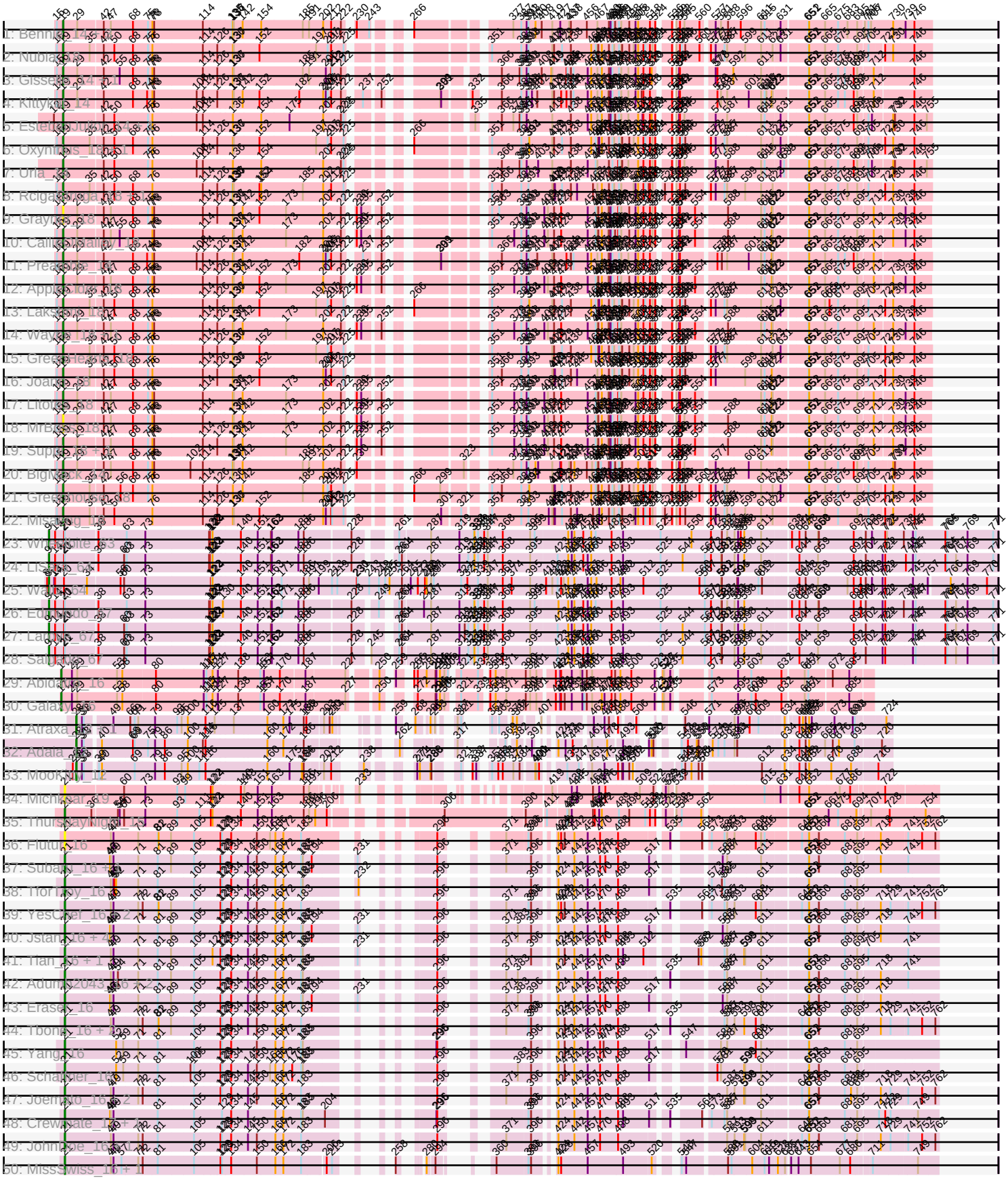
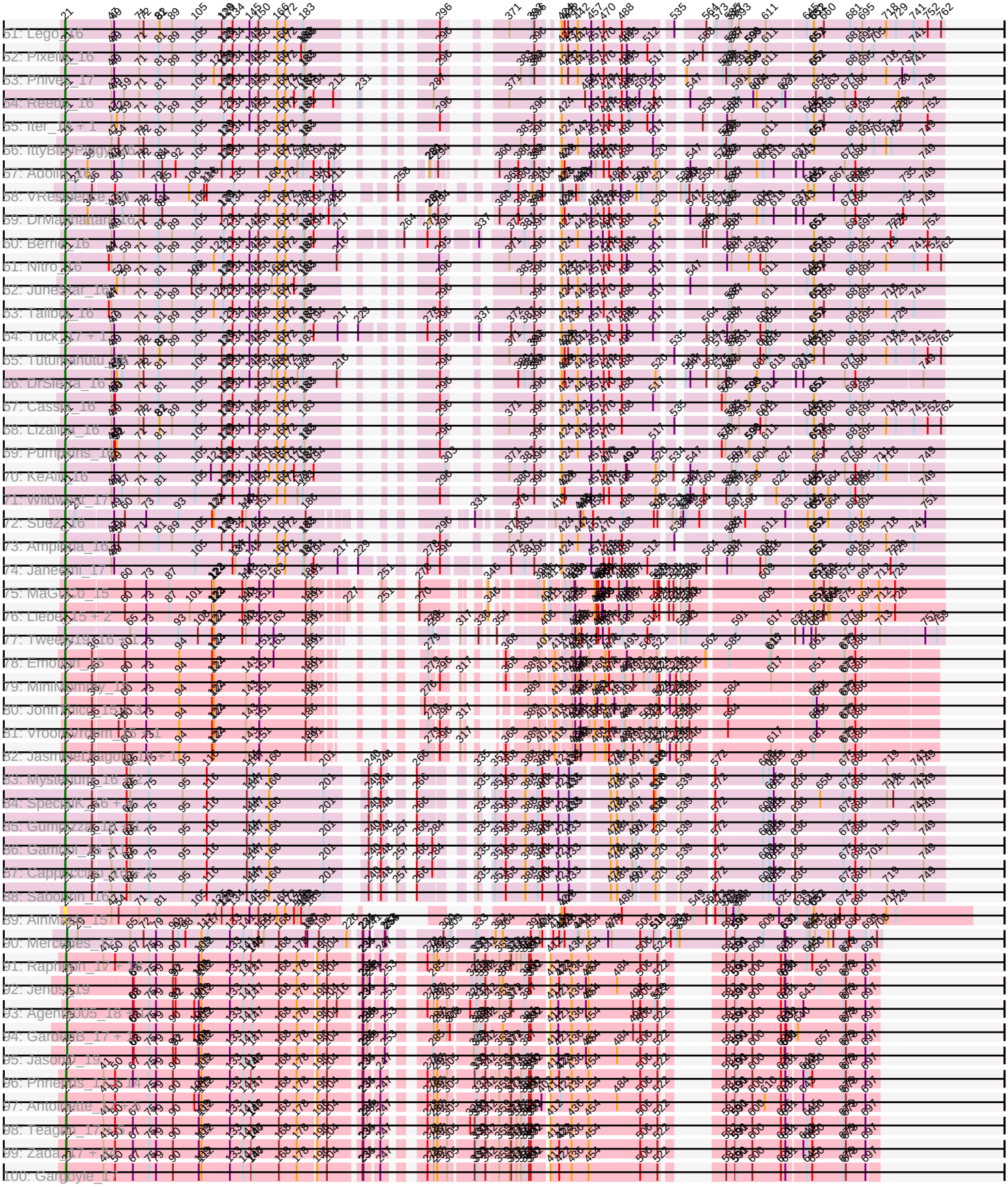
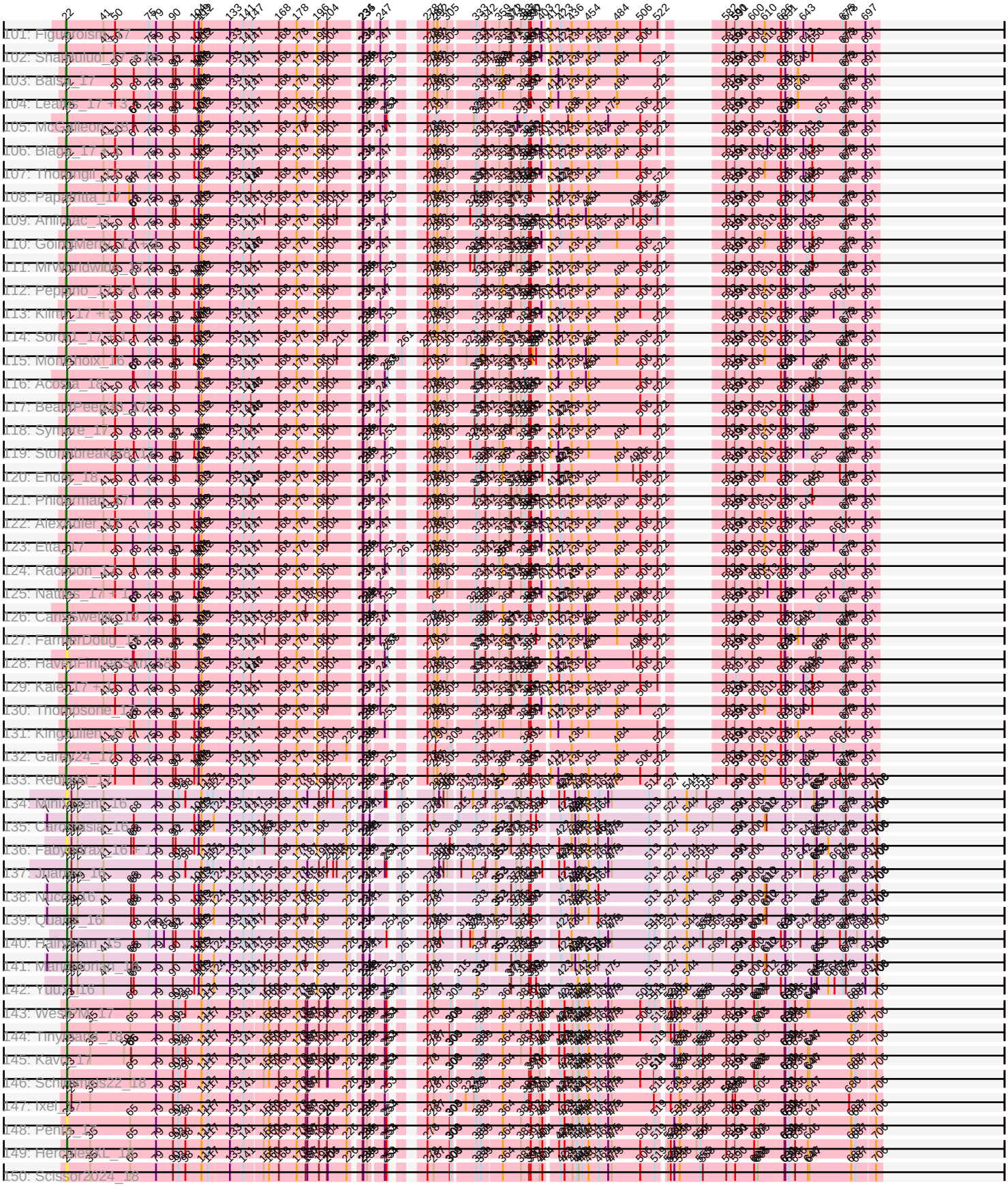
Pham 347095



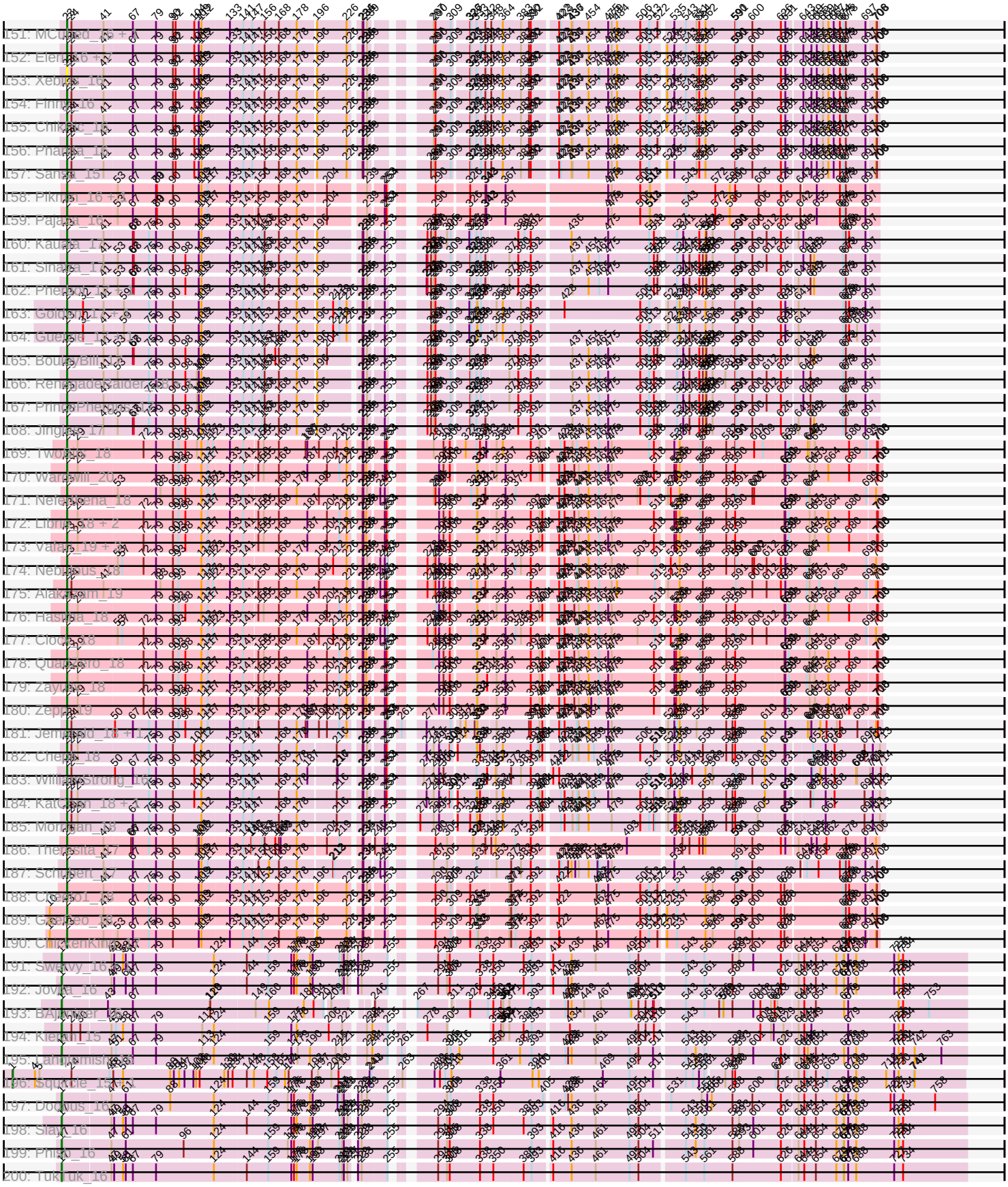
Pham 347095



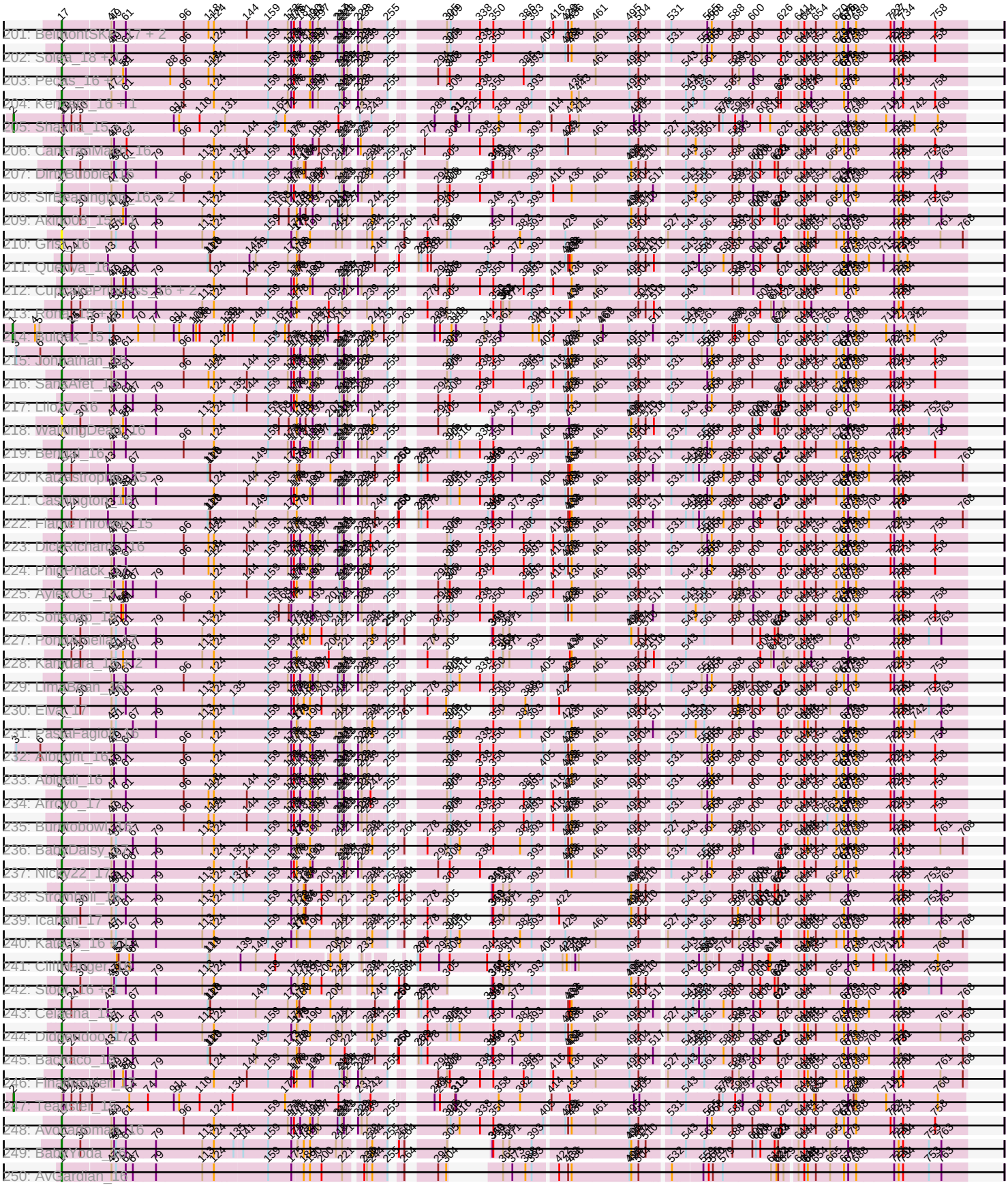
Pham 347095



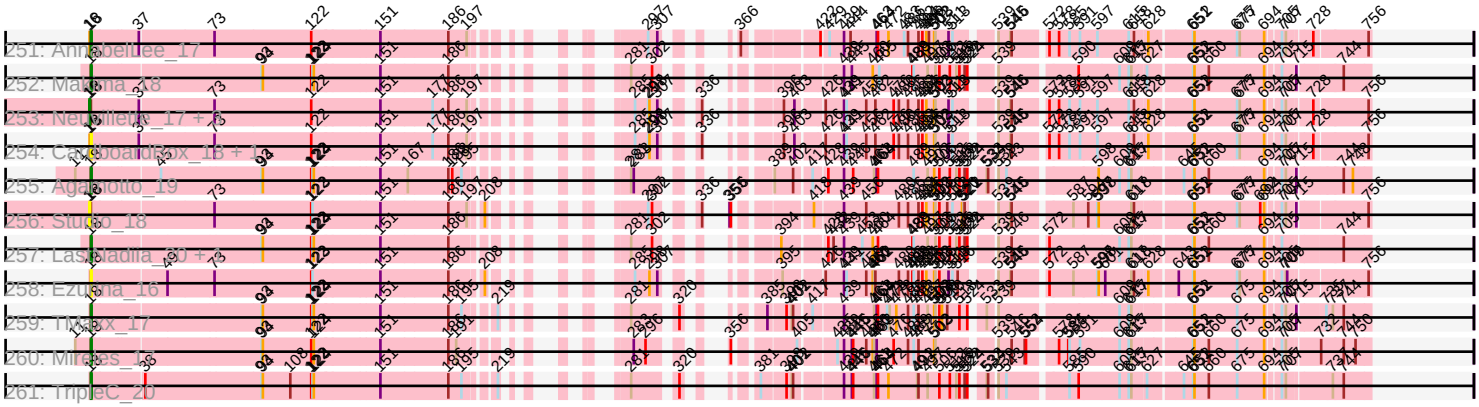
Pham 347095



Pham 347095



Pham 347095


251: Annabelllee_17
252: Mahina_18
253: Nellielly_17 + 6
254: Cardboardbox_18 + 1
255: Agamotto_19
256: Stucco_18
257: Lasmadilla_20 + 1
258: Ezusha_16
259: Tibbix_17
260: Mirabos_16
261: TripleC_20

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 347095 Report

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

Pham number 347095 has 450 members, 40 are drafts.

Phages represented in each track:
- Track 1 : Bennie_14, HeadNerd_14, Huckleberry_14, Moki_14
- Track 2 : Nubia_18
- Track 3 : Gisselle_14, DreamTeam_14
- Track 4 : Kittykat_14
- Track 5 : EstebanJulior_14, MamaPearl_14
- Track 6 : Oxynfrius_18, Albanese_18
- Track 7 : Urla_14
- Track 8 : RcigaStruga_18, Huntingdon_18
- Track 9 : Graynor_18
- Track 10 : CallieOMalley_18
- Track 11 : Preamble_14
- Track 12 : AppleCider_18
- Track 13 : Lakshmi_18
- Track 14 : Wayne_18, PartyCup_18
- Track 15 : GreenHearts_18
- Track 16 : Joann_18
- Track 17 : Litotes_18
- Track 18 : MrBoss_18
- Track 19 : Suppi_18, Canowicakte_18
- Track 20 : BigMack_14
- Track 21 : Greenhouse_18
- Track 22 : Misaeng_18
- Track 23 : Wheelbite_63
- Track 24 : LiSara_64
- Track 25 : Waltz_64
- Track 26 : Edmundo_67
- Track 27 : Laroye_67
- Track 28 : Salgado_67
- Track 29 : Abidatro_16
- Track 30 : Galaxy_16
- Track 31 : Atraxa_12, Sputnik_12
- Track 32 : Adaia_12
- Track 33 : MooKitty_12
- Track 34 : Michkear_19
- Track 35 : ThursdayNight_15
- Track 36 : Flutur_16
- Track 37 : Subaru_16, Elezi_16

• Track 38 : TforTroy_16
• Track 39 : YesChef_16, Powerpuff_16, AGrandiflora_16
• Track 40 : Jstan_16, London_16, Niobe_16, Skelbel_16, Asa16_16
• Track 41 : Tian_16, Amyev_16
• Track 42 : Adumb2043_16, Turab_16, AEgle_16
• Track 43 : Eraser_16
• Track 44 : Tbone_16, Mudpuppy_16, Warda_16
• Track 45 : Yang_16
• Track 46 : Schaffner_16
• Track 47 : Joemato_16, Simpson_18, Kaylissa_16
• Track 48 : Crewmate_17, ObiToo_16
• Track 49 : JohnDoe_16, Cyan_16
• Track 50 : MissSwiss_16, PandaPo_16
• Track 51 : Lego_16
• Track 52 : Pixelle_16
• Track 53 : Phives_17
• Track 54 : Reedo_16
• Track 55 : Iter_16, Ascela_16
• Track 56 : IttyBittyPiggy_16
• Track 57 : Adolin_16
• Track 58 : VResidence_16
• Track 59 : DrManhattan_16
• Track 60 : Berrie_16
• Track 61 : Nitro_16
• Track 62 : JuneStar_16
• Track 63 : Tallboi_16
• Track 64 : Tuck_17, Community_16
• Track 65 : Tutumahutu_16
• Track 66 : DrSierra_16
• Track 67 : Cassia_16
• Track 68 : Lizalica_16
• Track 69 : Pumpkins_16
• Track 70 : KeAlii_16
• Track 71 : Wildwest_17
• Track 72 : Sue2_16
• Track 73 : Amploria_16
• Track 74 : Janeemi_17
• Track 75 : MaGuCo_15
• Track 76 : Liebe_15, IUFootball_15, Maureen_15
• Track 77 : Tweety19_16, Snek_16
• Track 78 : Emotion_15
• Track 79 : MiniMommy_15
• Track 80 : JohnThicc_15, FiveHead_15, Origami_15, LadyAstra_15
• Track 81 : VroomVroom_15, AceofSpades_15
• Track 82 : JasmineDragon_15, ShakeItOph_15
• Track 83 : Mysterium_16, Beaupre_16, Giorgio_16
• Track 84 : SpecialK_16, Halsey_16, Ashes_16, RockScotty_16, Moss_16
• Track 85 : Gumpizza_16, Stuu_16
• Track 86 : Gambol_16, Donkey_16
• Track 87 : Cappuccino_16, Kalimba_16, Sooty_16
• Track 88 : Sabourin_16
• Track 89 : AinMach_15
• Track 90 : Mercedes_17

• Track 91 : Rapheph_17, Pherferi_17, Delphidian_17, Inventa_17, Stanktossa_17, Merida02_17, Byron23_17, NickSell_17, Martin_18, Kurt1_17, Dothraki_17, MillyPhilly_17, Phireproof_17, Shee_17, PhredFlintston_17, SolidSnake_17, TatarkaPM_17, TinSulphur_17, ParleG_17
• Track 92 : Jenos_19
• Track 93 : Agente005_18, Aleyra_18
• Track 94 : GardenB_17, GoneGirl_18
• Track 95 : JasonD_19
• Track 96 : Phriends_17, KannH_17, Jerbirus_17, OldNelly_17, Winzigespinne_17, AranulaLuti_17, MaeLinda_17, Exploradora_17, Riyhil_17, Kouch_17, SoilGremlin_17, Rog141_17, Gubbabump_17, CoraRita_17, HankSprout_18
• Track 97 : Antoinette_17, Superfresh_17, Robinson_17, Renzie_17, Dave_17, Peep_17
• Track 98 : Teagan_17, Ludgate_17, Bandik_17, SJay_17, StingRay_17, Nagem_17
• Track 99 : Zada_17, JeriBeth_17, Gershwin_17, Aubergine_17, Espinosa_17, Ilzat_17, Sedgewig_17, Christoph_17, KellyGreen_17, TeddyBear_17, JasperRussell_17, RosieMae_17, Oats_17, Tenda_17, Chako_17, Janus167_17, ManRay_17, Asta_17, StirfryIV_17, Clancy_17, HanSolo_17, Benjalauren_17, Bonino_17, Duocatuli_17, HungryHenry_17
• Track 100 : Gargoyle_17
• Track 101 : Figueroism_17
• Track 102 : ShaiHulud_17, Lovelyunicorn_17, BonesMcCoy_17, Velene_17, Oxtober96_17, Knox_17, Vispistious_17, Convict_17, PuppyEggo_17, Ioannes_17, WildNOut_17, Den3_17, Strathdee_17, AxiPup_17, Greys_17, Raptor_17
• Track 103 : Balsa_17
• Track 104 : Leafus_17, BeeBee8_18, Hamlet_17, PhillyPhantom_17
• Track 105 : McGalleon_18
• Track 106 : Blage_17, BigRedClifford_17
• Track 107 : Thorongil_17
• Track 108 : Papafritta_17
• Track 109 : Anilorac_17
• Track 110 : GoingMerry_17, Alyxandracam_17
• Track 111 : MrWorldwide_17
• Track 112 : Peppino_17, Schnapsidee_17
• Track 113 : Klimt_17, SonOfLevi_17, Gelo_17, Chamuel_17, Calix_17, Erla_17
• Track 114 : Soror1_17, Etna_17
• Track 115 : MonChoix_16
• Track 116 : Acosta_18
• Track 117 : BeautPeep30_17
• Track 118 : Symere_17
• Track 119 : Stormbreaker8_17
• Track 120 : Endor_18
• Track 121 : Phiderman_17
• Track 122 : AlexAdler_17
• Track 123 : Etta_17
• Track 124 : Raccoon_17
• Track 125 : Nattles_17, Baines_17
• Track 126 : CarisSwetlik_19
• Track 127 : FarmerDoug_17
• Track 128 : HavenFinLeoSun_18
• Track 129 : Kale_17, Pocket_17
• Track 130 : Thompsone_17
• Track 131 : KingJulien_17

• Track 132 : Garey24_17
• Track 133 : Redfield_17
• Track 134 : MiniVolent_16
• Track 135 : Carostasia_16
• Track 136 : Fabyndrax_16, Cidela_16
• Track 137 : Juanyo_16
• Track 138 : Nucci_16
• Track 139 : Quartz_16
• Track 140 : HairyMan_15
• Track 141 : Mandalorian_16
• Track 142 : YuuY_16
• Track 143 : WestPM_17
• Track 144 : Tinyman4_18
• Track 145 : Kavo_17
• Track 146 : Schimmels22_18
• Track 147 : Ixel_17
• Track 148 : Penta_17
• Track 149 : HerculesXL_18
• Track 150 : Scissor2024_18
• Track 151 : MCubed_16, Zenitsu_16
• Track 152 : Eleri_16, PSirce_16, Orpington_16, Andromedas_16, Shamu_16, ColaCorta_16, Saratos_16, Glamour_15
• Track 153 : Xebius_16
• Track 154 : Finny_16
• Track 155 : ChikPic_16
• Track 156 : Phanita_16
• Track 157 : Sansa_15
• Track 158 : Pikmin_16, Casey_16
• Track 159 : Pajaza_16
• Track 160 : Kauala_17
• Track 161 : Sinatra_17
• Track 162 : Pherbot_17, Bustleton_17
• Track 163 : Golden_17, Lucky3_17
• Track 164 : Guetzie_17, SirVictor_17
• Track 165 : BouleyBill_17
• Track 166 : RenegadeRaider_18, Koji_17
• Track 167 : PrincePhergus_17
• Track 168 : Jingles_17
• Track 169 : TwoBits_18
• Track 170 : Wardwill_20
• Track 171 : Neferthena_18
• Track 172 : Librie_18, Fulton_18, CaptainRex_18
• Track 173 : Vafari_19, GreenIvy_18, BaronJohn_18, LilTerminator_18
• Track 174 : Nebulous_18
• Track 175 : Alakazam_19
• Track 176 : Hasitha_18
• Track 177 : Clock_18
• Track 178 : QuadZero_18
• Track 179 : Zayuliv_18
• Track 180 : Zepp_19
• Track 181 : Jemerald_18, Juicer_18
• Track 182 : Chepli_18
• Track 183 : WilliamStrong_16

• Track 184 : KatChan_18, Luna18_18
• Track 185 : Morrigan_18
• Track 186 : Theresita_17
• Track 187 : Schubert_17
• Track 188 : Cheeto1_18
• Track 189 : GaeCeo_18
• Track 190 : ChickenKing_17
• Track 191 : Swervy_16, SarBear_16
• Track 192 : Jovita_16
• Track 193 : BAjuniper_16
• Track 194 : Kieran_15
• Track 195 : Lahqtemish_16
• Track 196 : Squircle_15, Olliecat_15
• Track 197 : Doobus_16
• Track 198 : Slay_16
• Track 199 : Phisb_16
• Track 200 : TukTuk_16
• Track 201 : BelmontSKP_17, CroZenni_16, AnnaLie_17
• Track 202 : Solea_18, Milomuff_17
• Track 203 : Pecas_16, Eula_16, QMacho_17
• Track 204 : Kenzers_16, Lynlen_16
• Track 205 : Shayna_15, SunnyD_15
• Track 206 : CanFranMach_16
• Track 207 : DirtyBubble_16
• Track 208 : SirBeanington_16, BubbaBear_16, Albedo_16
• Track 209 : Akino08_15, Loviatar_16
• Track 210 : Grist_16
• Track 211 : Quenya_16
• Track 212 : CupcakePrincess_16, Jabb_16, MsUbiquitous_16
• Track 213 : Rona_15, Dismas_15
• Track 214 : Buldak_15
• Track 215 : Johnathan_16
• Track 216 : SansAfet_16
• Track 217 : Lilo27_16
• Track 218 : WalkingDead_16
• Track 219 : Bengal_16
• Track 220 : Katzastrophic_15
• Track 221 : Cashington_16
• Track 222 : FlameThrower_15
• Track 223 : DickRichards_16
• Track 224 : PhigPhack_17
• Track 225 : AylexOG_17
• Track 226 : Softsoap_15
• Track 227 : PondAmelia_17
• Track 228 : Kamdara_15, Sharkboy_15, ChiliPepper_15
• Track 229 : LimaBean_16
• Track 230 : Elva_17
• Track 231 : PastaFagioli_16
• Track 232 : Albright_16
• Track 233 : Abigail_16
• Track 234 : Arroyo_17
• Track 235 : Burritobowl_16
• Track 236 : BabyDaisy_17

• Track 237 : Nicky22_17
• Track 238 : Stromboli_16
• Track 239 : Icarian_17
• Track 240 : Kate33_16, IndyLu_16
• Track 241 : CliffHanger_16
• Track 242 : Stoor_16, SanaSana_17
• Track 243 : Celaena_15
• Track 244 : Didgeridoo_17
• Track 245 : Bachaco_15
• Track 246 : Finalfrontier_17
• Track 247 : Teagster_15
• Track 248 : Avocadoman_16
• Track 249 : BabyYoda_16
• Track 250 : AvGardian_16
• Track 251 : AnnabelLee_17
• Track 252 : Makima_18
• Track 253 : Neuvillette_17, Roberts_17, Gerri43_17, ChipsNGuac_17
• Track 254 : CardboardBox_18, ChamoyPickle_18
• Track 255 : Agamotto_19
• Track 256 : Studio_18
• Track 257 : LastNadiia_20, Audell_20
• Track 258 : Ezurina_16
• Track 259 : TMaxx_17
• Track 260 : Mireles_17
• Track 261 : TripleC_20

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

The start number called the most often in the published annotations is 22, it was called in 123 of the 410 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AlexAdler_17, Alyxandracam_17, Antoinette_17, AranulaLuti_17, Asta_17, Aubergine_17, AxiPup_17, Baines_17, Balsa_17, Bandik_17, BeautPeep30_17, BeeBee8_18, Benjalauren_17, BigRedClifford_17, Blage_17, BonesMcCoy_17, Bonino_17, Byron23_17, Calix_17, Chako_17, Chamuel_17, Christoph_17, Clancy_17, Convict_17, CoraRita_17, Dave_17, Delphidian_17, Den3_17, Dothraki_17, Duocatuli_17, Endor_18, Erla_17, Espinosa_17, Etna_17, Etta_17, Exploradora_17, Figueroism_17, Garey24_17, Gargoyle_17, Gelo_17, Gershwin_17, GoingMerry_17, Greys_17, Gubbabump_17, Hamlet_17, HanSolo_17, HankSprout_18, HungryHenry_17, Ilzat_17, Inventa_17, Ioannes_17, Janus167_17, JasperRussell_17, Jerbirus_17, JeriBeth_17, Kale_17, KannH_17, KellyGreen_17, KingJulien_17, Klimt_17, Knox_17, Kouch_17, Kurt1_17, Leafus_17, Lovelyunicorn_17, Ludgate_17, MaeLinda_17, ManRay_17, Martin_18, Merida02_17, MillyPhilly_17, MonChoix_16, MrWorldwide_17, Nagem_17, Nattles_17, NickSell_17, Oats_17, OldNelly_17, Oxtober96_17, Papafritta_17, ParleG_17, Peep_17, Peppino_17, Pherferi_17, Phiderman_17, PhillyPhantom_17, Phireproof_17, PhredFlintston_17, Phriends_17, Pocket_17, PuppyEggo_17, Raccoon_17, Rapheph_17, Raptor_17, Redfield_17, Renzie_17, Riyhil_17, Robinson_17, Rog141_17, RosieMae_17, SJay_17, Schnapsidee_17, Sedgewig_17,

ShaiHulud_17, Shee_17, SoilGremlin_17, SolidSnake_17, SonOfLevi_17, Soror1_17, Stanktossa_17, StingRay_17, StirfryIV_17, Stormbreaker8_17, Strathdee_17, Superfresh_17, Symere_17, TatarkaPM_17, Teagan_17, TeddyBear_17, Tenda_17, Thompsone_17, Thorongil_17, TinSulphur_17, Velene_17, Vispistious_17, WildNOut_17, Winzigespinne_17, Zada_17,

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

Genes that do not have the "Most Annotated" start:
• AEgle_16, AGrandiflora_16, Abidatro_16, Abigail_16, AceofSpades_15, Acosta_18, Adaia_12, Adolin_16, Adumb2043_16, Agamotto_19, Agente005_18, AinMach_15, Akino08_15, Alakazam_19, Albanese_18, Albedo_16, Albright_16, Aleyra_18, Amploria_16, Amyev_16, Andromedas_16, Anilorac_17, AnnaLie_17, AnnabelLee_17, AppleCider_18, Arroyo_17, Asa16_16, Ascela_16, Ashes_16, Atraxa_12, Audell_20, AvGardian_16, Avocadoman_16, AylexOG_17, BAjuniper_16, BabyDaisy_17, BabyYoda_16, Bachaco_15, BaronJohn_18, Beaupre_16, BelmontSKP_17, Bengal_16, Bennie_14, Berrie_16, BigMack_14, BouleyBill_17, BubbaBear_16, Buldak_15, Burritobowl_16, Bustleton_17, CallieOMalley_18, CanFranMach_16, Canowicakte_18, Cappuccino_16, CaptainRex_18, CardboardBox_18, CarisSwetlik_19, Carostasia_16, Casey_16, Cashington_16, Cassia_16, Celaena_15, ChamoyPickle_18, Cheeto1_18, Chepli_18, ChickenKing_17, ChikPic_16, ChiliPepper_15, ChipsNGuac_17, Cidela_16, CliffHanger_16, Clock_18, ColaCorta_16, Community_16, Crewmate_17, CroZenni_16, CupcakePrincess_16, Cyan_16, DickRichards_16, Didgeridoo_17, DirtyBubble_16, Dismas_15, Donkey_16, Doobus_16, DrManhattan_16, DrSierra_16, DreamTeam_14, Edmundo_67, Eleri_16, Elezi_16, Elva_17, Emotion_15, Eraser_16, EstebanJulior_14, Eula_16, Ezurina_16, Fabyndrax_16, FarmerDoug_17, Finalfrontier_17, Finny_16, FiveHead_15, FlameThrower_15, Flutur_16, Fulton_18, GaeCeo_18, Galaxy_16, Gambol_16, GardenB_17, Gerri43_17, Giorgio_16, Gisselle_14, Glamour_15, Golden_17, GoneGirl_18, Graynor_18, GreenHearts_18, GreenIvy_18, Greenhouse_18, Grist_16, Guetzie_17, Gumpizza_16, HairyMan_15, Halsey_16, Hasitha_18, HavenFinLeoSun_18, HeadNerd_14, HerculesXL_18, Huckleberry_14, Huntingdon_18, IUFootball_15, Icarian_17, IndyLu_16, Iter_16, IttyBittyPiggy_16, Ixel_17, Jabb_16, Janeemi_17, JasmineDragon_15, JasonD_19, Jemerald_18, Jenos_19, Jingles_17, Joann_18, Joemato_16, JohnDoe_16, JohnThicc_15, Johnathan_16, Jovita_16, Jstan_16, Juanyo_16, Juicer_18, JuneStar_16, Kalimba_16, Kamdara_15, KatChan_18, Kate33_16, Katzastrophic_15, Kauala_17, Kavo_17, Kaylissa_16, KeAlii_16, Kenzers_16, Kieran_15, Kittykat_14, Koji_17, LadyAstra_15, Lahqtemish_16, Lakshmi_18, Laroye_67, LastNadiia_20, Lego_16, LiSara_64, Librie_18, Liebe_15, LilTerminator_18, Lilo27_16, LimaBean_16, Litotes_18, Lizalica_16, London_16, Loviatar_16, Lucky3_17, Luna18_18, Lynlen_16, MCubed_16, MaGuCo_15, Makima_18, MamaPearl_14, Mandalorian_16, Maureen_15, McGalleon_18, Mercedes_17, Michkear_19, Milomuff_17, MiniMommy_15, MiniVolent_16, Mireles_17, Misaeng_18, MissSwiss_16, Moki_14, MooKitty_12, Morrigan_18, Moss_16, MrBoss_18, MsUbiquitous_16, Mudpuppy_16, Mysterium_16, Nebulous_18, Neferthena_18, Neuvillette_17, Nicky22_17, Niobe_16, Nitro_16, Nubia_18, Nucci_16, ObiToo_16, Olliecat_15, Origami_15, Orpington_16, Oxynfrius_18, PSirce_16, Pajaza_16, PandaPo_16, PartyCup_18, PastaFagioli_16, Pecas_16, Penta_17, Phanita_16, Pherbot_17, PhigPhack_17, Phisb_16, Phives_17, Pikmin_16, Pixelle_16, PondAmelia_17, Powerpuff_16, Preamble_14, PrincePhergus_17, Pumpkins_16, QMacho_17, QuadZero_18, Quartz_16, Quenya_16, RcigaStruga_18, Reedo_16,

RenegadeRaider_18, Roberts_17, RockScotty_16, Rona_15, Sabourin_16, Salgado_67, SanaSana_17, SansAfet_16, Sansa_15, SarBear_16, Saratos_16, Schaffner_16, Schimmels22_18, Schubert_17, Scissor2024_18, ShakeItOph_15, Shamu_16, Sharkboy_15, Shayna_15, Simpson_18, Sinatra_17, SirBeanington_16, SirVictor_17, Skelbel_16, Slay_16, Snek_16, Softsoap_15, Solea_18, Sooty_16, SpecialK_16, Sputnik_12, Squircle_15, Stoor_16, Stromboli_16, Studio_18, Stuu_16, Subaru_16, Sue2_16, SunnyD_15, Suppi_18, Swervy_16, TMaxx_17, Tallboi_16, Tbone_16, Teagster_15, TforTroy_16, Theresita_17, ThursdayNight_15, Tian_16, Tinyman4_18, TripleC_20, Tuck_17, TukTuk_16, Turab_16, Tutumahutu_16, Tweety19_16, TwoBits_18, Urla_14, VResidence_16, Vafari_19, VroomVroom_15, WalkingDead_16, Waltz_64, Warda_16, Wardwill_20, Wayne_18, WestPM_17, Wheelbite_63, Wildwest_17, WilliamStrong_16, Xebius_16, Yang_16, YesChef_16, YuuY_16, Zayuliv_18, Zenitsu_16, Zepp_19,

Summary by start number:

Start 1:
• Found in 3 of 450 (0.7%) of genes in pham
• Manual Annotations of this start: 3 of 410
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Buldak_15 (EB), Olliecat_15 (EB), Squircle_15 (EB),

Start 2:
• Found in 3 of 450 (0.7%) of genes in pham
• Manual Annotations of this start: 3 of 410
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shayna_15 (EB), SunnyD_15 (EB), Teagster_15 (EB),

Start 9:
• Found in 6 of 450 (1.3%) of genes in pham
• Manual Annotations of this start: 6 of 410
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Edmundo_67 (AL), Laroye_67 (AL), LiSara_64 (AL), Salgado_67 (AL), Waltz_64 (AL), Wheelbite_63 (AL),

Start 16:
• Found in 8 of 450 (1.8%) of genes in pham
• Manual Annotations of this start: 3 of 410
• Called 62.5% of time when present
• Phage (with cluster) where this start called: ChipsNGuac_17 (FR), Gerri43_17 (FR), Neuvillette_17 (FR), Roberts_17 (FR), Studio_18 (FR),

Start 17:
• Found in 78 of 450 (17.3%) of genes in pham
• Manual Annotations of this start: 71 of 410
• Called 96.2% of time when present
• Phage (with cluster) where this start called: Abidatro_16 (AS1), Abigail_16 (EB), Akino08_15 (EB), Albedo_16 (EB), Albright_16 (EB), AnnaLie_17 (EB), Arroyo_17 (EB), AvGardian_16 (EB), Avocadoman_16 (EB), AylexOG_17 (EB), BAjuniper_16 (EB), BabyDaisy_17 (EB), BabyYoda_16 (EB), Bachaco_15 (EB), BelmontSKP_17 (EB), Bengal_16 (EB), BubbaBear_16 (EB), Burritobowl_16 (EB), CanFranMach_16

(EB), Cashington_16 (EB), Celaena_15 (EB), ChiliPepper_15 (EB), CliffHanger_16 (EB), CroZenni_16 (EB), CupcakePrincess_16 (EB), DickRichards_16 (EB), Didgeridoo_17 (EB), DirtyBubble_16 (EB), Dismas_15 (EB), Doobus_16 (EB), Elva_17 (EB), Eula_16 (EB), Finalfrontier_17 (EB), FlameThrower_15 (EB), Galaxy_16 (AS1), Grist_16 (EB), Icarian_17 (EB), IndyLu_16 (EB), Jabb_16 (EB), Johnathan_16 (EB), Jovita_16 (EB), Kamdara_15 (EB), Kate33_16 (EB), Katzastrophic_15 (EB), Kenzers_16 (EB), Kieran_15 (EB), Lahqtemish_16 (EB), Lilo27_16 (EB), LimaBean_16 (EB), Loviatar_16 (EB), Lynlen_16 (EB), Milomuff_17 (EB), MsUbiquitous_16 (EB), Nicky22_17 (EB), PastaFagioli_16 (EB), Pecas_16 (EB), PhigPhack_17 (EB), Phisb_16 (EB), PondAmelia_17 (EB), QMacho_17 (EB), Quenya_16 (EB), Rona_15 (EB), SanaSana_17 (EB), SansAfet_16 (EB), SarBear_16 (EB), Sharkboy_15 (EB), SirBeanington_16 (EB), Slay_16 (EB), Softsoap_15 (EB), Solea_18 (EB), Stoor_16 (EB), Stromboli_16 (EB), Swervy_16 (EB), TukTuk_16 (EB), WalkingDead_16 (EB),

Start 18:
• Found in 16 of 450 (3.6%) of genes in pham
• Manual Annotations of this start: 8 of 410
• Called 68.8% of time when present
• Phage (with cluster) where this start called: Agamotto_19 (FR), AnnabelLee_17 (FR), Audell_20 (FR), CardboardBox_18 (FR), ChamoyPickle_18 (FR), Ezurina_16 (FR), LastNadiia_20 (FR), Makima_18 (FR), Mireles_17 (FR), TMaxx_17 (FR), TripleC_20 (FR),

Start 19:
• Found in 34 of 450 (7.6%) of genes in pham
• Manual Annotations of this start: 29 of 410
• Called 91.2% of time when present
• Phage (with cluster) where this start called: Albanese_18 (AK), AppleCider_18 (AK), Bennie_14 (AK), BigMack_14 (AK), CallieOMalley_18 (AK), Canowicakte_18 (AK), DreamTeam_14 (AK), EstebanJulior_14 (AK), Gisselle_14 (AK), Graynor_18 (AK), GreenHearts_18 (AK), Greenhouse_18 (AK), HeadNerd_14 (AK), Huckleberry_14 (AK), Huntingdon_18 (AK), Joann_18 (AK), Kittykat_14 (AK), Lakshmi_18 (AK), Litotes_18 (AK), MamaPearl_14 (AK), Misaeng_18 (AK), Moki_14 (AK), MrBoss_18 (AK), Nubia_18 (AK), Oxynfrius_18 (AK), PartyCup_18 (AK), Preamble_14 (AK), RcigaStruga_18 (AK), Suppi_18 (AK), Urla_14 (AK), Wayne_18 (AK),

Start 21:
• Found in 98 of 450 (21.8%) of genes in pham
• Manual Annotations of this start: 80 of 410
• Called 94.9% of time when present
• Phage (with cluster) where this start called: AEgle_16 (AZ1), AGrandiflora_16 (AZ1), AceofSpades_15 (AZ4), Adolin_16 (AZ1), Adumb2043_16 (AZ1), AinMach_15 (AZ7), Amploria_16 (AZ1), Amyev_16 (AZ1), Asa16_16 (AZ1), Ascela_16 (AZ1), Ashes_16 (AZ5), Beaupre_16 (AZ5), Berrie_16 (AZ1), Cappuccino_16 (AZ5), Cassia_16 (AZ1), Community_16 (AZ1), Crewmate_17 (AZ1), Cyan_16 (AZ1), Donkey_16 (AZ5), DrManhattan_16 (AZ1), DrSierra_16 (AZ1), Elezi_16 (AZ1), Emotion_15 (AZ4), Eraser_16 (AZ1), FiveHead_15 (AZ4), Flutur_16 (AZ), Gambol_16 (AZ5), Giorgio_16 (AZ5), Gumpizza_16 (AZ5), Halsey_16 (AZ5), IUFootball_15 (AZ2), Iter_16 (AZ1), IttyBittyPiggy_16 (AZ1), Janeemi_17 (AZ1), JasmineDragon_15 (AZ4), Joemato_16 (AZ1), JohnDoe_16 (AZ1), JohnThicc_15 (AZ4), Jstan_16 (AZ1), JuneStar_16 (AZ1), Kalimba_16 (AZ5), Kaylissa_16 (AZ1), KeAlii_16 (AZ1), LadyAstra_15 (AZ4), Lego_16 (AZ1), Liebe_15 (AZ2), Lizalica_16 (AZ1), London_16 (AZ1), MaGuCo_15

(AZ2), Maureen_15 (AZ2), Michkear_19 (AZ), MiniMommy_15 (AZ4), MissSwiss_16 (AZ1), Moss_16 (AZ5), Mudpuppy_16 (AZ1), Mysterium_16 (AZ5), Niobe_16 (AZ1), Nitro_16 (AZ1), ObiToo_16 (AZ1), Origami_15 (AZ4), PandaPo_16 (AZ1), Phives_17 (AZ1), Pixelle_16 (AZ1), Powerpuff_16 (AZ1), Pumpkins_16 (AZ1), Reedo_16 (AZ1), RockScotty_16 (AZ5), Sabourin_16 (AZ5), Schaffner_16 (AZ1), ShakeItOph_15 (AZ4), Simpson_18 (AZ1), Skelbel_16 (AZ1), Snek_16 (AZ3), Sooty_16 (AZ5), SpecialK_16 (AZ5), Stuu_16 (AZ5), Subaru_16 (AZ1), Sue2_16 (AZ1), Tallboi_16 (AZ1), Tbone_16 (AZ1), TforTroy_16 (AZ1), ThursdayNight_15 (AZ), Tian_16 (AZ1), Tuck_17 (AZ1), Turab_16 (AZ1), Tutumahutu_16 (AZ1), Tweety19_16 (AZ3), VResidence_16 (AZ1), VroomVroom_15 (AZ4), Warda_16 (AZ1), Wildwest_17 (AZ1), Yang_16 (AZ1), YesChef_16 (AZ1),

Start 22:
• Found in 128 of 450 (28.4%) of genes in pham
• Manual Annotations of this start: 123 of 410
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AlexAdler_17 (EA1), Alyxandracam_17 (EA1), Antoinette_17 (EA1), AranulaLuti_17 (EA1), Asta_17 (EA1), Aubergine_17 (EA1), AxiPup_17 (EA1), Baines_17 (EA1), Balsa_17 (EA1), Bandik_17 (EA1), BeautPeep30_17 (EA1), BeeBee8_18 (EA1), Benjalauren_17 (EA1), BigRedClifford_17 (EA1), Blage_17 (EA1), BonesMcCoy_17 (EA1), Bonino_17 (EA1), Byron23_17 (EA1), Calix_17 (EA1), Chako_17 (EA1), Chamuel_17 (EA1), Christoph_17 (EA1), Clancy_17 (EA1), Convict_17 (EA1), CoraRita_17 (EA1), Dave_17 (EA1), Delphidian_17 (EA1), Den3_17 (EA1), Dothraki_17 (EA1), Duocatuli_17 (EA1), Endor_18 (EA1), Erla_17 (EA1), Espinosa_17 (EA1), Etna_17 (EA1), Etta_17 (EA1), Exploradora_17 (EA1), Figueroism_17 (EA1), Garey24_17 (EA1), Gargoyle_17 (EA1), Gelo_17 (EA1), Gershwin_17 (EA1), GoingMerry_17 (EA1), Greys_17 (EA1), Gubbabump_17 (EA1), Hamlet_17 (EA1), HanSolo_17 (EA1), HankSprout_18 (EA1), HungryHenry_17 (EA1), Ilzat_17 (EA1), Inventa_17 (EA1), Ioannes_17 (EA1), Janus167_17 (EA1), JasperRussell_17 (EA1), Jerbirus_17 (EA1), JeriBeth_17 (EA1), Kale_17 (EA1), KannH_17 (EA1), KellyGreen_17 (EA1), KingJulien_17 (EA1), Klimt_17 (EA1), Knox_17 (EA1), Kouch_17 (EA1), Kurt1_17 (EA1), Leafus_17 (EA1), Lovelyunicorn_17 (EA1), Ludgate_17 (EA1), MaeLinda_17 (EA1), ManRay_17 (EA1), Martin_18 (EA1), Merida02_17 (EA1), MillyPhilly_17 (EA1), MonChoix_16 (EA1), MrWorldwide_17 (EA1), Nagem_17 (EA1), Nattles_17 (EA1), NickSell_17 (EA1), Oats_17 (EA1), OldNelly_17 (EA1), Oxtober96_17 (EA1), Papafritta_17 (EA1), ParleG_17 (EA1), Peep_17 (EA1), Peppino_17 (EA1), Pherferi_17 (EA1), Phiderman_17 (EA1), PhillyPhantom_17 (EA1), Phireproof_17 (EA1), PhredFlintston_17 (EA1), Phriends_17 (EA1), Pocket_17 (EA1), PuppyEggo_17 (EA1), Raccoon_17 (EA1), Rapheph_17 (EA1), Raptor_17 (EA1), Redfield_17 (EA1), Renzie_17 (EA1), Riyhil_17 (EA1), Robinson_17 (EA1), Rog141_17 (EA1), RosieMae_17 (EA1), SJay_17 (EA1), Schnapsidee_17 (EA1), Sedgewig_17 (EA1), ShaiHulud_17 (EA1), Shee_17 (EA1), SoilGremlin_17 (EA1), SolidSnake_17 (EA1), SonOfLevi_17 (EA1), Soror1_17 (EA1), Stanktossa_17 (EA1), StingRay_17 (EA1), StirfryIV_17 (EA1), Stormbreaker8_17 (EA1), Strathdee_17 (EA1), Superfresh_17 (EA1), Symere_17 (EA1), TatarkaPM_17 (EA1), Teagan_17 (EA1), TeddyBear_17 (EA1), Tenda_17 (EA1), Thompsone_17 (EA1), Thorongil_17 (EA1), TinSulphur_17 (EA1), Velene_17 (EA1), Vispistious_17 (EA1), WildNOut_17 (EA1), Winzigespinne_17 (EA1), Zada_17 (EA1),

Start 23:
• Found in 91 of 450 (20.2%) of genes in pham
• Manual Annotations of this start: 80 of 410

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acosta_18 (EA1), Agente005_18 (EA1), Alakazam_19 (EA5), Aleyra_18 (EA1), Andromedas_16 (EA2), Anilorac_17 (EA1), BaronJohn_18 (EA5), BouleyBill_17 (EA4), Bustleton_17 (EA4), CaptainRex_18 (EA5), CarisSwetlik_19 (EA1), Carostasia_16 (EA10), Casey_16 (EA3), Cheeto1_18 (EA9), Chepli_18 (EA6), ChickenKing_17 (EA9), ChikPic_16 (EA2), Cidela_16 (EA10), Clock_18 (EA5), ColaCorta_16 (EA2), Eleri_16 (EA2), Fabyndrax_16 (EA10), FarmerDoug_17 (EA1), Finny_16 (EA2), Fulton_18 (EA5), GaeCeo_18 (EA9), GardenB_17 (EA1), Glamour_15 (EA2), Golden_17 (EA4), GoneGirl_18 (EA1), GreenIvy_18 (EA5), Guetzie_17 (EA4), HairyMan_15 (EA10), Hasitha_18 (EA5), HavenFinLeoSun_18 (EA1), HerculesXL_18 (EA11), Ixel_17 (EA11), JasonD_19 (EA1), Jemerald_18 (EA6), Jenos_19 (EA1), Jingles_17 (EA4), Juanyo_16 (EA10), Juicer_18 (EA6), KatChan_18 (EA6), Kauala_17 (EA4), Kavo_17 (EA11), Koji_17 (EA4), Librie_18 (EA5), LilTerminator_18 (EA5), Lucky3_17 (EA4), Luna18_18 (EA6), MCubed_16 (EA2), Mandalorian_16 (EA10), McGalleon_18 (EA1), Mercedes_17 (EA), MiniVolent_16 (EA10), Morrigan_18 (EA6), Nebulous_18 (EA5), Neferthena_18 (EA5), Nucci_16 (EA10), Orpington_16 (EA2), PSirce_16 (EA2), Pajaza_16 (EA3), Penta_17 (EA11), Phanita_16 (EA2), Pherbot_17 (EA4), Pikmin_16 (EA3), PrincePhergus_17 (EA4), QuadZero_18 (EA5), Quartz_16 (EA10), RenegadeRaider_18 (EA4), Sansa_15 (EA2), Saratos_16 (EA2), Schimmels22_18 (EA11), Schubert_17 (EA8), Scissor2024_18 (EA11), Shamu_16 (EA2), Sinatra_17 (EA4), SirVictor_17 (EA4), Theresita_17 (EA7), Tinyman4_18 (EA11), TwoBits_18 (EA5), Vafari_19 (EA5), Wardwill_20 (EA5), WestPM_17 (EA11), WilliamStrong_16 (EA6), Xebius_16 (EA2), YuuY_16 (EA10), Zayuliv_18 (EA5), Zenitsu_16 (EA2), Zepp_19 (EA5),

Start 28:
• Found in 4 of 450 (0.9%) of genes in pham
• Manual Annotations of this start: 4 of 410
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adaia_12 (AX), Atraxa_12 (AX), MooKitty_12 (AX), Sputnik_12 (AX),

Summary by clusters:

There are 25 clusters represented in this pham: FR, EA2, AS1, AK, EA, AL, EB, EA9, EA8, EA1, AX, EA3, AZ, EA5, EA4, EA7, EA6, EA11, EA10, AZ1, AZ2, AZ3, AZ4, AZ5, AZ7,

Info for manual annotations of cluster AK:
•Start number 19 was manually annotated 29 times for cluster AK.

