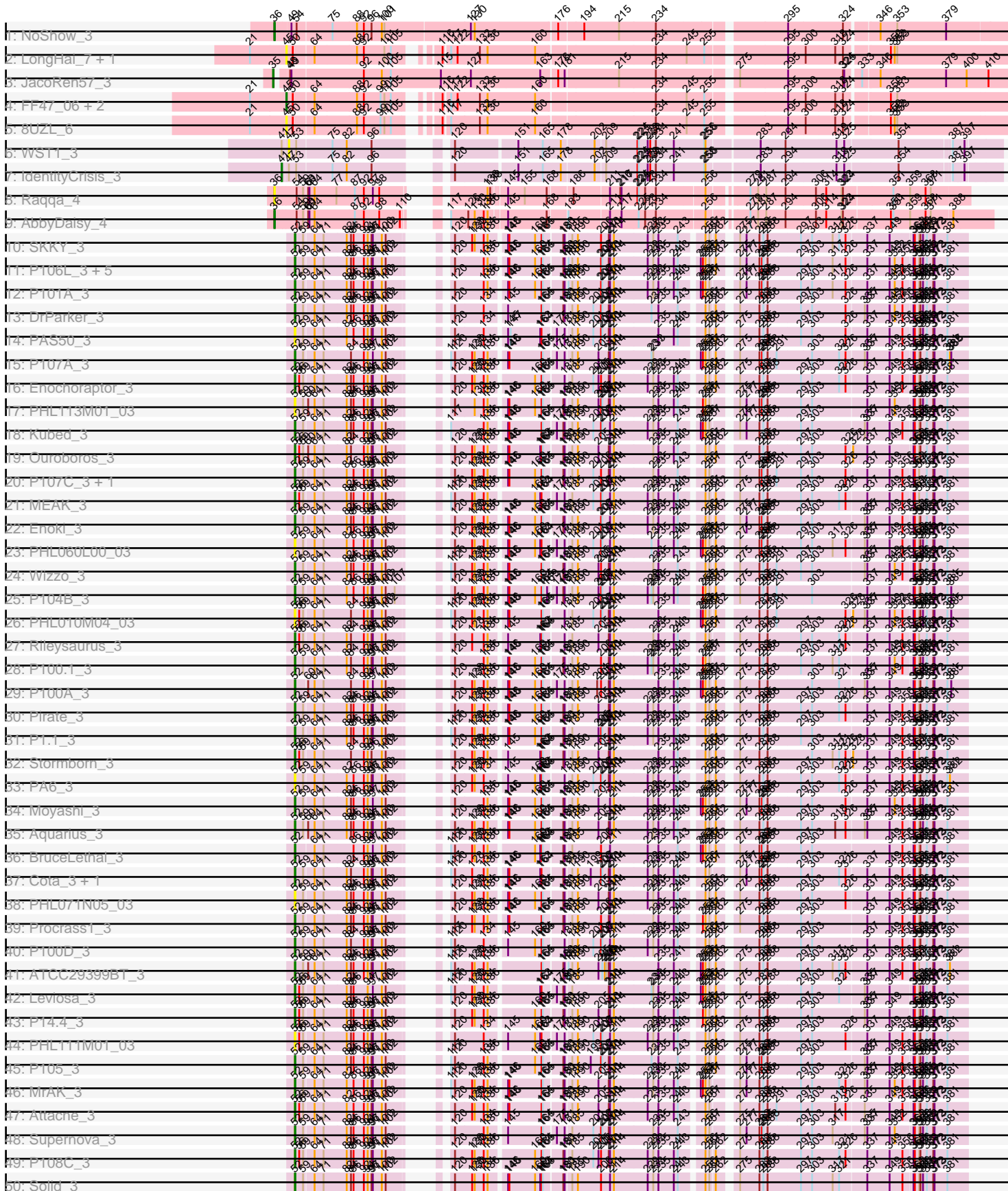
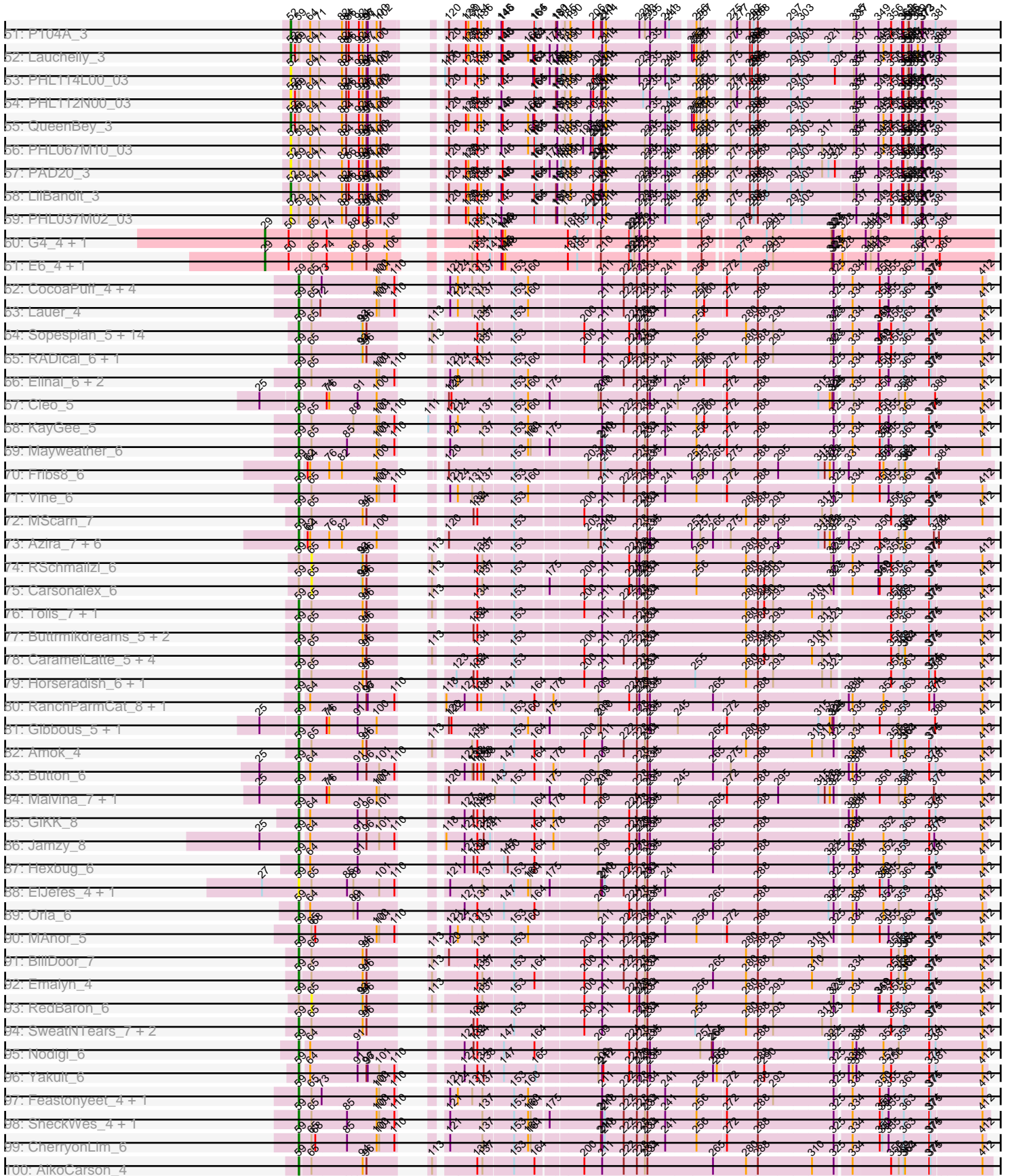


Pham 296143



Pham 296143



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 296143 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296143 has 376 members, 88 are drafts.

Phages represented in each track:

- Track 1 : NoShow_3
- Track 2 : LongHai_7, Salvus_7
- Track 3 : JacoRen57_3
- Track 4 : FF47_06, Muddy_6, Maco6_4
- Track 5 : 8UZL_6
- Track 6 : WST1_3
- Track 7 : IdentityCrisis_3
- Track 8 : Raqqa_4
- Track 9 : AbbyDaisy_4
- Track 10 : SKKY_3
- Track 11 : P106L_3, P106I_3, P9.1_3, P106C_3, P106M_3, P106A_3
- Track 12 : P101A_3
- Track 13 : DrParker_3
- Track 14 : PAS50_3
- Track 15 : P107A_3
- Track 16 : Enochoraptor_3
- Track 17 : PHL113M01_03
- Track 18 : Kubed_3
- Track 19 : Ouroboros_3
- Track 20 : P107C_3, ATCC29399BC_3
- Track 21 : MEAK_3
- Track 22 : Enoki_3
- Track 23 : PHL060L00_03
- Track 24 : Wizzo_3
- Track 25 : P104B_3
- Track 26 : PHL010M04_03
- Track 27 : Rileysaurus_3
- Track 28 : P100.1_3
- Track 29 : P100A_3
- Track 30 : Pirate_3
- Track 31 : P1.1_3
- Track 32 : Stormborn_3
- Track 33 : PA6_3
- Track 34 : Moyashi_3
- Track 35 : Aquarius_3
- Track 36 : BruceLethal_3
- Track 37 : Cota_3, Keiki_3