Info for manual annotations of cluster AL:
•Start number 9 was manually annotated 6 times for cluster AL.

Info for manual annotations of cluster AS1:
•Start number 17 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AX:
•Start number 28 was manually annotated 4 times for cluster AX.

Info for manual annotations of cluster AZ:
•Start number 21 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 21 was manually annotated 49 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 21 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 21 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 21 was manually annotated 8 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 21 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster EA:
•Start number 23 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:
•Start number 22 was manually annotated 123 times for cluster EA1.
•Start number 23 was manually annotated 9 times for cluster EA1.

Info for manual annotations of cluster EA10:
•Start number 23 was manually annotated 7 times for cluster EA10.

Info for manual annotations of cluster EA11:
•Start number 23 was manually annotated 6 times for cluster EA11.

Info for manual annotations of cluster EA2:
•Start number 23 was manually annotated 14 times for cluster EA2.

Info for manual annotations of cluster EA3:
•Start number 23 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:
•Start number 23 was manually annotated 12 times for cluster EA4.

Info for manual annotations of cluster EA5:
•Start number 23 was manually annotated 16 times for cluster EA5.

Info for manual annotations of cluster EA6:
•Start number 23 was manually annotated 7 times for cluster EA6.

Info for manual annotations of cluster EA7:
•Start number 23 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA8:
•Start number 23 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:
•Start number 23 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster EB:
•Start number 1 was manually annotated 3 times for cluster EB.
•Start number 2 was manually annotated 3 times for cluster EB.
•Start number 17 was manually annotated 69 times for cluster EB.

Info for manual annotations of cluster FR:
•Start number 16 was manually annotated 3 times for cluster FR.
•Start number 18 was manually annotated 8 times for cluster FR.

Gene Information:

Gene: AEgle_16 Start: 10734, Stop: 13058, Start Num: 21
Candidate Starts for AEgle_16:
(Start: 21 @10734 has 80 MA's), (47, 10890), (49, 10899), (54, 10914), (71, 10980), (81, 11040), (89, 11085), (105, 11157), (128, 11238), (129, 11241), (134, 11271), (145, 11325), (150, 11355), (166, 11412), (172, 11436), (183, 11496), (185, 11502), (296, 11721), (371, 11817), (383, 11850), (424, 11937), (442, 11991), (457, 12033), (470, 12072), (488, 12132), (535, 12273), (585, 12402), (587, 12411), (611, 12522), (651, 12654), (652, 12657), (660, 12690), (681, 12768), (695, 12807), (718, 12867), (741, 12957),

Gene: AGrandiflora_16 Start: 10727, Stop: 13042, Start Num: 21
Candidate Starts for AGrandiflora_16:
(Start: 21 @10727 has 80 MA's), (47, 10883), (49, 10892), (71, 10973), (72, 10985), (81, 11033), (82, 11036), (89, 11078), (105, 11150), (128, 11231), (129, 11234), (134, 11264), (145, 11318), (150, 11348), (166, 11405), (172, 11429), (183, 11489), (296, 11714), (371, 11810), (393, 11873), (396, 11882), (424, 11930), (428, 11939), (432, 11951), (442, 11984), (457, 12026), (470, 12065), (488, 12125), (535, 12266), (564, 12341), (573, 12353), (585, 12395), (587, 12404), (593, 12428), (608, 12497), (611, 12515), (645, 12626), (651, 12647), (652, 12650), (660, 12683), (681, 12761), (695, 12800), (718, 12860), (729, 12890), (741, 12941), (752, 12986), (762, 13031),

Gene: Abidatro_16 Start: 10475, Stop: 12856, Start Num: 17
Candidate Starts for Abidatro_16:
(Start: 17 @10475 has 71 MA's), (25, 10511), (29, 10529), (53, 10661), (58, 10679), (80, 10784), (115, 10943), (117, 10952), (124, 10973), (127, 10991), (138, 11060), (153, 11135), (157, 11147), (170, 11201), (187, 11279), (227, 11402), (250, 11477), (259, 11498), (266, 11519), (272, 11531), (280, 11561), (294, 11591), (295, 11594), (298, 11606), (305, 11621), (309, 11633), (321, 11651), (339, 11708), (350, 11726), (358, 11744), (371, 11780), (390, 11837), (395, 11852), (401, 11873), (422, 11915), (427, 11930), (428, 11933), (439, 11969), (449, 11999), (451, 12005), (456, 12020), (461, 12038), (482, 12104), (486, 12116), (490, 12134), (500, 12167), (523, 12236), (526, 12245), (527, 12248), (535, 12269), (573, 12365), (595, 12452), (603, 12494), (632, 12593), (647, 12656), (651, 12668), (672, 12740), (685, 12788),

Gene: Abigail_16 Start: 10507, Stop: 13266, Start Num: 17
Candidate Starts for Abigail_16:
(Start: 17 @10507 has 71 MA's), (47, 10660), (49, 10666), (61, 10705), (96, 10891), (124, 10993), (159, 11164), (173, 11230), (175, 11242), (176, 11251), (181, 11266), (190, 11299), (193, 11308), (197, 11326), (217, 11386), (219, 11392), (221, 11401), (223, 11407), (229, 11431), (233, 11443), (239, 11461), (255, 11524), (305, 11638), (309, 11650), (338, 11746), (350, 11785), (405, 11944), (429, 11995), (432, 12004), (436, 12016), (461, 12094), (495, 12208), (504, 12235), (531, 12319), (565, 12430), (568, 12439), (588, 12505), (600, 12571), (626, 12667), (641, 12712), (644, 12727),

(654, 12766), (670, 12835), (675, 12853), (676, 12856), (679, 12868), (688, 12895), (722, 13009), (727, 13021), (734, 13051), (758, 13159),

Gene: AceofSpades_15 Start: 8983, Stop: 11226, Start Num: 21
Candidate Starts for AceofSpades_15:
(Start: 21 @8983 has 80 MA's), (36, 9070), (54, 9151), (60, 9172), (73, 9238), (94, 9343), (122, 9454), (124, 9460), (143, 9556), (151, 9598), (186, 9745), (279, 9880), (296, 9907), (317, 9940), (389, 10024), (401, 10063), (418, 10102), (429, 10126), (437, 10150), (439, 10159), (445, 10177), (455, 10204), (460, 10219), (472, 10255), (476, 10267), (489, 10312), (491, 10318), (509, 10378), (513, 10396), (521, 10420), (536, 10462), (539, 10465), (546, 10495), (584, 10603), (651, 10858), (655, 10870), (675, 10954), (677, 10960), (686, 10990),

Gene: Acosta_18 Start: 9628, Stop: 11892, Start Num: 23
Candidate Starts for Acosta_18:
(Start: 23 @9628 has 80 MA's), (67, 9832), (68, 9835), (75, 9883), (79, 9907), (90, 9964), (92, 9973), (107, 10045), (109, 10051), (112, 10060), (133, 10144), (141, 10189), (147, 10219), (168, 10309), (178, 10369), (196, 10426), (204, 10447), (234, 10543), (235, 10546), (239, 10558), (253, 10603), (255, 10612), (278, 10669), (292, 10702), (330, 10813), (333, 10819), (342, 10849), (359, 10888), (371, 10921), (372, 10927), (387, 10966), (412, 11029), (421, 11050), (436, 11095), (451, 11143), (454, 11152), (506, 11317), (522, 11371), (582, 11449), (590, 11479), (591, 11482), (600, 11530), (626, 11620), (630, 11632), (631, 11635), (654, 11713), (657, 11725), (675, 11788), (678, 11797), (697, 11854),

Gene: Adaia_12 Start: 6845, Stop: 8761, Start Num: 28
Candidate Starts for Adaia_12:
(Start: 28 @6845 has 4 MA's), (31, 6863), (33, 6869), (40, 6908), (68, 7010), (69, 7016), (75, 7058), (79, 7082), (86, 7115), (100, 7190), (114, 7241), (116, 7250), (160, 7445), (172, 7496), (186, 7565), (262, 7703), (317, 7790), (369, 7844), (382, 7865), (397, 7898), (424, 7922), (433, 7946), (440, 7967), (461, 8006), (478, 8045), (493, 8078), (517, 8114), (520, 8123), (522, 8129), (543, 8156), (548, 8177), (556, 8207), (558, 8213), (574, 8240), (579, 8255), (585, 8276), (593, 8309), (594, 8318), (634, 8459), (644, 8486), (648, 8507), (652, 8519), (665, 8570), (672, 8594), (676, 8615), (693, 8663), (720, 8732),

Gene: Adolin_16 Start: 10723, Stop: 12957, Start Num: 21
Candidate Starts for Adolin_16:
(Start: 21 @10723 has 80 MA's), (34, 10798), (47, 10879), (49, 10888), (57, 10915), (71, 10969), (72, 10981), (81, 11029), (84, 11041), (92, 11083), (105, 11146), (128, 11227), (129, 11230), (134, 11260), (150, 11344), (166, 11401), (172, 11425), (179, 11467), (183, 11485), (194, 11515), (206, 11554), (213, 11572), (280, 11644), (281, 11647), (294, 11665), (360, 11710), (380, 11767), (393, 11806), (396, 11815), (424, 11863), (428, 11872), (457, 11959), (461, 11971), (470, 11998), (476, 12016), (488, 12058), (520, 12160), (547, 12220), (575, 12292), (582, 12319), (585, 12328), (604, 12418), (609, 12439), (619, 12472), (637, 12526), (643, 12547), (677, 12679), (686, 12709), (749, 12892),

Gene: Adumb2043_16 Start: 10733, Stop: 13057, Start Num: 21
Candidate Starts for Adumb2043_16:
(Start: 21 @10733 has 80 MA's), (47, 10889), (49, 10898), (54, 10913), (71, 10979), (81, 11039), (89, 11084), (105, 11156), (128, 11237), (129, 11240), (134, 11270), (145, 11324), (150, 11354), (166, 11411), (172, 11435), (183, 11495), (185, 11501), (296, 11720), (371, 11816), (383, 11849), (424, 11936), (442, 11990), (457, 12032), (470, 12071), (488, 12131), (535, 12272), (585, 12401), (587, 12410), (611, 12521), (651, 12653), (652, 12656), (660, 12689), (681, 12767), (695, 12806), (718, 12866), (741, 12956),

Gene: Agamotto_19 Start: 12614, Stop: 14902, Start Num: 18
Candidate Starts for Agamotto_19:

(11, 12578), (Start: 18 @12614 has 8 MA's), (45, 12755), (93, 12974), (94, 12977), (122, 13088), (123, 13091), (124, 13094), (151, 13232), (167, 13289), (186, 13379), (188, 13388), (195, 13409), (281, 13550), (283, 13556), (389, 13715), (402, 13757), (417, 13790), (428, 13814), (439, 13850), (446, 13871), (461, 13913), (463, 13919), (464, 13922), (489, 14003), (497, 14030), (502, 14045), (506, 14057), (512, 14081), (515, 14096), (518, 14102), (522, 14114), (524, 14120), (533, 14141), (534, 14144), (539, 14156), (543, 14174), (598, 14363), (609, 14408), (615, 14429), (617, 14432), (645, 14528), (651, 14549), (652, 14552), (660, 14585), (694, 14702), (705, 14726), (707, 14735), (715, 14753), (744, 14843), (748, 14864),

Gene: Agente005_18 Start: 9923, Stop: 12184, Start Num: 23
Candidate Starts for Agente005_18:
(Start: 23 @9923 has 80 MA's), (67, 10127), (68, 10130), (75, 10178), (79, 10202), (90, 10259), (92, 10268), (104, 10331), (109, 10346), (112, 10355), (133, 10439), (141, 10484), (147, 10514), (168, 10604), (178, 10664), (196, 10721), (204, 10742), (216, 10775), (234, 10838), (235, 10841), (253, 10898), (278, 10964), (287, 10985), (292, 10997), (305, 11030), (326, 11093), (333, 11114), (342, 11144), (359, 11183), (371, 11216), (372, 11222), (387, 11261), (412, 11324), (421, 11345), (436, 11390), (451, 11438), (454, 11447), (498, 11588), (506, 11612), (519, 11657), (522, 11666), (582, 11744), (590, 11774), (591, 11777), (600, 11825), (626, 11915), (631, 11930), (643, 11972), (675, 12080), (678, 12089), (697, 12146),

Gene: AinMach_15 Start: 9852, Stop: 12212, Start Num: 21
Candidate Starts for AinMach_15:
(Start: 21 @9852 has 80 MA's), (47, 10008), (54, 10032), (71, 10098), (81, 10158), (105, 10275), (125, 10338), (128, 10356), (129, 10359), (134, 10389), (145, 10443), (150, 10473), (166, 10530), (172, 10554), (176, 10584), (179, 10596), (182, 10608), (183, 10614), (189, 10635), (424, 10980), (428, 10989), (488, 11175), (549, 11346), (564, 11391), (572, 11400), (579, 11424), (582, 11436), (589, 11460), (591, 11469), (593, 11478), (625, 11610), (639, 11655), (645, 11688), (651, 11709), (652, 11712), (674, 11796), (686, 11838), (718, 11928), (729, 11958),

Gene: Akino08_15 Start: 10420, Stop: 13050, Start Num: 17
Candidate Starts for Akino08_15:
(Start: 17 @10420 has 71 MA's), (30, 10480), (47, 10573), (58, 10609), (61, 10618), (79, 10714), (113, 10867), (124, 10906), (159, 11077), (168, 11113), (174, 11146), (178, 11167), (181, 11179), (186, 11197), (193, 11221), (207, 11272), (217, 11299), (219, 11305), (221, 11314), (227, 11332), (244, 11392), (255, 11437), (294, 11524), (305, 11551), (349, 11560), (373, 11626), (393, 11683), (495, 11986), (496, 11989), (504, 12013), (510, 12037), (543, 12148), (561, 12208), (588, 12292), (600, 12358), (603, 12370), (608, 12385), (620, 12433), (623, 12442), (624, 12445), (641, 12505), (644, 12520), (665, 12604), (679, 12652), (727, 12805), (730, 12820), (734, 12835), (753, 12922), (763, 12964),

Gene: Alakazam_19 Start: 10659, Stop: 13094, Start Num: 23
Candidate Starts for Alakazam_19:
(Start: 23 @10659 has 80 MA's), (24, 10674), (41, 10773), (79, 10935), (83, 10950), (90, 10992), (93, 11010), (112, 11088), (117, 11109), (123, 11127), (133, 11172), (141, 11217), (150, 11259), (168, 11328), (178, 11388), (198, 11463), (226, 11550), (234, 11580), (235, 11583), (239, 11595), (247, 11625), (253, 11640), (254, 11646), (278, 11706), (287, 11727), (290, 11733), (295, 11745), (300, 11760), (308, 11781), (327, 11838), (334, 11859), (342, 11886), (367, 11946), (392, 12018), (422, 12090), (423, 12096), (428, 12108), (441, 12150), (443, 12156), (454, 12189), (465, 12222), (479, 12264), (484, 12282), (519, 12399), (527, 12423), (538, 12462), (558, 12540), (591, 12651), (600, 12699), (612, 12747), (626, 12789), (631, 12804), (645, 12870), (647, 12879), (657, 12912), (669, 12963), (699, 13053), (706, 13077), (710, 13080),

Gene: Albanese_18 Start: 12660, Stop: 15221, Start Num: 19

Candidate Starts for Albanese_18:
(15, 12639), (Start: 19 @12660 has 29 MA's), (35, 12750), (42, 12789), (50, 12825), (68, 12885), (75, 12933), (76, 12948), (114, 13116), (126, 13161), (136, 13212), (137, 13215), (152, 13299), (197, 13485), (207, 13521), (212, 13533), (225, 13575), (266, 13686), (351, 13884), (387, 13977), (393, 14001), (394, 14004), (419, 14082), (420, 14088), (429, 14115), (438, 14145), (460, 14208), (465, 14223), (468, 14232), (469, 14235), (472, 14244), (480, 14268), (483, 14280), (485, 14286), (489, 14301), (491, 14307), (492, 14310), (498, 14331), (503, 14346), (508, 14361), (512, 14379), (513, 14385), (518, 14400), (521, 14409), (524, 14418), (536, 14451), (539, 14454), (542, 14466), (543, 14472), (546, 14484), (572, 14550), (577, 14565), (585, 14595), (587, 14604), (611, 14715), (623, 14751), (631, 14772), (651, 14847), (652, 14850), (665, 14904), (675, 14943), (695, 15000), (705, 15024), (722, 15066), (730, 15093), (746, 15162),

Gene: Albedo_16 Start: 10372, Stop: 13134, Start Num: 17
Candidate Starts for Albedo_16:
(Start: 17 @10372 has 71 MA's), (47, 10525), (61, 10570), (96, 10756), (124, 10858), (159, 11029), (173, 11095), (175, 11107), (176, 11116), (190, 11164), (193, 11173), (197, 11191), (219, 11257), (221, 11266), (223, 11272), (229, 11296), (233, 11308), (255, 11389), (294, 11476), (305, 11503), (308, 11512), (338, 11611), (393, 11770), (416, 11824), (436, 11881), (461, 11959), (495, 12073), (504, 12100), (517, 12145), (543, 12235), (550, 12268), (561, 12295), (588, 12373), (593, 12394), (601, 12442), (626, 12535), (641, 12580), (644, 12595), (654, 12634), (670, 12703), (675, 12721), (676, 12724), (679, 12736), (688, 12763), (727, 12889), (730, 12904), (734, 12919), (758, 13027),

Gene: Albright_16 Start: 10286, Stop: 13045, Start Num: 17
Candidate Starts for Albright_16:
(3, 10133), (6, 10214), (Start: 17 @10286 has 71 MA's), (47, 10439), (49, 10445), (61, 10484), (96, 10670), (124, 10772), (159, 10943), (173, 11009), (175, 11021), (176, 11030), (181, 11045), (190, 11078), (193, 11087), (217, 11165), (219, 11171), (221, 11180), (223, 11186), (229, 11210), (233, 11222), (239, 11240), (255, 11303), (305, 11417), (309, 11429), (338, 11525), (350, 11564), (405, 11723), (429, 11774), (432, 11783), (436, 11795), (461, 11873), (495, 11987), (504, 12014), (531, 12098), (557, 12191), (565, 12209), (568, 12218), (588, 12284), (600, 12350), (626, 12446), (641, 12491), (644, 12506), (654, 12545), (670, 12614), (675, 12632), (676, 12635), (679, 12647), (688, 12674), (722, 12788), (727, 12800), (734, 12830), (758, 12938),

Gene: AlexAdler_17 Start: 9353, Stop: 11623, Start Num: 22
Candidate Starts for AlexAdler_17:
(Start: 22 @9353 has 123 MA's), (41, 9470), (50, 9500), (75, 9611), (79, 9635), (90, 9692), (104, 9764), (109, 9779), (112, 9788), (133, 9872), (141, 9917), (147, 9947), (168, 10037), (178, 10097), (196, 10154), (204, 10175), (234, 10271), (235, 10274), (247, 10316), (278, 10397), (287, 10418), (292, 10430), (305, 10463), (333, 10547), (342, 10577), (359, 10616), (371, 10649), (372, 10655), (383, 10682), (387, 10694), (390, 10703), (392, 10709), (403, 10745), (412, 10757), (423, 10787), (436, 10823), (454, 10880), (465, 10913), (484, 10973), (506, 11045), (522, 11099), (582, 11177), (590, 11207), (591, 11210), (600, 11258), (610, 11300), (626, 11348), (631, 11363), (643, 11405), (675, 11519), (678, 11528), (697, 11585),

Gene: Aleyra_18 Start: 9928, Stop: 12189, Start Num: 23
Candidate Starts for Aleyra_18:
(Start: 23 @9928 has 80 MA's), (67, 10132), (68, 10135), (75, 10183), (79, 10207), (90, 10264), (92, 10273), (104, 10336), (109, 10351), (112, 10360), (133, 10444), (141, 10489), (147, 10519), (168, 10609), (178, 10669), (196, 10726), (204, 10747), (216, 10780), (234, 10843), (235, 10846), (253, 10903), (278, 10969), (287, 10990), (292, 11002), (305, 11035), (326, 11098), (333, 11119), (342, 11149), (359, 11188), (371, 11221), (372, 11227), (387, 11266), (412, 11329), (421, 11350), (436, 11395), (451, 11443), (454, 11452), (498, 11593), (506, 11617), (519, 11662), (522, 11671), (582, 11749), (590, 11779), (591, 11782), (600, 11830), (626, 11920), (631, 11935), (643, 11977), (675,

12085), (678, 12094), (697, 12151),

Gene: Alyxandracam_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Alyxandracam_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (67, 9569), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (383, 10691), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: Amploria_16 Start: 10733, Stop: 13057, Start Num: 21
Candidate Starts for Amploria_16:
(Start: 21 @10733 has 80 MA's), (47, 10889), (49, 10898), (54, 10913), (71, 10979), (81, 11039), (89, 11084), (105, 11156), (128, 11237), (129, 11240), (134, 11270), (145, 11324), (150, 11354), (166, 11411), (172, 11435), (183, 11495), (185, 11501), (296, 11720), (371, 11816), (383, 11849), (424, 11936), (442, 11990), (457, 12032), (470, 12071), (488, 12131), (535, 12272), (585, 12401), (587, 12410), (611, 12521), (651, 12653), (652, 12656), (681, 12767), (695, 12806), (718, 12866), (741, 12956),

Gene: Amyev_16 Start: 10746, Stop: 13070, Start Num: 21
Candidate Starts for Amyev_16:
(Start: 21 @10746 has 80 MA's), (47, 10902), (49, 10911), (71, 10992), (81, 11052), (89, 11097), (105, 11169), (124, 11229), (128, 11250), (129, 11253), (134, 11283), (145, 11337), (150, 11367), (166, 11424), (172, 11448), (183, 11508), (185, 11514), (231, 11634), (296, 11733), (371, 11829), (396, 11901), (424, 11949), (432, 11970), (442, 12003), (457, 12045), (470, 12084), (488, 12144), (493, 12159), (512, 12225), (558, 12348), (562, 12357), (585, 12414), (587, 12423), (598, 12480), (599, 12483), (611, 12534), (651, 12666), (652, 12669), (681, 12780), (695, 12819), (705, 12843), (741, 12969),

Gene: Andromedas_16 Start: 9431, Stop: 11839, Start Num: 23
Candidate Starts for Andromedas_16:
(Start: 23 @9431 has 80 MA's), (24, 9446), (41, 9545), (67, 9635), (79, 9710), (90, 9767), (92, 9776), (104, 9839), (109, 9854), (112, 9863), (133, 9947), (141, 9992), (147, 10022), (156, 10064), (168, 10112), (178, 10172), (196, 10229), (226, 10316), (234, 10346), (235, 10349), (239, 10361), (287, 10493), (290, 10499), (309, 10550), (326, 10601), (327, 10604), (339, 10637), (342, 10652), (348, 10664), (364, 10703), (383, 10757), (390, 10778), (392, 10784), (422, 10856), (423, 10862), (436, 10898), (437, 10901), (454, 10955), (475, 11018), (479, 11030), (484, 11048), (506, 11120), (513, 11150), (526, 11186), (535, 11210), (543, 11249), (551, 11285), (554, 11294), (562, 11315), (590, 11414), (591, 11417), (600, 11465), (626, 11555), (631, 11570), (643, 11615), (649, 11642), (655, 11660), (659, 11681), (664, 11699), (667, 11708), (674, 11729), (675, 11735), (678, 11744), (697, 11801), (706, 11828), (708, 11831),

Gene: Anilorac_17 Start: 9768, Stop: 12029, Start Num: 23
Candidate Starts for Anilorac_17:
(Start: 23 @9768 has 80 MA's), (67, 9972), (68, 9975), (75, 10023), (79, 10047), (90, 10104), (92, 10113), (104, 10176), (109, 10191), (112, 10200), (133, 10284), (141, 10329), (147, 10359), (156, 10401), (168, 10449), (178, 10509), (196, 10566), (204, 10587), (216, 10620), (234, 10683), (235, 10686), (253, 10743), (278, 10809), (287, 10830), (292, 10842), (305, 10875), (326, 10938), (333, 10959), (339, 10974), (342, 10989), (359, 11028), (371, 11061), (372, 11067), (387, 11106), (412, 11169), (421, 11190), (436, 11235), (451, 11283), (454, 11292), (498, 11433), (506, 11457), (519,

11502), (522, 11511), (582, 11589), (590, 11619), (591, 11622), (600, 11670), (626, 11760), (631, 11775), (643, 11817), (675, 11925), (678, 11934), (697, 11991),

Gene: AnnaLie_17 Start: 10694, Stop: 13453, Start Num: 17
Candidate Starts for AnnaLie_17:
(Start: 17 @10694 has 71 MA's), (47, 10847), (49, 10853), (61, 10892), (96, 11078), (118, 11162), (124, 11180), (144, 11279), (159, 11351), (173, 11417), (175, 11429), (176, 11438), (181, 11453), (190, 11486), (193, 11495), (197, 11513), (217, 11573), (219, 11579), (221, 11588), (223, 11594), (229, 11618), (233, 11630), (255, 11711), (305, 11825), (309, 11837), (338, 11933), (350, 11972), (386, 12068), (393, 12092), (416, 12146), (429, 12182), (432, 12191), (436, 12203), (461, 12281), (495, 12395), (504, 12422), (531, 12506), (565, 12617), (568, 12626), (588, 12692), (600, 12758), (626, 12854), (641, 12899), (644, 12914), (654, 12953), (670, 13022), (675, 13040), (676, 13043), (679, 13055), (688, 13082), (722, 13196), (727, 13208), (734, 13238), (758, 13346),

Gene: AnnabelLee_17 Start: 9570, Stop: 11855, Start Num: 18
Candidate Starts for AnnabelLee_17:
(Start: 16 @9567 has 3 MA's), (Start: 18 @9570 has 8 MA's), (37, 9669), (73, 9828), (122, 10044), (151, 10188), (186, 10335), (197, 10377), (297, 10545), (307, 10566), (366, 10620), (422, 10761), (429, 10773), (439, 10806), (444, 10821), (463, 10875), (464, 10878), (472, 10902), (483, 10938), (486, 10947), (492, 10968), (494, 10977), (496, 10983), (498, 10989), (502, 11001), (503, 11004), (511, 11034), (513, 11043), (539, 11112), (545, 11139), (546, 11142), (572, 11208), (578, 11229), (585, 11253), (591, 11277), (597, 11316), (615, 11385), (618, 11394), (628, 11421), (651, 11505), (652, 11508), (675, 11601), (677, 11607), (694, 11658), (705, 11682), (707, 11691), (728, 11736), (756, 11850),

Gene: Antoinette_17 Start: 9353, Stop: 11623, Start Num: 22
Candidate Starts for Antoinette_17:
(Start: 22 @9353 has 123 MA's), (41, 9470), (50, 9500), (75, 9611), (79, 9635), (90, 9692), (104, 9764), (109, 9779), (112, 9788), (133, 9872), (141, 9917), (147, 9947), (168, 10037), (178, 10097), (196, 10154), (204, 10175), (234, 10271), (235, 10274), (247, 10316), (278, 10397), (287, 10418), (292, 10430), (305, 10463), (333, 10547), (342, 10577), (359, 10616), (371, 10649), (372, 10655), (383, 10682), (387, 10694), (390, 10703), (392, 10709), (403, 10745), (412, 10757), (423, 10787), (436, 10823), (454, 10880), (484, 10973), (506, 11045), (522, 11099), (582, 11177), (590, 11207), (591, 11210), (600, 11258), (610, 11300), (626, 11348), (631, 11363), (643, 11405), (675, 11519), (678, 11528), (697, 11585),

Gene: AppleCider_18 Start: 12612, Stop: 15167, Start Num: 19
Candidate Starts for AppleCider_18:
(15, 12591), (Start: 19 @12612 has 29 MA's), (29, 12660), (42, 12741), (47, 12765), (68, 12837), (75, 12885), (76, 12900), (78, 12906), (114, 13068), (126, 13113), (136, 13164), (137, 13167), (142, 13197), (152, 13251), (173, 13335), (202, 13458), (222, 13518), (230, 13536), (235, 13551), (252, 13602), (351, 13833), (379, 13902), (387, 13926), (391, 13944), (393, 13950), (409, 14004), (413, 14016), (420, 14037), (428, 14061), (457, 14148), (465, 14172), (467, 14178), (468, 14181), (472, 14193), (479, 14214), (480, 14217), (481, 14223), (483, 14229), (488, 14247), (489, 14250), (491, 14256), (498, 14280), (505, 14301), (508, 14310), (512, 14328), (518, 14349), (521, 14358), (524, 14367), (536, 14400), (539, 14403), (541, 14412), (542, 14415), (554, 14466), (611, 14664), (615, 14676), (622, 14697), (623, 14700), (651, 14796), (652, 14799), (665, 14853), (675, 14892), (695, 14949), (712, 14991), (730, 15039), (739, 15081), (746, 15111),

Gene: AranulaLuti_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for AranulaLuti_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338),

(178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: Arroyo_17 Start: 10895, Stop: 13654, Start Num: 17
Candidate Starts for Arroyo_17:
(Start: 17 @10895 has 71 MA's), (47, 11048), (61, 11093), (96, 11279), (118, 11363), (124, 11381), (144, 11480), (159, 11552), (173, 11618), (175, 11630), (176, 11639), (181, 11654), (190, 11687), (193, 11696), (197, 11714), (217, 11774), (219, 11780), (221, 11789), (223, 11795), (229, 11819), (233, 11831), (242, 11861), (255, 11912), (305, 12026), (309, 12038), (338, 12134), (350, 12173), (386, 12269), (393, 12293), (416, 12347), (429, 12383), (432, 12392), (461, 12482), (495, 12596), (504, 12623), (531, 12707), (557, 12800), (565, 12818), (568, 12827), (600, 12959), (626, 13055), (641, 13100), (644, 13115), (654, 13154), (670, 13223), (675, 13241), (676, 13244), (679, 13256), (688, 13283), (722, 13397), (727, 13409), (734, 13439), (758, 13547),

Gene: Asa16_16 Start: 10703, Stop: 13027, Start Num: 21
Candidate Starts for Asa16_16:
(Start: 21 @10703 has 80 MA's), (46, 10856), (47, 10859), (49, 10868), (71, 10949), (81, 11009), (89, 11054), (105, 11126), (128, 11207), (129, 11210), (134, 11240), (145, 11294), (150, 11324), (166, 11381), (172, 11405), (183, 11465), (185, 11471), (194, 11495), (231, 11591), (296, 11690), (371, 11786), (383, 11819), (396, 11858), (424, 11906), (442, 11960), (457, 12002), (470, 12041), (476, 12059), (488, 12101), (517, 12194), (583, 12365), (587, 12380), (611, 12491), (651, 12623), (652, 12626), (660, 12659), (681, 12737), (695, 12776), (718, 12836), (741, 12926),

Gene: Ascela_16 Start: 10739, Stop: 13054, Start Num: 21
Candidate Starts for Ascela_16:
(Start: 21 @10739 has 80 MA's), (47, 10895), (52, 10913), (59, 10937), (71, 10985), (81, 11045), (89, 11090), (105, 11162), (129, 11246), (134, 11276), (145, 11330), (150, 11360), (166, 11417), (172, 11441), (183, 11501), (185, 11507), (296, 11726), (396, 11894), (424, 11942), (457, 12038), (470, 12077), (476, 12095), (488, 12137), (495, 12161), (512, 12218), (517, 12230), (558, 12341), (583, 12401), (587, 12416), (611, 12527), (645, 12638), (651, 12659), (652, 12662), (660, 12695), (681, 12773), (695, 12812), (729, 12902), (732, 12914), (752, 12998),

Gene: Ashes_16 Start: 10335, Stop: 12755, Start Num: 21
Candidate Starts for Ashes_16:
(Start: 21 @10335 has 80 MA's), (36, 10422), (62, 10527), (65, 10539), (75, 10599), (95, 10710), (116, 10791), (144, 10917), (147, 10932), (160, 10986), (201, 11160), (240, 11244), (248, 11265), (266, 11307), (335, 11433), (351, 11454), (368, 11487), (388, 11544), (399, 11586), (404, 11601), (421, 11652), (433, 11688), (435, 11694), (478, 11796), (484, 11817), (497, 11859), (518, 11919), (520, 11925), (539, 11973), (572, 12069), (615, 12246), (619, 12258), (636, 12309), (658, 12390), (675, 12459), (686, 12495), (719, 12576), (726, 12591), (743, 12663), (749, 12687),

Gene: Asta_17 Start: 9667, Stop: 11937, Start Num: 22
Candidate Starts for Asta_17:
(Start: 22 @9667 has 123 MA's), (41, 9784), (50, 9814), (67, 9874), (75, 9925), (79, 9949), (90, 10006), (109, 10093), (112, 10102), (133, 10186), (141, 10231), (146, 10258), (147, 10261), (168, 10351), (178, 10411), (196, 10468), (204, 10489), (234, 10585), (235, 10588), (247, 10630), (278, 10711), (287, 10732), (292, 10744), (305, 10777), (330, 10855), (333, 10861), (342, 10891), (359, 10930), (371, 10963), (372, 10969), (377, 10981), (383, 10996), (387, 11008), (390, 11017), (392, 11023), (412, 11071), (422, 11095), (423, 11101), (436, 11137), (454, 11194), (506, 11359), (522, 11413),

(582, 11491), (590, 11521), (591, 11524), (600, 11572), (626, 11662), (631, 11677), (643, 11719), (645, 11731), (650, 11746), (675, 11833), (678, 11842), (697, 11899),

Gene: Atraxa_12 Start: 6894, Stop: 8744, Start Num: 28
Candidate Starts for Atraxa_12:
(Start: 28 @6894 has 4 MA's), (31, 6912), (33, 6918), (49, 6996), (66, 7050), (69, 7065), (71, 7077), (79, 7131), (93, 7203), (95, 7218), (100, 7239), (116, 7299), (125, 7326), (137, 7389), (160, 7494), (172, 7545), (175, 7566), (186, 7614), (188, 7623), (203, 7665), (210, 7680), (214, 7689), (259, 7743), (268, 7761), (286, 7785), (293, 7791), (317, 7812), (321, 7824), (351, 7836), (363, 7848), (376, 7878), (382, 7890), (407, 7932), (463, 8043), (475, 8067), (480, 8079), (488, 8097), (506, 8124), (546, 8154), (571, 8214), (593, 8298), (595, 8310), (602, 8346), (609, 8376), (634, 8448), (644, 8475), (646, 8487), (648, 8496), (652, 8508), (655, 8517), (673, 8589), (691, 8640), (693, 8646), (724, 8724),

Gene: Aubergine_17 Start: 9667, Stop: 11937, Start Num: 22
Candidate Starts for Aubergine_17:
(Start: 22 @9667 has 123 MA's), (41, 9784), (50, 9814), (67, 9874), (75, 9925), (79, 9949), (90, 10006), (109, 10093), (112, 10102), (133, 10186), (141, 10231), (146, 10258), (147, 10261), (168, 10351), (178, 10411), (196, 10468), (204, 10489), (234, 10585), (235, 10588), (247, 10630), (278, 10711), (287, 10732), (292, 10744), (305, 10777), (330, 10855), (333, 10861), (342, 10891), (359, 10930), (371, 10963), (372, 10969), (377, 10981), (383, 10996), (387, 11008), (390, 11017), (392, 11023), (412, 11071), (422, 11095), (423, 11101), (436, 11137), (454, 11194), (506, 11359), (522, 11413), (582, 11491), (590, 11521), (591, 11524), (600, 11572), (626, 11662), (631, 11677), (643, 11719), (645, 11731), (650, 11746), (675, 11833), (678, 11842), (697, 11899),

Gene: Audell_20 Start: 12894, Stop: 15182, Start Num: 18
Candidate Starts for Audell_20:
(Start: 18 @12894 has 8 MA's), (93, 13254), (94, 13257), (122, 13368), (123, 13371), (124, 13374), (151, 13512), (186, 13659), (281, 13830), (302, 13878), (394, 14010), (428, 14094), (432, 14106), (439, 14130), (453, 14172), (460, 14190), (464, 14202), (488, 14280), (489, 14283), (497, 14310), (503, 14328), (506, 14337), (512, 14361), (515, 14376), (518, 14382), (522, 14394), (524, 14400), (539, 14436), (546, 14466), (572, 14532), (609, 14688), (615, 14709), (617, 14712), (651, 14829), (652, 14832), (660, 14865), (694, 14982), (705, 15006), (744, 15123),

Gene: AvGardian_16 Start: 10175, Stop: 12796, Start Num: 17
Candidate Starts for AvGardian_16:
(Start: 17 @10175 has 71 MA's), (47, 10328), (51, 10340), (61, 10373), (67, 10397), (79, 10469), (113, 10622), (124, 10661), (159, 10832), (175, 10910), (184, 10946), (190, 10967), (200, 11006), (221, 11069), (236, 11120), (239, 11129), (244, 11147), (255, 11192), (264, 11210), (294, 11279), (304, 11303), (365, 11351), (373, 11381), (388, 11420), (393, 11438), (422, 11507), (432, 11537), (436, 11549), (495, 11741), (496, 11744), (504, 11768), (532, 11852), (559, 11945), (566, 11963), (570, 11972), (579, 12005), (617, 12167), (622, 12185), (624, 12191), (629, 12209), (641, 12242), (644, 12257), (645, 12266), (646, 12269), (654, 12296), (665, 12344), (676, 12386), (679, 12398), (688, 12425), (727, 12551), (730, 12566), (734, 12581), (753, 12668), (763, 12710),

Gene: Avocadoman_16 Start: 10450, Stop: 13209, Start Num: 17
Candidate Starts for Avocadoman_16:
(Start: 17 @10450 has 71 MA's), (47, 10603), (49, 10609), (61, 10648), (96, 10834), (124, 10936), (159, 11107), (173, 11173), (175, 11185), (176, 11194), (181, 11209), (190, 11242), (193, 11251), (197, 11269), (217, 11329), (219, 11335), (221, 11344), (223, 11350), (229, 11374), (233, 11386), (239, 11404), (255, 11467), (305, 11581), (309, 11593), (316, 11620), (338, 11689), (350, 11728), (405, 11887), (429, 11938), (432, 11947), (436, 11959), (461, 12037), (495, 12151), (504, 12178), (531, 12262), (565, 12373), (568, 12382), (588, 12448), (600, 12514), (626, 12610), (641, 12655), (644, 12670), (654, 12709), (670, 12778), (675, 12796), (676, 12799), (679, 12811), (688, 12838),

(722, 12952), (727, 12964), (734, 12994), (758, 13102),

Gene: AxiPup_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for AxiPup_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: AylexOG_17 Start: 10706, Stop: 13468, Start Num: 17
Candidate Starts for AylexOG_17:
(Start: 17 @10706 has 71 MA's), (47, 10859), (49, 10865), (58, 10895), (61, 10904), (67, 10928), (79, 11000), (124, 11192), (144, 11291), (159, 11363), (175, 11441), (176, 11450), (178, 11453), (190, 11498), (193, 11507), (219, 11591), (221, 11600), (223, 11606), (229, 11630), (233, 11642), (255, 11723), (294, 11810), (305, 11837), (308, 11846), (338, 11945), (386, 12080), (393, 12104), (416, 12158), (436, 12215), (461, 12293), (495, 12407), (504, 12434), (543, 12569), (561, 12629), (588, 12707), (593, 12728), (601, 12776), (626, 12869), (641, 12914), (644, 12929), (654, 12968), (670, 13037), (676, 13058), (679, 13070), (688, 13097), (727, 13223), (730, 13238), (734, 13253),

Gene: BAjuniper_16 Start: 10103, Stop: 12796, Start Num: 17
Candidate Starts for BAjuniper_16:
(Start: 17 @10103 has 71 MA's), (43, 10244), (67, 10322), (119, 10580), (120, 10583), (149, 10724), (160, 10769), (184, 10880), (194, 10910), (201, 10943), (209, 10955), (246, 11042), (267, 11087), (311, 11183), (326, 11237), (345, 11297), (350, 11309), (362, 11336), (363, 11339), (365, 11342), (371, 11363), (393, 11429), (429, 11519), (432, 11528), (436, 11540), (449, 11582), (467, 11636), (495, 11732), (496, 11735), (504, 11759), (510, 11783), (517, 11804), (518, 11807), (543, 11894), (561, 11954), (576, 11993), (579, 12005), (580, 12008), (588, 12038), (601, 12107), (608, 12131), (617, 12167), (620, 12179), (623, 12188), (641, 12251), (644, 12266), (654, 12305), (676, 12386), (679, 12398), (730, 12566), (734, 12581), (753, 12668),

Gene: BabyDaisy_17 Start: 10507, Stop: 13269, Start Num: 17
Candidate Starts for BabyDaisy_17:
(Start: 17 @10507 has 71 MA's), (47, 10660), (51, 10672), (67, 10729), (79, 10801), (113, 10954), (124, 10993), (159, 11164), (175, 11242), (178, 11254), (179, 11257), (190, 11299), (215, 11380), (221, 11401), (239, 11461), (244, 11479), (255, 11524), (264, 11542), (278, 11578), (305, 11638), (309, 11650), (316, 11677), (350, 11785), (382, 11869), (393, 11905), (429, 11995), (432, 12004), (436, 12016), (461, 12094), (495, 12208), (504, 12235), (527, 12310), (543, 12370), (561, 12430), (588, 12508), (593, 12529), (601, 12577), (626, 12670), (641, 12715), (644, 12730), (646, 12742), (654, 12769), (670, 12838), (676, 12859), (679, 12871), (688, 12898), (727, 13024), (730, 13039), (734, 13054), (761, 13180), (768, 13255),

Gene: BabyYoda_16 Start: 10507, Stop: 13137, Start Num: 17
Candidate Starts for BabyYoda_16:
(Start: 17 @10507 has 71 MA's), (30, 10567), (47, 10660), (49, 10666), (51, 10672), (61, 10705), (79, 10801), (113, 10954), (124, 10993), (135, 11053), (141, 11080), (159, 11164), (175, 11242), (179, 11257), (184, 11278), (190, 11299), (215, 11380), (221, 11401), (239, 11461), (244, 11479), (255, 11524), (260, 11530), (264, 11542), (305, 11638), (349, 11647), (350, 11650), (365, 11683), (371, 11704), (393, 11770), (495, 12073), (496, 12076), (504, 12100), (510, 12124), (543, 12235), (561, 12295), (588, 12379), (600, 12445), (603, 12457), (608, 12472), (620, 12520), (623, 12529), (624,

12532), (641, 12592), (644, 12607), (665, 12691), (679, 12739), (727, 12892), (730, 12907), (734, 12922), (753, 13009), (763, 13051),

Gene: Bachaco_15 Start: 9893, Stop: 12670, Start Num: 17
Candidate Starts for Bachaco_15:
(Start: 17 @9893 has 71 MA's), (24, 9926), (43, 10034), (67, 10112), (117, 10364), (119, 10370), (120, 10373), (149, 10514), (173, 10622), (178, 10646), (180, 10655), (208, 10754), (224, 10802), (246, 10874), (258, 10922), (260, 10925), (269, 10943), (273, 10952), (278, 10973), (345, 11171), (349, 11180), (350, 11183), (373, 11246), (432, 11402), (434, 11408), (436, 11414), (495, 11606), (504, 11633), (517, 11678), (543, 11768), (549, 11792), (553, 11810), (561, 11828), (580, 11882), (588, 11912), (601, 11981), (608, 12005), (623, 12062), (624, 12065), (641, 12125), (644, 12140), (676, 12260), (679, 12272), (688, 12299), (700, 12341), (727, 12425), (730, 12440), (731, 12443), (768, 12656),

Gene: Baines_17 Start: 9652, Stop: 11922, Start Num: 22
Candidate Starts for Baines_17:
(Start: 22 @9652 has 123 MA's), (41, 9769), (50, 9799), (67, 9859), (75, 9910), (79, 9934), (90, 9991), (104, 10063), (109, 10078), (112, 10087), (133, 10171), (141, 10216), (147, 10246), (168, 10336), (178, 10396), (196, 10453), (204, 10474), (234, 10570), (235, 10573), (247, 10615), (278, 10696), (287, 10717), (292, 10729), (305, 10762), (333, 10846), (342, 10876), (359, 10915), (371, 10948), (372, 10954), (383, 10981), (387, 10993), (390, 11002), (392, 11008), (403, 11044), (412, 11056), (423, 11086), (436, 11122), (437, 11125), (454, 11179), (484, 11272), (506, 11344), (522, 11398), (582, 11476), (590, 11506), (591, 11509), (600, 11557), (605, 11575), (613, 11608), (626, 11647), (631, 11662), (643, 11704), (667, 11791), (675, 11818), (697, 11884),

Gene: Balsa_17 Start: 9771, Stop: 12038, Start Num: 22
Candidate Starts for Balsa_17:
(Start: 22 @9771 has 123 MA's), (50, 9918), (68, 9981), (75, 10029), (79, 10053), (90, 10110), (92, 10119), (104, 10182), (107, 10191), (109, 10197), (112, 10206), (133, 10290), (141, 10335), (147, 10365), (168, 10455), (178, 10515), (196, 10572), (204, 10593), (234, 10689), (235, 10692), (239, 10704), (253, 10749), (278, 10815), (287, 10836), (292, 10848), (305, 10881), (333, 10965), (342, 10995), (353, 11025), (359, 11034), (364, 11046), (383, 11100), (390, 11121), (392, 11127), (412, 11175), (421, 11196), (436, 11241), (454, 11298), (484, 11391), (522, 11517), (582, 11595), (590, 11625), (591, 11628), (600, 11676), (626, 11766), (631, 11781), (640, 11811), (675, 11934), (678, 11943), (697, 12000),

Gene: Bandik_17 Start: 9358, Stop: 11628, Start Num: 22
Candidate Starts for Bandik_17:
(Start: 22 @9358 has 123 MA's), (41, 9475), (50, 9505), (67, 9565), (75, 9616), (79, 9640), (90, 9697), (109, 9784), (112, 9793), (133, 9877), (141, 9922), (146, 9949), (147, 9952), (168, 10042), (178, 10102), (196, 10159), (204, 10180), (234, 10276), (235, 10279), (239, 10291), (247, 10321), (278, 10402), (287, 10423), (292, 10435), (305, 10468), (326, 10531), (330, 10546), (333, 10552), (342, 10582), (359, 10621), (371, 10654), (372, 10660), (377, 10672), (383, 10687), (387, 10699), (390, 10708), (392, 10714), (412, 10762), (436, 10828), (454, 10885), (506, 11050), (522, 11104), (582, 11182), (590, 11212), (591, 11215), (600, 11263), (626, 11353), (631, 11368), (645, 11422), (650, 11437), (675, 11524), (678, 11533), (697, 11590),

Gene: BaronJohn_18 Start: 9870, Stop: 12311, Start Num: 23
Candidate Starts for BaronJohn_18:
(Start: 23 @9870 has 80 MA's), (29, 9903), (72, 10104), (79, 10146), (90, 10203), (93, 10221), (98, 10245), (112, 10299), (117, 10320), (133, 10383), (141, 10428), (150, 10470), (155, 10488), (168, 10539), (187, 10635), (204, 10695), (219, 10737), (226, 10761), (234, 10791), (235, 10794), (238, 10803), (253, 10851), (254, 10857), (295, 10956), (300, 10971), (308, 10992), (333, 11067), (334,

11070), (353, 11127), (367, 11157), (392, 11229), (401, 11259), (404, 11268), (422, 11301), (423, 11307), (428, 11319), (438, 11352), (443, 11367), (454, 11400), (465, 11433), (475, 11463), (479, 11475), (518, 11607), (535, 11655), (536, 11661), (538, 11673), (555, 11742), (558, 11751), (582, 11829), (590, 11859), (630, 12012), (631, 12015), (633, 12027), (647, 12090), (653, 12108), (664, 12153), (680, 12213), (708, 12294), (710, 12297),

Gene: Beaupre_16 Start: 10336, Stop: 12756, Start Num: 21
Candidate Starts for Beaupre_16:
(Start: 21 @10336 has 80 MA's), (36, 10423), (62, 10528), (65, 10540), (75, 10600), (95, 10711), (116, 10792), (144, 10918), (147, 10933), (160, 10987), (201, 11161), (240, 11245), (248, 11266), (266, 11308), (335, 11434), (351, 11455), (368, 11488), (388, 11545), (399, 11587), (404, 11602), (421, 11653), (433, 11689), (435, 11695), (478, 11797), (484, 11818), (497, 11860), (518, 11920), (520, 11926), (539, 11974), (572, 12070), (609, 12226), (615, 12247), (619, 12259), (636, 12310), (675, 12460), (686, 12496), (719, 12577), (743, 12664), (749, 12688),

Gene: BeautPeep30_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for BeautPeep30_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (643, 11416), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: BeeBee8_18 Start: 9934, Stop: 12201, Start Num: 22
Candidate Starts for BeeBee8_18:
(Start: 22 @9934 has 123 MA's), (50, 10081), (68, 10144), (75, 10192), (79, 10216), (90, 10273), (92, 10282), (104, 10345), (107, 10354), (109, 10360), (112, 10369), (133, 10453), (141, 10498), (147, 10528), (168, 10618), (178, 10678), (196, 10735), (204, 10756), (234, 10852), (235, 10855), (239, 10867), (253, 10912), (278, 10978), (287, 10999), (292, 11011), (305, 11044), (333, 11128), (342, 11158), (359, 11197), (364, 11209), (383, 11263), (390, 11284), (392, 11290), (412, 11338), (421, 11359), (436, 11404), (454, 11461), (484, 11554), (522, 11680), (582, 11758), (590, 11788), (591, 11791), (600, 11839), (626, 11929), (631, 11944), (640, 11974), (675, 12097), (678, 12106), (697, 12163),

Gene: BelmontSKP_17 Start: 10694, Stop: 13453, Start Num: 17
Candidate Starts for BelmontSKP_17:
(Start: 17 @10694 has 71 MA's), (47, 10847), (49, 10853), (61, 10892), (96, 11078), (118, 11162), (124, 11180), (144, 11279), (159, 11351), (173, 11417), (175, 11429), (176, 11438), (181, 11453), (190, 11486), (193, 11495), (197, 11513), (217, 11573), (219, 11579), (221, 11588), (223, 11594), (229, 11618), (233, 11630), (255, 11711), (305, 11825), (309, 11837), (338, 11933), (350, 11972), (386, 12068), (393, 12092), (416, 12146), (429, 12182), (432, 12191), (436, 12203), (461, 12281), (495, 12395), (504, 12422), (531, 12506), (565, 12617), (568, 12626), (588, 12692), (600, 12758), (626, 12854), (641, 12899), (644, 12914), (654, 12953), (670, 13022), (675, 13040), (676, 13043), (679, 13055), (688, 13082), (722, 13196), (727, 13208), (734, 13238), (758, 13346),

Gene: Bengal_16 Start: 10285, Stop: 13044, Start Num: 17
Candidate Starts for Bengal_16:
(Start: 17 @10285 has 71 MA's), (47, 10438), (49, 10444), (61, 10483), (96, 10669), (124, 10771), (159, 10942), (173, 11008), (175, 11020), (176, 11029), (181, 11044), (190, 11077), (193, 11086), (197, 11104), (217, 11164), (219, 11170), (221, 11179), (223, 11185), (229, 11209), (233, 11221),

(239, 11239), (255, 11302), (305, 11416), (309, 11428), (316, 11455), (338, 11524), (350, 11563), (405, 11722), (429, 11773), (432, 11782), (436, 11794), (461, 11872), (495, 11986), (504, 12013), (531, 12097), (557, 12190), (565, 12208), (568, 12217), (588, 12283), (600, 12349), (626, 12445), (641, 12490), (644, 12505), (654, 12544), (670, 12613), (675, 12631), (676, 12634), (679, 12646), (688, 12673), (722, 12787), (727, 12799), (734, 12829), (758, 12937),

Gene: Benjalauren_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for Benjalauren_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: Bennie_14 Start: 9720, Stop: 12287, Start Num: 19
Candidate Starts for Bennie_14:
(15, 9699), (Start: 19 @9720 has 29 MA's), (29, 9768), (42, 9849), (47, 9873), (68, 9945), (75, 9993), (76, 10008), (78, 10014), (114, 10176), (135, 10269), (136, 10272), (137, 10275), (142, 10305), (154, 10362), (185, 10500), (191, 10521), (202, 10566), (212, 10593), (222, 10626), (230, 10644), (243, 10686), (266, 10743), (377, 11007), (387, 11034), (391, 11052), (393, 11058), (400, 11082), (408, 11103), (419, 11139), (427, 11166), (437, 11196), (438, 11202), (456, 11253), (467, 11286), (480, 11325), (481, 11331), (483, 11337), (486, 11346), (489, 11358), (491, 11364), (498, 11388), (505, 11409), (508, 11418), (518, 11457), (524, 11475), (536, 11508), (539, 11511), (542, 11523), (545, 11538), (560, 11589), (577, 11622), (581, 11640), (588, 11664), (596, 11706), (611, 11772), (615, 11784), (631, 11829), (651, 11904), (652, 11907), (665, 11961), (675, 12000), (683, 12027), (695, 12057), (701, 12069), (705, 12081), (707, 12090), (730, 12156), (739, 12198), (746, 12228),

Gene: Berrie_16 Start: 10711, Stop: 13188, Start Num: 21
Candidate Starts for Berrie_16:
(Start: 21 @10711 has 80 MA's), (47, 10867), (49, 10876), (71, 10957), (81, 11017), (89, 11062), (105, 11134), (129, 11218), (134, 11248), (145, 11302), (150, 11332), (166, 11389), (172, 11413), (183, 11473), (185, 11479), (194, 11503), (217, 11581), (264, 11713), (278, 11749), (296, 11791), (337, 11890), (372, 11962), (387, 12001), (396, 12028), (424, 12076), (442, 12130), (457, 12172), (469, 12208), (476, 12229), (488, 12271), (517, 12364), (558, 12475), (564, 12487), (583, 12535), (587, 12550), (651, 12793), (652, 12796), (681, 12907), (695, 12946), (722, 13021), (729, 13036), (752, 13132),

Gene: BigMack_14 Start: 9716, Stop: 12277, Start Num: 19
Candidate Starts for BigMack_14:
(15, 9695), (Start: 19 @9716 has 29 MA's), (29, 9764), (42, 9845), (47, 9869), (68, 9941), (75, 9989), (76, 10004), (78, 10010), (102, 10130), (114, 10172), (135, 10265), (136, 10268), (137, 10271), (142, 10301), (185, 10496), (191, 10517), (202, 10562), (222, 10622), (230, 10640), (323, 10892), (377, 11003), (387, 11030), (391, 11048), (393, 11054), (400, 11078), (403, 11087), (419, 11135), (427, 11162), (428, 11165), (437, 11192), (438, 11198), (442, 11210), (456, 11249), (461, 11264), (465, 11276), (467, 11282), (468, 11285), (471, 11294), (480, 11321), (481, 11327), (483, 11333), (486, 11342), (489, 11354), (491, 11360), (492, 11363), (508, 11414), (516, 11450), (518, 11453), (536, 11504), (539, 11507), (541, 11516), (542, 11519), (545, 11534), (577, 11618), (601, 11726), (611, 11768), (651, 11900), (652, 11903), (665, 11957), (675, 11996), (692, 12044), (695, 12053), (705, 12077), (730, 12146), (732, 12152), (746, 12218),

Gene: BigRedClifford_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for BigRedClifford_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (67, 9569), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (522, 11108), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (613, 11318), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: Blage_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Blage_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (67, 9569), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (522, 11108), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (613, 11318), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: BonesMcCoy_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for BonesMcCoy_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: Bonino_17 Start: 9644, Stop: 11914, Start Num: 22
Candidate Starts for Bonino_17:
(Start: 22 @9644 has 123 MA's), (41, 9761), (50, 9791), (67, 9851), (75, 9902), (79, 9926), (90, 9983), (109, 10070), (112, 10079), (133, 10163), (141, 10208), (146, 10235), (147, 10238), (168, 10328), (178, 10388), (196, 10445), (204, 10466), (234, 10562), (235, 10565), (247, 10607), (278, 10688), (287, 10709), (292, 10721), (305, 10754), (330, 10832), (333, 10838), (342, 10868), (359, 10907), (371, 10940), (372, 10946), (377, 10958), (383, 10973), (387, 10985), (390, 10994), (392, 11000), (412, 11048), (422, 11072), (423, 11078), (436, 11114), (454, 11171), (506, 11336), (522, 11390), (582, 11468), (590, 11498), (591, 11501), (600, 11549), (626, 11639), (631, 11654), (643, 11696), (645, 11708), (650, 11723), (675, 11810), (678, 11819), (697, 11876),

Gene: BouleyBill_17 Start: 9595, Stop: 12003, Start Num: 23
Candidate Starts for BouleyBill_17:
(Start: 23 @9595 has 80 MA's), (41, 9709), (53, 9748), (67, 9799), (68, 9802), (75, 9850), (79, 9874), (90, 9931), (98, 9973), (109, 10018), (112, 10027), (133, 10111), (141, 10156), (147, 10186), (153, 10219), (156, 10228), (164, 10264), (168, 10276), (178, 10336), (196, 10393), (204, 10414), (234, 10510), (235, 10513), (239, 10525), (253, 10570), (278, 10636), (282, 10648), (287, 10657), (290, 10663), (309, 10714), (326, 10765), (327, 10768), (342, 10816), (371, 10888), (380, 10912), (392, 10948), (437, 11065), (454, 11119), (465, 11152), (475, 11182), (506, 11284), (513, 11314), (518, 11326), (522, 11338), (537, 11383), (541, 11404), (546, 11425), (554, 11458), (558, 11470), (562,

11479), (564, 11482), (569, 11503), (590, 11578), (591, 11581), (600, 11629), (626, 11719), (641, 11767), (648, 11803), (652, 11815), (675, 11899), (678, 11908), (697, 11965),

Gene: BubbaBear_16 Start: 10372, Stop: 13134, Start Num: 17
Candidate Starts for BubbaBear_16:
(Start: 17 @10372 has 71 MA's), (47, 10525), (61, 10570), (96, 10756), (124, 10858), (159, 11029), (173, 11095), (175, 11107), (176, 11116), (190, 11164), (193, 11173), (197, 11191), (219, 11257), (221, 11266), (223, 11272), (229, 11296), (233, 11308), (255, 11389), (294, 11476), (305, 11503), (308, 11512), (338, 11611), (393, 11770), (416, 11824), (436, 11881), (461, 11959), (495, 12073), (504, 12100), (517, 12145), (543, 12235), (550, 12268), (561, 12295), (588, 12373), (593, 12394), (601, 12442), (626, 12535), (641, 12580), (644, 12595), (654, 12634), (670, 12703), (675, 12721), (676, 12724), (679, 12736), (688, 12763), (727, 12889), (730, 12904), (734, 12919), (758, 13027),

Gene: Buldak_15 Start: 10073, Stop: 13042, Start Num: 1
Candidate Starts for Buldak_15:
(Start: 1 @10073 has 3 MA's), (4, 10148), (5, 10163), (24, 10271), (25, 10274), (36, 10340), (45, 10397), (48, 10409), (70, 10493), (77, 10544), (91, 10607), (94, 10625), (103, 10670), (106, 10679), (110, 10691), (130, 10772), (132, 10784), (134, 10799), (148, 10871), (165, 10946), (172, 10976), (174, 10988), (192, 11066), (197, 11087), (205, 11114), (218, 11150), (244, 11240), (252, 11273), (263, 11300), (289, 11366), (296, 11384), (310, 11423), (313, 11438), (341, 11534), (361, 11582), (394, 11678), (400, 11699), (416, 11729), (443, 11810), (467, 11882), (469, 11888), (495, 11978), (517, 12050), (543, 12140), (549, 12164), (561, 12200), (588, 12281), (590, 12290), (598, 12335), (621, 12425), (624, 12434), (641, 12494), (644, 12509), (654, 12548), (663, 12587), (679, 12650), (688, 12677), (718, 12776), (727, 12803), (736, 12848), (742, 12872),

Gene: Burritobowl_16 Start: 10453, Stop: 13212, Start Num: 17
Candidate Starts for Burritobowl_16:
(Start: 17 @10453 has 71 MA's), (47, 10606), (49, 10612), (61, 10651), (96, 10837), (118, 10921), (124, 10939), (144, 11038), (159, 11110), (173, 11176), (175, 11188), (176, 11197), (181, 11212), (190, 11245), (193, 11254), (197, 11272), (217, 11332), (219, 11338), (221, 11347), (223, 11353), (229, 11377), (233, 11389), (239, 11407), (255, 11470), (305, 11584), (309, 11596), (338, 11692), (350, 11731), (386, 11827), (393, 11851), (416, 11905), (429, 11941), (432, 11950), (436, 11962), (461, 12040), (495, 12154), (504, 12181), (531, 12265), (565, 12376), (568, 12385), (588, 12451), (600, 12517), (626, 12613), (641, 12658), (644, 12673), (654, 12712), (663, 12751), (670, 12781), (675, 12799), (676, 12802), (679, 12814), (688, 12841), (722, 12955), (727, 12967), (734, 12997), (758, 13105),

Gene: Bustleton_17 Start: 9585, Stop: 11993, Start Num: 23
Candidate Starts for Bustleton_17:
(Start: 23 @9585 has 80 MA's), (41, 9699), (53, 9738), (67, 9789), (68, 9792), (75, 9840), (79, 9864), (90, 9921), (98, 9963), (109, 10008), (112, 10017), (133, 10101), (141, 10146), (147, 10176), (153, 10209), (156, 10218), (168, 10266), (178, 10326), (196, 10383), (234, 10500), (235, 10503), (239, 10515), (253, 10560), (277, 10623), (278, 10626), (282, 10638), (287, 10647), (290, 10653), (309, 10704), (326, 10755), (327, 10758), (333, 10776), (339, 10791), (342, 10806), (371, 10878), (380, 10902), (392, 10938), (437, 11055), (454, 11109), (465, 11142), (475, 11172), (513, 11304), (518, 11316), (522, 11328), (537, 11373), (541, 11394), (546, 11415), (554, 11448), (558, 11460), (562, 11469), (564, 11472), (569, 11493), (590, 11568), (591, 11571), (600, 11619), (626, 11709), (641, 11757), (648, 11793), (652, 11805), (675, 11889), (678, 11898), (697, 11955),

Gene: Byron23_17 Start: 9367, Stop: 11637, Start Num: 22
Candidate Starts for Byron23_17:
(Start: 22 @9367 has 123 MA's), (41, 9484), (50, 9514), (67, 9574), (75, 9625), (79, 9649), (90, 9706), (109, 9793), (112, 9802), (133, 9886), (141, 9931), (146, 9958), (147, 9961), (168, 10051), (178,

10111), (196, 10168), (204, 10189), (234, 10285), (235, 10288), (247, 10330), (278, 10411), (287, 10432), (292, 10444), (305, 10477), (330, 10555), (333, 10561), (342, 10591), (359, 10630), (371, 10663), (372, 10669), (377, 10681), (383, 10696), (387, 10708), (390, 10717), (392, 10723), (412, 10771), (436, 10837), (454, 10894), (506, 11059), (522, 11113), (582, 11191), (590, 11221), (591, 11224), (600, 11272), (626, 11362), (631, 11377), (645, 11431), (650, 11446), (675, 11533), (678, 11542), (697, 11599),

Gene: Calix_17 Start: 9645, Stop: 11915, Start Num: 22
Candidate Starts for Calix_17:
(Start: 22 @9645 has 123 MA's), (41, 9762), (50, 9792), (67, 9852), (75, 9903), (79, 9927), (90, 9984), (104, 10056), (109, 10071), (112, 10080), (133, 10164), (141, 10209), (147, 10239), (168, 10329), (178, 10389), (196, 10446), (204, 10467), (234, 10563), (235, 10566), (247, 10608), (278, 10689), (287, 10710), (292, 10722), (305, 10755), (333, 10839), (342, 10869), (359, 10908), (371, 10941), (372, 10947), (383, 10974), (387, 10986), (390, 10995), (392, 11001), (403, 11037), (412, 11049), (423, 11079), (436, 11115), (454, 11172), (484, 11265), (506, 11337), (522, 11391), (582, 11469), (590, 11499), (591, 11502), (600, 11550), (610, 11592), (626, 11640), (631, 11655), (643, 11697), (667, 11784), (675, 11811), (697, 11877),

Gene: CallieOMalley_18 Start: 12612, Stop: 15167, Start Num: 19
Candidate Starts for CallieOMalley_18:
(15, 12591), (Start: 19 @12612 has 29 MA's), (29, 12660), (42, 12741), (47, 12765), (55, 12795), (68, 12837), (76, 12900), (78, 12906), (114, 13068), (136, 13164), (137, 13167), (142, 13197), (173, 13335), (202, 13458), (222, 13518), (230, 13536), (235, 13551), (252, 13602), (351, 13833), (379, 13902), (387, 13926), (391, 13944), (393, 13950), (409, 14004), (413, 14016), (420, 14037), (428, 14061), (457, 14148), (465, 14172), (467, 14178), (468, 14181), (472, 14193), (479, 14214), (480, 14217), (481, 14223), (483, 14229), (486, 14238), (488, 14247), (489, 14250), (491, 14256), (498, 14280), (505, 14301), (508, 14310), (512, 14328), (518, 14349), (521, 14358), (524, 14367), (536, 14400), (539, 14403), (541, 14412), (542, 14415), (554, 14466), (588, 14556), (611, 14664), (615, 14676), (622, 14697), (623, 14700), (651, 14796), (652, 14799), (665, 14853), (675, 14892), (695, 14949), (712, 14991), (730, 15039), (739, 15081), (746, 15111),

Gene: CanFranMach_16 Start: 10379, Stop: 13138, Start Num: 17
Candidate Starts for CanFranMach_16:
(Start: 17 @10379 has 71 MA's), (47, 10532), (49, 10538), (62, 10580), (96, 10763), (124, 10865), (144, 10964), (159, 11036), (175, 11114), (176, 11123), (193, 11180), (198, 11201), (219, 11264), (221, 11273), (223, 11279), (229, 11303), (232, 11312), (255, 11396), (276, 11441), (308, 11519), (338, 11618), (350, 11657), (393, 11777), (429, 11867), (432, 11876), (461, 11966), (495, 12080), (504, 12107), (527, 12182), (543, 12242), (550, 12275), (561, 12302), (588, 12380), (593, 12401), (626, 12542), (641, 12587), (644, 12602), (654, 12641), (670, 12710), (676, 12731), (679, 12743), (688, 12770), (727, 12896), (730, 12911), (734, 12926), (758, 13034),

Gene: Canowicakte_18 Start: 12647, Stop: 15202, Start Num: 19
Candidate Starts for Canowicakte_18:
(15, 12626), (Start: 19 @12647 has 29 MA's), (29, 12695), (42, 12776), (47, 12800), (68, 12872), (75, 12920), (76, 12935), (78, 12941), (114, 13103), (126, 13148), (136, 13199), (137, 13202), (142, 13232), (173, 13370), (202, 13493), (222, 13553), (230, 13571), (235, 13586), (252, 13637), (351, 13868), (379, 13937), (387, 13961), (391, 13979), (393, 13985), (409, 14039), (413, 14051), (420, 14072), (428, 14096), (457, 14183), (465, 14207), (467, 14213), (468, 14216), (472, 14228), (479, 14249), (480, 14252), (481, 14258), (483, 14264), (486, 14273), (488, 14282), (489, 14285), (491, 14291), (498, 14315), (505, 14336), (508, 14345), (512, 14363), (518, 14384), (521, 14393), (524, 14402), (536, 14435), (539, 14438), (541, 14447), (542, 14450), (554, 14501), (588, 14591), (611, 14699), (615, 14711), (622, 14732), (623, 14735), (651, 14831), (652, 14834), (665, 14888), (675, 14927), (695, 14984), (712, 15026), (730, 15074), (739, 15116), (746, 15146),

Gene: Cappuccino_16 Start: 10243, Stop: 12663, Start Num: 21
Candidate Starts for Cappuccino_16:
(Start: 21 @10243 has 80 MA's), (36, 10330), (47, 10387), (62, 10435), (65, 10447), (75, 10507), (95, 10618), (116, 10699), (144, 10825), (147, 10840), (160, 10894), (201, 11068), (240, 11152), (248, 11173), (257, 11194), (266, 11215), (284, 11266), (335, 11341), (351, 11362), (368, 11395), (388, 11452), (399, 11494), (404, 11509), (421, 11560), (433, 11596), (478, 11704), (484, 11725), (497, 11767), (501, 11779), (520, 11833), (539, 11881), (572, 11977), (609, 12133), (615, 12154), (619, 12166), (636, 12217), (675, 12367), (686, 12403), (701, 12436), (749, 12595),

Gene: CaptainRex_18 Start: 9873, Stop: 12314, Start Num: 23
Candidate Starts for CaptainRex_18:
(Start: 23 @9873 has 80 MA's), (29, 9906), (72, 10107), (79, 10149), (90, 10206), (93, 10224), (98, 10248), (112, 10302), (117, 10323), (133, 10386), (141, 10431), (150, 10473), (155, 10491), (168, 10542), (187, 10638), (204, 10698), (219, 10740), (226, 10764), (234, 10794), (235, 10797), (238, 10806), (253, 10854), (254, 10860), (295, 10959), (300, 10974), (308, 10995), (333, 11070), (334, 11073), (353, 11130), (367, 11160), (392, 11232), (401, 11262), (404, 11271), (422, 11304), (423, 11310), (428, 11322), (438, 11355), (443, 11370), (454, 11403), (465, 11436), (479, 11478), (518, 11610), (535, 11658), (536, 11664), (538, 11676), (555, 11745), (558, 11754), (582, 11832), (590, 11862), (630, 12015), (631, 12018), (633, 12030), (647, 12093), (653, 12111), (664, 12156), (680, 12216), (708, 12297), (710, 12300),

Gene: CardboardBox_18 Start: 9570, Stop: 11855, Start Num: 18
Candidate Starts for CardboardBox_18:
(Start: 16 @9567 has 3 MA's), (Start: 18 @9570 has 8 MA's), (37, 9669), (73, 9828), (122, 10044), (151, 10188), (177, 10299), (186, 10335), (197, 10377), (285, 10515), (297, 10545), (298, 10548), (307, 10566), (336, 10608), (396, 10692), (403, 10716), (426, 10764), (439, 10806), (441, 10812), (456, 10854), (462, 10872), (476, 10914), (480, 10926), (486, 10947), (492, 10968), (494, 10977), (496, 10983), (502, 11001), (503, 11004), (511, 11034), (513, 11043), (539, 11112), (545, 11139), (546, 11142), (572, 11208), (578, 11229), (585, 11253), (591, 11277), (597, 11316), (615, 11385), (618, 11394), (628, 11421), (651, 11505), (652, 11508), (675, 11601), (677, 11607), (694, 11658), (705, 11682), (707, 11691), (728, 11736), (756, 11850),

Gene: CarisSwetlik_19 Start: 10125, Stop: 12389, Start Num: 23
Candidate Starts for CarisSwetlik_19:
(Start: 23 @10125 has 80 MA's), (67, 10329), (68, 10332), (75, 10380), (79, 10404), (90, 10461), (92, 10470), (107, 10542), (109, 10548), (112, 10557), (133, 10641), (141, 10686), (147, 10716), (168, 10806), (178, 10866), (186, 10896), (196, 10923), (204, 10944), (234, 11040), (235, 11043), (239, 11055), (241, 11064), (253, 11100), (285, 11184), (327, 11298), (333, 11316), (339, 11331), (342, 11346), (364, 11397), (387, 11463), (390, 11472), (392, 11478), (412, 11526), (422, 11550), (423, 11556), (436, 11592), (451, 11640), (454, 11649), (484, 11742), (498, 11790), (506, 11814), (522, 11868), (582, 11946), (590, 11976), (591, 11979), (600, 12027), (626, 12117), (630, 12129), (631, 12132), (657, 12222), (675, 12285), (678, 12294), (697, 12351),

Gene: Carostasia_16 Start: 9631, Stop: 12042, Start Num: 23
Candidate Starts for Carostasia_16:
(7, 9568), (Start: 23 @9631 has 80 MA's), (24, 9646), (29, 9664), (41, 9745), (68, 9838), (79, 9910), (90, 9967), (104, 10039), (109, 10054), (112, 10063), (124, 10105), (133, 10147), (141, 10192), (147, 10222), (156, 10264), (168, 10312), (178, 10372), (196, 10429), (226, 10516), (234, 10546), (235, 10549), (241, 10570), (261, 10627), (278, 10672), (287, 10693), (315, 10762), (333, 10822), (352, 10879), (371, 10924), (372, 10930), (383, 10957), (392, 10984), (398, 11002), (423, 11062), (436, 11098), (437, 11101), (439, 11110), (443, 11122), (454, 11155), (464, 11185), (513, 11350), (527, 11389), (544, 11452), (569, 11539), (590, 11614), (591, 11617), (600, 11665), (610, 11707), (612,

11713), (631, 11770), (653, 11854), (655, 11860), (675, 11938), (678, 11947), (697, 12004), (706, 12031), (708, 12034),

Gene: Casey_16 Start: 9601, Stop: 11994, Start Num: 23
Candidate Starts for Casey_16:
(Start: 23 @9601 has 80 MA's), (53, 9754), (67, 9805), (79, 9880), (80, 9883), (90, 9937), (109, 10021), (112, 10030), (117, 10051), (133, 10114), (141, 10159), (150, 10201), (168, 10270), (178, 10330), (204, 10408), (239, 10519), (253, 10564), (254, 10570), (290, 10657), (326, 10759), (342, 10810), (343, 10813), (367, 10870), (475, 11176), (479, 11188), (506, 11278), (513, 11308), (514, 11311), (543, 11407), (572, 11506), (586, 11554), (590, 11572), (606, 11644), (626, 11713), (642, 11773), (655, 11818), (674, 11884), (675, 11890), (678, 11899), (697, 11956),

Gene: Cashington_16 Start: 10302, Stop: 13061, Start Num: 17
Candidate Starts for Cashington_16:
(Start: 17 @10302 has 71 MA's), (47, 10455), (49, 10461), (58, 10491), (61, 10500), (67, 10524), (79, 10596), (124, 10788), (144, 10887), (159, 10959), (175, 11037), (176, 11046), (178, 11049), (190, 11094), (193, 11103), (217, 11181), (219, 11187), (221, 11196), (223, 11202), (229, 11226), (233, 11238), (239, 11256), (255, 11319), (305, 11433), (309, 11445), (316, 11472), (338, 11541), (350, 11580), (405, 11739), (429, 11790), (432, 11799), (436, 11811), (461, 11889), (495, 12003), (504, 12030), (531, 12114), (565, 12225), (568, 12234), (588, 12300), (600, 12366), (626, 12462), (641, 12507), (644, 12522), (654, 12561), (670, 12630), (675, 12648), (676, 12651), (679, 12663), (688, 12690), (727, 12816), (730, 12831), (734, 12846),

Gene: Cassia_16 Start: 10826, Stop: 13150, Start Num: 21
Candidate Starts for Cassia_16:
(Start: 21 @10826 has 80 MA's), (47, 10982), (49, 10991), (50, 10994), (71, 11072), (81, 11132), (105, 11249), (128, 11330), (129, 11333), (134, 11363), (150, 11447), (166, 11504), (172, 11528), (183, 11588), (185, 11594), (296, 11813), (396, 11981), (424, 12029), (442, 12083), (457, 12125), (470, 12164), (488, 12224), (517, 12317), (578, 12470), (581, 12482), (598, 12560), (599, 12563), (611, 12614), (651, 12746), (652, 12749), (681, 12860), (695, 12899),

Gene: Celaena_15 Start: 9829, Stop: 12606, Start Num: 17
Candidate Starts for Celaena_15:
(Start: 17 @9829 has 71 MA's), (24, 9862), (43, 9970), (67, 10048), (117, 10300), (119, 10306), (120, 10309), (149, 10450), (173, 10558), (178, 10582), (180, 10591), (208, 10690), (246, 10810), (258, 10858), (260, 10861), (269, 10879), (273, 10888), (278, 10909), (345, 11107), (349, 11116), (350, 11119), (373, 11182), (432, 11338), (434, 11344), (436, 11350), (495, 11542), (504, 11569), (517, 11614), (543, 11704), (549, 11728), (553, 11746), (561, 11764), (580, 11818), (588, 11848), (601, 11917), (608, 11941), (623, 11998), (624, 12001), (641, 12061), (644, 12076), (676, 12196), (679, 12208), (688, 12235), (700, 12277), (727, 12361), (730, 12376), (731, 12379), (768, 12592),

Gene: Chako_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for Chako_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: ChamoyPickle_18 Start: 9570, Stop: 11855, Start Num: 18

Candidate Starts for ChamoyPickle_18:
(Start: 16 @9567 has 3 MA's), (Start: 18 @9570 has 8 MA's), (37, 9669), (73, 9828), (122, 10044), (151, 10188), (177, 10299), (186, 10335), (197, 10377), (285, 10515), (297, 10545), (298, 10548), (307, 10566), (336, 10608), (396, 10692), (403, 10716), (426, 10764), (439, 10806), (441, 10812), (456, 10854), (462, 10872), (476, 10914), (480, 10926), (486, 10947), (492, 10968), (494, 10977), (496, 10983), (502, 11001), (503, 11004), (511, 11034), (513, 11043), (539, 11112), (545, 11139), (546, 11142), (572, 11208), (578, 11229), (585, 11253), (591, 11277), (597, 11316), (615, 11385), (618, 11394), (628, 11421), (651, 11505), (652, 11508), (675, 11601), (677, 11607), (694, 11658), (705, 11682), (707, 11691), (728, 11736), (756, 11850),

Gene: Chamuel_17 Start: 9647, Stop: 11917, Start Num: 22
Candidate Starts for Chamuel_17:
(Start: 22 @9647 has 123 MA's), (41, 9764), (50, 9794), (67, 9854), (75, 9905), (79, 9929), (90, 9986), (104, 10058), (109, 10073), (112, 10082), (133, 10166), (141, 10211), (147, 10241), (168, 10331), (178, 10391), (196, 10448), (204, 10469), (234, 10565), (235, 10568), (247, 10610), (278, 10691), (287, 10712), (292, 10724), (305, 10757), (333, 10841), (342, 10871), (359, 10910), (371, 10943), (372, 10949), (383, 10976), (387, 10988), (390, 10997), (392, 11003), (403, 11039), (412, 11051), (423, 11081), (436, 11117), (454, 11174), (484, 11267), (506, 11339), (522, 11393), (582, 11471), (590, 11501), (591, 11504), (600, 11552), (610, 11594), (626, 11642), (631, 11657), (643, 11699), (667, 11786), (675, 11813), (697, 11879),

Gene: Cheeto1_18 Start: 9400, Stop: 11808, Start Num: 23
Candidate Starts for Cheeto1_18:
(Start: 23 @9400 has 80 MA's), (41, 9514), (67, 9604), (75, 9655), (79, 9679), (90, 9736), (109, 9823), (112, 9832), (133, 9916), (141, 9961), (147, 9991), (153, 10024), (168, 10081), (178, 10141), (196, 10198), (226, 10285), (234, 10315), (235, 10318), (239, 10330), (253, 10375), (290, 10468), (305, 10507), (309, 10519), (326, 10570), (371, 10693), (372, 10699), (392, 10753), (422, 10825), (462, 10948), (465, 10957), (475, 10987), (506, 11089), (513, 11119), (522, 11143), (537, 11188), (562, 11284), (569, 11308), (590, 11383), (591, 11386), (600, 11434), (626, 11524), (630, 11536), (675, 11704), (678, 11713), (680, 11719), (697, 11770), (706, 11797), (708, 11800),

Gene: Chepli_18 Start: 9872, Stop: 12301, Start Num: 23
Candidate Starts for Chepli_18:
(Start: 23 @9872 has 80 MA's), (24, 9887), (29, 9905), (75, 10127), (79, 10151), (90, 10208), (104, 10280), (112, 10304), (133, 10388), (141, 10433), (147, 10463), (168, 10553), (178, 10613), (216, 10724), (234, 10787), (235, 10790), (239, 10802), (253, 10847), (254, 10853), (277, 10910), (287, 10934), (295, 10952), (308, 10988), (309, 10991), (314, 11000), (333, 11063), (334, 11066), (338, 11075), (353, 11123), (364, 11144), (392, 11225), (399, 11249), (401, 11255), (404, 11264), (423, 11303), (428, 11315), (437, 11342), (441, 11357), (443, 11363), (454, 11396), (459, 11411), (475, 11459), (479, 11471), (506, 11561), (518, 11603), (519, 11606), (527, 11630), (535, 11651), (538, 11669), (558, 11747), (582, 11825), (588, 11846), (590, 11855), (610, 11948), (630, 12008), (631, 12011), (651, 12086), (661, 12122), (668, 12146), (696, 12233), (703, 12260), (713, 12284),

Gene: ChickenKing_17 Start: 9301, Stop: 11709, Start Num: 23
Candidate Starts for ChickenKing_17:
(10, 9247), (Start: 23 @9301 has 80 MA's), (41, 9415), (53, 9454), (67, 9505), (75, 9556), (79, 9580), (90, 9637), (109, 9724), (112, 9733), (133, 9817), (141, 9862), (147, 9892), (153, 9925), (168, 9982), (178, 10042), (196, 10099), (226, 10186), (234, 10216), (235, 10219), (253, 10276), (290, 10369), (309, 10420), (326, 10471), (333, 10492), (335, 10498), (371, 10594), (372, 10600), (375, 10609), (392, 10654), (422, 10726), (462, 10849), (475, 10888), (506, 10990), (513, 11020), (522, 11044), (526, 11056), (537, 11089), (562, 11185), (569, 11209), (590, 11284), (591, 11287), (600, 11335), (626, 11425), (630, 11437), (675, 11605), (678, 11614), (680, 11620), (697, 11671), (706, 11698), (708, 11701),

Gene: ChikPic_16 Start: 9447, Stop: 11855, Start Num: 23
Candidate Starts for ChikPic_16:
(Start: 23 @9447 has 80 MA's), (24, 9462), (41, 9561), (67, 9651), (79, 9726), (90, 9783), (92, 9792), (104, 9855), (109, 9870), (112, 9879), (133, 9963), (141, 10008), (147, 10038), (156, 10080), (168, 10128), (178, 10188), (196, 10245), (226, 10332), (234, 10362), (235, 10365), (239, 10377), (287, 10509), (290, 10515), (309, 10566), (326, 10617), (327, 10620), (333, 10638), (342, 10668), (348, 10680), (364, 10719), (383, 10773), (390, 10794), (392, 10800), (422, 10872), (423, 10878), (436, 10914), (437, 10917), (454, 10971), (475, 11034), (479, 11046), (484, 11064), (506, 11136), (513, 11166), (526, 11202), (535, 11226), (543, 11265), (551, 11301), (554, 11310), (562, 11331), (590, 11430), (591, 11433), (600, 11481), (626, 11571), (631, 11586), (643, 11631), (649, 11658), (655, 11676), (659, 11697), (664, 11715), (667, 11724), (674, 11745), (675, 11751), (678, 11760), (697, 11817), (706, 11844), (708, 11847),

Gene: ChiliPepper_15 Start: 10180, Stop: 12810, Start Num: 17
Candidate Starts for ChiliPepper_15:
(Start: 17 @10180 has 71 MA's), (24, 10213), (30, 10240), (47, 10333), (51, 10345), (58, 10369), (67, 10402), (79, 10474), (113, 10627), (124, 10666), (159, 10837), (175, 10915), (178, 10927), (206, 11029), (221, 11074), (239, 11134), (255, 11197), (278, 11251), (305, 11311), (350, 11323), (363, 11353), (365, 11356), (371, 11377), (393, 11443), (434, 11548), (436, 11554), (461, 11632), (504, 11773), (510, 11797), (518, 11821), (543, 11908), (608, 12145), (617, 12181), (619, 12190), (629, 12223), (641, 12265), (644, 12280), (649, 12304), (679, 12412), (727, 12565), (730, 12580), (734, 12595),

Gene: ChipsNGuac_17 Start: 9567, Stop: 11855, Start Num: 16
Candidate Starts for ChipsNGuac_17:
(Start: 16 @9567 has 3 MA's), (Start: 18 @9570 has 8 MA's), (37, 9669), (73, 9828), (122, 10044), (151, 10188), (177, 10299), (186, 10335), (197, 10377), (285, 10515), (297, 10545), (298, 10548), (307, 10566), (336, 10608), (396, 10692), (403, 10716), (426, 10764), (439, 10806), (441, 10812), (456, 10854), (462, 10872), (476, 10914), (480, 10926), (486, 10947), (492, 10968), (494, 10977), (496, 10983), (502, 11001), (503, 11004), (511, 11034), (513, 11043), (539, 11112), (545, 11139), (546, 11142), (572, 11208), (578, 11229), (585, 11253), (591, 11277), (597, 11316), (615, 11385), (618, 11394), (628, 11421), (651, 11505), (652, 11508), (675, 11601), (677, 11607), (694, 11658), (705, 11682), (707, 11691), (728, 11736), (756, 11850),

Gene: Christoph_17 Start: 9665, Stop: 11935, Start Num: 22
Candidate Starts for Christoph_17:
(Start: 22 @9665 has 123 MA's), (41, 9782), (50, 9812), (67, 9872), (75, 9923), (79, 9947), (90, 10004), (109, 10091), (112, 10100), (133, 10184), (141, 10229), (146, 10256), (147, 10259), (168, 10349), (178, 10409), (196, 10466), (204, 10487), (234, 10583), (235, 10586), (247, 10628), (278, 10709), (287, 10730), (292, 10742), (305, 10775), (330, 10853), (333, 10859), (342, 10889), (359, 10928), (371, 10961), (372, 10967), (377, 10979), (383, 10994), (387, 11006), (390, 11015), (392, 11021), (412, 11069), (422, 11093), (423, 11099), (436, 11135), (454, 11192), (506, 11357), (522, 11411), (582, 11489), (590, 11519), (591, 11522), (600, 11570), (626, 11660), (631, 11675), (643, 11717), (645, 11729), (650, 11744), (675, 11831), (678, 11840), (697, 11897),

Gene: Cidela_16 Start: 10261, Stop: 12672, Start Num: 23
Candidate Starts for Cidela_16:
(Start: 23 @10261 has 80 MA's), (24, 10276), (29, 10294), (41, 10375), (66, 10459), (68, 10468), (79, 10540), (90, 10597), (92, 10606), (104, 10669), (109, 10684), (112, 10693), (133, 10777), (141, 10822), (147, 10852), (153, 10885), (156, 10894), (168, 10942), (178, 11002), (196, 11059), (226, 11146), (234, 11176), (235, 11179), (239, 11191), (241, 11200), (261, 11257), (278, 11302), (308, 11377), (333, 11452), (352, 11509), (353, 11512), (371, 11554), (372, 11560), (383, 11587), (392,

11614), (422, 11686), (436, 11728), (439, 11740), (443, 11752), (454, 11785), (464, 11815), (465, 11818), (475, 11848), (479, 11860), (513, 11980), (527, 12019), (551, 12115), (590, 12244), (591, 12247), (600, 12295), (631, 12400), (643, 12445), (653, 12484), (655, 12490), (664, 12529), (675, 12568), (678, 12577), (697, 12634), (706, 12661), (708, 12664),

Gene: Clancy_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for Clancy_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: CliffHanger_16 Start: 9935, Stop: 12646, Start Num: 17
Candidate Starts for CliffHanger_16:
(Start: 17 @9935 has 71 MA's), (24, 9968), (52, 10109), (54, 10115), (64, 10151), (67, 10163), (117, 10415), (119, 10421), (139, 10514), (149, 10565), (164, 10631), (208, 10793), (220, 10826), (233, 10862), (267, 10928), (272, 10937), (295, 11000), (308, 11033), (344, 11153), (360, 11189), (370, 11219), (405, 11321), (425, 11363), (430, 11375), (439, 11396), (443, 11408), (495, 11576), (543, 11738), (553, 11780), (561, 11798), (563, 11804), (576, 11834), (595, 11912), (600, 11945), (614, 11999), (616, 12005), (641, 12092), (644, 12107), (645, 12116), (654, 12146), (679, 12248), (688, 12275), (704, 12332), (718, 12374), (727, 12401), (760, 12548),

Gene: Clock_18 Start: 10608, Stop: 13046, Start Num: 23
Candidate Starts for Clock_18:
(Start: 23 @10608 has 80 MA's), (53, 10758), (57, 10773), (72, 10842), (79, 10884), (90, 10941), (93, 10959), (112, 11037), (117, 11058), (123, 11076), (133, 11121), (141, 11166), (168, 11277), (178, 11337), (198, 11412), (212, 11454), (226, 11499), (234, 11529), (235, 11532), (239, 11544), (247, 11574), (253, 11589), (255, 11598), (278, 11655), (287, 11676), (290, 11682), (295, 11694), (308, 11730), (327, 11787), (333, 11805), (334, 11808), (342, 11835), (367, 11895), (375, 11922), (383, 11940), (392, 11967), (422, 12039), (423, 12045), (428, 12057), (441, 12099), (443, 12105), (454, 12138), (465, 12171), (479, 12213), (503, 12294), (519, 12348), (530, 12381), (538, 12411), (555, 12480), (558, 12489), (582, 12567), (591, 12600), (600, 12648), (612, 12696), (631, 12753), (645, 12819), (647, 12828), (699, 13005), (706, 13029),

Gene: ColaCorta_16 Start: 9431, Stop: 11839, Start Num: 23
Candidate Starts for ColaCorta_16:
(Start: 23 @9431 has 80 MA's), (24, 9446), (41, 9545), (67, 9635), (79, 9710), (90, 9767), (92, 9776), (104, 9839), (109, 9854), (112, 9863), (133, 9947), (141, 9992), (147, 10022), (156, 10064), (168, 10112), (178, 10172), (196, 10229), (226, 10316), (234, 10346), (235, 10349), (239, 10361), (287, 10493), (290, 10499), (309, 10550), (326, 10601), (327, 10604), (339, 10637), (342, 10652), (348, 10664), (364, 10703), (383, 10757), (390, 10778), (392, 10784), (422, 10856), (423, 10862), (436, 10898), (437, 10901), (454, 10955), (475, 11018), (479, 11030), (484, 11048), (506, 11120), (513, 11150), (526, 11186), (535, 11210), (543, 11249), (551, 11285), (554, 11294), (562, 11315), (590, 11414), (591, 11417), (600, 11465), (626, 11555), (631, 11570), (643, 11615), (649, 11642), (655, 11660), (659, 11681), (664, 11699), (667, 11708), (674, 11729), (675, 11735), (678, 11744), (697, 11801), (706, 11828), (708, 11831),

Gene: Community_16 Start: 11793, Stop: 14270, Start Num: 21
Candidate Starts for Community_16:

(Start: 21 @11793 has 80 MA's), (47, 11949), (49, 11958), (71, 12039), (81, 12099), (89, 12144), (105, 12216), (129, 12300), (134, 12330), (145, 12384), (150, 12414), (166, 12471), (172, 12495), (183, 12555), (185, 12561), (194, 12585), (217, 12663), (229, 12696), (278, 12831), (296, 12873), (337, 12972), (372, 13044), (387, 13083), (396, 13110), (424, 13158), (436, 13191), (457, 13254), (476, 13311), (488, 13353), (493, 13368), (517, 13446), (564, 13569), (583, 13617), (587, 13632), (608, 13725), (611, 13743), (615, 13755), (651, 13875), (652, 13878), (681, 13989), (695, 14028), (729, 14118),

Gene: Convict_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Convict_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: CoraRita_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for CoraRita_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: Crewmate_17 Start: 11180, Stop: 13486, Start Num: 21
Candidate Starts for Crewmate_17:
(Start: 21 @11180 has 80 MA's), (46, 11333), (47, 11336), (49, 11345), (81, 11486), (105, 11603), (129, 11687), (134, 11717), (145, 11771), (166, 11858), (172, 11882), (183, 11942), (185, 11948), (204, 12014), (295, 12164), (296, 12167), (393, 12326), (396, 12335), (424, 12383), (442, 12437), (457, 12479), (470, 12518), (488, 12578), (493, 12593), (517, 12671), (535, 12719), (564, 12794), (573, 12806), (585, 12848), (587, 12857), (611, 12968), (651, 13100), (652, 13103), (681, 13214), (695, 13253), (717, 13307), (722, 13328), (729, 13343), (749, 13421),

Gene: CroZenni_16 Start: 10285, Stop: 13044, Start Num: 17
Candidate Starts for CroZenni_16:
(Start: 17 @10285 has 71 MA's), (47, 10438), (49, 10444), (61, 10483), (96, 10669), (118, 10753), (124, 10771), (144, 10870), (159, 10942), (173, 11008), (175, 11020), (176, 11029), (181, 11044), (190, 11077), (193, 11086), (197, 11104), (217, 11164), (219, 11170), (221, 11179), (223, 11185), (229, 11209), (233, 11221), (255, 11302), (305, 11416), (309, 11428), (338, 11524), (350, 11563), (386, 11659), (393, 11683), (416, 11737), (429, 11773), (432, 11782), (436, 11794), (461, 11872), (495, 11986), (504, 12013), (531, 12097), (565, 12208), (568, 12217), (588, 12283), (600, 12349), (626, 12445), (641, 12490), (644, 12505), (654, 12544), (670, 12613), (675, 12631), (676, 12634), (679, 12646), (688, 12673), (722, 12787), (727, 12799), (734, 12829), (758, 12937),

Gene: CupcakePrincess_16 Start: 10399, Stop: 13161, Start Num: 17
Candidate Starts for CupcakePrincess_16:

(Start: 17 @10399 has 71 MA's), (47, 10552), (49, 10558), (58, 10588), (61, 10597), (67, 10621), (79, 10693), (124, 10885), (144, 10984), (159, 11056), (175, 11134), (176, 11143), (178, 11146), (190, 11191), (193, 11200), (219, 11284), (221, 11293), (223, 11299), (227, 11311), (229, 11323), (233, 11335), (255, 11416), (294, 11503), (305, 11530), (308, 11539), (338, 11638), (350, 11677), (386, 11773), (393, 11797), (416, 11851), (436, 11908), (461, 11986), (495, 12100), (504, 12127), (543, 12262), (561, 12322), (588, 12400), (593, 12421), (601, 12469), (626, 12562), (641, 12607), (644, 12622), (654, 12661), (670, 12730), (675, 12748), (676, 12751), (679, 12763), (688, 12790), (727, 12916), (730, 12931), (734, 12946),

Gene: Cyan_16 Start: 10730, Stop: 13045, Start Num: 21
Candidate Starts for Cyan_16:
(Start: 21 @10730 has 80 MA's), (47, 10886), (49, 10895), (71, 10976), (72, 10988), (81, 11036), (105, 11153), (128, 11234), (129, 11237), (134, 11267), (145, 11321), (150, 11351), (166, 11408), (172, 11432), (183, 11492), (296, 11717), (371, 11813), (396, 11885), (424, 11933), (442, 11987), (457, 12029), (470, 12068), (488, 12128), (587, 12407), (593, 12431), (598, 12464), (599, 12467), (611, 12518), (645, 12629), (651, 12650), (652, 12653), (660, 12686), (681, 12764), (695, 12803), (718, 12863), (729, 12893), (741, 12944), (752, 12989), (762, 13034),

Gene: Dave_17 Start: 9353, Stop: 11623, Start Num: 22
Candidate Starts for Dave_17:
(Start: 22 @9353 has 123 MA's), (41, 9470), (50, 9500), (75, 9611), (79, 9635), (90, 9692), (104, 9764), (109, 9779), (112, 9788), (133, 9872), (141, 9917), (147, 9947), (168, 10037), (178, 10097), (196, 10154), (204, 10175), (234, 10271), (235, 10274), (247, 10316), (278, 10397), (287, 10418), (292, 10430), (305, 10463), (333, 10547), (342, 10577), (359, 10616), (371, 10649), (372, 10655), (383, 10682), (387, 10694), (390, 10703), (392, 10709), (403, 10745), (412, 10757), (423, 10787), (436, 10823), (454, 10880), (484, 10973), (506, 11045), (522, 11099), (582, 11177), (590, 11207), (591, 11210), (600, 11258), (610, 11300), (626, 11348), (631, 11363), (643, 11405), (675, 11519), (678, 11528), (697, 11585),

Gene: Delphidian_17 Start: 9361, Stop: 11631, Start Num: 22
Candidate Starts for Delphidian_17:
(Start: 22 @9361 has 123 MA's), (41, 9478), (50, 9508), (67, 9568), (75, 9619), (79, 9643), (90, 9700), (109, 9787), (112, 9796), (133, 9880), (141, 9925), (146, 9952), (147, 9955), (168, 10045), (178, 10105), (196, 10162), (204, 10183), (234, 10279), (235, 10282), (247, 10324), (278, 10405), (287, 10426), (292, 10438), (305, 10471), (330, 10549), (333, 10555), (342, 10585), (359, 10624), (371, 10657), (372, 10663), (377, 10675), (383, 10690), (387, 10702), (390, 10711), (392, 10717), (412, 10765), (436, 10831), (454, 10888), (506, 11053), (522, 11107), (582, 11185), (590, 11215), (591, 11218), (600, 11266), (626, 11356), (631, 11371), (645, 11425), (650, 11440), (675, 11527), (678, 11536), (697, 11593),

Gene: Den3_17 Start: 9366, Stop: 11636, Start Num: 22
Candidate Starts for Den3_17:
(Start: 22 @9366 has 123 MA's), (41, 9483), (50, 9513), (75, 9624), (79, 9648), (90, 9705), (104, 9777), (109, 9792), (112, 9801), (133, 9885), (141, 9930), (147, 9960), (168, 10050), (178, 10110), (196, 10167), (204, 10188), (234, 10284), (235, 10287), (247, 10329), (278, 10410), (287, 10431), (292, 10443), (305, 10476), (333, 10560), (342, 10590), (359, 10629), (371, 10662), (372, 10668), (387, 10707), (390, 10716), (392, 10722), (403, 10758), (412, 10770), (423, 10800), (436, 10836), (454, 10893), (465, 10926), (484, 10986), (506, 11058), (582, 11190), (590, 11220), (591, 11223), (600, 11271), (610, 11313), (626, 11361), (631, 11376), (643, 11418), (650, 11445), (675, 11532), (678, 11541), (697, 11598),

Gene: DickRichards_16 Start: 10780, Stop: 13539, Start Num: 17
Candidate Starts for DickRichards_16:

(Start: 17 @10780 has 71 MA's), (47, 10933), (49, 10939), (61, 10978), (96, 11164), (118, 11248), (124, 11266), (144, 11365), (159, 11437), (173, 11503), (175, 11515), (176, 11524), (181, 11539), (190, 11572), (193, 11581), (197, 11599), (217, 11659), (219, 11665), (221, 11674), (223, 11680), (229, 11704), (233, 11716), (242, 11746), (255, 11797), (305, 11911), (309, 11923), (338, 12019), (350, 12058), (386, 12154), (416, 12232), (429, 12268), (432, 12277), (436, 12289), (461, 12367), (495, 12481), (504, 12508), (531, 12592), (557, 12685), (565, 12703), (568, 12712), (588, 12778), (600, 12844), (626, 12940), (641, 12985), (644, 13000), (654, 13039), (670, 13108), (675, 13126), (676, 13129), (679, 13141), (688, 13168), (722, 13282), (727, 13294), (734, 13324), (758, 13432),

Gene: Didgeridoo_17 Start: 10509, Stop: 13271, Start Num: 17
Candidate Starts for Didgeridoo_17:
(Start: 17 @10509 has 71 MA's), (47, 10662), (51, 10674), (67, 10731), (79, 10803), (113, 10956), (124, 10995), (159, 11166), (175, 11244), (178, 11256), (179, 11259), (190, 11301), (215, 11382), (221, 11403), (239, 11463), (244, 11481), (255, 11526), (278, 11580), (305, 11640), (309, 11652), (316, 11679), (350, 11787), (382, 11871), (393, 11907), (429, 11997), (432, 12006), (436, 12018), (461, 12096), (495, 12210), (504, 12237), (527, 12312), (543, 12372), (561, 12432), (588, 12510), (593, 12531), (601, 12579), (626, 12672), (641, 12717), (644, 12732), (646, 12744), (654, 12771), (670, 12840), (676, 12861), (679, 12873), (688, 12900), (727, 13026), (730, 13041), (734, 13056), (761, 13182), (768, 13257),

Gene: DirtyBubble_16 Start: 10465, Stop: 13095, Start Num: 17
Candidate Starts for DirtyBubble_16:
(Start: 17 @10465 has 71 MA's), (30, 10525), (47, 10618), (49, 10624), (51, 10630), (61, 10663), (79, 10759), (113, 10912), (124, 10951), (135, 11011), (141, 11038), (159, 11122), (175, 11200), (179, 11215), (184, 11236), (186, 11242), (200, 11296), (215, 11338), (221, 11359), (239, 11419), (244, 11437), (255, 11482), (264, 11500), (305, 11596), (349, 11605), (350, 11608), (365, 11641), (371, 11662), (393, 11728), (495, 12031), (496, 12034), (504, 12058), (510, 12082), (543, 12193), (561, 12253), (588, 12337), (600, 12403), (603, 12415), (608, 12430), (620, 12478), (623, 12487), (624, 12490), (641, 12550), (644, 12565), (665, 12649), (679, 12697), (727, 12850), (730, 12865), (734, 12880), (753, 12967), (763, 13009),

Gene: Dismas_15 Start: 10180, Stop: 12810, Start Num: 17
Candidate Starts for Dismas_15:
(Start: 17 @10180 has 71 MA's), (24, 10213), (30, 10240), (47, 10333), (51, 10345), (58, 10369), (67, 10402), (79, 10474), (113, 10627), (124, 10666), (159, 10837), (175, 10915), (178, 10927), (206, 11029), (221, 11074), (239, 11134), (255, 11197), (278, 11251), (305, 11311), (350, 11323), (362, 11350), (363, 11353), (365, 11356), (371, 11377), (393, 11443), (434, 11548), (436, 11554), (461, 11632), (504, 11773), (510, 11797), (518, 11821), (543, 11908), (608, 12145), (617, 12181), (619, 12190), (629, 12223), (641, 12265), (644, 12280), (649, 12304), (679, 12412), (727, 12565), (730, 12580), (734, 12595),

Gene: Donkey_16 Start: 10243, Stop: 12663, Start Num: 21
Candidate Starts for Donkey_16:
(Start: 21 @10243 has 80 MA's), (36, 10330), (47, 10387), (62, 10435), (65, 10447), (75, 10507), (95, 10618), (116, 10699), (144, 10825), (147, 10840), (160, 10894), (201, 11068), (240, 11152), (248, 11173), (257, 11194), (266, 11215), (284, 11266), (335, 11341), (351, 11362), (368, 11395), (388, 11452), (399, 11494), (404, 11509), (421, 11560), (433, 11596), (478, 11704), (484, 11725), (497, 11767), (501, 11779), (520, 11833), (539, 11881), (572, 11977), (609, 12133), (615, 12154), (619, 12166), (636, 12217), (675, 12367), (686, 12403), (719, 12484), (749, 12595),

Gene: Doobus_16 Start: 10637, Stop: 13396, Start Num: 17
Candidate Starts for Doobus_16:

(Start: 17 @10637 has 71 MA's), (47, 10790), (61, 10835), (88, 10976), (124, 11123), (159, 11294), (173, 11360), (175, 11372), (176, 11381), (190, 11429), (193, 11438), (217, 11516), (219, 11522), (221, 11531), (223, 11537), (229, 11561), (233, 11573), (239, 11591), (255, 11654), (305, 11768), (309, 11780), (338, 11876), (350, 11915), (405, 12074), (429, 12125), (432, 12134), (436, 12146), (461, 12224), (495, 12338), (504, 12365), (531, 12449), (557, 12542), (565, 12560), (568, 12569), (588, 12635), (600, 12701), (626, 12797), (641, 12842), (644, 12857), (654, 12896), (670, 12965), (675, 12983), (676, 12986), (679, 12998), (688, 13025), (722, 13139), (727, 13151), (734, 13181), (758, 13289),

Gene: Dothraki_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for Dothraki_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: DrManhattan_16 Start: 10713, Stop: 12947, Start Num: 21
Candidate Starts for DrManhattan_16:
(Start: 21 @10713 has 80 MA's), (34, 10788), (47, 10869), (49, 10878), (57, 10905), (71, 10959), (72, 10971), (81, 11019), (84, 11031), (105, 11136), (128, 11217), (129, 11220), (134, 11250), (150, 11334), (166, 11391), (172, 11415), (179, 11457), (183, 11475), (194, 11505), (206, 11544), (213, 11562), (280, 11634), (281, 11637), (294, 11655), (360, 11700), (380, 11757), (393, 11796), (396, 11805), (424, 11853), (428, 11862), (457, 11949), (461, 11961), (470, 11988), (476, 12006), (488, 12048), (520, 12150), (547, 12210), (564, 12264), (575, 12282), (582, 12309), (585, 12318), (604, 12408), (609, 12429), (619, 12462), (637, 12516), (643, 12537), (677, 12669), (686, 12699), (734, 12828), (749, 12882),

Gene: DrSierra_16 Start: 10741, Stop: 13035, Start Num: 21
Candidate Starts for DrSierra_16:
(Start: 21 @10741 has 80 MA's), (47, 10897), (49, 10906), (52, 10915), (57, 10933), (71, 10987), (72, 10999), (81, 11047), (105, 11164), (128, 11245), (129, 11248), (134, 11278), (145, 11332), (150, 11362), (161, 11404), (166, 11419), (172, 11443), (179, 11485), (183, 11503), (216, 11608), (296, 11728), (380, 11848), (387, 11869), (393, 11887), (396, 11896), (424, 11944), (428, 11953), (442, 11998), (457, 12040), (470, 12079), (476, 12097), (488, 12139), (520, 12241), (543, 12286), (547, 12301), (564, 12355), (575, 12373), (582, 12400), (585, 12409), (604, 12499), (619, 12553), (637, 12607), (643, 12628), (677, 12760), (686, 12790), (749, 12970),

Gene: DreamTeam_14 Start: 9784, Stop: 12330, Start Num: 19
Candidate Starts for DreamTeam_14:
(15, 9763), (Start: 19 @9784 has 29 MA's), (29, 9832), (42, 9913), (55, 9967), (68, 10009), (75, 10057), (76, 10072), (78, 10078), (114, 10240), (126, 10285), (136, 10336), (137, 10339), (185, 10564), (191, 10585), (205, 10639), (212, 10657), (213, 10660), (222, 10690), (366, 11026), (384, 11080), (387, 11086), (391, 11104), (393, 11110), (408, 11155), (418, 11188), (419, 11191), (434, 11239), (435, 11242), (438, 11254), (441, 11263), (457, 11308), (460, 11317), (467, 11338), (471, 11350), (472, 11353), (480, 11377), (481, 11383), (483, 11389), (489, 11410), (491, 11416), (497, 11437), (505, 11461), (508, 11470), (512, 11488), (518, 11509), (520, 11515), (536, 11560), (539, 11563), (541, 11572), (542, 11575), (577, 11674), (578, 11680), (592, 11734), (611, 11824), (651, 11956), (652, 11959), (665, 12013), (675, 12052), (681, 12070), (692, 12100), (695, 12109), (712, 12151), (746, 12271),

Gene: Duocatuli_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for Duocatuli_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: Edmundo_67 Start: 37140, Stop: 40157, Start Num: 9
Candidate Starts for Edmundo_67:
(Start: 9 @37140 has 6 MA's), (14, 37161), (20, 37191), (Start: 21 @37194 has 80 MA's), (38, 37299), (63, 37392), (73, 37452), (120, 37662), (122, 37668), (123, 37671), (124, 37674), (130, 37701), (140, 37761), (151, 37812), (162, 37854), (163, 37857), (171, 37884), (181, 37941), (186, 37959), (228, 38109), (249, 38169), (261, 38202), (264, 38211), (277, 38277), (287, 38301), (319, 38397), (333, 38445), (334, 38448), (339, 38460), (344, 38481), (347, 38493), (368, 38544), (395, 38637), (399, 38652), (424, 38727), (436, 38760), (439, 38772), (442, 38781), (452, 38811), (457, 38826), (460, 38835), (465, 38850), (482, 38904), (493, 38943), (525, 39069), (567, 39219), (572, 39240), (581, 39273), (582, 39276), (587, 39294), (593, 39318), (595, 39330), (598, 39351), (638, 39486), (644, 39507), (648, 39528), (659, 39570), (660, 39573), (692, 39681), (698, 39705), (702, 39714), (721, 39768), (722, 39777), (738, 39840), (745, 39870), (747, 39879), (764, 39978), (765, 39984), (767, 40014), (769, 40053), (771, 40140),

Gene: Eleri_16 Start: 9444, Stop: 11852, Start Num: 23
Candidate Starts for Eleri_16:
(Start: 23 @9444 has 80 MA's), (24, 9459), (41, 9558), (67, 9648), (79, 9723), (90, 9780), (92, 9789), (104, 9852), (109, 9867), (112, 9876), (133, 9960), (141, 10005), (147, 10035), (156, 10077), (168, 10125), (178, 10185), (196, 10242), (226, 10329), (234, 10359), (235, 10362), (239, 10374), (287, 10506), (290, 10512), (309, 10563), (326, 10614), (327, 10617), (339, 10650), (342, 10665), (348, 10677), (364, 10716), (383, 10770), (390, 10791), (392, 10797), (422, 10869), (423, 10875), (436, 10911), (437, 10914), (454, 10968), (475, 11031), (479, 11043), (484, 11061), (506, 11133), (513, 11163), (526, 11199), (535, 11223), (543, 11262), (551, 11298), (554, 11307), (562, 11328), (590, 11427), (591, 11430), (600, 11478), (626, 11568), (631, 11583), (643, 11628), (649, 11655), (655, 11673), (659, 11694), (664, 11712), (667, 11721), (674, 11742), (675, 11748), (678, 11757), (697, 11814), (706, 11841), (708, 11844),

Gene: Elezi_16 Start: 10704, Stop: 13028, Start Num: 21
Candidate Starts for Elezi_16:
(Start: 21 @10704 has 80 MA's), (46, 10857), (47, 10860), (49, 10869), (71, 10950), (81, 11010), (89, 11055), (105, 11127), (128, 11208), (129, 11211), (134, 11241), (145, 11295), (150, 11325), (166, 11382), (172, 11406), (183, 11466), (185, 11472), (194, 11496), (231, 11592), (296, 11691), (371, 11787), (396, 11859), (424, 11907), (442, 11961), (457, 12003), (470, 12042), (476, 12060), (488, 12102), (517, 12195), (583, 12366), (587, 12381), (611, 12492), (651, 12624), (652, 12627), (660, 12660), (681, 12738), (695, 12777), (718, 12837), (741, 12927),

Gene: Elva_17 Start: 10426, Stop: 13056, Start Num: 17
Candidate Starts for Elva_17:
(Start: 17 @10426 has 71 MA's), (30, 10486), (47, 10579), (51, 10591), (61, 10624), (79, 10720), (113, 10873), (124, 10912), (135, 10972), (159, 11083), (175, 11161), (176, 11170), (179, 11176), (184, 11197), (190, 11218), (200, 11257), (215, 11299), (221, 11320), (239, 11380), (255, 11443), (264,

11461), (278, 11497), (304, 11554), (350, 11569), (365, 11602), (388, 11671), (393, 11689), (422, 11758), (495, 11992), (504, 12019), (510, 12043), (543, 12154), (561, 12214), (588, 12298), (592, 12316), (600, 12364), (608, 12391), (623, 12448), (624, 12451), (641, 12511), (644, 12526), (665, 12610), (679, 12658), (727, 12811), (730, 12826), (734, 12841), (753, 12928), (763, 12970),

Gene: Emotion_15 Start: 9044, Stop: 11284, Start Num: 21
Candidate Starts for Emotion_15:
(Start: 21 @9044 has 80 MA's), (36, 9131), (60, 9233), (73, 9299), (94, 9404), (122, 9515), (124, 9521), (151, 9659), (163, 9704), (186, 9806), (191, 9824), (279, 9938), (368, 10034), (401, 10121), (418, 10160), (429, 10184), (437, 10208), (439, 10217), (445, 10235), (455, 10262), (472, 10313), (476, 10325), (493, 10382), (509, 10436), (521, 10478), (562, 10607), (585, 10664), (615, 10796), (617, 10799), (651, 10916), (675, 11012), (677, 11018), (686, 11048),

Gene: Endor_18 Start: 9902, Stop: 12169, Start Num: 22
Candidate Starts for Endor_18:
(Start: 22 @9902 has 123 MA's), (50, 10049), (67, 10109), (75, 10160), (79, 10184), (90, 10241), (92, 10250), (107, 10322), (109, 10328), (112, 10337), (133, 10421), (141, 10466), (147, 10496), (168, 10586), (178, 10646), (196, 10703), (204, 10724), (234, 10820), (235, 10823), (239, 10835), (253, 10880), (278, 10946), (287, 10967), (292, 10979), (305, 11012), (333, 11096), (339, 11111), (342, 11126), (359, 11165), (364, 11177), (383, 11231), (390, 11252), (392, 11258), (404, 11297), (421, 11327), (422, 11330), (423, 11336), (436, 11372), (484, 11522), (498, 11570), (506, 11594), (522, 11648), (582, 11726), (590, 11756), (591, 11759), (600, 11807), (610, 11849), (626, 11897), (631, 11912), (653, 11987), (674, 12059), (675, 12065), (678, 12074), (697, 12131),

Gene: Eraser_16 Start: 10704, Stop: 13028, Start Num: 21
Candidate Starts for Eraser_16:
(Start: 21 @10704 has 80 MA's), (46, 10857), (47, 10860), (49, 10869), (71, 10950), (81, 11010), (89, 11055), (105, 11127), (128, 11208), (129, 11211), (134, 11241), (145, 11295), (150, 11325), (166, 11382), (172, 11406), (183, 11466), (185, 11472), (194, 11496), (231, 11592), (296, 11691), (371, 11787), (383, 11820), (396, 11859), (424, 11907), (442, 11961), (457, 12003), (470, 12042), (476, 12060), (488, 12102), (517, 12195), (583, 12366), (587, 12381), (611, 12492), (651, 12624), (652, 12627), (660, 12660), (681, 12738), (695, 12777), (718, 12837),

Gene: Erla_17 Start: 9645, Stop: 11915, Start Num: 22
Candidate Starts for Erla_17:
(Start: 22 @9645 has 123 MA's), (41, 9762), (50, 9792), (67, 9852), (75, 9903), (79, 9927), (90, 9984), (104, 10056), (109, 10071), (112, 10080), (133, 10164), (141, 10209), (147, 10239), (168, 10329), (178, 10389), (196, 10446), (204, 10467), (234, 10563), (235, 10566), (247, 10608), (278, 10689), (287, 10710), (292, 10722), (305, 10755), (333, 10839), (342, 10869), (359, 10908), (371, 10941), (372, 10947), (383, 10974), (387, 10986), (390, 10995), (392, 11001), (403, 11037), (412, 11049), (423, 11079), (436, 11115), (454, 11172), (484, 11265), (506, 11337), (522, 11391), (582, 11469), (590, 11499), (591, 11502), (600, 11550), (610, 11592), (626, 11640), (631, 11655), (643, 11697), (667, 11784), (675, 11811), (697, 11877),

Gene: Espinosa_17 Start: 9665, Stop: 11935, Start Num: 22
Candidate Starts for Espinosa_17:
(Start: 22 @9665 has 123 MA's), (41, 9782), (50, 9812), (67, 9872), (75, 9923), (79, 9947), (90, 10004), (109, 10091), (112, 10100), (133, 10184), (141, 10229), (146, 10256), (147, 10259), (168, 10349), (178, 10409), (196, 10466), (204, 10487), (234, 10583), (235, 10586), (247, 10628), (278, 10709), (287, 10730), (292, 10742), (305, 10775), (330, 10853), (333, 10859), (342, 10889), (359, 10928), (371, 10961), (372, 10967), (377, 10979), (383, 10994), (387, 11006), (390, 11015), (392, 11021), (412, 11069), (422, 11093), (423, 11099), (436, 11135), (454, 11192), (506, 11357), (522, 11411), (582, 11489), (590, 11519), (591, 11522), (600, 11570), (626, 11660), (631, 11675), (643, 11717),

(645, 11729), (650, 11744), (675, 11831), (678, 11840), (697, 11897),

Gene: EstebanJulior_14 Start: 9752, Stop: 12301, Start Num: 19
Candidate Starts for EstebanJulior_14:
(12, 9722), (Start: 19 @9752 has 29 MA's), (42, 9881), (50, 9917), (75, 10025), (76, 10040), (108, 10187), (114, 10208), (136, 10304), (154, 10394), (175, 10487), (202, 10598), (222, 10658), (225, 10667), (335, 10940), (366, 10994), (377, 11027), (384, 11048), (387, 11054), (391, 11072), (419, 11159), (438, 11222), (457, 11276), (460, 11285), (467, 11306), (471, 11318), (472, 11321), (480, 11345), (481, 11351), (483, 11357), (486, 11366), (489, 11378), (491, 11384), (497, 11405), (508, 11438), (511, 11453), (512, 11456), (518, 11477), (520, 11483), (524, 11495), (536, 11528), (539, 11531), (541, 11540), (542, 11543), (545, 11558), (577, 11642), (587, 11681), (611, 11792), (615, 11804), (631, 11849), (651, 11924), (652, 11927), (665, 11981), (692, 12068), (695, 12077), (705, 12101), (709, 12113), (730, 12170), (732, 12176), (746, 12242), (755, 12284),

Gene: Etna_17 Start: 9762, Stop: 12029, Start Num: 22
Candidate Starts for Etna_17:
(Start: 22 @9762 has 123 MA's), (50, 9909), (68, 9972), (75, 10020), (79, 10044), (90, 10101), (92, 10110), (104, 10173), (107, 10182), (109, 10188), (112, 10197), (133, 10281), (141, 10326), (147, 10356), (168, 10446), (178, 10506), (196, 10563), (204, 10584), (234, 10680), (235, 10683), (239, 10695), (253, 10740), (278, 10806), (287, 10827), (292, 10839), (305, 10872), (333, 10956), (342, 10986), (359, 11025), (364, 11037), (383, 11091), (390, 11112), (392, 11118), (412, 11166), (421, 11187), (436, 11232), (454, 11289), (484, 11382), (522, 11508), (582, 11586), (590, 11616), (591, 11619), (600, 11667), (610, 11709), (626, 11757), (631, 11772), (643, 11814), (645, 11826), (675, 11925), (678, 11934), (697, 11991),

Gene: Etta_17 Start: 9649, Stop: 11919, Start Num: 22
Candidate Starts for Etta_17:
(Start: 22 @9649 has 123 MA's), (41, 9766), (50, 9796), (67, 9856), (75, 9907), (79, 9931), (90, 9988), (104, 10060), (109, 10075), (112, 10084), (133, 10168), (141, 10213), (147, 10243), (168, 10333), (178, 10393), (196, 10450), (204, 10471), (234, 10567), (235, 10570), (247, 10612), (278, 10693), (287, 10714), (292, 10726), (305, 10759), (333, 10843), (342, 10873), (359, 10912), (371, 10945), (372, 10951), (387, 10990), (390, 10999), (392, 11005), (403, 11041), (412, 11053), (423, 11083), (436, 11119), (454, 11176), (484, 11269), (506, 11341), (522, 11395), (582, 11473), (590, 11503), (591, 11506), (600, 11554), (610, 11596), (626, 11644), (631, 11659), (643, 11701), (667, 11788), (675, 11815), (697, 11881),

Gene: Eula_16 Start: 10360, Stop: 13122, Start Num: 17
Candidate Starts for Eula_16:
(Start: 17 @10360 has 71 MA's), (47, 10513), (58, 10549), (61, 10558), (88, 10699), (96, 10744), (118, 10828), (124, 10846), (159, 11017), (173, 11083), (175, 11095), (176, 11104), (190, 11152), (193, 11161), (219, 11245), (221, 11254), (223, 11260), (227, 11272), (229, 11284), (233, 11296), (255, 11377), (294, 11464), (305, 11491), (308, 11500), (338, 11599), (386, 11734), (393, 11758), (461, 11947), (495, 12061), (504, 12088), (543, 12223), (561, 12283), (588, 12361), (593, 12382), (601, 12430), (626, 12523), (641, 12568), (644, 12583), (654, 12622), (670, 12691), (675, 12709), (676, 12712), (679, 12724), (688, 12751), (727, 12877), (730, 12892), (734, 12907),

Gene: Exploradora_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for Exploradora_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058),

(422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: Ezurina_16 Start: 9139, Stop: 11424, Start Num: 18
Candidate Starts for Ezurina_16:
(Start: 18 @9139 has 8 MA's), (49, 9295), (73, 9397), (122, 9613), (123, 9616), (151, 9757), (186, 9904), (208, 9967), (285, 10084), (298, 10117), (307, 10135), (395, 10258), (426, 10333), (439, 10375), (441, 10381), (456, 10423), (460, 10435), (461, 10438), (462, 10441), (480, 10495), (486, 10516), (488, 10525), (489, 10528), (492, 10537), (494, 10546), (496, 10552), (502, 10570), (503, 10573), (506, 10582), (511, 10603), (513, 10612), (516, 10624), (539, 10681), (545, 10708), (546, 10711), (572, 10777), (587, 10831), (597, 10885), (598, 10888), (601, 10900), (617, 10957), (618, 10963), (628, 10990), (643, 11041), (651, 11074), (652, 11077), (675, 11170), (677, 11176), (694, 11227), (705, 11251), (707, 11260), (709, 11263), (756, 11419),

Gene: Fabyndrax_16 Start: 10261, Stop: 12672, Start Num: 23
Candidate Starts for Fabyndrax_16:
(Start: 23 @10261 has 80 MA's), (24, 10276), (29, 10294), (41, 10375), (66, 10459), (68, 10468), (79, 10540), (90, 10597), (92, 10606), (104, 10669), (109, 10684), (112, 10693), (133, 10777), (141, 10822), (147, 10852), (153, 10885), (156, 10894), (168, 10942), (178, 11002), (196, 11059), (226, 11146), (234, 11176), (235, 11179), (239, 11191), (241, 11200), (261, 11257), (278, 11302), (308, 11377), (333, 11452), (352, 11509), (353, 11512), (371, 11554), (372, 11560), (383, 11587), (392, 11614), (422, 11686), (436, 11728), (439, 11740), (443, 11752), (454, 11785), (464, 11815), (465, 11818), (475, 11848), (479, 11860), (513, 11980), (527, 12019), (551, 12115), (590, 12244), (591, 12247), (600, 12295), (631, 12400), (643, 12445), (653, 12484), (655, 12490), (664, 12529), (675, 12568), (678, 12577), (697, 12634), (706, 12661), (708, 12664),

Gene: FarmerDoug_17 Start: 9472, Stop: 11733, Start Num: 23
Candidate Starts for FarmerDoug_17:
(Start: 23 @9472 has 80 MA's), (41, 9586), (50, 9616), (75, 9727), (79, 9751), (90, 9808), (92, 9817), (107, 9889), (109, 9895), (112, 9904), (133, 9988), (141, 10033), (147, 10063), (156, 10105), (168, 10153), (178, 10213), (196, 10270), (204, 10291), (234, 10387), (235, 10390), (239, 10402), (247, 10432), (278, 10513), (287, 10534), (292, 10546), (305, 10579), (333, 10663), (339, 10678), (342, 10693), (364, 10744), (371, 10765), (372, 10771), (387, 10810), (398, 10843), (412, 10873), (423, 10903), (436, 10939), (451, 10987), (454, 10996), (484, 11089), (506, 11161), (522, 11215), (582, 11293), (590, 11323), (591, 11326), (600, 11374), (626, 11464), (631, 11479), (640, 11509), (643, 11521), (674, 11623), (675, 11629), (678, 11638), (697, 11695),

Gene: Figueroism_17 Start: 9349, Stop: 11619, Start Num: 22
Candidate Starts for Figueroism_17:
(Start: 22 @9349 has 123 MA's), (41, 9466), (50, 9496), (75, 9607), (79, 9631), (90, 9688), (104, 9760), (109, 9775), (112, 9784), (133, 9868), (141, 9913), (147, 9943), (168, 10033), (178, 10093), (196, 10150), (204, 10171), (234, 10267), (235, 10270), (247, 10312), (278, 10393), (287, 10414), (292, 10426), (305, 10459), (333, 10543), (342, 10573), (359, 10612), (371, 10645), (372, 10651), (383, 10678), (387, 10690), (390, 10699), (392, 10705), (403, 10741), (412, 10753), (423, 10783), (436, 10819), (454, 10876), (484, 10969), (506, 11041), (522, 11095), (582, 11173), (590, 11203), (591, 11206), (600, 11254), (610, 11296), (626, 11344), (631, 11359), (643, 11401), (675, 11515), (678, 11524), (697, 11581),

Gene: Finalfrontier_17 Start: 10873, Stop: 13635, Start Num: 17
Candidate Starts for Finalfrontier_17:
(Start: 17 @10873 has 71 MA's), (47, 11026), (49, 11032), (58, 11062), (61, 11071), (67, 11095), (79, 11167), (124, 11359), (144, 11458), (159, 11530), (175, 11608), (176, 11617), (178, 11620), (190,

11665), (193, 11674), (219, 11758), (221, 11767), (223, 11773), (227, 11785), (229, 11797), (233, 11809), (255, 11890), (294, 11977), (305, 12004), (308, 12013), (338, 12112), (350, 12151), (386, 12247), (393, 12271), (416, 12325), (436, 12382), (461, 12460), (495, 12574), (504, 12601), (527, 12676), (543, 12736), (561, 12796), (588, 12874), (593, 12895), (601, 12943), (626, 13036), (641, 13081), (644, 13096), (646, 13108), (654, 13135), (670, 13204), (676, 13225), (679, 13237), (688, 13264), (727, 13390), (730, 13405), (734, 13420), (761, 13546), (768, 13621),

Gene: Finny_16 Start: 9431, Stop: 11839, Start Num: 23
Candidate Starts for Finny_16:
(Start: 23 @9431 has 80 MA's), (24, 9446), (41, 9545), (67, 9635), (79, 9710), (90, 9767), (92, 9776), (104, 9839), (109, 9854), (112, 9863), (133, 9947), (141, 9992), (147, 10022), (156, 10064), (168, 10112), (178, 10172), (196, 10229), (226, 10316), (234, 10346), (235, 10349), (239, 10361), (287, 10493), (290, 10499), (309, 10550), (326, 10601), (327, 10604), (333, 10622), (339, 10637), (342, 10652), (348, 10664), (364, 10703), (383, 10757), (390, 10778), (392, 10784), (422, 10856), (423, 10862), (436, 10898), (437, 10901), (454, 10955), (475, 11018), (479, 11030), (484, 11048), (506, 11120), (513, 11150), (526, 11186), (535, 11210), (543, 11249), (551, 11285), (554, 11294), (562, 11315), (590, 11414), (591, 11417), (600, 11465), (626, 11555), (631, 11570), (643, 11615), (649, 11642), (655, 11660), (659, 11681), (664, 11699), (667, 11708), (674, 11729), (675, 11735), (678, 11744), (697, 11801), (706, 11828), (708, 11831),

Gene: FiveHead_15 Start: 8974, Stop: 11217, Start Num: 21
Candidate Starts for FiveHead_15:
(Start: 21 @8974 has 80 MA's), (36, 9061), (60, 9163), (73, 9229), (94, 9334), (122, 9445), (124, 9451), (143, 9547), (151, 9589), (186, 9736), (191, 9754), (276, 9856), (389, 10012), (418, 10090), (437, 10138), (439, 10147), (445, 10165), (460, 10207), (463, 10216), (472, 10243), (481, 10273), (491, 10306), (521, 10408), (524, 10417), (529, 10429), (536, 10450), (539, 10453), (546, 10483), (584, 10591), (651, 10846), (655, 10858), (675, 10942), (677, 10948), (686, 10978),

Gene: FlameThrower_15 Start: 9717, Stop: 12494, Start Num: 17
Candidate Starts for FlameThrower_15:
(Start: 17 @9717 has 71 MA's), (24, 9750), (43, 9858), (67, 9936), (117, 10188), (119, 10194), (120, 10197), (149, 10338), (173, 10446), (178, 10470), (246, 10698), (258, 10746), (260, 10749), (269, 10767), (273, 10776), (278, 10797), (345, 10995), (349, 11004), (350, 11007), (373, 11070), (393, 11127), (432, 11226), (434, 11232), (436, 11238), (495, 11430), (504, 11457), (517, 11502), (543, 11592), (549, 11616), (553, 11634), (561, 11652), (580, 11706), (588, 11736), (601, 11805), (608, 11829), (623, 11886), (624, 11889), (641, 11949), (644, 11964), (676, 12084), (679, 12096), (688, 12123), (700, 12165), (727, 12249), (730, 12264), (731, 12267), (768, 12480),

Gene: Flutur_16 Start: 10730, Stop: 13045, Start Num: 21
Candidate Starts for Flutur_16:
(Start: 21 @10730 has 80 MA's), (47, 10886), (49, 10895), (71, 10976), (81, 11036), (82, 11039), (89, 11081), (105, 11153), (128, 11234), (129, 11237), (134, 11267), (150, 11351), (161, 11393), (166, 11408), (172, 11432), (183, 11492), (296, 11717), (371, 11813), (393, 11876), (396, 11885), (424, 11933), (428, 11942), (432, 11954), (442, 11987), (457, 12029), (470, 12068), (488, 12128), (535, 12269), (564, 12344), (573, 12356), (585, 12398), (587, 12407), (593, 12431), (608, 12500), (611, 12518), (615, 12530), (645, 12629), (651, 12650), (652, 12653), (660, 12686), (681, 12764), (695, 12803), (718, 12863), (741, 12944), (752, 12989), (762, 13034),

Gene: Fulton_18 Start: 9855, Stop: 12296, Start Num: 23
Candidate Starts for Fulton_18:
(Start: 23 @9855 has 80 MA's), (29, 9888), (72, 10089), (79, 10131), (90, 10188), (93, 10206), (98, 10230), (112, 10284), (117, 10305), (133, 10368), (141, 10413), (150, 10455), (155, 10473), (168, 10524), (187, 10620), (204, 10680), (219, 10722), (226, 10746), (234, 10776), (235, 10779), (238,

10788), (253, 10836), (254, 10842), (295, 10941), (300, 10956), (308, 10977), (333, 11052), (334, 11055), (353, 11112), (367, 11142), (392, 11214), (401, 11244), (404, 11253), (422, 11286), (423, 11292), (428, 11304), (438, 11337), (443, 11352), (454, 11385), (465, 11418), (479, 11460), (518, 11592), (535, 11640), (536, 11646), (538, 11658), (555, 11727), (558, 11736), (582, 11814), (590, 11844), (630, 11997), (631, 12000), (633, 12012), (647, 12075), (653, 12093), (664, 12138), (680, 12198), (708, 12279), (710, 12282),

Gene: GaeCeo_18 Start: 9471, Stop: 11879, Start Num: 23
Candidate Starts for GaeCeo_18:
(10, 9417), (Start: 23 @9471 has 80 MA's), (41, 9585), (67, 9675), (75, 9726), (79, 9750), (90, 9807), (109, 9894), (112, 9903), (133, 9987), (141, 10032), (147, 10062), (153, 10095), (168, 10152), (178, 10212), (196, 10269), (226, 10356), (234, 10386), (235, 10389), (253, 10446), (290, 10539), (309, 10590), (326, 10641), (333, 10662), (335, 10668), (371, 10764), (372, 10770), (375, 10779), (392, 10824), (422, 10896), (462, 11019), (475, 11058), (506, 11160), (513, 11190), (522, 11214), (526, 11226), (537, 11259), (562, 11355), (569, 11379), (590, 11454), (591, 11457), (600, 11505), (626, 11595), (630, 11607), (675, 11775), (678, 11784), (680, 11790), (697, 11841), (706, 11868), (708, 11871),

Gene: Galaxy_16 Start: 10481, Stop: 12862, Start Num: 17
Candidate Starts for Galaxy_16:
(Start: 17 @10481 has 71 MA's), (25, 10517), (29, 10535), (53, 10667), (58, 10685), (80, 10790), (115, 10949), (117, 10958), (124, 10979), (127, 10997), (138, 11066), (153, 11141), (157, 11153), (170, 11207), (187, 11285), (227, 11408), (250, 11483), (272, 11537), (294, 11597), (295, 11600), (298, 11612), (305, 11627), (321, 11657), (339, 11714), (350, 11732), (358, 11750), (371, 11786), (390, 11843), (395, 11858), (401, 11879), (422, 11921), (427, 11936), (428, 11939), (432, 11951), (439, 11975), (451, 12011), (453, 12017), (456, 12026), (461, 12044), (472, 12077), (475, 12086), (482, 12110), (486, 12122), (490, 12140), (500, 12173), (523, 12242), (526, 12251), (527, 12254), (535, 12275), (573, 12371), (595, 12458), (603, 12500), (608, 12512), (632, 12599), (647, 12662), (651, 12674), (685, 12794),

Gene: Gambol_16 Start: 10243, Stop: 12663, Start Num: 21
Candidate Starts for Gambol_16:
(Start: 21 @10243 has 80 MA's), (36, 10330), (47, 10387), (62, 10435), (65, 10447), (75, 10507), (95, 10618), (116, 10699), (144, 10825), (147, 10840), (160, 10894), (201, 11068), (240, 11152), (248, 11173), (257, 11194), (266, 11215), (284, 11266), (335, 11341), (351, 11362), (368, 11395), (388, 11452), (399, 11494), (404, 11509), (421, 11560), (433, 11596), (478, 11704), (484, 11725), (497, 11767), (501, 11779), (520, 11833), (539, 11881), (572, 11977), (609, 12133), (615, 12154), (619, 12166), (636, 12217), (675, 12367), (686, 12403), (719, 12484), (749, 12595),

Gene: GardenB_17 Start: 9762, Stop: 12026, Start Num: 23
Candidate Starts for GardenB_17:
(Start: 23 @9762 has 80 MA's), (67, 9966), (68, 9969), (75, 10017), (79, 10041), (90, 10098), (104, 10170), (109, 10185), (112, 10194), (133, 10278), (141, 10323), (147, 10353), (168, 10443), (178, 10503), (196, 10560), (204, 10581), (234, 10677), (235, 10680), (239, 10692), (253, 10737), (287, 10824), (292, 10836), (305, 10869), (308, 10878), (329, 10944), (333, 10953), (339, 10968), (342, 10983), (364, 11034), (387, 11100), (390, 11109), (392, 11115), (412, 11163), (421, 11184), (436, 11229), (454, 11286), (498, 11427), (506, 11451), (522, 11505), (582, 11583), (590, 11613), (591, 11616), (600, 11664), (626, 11754), (631, 11769), (632, 11772), (640, 11799), (675, 11922), (678, 11931), (697, 11988),

Gene: Garey24_17 Start: 9628, Stop: 11898, Start Num: 22
Candidate Starts for Garey24_17:

(Start: 22 @9628 has 123 MA's), (41, 9745), (50, 9775), (67, 9835), (75, 9886), (79, 9910), (90, 9967), (104, 10039), (109, 10054), (112, 10063), (133, 10147), (141, 10192), (147, 10222), (168, 10312), (178, 10372), (196, 10429), (204, 10450), (226, 10516), (234, 10546), (235, 10549), (239, 10561), (278, 10672), (290, 10699), (309, 10750), (333, 10822), (342, 10852), (387, 10969), (392, 10984), (436, 11098), (484, 11248), (522, 11374), (582, 11452), (590, 11482), (591, 11485), (600, 11533), (610, 11575), (626, 11623), (631, 11638), (643, 11680), (667, 11767), (675, 11794), (697, 11860),

Gene: Gargoyle_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for Gargoyle_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (422, 10792), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Gelo_17 Start: 9649, Stop: 11919, Start Num: 22
Candidate Starts for Gelo_17:
(Start: 22 @9649 has 123 MA's), (41, 9766), (50, 9796), (67, 9856), (75, 9907), (79, 9931), (90, 9988), (104, 10060), (109, 10075), (112, 10084), (133, 10168), (141, 10213), (147, 10243), (168, 10333), (178, 10393), (196, 10450), (204, 10471), (234, 10567), (235, 10570), (247, 10612), (278, 10693), (287, 10714), (292, 10726), (305, 10759), (333, 10843), (342, 10873), (359, 10912), (371, 10945), (372, 10951), (383, 10978), (387, 10990), (390, 10999), (392, 11005), (403, 11041), (412, 11053), (423, 11083), (436, 11119), (454, 11176), (484, 11269), (506, 11341), (522, 11395), (582, 11473), (590, 11503), (591, 11506), (600, 11554), (610, 11596), (626, 11644), (631, 11659), (643, 11701), (667, 11788), (675, 11815), (697, 11881),

Gene: Gerri43_17 Start: 9567, Stop: 11855, Start Num: 16
Candidate Starts for Gerri43_17:
(Start: 16 @9567 has 3 MA's), (Start: 18 @9570 has 8 MA's), (37, 9669), (73, 9828), (122, 10044), (151, 10188), (177, 10299), (186, 10335), (197, 10377), (285, 10515), (297, 10545), (298, 10548), (307, 10566), (336, 10608), (396, 10692), (403, 10716), (426, 10764), (439, 10806), (441, 10812), (456, 10854), (462, 10872), (476, 10914), (480, 10926), (486, 10947), (492, 10968), (494, 10977), (496, 10983), (502, 11001), (503, 11004), (511, 11034), (513, 11043), (539, 11112), (545, 11139), (546, 11142), (572, 11208), (578, 11229), (585, 11253), (591, 11277), (597, 11316), (615, 11385), (618, 11394), (628, 11421), (651, 11505), (652, 11508), (675, 11601), (677, 11607), (694, 11658), (705, 11682), (707, 11691), (728, 11736), (756, 11850),

Gene: Gershwin_17 Start: 9667, Stop: 11937, Start Num: 22
Candidate Starts for Gershwin_17:
(Start: 22 @9667 has 123 MA's), (41, 9784), (50, 9814), (67, 9874), (75, 9925), (79, 9949), (90, 10006), (109, 10093), (112, 10102), (133, 10186), (141, 10231), (146, 10258), (147, 10261), (168, 10351), (178, 10411), (196, 10468), (204, 10489), (234, 10585), (235, 10588), (247, 10630), (278, 10711), (287, 10732), (292, 10744), (305, 10777), (330, 10855), (333, 10861), (342, 10891), (359, 10930), (371, 10963), (372, 10969), (377, 10981), (383, 10996), (387, 11008), (390, 11017), (392, 11023), (412, 11071), (422, 11095), (423, 11101), (436, 11137), (454, 11194), (506, 11359), (522, 11413), (582, 11491), (590, 11521), (591, 11524), (600, 11572), (626, 11662), (631, 11677), (643, 11719), (645, 11731), (650, 11746), (675, 11833), (678, 11842), (697, 11899),

Gene: Giorgio_16 Start: 10343, Stop: 12763, Start Num: 21
Candidate Starts for Giorgio_16:

(Start: 21 @10343 has 80 MA's), (36, 10430), (62, 10535), (65, 10547), (75, 10607), (95, 10718), (116, 10799), (144, 10925), (147, 10940), (160, 10994), (201, 11168), (240, 11252), (248, 11273), (266, 11315), (335, 11441), (351, 11462), (368, 11495), (388, 11552), (399, 11594), (404, 11609), (421, 11660), (433, 11696), (435, 11702), (478, 11804), (484, 11825), (497, 11867), (518, 11927), (520, 11933), (539, 11981), (572, 12077), (609, 12233), (615, 12254), (619, 12266), (636, 12317), (675, 12467), (686, 12503), (719, 12584), (743, 12671), (749, 12695),

Gene: Gisselle_14 Start: 9784, Stop: 12330, Start Num: 19
Candidate Starts for Gisselle_14:
(15, 9763), (Start: 19 @9784 has 29 MA's), (29, 9832), (42, 9913), (55, 9967), (68, 10009), (75, 10057), (76, 10072), (78, 10078), (114, 10240), (126, 10285), (136, 10336), (137, 10339), (185, 10564), (191, 10585), (205, 10639), (212, 10657), (213, 10660), (222, 10690), (366, 11026), (384, 11080), (387, 11086), (391, 11104), (393, 11110), (408, 11155), (418, 11188), (419, 11191), (434, 11239), (435, 11242), (438, 11254), (441, 11263), (457, 11308), (460, 11317), (467, 11338), (471, 11350), (472, 11353), (480, 11377), (481, 11383), (483, 11389), (489, 11410), (491, 11416), (497, 11437), (505, 11461), (508, 11470), (512, 11488), (518, 11509), (520, 11515), (536, 11560), (539, 11563), (541, 11572), (542, 11575), (577, 11674), (578, 11680), (592, 11734), (611, 11824), (651, 11956), (652, 11959), (665, 12013), (675, 12052), (681, 12070), (692, 12100), (695, 12109), (712, 12151), (746, 12271),

Gene: Glamour_15 Start: 9432, Stop: 11840, Start Num: 23
Candidate Starts for Glamour_15:
(Start: 23 @9432 has 80 MA's), (24, 9447), (41, 9546), (67, 9636), (79, 9711), (90, 9768), (92, 9777), (104, 9840), (109, 9855), (112, 9864), (133, 9948), (141, 9993), (147, 10023), (156, 10065), (168, 10113), (178, 10173), (196, 10230), (226, 10317), (234, 10347), (235, 10350), (239, 10362), (287, 10494), (290, 10500), (309, 10551), (326, 10602), (327, 10605), (339, 10638), (342, 10653), (348, 10665), (364, 10704), (383, 10758), (390, 10779), (392, 10785), (422, 10857), (423, 10863), (436, 10899), (437, 10902), (454, 10956), (475, 11019), (479, 11031), (484, 11049), (506, 11121), (513, 11151), (526, 11187), (535, 11211), (543, 11250), (551, 11286), (554, 11295), (562, 11316), (590, 11415), (591, 11418), (600, 11466), (626, 11556), (631, 11571), (643, 11616), (649, 11643), (655, 11661), (659, 11682), (664, 11700), (667, 11709), (674, 11730), (675, 11736), (678, 11745), (697, 11802), (706, 11829), (708, 11832),

Gene: GoingMerry_17 Start: 9375, Stop: 11645, Start Num: 22
Candidate Starts for GoingMerry_17:
(Start: 22 @9375 has 123 MA's), (41, 9492), (50, 9522), (67, 9582), (75, 9633), (79, 9657), (90, 9714), (104, 9786), (109, 9801), (112, 9810), (133, 9894), (141, 9939), (147, 9969), (168, 10059), (178, 10119), (196, 10176), (204, 10197), (234, 10293), (235, 10296), (247, 10338), (278, 10419), (287, 10440), (292, 10452), (305, 10485), (333, 10569), (342, 10599), (359, 10638), (371, 10671), (372, 10677), (383, 10704), (387, 10716), (390, 10725), (392, 10731), (403, 10767), (412, 10779), (423, 10809), (436, 10845), (454, 10902), (465, 10935), (484, 10995), (506, 11067), (582, 11199), (590, 11229), (591, 11232), (600, 11280), (610, 11322), (626, 11370), (631, 11385), (643, 11427), (650, 11454), (675, 11541), (678, 11550), (697, 11607),

Gene: Golden_17 Start: 9668, Stop: 12076, Start Num: 23
Candidate Starts for Golden_17:
(Start: 23 @9668 has 80 MA's), (32, 9719), (41, 9782), (59, 9842), (75, 9923), (79, 9947), (90, 10004), (109, 10091), (112, 10100), (133, 10184), (141, 10229), (147, 10259), (153, 10292), (168, 10349), (178, 10409), (196, 10466), (212, 10508), (219, 10529), (226, 10553), (234, 10583), (235, 10586), (239, 10598), (253, 10643), (282, 10721), (287, 10730), (290, 10736), (309, 10787), (325, 10835), (327, 10841), (333, 10859), (334, 10862), (339, 10874), (353, 10919), (364, 10940), (383, 10994), (392, 11021), (428, 11111), (506, 11357), (513, 11387), (527, 11426), (537, 11456), (538, 11465), (546, 11498), (562, 11552), (569, 11576), (590, 11651), (591, 11654), (600, 11702), (626, 11792),

(631, 11807), (641, 11840), (675, 11972), (678, 11981), (680, 11987), (697, 12038),

Gene: GoneGirl_18 Start: 9868, Stop: 12132, Start Num: 23
Candidate Starts for GoneGirl_18:
(Start: 23 @9868 has 80 MA's), (67, 10072), (68, 10075), (75, 10123), (79, 10147), (90, 10204), (104, 10276), (109, 10291), (112, 10300), (133, 10384), (141, 10429), (147, 10459), (168, 10549), (178, 10609), (196, 10666), (204, 10687), (234, 10783), (235, 10786), (239, 10798), (253, 10843), (287, 10930), (292, 10942), (305, 10975), (308, 10984), (329, 11050), (333, 11059), (339, 11074), (342, 11089), (364, 11140), (387, 11206), (390, 11215), (392, 11221), (412, 11269), (421, 11290), (436, 11335), (454, 11392), (498, 11533), (506, 11557), (522, 11611), (582, 11689), (590, 11719), (591, 11722), (600, 11770), (626, 11860), (631, 11875), (632, 11878), (640, 11905), (675, 12028), (678, 12037), (697, 12094),

Gene: Graynor_18 Start: 12633, Stop: 15188, Start Num: 19
Candidate Starts for Graynor_18:
(15, 12612), (Start: 19 @12633 has 29 MA's), (29, 12681), (42, 12762), (47, 12786), (68, 12858), (75, 12906), (76, 12921), (78, 12927), (114, 13089), (126, 13134), (136, 13185), (137, 13188), (142, 13218), (152, 13272), (173, 13356), (202, 13479), (222, 13539), (230, 13557), (235, 13572), (252, 13623), (351, 13854), (363, 13878), (387, 13947), (391, 13965), (393, 13971), (409, 14025), (413, 14037), (420, 14058), (428, 14082), (457, 14169), (465, 14193), (467, 14199), (468, 14202), (472, 14214), (479, 14235), (480, 14238), (481, 14244), (483, 14250), (488, 14268), (489, 14271), (491, 14277), (498, 14301), (505, 14322), (508, 14331), (512, 14349), (518, 14370), (521, 14379), (524, 14388), (536, 14421), (539, 14424), (541, 14433), (542, 14436), (554, 14487), (588, 14577), (611, 14685), (615, 14697), (622, 14718), (623, 14721), (651, 14817), (652, 14820), (665, 14874), (675, 14913), (695, 14970), (712, 15012), (730, 15060), (739, 15102), (746, 15132),

Gene: GreenHearts_18 Start: 12707, Stop: 15268, Start Num: 19
Candidate Starts for GreenHearts_18:
(15, 12686), (Start: 19 @12707 has 29 MA's), (35, 12797), (42, 12836), (50, 12872), (68, 12932), (75, 12980), (76, 12995), (114, 13163), (126, 13208), (136, 13259), (137, 13262), (152, 13346), (197, 13532), (207, 13568), (212, 13580), (225, 13622), (351, 13931), (387, 14024), (391, 14042), (393, 14048), (419, 14129), (420, 14135), (429, 14162), (438, 14192), (460, 14255), (465, 14270), (468, 14279), (469, 14282), (472, 14291), (480, 14315), (483, 14327), (485, 14333), (489, 14348), (491, 14354), (492, 14357), (498, 14378), (503, 14393), (508, 14408), (512, 14426), (513, 14432), (518, 14447), (521, 14456), (524, 14465), (536, 14498), (539, 14501), (542, 14513), (543, 14519), (546, 14531), (572, 14597), (577, 14612), (585, 14642), (587, 14651), (611, 14762), (623, 14798), (631, 14819), (651, 14894), (652, 14897), (665, 14951), (675, 14990), (695, 15047), (705, 15071), (722, 15113), (730, 15140), (746, 15209),

Gene: GreenIvy_18 Start: 9872, Stop: 12313, Start Num: 23
Candidate Starts for GreenIvy_18:
(Start: 23 @9872 has 80 MA's), (29, 9905), (72, 10106), (79, 10148), (90, 10205), (93, 10223), (98, 10247), (112, 10301), (117, 10322), (133, 10385), (141, 10430), (150, 10472), (155, 10490), (168, 10541), (187, 10637), (204, 10697), (219, 10739), (226, 10763), (234, 10793), (235, 10796), (238, 10805), (253, 10853), (254, 10859), (295, 10958), (300, 10973), (308, 10994), (333, 11069), (334, 11072), (353, 11129), (367, 11159), (392, 11231), (401, 11261), (404, 11270), (422, 11303), (423, 11309), (428, 11321), (438, 11354), (443, 11369), (454, 11402), (465, 11435), (475, 11465), (479, 11477), (518, 11609), (535, 11657), (536, 11663), (538, 11675), (555, 11744), (558, 11753), (582, 11831), (590, 11861), (630, 12014), (631, 12017), (633, 12029), (647, 12092), (653, 12110), (664, 12155), (680, 12215), (708, 12296), (710, 12299),

Gene: Greenhouse_18 Start: 12631, Stop: 15192, Start Num: 19
Candidate Starts for Greenhouse_18:

(15, 12610), (Start: 19 @12631 has 29 MA's), (35, 12721), (42, 12760), (56, 12817), (68, 12856), (75, 12904), (76, 12919), (114, 13087), (126, 13132), (136, 13183), (142, 13216), (185, 13411), (202, 13477), (207, 13492), (212, 13504), (225, 13546), (266, 13657), (299, 13744), (351, 13855), (366, 13888), (387, 13948), (393, 13972), (394, 13975), (419, 14053), (420, 14059), (421, 14062), (429, 14086), (438, 14116), (460, 14179), (465, 14194), (467, 14200), (468, 14203), (472, 14215), (480, 14239), (483, 14251), (485, 14257), (489, 14272), (491, 14278), (492, 14281), (498, 14302), (503, 14317), (508, 14332), (512, 14350), (513, 14356), (518, 14371), (521, 14380), (536, 14422), (539, 14425), (542, 14437), (543, 14443), (546, 14455), (560, 14503), (572, 14521), (577, 14536), (585, 14566), (587, 14575), (611, 14686), (623, 14722), (631, 14743), (651, 14818), (652, 14821), (665, 14875), (675, 14914), (695, 14971), (705, 14995), (722, 15037), (730, 15064), (746, 15133),

Gene: Greys_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Greys_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: Grist_16 Start: 10331, Stop: 13093, Start Num: 17
Candidate Starts for Grist_16:
(Start: 17 @10331 has 71 MA's), (47, 10484), (51, 10496), (67, 10553), (79, 10625), (113, 10778), (124, 10817), (159, 10988), (175, 11066), (178, 11078), (179, 11081), (190, 11123), (215, 11204), (221, 11225), (239, 11285), (244, 11303), (255, 11348), (264, 11366), (278, 11402), (305, 11462), (309, 11474), (350, 11609), (382, 11693), (393, 11729), (429, 11819), (461, 11918), (495, 12032), (504, 12059), (527, 12134), (543, 12194), (561, 12254), (588, 12332), (593, 12353), (601, 12401), (626, 12494), (641, 12539), (644, 12554), (646, 12566), (654, 12593), (670, 12662), (676, 12683), (679, 12695), (688, 12722), (727, 12848), (730, 12863), (734, 12878), (761, 13004), (768, 13079),

Gene: Gubbabump_17 Start: 9656, Stop: 11926, Start Num: 22
Candidate Starts for Gubbabump_17:
(Start: 22 @9656 has 123 MA's), (41, 9773), (50, 9803), (67, 9863), (75, 9914), (79, 9938), (90, 9995), (109, 10082), (112, 10091), (133, 10175), (141, 10220), (146, 10247), (147, 10250), (168, 10340), (178, 10400), (196, 10457), (204, 10478), (234, 10574), (235, 10577), (247, 10619), (278, 10700), (287, 10721), (292, 10733), (305, 10766), (330, 10844), (333, 10850), (342, 10880), (359, 10919), (371, 10952), (372, 10958), (383, 10985), (387, 10997), (390, 11006), (392, 11012), (412, 11060), (422, 11084), (423, 11090), (436, 11126), (454, 11183), (506, 11348), (522, 11402), (582, 11480), (590, 11510), (591, 11513), (600, 11561), (626, 11651), (631, 11666), (643, 11708), (645, 11720), (650, 11735), (675, 11822), (678, 11831), (697, 11888),

Gene: Guetzie_17 Start: 9662, Stop: 12070, Start Num: 23
Candidate Starts for Guetzie_17:
(Start: 23 @9662 has 80 MA's), (32, 9713), (41, 9776), (59, 9836), (75, 9917), (79, 9941), (90, 9998), (109, 10085), (112, 10094), (133, 10178), (141, 10223), (147, 10253), (153, 10286), (168, 10343), (178, 10403), (196, 10460), (212, 10502), (219, 10523), (226, 10547), (234, 10577), (235, 10580), (253, 10637), (282, 10715), (287, 10724), (290, 10730), (309, 10781), (325, 10829), (327, 10835), (333, 10853), (334, 10856), (339, 10868), (353, 10913), (364, 10934), (383, 10988), (392, 11015), (506, 11351), (513, 11381), (527, 11420), (537, 11450), (538, 11459), (546, 11492), (562, 11546), (569, 11570), (590, 11645), (591, 11648), (600, 11696), (626, 11786), (631, 11801), (641, 11834), (675, 11966), (678, 11975), (680, 11981), (689, 12008), (697, 12032),

Gene: Gumpizza_16 Start: 10336, Stop: 12756, Start Num: 21
Candidate Starts for Gumpizza_16:
(Start: 21 @10336 has 80 MA's), (36, 10423), (62, 10528), (65, 10540), (75, 10600), (95, 10711), (116, 10792), (144, 10918), (147, 10933), (160, 10987), (201, 11161), (240, 11245), (248, 11266), (266, 11308), (335, 11434), (351, 11455), (368, 11488), (388, 11545), (399, 11587), (404, 11602), (421, 11653), (433, 11689), (435, 11695), (478, 11797), (484, 11818), (497, 11860), (518, 11920), (520, 11926), (539, 11974), (572, 12070), (609, 12226), (615, 12247), (619, 12259), (636, 12310), (675, 12460), (686, 12496), (743, 12664), (749, 12688),

Gene: HairyMan_15 Start: 9170, Stop: 11575, Start Num: 23
Candidate Starts for HairyMan_15:
(Start: 23 @9170 has 80 MA's), (24, 9185), (68, 9374), (75, 9422), (79, 9446), (85, 9473), (90, 9503), (92, 9512), (104, 9575), (109, 9590), (112, 9599), (133, 9683), (141, 9728), (147, 9758), (168, 9848), (178, 9908), (196, 9965), (226, 10052), (234, 10082), (235, 10085), (254, 10148), (261, 10163), (278, 10208), (287, 10229), (296, 10250), (318, 10307), (326, 10337), (328, 10346), (342, 10388), (353, 10418), (377, 10478), (383, 10493), (392, 10520), (422, 10592), (436, 10634), (465, 10724), (475, 10754), (479, 10766), (513, 10886), (519, 10901), (527, 10925), (544, 10988), (555, 11033), (558, 11042), (569, 11075), (582, 11120), (590, 11150), (591, 11153), (600, 11201), (602, 11207), (626, 11291), (630, 11303), (631, 11306), (642, 11345), (655, 11396), (659, 11417), (674, 11465), (675, 11471), (678, 11480), (689, 11513), (697, 11537), (708, 11567),

Gene: Halsey_16 Start: 10335, Stop: 12755, Start Num: 21
Candidate Starts for Halsey_16:
(Start: 21 @10335 has 80 MA's), (36, 10422), (62, 10527), (65, 10539), (75, 10599), (95, 10710), (116, 10791), (144, 10917), (147, 10932), (160, 10986), (201, 11160), (240, 11244), (248, 11265), (266, 11307), (335, 11433), (351, 11454), (368, 11487), (388, 11544), (399, 11586), (404, 11601), (421, 11652), (433, 11688), (435, 11694), (478, 11796), (484, 11817), (497, 11859), (518, 11919), (520, 11925), (539, 11973), (572, 12069), (615, 12246), (619, 12258), (636, 12309), (658, 12390), (675, 12459), (686, 12495), (719, 12576), (726, 12591), (743, 12663), (749, 12687),

Gene: Hamlet_17 Start: 9771, Stop: 12038, Start Num: 22
Candidate Starts for Hamlet_17:
(Start: 22 @9771 has 123 MA's), (50, 9918), (68, 9981), (75, 10029), (79, 10053), (90, 10110), (92, 10119), (104, 10182), (107, 10191), (109, 10197), (112, 10206), (133, 10290), (141, 10335), (147, 10365), (168, 10455), (178, 10515), (196, 10572), (204, 10593), (234, 10689), (235, 10692), (239, 10704), (253, 10749), (278, 10815), (287, 10836), (292, 10848), (305, 10881), (333, 10965), (342, 10995), (359, 11034), (364, 11046), (383, 11100), (390, 11121), (392, 11127), (412, 11175), (421, 11196), (436, 11241), (454, 11298), (484, 11391), (522, 11517), (582, 11595), (590, 11625), (591, 11628), (600, 11676), (626, 11766), (631, 11781), (640, 11811), (675, 11934), (678, 11943), (697, 12000),

Gene: HanSolo_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for HanSolo_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: HankSprout_18 Start: 9534, Stop: 11804, Start Num: 22
Candidate Starts for HankSprout_18:
(Start: 22 @9534 has 123 MA's), (41, 9651), (50, 9681), (67, 9741), (75, 9792), (79, 9816), (90, 9873), (109, 9960), (112, 9969), (133, 10053), (141, 10098), (146, 10125), (147, 10128), (168, 10218), (178, 10278), (196, 10335), (204, 10356), (234, 10452), (235, 10455), (247, 10497), (278, 10578), (287, 10599), (292, 10611), (305, 10644), (330, 10722), (333, 10728), (342, 10758), (359, 10797), (371, 10830), (372, 10836), (383, 10863), (387, 10875), (390, 10884), (392, 10890), (412, 10938), (422, 10962), (423, 10968), (436, 11004), (454, 11061), (506, 11226), (522, 11280), (582, 11358), (590, 11388), (591, 11391), (600, 11439), (626, 11529), (631, 11544), (643, 11586), (645, 11598), (650, 11613), (675, 11700), (678, 11709), (697, 11766),

Gene: Hasitha_18 Start: 9873, Stop: 12314, Start Num: 23
Candidate Starts for Hasitha_18:
(Start: 23 @9873 has 80 MA's), (29, 9906), (79, 10149), (90, 10206), (93, 10224), (98, 10248), (112, 10302), (117, 10323), (133, 10386), (141, 10431), (150, 10473), (155, 10491), (168, 10542), (187, 10638), (204, 10698), (219, 10740), (226, 10764), (234, 10794), (235, 10797), (238, 10806), (253, 10854), (254, 10860), (291, 10950), (295, 10959), (300, 10974), (308, 10995), (333, 11070), (334, 11073), (353, 11130), (367, 11160), (392, 11232), (401, 11262), (404, 11271), (422, 11304), (423, 11310), (428, 11322), (438, 11355), (443, 11370), (454, 11403), (465, 11436), (475, 11466), (479, 11478), (518, 11610), (535, 11658), (536, 11664), (538, 11676), (555, 11745), (558, 11754), (582, 11832), (590, 11862), (630, 12015), (631, 12018), (633, 12030), (647, 12093), (653, 12111), (664, 12156), (680, 12216), (708, 12297), (710, 12300),

Gene: HavenFinLeoSun_18 Start: 9605, Stop: 11869, Start Num: 23
Candidate Starts for HavenFinLeoSun_18:
(Start: 23 @9605 has 80 MA's), (67, 9809), (68, 9812), (75, 9860), (79, 9884), (90, 9941), (92, 9950), (107, 10022), (109, 10028), (112, 10037), (133, 10121), (141, 10166), (147, 10196), (168, 10286), (178, 10346), (196, 10403), (204, 10424), (234, 10520), (235, 10523), (253, 10580), (255, 10589), (278, 10646), (292, 10679), (330, 10790), (333, 10796), (342, 10826), (359, 10865), (371, 10898), (372, 10904), (387, 10943), (390, 10952), (412, 11006), (421, 11027), (436, 11072), (451, 11120), (454, 11129), (498, 11270), (506, 11294), (522, 11348), (582, 11426), (590, 11456), (591, 11459), (600, 11507), (626, 11597), (630, 11609), (631, 11612), (654, 11690), (657, 11702), (675, 11765), (678, 11774), (697, 11831),

Gene: HeadNerd_14 Start: 9720, Stop: 12287, Start Num: 19
Candidate Starts for HeadNerd_14:
(15, 9699), (Start: 19 @9720 has 29 MA's), (29, 9768), (42, 9849), (47, 9873), (68, 9945), (75, 9993), (76, 10008), (78, 10014), (114, 10176), (135, 10269), (136, 10272), (137, 10275), (142, 10305), (154, 10362), (185, 10500), (191, 10521), (202, 10566), (212, 10593), (222, 10626), (230, 10644), (243, 10686), (266, 10743), (377, 11007), (387, 11034), (391, 11052), (393, 11058), (400, 11082), (408, 11103), (419, 11139), (427, 11166), (437, 11196), (438, 11202), (456, 11253), (467, 11286), (480, 11325), (481, 11331), (483, 11337), (486, 11346), (489, 11358), (491, 11364), (498, 11388), (505, 11409), (508, 11418), (518, 11457), (524, 11475), (536, 11508), (539, 11511), (542, 11523), (545, 11538), (560, 11589), (577, 11622), (581, 11640), (588, 11664), (596, 11706), (611, 11772), (615, 11784), (631, 11829), (651, 11904), (652, 11907), (665, 11961), (675, 12000), (683, 12027), (695, 12057), (701, 12069), (705, 12081), (707, 12090), (730, 12156), (739, 12198), (746, 12228),

Gene: HerculesXL_18 Start: 9965, Stop: 12403, Start Num: 23
Candidate Starts for HerculesXL_18:
(Start: 23 @9965 has 80 MA's), (35, 10037), (65, 10157), (79, 10241), (90, 10298), (93, 10316), (98, 10340), (112, 10394), (117, 10415), (133, 10478), (141, 10523), (155, 10583), (160, 10601), (168, 10634), (178, 10694), (186, 10724), (187, 10730), (198, 10769), (204, 10790), (226, 10856), (234, 10886), (235, 10889), (239, 10901), (253, 10946), (254, 10952), (278, 11012), (308, 11087), (309,

11090), (333, 11162), (339, 11177), (364, 11243), (383, 11297), (392, 11324), (401, 11354), (404, 11363), (422, 11396), (423, 11402), (428, 11414), (437, 11441), (441, 11456), (447, 11474), (454, 11495), (465, 11528), (475, 11558), (479, 11570), (506, 11660), (519, 11705), (527, 11729), (530, 11738), (535, 11750), (538, 11768), (551, 11825), (555, 11837), (582, 11924), (590, 11954), (591, 11957), (602, 12011), (605, 12023), (630, 12107), (631, 12110), (633, 12122), (636, 12140), (646, 12179), (682, 12314), (687, 12329), (706, 12386),

Gene: Huckleberry_14 Start: 9720, Stop: 12287, Start Num: 19
Candidate Starts for Huckleberry_14:
(15, 9699), (Start: 19 @9720 has 29 MA's), (29, 9768), (42, 9849), (47, 9873), (68, 9945), (75, 9993), (76, 10008), (78, 10014), (114, 10176), (135, 10269), (136, 10272), (137, 10275), (142, 10305), (154, 10362), (185, 10500), (191, 10521), (202, 10566), (212, 10593), (222, 10626), (230, 10644), (243, 10686), (266, 10743), (377, 11007), (387, 11034), (391, 11052), (393, 11058), (400, 11082), (408, 11103), (419, 11139), (427, 11166), (437, 11196), (438, 11202), (456, 11253), (467, 11286), (480, 11325), (481, 11331), (483, 11337), (486, 11346), (489, 11358), (491, 11364), (498, 11388), (505, 11409), (508, 11418), (518, 11457), (524, 11475), (536, 11508), (539, 11511), (542, 11523), (545, 11538), (560, 11589), (577, 11622), (581, 11640), (588, 11664), (596, 11706), (611, 11772), (615, 11784), (631, 11829), (651, 11904), (652, 11907), (665, 11961), (675, 12000), (683, 12027), (695, 12057), (701, 12069), (705, 12081), (707, 12090), (730, 12156), (739, 12198), (746, 12228),

Gene: HungryHenry_17 Start: 9655, Stop: 11925, Start Num: 22
Candidate Starts for HungryHenry_17:
(Start: 22 @9655 has 123 MA's), (41, 9772), (50, 9802), (67, 9862), (75, 9913), (79, 9937), (90, 9994), (109, 10081), (112, 10090), (133, 10174), (141, 10219), (146, 10246), (147, 10249), (168, 10339), (178, 10399), (196, 10456), (204, 10477), (234, 10573), (235, 10576), (247, 10618), (278, 10699), (287, 10720), (292, 10732), (305, 10765), (330, 10843), (333, 10849), (342, 10879), (359, 10918), (371, 10951), (372, 10957), (377, 10969), (383, 10984), (387, 10996), (390, 11005), (392, 11011), (412, 11059), (422, 11083), (423, 11089), (436, 11125), (454, 11182), (506, 11347), (522, 11401), (582, 11479), (590, 11509), (591, 11512), (600, 11560), (626, 11650), (631, 11665), (643, 11707), (645, 11719), (650, 11734), (675, 11821), (678, 11830), (697, 11887),

Gene: Huntingdon_18 Start: 12617, Stop: 15178, Start Num: 19
Candidate Starts for Huntingdon_18:
(15, 12596), (Start: 19 @12617 has 29 MA's), (35, 12707), (42, 12746), (50, 12782), (68, 12842), (76, 12905), (114, 13073), (126, 13118), (135, 13166), (136, 13169), (137, 13172), (152, 13256), (154, 13259), (185, 13397), (202, 13463), (212, 13490), (225, 13532), (351, 13841), (366, 13874), (387, 13934), (393, 13958), (419, 14039), (420, 14045), (421, 14048), (429, 14072), (438, 14102), (445, 14123), (462, 14171), (467, 14186), (472, 14201), (480, 14225), (483, 14237), (485, 14243), (489, 14258), (491, 14264), (503, 14303), (505, 14309), (508, 14318), (512, 14336), (513, 14342), (516, 14354), (518, 14357), (521, 14366), (528, 14384), (536, 14408), (539, 14411), (542, 14423), (546, 14441), (572, 14507), (577, 14522), (585, 14552), (587, 14561), (599, 14621), (611, 14672), (623, 14708), (651, 14804), (652, 14807), (665, 14861), (675, 14900), (683, 14927), (695, 14957), (705, 14981), (722, 15023), (730, 15050), (746, 15119),

Gene: IUFootball_15 Start: 9206, Stop: 11569, Start Num: 21
Candidate Starts for IUFootball_15:
(Start: 21 @9206 has 80 MA's), (60, 9395), (73, 9461), (87, 9536), (101, 9602), (122, 9677), (123, 9680), (124, 9683), (140, 9770), (143, 9779), (151, 9821), (186, 9968), (191, 9986), (227, 10061), (251, 10094), (270, 10127), (346, 10268), (406, 10391), (411, 10400), (429, 10439), (435, 10457), (439, 10472), (460, 10532), (462, 10538), (464, 10544), (468, 10556), (469, 10559), (486, 10613), (489, 10625), (493, 10637), (497, 10652), (518, 10724), (524, 10742), (528, 10751), (534, 10766), (539, 10778), (543, 10796), (546, 10808), (609, 11030), (651, 11171), (652, 11174), (660, 11207), (664, 11222), (665, 11228), (675, 11267), (694, 11324), (712, 11366), (728, 11414),

Gene: Icarian_17 Start: 10347, Stop: 12977, Start Num: 17
Candidate Starts for Icarian_17:
(Start: 17 @10347 has 71 MA's), (30, 10407), (47, 10500), (51, 10512), (61, 10545), (79, 10641), (113, 10794), (124, 10833), (159, 11004), (175, 11082), (179, 11097), (184, 11118), (186, 11124), (200, 11178), (221, 11241), (239, 11301), (255, 11364), (264, 11382), (278, 11418), (305, 11478), (349, 11487), (350, 11490), (365, 11523), (371, 11544), (393, 11610), (422, 11679), (495, 11913), (496, 11916), (504, 11940), (510, 11964), (543, 12075), (561, 12135), (588, 12219), (592, 12237), (600, 12285), (607, 12309), (608, 12312), (617, 12348), (623, 12369), (624, 12372), (641, 12432), (644, 12447), (676, 12567), (679, 12579), (727, 12732), (730, 12747), (734, 12762), (753, 12849), (763, 12891),

Gene: Ilzat_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for Ilzat_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: IndyLu_16 Start: 10331, Stop: 13093, Start Num: 17
Candidate Starts for IndyLu_16:
(Start: 17 @10331 has 71 MA's), (47, 10484), (51, 10496), (67, 10553), (79, 10625), (113, 10778), (124, 10817), (159, 10988), (175, 11066), (178, 11078), (179, 11081), (190, 11123), (215, 11204), (221, 11225), (239, 11285), (244, 11303), (255, 11348), (264, 11366), (278, 11402), (305, 11462), (309, 11474), (316, 11501), (350, 11609), (382, 11693), (393, 11729), (429, 11819), (461, 11918), (495, 12032), (504, 12059), (527, 12134), (543, 12194), (561, 12254), (588, 12332), (593, 12353), (601, 12401), (626, 12494), (641, 12539), (644, 12554), (646, 12566), (654, 12593), (670, 12662), (676, 12683), (679, 12695), (688, 12722), (727, 12848), (730, 12863), (734, 12878), (761, 13004), (768, 13079),

Gene: Inventa_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for Inventa_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Ioannes_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Ioannes_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600,

11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: Iter_16 Start: 10739, Stop: 13054, Start Num: 21
Candidate Starts for Iter_16:
(Start: 21 @10739 has 80 MA's), (47, 10895), (52, 10913), (59, 10937), (71, 10985), (81, 11045), (89, 11090), (105, 11162), (129, 11246), (134, 11276), (145, 11330), (150, 11360), (166, 11417), (172, 11441), (183, 11501), (185, 11507), (296, 11726), (396, 11894), (424, 11942), (457, 12038), (470, 12077), (476, 12095), (488, 12137), (495, 12161), (512, 12218), (517, 12230), (558, 12341), (583, 12401), (587, 12416), (611, 12527), (645, 12638), (651, 12659), (652, 12662), (660, 12695), (681, 12773), (695, 12812), (729, 12902), (732, 12914), (752, 12998),

Gene: IttyBittyPiggy_16 Start: 10723, Stop: 13035, Start Num: 21
Candidate Starts for IttyBittyPiggy_16:
(Start: 21 @10723 has 80 MA's), (47, 10879), (54, 10903), (71, 10969), (72, 10981), (81, 11029), (105, 11146), (128, 11227), (129, 11230), (134, 11260), (150, 11344), (166, 11401), (172, 11425), (183, 11485), (185, 11491), (383, 11839), (396, 11878), (424, 11926), (442, 11980), (457, 12022), (470, 12061), (488, 12121), (517, 12214), (579, 12370), (582, 12382), (585, 12391), (611, 12511), (651, 12643), (652, 12646), (681, 12757), (695, 12796), (705, 12820), (718, 12856), (723, 12871), (749, 12970),

Gene: Ixel_17 Start: 9554, Stop: 11992, Start Num: 23
Candidate Starts for Ixel_17:
(Start: 23 @9554 has 80 MA's), (24, 9569), (35, 9626), (79, 9830), (90, 9887), (93, 9905), (112, 9983), (117, 10004), (133, 10067), (141, 10112), (168, 10223), (178, 10283), (186, 10313), (187, 10319), (226, 10445), (234, 10475), (235, 10478), (253, 10535), (278, 10601), (287, 10622), (309, 10679), (322, 10715), (329, 10742), (333, 10751), (364, 10832), (387, 10898), (390, 10907), (392, 10913), (401, 10943), (404, 10952), (422, 10985), (423, 10991), (428, 11003), (437, 11030), (441, 11045), (443, 11051), (454, 11084), (465, 11117), (475, 11147), (479, 11159), (518, 11291), (530, 11327), (538, 11357), (551, 11414), (558, 11435), (581, 11510), (582, 11513), (588, 11534), (590, 11543), (605, 11612), (630, 11696), (631, 11699), (636, 11729), (647, 11774), (680, 11897), (706, 11975),

Gene: Jabb_16 Start: 10399, Stop: 13161, Start Num: 17
Candidate Starts for Jabb_16:
(Start: 17 @10399 has 71 MA's), (47, 10552), (49, 10558), (58, 10588), (61, 10597), (67, 10621), (79, 10693), (124, 10885), (144, 10984), (159, 11056), (175, 11134), (176, 11143), (178, 11146), (190, 11191), (193, 11200), (219, 11284), (221, 11293), (223, 11299), (227, 11311), (229, 11323), (233, 11335), (255, 11416), (294, 11503), (305, 11530), (308, 11539), (338, 11638), (350, 11677), (386, 11773), (393, 11797), (416, 11851), (436, 11908), (461, 11986), (495, 12100), (504, 12127), (543, 12262), (561, 12322), (588, 12400), (593, 12421), (601, 12469), (626, 12562), (641, 12607), (644, 12622), (654, 12661), (670, 12730), (675, 12748), (676, 12751), (679, 12763), (688, 12790), (727, 12916), (730, 12931), (734, 12946),

Gene: Janeemi_17 Start: 11821, Stop: 14298, Start Num: 21
Candidate Starts for Janeemi_17:
(Start: 21 @11821 has 80 MA's), (47, 11977), (49, 11986), (105, 12244), (134, 12358), (137, 12367), (145, 12412), (166, 12499), (172, 12523), (183, 12583), (185, 12589), (194, 12613), (217, 12691), (229, 12724), (278, 12859), (296, 12901), (372, 13072), (387, 13111), (396, 13138), (424, 13186), (457, 13282), (470, 13321), (476, 13339), (480, 13351), (488, 13381), (512, 13462), (564, 13597), (583, 13645), (587, 13660), (608, 13753), (611, 13771), (615, 13783), (651, 13903), (652, 13906), (681, 14017), (695, 14056), (722, 14131), (729, 14146),

Gene: Janus167_17 Start: 9654, Stop: 11924, Start Num: 22

Candidate Starts for Janus167_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: JasmineDragon_15 Start: 8971, Stop: 11214, Start Num: 21
Candidate Starts for JasmineDragon_15:
(Start: 21 @8971 has 80 MA's), (36, 9058), (60, 9160), (73, 9226), (94, 9331), (122, 9442), (124, 9448), (143, 9544), (151, 9586), (186, 9733), (191, 9751), (279, 9868), (296, 9895), (317, 9928), (368, 9964), (389, 10012), (401, 10051), (418, 10090), (437, 10138), (439, 10147), (442, 10156), (445, 10165), (460, 10207), (472, 10243), (476, 10255), (489, 10300), (491, 10306), (498, 10330), (509, 10366), (513, 10384), (521, 10408), (524, 10417), (529, 10429), (536, 10450), (539, 10453), (546, 10483), (617, 10729), (651, 10846), (675, 10942), (677, 10948), (686, 10978),

Gene: JasonD_19 Start: 9789, Stop: 12053, Start Num: 23
Candidate Starts for JasonD_19:
(Start: 23 @9789 has 80 MA's), (67, 9993), (68, 9996), (75, 10044), (79, 10068), (90, 10125), (92, 10134), (107, 10206), (109, 10212), (112, 10221), (133, 10305), (141, 10350), (147, 10380), (168, 10470), (178, 10530), (196, 10587), (204, 10608), (234, 10704), (235, 10707), (239, 10719), (253, 10764), (285, 10848), (329, 10971), (333, 10980), (342, 11010), (359, 11049), (371, 11082), (372, 11088), (387, 11127), (412, 11190), (421, 11211), (436, 11256), (451, 11304), (454, 11313), (484, 11406), (506, 11478), (522, 11532), (582, 11610), (590, 11640), (591, 11643), (600, 11691), (626, 11781), (630, 11793), (631, 11796), (657, 11886), (675, 11949), (678, 11958), (697, 12015),

Gene: JasperRussell_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for JasperRussell_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: Jemerald_18 Start: 10820, Stop: 13258, Start Num: 23
Candidate Starts for Jemerald_18:
(Start: 23 @10820 has 80 MA's), (24, 10835), (50, 10964), (67, 11024), (75, 11075), (79, 11099), (90, 11156), (93, 11174), (98, 11198), (112, 11252), (117, 11273), (133, 11336), (141, 11381), (150, 11423), (168, 11492), (178, 11552), (186, 11582), (187, 11588), (198, 11627), (204, 11648), (219, 11690), (226, 11714), (234, 11744), (235, 11747), (253, 11804), (254, 11810), (255, 11813), (261, 11825), (277, 11867), (309, 11948), (317, 11966), (322, 11984), (330, 12014), (333, 12020), (334, 12023), (353, 12080), (390, 12176), (392, 12182), (401, 12212), (404, 12221), (422, 12254), (423, 12260), (428, 12272), (441, 12314), (443, 12320), (454, 12353), (475, 12416), (479, 12428), (527, 12587), (535, 12608), (537, 12617), (538, 12626), (551, 12683), (582, 12782), (588, 12803), (590, 12812), (610, 12905), (631, 12968), (646, 13037), (647, 13043), (649, 13049), (658, 13079), (662, 13100), (671, 13130), (674, 13139), (690, 13190), (706, 13241), (710, 13244),

Gene: Jenos_19 Start: 10116, Stop: 12380, Start Num: 23
Candidate Starts for Jenos_19:
(Start: 23 @10116 has 80 MA's), (67, 10320), (68, 10323), (75, 10371), (79, 10395), (90, 10452), (92, 10461), (107, 10533), (109, 10539), (112, 10548), (133, 10632), (141, 10677), (147, 10707), (168, 10797), (178, 10857), (196, 10914), (204, 10935), (234, 11031), (235, 11034), (239, 11046), (241, 11055), (253, 11091), (285, 11175), (327, 11289), (333, 11307), (339, 11322), (342, 11337), (359, 11376), (364, 11388), (387, 11454), (390, 11463), (392, 11469), (412, 11517), (422, 11541), (423, 11547), (436, 11583), (451, 11631), (454, 11640), (484, 11733), (506, 11805), (522, 11859), (582, 11937), (590, 11967), (591, 11970), (600, 12018), (626, 12108), (630, 12120), (631, 12123), (657, 12213), (675, 12276), (678, 12285), (697, 12342),

Gene: Jerbirus_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for Jerbirus_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: JeriBeth_17 Start: 9501, Stop: 11771, Start Num: 22
Candidate Starts for JeriBeth_17:
(Start: 22 @9501 has 123 MA's), (41, 9618), (50, 9648), (67, 9708), (75, 9759), (79, 9783), (90, 9840), (109, 9927), (112, 9936), (133, 10020), (141, 10065), (146, 10092), (147, 10095), (168, 10185), (178, 10245), (196, 10302), (204, 10323), (234, 10419), (235, 10422), (247, 10464), (278, 10545), (287, 10566), (292, 10578), (305, 10611), (330, 10689), (333, 10695), (342, 10725), (359, 10764), (371, 10797), (372, 10803), (377, 10815), (383, 10830), (387, 10842), (390, 10851), (392, 10857), (412, 10905), (422, 10929), (423, 10935), (436, 10971), (454, 11028), (506, 11193), (522, 11247), (582, 11325), (590, 11355), (591, 11358), (600, 11406), (626, 11496), (631, 11511), (643, 11553), (645, 11565), (650, 11580), (675, 11667), (678, 11676), (697, 11733),

Gene: Jingles_17 Start: 9596, Stop: 12004, Start Num: 23
Candidate Starts for Jingles_17:
(Start: 23 @9596 has 80 MA's), (41, 9710), (53, 9749), (67, 9800), (68, 9803), (75, 9851), (79, 9875), (90, 9932), (98, 9974), (109, 10019), (112, 10028), (133, 10112), (141, 10157), (147, 10187), (153, 10220), (156, 10229), (168, 10277), (178, 10337), (196, 10394), (234, 10511), (235, 10514), (239, 10526), (253, 10571), (278, 10637), (282, 10649), (287, 10658), (290, 10664), (309, 10715), (326, 10766), (327, 10769), (333, 10787), (342, 10817), (380, 10913), (392, 10949), (437, 11066), (454, 11120), (465, 11153), (475, 11183), (506, 11285), (513, 11315), (518, 11327), (522, 11339), (537, 11384), (541, 11405), (546, 11426), (554, 11459), (558, 11471), (562, 11480), (564, 11483), (569, 11504), (590, 11579), (591, 11582), (600, 11630), (626, 11720), (641, 11768), (648, 11804), (652, 11816), (675, 11900), (678, 11909), (697, 11966),

Gene: Joann_18 Start: 12611, Stop: 15172, Start Num: 19
Candidate Starts for Joann_18:
(15, 12590), (Start: 19 @12611 has 29 MA's), (35, 12701), (42, 12740), (50, 12776), (68, 12836), (75, 12884), (76, 12899), (114, 13067), (126, 13112), (136, 13163), (137, 13166), (152, 13250), (202, 13457), (205, 13466), (212, 13484), (225, 13526), (351, 13835), (366, 13868), (387, 13928), (393, 13952), (419, 14033), (420, 14039), (421, 14042), (429, 14066), (438, 14096), (445, 14117), (467, 14180), (472, 14195), (480, 14219), (483, 14231), (485, 14237), (489, 14252), (491, 14258), (492, 14261), (498, 14282), (503, 14297), (508, 14312), (512, 14330), (513, 14336), (518, 14351), (521,

14360), (524, 14369), (536, 14402), (539, 14405), (542, 14417), (543, 14423), (546, 14435), (572, 14501), (577, 14516), (599, 14615), (611, 14666), (615, 14678), (622, 14699), (651, 14798), (652, 14801), (665, 14855), (675, 14894), (695, 14951), (705, 14975), (722, 15017), (730, 15044), (746, 15113),

Gene: Joemato_16 Start: 10730, Stop: 13045, Start Num: 21
Candidate Starts for Joemato_16:
(Start: 21 @10730 has 80 MA's), (47, 10886), (49, 10895), (71, 10976), (72, 10988), (81, 11036), (105, 11153), (128, 11234), (129, 11237), (134, 11267), (145, 11321), (150, 11351), (166, 11408), (172, 11432), (183, 11492), (296, 11717), (371, 11813), (396, 11885), (424, 11933), (442, 11987), (457, 12029), (470, 12068), (488, 12128), (587, 12407), (593, 12431), (598, 12464), (599, 12467), (611, 12518), (645, 12629), (651, 12650), (652, 12653), (660, 12686), (681, 12764), (688, 12785), (695, 12803), (718, 12863), (729, 12893), (741, 12944), (752, 12989), (762, 13034),

Gene: JohnDoe_16 Start: 10725, Stop: 13040, Start Num: 21
Candidate Starts for JohnDoe_16:
(Start: 21 @10725 has 80 MA's), (47, 10881), (49, 10890), (71, 10971), (72, 10983), (81, 11031), (105, 11148), (128, 11229), (129, 11232), (134, 11262), (145, 11316), (150, 11346), (166, 11403), (172, 11427), (183, 11487), (296, 11712), (371, 11808), (396, 11880), (424, 11928), (442, 11982), (457, 12024), (470, 12063), (488, 12123), (587, 12402), (593, 12426), (598, 12459), (599, 12462), (611, 12513), (645, 12624), (651, 12645), (652, 12648), (660, 12681), (681, 12759), (695, 12798), (718, 12858), (729, 12888), (741, 12939), (752, 12984), (762, 13029),

Gene: JohnThicc_15 Start: 8974, Stop: 11217, Start Num: 21
Candidate Starts for JohnThicc_15:
(Start: 21 @8974 has 80 MA's), (36, 9061), (60, 9163), (73, 9229), (94, 9334), (122, 9445), (124, 9451), (143, 9547), (151, 9589), (186, 9736), (191, 9754), (276, 9856), (389, 10012), (418, 10090), (437, 10138), (439, 10147), (445, 10165), (460, 10207), (463, 10216), (472, 10243), (481, 10273), (491, 10306), (521, 10408), (524, 10417), (529, 10429), (536, 10450), (539, 10453), (546, 10483), (584, 10591), (651, 10846), (655, 10858), (675, 10942), (677, 10948), (686, 10978),

Gene: Johnathan_16 Start: 10389, Stop: 13148, Start Num: 17
Candidate Starts for Johnathan_16:
(3, 10236), (6, 10317), (Start: 17 @10389 has 71 MA's), (47, 10542), (49, 10548), (61, 10587), (96, 10773), (124, 10875), (159, 11046), (173, 11112), (175, 11124), (176, 11133), (181, 11148), (190, 11181), (193, 11190), (197, 11208), (217, 11268), (219, 11274), (221, 11283), (223, 11289), (229, 11313), (233, 11325), (239, 11343), (255, 11406), (305, 11520), (309, 11532), (338, 11628), (350, 11667), (405, 11826), (429, 11877), (432, 11886), (436, 11898), (461, 11976), (495, 12090), (504, 12117), (531, 12201), (557, 12294), (565, 12312), (568, 12321), (588, 12387), (600, 12453), (626, 12549), (641, 12594), (644, 12609), (654, 12648), (670, 12717), (675, 12735), (676, 12738), (679, 12750), (688, 12777), (722, 12891), (727, 12903), (734, 12933), (758, 13041),

Gene: Jovita_16 Start: 10461, Stop: 13223, Start Num: 17
Candidate Starts for Jovita_16:
(Start: 17 @10461 has 71 MA's), (47, 10614), (49, 10620), (61, 10659), (67, 10683), (79, 10755), (124, 10947), (144, 11046), (159, 11118), (175, 11196), (176, 11205), (178, 11208), (190, 11253), (193, 11262), (219, 11346), (221, 11355), (223, 11361), (227, 11373), (229, 11385), (233, 11397), (255, 11478), (294, 11565), (305, 11592), (308, 11601), (338, 11700), (350, 11739), (386, 11835), (393, 11859), (416, 11913), (429, 11949), (432, 11958), (436, 11970), (495, 12162), (504, 12189), (543, 12324), (561, 12384), (588, 12462), (626, 12624), (641, 12669), (644, 12684), (654, 12723), (670, 12792), (675, 12810), (676, 12813), (679, 12825), (688, 12852), (727, 12978), (730, 12993), (734, 13008),

Gene: Jstan_16 Start: 10704, Stop: 13028, Start Num: 21
Candidate Starts for Jstan_16:
(Start: 21 @10704 has 80 MA's), (46, 10857), (47, 10860), (49, 10869), (71, 10950), (81, 11010), (89, 11055), (105, 11127), (128, 11208), (129, 11211), (134, 11241), (145, 11295), (150, 11325), (166, 11382), (172, 11406), (183, 11466), (185, 11472), (194, 11496), (231, 11592), (296, 11691), (371, 11787), (383, 11820), (396, 11859), (424, 11907), (442, 11961), (457, 12003), (470, 12042), (476, 12060), (488, 12102), (517, 12195), (583, 12366), (587, 12381), (611, 12492), (651, 12624), (652, 12627), (660, 12660), (681, 12738), (695, 12777), (718, 12837), (741, 12927),

Gene: Juanyo_16 Start: 9602, Stop: 12022, Start Num: 23
Candidate Starts for Juanyo_16:
(Start: 23 @9602 has 80 MA's), (24, 9617), (29, 9635), (41, 9716), (79, 9881), (90, 9938), (93, 9956), (98, 9980), (112, 10034), (117, 10055), (123, 10073), (133, 10118), (141, 10163), (168, 10274), (178, 10334), (187, 10370), (198, 10409), (204, 10430), (212, 10451), (216, 10463), (226, 10496), (234, 10526), (235, 10529), (239, 10541), (253, 10586), (254, 10592), (261, 10607), (287, 10673), (295, 10691), (300, 10706), (305, 10718), (318, 10751), (328, 10790), (342, 10832), (352, 10859), (353, 10862), (377, 10922), (383, 10937), (392, 10964), (404, 11003), (422, 11036), (423, 11042), (428, 11054), (439, 11090), (443, 11102), (454, 11135), (465, 11168), (475, 11198), (479, 11210), (513, 11330), (527, 11369), (544, 11432), (551, 11465), (564, 11498), (590, 11594), (591, 11597), (600, 11645), (631, 11750), (642, 11795), (652, 11831), (653, 11834), (655, 11840), (667, 11891), (675, 11918), (678, 11927), (697, 11984), (706, 12011), (708, 12014),

Gene: Juicer_18 Start: 10820, Stop: 13258, Start Num: 23
Candidate Starts for Juicer_18:
(Start: 23 @10820 has 80 MA's), (24, 10835), (50, 10964), (67, 11024), (75, 11075), (79, 11099), (90, 11156), (93, 11174), (98, 11198), (112, 11252), (117, 11273), (133, 11336), (141, 11381), (150, 11423), (168, 11492), (178, 11552), (186, 11582), (187, 11588), (198, 11627), (204, 11648), (219, 11690), (226, 11714), (234, 11744), (235, 11747), (253, 11804), (254, 11810), (255, 11813), (261, 11825), (277, 11867), (309, 11948), (317, 11966), (322, 11984), (330, 12014), (333, 12020), (334, 12023), (353, 12080), (390, 12176), (392, 12182), (401, 12212), (404, 12221), (422, 12254), (423, 12260), (428, 12272), (441, 12314), (443, 12320), (454, 12353), (475, 12416), (479, 12428), (527, 12587), (535, 12608), (537, 12617), (538, 12626), (551, 12683), (582, 12782), (588, 12803), (590, 12812), (610, 12905), (631, 12968), (646, 13037), (647, 13043), (649, 13049), (658, 13079), (662, 13100), (671, 13130), (674, 13139), (690, 13190), (706, 13241), (710, 13244),

Gene: JuneStar_16 Start: 10824, Stop: 13148, Start Num: 21
Candidate Starts for JuneStar_16:
(Start: 21 @10824 has 80 MA's), (52, 10998), (59, 11022), (71, 11070), (81, 11130), (102, 11235), (105, 11247), (128, 11328), (129, 11331), (134, 11361), (145, 11415), (150, 11445), (161, 11487), (166, 11502), (172, 11526), (176, 11556), (183, 11586), (185, 11592), (296, 11811), (383, 11940), (396, 11979), (424, 12027), (432, 12048), (442, 12081), (457, 12123), (470, 12162), (488, 12222), (517, 12315), (547, 12384), (611, 12612), (645, 12723), (651, 12744), (652, 12747), (681, 12858), (695, 12897),

Gene: Kale_17 Start: 9669, Stop: 11939, Start Num: 22
Candidate Starts for Kale_17:
(Start: 22 @9669 has 123 MA's), (41, 9786), (50, 9816), (67, 9876), (75, 9927), (79, 9951), (90, 10008), (109, 10095), (112, 10104), (133, 10188), (141, 10233), (146, 10260), (147, 10263), (168, 10353), (178, 10413), (196, 10470), (204, 10491), (234, 10587), (235, 10590), (247, 10632), (278, 10713), (287, 10734), (292, 10746), (305, 10779), (330, 10857), (333, 10863), (342, 10893), (359, 10932), (371, 10965), (372, 10971), (377, 10983), (383, 10998), (387, 11010), (390, 11019), (392, 11025), (412, 11073), (422, 11097), (423, 11103), (436, 11139), (454, 11196), (506, 11361), (522, 11415), (582, 11493), (591, 11526), (600, 11574), (626, 11664), (631, 11679), (643, 11721), (645, 11733),

(650, 11748), (675, 11835), (678, 11844), (697, 11901),

Gene: Kalimba_16 Start: 10244, Stop: 12664, Start Num: 21
Candidate Starts for Kalimba_16:
(Start: 21 @10244 has 80 MA's), (36, 10331), (47, 10388), (62, 10436), (65, 10448), (75, 10508), (95, 10619), (116, 10700), (144, 10826), (147, 10841), (160, 10895), (201, 11069), (240, 11153), (248, 11174), (257, 11195), (266, 11216), (284, 11267), (335, 11342), (351, 11363), (368, 11396), (388, 11453), (399, 11495), (404, 11510), (421, 11561), (433, 11597), (478, 11705), (484, 11726), (497, 11768), (501, 11780), (520, 11834), (539, 11882), (572, 11978), (609, 12134), (615, 12155), (619, 12167), (636, 12218), (675, 12368), (686, 12404), (701, 12437), (749, 12596),

Gene: Kamdara_15 Start: 10179, Stop: 12809, Start Num: 17
Candidate Starts for Kamdara_15:
(Start: 17 @10179 has 71 MA's), (24, 10212), (30, 10239), (47, 10332), (51, 10344), (58, 10368), (67, 10401), (79, 10473), (113, 10626), (124, 10665), (159, 10836), (175, 10914), (178, 10926), (206, 11028), (221, 11073), (239, 11133), (255, 11196), (278, 11250), (305, 11310), (350, 11322), (363, 11352), (365, 11355), (371, 11376), (393, 11442), (434, 11547), (436, 11553), (461, 11631), (504, 11772), (510, 11796), (518, 11820), (543, 11907), (608, 12144), (617, 12180), (619, 12189), (629, 12222), (641, 12264), (644, 12279), (649, 12303), (679, 12411), (727, 12564), (730, 12579), (734, 12594),

Gene: KannH_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for KannH_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: KatChan_18 Start: 9878, Stop: 12307, Start Num: 23
Candidate Starts for KatChan_18:
(Start: 23 @9878 has 80 MA's), (24, 9893), (29, 9911), (75, 10133), (79, 10157), (90, 10214), (104, 10286), (112, 10310), (133, 10394), (141, 10439), (147, 10469), (168, 10559), (178, 10619), (216, 10730), (234, 10793), (235, 10796), (239, 10808), (253, 10853), (254, 10859), (277, 10916), (287, 10940), (295, 10958), (308, 10994), (309, 10997), (314, 11006), (333, 11069), (334, 11072), (338, 11081), (353, 11129), (364, 11150), (392, 11231), (399, 11255), (401, 11261), (404, 11270), (423, 11309), (428, 11321), (437, 11348), (441, 11363), (443, 11369), (454, 11402), (459, 11417), (475, 11465), (479, 11477), (506, 11567), (518, 11609), (519, 11612), (527, 11636), (535, 11657), (538, 11675), (558, 11753), (582, 11831), (588, 11852), (590, 11861), (610, 11954), (630, 12014), (631, 12017), (648, 12083), (651, 12092), (661, 12128), (668, 12152), (696, 12239), (703, 12266), (713, 12290),

Gene: Kate33_16 Start: 10330, Stop: 13092, Start Num: 17
Candidate Starts for Kate33_16:
(Start: 17 @10330 has 71 MA's), (47, 10483), (51, 10495), (67, 10552), (79, 10624), (113, 10777), (124, 10816), (159, 10987), (175, 11065), (178, 11077), (179, 11080), (190, 11122), (215, 11203), (221, 11224), (239, 11284), (244, 11302), (255, 11347), (264, 11365), (278, 11401), (305, 11461), (309, 11473), (316, 11500), (350, 11608), (382, 11692), (393, 11728), (429, 11818), (461, 11917), (495, 12031), (504, 12058), (527, 12133), (543, 12193), (561, 12253), (588, 12331), (593, 12352), (601, 12400), (626, 12493), (641, 12538), (644, 12553), (646, 12565), (654, 12592), (670, 12661),

(676, 12682), (679, 12694), (688, 12721), (727, 12847), (730, 12862), (734, 12877), (761, 13003), (768, 13078),

Gene: Katzastrophic_15 Start: 9892, Stop: 12669, Start Num: 17
Candidate Starts for Katzastrophic_15:
(Start: 17 @9892 has 71 MA's), (24, 9925), (43, 10033), (67, 10111), (117, 10363), (119, 10369), (120, 10372), (149, 10513), (173, 10621), (178, 10645), (180, 10654), (208, 10753), (246, 10873), (258, 10921), (260, 10924), (269, 10942), (273, 10951), (278, 10972), (345, 11170), (349, 11179), (350, 11182), (373, 11245), (393, 11302), (432, 11401), (434, 11407), (436, 11413), (495, 11605), (504, 11632), (517, 11677), (543, 11767), (549, 11791), (553, 11809), (561, 11827), (580, 11881), (588, 11911), (601, 11980), (608, 12004), (623, 12061), (624, 12064), (641, 12124), (644, 12139), (676, 12259), (679, 12271), (688, 12298), (700, 12340), (727, 12424), (730, 12439), (731, 12442), (768, 12655),

Gene: Kauala_17 Start: 9586, Stop: 11994, Start Num: 23
Candidate Starts for Kauala_17:
(Start: 23 @9586 has 80 MA's), (41, 9700), (67, 9790), (68, 9793), (75, 9841), (79, 9865), (90, 9922), (109, 10009), (112, 10018), (133, 10102), (141, 10147), (147, 10177), (153, 10210), (156, 10219), (168, 10267), (178, 10327), (196, 10384), (234, 10501), (235, 10504), (239, 10516), (253, 10561), (278, 10627), (282, 10639), (287, 10648), (290, 10654), (305, 10693), (309, 10705), (325, 10753), (327, 10759), (333, 10777), (339, 10792), (380, 10903), (387, 10924), (392, 10939), (436, 11053), (475, 11173), (513, 11305), (518, 11317), (537, 11374), (541, 11395), (554, 11449), (562, 11470), (564, 11473), (569, 11494), (590, 11569), (591, 11572), (600, 11620), (612, 11668), (626, 11710), (641, 11758), (643, 11770), (675, 11890), (678, 11899), (680, 11905), (697, 11956),

Gene: Kavo_17 Start: 9804, Stop: 12242, Start Num: 23
Candidate Starts for Kavo_17:
(Start: 23 @9804 has 80 MA's), (35, 9876), (59, 9975), (65, 9996), (66, 9999), (79, 10080), (90, 10137), (93, 10155), (98, 10179), (112, 10233), (117, 10254), (133, 10317), (141, 10362), (155, 10422), (160, 10440), (168, 10473), (178, 10533), (186, 10563), (187, 10569), (198, 10608), (204, 10629), (226, 10695), (234, 10725), (235, 10728), (239, 10740), (253, 10785), (254, 10791), (278, 10851), (287, 10872), (308, 10926), (309, 10929), (333, 11001), (339, 11016), (364, 11082), (383, 11136), (392, 11163), (401, 11193), (404, 11202), (422, 11235), (423, 11241), (428, 11253), (437, 11280), (441, 11295), (443, 11301), (447, 11313), (454, 11334), (465, 11367), (475, 11397), (479, 11409), (519, 11544), (535, 11589), (537, 11598), (538, 11607), (551, 11664), (555, 11676), (558, 11685), (582, 11763), (590, 11793), (591, 11796), (605, 11862), (630, 11946), (631, 11949), (633, 11961), (636, 11979), (646, 12018), (647, 12024), (682, 12153), (706, 12225),

Gene: Kaylissa_16 Start: 10731, Stop: 13046, Start Num: 21
Candidate Starts for Kaylissa_16:
(Start: 21 @10731 has 80 MA's), (47, 10887), (49, 10896), (71, 10977), (72, 10989), (81, 11037), (105, 11154), (128, 11235), (129, 11238), (134, 11268), (145, 11322), (150, 11352), (166, 11409), (172, 11433), (183, 11493), (296, 11718), (371, 11814), (396, 11886), (424, 11934), (442, 11988), (457, 12030), (470, 12069), (488, 12129), (587, 12408), (593, 12432), (598, 12465), (599, 12468), (611, 12519), (645, 12630), (651, 12651), (652, 12654), (660, 12687), (681, 12765), (688, 12786), (695, 12804), (718, 12864), (729, 12894), (741, 12945), (752, 12990), (762, 13035),

Gene: KeAlii_16 Start: 10771, Stop: 13071, Start Num: 21
Candidate Starts for KeAlii_16:
(Start: 21 @10771 has 80 MA's), (47, 10927), (49, 10936), (71, 11017), (81, 11077), (105, 11194), (121, 11245), (128, 11275), (129, 11278), (134, 11308), (145, 11362), (150, 11392), (160, 11425), (166, 11449), (172, 11473), (176, 11503), (183, 11533), (185, 11539), (194, 11563), (303, 11776), (371, 11857), (387, 11902), (396, 11929), (424, 11977), (457, 12073), (470, 12112), (473, 12121),

(492, 12184), (493, 12187), (520, 12274), (534, 12310), (547, 12334), (587, 12451), (591, 12466), (604, 12532), (627, 12607), (654, 12703), (677, 12793), (686, 12823), (711, 12877), (718, 12898), (749, 13006),

Gene: KellyGreen_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for KellyGreen_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: Kenzers_16 Start: 10373, Stop: 13135, Start Num: 17
Candidate Starts for Kenzers_16:
(Start: 17 @10373 has 71 MA's), (47, 10526), (61, 10571), (96, 10757), (124, 10859), (159, 11030), (173, 11096), (175, 11108), (176, 11117), (190, 11165), (193, 11174), (197, 11192), (219, 11258), (221, 11267), (223, 11273), (229, 11297), (233, 11309), (255, 11390), (309, 11516), (338, 11612), (350, 11651), (393, 11771), (436, 11882), (443, 11906), (495, 12074), (504, 12101), (543, 12236), (549, 12260), (561, 12296), (585, 12365), (600, 12443), (624, 12530), (626, 12539), (641, 12590), (644, 12605), (649, 12629), (676, 12725), (679, 12737), (727, 12890), (734, 12920), (758, 13028),

Gene: Kieran_15 Start: 10183, Stop: 12813, Start Num: 17
Candidate Starts for Kieran_15:
(Start: 17 @10183 has 71 MA's), (24, 10216), (30, 10243), (47, 10336), (51, 10348), (58, 10372), (67, 10405), (79, 10477), (113, 10630), (124, 10669), (159, 10840), (175, 10918), (178, 10930), (206, 11032), (221, 11077), (239, 11137), (244, 11155), (255, 11200), (278, 11254), (305, 11314), (350, 11326), (362, 11353), (363, 11356), (365, 11359), (371, 11380), (386, 11422), (393, 11446), (434, 11551), (461, 11635), (504, 11776), (510, 11800), (518, 11824), (543, 11911), (608, 12148), (617, 12184), (619, 12193), (629, 12226), (641, 12268), (644, 12283), (649, 12307), (679, 12415), (727, 12568), (730, 12583), (734, 12598),

Gene: KingJulien_17 Start: 9762, Stop: 12029, Start Num: 22
Candidate Starts for KingJulien_17:
(Start: 22 @9762 has 123 MA's), (65, 9960), (68, 9972), (75, 10020), (79, 10044), (90, 10101), (92, 10110), (104, 10173), (109, 10188), (112, 10197), (133, 10281), (141, 10326), (147, 10356), (168, 10446), (178, 10506), (196, 10563), (234, 10680), (235, 10683), (239, 10695), (253, 10740), (278, 10806), (287, 10827), (292, 10839), (305, 10872), (333, 10956), (342, 10986), (359, 11025), (364, 11037), (383, 11091), (390, 11112), (392, 11118), (412, 11166), (421, 11187), (436, 11232), (454, 11289), (484, 11382), (522, 11508), (582, 11586), (590, 11616), (591, 11619), (600, 11667), (626, 11757), (631, 11772), (640, 11802), (675, 11925), (678, 11934), (697, 11991),

Gene: Kittykat_14 Start: 9756, Stop: 12314, Start Num: 19
Candidate Starts for Kittykat_14:
(15, 9735), (Start: 19 @9756 has 29 MA's), (29, 9804), (42, 9885), (68, 9981), (74, 10026), (76, 10044), (78, 10050), (108, 10191), (114, 10212), (126, 10257), (136, 10308), (137, 10311), (142, 10341), (152, 10395), (182, 10524), (202, 10602), (205, 10611), (207, 10617), (212, 10629), (222, 10662), (237, 10704), (252, 10749), (299, 10869), (301, 10872), (332, 10947), (366, 11010), (387, 11070), (391, 11088), (393, 11094), (397, 11106), (402, 11124), (419, 11175), (420, 11181), (428, 11205), (434, 11223), (438, 11238), (441, 11247), (457, 11292), (460, 11301), (467, 11322), (471, 11334), (472, 11337), (479, 11358), (480, 11361), (481, 11367), (483, 11373), (489, 11394), (491, 11400), (497,

11421), (505, 11445), (508, 11454), (510, 11466), (512, 11472), (518, 11493), (536, 11544), (539, 11547), (541, 11556), (542, 11559), (578, 11664), (581, 11676), (587, 11697), (601, 11766), (611, 11808), (615, 11820), (617, 11823), (622, 11841), (623, 11844), (651, 11940), (652, 11943), (665, 11997), (675, 12036), (681, 12054), (692, 12084), (695, 12093), (712, 12135), (746, 12255),

Gene: Klimt_17 Start: 9647, Stop: 11917, Start Num: 22
Candidate Starts for Klimt_17:
(Start: 22 @9647 has 123 MA's), (41, 9764), (50, 9794), (67, 9854), (75, 9905), (79, 9929), (90, 9986), (104, 10058), (109, 10073), (112, 10082), (133, 10166), (141, 10211), (147, 10241), (168, 10331), (178, 10391), (196, 10448), (204, 10469), (234, 10565), (235, 10568), (247, 10610), (278, 10691), (287, 10712), (292, 10724), (305, 10757), (333, 10841), (342, 10871), (359, 10910), (371, 10943), (372, 10949), (383, 10976), (387, 10988), (390, 10997), (392, 11003), (403, 11039), (412, 11051), (423, 11081), (436, 11117), (454, 11174), (484, 11267), (506, 11339), (522, 11393), (582, 11471), (590, 11501), (591, 11504), (600, 11552), (610, 11594), (626, 11642), (631, 11657), (643, 11699), (667, 11786), (675, 11813), (697, 11879),

Gene: Knox_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Knox_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: Koji_17 Start: 9718, Stop: 12126, Start Num: 23
Candidate Starts for Koji_17:
(Start: 23 @9718 has 80 MA's), (41, 9832), (53, 9871), (75, 9973), (79, 9997), (90, 10054), (98, 10096), (107, 10135), (109, 10141), (112, 10150), (133, 10234), (141, 10279), (147, 10309), (153, 10342), (156, 10351), (168, 10399), (178, 10459), (196, 10516), (234, 10633), (235, 10636), (239, 10648), (253, 10693), (278, 10759), (282, 10771), (287, 10780), (290, 10786), (309, 10837), (326, 10888), (327, 10891), (333, 10909), (339, 10924), (371, 11011), (380, 11035), (392, 11071), (437, 11188), (454, 11242), (465, 11275), (475, 11305), (506, 11407), (513, 11437), (518, 11449), (537, 11506), (541, 11527), (546, 11548), (554, 11581), (558, 11593), (562, 11602), (564, 11605), (569, 11626), (581, 11668), (590, 11701), (591, 11704), (600, 11752), (612, 11800), (626, 11842), (643, 11902), (648, 11926), (675, 12022), (678, 12031), (697, 12088),

Gene: Kouch_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for Kouch_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: Kurt1_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for Kurt1_17:

(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: LadyAstra_15 Start: 8974, Stop: 11217, Start Num: 21
Candidate Starts for LadyAstra_15:
(Start: 21 @8974 has 80 MA's), (36, 9061), (60, 9163), (73, 9229), (94, 9334), (122, 9445), (124, 9451), (143, 9547), (151, 9589), (186, 9736), (191, 9754), (276, 9856), (389, 10012), (418, 10090), (437, 10138), (439, 10147), (445, 10165), (460, 10207), (463, 10216), (472, 10243), (481, 10273), (491, 10306), (521, 10408), (524, 10417), (529, 10429), (536, 10450), (539, 10453), (546, 10483), (584, 10591), (651, 10846), (655, 10858), (675, 10942), (677, 10948), (686, 10978),

Gene: Lahqtemish_16 Start: 10376, Stop: 13138, Start Num: 17
Candidate Starts for Lahqtemish_16:
(Start: 17 @10376 has 71 MA's), (47, 10529), (51, 10541), (67, 10598), (79, 10670), (113, 10823), (124, 10862), (159, 11033), (175, 11111), (179, 11126), (190, 11168), (215, 11249), (221, 11270), (239, 11330), (244, 11348), (255, 11393), (261, 11402), (305, 11507), (309, 11519), (316, 11546), (350, 11654), (382, 11738), (393, 11774), (429, 11864), (432, 11873), (436, 11885), (461, 11963), (495, 12077), (504, 12104), (517, 12149), (543, 12239), (550, 12272), (561, 12299), (588, 12377), (593, 12398), (601, 12446), (626, 12539), (641, 12584), (644, 12599), (646, 12611), (654, 12638), (676, 12728), (679, 12740), (688, 12767), (727, 12893), (730, 12908), (734, 12923), (742, 12962), (763, 13052),

Gene: Lakshmi_18 Start: 12636, Stop: 15197, Start Num: 19
Candidate Starts for Lakshmi_18:
(15, 12615), (Start: 19 @12636 has 29 MA's), (35, 12726), (42, 12765), (50, 12801), (68, 12861), (75, 12909), (76, 12924), (114, 13092), (126, 13137), (136, 13188), (137, 13191), (152, 13275), (197, 13461), (207, 13497), (212, 13509), (225, 13551), (266, 13662), (351, 13860), (387, 13953), (393, 13977), (394, 13980), (419, 14058), (420, 14064), (429, 14091), (438, 14121), (460, 14184), (465, 14199), (468, 14208), (469, 14211), (472, 14220), (480, 14244), (483, 14256), (485, 14262), (489, 14277), (491, 14283), (492, 14286), (498, 14307), (503, 14322), (508, 14337), (512, 14355), (513, 14361), (518, 14376), (521, 14385), (524, 14394), (536, 14427), (539, 14430), (542, 14442), (543, 14448), (546, 14460), (572, 14526), (577, 14541), (585, 14571), (587, 14580), (611, 14691), (623, 14727), (631, 14748), (651, 14823), (652, 14826), (665, 14880), (668, 14895), (675, 14919), (695, 14976), (705, 15000), (722, 15042), (730, 15069), (746, 15138),

Gene: Laroye_67 Start: 36530, Stop: 39547, Start Num: 9
Candidate Starts for Laroye_67:
(Start: 9 @36530 has 6 MA's), (14, 36551), (20, 36581), (Start: 21 @36584 has 80 MA's), (38, 36689), (60, 36773), (63, 36782), (73, 36842), (120, 37052), (122, 37058), (123, 37061), (124, 37064), (140, 37151), (151, 37202), (162, 37244), (163, 37247), (181, 37331), (186, 37349), (228, 37499), (261, 37592), (264, 37601), (287, 37691), (319, 37787), (324, 37805), (327, 37817), (333, 37835), (334, 37838), (339, 37850), (344, 37871), (347, 37883), (368, 37934), (395, 38027), (423, 38114), (436, 38150), (439, 38162), (442, 38171), (452, 38201), (457, 38216), (460, 38225), (482, 38294), (493, 38333), (525, 38459), (544, 38534), (567, 38609), (572, 38630), (581, 38663), (582, 38666), (593, 38708), (595, 38720), (598, 38741), (611, 38795), (644, 38897), (659, 38960), (692, 39071), (702, 39104), (721, 39158), (722, 39167), (745, 39260), (747, 39269), (764, 39368), (765, 39374), (767, 39404), (769, 39443), (771, 39530),

Gene: LastNadiia_20 Start: 11846, Stop: 14134, Start Num: 18
Candidate Starts for LastNadiia_20:
(Start: 18 @11846 has 8 MA's), (93, 12206), (94, 12209), (122, 12320), (123, 12323), (124, 12326), (151, 12464), (186, 12611), (281, 12782), (302, 12830), (394, 12962), (428, 13046), (432, 13058), (439, 13082), (453, 13124), (460, 13142), (464, 13154), (488, 13232), (489, 13235), (497, 13262), (503, 13280), (506, 13289), (512, 13313), (515, 13328), (518, 13334), (522, 13346), (524, 13352), (539, 13388), (546, 13418), (572, 13484), (609, 13640), (615, 13661), (617, 13664), (651, 13781), (652, 13784), (660, 13817), (694, 13934), (705, 13958), (744, 14075),

Gene: Leafus_17 Start: 9909, Stop: 12176, Start Num: 22
Candidate Starts for Leafus_17:
(Start: 22 @9909 has 123 MA's), (50, 10056), (68, 10119), (75, 10167), (79, 10191), (90, 10248), (92, 10257), (104, 10320), (107, 10329), (109, 10335), (112, 10344), (133, 10428), (141, 10473), (147, 10503), (168, 10593), (178, 10653), (196, 10710), (204, 10731), (234, 10827), (235, 10830), (239, 10842), (253, 10887), (278, 10953), (287, 10974), (292, 10986), (305, 11019), (333, 11103), (342, 11133), (359, 11172), (364, 11184), (383, 11238), (390, 11259), (392, 11265), (412, 11313), (421, 11334), (436, 11379), (454, 11436), (484, 11529), (522, 11655), (582, 11733), (590, 11763), (591, 11766), (600, 11814), (626, 11904), (631, 11919), (640, 11949), (675, 12072), (678, 12081), (697, 12138),

Gene: Lego_16 Start: 10730, Stop: 13045, Start Num: 21
Candidate Starts for Lego_16:
(Start: 21 @10730 has 80 MA's), (47, 10886), (49, 10895), (71, 10976), (72, 10988), (81, 11036), (82, 11039), (89, 11081), (105, 11153), (128, 11234), (129, 11237), (134, 11267), (145, 11321), (150, 11351), (166, 11408), (172, 11432), (183, 11492), (296, 11717), (371, 11813), (393, 11876), (396, 11885), (424, 11933), (428, 11942), (432, 11954), (442, 11987), (457, 12029), (470, 12068), (488, 12128), (535, 12269), (564, 12344), (573, 12356), (585, 12398), (587, 12407), (593, 12431), (611, 12518), (645, 12629), (651, 12650), (652, 12653), (660, 12686), (681, 12764), (695, 12803), (718, 12863), (729, 12893), (741, 12944), (752, 12989), (762, 13034),

Gene: LiSara_64 Start: 36692, Stop: 39709, Start Num: 9
Candidate Starts for LiSara_64:
(Start: 9 @36692 has 6 MA's), (14, 36713), (20, 36743), (Start: 21 @36746 has 80 MA's), (38, 36851), (60, 36935), (63, 36944), (73, 37004), (120, 37214), (122, 37220), (123, 37223), (124, 37226), (140, 37313), (151, 37364), (162, 37406), (163, 37409), (181, 37493), (186, 37511), (228, 37661), (261, 37754), (264, 37763), (287, 37853), (319, 37949), (327, 37979), (333, 37997), (334, 38000), (339, 38012), (344, 38033), (347, 38045), (368, 38096), (395, 38189), (423, 38276), (436, 38312), (439, 38324), (442, 38333), (452, 38363), (457, 38378), (460, 38387), (482, 38456), (493, 38495), (525, 38621), (544, 38696), (567, 38771), (572, 38792), (581, 38825), (582, 38828), (593, 38870), (595, 38882), (598, 38903), (611, 38957), (644, 39059), (659, 39122), (692, 39233), (702, 39266), (721, 39320), (722, 39329), (740, 39398), (745, 39422), (747, 39431), (764, 39530), (765, 39536), (767, 39566), (769, 39605), (771, 39692),

Gene: Librie_18 Start: 9873, Stop: 12314, Start Num: 23
Candidate Starts for Librie_18:
(Start: 23 @9873 has 80 MA's), (29, 9906), (72, 10107), (79, 10149), (90, 10206), (93, 10224), (98, 10248), (112, 10302), (117, 10323), (133, 10386), (141, 10431), (150, 10473), (155, 10491), (168, 10542), (187, 10638), (204, 10698), (219, 10740), (226, 10764), (234, 10794), (235, 10797), (238, 10806), (253, 10854), (254, 10860), (295, 10959), (300, 10974), (308, 10995), (333, 11070), (334, 11073), (353, 11130), (367, 11160), (392, 11232), (401, 11262), (404, 11271), (422, 11304), (423, 11310), (428, 11322), (438, 11355), (443, 11370), (454, 11403), (465, 11436), (479, 11478), (518, 11610), (535, 11658), (536, 11664), (538, 11676), (555, 11745), (558, 11754), (582, 11832), (590,

11862), (630, 12015), (631, 12018), (633, 12030), (647, 12093), (653, 12111), (664, 12156), (680, 12216), (708, 12297), (710, 12300),

Gene: Liebe_15 Start: 9206, Stop: 11569, Start Num: 21
Candidate Starts for Liebe_15:
(Start: 21 @9206 has 80 MA's), (60, 9395), (73, 9461), (87, 9536), (101, 9602), (122, 9677), (123, 9680), (124, 9683), (140, 9770), (143, 9779), (151, 9821), (186, 9968), (191, 9986), (227, 10061), (251, 10094), (270, 10127), (346, 10268), (406, 10391), (411, 10400), (429, 10439), (435, 10457), (439, 10472), (460, 10532), (462, 10538), (464, 10544), (468, 10556), (469, 10559), (486, 10613), (489, 10625), (493, 10637), (497, 10652), (518, 10724), (524, 10742), (528, 10751), (534, 10766), (539, 10778), (543, 10796), (546, 10808), (609, 11030), (651, 11171), (652, 11174), (660, 11207), (664, 11222), (665, 11228), (675, 11267), (694, 11324), (712, 11366), (728, 11414),

Gene: LilTerminator_18 Start: 9879, Stop: 12320, Start Num: 23
Candidate Starts for LilTerminator_18:
(Start: 23 @9879 has 80 MA's), (29, 9912), (72, 10113), (79, 10155), (90, 10212), (93, 10230), (98, 10254), (112, 10308), (117, 10329), (133, 10392), (141, 10437), (150, 10479), (155, 10497), (168, 10548), (187, 10644), (204, 10704), (219, 10746), (226, 10770), (234, 10800), (235, 10803), (238, 10812), (253, 10860), (254, 10866), (295, 10965), (300, 10980), (308, 11001), (333, 11076), (334, 11079), (353, 11136), (367, 11166), (392, 11238), (401, 11268), (404, 11277), (422, 11310), (423, 11316), (428, 11328), (438, 11361), (443, 11376), (454, 11409), (465, 11442), (475, 11472), (479, 11484), (518, 11616), (535, 11664), (536, 11670), (538, 11682), (555, 11751), (558, 11760), (582, 11838), (590, 11868), (630, 12021), (631, 12024), (633, 12036), (647, 12099), (653, 12117), (664, 12162), (680, 12222), (708, 12303), (710, 12306),

Gene: Lilo27_16 Start: 10336, Stop: 13095, Start Num: 17
Candidate Starts for Lilo27_16:
(Start: 17 @10336 has 71 MA's), (47, 10489), (49, 10495), (61, 10534), (67, 10558), (79, 10630), (124, 10822), (135, 10882), (144, 10921), (159, 10993), (175, 11071), (176, 11080), (178, 11083), (190, 11128), (193, 11137), (219, 11221), (221, 11230), (223, 11236), (227, 11248), (229, 11260), (233, 11272), (255, 11353), (294, 11440), (308, 11476), (338, 11575), (393, 11734), (429, 11824), (432, 11833), (436, 11845), (461, 11923), (495, 12037), (504, 12064), (531, 12148), (565, 12259), (568, 12268), (588, 12334), (624, 12487), (626, 12496), (641, 12541), (644, 12556), (654, 12595), (670, 12664), (675, 12682), (676, 12685), (679, 12697), (688, 12724), (722, 12838), (727, 12850), (734, 12880),

Gene: LimaBean_16 Start: 10388, Stop: 13147, Start Num: 17
Candidate Starts for LimaBean_16:
(Start: 17 @10388 has 71 MA's), (47, 10541), (49, 10547), (61, 10586), (96, 10772), (124, 10874), (159, 11045), (173, 11111), (175, 11123), (176, 11132), (181, 11147), (190, 11180), (193, 11189), (197, 11207), (217, 11267), (219, 11273), (221, 11282), (223, 11288), (229, 11312), (233, 11324), (239, 11342), (255, 11405), (305, 11519), (309, 11531), (316, 11558), (338, 11627), (350, 11666), (405, 11825), (429, 11876), (432, 11885), (461, 11975), (495, 12089), (504, 12116), (531, 12200), (557, 12293), (565, 12311), (568, 12320), (588, 12386), (600, 12452), (626, 12548), (641, 12593), (644, 12608), (654, 12647), (670, 12716), (675, 12734), (676, 12737), (679, 12749), (688, 12776), (722, 12890), (727, 12902), (734, 12932), (758, 13040),

Gene: Litotes_18 Start: 12597, Stop: 15152, Start Num: 19
Candidate Starts for Litotes_18:
(15, 12576), (Start: 19 @12597 has 29 MA's), (29, 12645), (42, 12726), (47, 12750), (68, 12822), (75, 12870), (76, 12885), (78, 12891), (114, 13053), (136, 13149), (137, 13152), (142, 13182), (173, 13320), (202, 13443), (222, 13503), (230, 13521), (235, 13536), (252, 13587), (351, 13818), (379, 13887), (387, 13911), (391, 13929), (393, 13935), (409, 13989), (413, 14001), (420, 14022), (428,

14046), (457, 14133), (465, 14157), (467, 14163), (468, 14166), (472, 14178), (479, 14199), (480, 14202), (481, 14208), (483, 14214), (488, 14232), (489, 14235), (491, 14241), (505, 14286), (508, 14295), (512, 14313), (518, 14334), (521, 14343), (524, 14352), (536, 14385), (539, 14388), (541, 14397), (542, 14400), (554, 14451), (611, 14649), (615, 14661), (622, 14682), (623, 14685), (651, 14781), (652, 14784), (665, 14838), (675, 14877), (695, 14934), (712, 14976), (730, 15024), (739, 15066), (746, 15096),

Gene: Lizalica_16 Start: 10715, Stop: 13030, Start Num: 21
Candidate Starts for Lizalica_16:
(Start: 21 @10715 has 80 MA's), (47, 10871), (49, 10880), (71, 10961), (72, 10973), (81, 11021), (82, 11024), (89, 11066), (105, 11138), (128, 11219), (129, 11222), (134, 11252), (145, 11306), (150, 11336), (166, 11393), (172, 11417), (183, 11477), (296, 11702), (371, 11798), (396, 11870), (424, 11918), (442, 11972), (457, 12014), (470, 12053), (488, 12113), (535, 12254), (585, 12383), (587, 12392), (593, 12416), (608, 12485), (611, 12503), (645, 12614), (651, 12635), (652, 12638), (660, 12671), (681, 12749), (695, 12788), (718, 12848), (729, 12878), (741, 12929), (752, 12974), (762, 13019),

Gene: London_16 Start: 10704, Stop: 13028, Start Num: 21
Candidate Starts for London_16:
(Start: 21 @10704 has 80 MA's), (46, 10857), (47, 10860), (49, 10869), (71, 10950), (81, 11010), (89, 11055), (105, 11127), (128, 11208), (129, 11211), (134, 11241), (145, 11295), (150, 11325), (166, 11382), (172, 11406), (183, 11466), (185, 11472), (194, 11496), (231, 11592), (296, 11691), (371, 11787), (383, 11820), (396, 11859), (424, 11907), (442, 11961), (457, 12003), (470, 12042), (476, 12060), (488, 12102), (517, 12195), (583, 12366), (587, 12381), (611, 12492), (651, 12624), (652, 12627), (660, 12660), (681, 12738), (695, 12777), (718, 12837), (741, 12927),

Gene: Lovelyunicorn_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Lovelyunicorn_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: Loviatar_16 Start: 10435, Stop: 13065, Start Num: 17
Candidate Starts for Loviatar_16:
(Start: 17 @10435 has 71 MA's), (30, 10495), (47, 10588), (58, 10624), (61, 10633), (79, 10729), (113, 10882), (124, 10921), (159, 11092), (168, 11128), (174, 11161), (178, 11182), (181, 11194), (186, 11212), (193, 11236), (207, 11287), (217, 11314), (219, 11320), (221, 11329), (227, 11347), (244, 11407), (255, 11452), (294, 11539), (305, 11566), (349, 11575), (373, 11641), (393, 11698), (495, 12001), (496, 12004), (504, 12028), (510, 12052), (543, 12163), (561, 12223), (588, 12307), (600, 12373), (603, 12385), (608, 12400), (620, 12448), (623, 12457), (624, 12460), (641, 12520), (644, 12535), (665, 12619), (679, 12667), (727, 12820), (730, 12835), (734, 12850), (753, 12937), (763, 12979),

Gene: Lucky3_17 Start: 9668, Stop: 12076, Start Num: 23
Candidate Starts for Lucky3_17:
(Start: 23 @9668 has 80 MA's), (32, 9719), (41, 9782), (59, 9842), (75, 9923), (79, 9947), (90, 10004), (109, 10091), (112, 10100), (133, 10184), (141, 10229), (147, 10259), (153, 10292), (168, 10349), (178, 10409), (196, 10466), (212, 10508), (219, 10529), (226, 10553), (234, 10583), (235, 10586),

(239, 10598), (253, 10643), (282, 10721), (287, 10730), (290, 10736), (309, 10787), (325, 10835), (327, 10841), (333, 10859), (334, 10862), (339, 10874), (353, 10919), (364, 10940), (383, 10994), (392, 11021), (428, 11111), (506, 11357), (513, 11387), (527, 11426), (537, 11456), (538, 11465), (546, 11498), (562, 11552), (569, 11576), (590, 11651), (591, 11654), (600, 11702), (626, 11792), (631, 11807), (641, 11840), (675, 11972), (678, 11981), (680, 11987), (697, 12038),

Gene: Ludgate_17 Start: 9358, Stop: 11628, Start Num: 22
Candidate Starts for Ludgate_17:
(Start: 22 @9358 has 123 MA's), (41, 9475), (50, 9505), (67, 9565), (75, 9616), (79, 9640), (90, 9697), (109, 9784), (112, 9793), (133, 9877), (141, 9922), (146, 9949), (147, 9952), (168, 10042), (178, 10102), (196, 10159), (204, 10180), (234, 10276), (235, 10279), (239, 10291), (247, 10321), (278, 10402), (287, 10423), (292, 10435), (305, 10468), (326, 10531), (330, 10546), (333, 10552), (342, 10582), (359, 10621), (371, 10654), (372, 10660), (377, 10672), (383, 10687), (387, 10699), (390, 10708), (392, 10714), (412, 10762), (436, 10828), (454, 10885), (506, 11050), (522, 11104), (582, 11182), (590, 11212), (591, 11215), (600, 11263), (626, 11353), (631, 11368), (645, 11422), (650, 11437), (675, 11524), (678, 11533), (697, 11590),

Gene: Luna18_18 Start: 9878, Stop: 12307, Start Num: 23
Candidate Starts for Luna18_18:
(Start: 23 @9878 has 80 MA's), (24, 9893), (29, 9911), (75, 10133), (79, 10157), (90, 10214), (104, 10286), (112, 10310), (133, 10394), (141, 10439), (147, 10469), (168, 10559), (178, 10619), (216, 10730), (234, 10793), (235, 10796), (239, 10808), (253, 10853), (254, 10859), (277, 10916), (287, 10940), (295, 10958), (308, 10994), (309, 10997), (314, 11006), (333, 11069), (334, 11072), (338, 11081), (353, 11129), (364, 11150), (392, 11231), (399, 11255), (401, 11261), (404, 11270), (423, 11309), (428, 11321), (437, 11348), (441, 11363), (443, 11369), (454, 11402), (459, 11417), (475, 11465), (479, 11477), (506, 11567), (518, 11609), (519, 11612), (527, 11636), (535, 11657), (538, 11675), (558, 11753), (582, 11831), (588, 11852), (590, 11861), (610, 11954), (630, 12014), (631, 12017), (648, 12083), (651, 12092), (661, 12128), (668, 12152), (696, 12239), (703, 12266), (713, 12290),

Gene: Lynlen_16 Start: 10373, Stop: 13135, Start Num: 17
Candidate Starts for Lynlen_16:
(Start: 17 @10373 has 71 MA's), (47, 10526), (61, 10571), (96, 10757), (124, 10859), (159, 11030), (173, 11096), (175, 11108), (176, 11117), (190, 11165), (193, 11174), (197, 11192), (219, 11258), (221, 11267), (223, 11273), (229, 11297), (233, 11309), (255, 11390), (309, 11516), (338, 11612), (350, 11651), (393, 11771), (436, 11882), (443, 11906), (495, 12074), (504, 12101), (543, 12236), (549, 12260), (561, 12296), (585, 12365), (600, 12443), (624, 12530), (626, 12539), (641, 12590), (644, 12605), (649, 12629), (676, 12725), (679, 12737), (727, 12890), (734, 12920), (758, 13028),

Gene: MCubed_16 Start: 9459, Stop: 11867, Start Num: 23
Candidate Starts for MCubed_16:
(Start: 23 @9459 has 80 MA's), (24, 9474), (41, 9573), (67, 9663), (79, 9738), (90, 9795), (92, 9804), (104, 9867), (109, 9882), (112, 9891), (133, 9975), (141, 10020), (147, 10050), (156, 10092), (168, 10140), (178, 10200), (196, 10257), (226, 10344), (234, 10374), (235, 10377), (239, 10389), (287, 10521), (290, 10527), (309, 10578), (326, 10629), (327, 10632), (333, 10650), (342, 10680), (348, 10692), (364, 10731), (383, 10785), (390, 10806), (392, 10812), (422, 10884), (423, 10890), (436, 10926), (437, 10929), (454, 10983), (475, 11046), (479, 11058), (484, 11076), (506, 11148), (513, 11178), (522, 11202), (535, 11238), (543, 11277), (551, 11313), (554, 11322), (562, 11343), (590, 11442), (591, 11445), (600, 11493), (626, 11583), (631, 11598), (643, 11643), (649, 11670), (655, 11688), (659, 11709), (664, 11727), (667, 11736), (674, 11757), (675, 11763), (678, 11772), (697, 11829), (706, 11856), (708, 11859),

Gene: MaGuCo_15 Start: 9140, Stop: 11503, Start Num: 21

Candidate Starts for MaGuCo_15:
(Start: 21 @9140 has 80 MA's), (60, 9329), (73, 9395), (87, 9470), (122, 9611), (123, 9614), (124, 9617), (140, 9704), (143, 9713), (151, 9755), (163, 9800), (186, 9902), (191, 9920), (251, 10028), (270, 10061), (346, 10202), (399, 10304), (406, 10325), (411, 10334), (429, 10373), (435, 10391), (438, 10403), (439, 10406), (460, 10466), (462, 10472), (464, 10478), (468, 10490), (469, 10493), (476, 10514), (486, 10547), (489, 10559), (493, 10571), (497, 10586), (518, 10658), (522, 10670), (524, 10676), (528, 10685), (534, 10700), (539, 10712), (543, 10730), (546, 10742), (609, 10964), (651, 11105), (652, 11108), (660, 11141), (665, 11162), (675, 11201), (694, 11258), (712, 11300), (728, 11348),

Gene: MaeLinda_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for MaeLinda_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (422, 10792), (423, 10798), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (643, 11416), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Makima_18 Start: 10929, Stop: 13217, Start Num: 18
Candidate Starts for Makima_18:
(Start: 18 @10929 has 8 MA's), (93, 11289), (94, 11292), (122, 11403), (123, 11406), (124, 11409), (151, 11547), (186, 11694), (281, 11865), (302, 11913), (439, 12165), (445, 12183), (460, 12225), (465, 12240), (488, 12315), (489, 12318), (497, 12345), (503, 12363), (506, 12372), (512, 12396), (515, 12411), (518, 12417), (522, 12429), (524, 12435), (539, 12471), (590, 12633), (609, 12723), (615, 12744), (617, 12747), (627, 12777), (651, 12864), (652, 12867), (660, 12900), (694, 13017), (705, 13041), (715, 13068), (744, 13158),

Gene: MamaPearl_14 Start: 9752, Stop: 12301, Start Num: 19
Candidate Starts for MamaPearl_14:
(12, 9722), (Start: 19 @9752 has 29 MA's), (42, 9881), (50, 9917), (75, 10025), (76, 10040), (108, 10187), (114, 10208), (136, 10304), (154, 10394), (175, 10487), (202, 10598), (222, 10658), (225, 10667), (335, 10940), (366, 10994), (377, 11027), (384, 11048), (387, 11054), (391, 11072), (419, 11159), (438, 11222), (457, 11276), (460, 11285), (467, 11306), (471, 11318), (472, 11321), (480, 11345), (481, 11351), (483, 11357), (486, 11366), (489, 11378), (491, 11384), (497, 11405), (508, 11438), (511, 11453), (512, 11456), (518, 11477), (520, 11483), (524, 11495), (536, 11528), (539, 11531), (541, 11540), (542, 11543), (545, 11558), (577, 11642), (587, 11681), (611, 11792), (615, 11804), (631, 11849), (651, 11924), (652, 11927), (665, 11981), (692, 12068), (695, 12077), (705, 12101), (709, 12113), (730, 12170), (732, 12176), (746, 12242), (755, 12284),

Gene: ManRay_17 Start: 9667, Stop: 11937, Start Num: 22
Candidate Starts for ManRay_17:
(Start: 22 @9667 has 123 MA's), (41, 9784), (50, 9814), (67, 9874), (75, 9925), (79, 9949), (90, 10006), (109, 10093), (112, 10102), (133, 10186), (141, 10231), (146, 10258), (147, 10261), (168, 10351), (178, 10411), (196, 10468), (204, 10489), (234, 10585), (235, 10588), (247, 10630), (278, 10711), (287, 10732), (292, 10744), (305, 10777), (330, 10855), (333, 10861), (342, 10891), (359, 10930), (371, 10963), (372, 10969), (377, 10981), (383, 10996), (387, 11008), (390, 11017), (392, 11023), (412, 11071), (422, 11095), (423, 11101), (436, 11137), (454, 11194), (506, 11359), (522, 11413), (582, 11491), (590, 11521), (591, 11524), (600, 11572), (626, 11662), (631, 11677), (643, 11719), (645, 11731), (650, 11746), (675, 11833), (678, 11842), (697, 11899),

Gene: Mandalorian_16 Start: 9629, Stop: 12040, Start Num: 23
Candidate Starts for Mandalorian_16:
(7, 9566), (Start: 23 @9629 has 80 MA's), (24, 9644), (29, 9662), (41, 9743), (66, 9827), (68, 9836), (79, 9908), (90, 9965), (104, 10037), (109, 10052), (112, 10061), (124, 10103), (133, 10145), (141, 10190), (147, 10220), (156, 10262), (168, 10310), (178, 10370), (186, 10400), (196, 10427), (226, 10514), (234, 10544), (235, 10547), (241, 10568), (261, 10625), (278, 10670), (287, 10691), (333, 10820), (352, 10877), (353, 10880), (372, 10928), (375, 10937), (383, 10955), (390, 10976), (392, 10982), (423, 11060), (436, 11096), (437, 11099), (439, 11108), (443, 11120), (453, 11150), (454, 11153), (464, 11183), (465, 11186), (513, 11348), (527, 11387), (544, 11450), (569, 11537), (590, 11612), (591, 11615), (600, 11663), (610, 11705), (612, 11711), (631, 11768), (653, 11852), (655, 11858), (675, 11936), (678, 11945), (697, 12002), (706, 12029), (708, 12032),

Gene: Martin_18 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for Martin_18:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Maureen_15 Start: 9206, Stop: 11569, Start Num: 21
Candidate Starts for Maureen_15:
(Start: 21 @9206 has 80 MA's), (60, 9395), (73, 9461), (87, 9536), (101, 9602), (122, 9677), (123, 9680), (124, 9683), (140, 9770), (143, 9779), (151, 9821), (186, 9968), (191, 9986), (227, 10061), (251, 10094), (270, 10127), (346, 10268), (406, 10391), (411, 10400), (429, 10439), (435, 10457), (439, 10472), (460, 10532), (462, 10538), (464, 10544), (468, 10556), (469, 10559), (486, 10613), (489, 10625), (493, 10637), (497, 10652), (518, 10724), (524, 10742), (528, 10751), (534, 10766), (539, 10778), (543, 10796), (546, 10808), (609, 11030), (651, 11171), (652, 11174), (660, 11207), (664, 11222), (665, 11228), (675, 11267), (694, 11324), (712, 11366), (728, 11414),

Gene: McGalleon_18 Start: 10235, Stop: 12499, Start Num: 23
Candidate Starts for McGalleon_18:
(Start: 23 @10235 has 80 MA's), (67, 10439), (68, 10442), (75, 10490), (79, 10514), (90, 10571), (92, 10580), (107, 10652), (109, 10658), (112, 10667), (133, 10751), (141, 10796), (147, 10826), (168, 10916), (178, 10976), (186, 11006), (196, 11033), (204, 11054), (234, 11150), (235, 11153), (239, 11165), (253, 11210), (254, 11216), (278, 11276), (291, 11306), (329, 11417), (333, 11426), (342, 11456), (379, 11549), (387, 11573), (404, 11627), (432, 11690), (436, 11702), (454, 11759), (475, 11822), (506, 11924), (522, 11978), (582, 12056), (590, 12086), (591, 12089), (600, 12137), (626, 12227), (630, 12239), (631, 12242), (657, 12332), (675, 12395), (678, 12404), (697, 12461),

Gene: Mercedes_17 Start: 9621, Stop: 12062, Start Num: 23
Candidate Starts for Mercedes_17:
(Start: 23 @9621 has 80 MA's), (29, 9654), (65, 9813), (72, 9855), (79, 9897), (90, 9954), (93, 9972), (98, 9996), (112, 10050), (117, 10071), (133, 10134), (141, 10179), (150, 10221), (155, 10239), (168, 10290), (186, 10380), (187, 10386), (198, 10425), (226, 10512), (234, 10542), (235, 10545), (241, 10566), (253, 10602), (254, 10608), (255, 10611), (300, 10722), (309, 10746), (333, 10818), (352, 10875), (364, 10899), (392, 10980), (401, 11010), (404, 11019), (416, 11037), (422, 11052), (423, 11058), (428, 11070), (441, 11112), (443, 11118), (454, 11151), (475, 11214), (479, 11226), (506, 11316), (518, 11358), (519, 11361), (530, 11394), (537, 11415), (538, 11424), (582, 11580), (590, 11610), (591, 11613), (609, 11697), (630, 11763), (631, 11766), (645, 11832), (647, 11841), (653,

11859), (664, 11904), (666, 11916), (680, 11964), (699, 12018), (708, 12045),

Gene: Merida02_17 Start: 9361, Stop: 11631, Start Num: 22
Candidate Starts for Merida02_17:
(Start: 22 @9361 has 123 MA's), (41, 9478), (50, 9508), (67, 9568), (75, 9619), (79, 9643), (90, 9700), (109, 9787), (112, 9796), (133, 9880), (141, 9925), (146, 9952), (147, 9955), (168, 10045), (178, 10105), (196, 10162), (204, 10183), (234, 10279), (235, 10282), (247, 10324), (278, 10405), (287, 10426), (292, 10438), (305, 10471), (330, 10549), (333, 10555), (342, 10585), (359, 10624), (371, 10657), (372, 10663), (377, 10675), (383, 10690), (387, 10702), (390, 10711), (392, 10717), (412, 10765), (436, 10831), (454, 10888), (506, 11053), (522, 11107), (582, 11185), (590, 11215), (591, 11218), (600, 11266), (626, 11356), (631, 11371), (645, 11425), (650, 11440), (675, 11527), (678, 11536), (697, 11593),

Gene: Michkear_19 Start: 12632, Stop: 14917, Start Num: 21
Candidate Starts for Michkear_19:
(Start: 21 @12632 has 80 MA's), (60, 12821), (73, 12887), (93, 12989), (99, 13016), (122, 13103), (124, 13109), (140, 13196), (143, 13205), (151, 13247), (163, 13292), (186, 13394), (191, 13412), (233, 13490), (419, 13784), (439, 13838), (445, 13856), (462, 13904), (469, 13925), (476, 13946), (509, 14057), (522, 14102), (529, 14120), (533, 14129), (539, 14144), (615, 14417), (631, 14462), (644, 14507), (652, 14540), (677, 14636), (686, 14666), (722, 14756),

Gene: MillyPhilly_17 Start: 9361, Stop: 11631, Start Num: 22
Candidate Starts for MillyPhilly_17:
(Start: 22 @9361 has 123 MA's), (41, 9478), (50, 9508), (67, 9568), (75, 9619), (79, 9643), (90, 9700), (109, 9787), (112, 9796), (133, 9880), (141, 9925), (146, 9952), (147, 9955), (168, 10045), (178, 10105), (196, 10162), (204, 10183), (234, 10279), (235, 10282), (247, 10324), (278, 10405), (287, 10426), (292, 10438), (305, 10471), (330, 10549), (333, 10555), (342, 10585), (359, 10624), (371, 10657), (372, 10663), (377, 10675), (383, 10690), (387, 10702), (390, 10711), (392, 10717), (412, 10765), (436, 10831), (454, 10888), (506, 11053), (522, 11107), (582, 11185), (590, 11215), (591, 11218), (600, 11266), (626, 11356), (631, 11371), (645, 11425), (650, 11440), (675, 11527), (678, 11536), (697, 11593),

Gene: Milomuff_17 Start: 10774, Stop: 13533, Start Num: 17
Candidate Starts for Milomuff_17:
(Start: 17 @10774 has 71 MA's), (47, 10927), (49, 10933), (61, 10972), (96, 11158), (124, 11260), (159, 11431), (173, 11497), (175, 11509), (176, 11518), (181, 11533), (190, 11566), (193, 11575), (197, 11593), (217, 11653), (219, 11659), (221, 11668), (223, 11674), (229, 11698), (233, 11710), (239, 11728), (255, 11791), (305, 11905), (309, 11917), (338, 12013), (350, 12052), (405, 12211), (429, 12262), (432, 12271), (436, 12283), (461, 12361), (495, 12475), (504, 12502), (531, 12586), (557, 12679), (565, 12697), (568, 12706), (588, 12772), (600, 12838), (626, 12934), (641, 12979), (644, 12994), (654, 13033), (670, 13102), (675, 13120), (676, 13123), (679, 13135), (688, 13162), (722, 13276), (727, 13288), (731, 13306), (734, 13318), (758, 13426),

Gene: MiniMommy_15 Start: 8972, Stop: 11215, Start Num: 21
Candidate Starts for MiniMommy_15:
(Start: 21 @8972 has 80 MA's), (36, 9059), (60, 9161), (73, 9227), (94, 9332), (122, 9443), (124, 9449), (143, 9545), (151, 9587), (186, 9734), (191, 9752), (279, 9869), (296, 9896), (317, 9929), (368, 9965), (389, 10013), (401, 10052), (418, 10091), (429, 10115), (437, 10139), (439, 10148), (442, 10157), (445, 10166), (460, 10208), (472, 10244), (476, 10256), (489, 10301), (491, 10307), (498, 10331), (509, 10367), (513, 10385), (521, 10409), (524, 10418), (529, 10430), (536, 10451), (539, 10454), (546, 10484), (617, 10730), (651, 10847), (675, 10943), (677, 10949), (686, 10979),

Gene: MiniVolent_16 Start: 9589, Stop: 12009, Start Num: 23

Candidate Starts for MiniVolent_16:
(Start: 23 @9589 has 80 MA's), (24, 9604), (29, 9622), (41, 9703), (79, 9868), (90, 9925), (93, 9943), (98, 9967), (112, 10021), (117, 10042), (123, 10060), (133, 10105), (141, 10150), (168, 10261), (178, 10321), (187, 10357), (198, 10396), (204, 10417), (212, 10438), (226, 10483), (234, 10513), (235, 10516), (239, 10528), (253, 10573), (254, 10579), (261, 10594), (287, 10660), (295, 10678), (300, 10693), (305, 10705), (318, 10738), (328, 10777), (342, 10819), (352, 10846), (353, 10849), (377, 10909), (383, 10924), (392, 10951), (404, 10990), (422, 11023), (423, 11029), (428, 11041), (439, 11077), (443, 11089), (454, 11122), (465, 11155), (475, 11185), (479, 11197), (513, 11317), (527, 11356), (544, 11419), (551, 11452), (564, 11485), (590, 11581), (591, 11584), (600, 11632), (631, 11737), (642, 11782), (652, 11818), (653, 11821), (655, 11827), (667, 11878), (675, 11905), (678, 11914), (697, 11971), (706, 11998), (708, 12001),

Gene: Mireles_17 Start: 9332, Stop: 11623, Start Num: 18
Candidate Starts for Mireles_17:
(11, 9296), (Start: 18 @9332 has 8 MA's), (93, 9692), (94, 9695), (122, 9806), (124, 9812), (151, 9950), (186, 10097), (191, 10115), (283, 10274), (296, 10301), (356, 10376), (405, 10484), (435, 10553), (439, 10568), (445, 10586), (446, 10589), (456, 10616), (460, 10628), (461, 10631), (463, 10637), (476, 10676), (486, 10709), (489, 10721), (492, 10730), (502, 10763), (503, 10766), (539, 10874), (546, 10904), (552, 10934), (554, 10937), (578, 10991), (584, 11012), (585, 11015), (591, 11039), (609, 11126), (615, 11147), (617, 11150), (651, 11267), (652, 11270), (660, 11303), (675, 11363), (694, 11420), (705, 11444), (707, 11453), (732, 11513), (744, 11564), (750, 11591),

Gene: Misaeng_18 Start: 12684, Stop: 15242, Start Num: 19
Candidate Starts for Misaeng_18:
(15, 12663), (Start: 19 @12684 has 29 MA's), (35, 12774), (42, 12813), (50, 12849), (76, 12972), (114, 13140), (126, 13185), (136, 13236), (137, 13239), (152, 13323), (202, 13530), (205, 13539), (212, 13557), (213, 13560), (225, 13599), (301, 13800), (321, 13851), (351, 13905), (387, 13998), (393, 14022), (415, 14091), (419, 14103), (420, 14109), (421, 14112), (429, 14136), (438, 14166), (445, 14187), (462, 14235), (467, 14250), (469, 14256), (472, 14265), (480, 14289), (483, 14301), (485, 14307), (489, 14322), (491, 14328), (492, 14331), (503, 14367), (505, 14373), (508, 14382), (512, 14400), (513, 14406), (518, 14421), (521, 14430), (528, 14448), (536, 14472), (539, 14475), (542, 14487), (546, 14505), (572, 14571), (577, 14586), (585, 14616), (587, 14625), (591, 14640), (599, 14685), (611, 14736), (623, 14772), (651, 14868), (652, 14871), (665, 14925), (675, 14964), (695, 15021), (705, 15045), (722, 15087), (730, 15114), (746, 15183),

Gene: MissSwiss_16 Start: 10713, Stop: 12947, Start Num: 21
Candidate Starts for MissSwiss_16:
(Start: 21 @10713 has 80 MA's), (47, 10869), (49, 10878), (57, 10905), (71, 10959), (72, 10971), (81, 11019), (105, 11136), (128, 11217), (129, 11220), (134, 11250), (150, 11334), (166, 11391), (172, 11415), (183, 11475), (206, 11544), (213, 11562), (258, 11613), (280, 11634), (294, 11655), (360, 11700), (393, 11796), (396, 11805), (424, 11853), (428, 11862), (457, 11949), (493, 12063), (520, 12150), (543, 12195), (547, 12210), (588, 12330), (591, 12342), (604, 12408), (615, 12450), (619, 12462), (628, 12486), (635, 12507), (637, 12516), (643, 12537), (654, 12579), (677, 12669), (686, 12699), (711, 12753), (749, 12882),

Gene: Moki_14 Start: 9720, Stop: 12287, Start Num: 19
Candidate Starts for Moki_14:
(15, 9699), (Start: 19 @9720 has 29 MA's), (29, 9768), (42, 9849), (47, 9873), (68, 9945), (75, 9993), (76, 10008), (78, 10014), (114, 10176), (135, 10269), (136, 10272), (137, 10275), (142, 10305), (154, 10362), (185, 10500), (191, 10521), (202, 10566), (212, 10593), (222, 10626), (230, 10644), (243, 10686), (266, 10743), (377, 11007), (387, 11034), (391, 11052), (393, 11058), (400, 11082), (408, 11103), (419, 11139), (427, 11166), (437, 11196), (438, 11202), (456, 11253), (467, 11286), (480, 11325), (481, 11331), (483, 11337), (486, 11346), (489, 11358), (491, 11364), (498, 11388), (505,

11409), (508, 11418), (518, 11457), (524, 11475), (536, 11508), (539, 11511), (542, 11523), (545, 11538), (560, 11589), (577, 11622), (581, 11640), (588, 11664), (596, 11706), (611, 11772), (615, 11784), (631, 11829), (651, 11904), (652, 11907), (665, 11961), (675, 12000), (683, 12027), (695, 12057), (701, 12069), (705, 12081), (707, 12090), (730, 12156), (739, 12198), (746, 12228),

Gene: MonChoix_16 Start: 9415, Stop: 11679, Start Num: 22
Candidate Starts for MonChoix_16:
(Start: 22 @9415 has 123 MA's), (41, 9532), (50, 9562), (67, 9622), (75, 9673), (79, 9697), (90, 9754), (92, 9763), (104, 9826), (109, 9841), (112, 9850), (133, 9934), (141, 9979), (147, 10009), (168, 10099), (178, 10159), (196, 10216), (216, 10270), (234, 10333), (235, 10336), (239, 10348), (261, 10414), (275, 10447), (278, 10459), (292, 10492), (305, 10525), (323, 10576), (333, 10609), (340, 10627), (342, 10639), (359, 10678), (371, 10711), (372, 10717), (383, 10744), (390, 10765), (392, 10771), (394, 10777), (398, 10789), (412, 10819), (421, 10840), (436, 10885), (451, 10933), (454, 10942), (484, 11035), (506, 11107), (522, 11161), (582, 11239), (590, 11269), (591, 11272), (600, 11320), (610, 11362), (626, 11410), (631, 11425), (643, 11467), (674, 11569), (675, 11575), (678, 11584), (697, 11641),

Gene: MooKitty_12 Start: 6819, Stop: 8936, Start Num: 28
Candidate Starts for MooKitty_12:
(26, 6807), (Start: 28 @6819 has 4 MA's), (31, 6837), (33, 6843), (39, 6873), (40, 6882), (69, 6990), (79, 7056), (86, 7089), (95, 7143), (100, 7164), (111, 7203), (116, 7224), (160, 7419), (175, 7491), (184, 7533), (186, 7539), (203, 7590), (212, 7614), (238, 7653), (271, 7728), (274, 7734), (286, 7764), (288, 7767), (321, 7818), (332, 7827), (337, 7839), (351, 7854), (362, 7872), (368, 7887), (377, 7917), (384, 7938), (400, 7974), (401, 7977), (404, 7986), (435, 8037), (447, 8076), (461, 8097), (475, 8130), (488, 8169), (492, 8181), (493, 8184), (498, 8202), (502, 8214), (543, 8334), (546, 8346), (550, 8367), (558, 8391), (564, 8403), (612, 8580), (634, 8640), (644, 8667), (648, 8688), (652, 8700), (670, 8769), (688, 8826), (716, 8895),

Gene: Morrigan_18 Start: 10782, Stop: 13211, Start Num: 23
Candidate Starts for Morrigan_18:
(Start: 23 @10782 has 80 MA's), (24, 10797), (29, 10815), (67, 10986), (75, 11037), (79, 11061), (90, 11118), (112, 11214), (133, 11298), (141, 11343), (147, 11373), (168, 11463), (178, 11523), (216, 11634), (234, 11697), (235, 11700), (239, 11712), (253, 11757), (272, 11799), (287, 11844), (295, 11862), (314, 11910), (326, 11952), (333, 11973), (334, 11976), (338, 11985), (353, 12033), (364, 12054), (392, 12135), (401, 12165), (404, 12174), (423, 12213), (428, 12225), (437, 12252), (441, 12267), (443, 12273), (454, 12306), (479, 12381), (506, 12471), (513, 12501), (518, 12513), (519, 12516), (527, 12540), (535, 12561), (536, 12567), (538, 12579), (558, 12657), (582, 12735), (588, 12756), (590, 12765), (605, 12834), (630, 12918), (631, 12921), (661, 13032), (696, 13143), (703, 13170), (713, 13194),

Gene: Moss_16 Start: 10335, Stop: 12755, Start Num: 21
Candidate Starts for Moss_16:
(Start: 21 @10335 has 80 MA's), (36, 10422), (62, 10527), (65, 10539), (75, 10599), (95, 10710), (116, 10791), (144, 10917), (147, 10932), (160, 10986), (201, 11160), (240, 11244), (248, 11265), (266, 11307), (335, 11433), (351, 11454), (368, 11487), (388, 11544), (399, 11586), (404, 11601), (421, 11652), (433, 11688), (435, 11694), (478, 11796), (484, 11817), (497, 11859), (518, 11919), (520, 11925), (539, 11973), (572, 12069), (615, 12246), (619, 12258), (636, 12309), (658, 12390), (675, 12459), (686, 12495), (719, 12576), (726, 12591), (743, 12663), (749, 12687),

Gene: MrBoss_18 Start: 12597, Stop: 15152, Start Num: 19
Candidate Starts for MrBoss_18:
(15, 12576), (Start: 19 @12597 has 29 MA's), (29, 12645), (42, 12726), (47, 12750), (68, 12822), (75, 12870), (76, 12885), (78, 12891), (114, 13053), (136, 13149), (137, 13152), (142, 13182), (173,

13320), (202, 13443), (222, 13503), (230, 13521), (235, 13536), (252, 13587), (351, 13818), (379, 13887), (387, 13911), (391, 13929), (393, 13935), (409, 13989), (413, 14001), (420, 14022), (428, 14046), (457, 14133), (465, 14157), (467, 14163), (468, 14166), (472, 14178), (479, 14199), (480, 14202), (481, 14208), (483, 14214), (488, 14232), (489, 14235), (491, 14241), (505, 14286), (508, 14295), (512, 14313), (518, 14334), (521, 14343), (524, 14352), (539, 14388), (541, 14397), (542, 14400), (545, 14415), (554, 14451), (588, 14541), (611, 14649), (615, 14661), (622, 14682), (623, 14685), (651, 14781), (652, 14784), (665, 14838), (675, 14877), (695, 14934), (712, 14976), (730, 15024), (739, 15066), (746, 15096),

Gene: MrWorldwide_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for MrWorldwide_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (326, 10537), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: MsUbiquitous_16 Start: 10399, Stop: 13161, Start Num: 17
Candidate Starts for MsUbiquitous_16:
(Start: 17 @10399 has 71 MA's), (47, 10552), (49, 10558), (58, 10588), (61, 10597), (67, 10621), (79, 10693), (124, 10885), (144, 10984), (159, 11056), (175, 11134), (176, 11143), (178, 11146), (190, 11191), (193, 11200), (219, 11284), (221, 11293), (223, 11299), (227, 11311), (229, 11323), (233, 11335), (255, 11416), (294, 11503), (305, 11530), (308, 11539), (338, 11638), (350, 11677), (386, 11773), (393, 11797), (416, 11851), (436, 11908), (461, 11986), (495, 12100), (504, 12127), (543, 12262), (561, 12322), (588, 12400), (593, 12421), (601, 12469), (626, 12562), (641, 12607), (644, 12622), (654, 12661), (670, 12730), (675, 12748), (676, 12751), (679, 12763), (688, 12790), (727, 12916), (730, 12931), (734, 12946),

Gene: Mudpuppy_16 Start: 10729, Stop: 13044, Start Num: 21
Candidate Starts for Mudpuppy_16:
(Start: 21 @10729 has 80 MA's), (47, 10885), (49, 10894), (71, 10975), (72, 10987), (81, 11035), (82, 11038), (89, 11080), (105, 11152), (128, 11233), (129, 11236), (134, 11266), (145, 11320), (150, 11350), (166, 11407), (172, 11431), (183, 11491), (296, 11716), (371, 11812), (393, 11875), (396, 11884), (424, 11932), (432, 11953), (442, 11986), (457, 12028), (470, 12067), (488, 12127), (535, 12268), (585, 12397), (587, 12406), (593, 12430), (598, 12463), (608, 12499), (611, 12517), (645, 12628), (651, 12649), (652, 12652), (660, 12685), (681, 12763), (695, 12802), (718, 12862), (729, 12892), (741, 12943), (752, 12988), (762, 13033),

Gene: Mysterium_16 Start: 10336, Stop: 12756, Start Num: 21
Candidate Starts for Mysterium_16:
(Start: 21 @10336 has 80 MA's), (36, 10423), (62, 10528), (65, 10540), (75, 10600), (95, 10711), (116, 10792), (144, 10918), (147, 10933), (160, 10987), (201, 11161), (240, 11245), (248, 11266), (266, 11308), (335, 11434), (351, 11455), (368, 11488), (388, 11545), (399, 11587), (404, 11602), (421, 11653), (433, 11689), (435, 11695), (478, 11797), (484, 11818), (497, 11860), (518, 11920), (520, 11926), (539, 11974), (572, 12070), (609, 12226), (615, 12247), (619, 12259), (636, 12310), (675, 12460), (686, 12496), (719, 12577), (743, 12664), (749, 12688),

Gene: Nagem_17 Start: 9358, Stop: 11628, Start Num: 22
Candidate Starts for Nagem_17:

(Start: 22 @9358 has 123 MA's), (41, 9475), (50, 9505), (67, 9565), (75, 9616), (79, 9640), (90, 9697), (109, 9784), (112, 9793), (133, 9877), (141, 9922), (146, 9949), (147, 9952), (168, 10042), (178, 10102), (196, 10159), (204, 10180), (234, 10276), (235, 10279), (239, 10291), (247, 10321), (278, 10402), (287, 10423), (292, 10435), (305, 10468), (326, 10531), (330, 10546), (333, 10552), (342, 10582), (359, 10621), (371, 10654), (372, 10660), (377, 10672), (383, 10687), (387, 10699), (390, 10708), (392, 10714), (412, 10762), (436, 10828), (454, 10885), (506, 11050), (522, 11104), (582, 11182), (590, 11212), (591, 11215), (600, 11263), (626, 11353), (631, 11368), (645, 11422), (650, 11437), (675, 11524), (678, 11533), (697, 11590),

Gene: Nattles_17 Start: 9651, Stop: 11921, Start Num: 22
Candidate Starts for Nattles_17:
(Start: 22 @9651 has 123 MA's), (41, 9768), (50, 9798), (67, 9858), (75, 9909), (79, 9933), (90, 9990), (104, 10062), (109, 10077), (112, 10086), (133, 10170), (141, 10215), (147, 10245), (168, 10335), (178, 10395), (196, 10452), (204, 10473), (234, 10569), (235, 10572), (247, 10614), (278, 10695), (287, 10716), (292, 10728), (305, 10761), (333, 10845), (342, 10875), (359, 10914), (371, 10947), (372, 10953), (383, 10980), (387, 10992), (390, 11001), (392, 11007), (403, 11043), (412, 11055), (423, 11085), (436, 11121), (437, 11124), (454, 11178), (484, 11271), (506, 11343), (522, 11397), (582, 11475), (590, 11505), (591, 11508), (600, 11556), (605, 11574), (613, 11607), (626, 11646), (631, 11661), (643, 11703), (667, 11790), (675, 11817), (697, 11883),

Gene: Nebulous_18 Start: 10617, Stop: 13052, Start Num: 23
Candidate Starts for Nebulous_18:
(Start: 23 @10617 has 80 MA's), (53, 10767), (57, 10782), (72, 10851), (79, 10893), (90, 10950), (93, 10968), (112, 11046), (117, 11067), (123, 11085), (133, 11130), (141, 11175), (168, 11286), (178, 11346), (198, 11421), (212, 11463), (226, 11508), (234, 11538), (235, 11541), (239, 11553), (247, 11583), (253, 11598), (255, 11607), (278, 11664), (287, 11685), (290, 11691), (295, 11703), (308, 11739), (333, 11814), (334, 11817), (342, 11844), (367, 11904), (375, 11931), (383, 11949), (392, 11976), (422, 12048), (423, 12054), (428, 12066), (441, 12108), (443, 12114), (454, 12147), (465, 12180), (479, 12222), (503, 12303), (519, 12357), (530, 12390), (538, 12420), (555, 12489), (558, 12498), (582, 12576), (590, 12606), (591, 12609), (600, 12657), (602, 12663), (612, 12705), (626, 12747), (631, 12762), (645, 12828), (647, 12837), (699, 13011), (706, 13035),

Gene: Neferthena_18 Start: 10628, Stop: 13066, Start Num: 23
Candidate Starts for Neferthena_18:
(Start: 23 @10628 has 80 MA's), (53, 10778), (79, 10904), (83, 10919), (90, 10961), (93, 10979), (98, 11003), (112, 11057), (117, 11078), (123, 11096), (133, 11141), (141, 11186), (168, 11297), (178, 11357), (198, 11432), (226, 11519), (234, 11549), (235, 11552), (239, 11564), (247, 11594), (253, 11609), (287, 11696), (290, 11702), (295, 11714), (327, 11807), (333, 11825), (334, 11828), (342, 11855), (367, 11915), (375, 11942), (422, 12059), (423, 12065), (428, 12077), (441, 12119), (443, 12125), (454, 12158), (465, 12191), (479, 12233), (503, 12314), (506, 12323), (513, 12353), (527, 12392), (530, 12401), (538, 12431), (555, 12500), (558, 12509), (582, 12587), (591, 12620), (600, 12668), (602, 12674), (631, 12773), (645, 12839), (647, 12848), (699, 13025), (706, 13049),

Gene: Neuvillette_17 Start: 9567, Stop: 11855, Start Num: 16
Candidate Starts for Neuvillette_17:
(Start: 16 @9567 has 3 MA's), (Start: 18 @9570 has 8 MA's), (37, 9669), (73, 9828), (122, 10044), (151, 10188), (177, 10299), (186, 10335), (197, 10377), (285, 10515), (297, 10545), (298, 10548), (307, 10566), (336, 10608), (396, 10692), (403, 10716), (426, 10764), (439, 10806), (441, 10812), (456, 10854), (462, 10872), (476, 10914), (480, 10926), (486, 10947), (492, 10968), (494, 10977), (496, 10983), (502, 11001), (503, 11004), (511, 11034), (513, 11043), (539, 11112), (545, 11139), (546, 11142), (572, 11208), (578, 11229), (585, 11253), (591, 11277), (597, 11316), (615, 11385), (618, 11394), (628, 11421), (651, 11505), (652, 11508), (675, 11601), (677, 11607), (694, 11658), (705, 11682), (707, 11691), (728, 11736), (756, 11850),

Gene: NickSell_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for NickSell_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Nicky22_17 Start: 10807, Stop: 13566, Start Num: 17
Candidate Starts for Nicky22_17:
(Start: 17 @10807 has 71 MA's), (47, 10960), (49, 10966), (61, 11005), (67, 11029), (79, 11101), (124, 11293), (135, 11353), (144, 11392), (159, 11464), (175, 11542), (176, 11551), (178, 11554), (190, 11599), (193, 11608), (219, 11692), (221, 11701), (223, 11707), (227, 11719), (229, 11731), (233, 11743), (255, 11824), (294, 11911), (308, 11947), (338, 12046), (393, 12205), (429, 12295), (432, 12304), (436, 12316), (461, 12394), (495, 12508), (504, 12535), (531, 12619), (557, 12712), (565, 12730), (568, 12739), (588, 12805), (624, 12958), (626, 12967), (641, 13012), (644, 13027), (654, 13066), (670, 13135), (675, 13153), (676, 13156), (679, 13168), (688, 13195), (727, 13321), (734, 13351),

Gene: Niobe_16 Start: 10704, Stop: 13028, Start Num: 21
Candidate Starts for Niobe_16:
(Start: 21 @10704 has 80 MA's), (46, 10857), (47, 10860), (49, 10869), (71, 10950), (81, 11010), (89, 11055), (105, 11127), (128, 11208), (129, 11211), (134, 11241), (145, 11295), (150, 11325), (166, 11382), (172, 11406), (183, 11466), (185, 11472), (194, 11496), (231, 11592), (296, 11691), (371, 11787), (383, 11820), (396, 11859), (424, 11907), (442, 11961), (457, 12003), (470, 12042), (476, 12060), (488, 12102), (517, 12195), (583, 12366), (587, 12381), (611, 12492), (651, 12624), (652, 12627), (660, 12660), (681, 12738), (695, 12777), (718, 12837), (741, 12927),

Gene: Nitro_16 Start: 10728, Stop: 13052, Start Num: 21
Candidate Starts for Nitro_16:
(Start: 21 @10728 has 80 MA's), (44, 10875), (47, 10884), (59, 10926), (71, 10974), (81, 11034), (89, 11079), (105, 11151), (124, 11211), (129, 11235), (134, 11265), (145, 11319), (150, 11349), (166, 11406), (172, 11430), (183, 11490), (185, 11496), (216, 11595), (295, 11712), (371, 11811), (396, 11883), (424, 11931), (457, 12027), (470, 12066), (476, 12084), (488, 12126), (493, 12141), (517, 12219), (583, 12390), (587, 12405), (598, 12462), (608, 12498), (611, 12516), (651, 12648), (652, 12651), (660, 12684), (681, 12762), (695, 12801), (718, 12861), (741, 12951), (752, 12996), (762, 13041),

Gene: Nubia_18 Start: 12596, Stop: 15157, Start Num: 19
Candidate Starts for Nubia_18:
(15, 12575), (Start: 19 @12596 has 29 MA's), (35, 12686), (42, 12725), (50, 12761), (68, 12821), (75, 12869), (76, 12884), (114, 13052), (126, 13097), (136, 13148), (137, 13151), (152, 13235), (197, 13421), (207, 13457), (212, 13469), (225, 13511), (351, 13820), (387, 13913), (391, 13931), (393, 13937), (419, 14018), (420, 14024), (429, 14051), (438, 14081), (460, 14144), (465, 14159), (467, 14165), (468, 14168), (472, 14180), (480, 14204), (483, 14216), (485, 14222), (489, 14237), (491, 14243), (492, 14246), (498, 14267), (503, 14282), (505, 14288), (508, 14297), (512, 14315), (513, 14321), (518, 14336), (521, 14345), (524, 14354), (536, 14387), (539, 14390), (542, 14402), (543, 14408), (546, 14420), (560, 14468), (572, 14486), (577, 14501), (585, 14531), (587, 14540), (599, 14600), (611, 14651), (623, 14687), (631, 14708), (651, 14783), (652, 14786), (665, 14840), (675,

14879), (695, 14936), (705, 14960), (722, 15002), (730, 15029), (746, 15098),

Gene: Nucci_16 Start: 9618, Stop: 12029, Start Num: 23
Candidate Starts for Nucci_16:
(7, 9555), (Start: 23 @9618 has 80 MA's), (24, 9633), (29, 9651), (41, 9732), (66, 9816), (68, 9825), (79, 9897), (90, 9954), (104, 10026), (109, 10041), (112, 10050), (124, 10092), (133, 10134), (141, 10179), (147, 10209), (156, 10251), (168, 10299), (178, 10359), (186, 10389), (196, 10416), (226, 10503), (234, 10533), (235, 10536), (241, 10557), (261, 10614), (278, 10659), (287, 10680), (333, 10809), (352, 10866), (353, 10869), (372, 10917), (375, 10926), (383, 10944), (390, 10965), (392, 10971), (423, 11049), (436, 11085), (437, 11088), (439, 11097), (443, 11109), (453, 11139), (454, 11142), (464, 11172), (513, 11337), (527, 11376), (544, 11439), (569, 11526), (590, 11601), (591, 11604), (600, 11652), (610, 11694), (612, 11700), (631, 11757), (655, 11847), (675, 11925), (678, 11934), (697, 11991), (706, 12018), (708, 12021),

Gene: Oats_17 Start: 9667, Stop: 11937, Start Num: 22
Candidate Starts for Oats_17:
(Start: 22 @9667 has 123 MA's), (41, 9784), (50, 9814), (67, 9874), (75, 9925), (79, 9949), (90, 10006), (109, 10093), (112, 10102), (133, 10186), (141, 10231), (146, 10258), (147, 10261), (168, 10351), (178, 10411), (196, 10468), (204, 10489), (234, 10585), (235, 10588), (247, 10630), (278, 10711), (287, 10732), (292, 10744), (305, 10777), (330, 10855), (333, 10861), (342, 10891), (359, 10930), (371, 10963), (372, 10969), (377, 10981), (383, 10996), (387, 11008), (390, 11017), (392, 11023), (412, 11071), (422, 11095), (423, 11101), (436, 11137), (454, 11194), (506, 11359), (522, 11413), (582, 11491), (590, 11521), (591, 11524), (600, 11572), (626, 11662), (631, 11677), (643, 11719), (645, 11731), (650, 11746), (675, 11833), (678, 11842), (697, 11899),

Gene: ObiToo_16 Start: 10917, Stop: 13223, Start Num: 21
Candidate Starts for ObiToo_16:
(Start: 21 @10917 has 80 MA's), (46, 11070), (47, 11073), (49, 11082), (81, 11223), (105, 11340), (129, 11424), (134, 11454), (145, 11508), (166, 11595), (172, 11619), (183, 11679), (185, 11685), (204, 11751), (295, 11901), (296, 11904), (393, 12063), (396, 12072), (424, 12120), (442, 12174), (457, 12216), (470, 12255), (488, 12315), (493, 12330), (517, 12408), (535, 12456), (564, 12531), (573, 12543), (585, 12585), (587, 12594), (611, 12705), (651, 12837), (652, 12840), (681, 12951), (695, 12990), (717, 13044), (722, 13065), (729, 13080), (749, 13158),

Gene: OldNelly_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for OldNelly_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (422, 10792), (423, 10798), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (643, 11416), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Olliecat_15 Start: 10032, Stop: 13001, Start Num: 1
Candidate Starts for Olliecat_15:
(Start: 1 @10032 has 3 MA's), (4, 10107), (5, 10122), (24, 10230), (45, 10356), (48, 10368), (58, 10401), (88, 10554), (91, 10566), (94, 10584), (97, 10602), (103, 10629), (106, 10638), (110, 10650), (130, 10731), (132, 10743), (134, 10758), (144, 10806), (148, 10830), (158, 10875), (165, 10905), (172, 10935), (174, 10947), (192, 11025), (197, 11046), (209, 11085), (218, 11109), (241, 11190), (243, 11196), (263, 11259), (289, 11325), (296, 11343), (303, 11361), (310, 11382), (361, 11541), (394, 11637), (400, 11658), (469, 11847), (495, 11937), (517, 12009), (543, 12099), (549, 12123),

(553, 12141), (561, 12159), (581, 12216), (588, 12240), (590, 12249), (621, 12384), (624, 12393), (641, 12453), (644, 12468), (645, 12477), (654, 12507), (663, 12546), (679, 12609), (688, 12636), (718, 12735), (727, 12762), (730, 12777), (741, 12828), (742, 12831),

Gene: Origami_15 Start: 8974, Stop: 11217, Start Num: 21
Candidate Starts for Origami_15:
(Start: 21 @8974 has 80 MA's), (36, 9061), (60, 9163), (73, 9229), (94, 9334), (122, 9445), (124, 9451), (143, 9547), (151, 9589), (186, 9736), (191, 9754), (276, 9856), (389, 10012), (418, 10090), (437, 10138), (439, 10147), (445, 10165), (460, 10207), (463, 10216), (472, 10243), (481, 10273), (491, 10306), (521, 10408), (524, 10417), (529, 10429), (536, 10450), (539, 10453), (546, 10483), (584, 10591), (651, 10846), (655, 10858), (675, 10942), (677, 10948), (686, 10978),

Gene: Orpington_16 Start: 9444, Stop: 11852, Start Num: 23
Candidate Starts for Orpington_16:
(Start: 23 @9444 has 80 MA's), (24, 9459), (41, 9558), (67, 9648), (79, 9723), (90, 9780), (92, 9789), (104, 9852), (109, 9867), (112, 9876), (133, 9960), (141, 10005), (147, 10035), (156, 10077), (168, 10125), (178, 10185), (196, 10242), (226, 10329), (234, 10359), (235, 10362), (239, 10374), (287, 10506), (290, 10512), (309, 10563), (326, 10614), (327, 10617), (339, 10650), (342, 10665), (348, 10677), (364, 10716), (383, 10770), (390, 10791), (392, 10797), (422, 10869), (423, 10875), (436, 10911), (437, 10914), (454, 10968), (475, 11031), (479, 11043), (484, 11061), (506, 11133), (513, 11163), (526, 11199), (535, 11223), (543, 11262), (551, 11298), (554, 11307), (562, 11328), (590, 11427), (591, 11430), (600, 11478), (626, 11568), (631, 11583), (643, 11628), (649, 11655), (655, 11673), (659, 11694), (664, 11712), (667, 11721), (674, 11742), (675, 11748), (678, 11757), (697, 11814), (706, 11841), (708, 11844),

Gene: Oxtober96_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Oxtober96_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: Oxynfrius_18 Start: 12609, Stop: 15170, Start Num: 19
Candidate Starts for Oxynfrius_18:
(15, 12588), (Start: 19 @12609 has 29 MA's), (35, 12699), (42, 12738), (50, 12774), (68, 12834), (75, 12882), (76, 12897), (114, 13065), (126, 13110), (136, 13161), (137, 13164), (152, 13248), (197, 13434), (207, 13470), (212, 13482), (225, 13524), (266, 13635), (351, 13833), (387, 13926), (393, 13950), (394, 13953), (419, 14031), (420, 14037), (429, 14064), (438, 14094), (460, 14157), (465, 14172), (468, 14181), (469, 14184), (472, 14193), (480, 14217), (483, 14229), (485, 14235), (489, 14250), (491, 14256), (492, 14259), (498, 14280), (503, 14295), (508, 14310), (512, 14328), (513, 14334), (518, 14349), (521, 14358), (524, 14367), (536, 14400), (539, 14403), (542, 14415), (543, 14421), (546, 14433), (572, 14499), (577, 14514), (585, 14544), (587, 14553), (611, 14664), (623, 14700), (631, 14721), (651, 14796), (652, 14799), (665, 14853), (675, 14892), (695, 14949), (705, 14973), (722, 15015), (730, 15042), (746, 15111),

Gene: PSirce_16 Start: 9447, Stop: 11855, Start Num: 23
Candidate Starts for PSirce_16:
(Start: 23 @9447 has 80 MA's), (24, 9462), (41, 9561), (67, 9651), (79, 9726), (90, 9783), (92, 9792), (104, 9855), (109, 9870), (112, 9879), (133, 9963), (141, 10008), (147, 10038), (156, 10080), (168,

10128), (178, 10188), (196, 10245), (226, 10332), (234, 10362), (235, 10365), (239, 10377), (287, 10509), (290, 10515), (309, 10566), (326, 10617), (327, 10620), (339, 10653), (342, 10668), (348, 10680), (364, 10719), (383, 10773), (390, 10794), (392, 10800), (422, 10872), (423, 10878), (436, 10914), (437, 10917), (454, 10971), (475, 11034), (479, 11046), (484, 11064), (506, 11136), (513, 11166), (526, 11202), (535, 11226), (543, 11265), (551, 11301), (554, 11310), (562, 11331), (590, 11430), (591, 11433), (600, 11481), (626, 11571), (631, 11586), (643, 11631), (649, 11658), (655, 11676), (659, 11697), (664, 11715), (667, 11724), (674, 11745), (675, 11751), (678, 11760), (697, 11817), (706, 11844), (708, 11847),

Gene: Pajaza_16 Start: 9601, Stop: 11994, Start Num: 23
Candidate Starts for Pajaza_16:
(Start: 23 @9601 has 80 MA's), (53, 9754), (67, 9805), (79, 9880), (80, 9883), (90, 9937), (109, 10021), (112, 10030), (117, 10051), (133, 10114), (141, 10159), (150, 10201), (168, 10270), (178, 10330), (204, 10408), (239, 10519), (253, 10564), (254, 10570), (290, 10657), (326, 10759), (342, 10810), (343, 10813), (367, 10870), (475, 11176), (479, 11188), (506, 11278), (513, 11308), (514, 11311), (543, 11407), (572, 11506), (586, 11554), (606, 11644), (626, 11713), (642, 11773), (655, 11818), (674, 11884), (675, 11890), (678, 11899), (697, 11956),

Gene: PandaPo_16 Start: 10713, Stop: 12947, Start Num: 21
Candidate Starts for PandaPo_16:
(Start: 21 @10713 has 80 MA's), (47, 10869), (49, 10878), (57, 10905), (71, 10959), (72, 10971), (81, 11019), (105, 11136), (128, 11217), (129, 11220), (134, 11250), (150, 11334), (166, 11391), (172, 11415), (183, 11475), (206, 11544), (213, 11562), (258, 11613), (280, 11634), (294, 11655), (360, 11700), (393, 11796), (396, 11805), (424, 11853), (428, 11862), (457, 11949), (493, 12063), (520, 12150), (543, 12195), (547, 12210), (588, 12330), (591, 12342), (604, 12408), (615, 12450), (619, 12462), (628, 12486), (635, 12507), (637, 12516), (643, 12537), (654, 12579), (677, 12669), (686, 12699), (711, 12753), (749, 12882),

Gene: Papafritta_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for Papafritta_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (64, 9849), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: ParleG_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for ParleG_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: PartyCup_18 Start: 12644, Stop: 15199, Start Num: 19
Candidate Starts for PartyCup_18:

(15, 12623), (Start: 19 @12644 has 29 MA's), (29, 12692), (42, 12773), (47, 12797), (68, 12869), (75, 12917), (76, 12932), (78, 12938), (114, 13100), (126, 13145), (136, 13196), (137, 13199), (142, 13229), (173, 13367), (202, 13490), (222, 13550), (230, 13568), (235, 13583), (252, 13634), (351, 13865), (379, 13934), (387, 13958), (391, 13976), (393, 13982), (409, 14036), (413, 14048), (420, 14069), (428, 14093), (457, 14180), (465, 14204), (467, 14210), (468, 14213), (472, 14225), (479, 14246), (480, 14249), (481, 14255), (483, 14261), (488, 14279), (489, 14282), (491, 14288), (505, 14333), (508, 14342), (512, 14360), (518, 14381), (521, 14390), (524, 14399), (536, 14432), (539, 14435), (541, 14444), (542, 14447), (554, 14498), (588, 14588), (611, 14696), (615, 14708), (622, 14729), (623, 14732), (651, 14828), (652, 14831), (665, 14885), (675, 14924), (695, 14981), (712, 15023), (730, 15071), (739, 15113), (746, 15143),

Gene: PastaFagioli_16 Start: 10364, Stop: 13126, Start Num: 17
Candidate Starts for PastaFagioli_16:
(Start: 17 @10364 has 71 MA's), (47, 10517), (51, 10529), (67, 10586), (79, 10658), (113, 10811), (124, 10850), (159, 11021), (175, 11099), (178, 11111), (179, 11114), (190, 11156), (215, 11237), (221, 11258), (239, 11318), (244, 11336), (255, 11381), (261, 11390), (305, 11495), (309, 11507), (316, 11534), (350, 11642), (382, 11726), (393, 11762), (429, 11852), (436, 11873), (461, 11951), (495, 12065), (504, 12092), (517, 12137), (543, 12227), (550, 12260), (561, 12287), (588, 12365), (593, 12386), (601, 12434), (626, 12527), (641, 12572), (644, 12587), (646, 12599), (654, 12626), (676, 12716), (679, 12728), (688, 12755), (727, 12881), (730, 12896), (734, 12911), (742, 12950), (763, 13040),

Gene: Pecas_16 Start: 10360, Stop: 13122, Start Num: 17
Candidate Starts for Pecas_16:
(Start: 17 @10360 has 71 MA's), (47, 10513), (58, 10549), (61, 10558), (88, 10699), (96, 10744), (118, 10828), (124, 10846), (159, 11017), (173, 11083), (175, 11095), (176, 11104), (190, 11152), (193, 11161), (219, 11245), (221, 11254), (223, 11260), (227, 11272), (229, 11284), (233, 11296), (255, 11377), (294, 11464), (305, 11491), (308, 11500), (338, 11599), (386, 11734), (393, 11758), (461, 11947), (495, 12061), (504, 12088), (543, 12223), (561, 12283), (588, 12361), (593, 12382), (601, 12430), (626, 12523), (641, 12568), (644, 12583), (654, 12622), (670, 12691), (675, 12709), (676, 12712), (679, 12724), (688, 12751), (727, 12877), (730, 12892), (734, 12907),

Gene: Peep_17 Start: 9353, Stop: 11623, Start Num: 22
Candidate Starts for Peep_17:
(Start: 22 @9353 has 123 MA's), (41, 9470), (50, 9500), (75, 9611), (79, 9635), (90, 9692), (104, 9764), (109, 9779), (112, 9788), (133, 9872), (141, 9917), (147, 9947), (168, 10037), (178, 10097), (196, 10154), (204, 10175), (234, 10271), (235, 10274), (247, 10316), (278, 10397), (287, 10418), (292, 10430), (305, 10463), (333, 10547), (342, 10577), (359, 10616), (371, 10649), (372, 10655), (383, 10682), (387, 10694), (390, 10703), (392, 10709), (403, 10745), (412, 10757), (423, 10787), (436, 10823), (454, 10880), (484, 10973), (506, 11045), (522, 11099), (582, 11177), (590, 11207), (591, 11210), (600, 11258), (610, 11300), (626, 11348), (631, 11363), (643, 11405), (675, 11519), (678, 11528), (697, 11585),

Gene: Penta_17 Start: 9798, Stop: 12236, Start Num: 23
Candidate Starts for Penta_17:
(Start: 23 @9798 has 80 MA's), (65, 9990), (79, 10074), (90, 10131), (93, 10149), (98, 10173), (112, 10227), (117, 10248), (133, 10311), (141, 10356), (155, 10416), (160, 10434), (168, 10467), (178, 10527), (186, 10557), (187, 10563), (198, 10602), (204, 10623), (205, 10626), (226, 10689), (234, 10719), (235, 10722), (239, 10734), (253, 10779), (254, 10785), (278, 10845), (287, 10866), (308, 10920), (309, 10923), (333, 10995), (339, 11010), (364, 11076), (383, 11130), (392, 11157), (401, 11187), (404, 11196), (423, 11235), (428, 11247), (437, 11274), (441, 11289), (443, 11295), (447, 11307), (454, 11328), (465, 11361), (475, 11391), (479, 11403), (519, 11538), (535, 11583), (538, 11601), (551, 11658), (558, 11679), (582, 11757), (590, 11787), (591, 11790), (602, 11844), (605,

11856), (630, 11940), (631, 11943), (633, 11955), (636, 11973), (647, 12018), (682, 12147), (687, 12162), (706, 12219),

Gene: Peppino_17 Start: 9762, Stop: 12029, Start Num: 22
Candidate Starts for Peppino_17:
(Start: 22 @9762 has 123 MA's), (50, 9909), (68, 9972), (75, 10020), (79, 10044), (90, 10101), (92, 10110), (104, 10173), (107, 10182), (109, 10188), (112, 10197), (133, 10281), (141, 10326), (147, 10356), (168, 10446), (178, 10506), (196, 10563), (204, 10584), (234, 10680), (235, 10683), (239, 10695), (253, 10740), (278, 10806), (287, 10827), (292, 10839), (305, 10872), (333, 10956), (342, 10986), (359, 11025), (364, 11037), (383, 11091), (390, 11112), (392, 11118), (412, 11166), (421, 11187), (436, 11232), (454, 11289), (484, 11382), (506, 11454), (522, 11508), (582, 11586), (590, 11616), (591, 11619), (600, 11667), (610, 11709), (626, 11757), (631, 11772), (643, 11814), (645, 11826), (675, 11925), (678, 11934), (697, 11991),

Gene: Phanita_16 Start: 9430, Stop: 11838, Start Num: 23
Candidate Starts for Phanita_16:
(Start: 23 @9430 has 80 MA's), (24, 9445), (41, 9544), (67, 9634), (79, 9709), (90, 9766), (92, 9775), (104, 9838), (109, 9853), (112, 9862), (133, 9946), (141, 9991), (147, 10021), (156, 10063), (168, 10111), (178, 10171), (196, 10228), (226, 10315), (234, 10345), (235, 10348), (239, 10360), (287, 10492), (290, 10498), (309, 10549), (326, 10600), (327, 10603), (333, 10621), (339, 10636), (342, 10651), (348, 10663), (364, 10702), (383, 10756), (390, 10777), (392, 10783), (422, 10855), (423, 10861), (436, 10897), (437, 10900), (454, 10954), (475, 11017), (479, 11029), (484, 11047), (506, 11119), (513, 11149), (522, 11173), (535, 11209), (543, 11248), (551, 11284), (554, 11293), (562, 11314), (590, 11413), (591, 11416), (600, 11464), (626, 11554), (631, 11569), (643, 11614), (649, 11641), (655, 11659), (659, 11680), (664, 11698), (667, 11707), (674, 11728), (678, 11743), (697, 11800), (706, 11827), (708, 11830),

Gene: Pherbot_17 Start: 9584, Stop: 11992, Start Num: 23
Candidate Starts for Pherbot_17:
(Start: 23 @9584 has 80 MA's), (41, 9698), (53, 9737), (67, 9788), (68, 9791), (75, 9839), (79, 9863), (90, 9920), (98, 9962), (109, 10007), (112, 10016), (133, 10100), (141, 10145), (147, 10175), (153, 10208), (156, 10217), (168, 10265), (178, 10325), (196, 10382), (234, 10499), (235, 10502), (239, 10514), (253, 10559), (277, 10622), (278, 10625), (282, 10637), (287, 10646), (290, 10652), (309, 10703), (326, 10754), (327, 10757), (333, 10775), (339, 10790), (342, 10805), (371, 10877), (380, 10901), (392, 10937), (437, 11054), (454, 11108), (465, 11141), (475, 11171), (513, 11303), (518, 11315), (522, 11327), (537, 11372), (541, 11393), (546, 11414), (554, 11447), (558, 11459), (562, 11468), (564, 11471), (569, 11492), (590, 11567), (591, 11570), (600, 11618), (626, 11708), (641, 11756), (648, 11792), (652, 11804), (675, 11888), (678, 11897), (697, 11954),

Gene: Pherferi_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for Pherferi_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Phiderman_17 Start: 9361, Stop: 11631, Start Num: 22
Candidate Starts for Phiderman_17:

(Start: 22 @9361 has 123 MA's), (41, 9478), (50, 9508), (67, 9568), (75, 9619), (79, 9643), (90, 9700), (109, 9787), (112, 9796), (133, 9880), (141, 9925), (146, 9952), (147, 9955), (168, 10045), (178, 10105), (196, 10162), (204, 10183), (234, 10279), (235, 10282), (247, 10324), (278, 10405), (287, 10426), (292, 10438), (305, 10471), (330, 10549), (333, 10555), (342, 10585), (359, 10624), (371, 10657), (372, 10663), (377, 10675), (383, 10690), (387, 10702), (390, 10711), (392, 10717), (412, 10765), (422, 10789), (423, 10795), (436, 10831), (454, 10888), (506, 11053), (522, 11107), (582, 11185), (590, 11215), (591, 11218), (600, 11266), (626, 11356), (631, 11371), (645, 11425), (650, 11440), (675, 11527), (678, 11536), (697, 11593),

Gene: PhigPhack_17 Start: 10362, Stop: 13121, Start Num: 17
Candidate Starts for PhigPhack_17:
(Start: 17 @10362 has 71 MA's), (47, 10515), (49, 10521), (61, 10560), (96, 10746), (118, 10830), (124, 10848), (144, 10947), (159, 11019), (173, 11085), (175, 11097), (176, 11106), (181, 11121), (190, 11154), (193, 11163), (197, 11181), (217, 11241), (219, 11247), (221, 11256), (223, 11262), (229, 11286), (233, 11298), (242, 11328), (255, 11379), (305, 11493), (309, 11505), (338, 11601), (350, 11640), (386, 11736), (393, 11760), (416, 11814), (429, 11850), (432, 11859), (436, 11871), (461, 11949), (495, 12063), (504, 12090), (531, 12174), (557, 12267), (565, 12285), (568, 12294), (588, 12360), (600, 12426), (626, 12522), (641, 12567), (644, 12582), (654, 12621), (670, 12690), (675, 12708), (676, 12711), (679, 12723), (688, 12750), (722, 12864), (727, 12876), (734, 12906), (758, 13014),

Gene: PhillyPhantom_17 Start: 9771, Stop: 12038, Start Num: 22
Candidate Starts for PhillyPhantom_17:
(Start: 22 @9771 has 123 MA's), (50, 9918), (68, 9981), (75, 10029), (79, 10053), (90, 10110), (92, 10119), (104, 10182), (107, 10191), (109, 10197), (112, 10206), (133, 10290), (141, 10335), (147, 10365), (168, 10455), (178, 10515), (196, 10572), (204, 10593), (234, 10689), (235, 10692), (239, 10704), (253, 10749), (278, 10815), (287, 10836), (292, 10848), (305, 10881), (333, 10965), (342, 10995), (359, 11034), (364, 11046), (383, 11100), (390, 11121), (392, 11127), (412, 11175), (421, 11196), (436, 11241), (454, 11298), (484, 11391), (522, 11517), (582, 11595), (590, 11625), (591, 11628), (600, 11676), (626, 11766), (631, 11781), (640, 11811), (675, 11934), (678, 11943), (697, 12000),

Gene: Phireproof_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for Phireproof_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Phisb_16 Start: 10373, Stop: 13135, Start Num: 17
Candidate Starts for Phisb_16:
(Start: 17 @10373 has 71 MA's), (47, 10526), (61, 10571), (96, 10757), (124, 10859), (159, 11030), (173, 11096), (175, 11108), (176, 11117), (190, 11165), (193, 11174), (197, 11192), (219, 11258), (221, 11267), (223, 11273), (229, 11297), (233, 11309), (255, 11390), (294, 11477), (305, 11504), (308, 11513), (338, 11612), (393, 11771), (416, 11825), (436, 11882), (461, 11960), (495, 12074), (504, 12101), (517, 12146), (543, 12236), (550, 12269), (561, 12296), (588, 12374), (593, 12395), (601, 12443), (626, 12536), (641, 12581), (644, 12596), (654, 12635), (670, 12704), (675, 12722), (676, 12725), (679, 12737), (688, 12764), (727, 12890), (730, 12905), (734, 12920),

Gene: Phives_17 Start: 11806, Stop: 14130, Start Num: 21
Candidate Starts for Phives_17:
(Start: 21 @11806 has 80 MA's), (47, 11962), (49, 11971), (71, 12052), (81, 12112), (89, 12157), (105, 12229), (124, 12289), (128, 12310), (129, 12313), (134, 12343), (145, 12397), (150, 12427), (166, 12484), (172, 12508), (183, 12568), (185, 12574), (296, 12793), (383, 12922), (393, 12952), (396, 12961), (424, 13009), (432, 13030), (442, 13063), (457, 13105), (470, 13144), (488, 13204), (493, 13219), (517, 13297), (544, 13354), (579, 13453), (582, 13465), (585, 13474), (593, 13507), (598, 13540), (599, 13543), (611, 13594), (651, 13726), (652, 13729), (681, 13840), (695, 13879), (718, 13939), (733, 13990), (741, 14029),

Gene: PhredFlintston_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for PhredFlintston_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Phriends_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for Phriends_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (422, 10792), (423, 10798), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (643, 11416), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Pikmin_16 Start: 9601, Stop: 11994, Start Num: 23
Candidate Starts for Pikmin_16:
(Start: 23 @9601 has 80 MA's), (53, 9754), (67, 9805), (79, 9880), (80, 9883), (90, 9937), (109, 10021), (112, 10030), (117, 10051), (133, 10114), (141, 10159), (150, 10201), (168, 10270), (178, 10330), (204, 10408), (239, 10519), (253, 10564), (254, 10570), (290, 10657), (326, 10759), (342, 10810), (343, 10813), (367, 10870), (475, 11176), (479, 11188), (506, 11278), (513, 11308), (514, 11311), (543, 11407), (572, 11506), (586, 11554), (590, 11572), (606, 11644), (626, 11713), (642, 11773), (655, 11818), (674, 11884), (675, 11890), (678, 11899), (697, 11956),

Gene: Pixelle_16 Start: 10749, Stop: 13073, Start Num: 21
Candidate Starts for Pixelle_16:
(Start: 21 @10749 has 80 MA's), (47, 10905), (49, 10914), (71, 10995), (81, 11055), (89, 11100), (105, 11172), (128, 11253), (129, 11256), (134, 11286), (145, 11340), (150, 11370), (166, 11427), (172, 11451), (182, 11505), (183, 11511), (185, 11517), (296, 11736), (396, 11904), (424, 11952), (432, 11973), (442, 12006), (457, 12048), (470, 12087), (488, 12147), (493, 12162), (512, 12228), (558, 12351), (585, 12417), (587, 12426), (598, 12483), (599, 12486), (611, 12537), (651, 12669), (652, 12672), (681, 12783), (695, 12822), (705, 12846), (741, 12972),

Gene: Pocket_17 Start: 9652, Stop: 11922, Start Num: 22
Candidate Starts for Pocket_17:

(Start: 22 @9652 has 123 MA's), (41, 9769), (50, 9799), (67, 9859), (75, 9910), (79, 9934), (90, 9991), (109, 10078), (112, 10087), (133, 10171), (141, 10216), (146, 10243), (147, 10246), (168, 10336), (178, 10396), (196, 10453), (204, 10474), (234, 10570), (235, 10573), (247, 10615), (278, 10696), (287, 10717), (292, 10729), (305, 10762), (330, 10840), (333, 10846), (342, 10876), (359, 10915), (371, 10948), (372, 10954), (377, 10966), (383, 10981), (387, 10993), (390, 11002), (392, 11008), (412, 11056), (422, 11080), (423, 11086), (436, 11122), (454, 11179), (506, 11344), (522, 11398), (582, 11476), (591, 11509), (600, 11557), (626, 11647), (631, 11662), (643, 11704), (645, 11716), (650, 11731), (675, 11818), (678, 11827), (697, 11884),

Gene: PondAmelia_17 Start: 10487, Stop: 13117, Start Num: 17
Candidate Starts for PondAmelia_17:
(Start: 17 @10487 has 71 MA's), (30, 10547), (47, 10640), (51, 10652), (61, 10685), (79, 10781), (113, 10934), (124, 10973), (159, 11144), (175, 11222), (179, 11237), (184, 11258), (190, 11279), (200, 11318), (215, 11360), (221, 11381), (239, 11441), (244, 11459), (254, 11501), (255, 11504), (264, 11522), (287, 11579), (305, 11618), (349, 11627), (350, 11630), (365, 11663), (371, 11684), (495, 12053), (496, 12056), (504, 12080), (510, 12104), (543, 12215), (561, 12275), (588, 12359), (600, 12425), (608, 12452), (620, 12500), (623, 12509), (624, 12512), (641, 12572), (644, 12587), (665, 12671), (679, 12719), (727, 12872), (730, 12887), (734, 12902), (753, 12989), (763, 13031),

Gene: Powerpuff_16 Start: 10781, Stop: 13096, Start Num: 21
Candidate Starts for Powerpuff_16:
(Start: 21 @10781 has 80 MA's), (47, 10937), (49, 10946), (71, 11027), (72, 11039), (81, 11087), (82, 11090), (89, 11132), (105, 11204), (128, 11285), (129, 11288), (134, 11318), (145, 11372), (150, 11402), (166, 11459), (172, 11483), (183, 11543), (296, 11768), (371, 11864), (393, 11927), (396, 11936), (424, 11984), (428, 11993), (432, 12005), (442, 12038), (457, 12080), (470, 12119), (488, 12179), (535, 12320), (564, 12395), (573, 12407), (585, 12449), (587, 12458), (593, 12482), (608, 12551), (611, 12569), (645, 12680), (651, 12701), (652, 12704), (660, 12737), (681, 12815), (695, 12854), (718, 12914), (729, 12944), (741, 12995), (752, 13040), (762, 13085),

Gene: Preamble_14 Start: 9721, Stop: 12279, Start Num: 19
Candidate Starts for Preamble_14:
(15, 9700), (Start: 19 @9721 has 29 MA's), (29, 9769), (42, 9850), (68, 9946), (74, 9991), (76, 10009), (78, 10015), (108, 10156), (114, 10177), (126, 10222), (136, 10273), (137, 10276), (142, 10306), (182, 10489), (202, 10567), (205, 10576), (207, 10582), (212, 10594), (222, 10627), (237, 10669), (252, 10714), (299, 10834), (301, 10837), (366, 10975), (387, 11035), (391, 11053), (393, 11059), (402, 11089), (419, 11140), (420, 11146), (434, 11188), (438, 11203), (441, 11212), (457, 11257), (460, 11266), (467, 11287), (471, 11299), (472, 11302), (479, 11323), (480, 11326), (481, 11332), (483, 11338), (489, 11359), (491, 11365), (497, 11386), (505, 11410), (508, 11419), (512, 11437), (518, 11458), (536, 11509), (539, 11512), (541, 11521), (542, 11524), (578, 11629), (582, 11644), (587, 11662), (601, 11731), (611, 11773), (615, 11785), (622, 11806), (623, 11809), (651, 11905), (652, 11908), (665, 11962), (675, 12001), (681, 12019), (692, 12049), (695, 12058), (712, 12100), (746, 12220),

Gene: PrincePhergus_17 Start: 9588, Stop: 11996, Start Num: 23
Candidate Starts for PrincePhergus_17:
(Start: 23 @9588 has 80 MA's), (41, 9702), (75, 9843), (79, 9867), (90, 9924), (98, 9966), (107, 10005), (109, 10011), (112, 10020), (133, 10104), (141, 10149), (147, 10179), (153, 10212), (156, 10221), (168, 10269), (178, 10329), (196, 10386), (234, 10503), (235, 10506), (239, 10518), (253, 10563), (278, 10629), (282, 10641), (287, 10650), (290, 10656), (309, 10707), (326, 10758), (327, 10761), (333, 10779), (339, 10794), (371, 10881), (380, 10905), (392, 10941), (437, 11058), (454, 11112), (465, 11145), (475, 11175), (506, 11277), (513, 11307), (518, 11319), (537, 11376), (541, 11397), (546, 11418), (554, 11451), (558, 11463), (562, 11472), (564, 11475), (569, 11496), (590, 11571), (591, 11574), (600, 11622), (612, 11670), (626, 11712), (643, 11772), (648, 11796), (675, 11892),

(678, 11901), (697, 11958),

Gene: Pumpkins_16 Start: 10836, Stop: 13160, Start Num: 21
Candidate Starts for Pumpkins_16:
(Start: 21 @10836 has 80 MA's), (47, 10992), (49, 11001), (50, 11004), (52, 11010), (71, 11082), (81, 11142), (105, 11259), (128, 11340), (129, 11343), (134, 11373), (150, 11457), (166, 11514), (172, 11538), (183, 11598), (185, 11604), (296, 11823), (396, 11991), (424, 12039), (442, 12093), (457, 12135), (470, 12174), (517, 12327), (578, 12480), (581, 12492), (598, 12570), (599, 12573), (611, 12624), (651, 12756), (652, 12759), (660, 12792), (681, 12870), (695, 12909),

Gene: PuppyEggo_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for PuppyEggo_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: QMacho_17 Start: 10843, Stop: 13605, Start Num: 17
Candidate Starts for QMacho_17:
(Start: 17 @10843 has 71 MA's), (47, 10996), (58, 11032), (61, 11041), (88, 11182), (96, 11227), (118, 11311), (124, 11329), (159, 11500), (173, 11566), (175, 11578), (176, 11587), (190, 11635), (193, 11644), (219, 11728), (221, 11737), (223, 11743), (227, 11755), (229, 11767), (233, 11779), (255, 11860), (294, 11947), (305, 11974), (308, 11983), (338, 12082), (386, 12217), (393, 12241), (461, 12430), (495, 12544), (504, 12571), (543, 12706), (561, 12766), (588, 12844), (593, 12865), (601, 12913), (626, 13006), (641, 13051), (644, 13066), (654, 13105), (670, 13174), (675, 13192), (676, 13195), (679, 13207), (688, 13234), (727, 13360), (730, 13375), (734, 13390),

Gene: QuadZero_18 Start: 9885, Stop: 12326, Start Num: 23
Candidate Starts for QuadZero_18:
(Start: 23 @9885 has 80 MA's), (29, 9918), (72, 10119), (79, 10161), (90, 10218), (93, 10236), (98, 10260), (112, 10314), (117, 10335), (133, 10398), (141, 10443), (150, 10485), (155, 10503), (168, 10554), (187, 10650), (204, 10710), (219, 10752), (226, 10776), (234, 10806), (235, 10809), (238, 10818), (253, 10866), (254, 10872), (285, 10950), (295, 10971), (300, 10986), (308, 11007), (333, 11082), (334, 11085), (353, 11142), (367, 11172), (392, 11244), (401, 11274), (404, 11283), (422, 11316), (423, 11322), (428, 11334), (438, 11367), (443, 11382), (454, 11415), (465, 11448), (475, 11478), (479, 11490), (518, 11622), (535, 11670), (536, 11676), (538, 11688), (555, 11757), (558, 11766), (582, 11844), (590, 11874), (630, 12027), (631, 12030), (633, 12042), (647, 12105), (653, 12123), (664, 12168), (680, 12228), (708, 12309), (710, 12312),

Gene: Quartz_16 Start: 9630, Stop: 12041, Start Num: 23
Candidate Starts for Quartz_16:
(7, 9567), (Start: 23 @9630 has 80 MA's), (24, 9645), (29, 9663), (41, 9744), (66, 9828), (68, 9837), (79, 9909), (90, 9966), (104, 10038), (109, 10053), (112, 10062), (124, 10104), (133, 10146), (141, 10191), (147, 10221), (156, 10263), (168, 10311), (178, 10371), (186, 10401), (196, 10428), (226, 10515), (234, 10545), (235, 10548), (241, 10569), (261, 10626), (278, 10671), (287, 10692), (333, 10821), (352, 10878), (353, 10881), (372, 10929), (375, 10938), (383, 10956), (390, 10977), (392, 10983), (423, 11061), (436, 11097), (439, 11109), (443, 11121), (454, 11154), (464, 11184), (513, 11349), (527, 11388), (544, 11451), (569, 11538), (590, 11613), (591, 11616), (600, 11664), (610, 11706), (612, 11712), (631, 11769), (653, 11853), (655, 11859), (675, 11937), (678, 11946), (697,

12003), (706, 12030), (708, 12033),

Gene: Quenya_16 Start: 9890, Stop: 12667, Start Num: 17
Candidate Starts for Quenya_16:
(Start: 17 @9890 has 71 MA's), (24, 9923), (43, 10031), (67, 10109), (117, 10361), (119, 10367), (120, 10370), (145, 10490), (149, 10511), (173, 10619), (178, 10643), (180, 10652), (246, 10871), (260, 10922), (269, 10940), (273, 10949), (278, 10970), (282, 10982), (345, 11168), (373, 11243), (393, 11300), (429, 11390), (432, 11399), (434, 11405), (436, 11411), (495, 11603), (504, 11630), (510, 11654), (518, 11678), (543, 11765), (553, 11807), (561, 11825), (580, 11879), (588, 11909), (601, 11978), (608, 12002), (623, 12059), (624, 12062), (641, 12122), (644, 12137), (646, 12149), (676, 12257), (679, 12269), (688, 12296), (700, 12338), (715, 12386), (727, 12422), (730, 12437), (731, 12440), (736, 12467),

Gene: Raccoon_17 Start: 9768, Stop: 12035, Start Num: 22
Candidate Starts for Raccoon_17:
(Start: 22 @9768 has 123 MA's), (50, 9915), (68, 9978), (75, 10026), (79, 10050), (90, 10107), (92, 10116), (104, 10179), (107, 10188), (109, 10194), (112, 10203), (133, 10287), (141, 10332), (147, 10362), (168, 10452), (178, 10512), (196, 10569), (234, 10686), (235, 10689), (239, 10701), (253, 10746), (261, 10767), (278, 10812), (287, 10833), (292, 10845), (305, 10878), (333, 10962), (342, 10992), (357, 11028), (359, 11031), (364, 11043), (383, 11097), (390, 11118), (392, 11124), (412, 11172), (421, 11193), (436, 11238), (454, 11295), (484, 11388), (506, 11460), (522, 11514), (582, 11592), (590, 11622), (591, 11625), (600, 11673), (610, 11715), (626, 11763), (631, 11778), (643, 11820), (645, 11832), (675, 11931), (678, 11940), (697, 11997),

Gene: Rapheph_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for Rapheph_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Raptor_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Raptor_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: RcigaStruga_18 Start: 12617, Stop: 15178, Start Num: 19
Candidate Starts for RcigaStruga_18:
(15, 12596), (Start: 19 @12617 has 29 MA's), (35, 12707), (42, 12746), (50, 12782), (68, 12842), (76, 12905), (114, 13073), (126, 13118), (135, 13166), (136, 13169), (137, 13172), (152, 13256), (154, 13259), (185, 13397), (202, 13463), (212, 13490), (225, 13532), (351, 13841), (366, 13874), (387, 13934), (393, 13958), (419, 14039), (420, 14045), (421, 14048), (429, 14072), (438, 14102), (445, 14123), (462, 14171), (467, 14186), (472, 14201), (480, 14225), (483, 14237), (485, 14243), (489,

14258), (491, 14264), (503, 14303), (505, 14309), (508, 14318), (512, 14336), (513, 14342), (516, 14354), (518, 14357), (521, 14366), (528, 14384), (536, 14408), (539, 14411), (542, 14423), (546, 14441), (572, 14507), (577, 14522), (585, 14552), (587, 14561), (599, 14621), (611, 14672), (623, 14708), (651, 14804), (652, 14807), (665, 14861), (675, 14900), (683, 14927), (695, 14957), (705, 14981), (722, 15023), (730, 15050), (746, 15119),

Gene: Redfield_17 Start: 9770, Stop: 12037, Start Num: 22
Candidate Starts for Redfield_17:
(Start: 22 @9770 has 123 MA's), (50, 9917), (68, 9980), (75, 10028), (79, 10052), (90, 10109), (92, 10118), (104, 10181), (107, 10190), (109, 10196), (112, 10205), (133, 10289), (141, 10334), (147, 10364), (168, 10454), (178, 10514), (196, 10571), (204, 10592), (234, 10688), (235, 10691), (239, 10703), (253, 10748), (278, 10814), (287, 10835), (292, 10847), (305, 10880), (333, 10964), (342, 10994), (359, 11033), (364, 11045), (383, 11099), (390, 11120), (392, 11126), (412, 11174), (421, 11195), (436, 11240), (454, 11297), (484, 11390), (506, 11462), (522, 11516), (582, 11594), (590, 11624), (591, 11627), (600, 11675), (610, 11717), (626, 11765), (631, 11780), (643, 11822), (645, 11834), (674, 11927), (675, 11933), (678, 11942), (697, 11999),

Gene: Reedo_16 Start: 10781, Stop: 13090, Start Num: 21
Candidate Starts for Reedo_16:
(Start: 21 @10781 has 80 MA's), (47, 10937), (49, 10946), (59, 10979), (71, 11027), (81, 11087), (105, 11204), (128, 11285), (129, 11288), (134, 11318), (145, 11372), (150, 11402), (166, 11459), (172, 11483), (176, 11513), (183, 11543), (185, 11549), (194, 11573), (212, 11636), (231, 11669), (287, 11747), (371, 11864), (450, 12062), (457, 12080), (470, 12119), (477, 12140), (488, 12179), (493, 12194), (505, 12233), (518, 12275), (547, 12341), (591, 12473), (601, 12527), (604, 12539), (627, 12614), (631, 12626), (654, 12710), (663, 12746), (677, 12800), (686, 12830), (730, 12944), (749, 13022),

Gene: RenegadeRaider_18 Start: 9587, Stop: 11995, Start Num: 23
Candidate Starts for RenegadeRaider_18:
(Start: 23 @9587 has 80 MA's), (41, 9701), (53, 9740), (75, 9842), (79, 9866), (90, 9923), (98, 9965), (107, 10004), (109, 10010), (112, 10019), (133, 10103), (141, 10148), (147, 10178), (153, 10211), (156, 10220), (168, 10268), (178, 10328), (196, 10385), (234, 10502), (235, 10505), (239, 10517), (253, 10562), (278, 10628), (282, 10640), (287, 10649), (290, 10655), (309, 10706), (326, 10757), (327, 10760), (333, 10778), (339, 10793), (371, 10880), (380, 10904), (392, 10940), (437, 11057), (454, 11111), (465, 11144), (475, 11174), (506, 11276), (513, 11306), (518, 11318), (537, 11375), (541, 11396), (546, 11417), (554, 11450), (558, 11462), (562, 11471), (564, 11474), (569, 11495), (581, 11537), (590, 11570), (591, 11573), (600, 11621), (612, 11669), (626, 11711), (643, 11771), (648, 11795), (675, 11891), (678, 11900), (697, 11957),

Gene: Renzie_17 Start: 9353, Stop: 11623, Start Num: 22
Candidate Starts for Renzie_17:
(Start: 22 @9353 has 123 MA's), (41, 9470), (50, 9500), (75, 9611), (79, 9635), (90, 9692), (104, 9764), (109, 9779), (112, 9788), (133, 9872), (141, 9917), (147, 9947), (168, 10037), (178, 10097), (196, 10154), (204, 10175), (234, 10271), (235, 10274), (247, 10316), (278, 10397), (287, 10418), (292, 10430), (305, 10463), (333, 10547), (342, 10577), (359, 10616), (371, 10649), (372, 10655), (383, 10682), (387, 10694), (390, 10703), (392, 10709), (403, 10745), (412, 10757), (423, 10787), (436, 10823), (454, 10880), (484, 10973), (506, 11045), (522, 11099), (582, 11177), (590, 11207), (591, 11210), (600, 11258), (610, 11300), (626, 11348), (631, 11363), (643, 11405), (675, 11519), (678, 11528), (697, 11585),

Gene: Riyhil_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for Riyhil_17:

(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (422, 10792), (423, 10798), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (643, 11416), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Roberts_17 Start: 9567, Stop: 11855, Start Num: 16
Candidate Starts for Roberts_17:
(Start: 16 @9567 has 3 MA's), (Start: 18 @9570 has 8 MA's), (37, 9669), (73, 9828), (122, 10044), (151, 10188), (177, 10299), (186, 10335), (197, 10377), (285, 10515), (297, 10545), (298, 10548), (307, 10566), (336, 10608), (396, 10692), (403, 10716), (426, 10764), (439, 10806), (441, 10812), (456, 10854), (462, 10872), (476, 10914), (480, 10926), (486, 10947), (492, 10968), (494, 10977), (496, 10983), (502, 11001), (503, 11004), (511, 11034), (513, 11043), (539, 11112), (545, 11139), (546, 11142), (572, 11208), (578, 11229), (585, 11253), (591, 11277), (597, 11316), (615, 11385), (618, 11394), (628, 11421), (651, 11505), (652, 11508), (675, 11601), (677, 11607), (694, 11658), (705, 11682), (707, 11691), (728, 11736), (756, 11850),

Gene: Robinson_17 Start: 9356, Stop: 11626, Start Num: 22
Candidate Starts for Robinson_17:
(Start: 22 @9356 has 123 MA's), (41, 9473), (50, 9503), (75, 9614), (79, 9638), (90, 9695), (104, 9767), (109, 9782), (112, 9791), (133, 9875), (141, 9920), (147, 9950), (168, 10040), (178, 10100), (196, 10157), (204, 10178), (234, 10274), (235, 10277), (247, 10319), (278, 10400), (287, 10421), (292, 10433), (305, 10466), (333, 10550), (342, 10580), (359, 10619), (371, 10652), (372, 10658), (383, 10685), (387, 10697), (390, 10706), (392, 10712), (403, 10748), (412, 10760), (423, 10790), (436, 10826), (454, 10883), (484, 10976), (506, 11048), (522, 11102), (582, 11180), (590, 11210), (591, 11213), (600, 11261), (610, 11303), (626, 11351), (631, 11366), (643, 11408), (675, 11522), (678, 11531), (697, 11588),

Gene: RockScotty_16 Start: 10335, Stop: 12755, Start Num: 21
Candidate Starts for RockScotty_16:
(Start: 21 @10335 has 80 MA's), (36, 10422), (62, 10527), (65, 10539), (75, 10599), (95, 10710), (116, 10791), (144, 10917), (147, 10932), (160, 10986), (201, 11160), (240, 11244), (248, 11265), (266, 11307), (335, 11433), (351, 11454), (368, 11487), (388, 11544), (399, 11586), (404, 11601), (421, 11652), (433, 11688), (435, 11694), (478, 11796), (484, 11817), (497, 11859), (518, 11919), (520, 11925), (539, 11973), (572, 12069), (615, 12246), (619, 12258), (636, 12309), (658, 12390), (675, 12459), (686, 12495), (719, 12576), (726, 12591), (743, 12663), (749, 12687),

Gene: Rog141_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for Rog141_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: Rona_15 Start: 10180, Stop: 12810, Start Num: 17
Candidate Starts for Rona_15:

(Start: 17 @10180 has 71 MA's), (24, 10213), (30, 10240), (47, 10333), (51, 10345), (58, 10369), (67, 10402), (79, 10474), (113, 10627), (124, 10666), (159, 10837), (175, 10915), (178, 10927), (206, 11029), (221, 11074), (239, 11134), (255, 11197), (278, 11251), (305, 11311), (350, 11323), (362, 11350), (363, 11353), (365, 11356), (371, 11377), (393, 11443), (434, 11548), (436, 11554), (461, 11632), (504, 11773), (510, 11797), (518, 11821), (543, 11908), (608, 12145), (617, 12181), (619, 12190), (629, 12223), (641, 12265), (644, 12280), (649, 12304), (679, 12412), (727, 12565), (730, 12580), (734, 12595),

Gene: RosieMae_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for RosieMae_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: SJay_17 Start: 9359, Stop: 11629, Start Num: 22
Candidate Starts for SJay_17:
(Start: 22 @9359 has 123 MA's), (41, 9476), (50, 9506), (67, 9566), (75, 9617), (79, 9641), (90, 9698), (109, 9785), (112, 9794), (133, 9878), (141, 9923), (146, 9950), (147, 9953), (168, 10043), (178, 10103), (196, 10160), (204, 10181), (234, 10277), (235, 10280), (239, 10292), (247, 10322), (278, 10403), (287, 10424), (292, 10436), (305, 10469), (326, 10532), (330, 10547), (333, 10553), (342, 10583), (359, 10622), (371, 10655), (372, 10661), (377, 10673), (383, 10688), (387, 10700), (390, 10709), (392, 10715), (412, 10763), (436, 10829), (454, 10886), (506, 11051), (522, 11105), (582, 11183), (590, 11213), (591, 11216), (600, 11264), (626, 11354), (631, 11369), (645, 11423), (650, 11438), (675, 11525), (678, 11534), (697, 11591),

Gene: Sabourin_16 Start: 10242, Stop: 12662, Start Num: 21
Candidate Starts for Sabourin_16:
(Start: 21 @10242 has 80 MA's), (36, 10329), (47, 10386), (62, 10434), (65, 10446), (75, 10506), (95, 10617), (116, 10698), (144, 10824), (147, 10839), (160, 10893), (201, 11067), (240, 11151), (248, 11172), (257, 11193), (266, 11214), (335, 11340), (351, 11361), (368, 11394), (388, 11451), (399, 11493), (404, 11508), (421, 11559), (433, 11595), (478, 11703), (484, 11724), (497, 11766), (501, 11778), (520, 11832), (539, 11880), (572, 11976), (609, 12132), (615, 12153), (619, 12165), (636, 12216), (675, 12366), (686, 12402), (719, 12483), (749, 12594),

Gene: Salgado_67 Start: 36346, Stop: 39363, Start Num: 9
Candidate Starts for Salgado_67:
(Start: 9 @36346 has 6 MA's), (14, 36367), (20, 36397), (Start: 21 @36400 has 80 MA's), (38, 36505), (60, 36589), (63, 36598), (73, 36658), (120, 36868), (122, 36874), (123, 36877), (124, 36880), (140, 36967), (151, 37018), (162, 37060), (163, 37063), (181, 37147), (186, 37165), (228, 37315), (245, 37354), (261, 37408), (264, 37417), (287, 37507), (319, 37603), (327, 37633), (333, 37651), (334, 37654), (339, 37666), (344, 37687), (347, 37699), (368, 37750), (395, 37843), (423, 37930), (436, 37966), (439, 37978), (442, 37987), (452, 38017), (457, 38032), (460, 38041), (482, 38110), (493, 38149), (525, 38275), (544, 38350), (567, 38425), (572, 38446), (581, 38479), (582, 38482), (593, 38524), (595, 38536), (598, 38557), (611, 38611), (644, 38713), (659, 38776), (692, 38887), (702, 38920), (721, 38974), (722, 38983), (745, 39076), (747, 39085), (764, 39184), (765, 39190), (767, 39220), (769, 39259), (771, 39346),

Gene: SanaSana_17 Start: 10377, Stop: 13007, Start Num: 17

Candidate Starts for SanaSana_17:
(Start: 17 @10377 has 71 MA's), (30, 10437), (47, 10530), (49, 10536), (51, 10542), (61, 10575), (79, 10671), (113, 10824), (124, 10863), (159, 11034), (175, 11112), (179, 11127), (184, 11148), (190, 11169), (200, 11208), (215, 11250), (221, 11271), (239, 11331), (244, 11349), (255, 11394), (260, 11400), (264, 11412), (305, 11508), (349, 11517), (350, 11520), (365, 11553), (371, 11574), (393, 11640), (495, 11943), (496, 11946), (504, 11970), (510, 11994), (543, 12105), (561, 12165), (588, 12249), (600, 12315), (608, 12342), (620, 12390), (623, 12399), (624, 12402), (641, 12462), (644, 12477), (665, 12561), (679, 12609), (727, 12762), (730, 12777), (734, 12792), (753, 12879), (763, 12921),

Gene: SansAfet_16 Start: 10296, Stop: 13055, Start Num: 17
Candidate Starts for SansAfet_16:
(Start: 17 @10296 has 71 MA's), (47, 10449), (49, 10455), (61, 10494), (96, 10680), (118, 10764), (124, 10782), (144, 10881), (159, 10953), (173, 11019), (175, 11031), (176, 11040), (181, 11055), (190, 11088), (193, 11097), (197, 11115), (217, 11175), (219, 11181), (221, 11190), (223, 11196), (229, 11220), (233, 11232), (255, 11313), (305, 11427), (309, 11439), (338, 11535), (350, 11574), (386, 11670), (393, 11694), (416, 11748), (429, 11784), (432, 11793), (436, 11805), (461, 11883), (495, 11997), (504, 12024), (531, 12108), (565, 12219), (568, 12228), (588, 12294), (600, 12360), (626, 12456), (641, 12501), (644, 12516), (654, 12555), (670, 12624), (675, 12642), (676, 12645), (679, 12657), (688, 12684), (722, 12798), (727, 12810), (734, 12840), (758, 12948),

Gene: Sansa_15 Start: 9455, Stop: 11863, Start Num: 23
Candidate Starts for Sansa_15:
(Start: 23 @9455 has 80 MA's), (24, 9470), (41, 9569), (67, 9659), (79, 9734), (90, 9791), (92, 9800), (104, 9863), (109, 9878), (112, 9887), (133, 9971), (141, 10016), (147, 10046), (156, 10088), (168, 10136), (178, 10196), (196, 10253), (226, 10340), (234, 10370), (235, 10373), (239, 10385), (282, 10508), (287, 10517), (290, 10523), (309, 10574), (326, 10625), (327, 10628), (339, 10661), (342, 10676), (348, 10688), (364, 10727), (383, 10781), (390, 10802), (392, 10808), (422, 10880), (423, 10886), (436, 10922), (437, 10925), (454, 10979), (475, 11042), (479, 11054), (484, 11072), (506, 11144), (513, 11174), (526, 11210), (535, 11234), (551, 11309), (554, 11318), (562, 11339), (590, 11438), (591, 11441), (600, 11489), (626, 11579), (631, 11594), (643, 11639), (649, 11666), (655, 11684), (659, 11705), (664, 11723), (667, 11732), (674, 11753), (675, 11759), (678, 11768), (697, 11825), (706, 11852), (708, 11855),

Gene: SarBear_16 Start: 10338, Stop: 13100, Start Num: 17
Candidate Starts for SarBear_16:
(Start: 17 @10338 has 71 MA's), (47, 10491), (49, 10497), (58, 10527), (61, 10536), (67, 10560), (79, 10632), (124, 10824), (144, 10923), (159, 10995), (175, 11073), (176, 11082), (178, 11085), (190, 11130), (193, 11139), (219, 11223), (221, 11232), (223, 11238), (227, 11250), (229, 11262), (233, 11274), (255, 11355), (294, 11442), (305, 11469), (308, 11478), (338, 11577), (350, 11616), (386, 11712), (393, 11736), (416, 11790), (436, 11847), (461, 11925), (495, 12039), (504, 12066), (543, 12201), (561, 12261), (588, 12339), (593, 12360), (601, 12408), (626, 12501), (641, 12546), (644, 12561), (654, 12600), (670, 12669), (675, 12687), (676, 12690), (679, 12702), (688, 12729), (727, 12855), (730, 12870), (734, 12885),

Gene: Saratos_16 Start: 9432, Stop: 11840, Start Num: 23
Candidate Starts for Saratos_16:
(Start: 23 @9432 has 80 MA's), (24, 9447), (41, 9546), (67, 9636), (79, 9711), (90, 9768), (92, 9777), (104, 9840), (109, 9855), (112, 9864), (133, 9948), (141, 9993), (147, 10023), (156, 10065), (168, 10113), (178, 10173), (196, 10230), (226, 10317), (234, 10347), (235, 10350), (239, 10362), (287, 10494), (290, 10500), (309, 10551), (326, 10602), (327, 10605), (339, 10638), (342, 10653), (348, 10665), (364, 10704), (383, 10758), (390, 10779), (392, 10785), (422, 10857), (423, 10863), (436, 10899), (437, 10902), (454, 10956), (475, 11019), (479, 11031), (484, 11049), (506, 11121), (513,

11151), (526, 11187), (535, 11211), (543, 11250), (551, 11286), (554, 11295), (562, 11316), (590, 11415), (591, 11418), (600, 11466), (626, 11556), (631, 11571), (643, 11616), (649, 11643), (655, 11661), (659, 11682), (664, 11700), (667, 11709), (674, 11730), (675, 11736), (678, 11745), (697, 11802), (706, 11829), (708, 11832),

Gene: Schaffner_16 Start: 10823, Stop: 13147, Start Num: 21
Candidate Starts for Schaffner_16:
(Start: 21 @10823 has 80 MA's), (52, 10997), (59, 11021), (71, 11069), (81, 11129), (102, 11234), (105, 11246), (128, 11327), (129, 11330), (134, 11360), (145, 11414), (150, 11444), (161, 11486), (166, 11501), (172, 11525), (176, 11555), (183, 11585), (185, 11591), (296, 11810), (383, 11939), (396, 11978), (424, 12026), (432, 12047), (442, 12080), (457, 12122), (470, 12161), (488, 12221), (517, 12314), (578, 12467), (581, 12479), (598, 12557), (599, 12560), (611, 12611), (651, 12743), (652, 12746), (660, 12779), (681, 12857), (695, 12896),

Gene: Schimmels22_18 Start: 10328, Stop: 12766, Start Num: 23
Candidate Starts for Schimmels22_18:
(Start: 23 @10328 has 80 MA's), (65, 10520), (79, 10604), (90, 10661), (93, 10679), (98, 10703), (112, 10757), (117, 10778), (133, 10841), (141, 10886), (155, 10946), (160, 10964), (168, 10997), (178, 11057), (186, 11087), (187, 11093), (198, 11132), (204, 11153), (205, 11156), (226, 11219), (234, 11249), (235, 11252), (239, 11264), (253, 11309), (254, 11315), (278, 11375), (308, 11450), (309, 11453), (333, 11525), (339, 11540), (364, 11606), (390, 11681), (392, 11687), (401, 11717), (423, 11765), (428, 11777), (437, 11804), (441, 11819), (443, 11825), (447, 11837), (454, 11858), (465, 11891), (475, 11921), (479, 11933), (506, 12023), (518, 12065), (519, 12068), (535, 12113), (537, 12122), (538, 12131), (551, 12188), (558, 12209), (582, 12287), (590, 12317), (591, 12320), (602, 12374), (603, 12380), (605, 12386), (630, 12470), (631, 12473), (633, 12485), (636, 12503), (646, 12542), (647, 12548), (682, 12677), (687, 12692), (706, 12749),

Gene: Schnapsidee_17 Start: 9761, Stop: 12028, Start Num: 22
Candidate Starts for Schnapsidee_17:
(Start: 22 @9761 has 123 MA's), (50, 9908), (68, 9971), (75, 10019), (79, 10043), (90, 10100), (92, 10109), (104, 10172), (107, 10181), (109, 10187), (112, 10196), (133, 10280), (141, 10325), (147, 10355), (168, 10445), (178, 10505), (196, 10562), (204, 10583), (234, 10679), (235, 10682), (239, 10694), (253, 10739), (278, 10805), (287, 10826), (292, 10838), (305, 10871), (333, 10955), (342, 10985), (359, 11024), (364, 11036), (383, 11090), (390, 11111), (392, 11117), (412, 11165), (421, 11186), (436, 11231), (454, 11288), (484, 11381), (506, 11453), (522, 11507), (582, 11585), (590, 11615), (591, 11618), (600, 11666), (610, 11708), (626, 11756), (631, 11771), (643, 11813), (645, 11825), (675, 11924), (678, 11933), (697, 11990),

Gene: Schubert_17 Start: 9782, Stop: 12178, Start Num: 23
Candidate Starts for Schubert_17:
(Start: 23 @9782 has 80 MA's), (41, 9896), (67, 9986), (79, 10061), (90, 10118), (109, 10202), (112, 10211), (117, 10232), (133, 10295), (141, 10340), (150, 10382), (160, 10418), (168, 10451), (178, 10511), (212, 10610), (213, 10613), (234, 10685), (235, 10688), (247, 10730), (253, 10745), (287, 10832), (305, 10877), (333, 10961), (353, 11021), (372, 11069), (383, 11096), (392, 11123), (422, 11195), (423, 11201), (432, 11225), (436, 11237), (439, 11249), (443, 11261), (454, 11294), (463, 11321), (465, 11327), (475, 11357), (479, 11369), (535, 11549), (591, 11756), (600, 11804), (642, 11954), (645, 11966), (656, 12005), (674, 12068), (675, 12074), (678, 12083), (680, 12089), (697, 12140), (708, 12170),

Gene: Scissor2024_18 Start: 9962, Stop: 12400, Start Num: 23
Candidate Starts for Scissor2024_18:
(Start: 23 @9962 has 80 MA's), (35, 10034), (65, 10154), (79, 10238), (90, 10295), (93, 10313), (98, 10337), (112, 10391), (117, 10412), (133, 10475), (141, 10520), (155, 10580), (160, 10598), (168,

10631), (178, 10691), (186, 10721), (187, 10727), (198, 10766), (204, 10787), (205, 10790), (226, 10853), (234, 10883), (235, 10886), (239, 10898), (253, 10943), (254, 10949), (278, 11009), (287, 11030), (308, 11084), (309, 11087), (333, 11159), (339, 11174), (364, 11240), (383, 11294), (390, 11315), (392, 11321), (401, 11351), (404, 11360), (423, 11399), (428, 11411), (437, 11438), (441, 11453), (443, 11459), (447, 11471), (454, 11492), (465, 11525), (475, 11555), (479, 11567), (506, 11657), (519, 11702), (527, 11726), (530, 11735), (535, 11747), (538, 11765), (555, 11834), (558, 11843), (582, 11921), (590, 11951), (602, 12008), (603, 12014), (605, 12020), (630, 12104), (631, 12107), (633, 12119), (636, 12137), (646, 12176), (647, 12182), (682, 12311), (687, 12326), (706, 12383),

Gene: Sedgewig_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for Sedgewig_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: ShaiHulud_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for ShaiHulud_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: ShakeItOph_15 Start: 8971, Stop: 11214, Start Num: 21
Candidate Starts for ShakeItOph_15:
(Start: 21 @8971 has 80 MA's), (36, 9058), (60, 9160), (73, 9226), (94, 9331), (122, 9442), (124, 9448), (143, 9544), (151, 9586), (186, 9733), (191, 9751), (279, 9868), (296, 9895), (317, 9928), (368, 9964), (389, 10012), (401, 10051), (418, 10090), (437, 10138), (439, 10147), (442, 10156), (445, 10165), (460, 10207), (472, 10243), (476, 10255), (489, 10300), (491, 10306), (498, 10330), (509, 10366), (513, 10384), (521, 10408), (524, 10417), (529, 10429), (536, 10450), (539, 10453), (546, 10483), (617, 10729), (651, 10846), (675, 10942), (677, 10948), (686, 10978),

Gene: Shamu_16 Start: 9444, Stop: 11852, Start Num: 23
Candidate Starts for Shamu_16:
(Start: 23 @9444 has 80 MA's), (24, 9459), (41, 9558), (67, 9648), (79, 9723), (90, 9780), (92, 9789), (104, 9852), (109, 9867), (112, 9876), (133, 9960), (141, 10005), (147, 10035), (156, 10077), (168, 10125), (178, 10185), (196, 10242), (226, 10329), (234, 10359), (235, 10362), (239, 10374), (287, 10506), (290, 10512), (309, 10563), (326, 10614), (327, 10617), (339, 10650), (342, 10665), (348, 10677), (364, 10716), (383, 10770), (390, 10791), (392, 10797), (422, 10869), (423, 10875), (436, 10911), (437, 10914), (454, 10968), (475, 11031), (479, 11043), (484, 11061), (506, 11133), (513, 11163), (526, 11199), (535, 11223), (543, 11262), (551, 11298), (554, 11307), (562, 11328), (590, 11427), (591, 11430), (600, 11478), (626, 11568), (631, 11583), (643, 11628), (649, 11655), (655, 11673), (659, 11694), (664, 11712), (667, 11721), (674, 11742), (675, 11748), (678, 11757), (697, 11814), (706, 11841), (708, 11844),

Gene: Sharkboy_15 Start: 10179, Stop: 12809, Start Num: 17
Candidate Starts for Sharkboy_15:
(Start: 17 @10179 has 71 MA's), (24, 10212), (30, 10239), (47, 10332), (51, 10344), (58, 10368), (67, 10401), (79, 10473), (113, 10626), (124, 10665), (159, 10836), (175, 10914), (178, 10926), (206, 11028), (221, 11073), (239, 11133), (255, 11196), (278, 11250), (305, 11310), (350, 11322), (363, 11352), (365, 11355), (371, 11376), (393, 11442), (434, 11547), (436, 11553), (461, 11631), (504, 11772), (510, 11796), (518, 11820), (543, 11907), (608, 12144), (617, 12180), (619, 12189), (629, 12222), (641, 12264), (644, 12279), (649, 12303), (679, 12411), (727, 12564), (730, 12579), (734, 12594),

Gene: Shayna_15 Start: 9869, Stop: 12856, Start Num: 2
Candidate Starts for Shayna_15:
(Start: 2 @9869 has 3 MA's), (Start: 17 @10031 has 71 MA's), (Start: 19 @10037 has 29 MA's), (24, 10064), (30, 10094), (91, 10400), (94, 10418), (110, 10484), (131, 10568), (165, 10739), (172, 10769), (218, 10943), (231, 10991), (243, 11030), (289, 11159), (312, 11228), (313, 11231), (325, 11276), (358, 11369), (382, 11435), (414, 11516), (434, 11573), (443, 11603), (499, 11783), (505, 11801), (543, 11933), (576, 12041), (579, 12053), (590, 12095), (595, 12119), (608, 12179), (616, 12212), (641, 12308), (644, 12323), (654, 12362), (679, 12464), (688, 12491), (718, 12590), (727, 12617), (742, 12686), (760, 12764),

Gene: Shee_17 Start: 9361, Stop: 11631, Start Num: 22
Candidate Starts for Shee_17:
(Start: 22 @9361 has 123 MA's), (41, 9478), (50, 9508), (67, 9568), (75, 9619), (79, 9643), (90, 9700), (109, 9787), (112, 9796), (133, 9880), (141, 9925), (146, 9952), (147, 9955), (168, 10045), (178, 10105), (196, 10162), (204, 10183), (234, 10279), (235, 10282), (247, 10324), (278, 10405), (287, 10426), (292, 10438), (305, 10471), (330, 10549), (333, 10555), (342, 10585), (359, 10624), (371, 10657), (372, 10663), (377, 10675), (383, 10690), (387, 10702), (390, 10711), (392, 10717), (412, 10765), (436, 10831), (454, 10888), (506, 11053), (522, 11107), (582, 11185), (590, 11215), (591, 11218), (600, 11266), (626, 11356), (631, 11371), (645, 11425), (650, 11440), (675, 11527), (678, 11536), (697, 11593),

Gene: Simpson_18 Start: 10730, Stop: 13045, Start Num: 21
Candidate Starts for Simpson_18:
(Start: 21 @10730 has 80 MA's), (47, 10886), (49, 10895), (71, 10976), (72, 10988), (81, 11036), (105, 11153), (128, 11234), (129, 11237), (134, 11267), (145, 11321), (150, 11351), (166, 11408), (172, 11432), (183, 11492), (296, 11717), (371, 11813), (396, 11885), (424, 11933), (442, 11987), (457, 12029), (470, 12068), (488, 12128), (587, 12407), (593, 12431), (598, 12464), (599, 12467), (611, 12518), (645, 12629), (651, 12650), (652, 12653), (660, 12686), (681, 12764), (688, 12785), (695, 12803), (718, 12863), (729, 12893), (741, 12944), (752, 12989), (762, 13034),

Gene: Sinatra_17 Start: 9585, Stop: 11993, Start Num: 23
Candidate Starts for Sinatra_17:
(Start: 23 @9585 has 80 MA's), (41, 9699), (53, 9738), (67, 9789), (68, 9792), (75, 9840), (79, 9864), (90, 9921), (98, 9963), (109, 10008), (112, 10017), (133, 10101), (141, 10146), (147, 10176), (153, 10209), (156, 10218), (168, 10266), (178, 10326), (196, 10383), (234, 10500), (235, 10503), (239, 10515), (253, 10560), (277, 10623), (278, 10626), (282, 10638), (287, 10647), (290, 10653), (309, 10704), (326, 10755), (327, 10758), (333, 10776), (339, 10791), (342, 10806), (371, 10878), (380, 10902), (392, 10938), (437, 11055), (454, 11109), (465, 11142), (475, 11172), (513, 11304), (518, 11316), (522, 11328), (537, 11373), (541, 11394), (546, 11415), (554, 11448), (558, 11460), (562, 11469), (564, 11472), (569, 11493), (590, 11568), (591, 11571), (600, 11619), (612, 11667), (626, 11709), (643, 11769), (648, 11793), (652, 11805), (675, 11889), (678, 11898), (697, 11955),

Gene: SirBeanington_16 Start: 10380, Stop: 13142, Start Num: 17
Candidate Starts for SirBeanington_16:
(Start: 17 @10380 has 71 MA's), (47, 10533), (61, 10578), (96, 10764), (124, 10866), (159, 11037), (173, 11103), (175, 11115), (176, 11124), (190, 11172), (193, 11181), (197, 11199), (219, 11265), (221, 11274), (223, 11280), (229, 11304), (233, 11316), (255, 11397), (294, 11484), (305, 11511), (308, 11520), (338, 11619), (393, 11778), (416, 11832), (436, 11889), (461, 11967), (495, 12081), (504, 12108), (517, 12153), (543, 12243), (550, 12276), (561, 12303), (588, 12381), (593, 12402), (601, 12450), (626, 12543), (641, 12588), (644, 12603), (654, 12642), (670, 12711), (675, 12729), (676, 12732), (679, 12744), (688, 12771), (727, 12897), (730, 12912), (734, 12927), (758, 13035),

Gene: SirVictor_17 Start: 9662, Stop: 12070, Start Num: 23
Candidate Starts for SirVictor_17:
(Start: 23 @9662 has 80 MA's), (32, 9713), (41, 9776), (59, 9836), (75, 9917), (79, 9941), (90, 9998), (109, 10085), (112, 10094), (133, 10178), (141, 10223), (147, 10253), (153, 10286), (168, 10343), (178, 10403), (196, 10460), (212, 10502), (219, 10523), (226, 10547), (234, 10577), (235, 10580), (253, 10637), (282, 10715), (287, 10724), (290, 10730), (309, 10781), (325, 10829), (327, 10835), (333, 10853), (334, 10856), (339, 10868), (353, 10913), (364, 10934), (383, 10988), (392, 11015), (506, 11351), (513, 11381), (527, 11420), (537, 11450), (538, 11459), (546, 11492), (562, 11546), (569, 11570), (590, 11645), (591, 11648), (600, 11696), (626, 11786), (631, 11801), (641, 11834), (675, 11966), (678, 11975), (680, 11981), (689, 12008), (697, 12032),

Gene: Skelbel_16 Start: 10704, Stop: 13028, Start Num: 21
Candidate Starts for Skelbel_16:
(Start: 21 @10704 has 80 MA's), (46, 10857), (47, 10860), (49, 10869), (71, 10950), (81, 11010), (89, 11055), (105, 11127), (128, 11208), (129, 11211), (134, 11241), (145, 11295), (150, 11325), (166, 11382), (172, 11406), (183, 11466), (185, 11472), (194, 11496), (231, 11592), (296, 11691), (371, 11787), (383, 11820), (396, 11859), (424, 11907), (442, 11961), (457, 12003), (470, 12042), (476, 12060), (488, 12102), (517, 12195), (583, 12366), (587, 12381), (611, 12492), (651, 12624), (652, 12627), (660, 12660), (681, 12738), (695, 12777), (718, 12837), (741, 12927),

Gene: Slay_16 Start: 10880, Stop: 13642, Start Num: 17
Candidate Starts for Slay_16:
(Start: 17 @10880 has 71 MA's), (47, 11033), (49, 11039), (58, 11069), (61, 11078), (67, 11102), (79, 11174), (124, 11366), (144, 11465), (159, 11537), (175, 11615), (176, 11624), (178, 11627), (190, 11672), (193, 11681), (219, 11765), (221, 11774), (223, 11780), (227, 11792), (229, 11804), (233, 11816), (255, 11897), (294, 11984), (305, 12011), (308, 12020), (338, 12119), (350, 12158), (386, 12254), (393, 12278), (416, 12332), (436, 12389), (461, 12467), (495, 12581), (504, 12608), (543, 12743), (550, 12776), (561, 12803), (588, 12881), (593, 12902), (601, 12950), (626, 13043), (641, 13088), (644, 13103), (654, 13142), (670, 13211), (675, 13229), (676, 13232), (679, 13244), (688, 13271), (727, 13397), (730, 13412), (734, 13427),

Gene: Snek_16 Start: 9838, Stop: 12117, Start Num: 21
Candidate Starts for Snek_16:
(Start: 21 @9838 has 80 MA's), (65, 10042), (73, 10093), (93, 10195), (108, 10261), (122, 10309), (124, 10315), (140, 10402), (143, 10411), (151, 10453), (163, 10498), (186, 10600), (191, 10618), (279, 10747), (285, 10762), (317, 10804), (336, 10825), (354, 10840), (406, 10951), (437, 11023), (439, 11032), (442, 11041), (446, 11053), (462, 11098), (464, 11104), (469, 11119), (476, 11140), (489, 11185), (512, 11263), (539, 11338), (543, 11356), (591, 11503), (617, 11614), (636, 11677), (643, 11698), (649, 11725), (654, 11740), (677, 11830), (686, 11860), (713, 11926), (751, 12052), (759, 12091),

Gene: Softsoap_15 Start: 10114, Stop: 12876, Start Num: 17
Candidate Starts for Softsoap_15:

(Start: 17 @10114 has 71 MA's), (47, 10267), (56, 10297), (58, 10303), (61, 10312), (96, 10498), (124, 10600), (159, 10771), (168, 10807), (174, 10840), (175, 10849), (193, 10915), (207, 10966), (219, 10999), (221, 11008), (229, 11038), (233, 11050), (255, 11131), (294, 11218), (305, 11245), (309, 11257), (338, 11353), (350, 11392), (393, 11512), (429, 11602), (432, 11611), (436, 11623), (461, 11701), (495, 11815), (504, 11842), (517, 11887), (543, 11977), (550, 12010), (561, 12037), (588, 12115), (593, 12136), (601, 12184), (626, 12277), (641, 12322), (644, 12337), (654, 12376), (670, 12445), (675, 12463), (676, 12466), (679, 12478), (688, 12505), (727, 12631), (730, 12646), (734, 12661), (758, 12769),

Gene: SoilGremlin_17 Start: 9361, Stop: 11631, Start Num: 22
Candidate Starts for SoilGremlin_17:
(Start: 22 @9361 has 123 MA's), (41, 9478), (50, 9508), (67, 9568), (75, 9619), (79, 9643), (90, 9700), (109, 9787), (112, 9796), (133, 9880), (141, 9925), (146, 9952), (147, 9955), (168, 10045), (178, 10105), (196, 10162), (204, 10183), (234, 10279), (235, 10282), (247, 10324), (278, 10405), (287, 10426), (292, 10438), (305, 10471), (330, 10549), (333, 10555), (342, 10585), (359, 10624), (371, 10657), (372, 10663), (383, 10690), (387, 10702), (390, 10711), (392, 10717), (412, 10765), (422, 10789), (423, 10795), (436, 10831), (454, 10888), (506, 11053), (522, 11107), (582, 11185), (590, 11215), (591, 11218), (600, 11266), (626, 11356), (631, 11371), (643, 11413), (645, 11425), (650, 11440), (675, 11527), (678, 11536), (697, 11593),

Gene: Solea_18 Start: 10774, Stop: 13533, Start Num: 17
Candidate Starts for Solea_18:
(Start: 17 @10774 has 71 MA's), (47, 10927), (49, 10933), (61, 10972), (96, 11158), (124, 11260), (159, 11431), (173, 11497), (175, 11509), (176, 11518), (181, 11533), (190, 11566), (193, 11575), (197, 11593), (217, 11653), (219, 11659), (221, 11668), (223, 11674), (229, 11698), (233, 11710), (239, 11728), (255, 11791), (305, 11905), (309, 11917), (338, 12013), (350, 12052), (405, 12211), (429, 12262), (432, 12271), (436, 12283), (461, 12361), (495, 12475), (504, 12502), (531, 12586), (557, 12679), (565, 12697), (568, 12706), (588, 12772), (600, 12838), (626, 12934), (641, 12979), (644, 12994), (654, 13033), (670, 13102), (675, 13120), (676, 13123), (679, 13135), (688, 13162), (722, 13276), (727, 13288), (731, 13306), (734, 13318), (758, 13426),

Gene: SolidSnake_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for SolidSnake_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: SonOfLevi_17 Start: 9647, Stop: 11917, Start Num: 22
Candidate Starts for SonOfLevi_17:
(Start: 22 @9647 has 123 MA's), (41, 9764), (50, 9794), (67, 9854), (75, 9905), (79, 9929), (90, 9986), (104, 10058), (109, 10073), (112, 10082), (133, 10166), (141, 10211), (147, 10241), (168, 10331), (178, 10391), (196, 10448), (204, 10469), (234, 10565), (235, 10568), (247, 10610), (278, 10691), (287, 10712), (292, 10724), (305, 10757), (333, 10841), (342, 10871), (359, 10910), (371, 10943), (372, 10949), (383, 10976), (387, 10988), (390, 10997), (392, 11003), (403, 11039), (412, 11051), (423, 11081), (436, 11117), (454, 11174), (484, 11267), (506, 11339), (522, 11393), (582, 11471), (590, 11501), (591, 11504), (600, 11552), (610, 11594), (626, 11642), (631, 11657), (643, 11699), (667, 11786), (675, 11813), (697, 11879),

Gene: Sooty_16 Start: 10245, Stop: 12665, Start Num: 21
Candidate Starts for Sooty_16:
(Start: 21 @10245 has 80 MA's), (36, 10332), (47, 10389), (62, 10437), (65, 10449), (75, 10509), (95, 10620), (116, 10701), (144, 10827), (147, 10842), (160, 10896), (201, 11070), (240, 11154), (248, 11175), (257, 11196), (266, 11217), (284, 11268), (335, 11343), (351, 11364), (368, 11397), (388, 11454), (399, 11496), (404, 11511), (421, 11562), (433, 11598), (478, 11706), (484, 11727), (497, 11769), (501, 11781), (520, 11835), (539, 11883), (572, 11979), (609, 12135), (615, 12156), (619, 12168), (636, 12219), (675, 12369), (686, 12405), (701, 12438), (749, 12597),

Gene: Soror1_17 Start: 9771, Stop: 12038, Start Num: 22
Candidate Starts for Soror1_17:
(Start: 22 @9771 has 123 MA's), (50, 9918), (68, 9981), (75, 10029), (79, 10053), (90, 10110), (92, 10119), (104, 10182), (107, 10191), (109, 10197), (112, 10206), (133, 10290), (141, 10335), (147, 10365), (168, 10455), (178, 10515), (196, 10572), (204, 10593), (234, 10689), (235, 10692), (239, 10704), (253, 10749), (278, 10815), (287, 10836), (292, 10848), (305, 10881), (333, 10965), (342, 10995), (359, 11034), (364, 11046), (383, 11100), (390, 11121), (392, 11127), (412, 11175), (421, 11196), (436, 11241), (454, 11298), (484, 11391), (522, 11517), (582, 11595), (590, 11625), (591, 11628), (600, 11676), (610, 11718), (626, 11766), (631, 11781), (643, 11823), (645, 11835), (675, 11934), (678, 11943), (697, 12000),

Gene: SpecialK_16 Start: 10242, Stop: 12662, Start Num: 21
Candidate Starts for SpecialK_16:
(Start: 21 @10242 has 80 MA's), (36, 10329), (62, 10434), (65, 10446), (75, 10506), (95, 10617), (116, 10698), (144, 10824), (147, 10839), (160, 10893), (201, 11067), (240, 11151), (248, 11172), (266, 11214), (335, 11340), (351, 11361), (368, 11394), (388, 11451), (399, 11493), (404, 11508), (421, 11559), (433, 11595), (435, 11601), (478, 11703), (484, 11724), (497, 11766), (518, 11826), (520, 11832), (539, 11880), (572, 11976), (615, 12153), (619, 12165), (636, 12216), (658, 12297), (675, 12366), (686, 12402), (719, 12483), (726, 12498), (743, 12570), (749, 12594),

Gene: Sputnik_12 Start: 6894, Stop: 8744, Start Num: 28
Candidate Starts for Sputnik_12:
(Start: 28 @6894 has 4 MA's), (31, 6912), (33, 6918), (49, 6996), (66, 7050), (69, 7065), (71, 7077), (79, 7131), (93, 7203), (95, 7218), (100, 7239), (116, 7299), (125, 7326), (137, 7389), (160, 7494), (172, 7545), (175, 7566), (186, 7614), (188, 7623), (203, 7665), (210, 7680), (214, 7689), (259, 7743), (268, 7761), (286, 7785), (293, 7791), (317, 7812), (321, 7824), (351, 7836), (363, 7848), (376, 7878), (382, 7890), (407, 7932), (463, 8043), (475, 8067), (480, 8079), (488, 8097), (506, 8124), (546, 8154), (571, 8214), (593, 8298), (595, 8310), (602, 8346), (609, 8376), (634, 8448), (644, 8475), (646, 8487), (648, 8496), (652, 8508), (655, 8517), (673, 8589), (691, 8640), (693, 8646), (724, 8724),

Gene: Squircle_15 Start: 10031, Stop: 13000, Start Num: 1
Candidate Starts for Squircle_15:
(Start: 1 @10031 has 3 MA's), (4, 10106), (5, 10121), (24, 10229), (45, 10355), (48, 10367), (58, 10400), (88, 10553), (91, 10565), (94, 10583), (97, 10601), (103, 10628), (106, 10637), (110, 10649), (130, 10730), (132, 10742), (134, 10757), (144, 10805), (148, 10829), (158, 10874), (165, 10904), (172, 10934), (174, 10946), (192, 11024), (197, 11045), (209, 11084), (218, 11108), (241, 11189), (243, 11195), (263, 11258), (289, 11324), (296, 11342), (303, 11360), (310, 11381), (361, 11540), (394, 11636), (400, 11657), (469, 11846), (495, 11936), (517, 12008), (543, 12098), (549, 12122), (553, 12140), (561, 12158), (581, 12215), (588, 12239), (590, 12248), (621, 12383), (624, 12392), (641, 12452), (644, 12467), (645, 12476), (654, 12506), (663, 12545), (679, 12608), (688, 12635), (718, 12734), (727, 12761), (730, 12776), (741, 12827), (742, 12830),

Gene: Stanktossa_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for Stanktossa_17:

(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: StingRay_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for StingRay_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (239, 10587), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (326, 10827), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: StirfryIV_17 Start: 9654, Stop: 11924, Start Num: 22
Candidate Starts for StirfryIV_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (650, 11733), (675, 11820), (678, 11829), (697, 11886),

Gene: Stoor_16 Start: 10374, Stop: 13004, Start Num: 17
Candidate Starts for Stoor_16:
(Start: 17 @10374 has 71 MA's), (30, 10434), (47, 10527), (49, 10533), (51, 10539), (61, 10572), (79, 10668), (113, 10821), (124, 10860), (159, 11031), (175, 11109), (179, 11124), (184, 11145), (190, 11166), (200, 11205), (215, 11247), (221, 11268), (239, 11328), (244, 11346), (255, 11391), (260, 11397), (264, 11409), (305, 11505), (349, 11514), (350, 11517), (365, 11550), (371, 11571), (393, 11637), (495, 11940), (496, 11943), (504, 11967), (510, 11991), (543, 12102), (561, 12162), (588, 12246), (600, 12312), (608, 12339), (620, 12387), (623, 12396), (624, 12399), (641, 12459), (644, 12474), (665, 12558), (679, 12606), (727, 12759), (730, 12774), (734, 12789), (753, 12876), (763, 12918),

Gene: Stormbreaker8_17 Start: 9762, Stop: 12029, Start Num: 22
Candidate Starts for Stormbreaker8_17:
(Start: 22 @9762 has 123 MA's), (50, 9909), (68, 9972), (75, 10020), (79, 10044), (90, 10101), (92, 10110), (104, 10173), (107, 10182), (109, 10188), (112, 10197), (133, 10281), (141, 10326), (147, 10356), (168, 10446), (178, 10506), (196, 10563), (204, 10584), (234, 10680), (235, 10683), (239, 10695), (253, 10740), (278, 10806), (287, 10827), (292, 10839), (305, 10872), (326, 10935), (333, 10956), (342, 10986), (359, 11025), (364, 11037), (383, 11091), (390, 11112), (392, 11118), (412, 11166), (421, 11187), (436, 11232), (454, 11289), (484, 11382), (522, 11508), (582, 11586), (590, 11616), (591, 11619), (600, 11667), (610, 11709), (626, 11757), (631, 11772), (643, 11814), (645, 11826), (675, 11925), (678, 11934), (697, 11991),

Gene: Strathdee_17 Start: 9363, Stop: 11633, Start Num: 22
Candidate Starts for Strathdee_17:
(Start: 22 @9363 has 123 MA's), (41, 9480), (50, 9510), (75, 9621), (79, 9645), (90, 9702), (104, 9774), (109, 9789), (112, 9798), (133, 9882), (141, 9927), (147, 9957), (168, 10047), (178, 10107), (196, 10164), (204, 10185), (234, 10281), (235, 10284), (247, 10326), (278, 10407), (287, 10428), (292, 10440), (305, 10473), (333, 10557), (342, 10587), (359, 10626), (371, 10659), (372, 10665), (387, 10704), (390, 10713), (392, 10719), (403, 10755), (412, 10767), (423, 10797), (436, 10833), (454, 10890), (465, 10923), (484, 10983), (506, 11055), (582, 11187), (590, 11217), (591, 11220), (600, 11268), (610, 11310), (626, 11358), (631, 11373), (643, 11415), (650, 11442), (675, 11529), (678, 11538), (697, 11595),

Gene: Stromboli_16 Start: 10505, Stop: 13135, Start Num: 17
Candidate Starts for Stromboli_16:
(Start: 17 @10505 has 71 MA's), (47, 10658), (49, 10664), (51, 10670), (61, 10703), (79, 10799), (113, 10952), (124, 10991), (135, 11051), (141, 11078), (159, 11162), (175, 11240), (179, 11255), (184, 11276), (186, 11282), (200, 11336), (215, 11378), (221, 11399), (239, 11459), (244, 11477), (255, 11522), (260, 11528), (264, 11540), (305, 11636), (349, 11645), (350, 11648), (365, 11681), (371, 11702), (393, 11768), (495, 12071), (496, 12074), (504, 12098), (510, 12122), (543, 12233), (561, 12293), (588, 12377), (600, 12443), (603, 12455), (608, 12470), (620, 12518), (623, 12527), (624, 12530), (641, 12590), (644, 12605), (665, 12689), (679, 12737), (727, 12890), (730, 12905), (734, 12920), (753, 13007), (763, 13049),

Gene: Studio_18 Start: 9327, Stop: 11615, Start Num: 16
Candidate Starts for Studio_18:
(Start: 16 @9327 has 3 MA's), (Start: 18 @9330 has 8 MA's), (73, 9588), (122, 9804), (123, 9807), (151, 9948), (186, 10095), (197, 10137), (208, 10158), (297, 10305), (302, 10314), (336, 10368), (355, 10371), (356, 10374), (418, 10509), (439, 10566), (456, 10614), (480, 10686), (486, 10707), (492, 10728), (494, 10737), (496, 10743), (502, 10761), (503, 10764), (506, 10773), (510, 10791), (513, 10803), (520, 10824), (521, 10827), (522, 10830), (539, 10872), (545, 10899), (546, 10902), (587, 11022), (594, 11055), (597, 11076), (598, 11079), (617, 11148), (618, 11154), (651, 11265), (652, 11268), (675, 11361), (677, 11367), (692, 11409), (694, 11418), (705, 11442), (707, 11451), (715, 11469), (756, 11610),

Gene: Stuu_16 Start: 10335, Stop: 12755, Start Num: 21
Candidate Starts for Stuu_16:
(Start: 21 @10335 has 80 MA's), (36, 10422), (62, 10527), (65, 10539), (75, 10599), (95, 10710), (116, 10791), (144, 10917), (147, 10932), (160, 10986), (201, 11160), (240, 11244), (248, 11265), (266, 11307), (335, 11433), (351, 11454), (368, 11487), (388, 11544), (399, 11586), (404, 11601), (421, 11652), (433, 11688), (435, 11694), (478, 11796), (484, 11817), (497, 11859), (518, 11919), (520, 11925), (539, 11973), (572, 12069), (609, 12225), (615, 12246), (619, 12258), (636, 12309), (675, 12459), (686, 12495), (743, 12663), (749, 12687),

Gene: Subaru_16 Start: 10704, Stop: 13028, Start Num: 21
Candidate Starts for Subaru_16:
(Start: 21 @10704 has 80 MA's), (46, 10857), (47, 10860), (49, 10869), (71, 10950), (81, 11010), (89, 11055), (105, 11127), (128, 11208), (129, 11211), (134, 11241), (145, 11295), (150, 11325), (166, 11382), (172, 11406), (183, 11466), (185, 11472), (194, 11496), (231, 11592), (296, 11691), (371, 11787), (396, 11859), (424, 11907), (442, 11961), (457, 12003), (470, 12042), (476, 12060), (488, 12102), (517, 12195), (583, 12366), (587, 12381), (611, 12492), (651, 12624), (652, 12627), (660, 12660), (681, 12738), (695, 12777), (718, 12837), (741, 12927),

Gene: Sue2_16 Start: 10752, Stop: 13142, Start Num: 21
Candidate Starts for Sue2_16:

(Start: 21 @10752 has 80 MA's), (27, 10785), (49, 10905), (60, 10941), (73, 11007), (93, 11109), (122, 11223), (124, 11229), (140, 11316), (143, 11325), (151, 11367), (186, 11514), (331, 11790), (378, 11874), (419, 11985), (443, 12063), (445, 12069), (448, 12078), (458, 12105), (489, 12204), (518, 12303), (522, 12315), (533, 12342), (539, 12357), (541, 12366), (543, 12375), (554, 12420), (587, 12507), (596, 12552), (631, 12675), (646, 12732), (651, 12750), (652, 12753), (664, 12801), (681, 12864), (694, 12903), (751, 13077),

Gene: SunnyD_15 Start: 9869, Stop: 12856, Start Num: 2
Candidate Starts for SunnyD_15:
(Start: 2 @9869 has 3 MA's), (Start: 17 @10031 has 71 MA's), (Start: 19 @10037 has 29 MA's), (24, 10064), (30, 10094), (91, 10400), (94, 10418), (110, 10484), (131, 10568), (165, 10739), (172, 10769), (218, 10943), (231, 10991), (243, 11030), (289, 11159), (312, 11228), (313, 11231), (325, 11276), (358, 11369), (382, 11435), (414, 11516), (434, 11573), (443, 11603), (499, 11783), (505, 11801), (543, 11933), (576, 12041), (579, 12053), (590, 12095), (595, 12119), (608, 12179), (616, 12212), (641, 12308), (644, 12323), (654, 12362), (679, 12464), (688, 12491), (718, 12590), (727, 12617), (742, 12686), (760, 12764),

Gene: Superfresh_17 Start: 9353, Stop: 11623, Start Num: 22
Candidate Starts for Superfresh_17:
(Start: 22 @9353 has 123 MA's), (41, 9470), (50, 9500), (75, 9611), (79, 9635), (90, 9692), (104, 9764), (109, 9779), (112, 9788), (133, 9872), (141, 9917), (147, 9947), (168, 10037), (178, 10097), (196, 10154), (204, 10175), (234, 10271), (235, 10274), (247, 10316), (278, 10397), (287, 10418), (292, 10430), (305, 10463), (333, 10547), (342, 10577), (359, 10616), (371, 10649), (372, 10655), (383, 10682), (387, 10694), (390, 10703), (392, 10709), (403, 10745), (412, 10757), (423, 10787), (436, 10823), (454, 10880), (484, 10973), (506, 11045), (522, 11099), (582, 11177), (590, 11207), (591, 11210), (600, 11258), (610, 11300), (626, 11348), (631, 11363), (643, 11405), (675, 11519), (678, 11528), (697, 11585),

Gene: Suppi_18 Start: 12647, Stop: 15202, Start Num: 19
Candidate Starts for Suppi_18:
(15, 12626), (Start: 19 @12647 has 29 MA's), (29, 12695), (42, 12776), (47, 12800), (68, 12872), (75, 12920), (76, 12935), (78, 12941), (114, 13103), (126, 13148), (136, 13199), (137, 13202), (142, 13232), (173, 13370), (202, 13493), (222, 13553), (230, 13571), (235, 13586), (252, 13637), (351, 13868), (379, 13937), (387, 13961), (391, 13979), (393, 13985), (409, 14039), (413, 14051), (420, 14072), (428, 14096), (457, 14183), (465, 14207), (467, 14213), (468, 14216), (472, 14228), (479, 14249), (480, 14252), (481, 14258), (483, 14264), (486, 14273), (488, 14282), (489, 14285), (491, 14291), (498, 14315), (505, 14336), (508, 14345), (512, 14363), (518, 14384), (521, 14393), (524, 14402), (536, 14435), (539, 14438), (541, 14447), (542, 14450), (554, 14501), (588, 14591), (611, 14699), (615, 14711), (622, 14732), (623, 14735), (651, 14831), (652, 14834), (665, 14888), (675, 14927), (695, 14984), (712, 15026), (730, 15074), (739, 15116), (746, 15146),

Gene: Swervy_16 Start: 10338, Stop: 13100, Start Num: 17
Candidate Starts for Swervy_16:
(Start: 17 @10338 has 71 MA's), (47, 10491), (49, 10497), (58, 10527), (61, 10536), (67, 10560), (79, 10632), (124, 10824), (144, 10923), (159, 10995), (175, 11073), (176, 11082), (178, 11085), (190, 11130), (193, 11139), (219, 11223), (221, 11232), (223, 11238), (227, 11250), (229, 11262), (233, 11274), (255, 11355), (294, 11442), (305, 11469), (308, 11478), (338, 11577), (350, 11616), (386, 11712), (393, 11736), (416, 11790), (436, 11847), (461, 11925), (495, 12039), (504, 12066), (543, 12201), (561, 12261), (588, 12339), (593, 12360), (601, 12408), (626, 12501), (641, 12546), (644, 12561), (654, 12600), (670, 12669), (675, 12687), (676, 12690), (679, 12702), (688, 12729), (727, 12855), (730, 12870), (734, 12885),

Gene: Symere_17 Start: 9654, Stop: 11921, Start Num: 22

Candidate Starts for Symere_17:
(Start: 22 @9654 has 123 MA's), (41, 9771), (50, 9801), (67, 9861), (75, 9912), (79, 9936), (90, 9993), (109, 10080), (112, 10089), (133, 10173), (141, 10218), (146, 10245), (147, 10248), (168, 10338), (178, 10398), (196, 10455), (204, 10476), (234, 10572), (235, 10575), (247, 10617), (278, 10698), (287, 10719), (292, 10731), (305, 10764), (330, 10842), (333, 10848), (342, 10878), (359, 10917), (371, 10950), (372, 10956), (377, 10968), (383, 10983), (387, 10995), (390, 11004), (392, 11010), (412, 11058), (422, 11082), (423, 11088), (436, 11124), (454, 11181), (506, 11346), (522, 11400), (582, 11478), (590, 11508), (591, 11511), (600, 11559), (610, 11601), (626, 11649), (631, 11664), (643, 11706), (645, 11718), (675, 11817), (678, 11826), (697, 11883),

Gene: TMaxx_17 Start: 9424, Stop: 11712, Start Num: 18
Candidate Starts for TMaxx_17:
(Start: 18 @9424 has 8 MA's), (93, 9784), (94, 9787), (122, 9898), (123, 9901), (124, 9904), (151, 10042), (186, 10189), (195, 10219), (219, 10270), (281, 10360), (320, 10441), (385, 10516), (398, 10552), (401, 10564), (402, 10567), (417, 10600), (439, 10660), (461, 10723), (463, 10729), (464, 10732), (471, 10753), (473, 10759), (478, 10774), (486, 10801), (489, 10813), (492, 10822), (497, 10840), (502, 10855), (503, 10858), (506, 10867), (508, 10873), (510, 10885), (518, 10912), (524, 10930), (533, 10951), (539, 10966), (609, 11218), (615, 11239), (617, 11242), (651, 11359), (652, 11362), (675, 11455), (694, 11512), (705, 11536), (707, 11545), (715, 11563), (735, 11614), (737, 11629), (744, 11653),

Gene: Tallboi_16 Start: 10731, Stop: 13055, Start Num: 21
Candidate Starts for Tallboi_16:
(Start: 21 @10731 has 80 MA's), (44, 10878), (47, 10887), (71, 10977), (81, 11037), (89, 11082), (105, 11154), (124, 11214), (129, 11238), (134, 11268), (145, 11322), (150, 11352), (166, 11409), (172, 11433), (183, 11493), (185, 11499), (296, 11718), (396, 11886), (424, 11934), (442, 11988), (457, 12030), (470, 12069), (488, 12129), (517, 12222), (585, 12399), (587, 12408), (611, 12519), (651, 12651), (652, 12654), (660, 12687), (681, 12765), (695, 12804), (718, 12864), (729, 12894), (741, 12954),

Gene: TatarkaPM_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for TatarkaPM_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178, 10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Tbone_16 Start: 10734, Stop: 13049, Start Num: 21
Candidate Starts for Tbone_16:
(Start: 21 @10734 has 80 MA's), (47, 10890), (49, 10899), (71, 10980), (72, 10992), (81, 11040), (82, 11043), (89, 11085), (105, 11157), (128, 11238), (129, 11241), (134, 11271), (145, 11325), (150, 11355), (166, 11412), (172, 11436), (183, 11496), (296, 11721), (371, 11817), (393, 11880), (396, 11889), (424, 11937), (432, 11958), (442, 11991), (457, 12033), (470, 12072), (488, 12132), (535, 12273), (585, 12402), (587, 12411), (593, 12435), (598, 12468), (608, 12504), (611, 12522), (645, 12633), (651, 12654), (652, 12657), (660, 12690), (681, 12768), (695, 12807), (718, 12867), (729, 12897), (741, 12948), (752, 12993), (762, 13038),

Gene: Teagan_17 Start: 9358, Stop: 11628, Start Num: 22
Candidate Starts for Teagan_17:

(Start: 22 @9358 has 123 MA's), (41, 9475), (50, 9505), (67, 9565), (75, 9616), (79, 9640), (90, 9697), (109, 9784), (112, 9793), (133, 9877), (141, 9922), (146, 9949), (147, 9952), (168, 10042), (178, 10102), (196, 10159), (204, 10180), (234, 10276), (235, 10279), (239, 10291), (247, 10321), (278, 10402), (287, 10423), (292, 10435), (305, 10468), (326, 10531), (330, 10546), (333, 10552), (342, 10582), (359, 10621), (371, 10654), (372, 10660), (377, 10672), (383, 10687), (387, 10699), (390, 10708), (392, 10714), (412, 10762), (436, 10828), (454, 10885), (506, 11050), (522, 11104), (582, 11182), (590, 11212), (591, 11215), (600, 11263), (626, 11353), (631, 11368), (645, 11422), (650, 11437), (675, 11524), (678, 11533), (697, 11590),

Gene: Teagster_15 Start: 9869, Stop: 12856, Start Num: 2
Candidate Starts for Teagster_15:
(Start: 2 @9869 has 3 MA's), (Start: 17 @10031 has 71 MA's), (Start: 19 @10037 has 29 MA's), (24, 10064), (30, 10094), (36, 10133), (64, 10256), (74, 10316), (91, 10400), (94, 10418), (110, 10484), (134, 10592), (172, 10769), (218, 10943), (231, 10991), (242, 11027), (289, 11159), (296, 11177), (312, 11228), (313, 11231), (358, 11369), (382, 11435), (414, 11516), (434, 11573), (499, 11783), (505, 11801), (543, 11933), (576, 12041), (579, 12053), (590, 12095), (595, 12119), (608, 12179), (616, 12212), (641, 12308), (644, 12323), (652, 12356), (654, 12362), (679, 12464), (684, 12482), (688, 12491), (718, 12590), (727, 12617), (760, 12764),

Gene: TeddyBear_17 Start: 9667, Stop: 11937, Start Num: 22
Candidate Starts for TeddyBear_17:
(Start: 22 @9667 has 123 MA's), (41, 9784), (50, 9814), (67, 9874), (75, 9925), (79, 9949), (90, 10006), (109, 10093), (112, 10102), (133, 10186), (141, 10231), (146, 10258), (147, 10261), (168, 10351), (178, 10411), (196, 10468), (204, 10489), (234, 10585), (235, 10588), (247, 10630), (278, 10711), (287, 10732), (292, 10744), (305, 10777), (330, 10855), (333, 10861), (342, 10891), (359, 10930), (371, 10963), (372, 10969), (377, 10981), (383, 10996), (387, 11008), (390, 11017), (392, 11023), (412, 11071), (422, 11095), (423, 11101), (436, 11137), (454, 11194), (506, 11359), (522, 11413), (582, 11491), (590, 11521), (591, 11524), (600, 11572), (626, 11662), (631, 11677), (643, 11719), (645, 11731), (650, 11746), (675, 11833), (678, 11842), (697, 11899),

Gene: Tenda_17 Start: 9665, Stop: 11935, Start Num: 22
Candidate Starts for Tenda_17:
(Start: 22 @9665 has 123 MA's), (41, 9782), (50, 9812), (67, 9872), (75, 9923), (79, 9947), (90, 10004), (109, 10091), (112, 10100), (133, 10184), (141, 10229), (146, 10256), (147, 10259), (168, 10349), (178, 10409), (196, 10466), (204, 10487), (234, 10583), (235, 10586), (247, 10628), (278, 10709), (287, 10730), (292, 10742), (305, 10775), (330, 10853), (333, 10859), (342, 10889), (359, 10928), (371, 10961), (372, 10967), (377, 10979), (383, 10994), (387, 11006), (390, 11015), (392, 11021), (412, 11069), (422, 11093), (423, 11099), (436, 11135), (454, 11192), (506, 11357), (522, 11411), (582, 11489), (590, 11519), (591, 11522), (600, 11570), (626, 11660), (631, 11675), (643, 11717), (645, 11729), (650, 11744), (675, 11831), (678, 11840), (697, 11897),

Gene: TforTroy_16 Start: 10854, Stop: 13178, Start Num: 21
Candidate Starts for TforTroy_16:
(Start: 21 @10854 has 80 MA's), (47, 11010), (49, 11019), (50, 11022), (52, 11028), (71, 11100), (81, 11160), (105, 11277), (128, 11358), (129, 11361), (134, 11391), (145, 11445), (150, 11475), (166, 11532), (172, 11556), (183, 11616), (185, 11622), (232, 11745), (296, 11841), (396, 12009), (424, 12057), (442, 12111), (457, 12153), (470, 12192), (488, 12252), (517, 12345), (573, 12480), (582, 12513), (585, 12522), (611, 12642), (651, 12774), (652, 12777), (681, 12888), (695, 12927),

Gene: Theresita_17 Start: 9173, Stop: 11581, Start Num: 23
Candidate Starts for Theresita_17:
(Start: 23 @9173 has 80 MA's), (41, 9287), (66, 9371), (67, 9377), (75, 9428), (79, 9452), (90, 9509), (107, 9590), (109, 9596), (112, 9605), (133, 9689), (141, 9734), (146, 9761), (147, 9764), (153, 9797),

(156, 9806), (164, 9842), (168, 9854), (169, 9860), (178, 9914), (204, 9992), (219, 10034), (234, 10088), (235, 10091), (246, 10115), (253, 10148), (290, 10241), (305, 10280), (328, 10352), (329, 10355), (342, 10394), (348, 10406), (352, 10421), (375, 10481), (392, 10526), (493, 10820), (535, 10952), (540, 10979), (546, 11003), (554, 11036), (558, 11048), (562, 11057), (590, 11156), (591, 11159), (600, 11207), (626, 11297), (631, 11312), (641, 11345), (649, 11384), (655, 11402), (662, 11435), (678, 11486), (697, 11543), (706, 11570),

Gene: Thompsone_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Thompsone_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (67, 9569), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: Thorongil_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Thorongil_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (383, 10691), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: ThursdayNight_15 Start: 9237, Stop: 11804, Start Num: 21
Candidate Starts for ThursdayNight_15:
(Start: 21 @9237 has 80 MA's), (36, 9324), (54, 9405), (55, 9411), (60, 9426), (73, 9492), (93, 9594), (111, 9669), (122, 9708), (124, 9714), (140, 9801), (151, 9852), (163, 9897), (186, 9999), (191, 10017), (196, 10038), (206, 10074), (306, 10332), (390, 10578), (411, 10638), (435, 10695), (437, 10701), (439, 10710), (462, 10776), (464, 10782), (469, 10797), (472, 10806), (489, 10863), (498, 10893), (513, 10947), (518, 10962), (524, 10980), (529, 10992), (539, 11016), (543, 11034), (562, 11100), (651, 11409), (652, 11412), (667, 11478), (675, 11505), (694, 11562), (707, 11595), (728, 11646), (754, 11760),

Gene: Tian_16 Start: 10746, Stop: 13070, Start Num: 21
Candidate Starts for Tian_16:
(Start: 21 @10746 has 80 MA's), (47, 10902), (49, 10911), (71, 10992), (81, 11052), (89, 11097), (105, 11169), (124, 11229), (128, 11250), (129, 11253), (134, 11283), (145, 11337), (150, 11367), (166, 11424), (172, 11448), (183, 11508), (185, 11514), (231, 11634), (296, 11733), (371, 11829), (396, 11901), (424, 11949), (432, 11970), (442, 12003), (457, 12045), (470, 12084), (488, 12144), (493, 12159), (512, 12225), (558, 12348), (562, 12357), (585, 12414), (587, 12423), (598, 12480), (599, 12483), (611, 12534), (651, 12666), (652, 12669), (681, 12780), (695, 12819), (705, 12843), (741, 12969),

Gene: TinSulphur_17 Start: 9364, Stop: 11634, Start Num: 22
Candidate Starts for TinSulphur_17:
(Start: 22 @9364 has 123 MA's), (41, 9481), (50, 9511), (67, 9571), (75, 9622), (79, 9646), (90, 9703), (109, 9790), (112, 9799), (133, 9883), (141, 9928), (146, 9955), (147, 9958), (168, 10048), (178,

10108), (196, 10165), (204, 10186), (234, 10282), (235, 10285), (247, 10327), (278, 10408), (287, 10429), (292, 10441), (305, 10474), (330, 10552), (333, 10558), (342, 10588), (359, 10627), (371, 10660), (372, 10666), (377, 10678), (383, 10693), (387, 10705), (390, 10714), (392, 10720), (412, 10768), (436, 10834), (454, 10891), (506, 11056), (522, 11110), (582, 11188), (590, 11218), (591, 11221), (600, 11269), (626, 11359), (631, 11374), (645, 11428), (650, 11443), (675, 11530), (678, 11539), (697, 11596),

Gene: Tinyman4_18 Start: 9965, Stop: 12403, Start Num: 23
Candidate Starts for Tinyman4_18:
(Start: 23 @9965 has 80 MA's), (35, 10037), (65, 10157), (79, 10241), (90, 10298), (93, 10316), (112, 10394), (117, 10415), (133, 10478), (141, 10523), (155, 10583), (160, 10601), (168, 10634), (178, 10694), (186, 10724), (187, 10730), (198, 10769), (204, 10790), (226, 10856), (234, 10886), (235, 10889), (239, 10901), (253, 10946), (254, 10952), (278, 11012), (308, 11087), (309, 11090), (333, 11162), (339, 11177), (364, 11243), (383, 11297), (392, 11324), (401, 11354), (404, 11363), (422, 11396), (423, 11402), (428, 11414), (437, 11441), (441, 11456), (443, 11462), (447, 11474), (454, 11495), (465, 11528), (475, 11558), (479, 11570), (506, 11660), (519, 11705), (527, 11729), (530, 11738), (535, 11750), (538, 11768), (551, 11825), (555, 11837), (582, 11924), (590, 11954), (591, 11957), (603, 12017), (605, 12023), (630, 12107), (631, 12110), (633, 12122), (636, 12140), (682, 12314), (687, 12329), (706, 12386),

Gene: TripleC_20 Start: 12930, Stop: 15218, Start Num: 18
Candidate Starts for TripleC_20:
(Start: 18 @12930 has 8 MA's), (38, 13035), (93, 13290), (94, 13293), (108, 13356), (122, 13404), (123, 13407), (124, 13410), (151, 13548), (186, 13695), (195, 13725), (219, 13776), (281, 13866), (320, 13947), (381, 14007), (398, 14058), (401, 14070), (402, 14073), (439, 14166), (445, 14184), (446, 14187), (461, 14229), (463, 14235), (464, 14238), (472, 14262), (491, 14325), (492, 14328), (497, 14346), (506, 14373), (512, 14397), (515, 14412), (518, 14418), (522, 14430), (524, 14436), (533, 14457), (534, 14460), (539, 14472), (543, 14490), (585, 14613), (590, 14634), (609, 14724), (615, 14745), (617, 14748), (627, 14778), (645, 14844), (651, 14865), (652, 14868), (660, 14901), (675, 14961), (694, 15018), (705, 15042), (707, 15051), (737, 15135), (744, 15159),

Gene: Tuck_17 Start: 11773, Stop: 14250, Start Num: 21
Candidate Starts for Tuck_17:
(Start: 21 @11773 has 80 MA's), (47, 11929), (49, 11938), (71, 12019), (81, 12079), (89, 12124), (105, 12196), (129, 12280), (134, 12310), (145, 12364), (150, 12394), (166, 12451), (172, 12475), (183, 12535), (185, 12541), (194, 12565), (217, 12643), (229, 12676), (278, 12811), (296, 12853), (337, 12952), (372, 13024), (387, 13063), (396, 13090), (424, 13138), (436, 13171), (457, 13234), (476, 13291), (488, 13333), (493, 13348), (517, 13426), (564, 13549), (583, 13597), (587, 13612), (608, 13705), (611, 13723), (615, 13735), (651, 13855), (652, 13858), (681, 13969), (695, 14008), (729, 14098),

Gene: TukTuk_16 Start: 10396, Stop: 13158, Start Num: 17
Candidate Starts for TukTuk_16:
(Start: 17 @10396 has 71 MA's), (47, 10549), (49, 10555), (58, 10585), (61, 10594), (67, 10618), (79, 10690), (124, 10882), (144, 10981), (159, 11053), (175, 11131), (176, 11140), (178, 11143), (190, 11188), (193, 11197), (219, 11281), (221, 11290), (223, 11296), (227, 11308), (229, 11320), (233, 11332), (255, 11413), (294, 11500), (305, 11527), (308, 11536), (338, 11635), (350, 11674), (386, 11770), (393, 11794), (416, 11848), (436, 11905), (461, 11983), (495, 12097), (504, 12124), (543, 12259), (561, 12319), (588, 12397), (626, 12559), (641, 12604), (644, 12619), (654, 12658), (670, 12727), (675, 12745), (676, 12748), (679, 12760), (688, 12787), (727, 12913), (734, 12943),

Gene: Turab_16 Start: 10733, Stop: 13057, Start Num: 21
Candidate Starts for Turab_16:

(Start: 21 @10733 has 80 MA's), (47, 10889), (49, 10898), (54, 10913), (71, 10979), (81, 11039), (89, 11084), (105, 11156), (128, 11237), (129, 11240), (134, 11270), (145, 11324), (150, 11354), (166, 11411), (172, 11435), (183, 11495), (185, 11501), (296, 11720), (371, 11816), (383, 11849), (424, 11936), (442, 11990), (457, 12032), (470, 12071), (488, 12131), (535, 12272), (585, 12401), (587, 12410), (611, 12521), (651, 12653), (652, 12656), (660, 12689), (681, 12767), (695, 12806), (718, 12866), (741, 12956),

Gene: Tutumahutu_16 Start: 10781, Stop: 13096, Start Num: 21
Candidate Starts for Tutumahutu_16:
(Start: 21 @10781 has 80 MA's), (47, 10937), (49, 10946), (71, 11027), (72, 11039), (81, 11087), (82, 11090), (89, 11132), (105, 11204), (128, 11285), (129, 11288), (134, 11318), (145, 11372), (150, 11402), (166, 11459), (172, 11483), (183, 11543), (296, 11768), (371, 11864), (393, 11927), (396, 11936), (424, 11984), (428, 11993), (432, 12005), (442, 12038), (457, 12080), (470, 12119), (488, 12179), (535, 12320), (564, 12395), (573, 12407), (585, 12449), (587, 12458), (593, 12482), (608, 12551), (611, 12569), (615, 12581), (645, 12680), (651, 12701), (652, 12704), (660, 12737), (681, 12815), (695, 12854), (718, 12914), (729, 12944), (741, 12995), (752, 13040), (762, 13085),

Gene: Tweety19_16 Start: 9837, Stop: 12116, Start Num: 21
Candidate Starts for Tweety19_16:
(Start: 21 @9837 has 80 MA's), (65, 10041), (73, 10092), (93, 10194), (108, 10260), (122, 10308), (124, 10314), (140, 10401), (143, 10410), (151, 10452), (163, 10497), (186, 10599), (191, 10617), (279, 10746), (285, 10761), (317, 10803), (336, 10824), (354, 10839), (406, 10950), (437, 11022), (439, 11031), (442, 11040), (446, 11052), (462, 11097), (464, 11103), (469, 11118), (476, 11139), (489, 11184), (512, 11262), (539, 11337), (543, 11355), (591, 11502), (617, 11613), (636, 11676), (643, 11697), (649, 11724), (654, 11739), (677, 11829), (686, 11859), (713, 11925), (751, 12051), (759, 12090),

Gene: TwoBits_18 Start: 9676, Stop: 12117, Start Num: 23
Candidate Starts for TwoBits_18:
(Start: 23 @9676 has 80 MA's), (29, 9709), (72, 9910), (79, 9952), (90, 10009), (93, 10027), (98, 10051), (107, 10090), (112, 10105), (117, 10126), (123, 10144), (133, 10189), (141, 10234), (150, 10276), (155, 10294), (168, 10345), (186, 10435), (187, 10441), (198, 10480), (216, 10534), (226, 10567), (234, 10597), (235, 10600), (239, 10612), (253, 10657), (254, 10663), (287, 10744), (300, 10777), (308, 10798), (322, 10837), (333, 10873), (338, 10885), (343, 10906), (353, 10933), (364, 10954), (392, 11035), (401, 11065), (423, 11113), (428, 11125), (437, 11152), (441, 11167), (454, 11206), (465, 11239), (475, 11269), (479, 11281), (513, 11401), (518, 11413), (535, 11461), (538, 11479), (555, 11548), (558, 11557), (582, 11635), (590, 11665), (591, 11668), (602, 11722), (609, 11752), (631, 11821), (633, 11833), (646, 11890), (647, 11896), (653, 11914), (680, 12019), (699, 12073), (708, 12100), (710, 12103),

Gene: Urla_14 Start: 9754, Stop: 12303, Start Num: 19
Candidate Starts for Urla_14:
(Start: 19 @9754 has 29 MA's), (42, 9883), (50, 9919), (75, 10027), (76, 10042), (108, 10189), (114, 10210), (136, 10306), (154, 10396), (202, 10600), (222, 10660), (225, 10669), (366, 10996), (384, 11050), (387, 11056), (391, 11074), (403, 11113), (419, 11161), (438, 11224), (457, 11278), (465, 11302), (467, 11308), (480, 11347), (483, 11359), (488, 11377), (489, 11380), (491, 11386), (492, 11389), (497, 11407), (508, 11440), (512, 11458), (518, 11479), (521, 11488), (524, 11497), (536, 11530), (539, 11533), (541, 11542), (542, 11545), (545, 11560), (577, 11644), (588, 11686), (611, 11794), (615, 11806), (631, 11851), (633, 11860), (651, 11926), (652, 11929), (665, 11983), (675, 12022), (692, 12070), (695, 12079), (705, 12103), (709, 12115), (730, 12172), (732, 12178), (746, 12244), (755, 12286),

Gene: VResidence_16 Start: 10828, Stop: 13143, Start Num: 21

Candidate Starts for VResidence_16:
(Start: 21 @10828 has 80 MA's), (27, 10861), (36, 10915), (50, 10984), (79, 11116), (85, 11143), (100, 11224), (114, 11275), (116, 11284), (135, 11368), (160, 11479), (172, 11530), (194, 11620), (201, 11644), (211, 11671), (258, 11764), (369, 11956), (380, 11983), (394, 12016), (404, 12049), (423, 12067), (426, 12073), (440, 12115), (443, 12124), (447, 12136), (480, 12190), (487, 12214), (502, 12256), (507, 12262), (521, 12310), (539, 12355), (543, 12373), (546, 12385), (558, 12430), (585, 12496), (587, 12505), (646, 12730), (651, 12748), (652, 12751), (667, 12817), (681, 12862), (686, 12880), (695, 12901), (735, 13012), (749, 13078),

Gene: Vafari_19 Start: 9870, Stop: 12311, Start Num: 23
Candidate Starts for Vafari_19:
(Start: 23 @9870 has 80 MA's), (29, 9903), (72, 10104), (79, 10146), (90, 10203), (93, 10221), (98, 10245), (112, 10299), (117, 10320), (133, 10383), (141, 10428), (150, 10470), (155, 10488), (168, 10539), (187, 10635), (204, 10695), (219, 10737), (226, 10761), (234, 10791), (235, 10794), (238, 10803), (253, 10851), (254, 10857), (295, 10956), (300, 10971), (308, 10992), (333, 11067), (334, 11070), (353, 11127), (367, 11157), (392, 11229), (401, 11259), (404, 11268), (422, 11301), (423, 11307), (428, 11319), (438, 11352), (443, 11367), (454, 11400), (465, 11433), (475, 11463), (479, 11475), (518, 11607), (535, 11655), (536, 11661), (538, 11673), (555, 11742), (558, 11751), (582, 11829), (590, 11859), (630, 12012), (631, 12015), (633, 12027), (647, 12090), (653, 12108), (664, 12153), (680, 12213), (708, 12294), (710, 12297),

Gene: Velene_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Velene_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: Vispistious_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for Vispistious_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: VroomVroom_15 Start: 8983, Stop: 11226, Start Num: 21
Candidate Starts for VroomVroom_15:
(Start: 21 @8983 has 80 MA's), (36, 9070), (54, 9151), (60, 9172), (73, 9238), (94, 9343), (122, 9454), (124, 9460), (143, 9556), (151, 9598), (186, 9745), (279, 9880), (296, 9907), (317, 9940), (389, 10024), (401, 10063), (418, 10102), (429, 10126), (437, 10150), (439, 10159), (445, 10177), (455, 10204), (460, 10219), (472, 10255), (476, 10267), (489, 10312), (491, 10318), (509, 10378), (513, 10396), (521, 10420), (536, 10462), (539, 10465), (546, 10495), (584, 10603), (651, 10858), (655, 10870), (675, 10954), (677, 10960), (686, 10990),

Gene: WalkingDead_16 Start: 10494, Stop: 13124, Start Num: 17

Candidate Starts for WalkingDead_16:
(Start: 17 @10494 has 71 MA's), (30, 10554), (47, 10647), (58, 10683), (61, 10692), (79, 10788), (113, 10941), (124, 10980), (159, 11151), (168, 11187), (174, 11220), (178, 11241), (181, 11253), (186, 11271), (193, 11295), (207, 11346), (217, 11373), (219, 11379), (221, 11388), (227, 11406), (244, 11466), (255, 11511), (294, 11598), (305, 11625), (349, 11634), (373, 11700), (393, 11757), (433, 11859), (495, 12060), (496, 12063), (504, 12087), (510, 12111), (518, 12135), (543, 12222), (561, 12282), (588, 12366), (600, 12432), (603, 12444), (608, 12459), (620, 12507), (623, 12516), (624, 12519), (641, 12579), (644, 12594), (665, 12678), (679, 12726), (727, 12879), (730, 12894), (734, 12909), (753, 12996), (763, 13038),

Gene: Waltz_64 Start: 34787, Stop: 37879, Start Num: 9
Candidate Starts for Waltz_64:
(8, 34781), (Start: 9 @34787 has 6 MA's), (13, 34805), (14, 34808), (20, 34838), (34, 34916), (56, 35018), (60, 35030), (73, 35099), (122, 35315), (123, 35318), (124, 35321), (140, 35408), (151, 35459), (163, 35504), (171, 35531), (186, 35606), (191, 35624), (199, 35657), (213, 35702), (219, 35720), (230, 35786), (231, 35789), (243, 35828), (249, 35861), (255, 35882), (256, 35897), (264, 35939), (265, 35969), (272, 35993), (278, 36017), (280, 36023), (287, 36038), (291, 36047), (321, 36140), (326, 36161), (339, 36197), (347, 36230), (368, 36281), (374, 36311), (395, 36374), (410, 36422), (419, 36443), (423, 36461), (428, 36473), (431, 36482), (436, 36497), (442, 36518), (457, 36563), (460, 36572), (466, 36590), (482, 36641), (490, 36671), (493, 36680), (512, 36749), (525, 36806), (560, 36938), (567, 36956), (581, 37010), (582, 37013), (594, 37064), (595, 37067), (609, 37133), (612, 37145), (644, 37244), (648, 37265), (659, 37307), (683, 37397), (692, 37418), (698, 37442), (702, 37451), (709, 37472), (721, 37505), (722, 37514), (745, 37607), (757, 37652), (766, 37718), (769, 37775), (770, 37841),

Gene: Warda_16 Start: 10726, Stop: 13041, Start Num: 21
Candidate Starts for Warda_16:
(Start: 21 @10726 has 80 MA's), (47, 10882), (49, 10891), (71, 10972), (72, 10984), (81, 11032), (82, 11035), (89, 11077), (105, 11149), (128, 11230), (129, 11233), (134, 11263), (145, 11317), (150, 11347), (166, 11404), (172, 11428), (183, 11488), (296, 11713), (371, 11809), (393, 11872), (396, 11881), (424, 11929), (432, 11950), (442, 11983), (457, 12025), (470, 12064), (488, 12124), (535, 12265), (585, 12394), (587, 12403), (593, 12427), (598, 12460), (608, 12496), (611, 12514), (645, 12625), (651, 12646), (652, 12649), (660, 12682), (681, 12760), (695, 12799), (718, 12859), (729, 12889), (741, 12940), (752, 12985), (762, 13030),

Gene: Wardwill_20 Start: 10041, Stop: 12482, Start Num: 23
Candidate Starts for Wardwill_20:
(Start: 23 @10041 has 80 MA's), (29, 10074), (79, 10317), (90, 10374), (93, 10392), (98, 10416), (112, 10470), (117, 10491), (133, 10554), (141, 10599), (150, 10641), (155, 10659), (168, 10710), (187, 10806), (204, 10866), (219, 10908), (226, 10932), (234, 10962), (235, 10965), (238, 10974), (253, 11022), (254, 11028), (295, 11127), (300, 11142), (308, 11163), (333, 11238), (334, 11241), (353, 11298), (367, 11328), (392, 11400), (401, 11430), (404, 11439), (422, 11472), (423, 11478), (428, 11490), (438, 11523), (443, 11538), (454, 11571), (465, 11604), (475, 11634), (479, 11646), (518, 11778), (535, 11826), (536, 11832), (538, 11844), (555, 11913), (558, 11922), (582, 12000), (590, 12030), (630, 12183), (631, 12186), (633, 12198), (647, 12261), (653, 12279), (664, 12324), (680, 12384), (708, 12465), (710, 12468),

Gene: Wayne_18 Start: 12693, Stop: 15248, Start Num: 19
Candidate Starts for Wayne_18:
(15, 12672), (Start: 19 @12693 has 29 MA's), (29, 12741), (42, 12822), (47, 12846), (68, 12918), (75, 12966), (76, 12981), (78, 12987), (114, 13149), (126, 13194), (136, 13245), (137, 13248), (142, 13278), (173, 13416), (202, 13539), (222, 13599), (230, 13617), (235, 13632), (252, 13683), (351, 13914), (379, 13983), (387, 14007), (391, 14025), (393, 14031), (409, 14085), (413, 14097), (420,

14118), (428, 14142), (457, 14229), (465, 14253), (467, 14259), (468, 14262), (472, 14274), (479, 14295), (480, 14298), (481, 14304), (483, 14310), (488, 14328), (489, 14331), (491, 14337), (505, 14382), (508, 14391), (512, 14409), (518, 14430), (521, 14439), (524, 14448), (536, 14481), (539, 14484), (541, 14493), (542, 14496), (554, 14547), (588, 14637), (611, 14745), (615, 14757), (622, 14778), (623, 14781), (651, 14877), (652, 14880), (665, 14934), (675, 14973), (695, 15030), (712, 15072), (730, 15120), (739, 15162), (746, 15192),

Gene: WestPM_17 Start: 9807, Stop: 12245, Start Num: 23
Candidate Starts for WestPM_17:
(Start: 23 @9807 has 80 MA's), (65, 9999), (79, 10083), (90, 10140), (93, 10158), (98, 10182), (112, 10236), (117, 10257), (133, 10320), (141, 10365), (155, 10425), (160, 10443), (168, 10476), (178, 10536), (186, 10566), (187, 10572), (198, 10611), (204, 10632), (205, 10635), (226, 10698), (234, 10728), (235, 10731), (239, 10743), (253, 10788), (254, 10794), (278, 10854), (287, 10875), (309, 10932), (333, 11004), (364, 11085), (383, 11139), (392, 11166), (401, 11196), (404, 11205), (423, 11244), (428, 11256), (437, 11283), (441, 11298), (443, 11304), (447, 11316), (454, 11337), (465, 11370), (475, 11400), (479, 11412), (506, 11502), (513, 11532), (519, 11547), (527, 11571), (530, 11580), (535, 11592), (538, 11610), (551, 11667), (555, 11679), (558, 11688), (582, 11766), (590, 11796), (591, 11799), (602, 11853), (603, 11859), (605, 11865), (630, 11949), (631, 11952), (633, 11964), (636, 11982), (646, 12021), (647, 12027), (682, 12156), (687, 12171), (706, 12228),

Gene: Wheelbite_63 Start: 36504, Stop: 39521, Start Num: 9
Candidate Starts for Wheelbite_63:
(Start: 9 @36504 has 6 MA's), (14, 36525), (20, 36555), (Start: 21 @36558 has 80 MA's), (38, 36663), (63, 36756), (73, 36816), (120, 37026), (122, 37032), (123, 37035), (124, 37038), (140, 37125), (151, 37176), (162, 37218), (163, 37221), (181, 37305), (186, 37323), (228, 37473), (261, 37566), (287, 37665), (319, 37761), (333, 37809), (334, 37812), (339, 37824), (344, 37845), (347, 37857), (368, 37908), (395, 38001), (399, 38016), (436, 38124), (439, 38136), (442, 38145), (452, 38175), (460, 38199), (465, 38214), (482, 38268), (493, 38307), (525, 38433), (550, 38538), (572, 38604), (582, 38640), (587, 38658), (593, 38682), (595, 38694), (596, 38703), (598, 38715), (611, 38769), (638, 38850), (644, 38871), (648, 38892), (659, 38934), (660, 38937), (692, 39045), (702, 39078), (709, 39099), (722, 39141), (725, 39147), (738, 39204), (745, 39234), (747, 39243), (764, 39342), (765, 39348), (769, 39417), (771, 39504),

Gene: WildNOut_17 Start: 9362, Stop: 11632, Start Num: 22
Candidate Starts for WildNOut_17:
(Start: 22 @9362 has 123 MA's), (41, 9479), (50, 9509), (75, 9620), (79, 9644), (90, 9701), (104, 9773), (109, 9788), (112, 9797), (133, 9881), (141, 9926), (147, 9956), (168, 10046), (178, 10106), (196, 10163), (204, 10184), (234, 10280), (235, 10283), (247, 10325), (278, 10406), (287, 10427), (292, 10439), (305, 10472), (333, 10556), (342, 10586), (359, 10625), (371, 10658), (372, 10664), (387, 10703), (390, 10712), (392, 10718), (403, 10754), (412, 10766), (423, 10796), (436, 10832), (454, 10889), (465, 10922), (484, 10982), (506, 11054), (582, 11186), (590, 11216), (591, 11219), (600, 11267), (610, 11309), (626, 11357), (631, 11372), (643, 11414), (650, 11441), (675, 11528), (678, 11537), (697, 11594),

Gene: Wildwest_17 Start: 11664, Stop: 13910, Start Num: 21
Candidate Starts for Wildwest_17:
(Start: 21 @11664 has 80 MA's), (47, 11820), (49, 11829), (57, 11856), (71, 11910), (81, 11970), (105, 12087), (128, 12168), (129, 12171), (134, 12201), (145, 12255), (150, 12285), (166, 12342), (172, 12366), (179, 12408), (183, 12426), (296, 12651), (380, 12771), (396, 12819), (424, 12867), (428, 12876), (457, 12963), (470, 13002), (476, 13020), (488, 13062), (520, 13164), (543, 13209), (547, 13224), (560, 13269), (582, 13323), (585, 13332), (591, 13356), (599, 13380), (622, 13419), (645, 13497), (651, 13518), (652, 13521), (664, 13569), (681, 13632), (686, 13650), (695, 13671), (749, 13845),

Gene: WilliamStrong_16 Start: 10464, Stop: 12896, Start Num: 23
Candidate Starts for WilliamStrong_16:
(Start: 23 @10464 has 80 MA's), (24, 10479), (50, 10608), (67, 10668), (75, 10719), (79, 10743), (90, 10800), (104, 10872), (112, 10896), (133, 10980), (141, 11025), (147, 11055), (168, 11145), (178, 11205), (187, 11241), (216, 11316), (217, 11319), (234, 11379), (235, 11382), (253, 11439), (254, 11445), (275, 11493), (287, 11526), (295, 11544), (300, 11559), (333, 11655), (344, 11691), (352, 11712), (353, 11715), (372, 11763), (383, 11790), (392, 11817), (416, 11874), (422, 11889), (465, 12021), (475, 12051), (479, 12063), (513, 12183), (530, 12231), (541, 12273), (548, 12303), (562, 12348), (569, 12372), (591, 12450), (600, 12498), (610, 12540), (631, 12603), (649, 12672), (651, 12678), (658, 12702), (661, 12717), (668, 12741), (688, 12804), (689, 12807), (701, 12846), (703, 12855), (714, 12882),

Gene: Winzigespinne_17 Start: 9653, Stop: 11923, Start Num: 22
Candidate Starts for Winzigespinne_17:
(Start: 22 @9653 has 123 MA's), (41, 9770), (50, 9800), (67, 9860), (75, 9911), (79, 9935), (90, 9992), (109, 10079), (112, 10088), (133, 10172), (141, 10217), (146, 10244), (147, 10247), (168, 10337), (178, 10397), (196, 10454), (204, 10475), (234, 10571), (235, 10574), (247, 10616), (278, 10697), (287, 10718), (292, 10730), (305, 10763), (330, 10841), (333, 10847), (342, 10877), (359, 10916), (371, 10949), (372, 10955), (383, 10982), (387, 10994), (390, 11003), (392, 11009), (412, 11057), (422, 11081), (423, 11087), (436, 11123), (454, 11180), (506, 11345), (522, 11399), (582, 11477), (590, 11507), (591, 11510), (600, 11558), (626, 11648), (631, 11663), (643, 11705), (645, 11717), (650, 11732), (675, 11819), (678, 11828), (697, 11885),

Gene: Xebius_16 Start: 9432, Stop: 11840, Start Num: 23
Candidate Starts for Xebius_16:
(Start: 23 @9432 has 80 MA's), (24, 9447), (41, 9546), (67, 9636), (79, 9711), (90, 9768), (92, 9777), (104, 9840), (109, 9855), (112, 9864), (133, 9948), (141, 9993), (147, 10023), (156, 10065), (168, 10113), (178, 10173), (196, 10230), (226, 10317), (234, 10347), (235, 10350), (239, 10362), (287, 10494), (290, 10500), (309, 10551), (326, 10602), (327, 10605), (333, 10623), (342, 10653), (348, 10665), (364, 10704), (383, 10758), (390, 10779), (392, 10785), (422, 10857), (423, 10863), (436, 10899), (437, 10902), (454, 10956), (465, 10989), (475, 11019), (479, 11031), (484, 11049), (506, 11121), (513, 11151), (526, 11187), (535, 11211), (543, 11250), (551, 11286), (554, 11295), (562, 11316), (590, 11415), (591, 11418), (600, 11466), (626, 11556), (631, 11571), (643, 11616), (649, 11643), (655, 11661), (659, 11682), (664, 11700), (667, 11709), (674, 11730), (675, 11736), (678, 11745), (697, 11802), (706, 11829), (708, 11832),

Gene: Yang_16 Start: 10824, Stop: 13148, Start Num: 21
Candidate Starts for Yang_16:
(Start: 21 @10824 has 80 MA's), (52, 10998), (59, 11022), (71, 11070), (81, 11130), (105, 11247), (128, 11328), (129, 11331), (134, 11361), (150, 11445), (166, 11502), (172, 11526), (183, 11586), (185, 11592), (295, 11808), (296, 11811), (396, 11979), (424, 12027), (432, 12048), (442, 12081), (457, 12123), (470, 12162), (474, 12174), (488, 12222), (517, 12315), (547, 12384), (581, 12480), (587, 12501), (608, 12594), (611, 12612), (651, 12744), (652, 12747), (681, 12858), (695, 12897),

Gene: YesChef_16 Start: 10781, Stop: 13096, Start Num: 21
Candidate Starts for YesChef_16:
(Start: 21 @10781 has 80 MA's), (47, 10937), (49, 10946), (71, 11027), (72, 11039), (81, 11087), (82, 11090), (89, 11132), (105, 11204), (128, 11285), (129, 11288), (134, 11318), (145, 11372), (150, 11402), (166, 11459), (172, 11483), (183, 11543), (296, 11768), (371, 11864), (393, 11927), (396, 11936), (424, 11984), (428, 11993), (432, 12005), (442, 12038), (457, 12080), (470, 12119), (488, 12179), (535, 12320), (564, 12395), (573, 12407), (585, 12449), (587, 12458), (593, 12482), (608, 12551), (611, 12569), (645, 12680), (651, 12701), (652, 12704), (660, 12737), (681, 12815), (695,

12854), (718, 12914), (729, 12944), (741, 12995), (752, 13040), (762, 13085),

Gene: YuuY_16 Start: 9625, Stop: 12036, Start Num: 23
Candidate Starts for YuuY_16:
(Start: 23 @9625 has 80 MA's), (24, 9640), (29, 9658), (41, 9739), (66, 9823), (68, 9832), (79, 9904), (90, 9961), (104, 10033), (109, 10048), (112, 10057), (124, 10099), (133, 10141), (141, 10186), (147, 10216), (156, 10258), (168, 10306), (178, 10366), (196, 10423), (226, 10510), (234, 10540), (235, 10543), (239, 10555), (241, 10564), (253, 10600), (261, 10621), (278, 10666), (287, 10687), (315, 10756), (333, 10816), (334, 10819), (371, 10918), (372, 10924), (383, 10951), (390, 10972), (392, 10978), (398, 10996), (423, 11056), (442, 11113), (454, 11149), (475, 11212), (513, 11344), (527, 11383), (544, 11446), (590, 11608), (591, 11611), (600, 11659), (612, 11707), (626, 11749), (631, 11764), (649, 11836), (653, 11848), (655, 11854), (664, 11893), (668, 11908), (675, 11932), (678, 11941), (697, 11998), (706, 12025), (708, 12028),

Gene: Zada_17 Start: 9356, Stop: 11626, Start Num: 22
Candidate Starts for Zada_17:
(Start: 22 @9356 has 123 MA's), (41, 9473), (50, 9503), (67, 9563), (75, 9614), (79, 9638), (90, 9695), (109, 9782), (112, 9791), (133, 9875), (141, 9920), (146, 9947), (147, 9950), (168, 10040), (178, 10100), (196, 10157), (204, 10178), (234, 10274), (235, 10277), (247, 10319), (278, 10400), (287, 10421), (292, 10433), (305, 10466), (330, 10544), (333, 10550), (342, 10580), (359, 10619), (371, 10652), (372, 10658), (377, 10670), (383, 10685), (387, 10697), (390, 10706), (392, 10712), (412, 10760), (422, 10784), (423, 10790), (436, 10826), (454, 10883), (506, 11048), (522, 11102), (582, 11180), (590, 11210), (591, 11213), (600, 11261), (626, 11351), (631, 11366), (643, 11408), (645, 11420), (650, 11435), (675, 11522), (678, 11531), (697, 11588),

Gene: Zayuliv_18 Start: 9861, Stop: 12302, Start Num: 23
Candidate Starts for Zayuliv_18:
(Start: 23 @9861 has 80 MA's), (29, 9894), (72, 10095), (79, 10137), (90, 10194), (93, 10212), (98, 10236), (112, 10290), (117, 10311), (133, 10374), (141, 10419), (150, 10461), (155, 10479), (168, 10530), (187, 10626), (204, 10686), (219, 10728), (226, 10752), (234, 10782), (235, 10785), (238, 10794), (253, 10842), (254, 10848), (295, 10947), (300, 10962), (308, 10983), (333, 11058), (334, 11061), (344, 11094), (353, 11118), (367, 11148), (392, 11220), (401, 11250), (404, 11259), (422, 11292), (423, 11298), (428, 11310), (438, 11343), (443, 11358), (454, 11391), (465, 11424), (475, 11454), (479, 11466), (518, 11598), (535, 11646), (536, 11652), (538, 11664), (555, 11733), (558, 11742), (582, 11820), (590, 11850), (630, 12003), (631, 12006), (633, 12018), (645, 12072), (647, 12081), (653, 12099), (664, 12144), (680, 12204), (708, 12285), (710, 12288),

Gene: Zenitsu_16 Start: 9459, Stop: 11867, Start Num: 23
Candidate Starts for Zenitsu_16:
(Start: 23 @9459 has 80 MA's), (24, 9474), (41, 9573), (67, 9663), (79, 9738), (90, 9795), (92, 9804), (104, 9867), (109, 9882), (112, 9891), (133, 9975), (141, 10020), (147, 10050), (156, 10092), (168, 10140), (178, 10200), (196, 10257), (226, 10344), (234, 10374), (235, 10377), (239, 10389), (287, 10521), (290, 10527), (309, 10578), (326, 10629), (327, 10632), (333, 10650), (342, 10680), (348, 10692), (364, 10731), (383, 10785), (390, 10806), (392, 10812), (422, 10884), (423, 10890), (436, 10926), (437, 10929), (454, 10983), (475, 11046), (479, 11058), (484, 11076), (506, 11148), (513, 11178), (522, 11202), (535, 11238), (543, 11277), (551, 11313), (554, 11322), (562, 11343), (590, 11442), (591, 11445), (600, 11493), (626, 11583), (631, 11598), (643, 11643), (649, 11670), (655, 11688), (659, 11709), (664, 11727), (667, 11736), (674, 11757), (675, 11763), (678, 11772), (697, 11829), (706, 11856), (708, 11859),

Gene: Zepp_19 Start: 9869, Stop: 12310, Start Num: 23
Candidate Starts for Zepp_19:

(Start: 23 @9869 has 80 MA's), (29, 9902), (72, 10103), (79, 10145), (90, 10202), (93, 10220), (98, 10244), (112, 10298), (117, 10319), (133, 10382), (141, 10427), (150, 10469), (155, 10487), (168, 10538), (187, 10634), (204, 10694), (219, 10736), (226, 10760), (234, 10790), (235, 10793), (238, 10802), (253, 10850), (254, 10856), (295, 10955), (300, 10970), (308, 10991), (333, 11066), (334, 11069), (353, 11126), (367, 11156), (392, 11228), (401, 11258), (404, 11267), (422, 11300), (423, 11306), (428, 11318), (438, 11351), (443, 11366), (454, 11399), (457, 11408), (465, 11432), (475, 11462), (479, 11474), (518, 11606), (535, 11654), (536, 11660), (538, 11672), (555, 11741), (558, 11750), (582, 11828), (590, 11858), (630, 12011), (631, 12014), (633, 12026), (647, 12089), (653, 12107), (664, 12152), (680, 12212), (708, 12293), (710, 12296),