- Track 38 : PHL071N05_03
- Track 39 : Procrass1_3
- Track 40 : P100D_3
- Track 41 : ATCC29399BT_3
- Track 42 : Leviosa_3
- Track 43 : P14.4_3
- Track 44 : PHL111M01_03
- Track 45 : P105_3
- Track 46 : MrAK_3
- Track 47 : Attacne_3
- Track 48 : Supernova_3
- Track 49 : P108C_3
- Track 50 : Solid_3
- Track 51 : P104A_3
- Track 52 : Lauchelly_3
- Track 53 : PHL114L00_03
- Track 54 : PHL112N00_03
- Track 55 : QueenBey_3
- Track 56 : PHL067M10_03
- Track 57 : PAD20_3
- Track 58 : LilBandit_3
- Track 59 : PHL037M02_03
- Track 60 : G4_4, Doucette_4
- Track 61 : E6_4, B22_4
- Track 62 : CocoaPuff_4, Tarnish_5, Balloona_4, SummitAcademy_4, PotPie_5
- Track 63 : Lauer_4
- Track 64 : Sopespian_5, Socotra_6, Cozz_5, MunkgeeRoachy_5, Quasar_5, GoldHunter_6, PsychoKiller_5, Bubble_5, Burnsey_5, Elliott_5, Nina_5, ChickenTender_7, Typhonmarchy_5, Starburst_6, Axym_5
- Track 65 : RADical_6, Agatha_5
- Track 66 : Elinal_6, Bavailard_5, Yucky_5
- Track 67 : Cleo_5
- Track 68 : KayGee_5
- Track 69 : Mayweather_6
- Track 70 : Fribs8_6
- Track 71 : Vine_6
- Track 72 : MScarn_7
- Track 73 : Azira_7, Wolfwood_8, Survivors_7, Wallaby_8, MaVan_7, Nibbles_7, Zareef_7
- Track 74 : RSchmailzl_6
- Track 75 : Carsonalex_6
- Track 76 : Tolls_7, SteamedHams_7
- Track 77 : Buttrmlkdreams_5, Troje_5, Blondies_6
- Track 78 : CaramelLatte_5, ChocoMunchkin_5, AndPeggy_4, CanesSauce_5, Yarn_4
- Track 79 : Horseradish_6, Yummy_6
- Track 80 : RanchParmCat_8, Margaret_8
- Track 81 : Gibbous_5, Dre3_5
- Track 82 : Amok_4
- Track 83 : Button_6
- Track 84 : Malvina_7, HippoPololi_7
- Track 85 : GiKK_8
- Track 86 : Jamzy_8

- Track 87 : Hexbug_6
- Track 88 : ElJefes_4, McDazzle_4
- Track 89 : Orla_6
- Track 90 : MAnor_5
- Track 91 : BillDoor_7
- Track 92 : Emalyn_4
- Track 93 : RedBaron_6
- Track 94 : SweatNTears_7, Biskit_6, SketchMex_4
- Track 95 : Nodigi_6
- Track 96 : Yakult_6
- Track 97 : Feastonyeet_4, BigChungus_4
- Track 98 : SheckWes_4, Pons_5
- Track 99 : CherryonLim_6
- Track 100 : AikoCarson_4
- Track 101 : GTE2_03
- Track 102 : EnalisNailo_3, Marteena_3, EMSquaredA_3, BritBrat_3, Lilas_3, Pollux_3, Floral_3
- Track 103 : Bradissa_3
- Track 104 : Angelique_3
- Track 105 : Pytheas_3, Jablanski_3
- Track 106 : Wrigley_3
- Track 107 : Posh_3
- Track 108 : BeeGee_3, Confidence_3
- Track 109 : Cashline_3
- Track 110 : LonelyBoi_3
- Track 111 : Morkie_3, InLimbo_3, PhorbesPhlower_3
- Track 112 : Lucky10_3
- Track 113 : BearBQ_3, Birdsong_3, MortyNRick_3
- Track 114 : Ecliptus_4
- Track 115 : ODay_4
- Track 116 : Malisha_4
- Track 117 : Holliday_4, LitninMcQueen_4, Kamaru_4, Budski_4, CheeseTouch_4, Phabuloso_4
- Track 118 : Kenna_4, Periwinkle_4, Lutum_4
- Track 119 : Asapag_4, BotCity_4, BENtherdunthat_4, Leroy_4, Frickyeah_4
- Track 120 : Getalong_4, Whitney_4
- Track 121 : Phistory_4
- Track 122 : Horus_4
- Track 123 : ShawBrad_4
- Track 124 : Spooky_4
- Track 125 : Squiddly_5
- Track 126 : Apricot_3, Crater_3
- Track 127 : Kuwabara_3
- Track 128 : Blarby_5
- Track 129 : Ogopogo_5
- Track 130 : Soul22_4
- Track 131 : Avani_4, SilverChicken_4
- Track 132 : Demsculpinboyz_4
- Track 133 : Yoshi_4
- Track 134 : Zapner_5, Jabbawokkie_5, Che9d_4
- Track 135 : ThetaBob_3
- Track 136 : Renaud18_3
- Track 137 : TChen_3, LunaStella_3

- Track 138 : Toron_3
- Track 139 : BellaJr_5
- Track 140 : Zucker_4, Bauer_5
- Track 141 : Cassini_3
- Track 142 : BlackSpider_3
- Track 143 : Jankie_3
- Track 144 : CallinAllBarbz_3
- Track 145 : BaileyBlu_3
- Track 146 : Elfy_3
- Track 147 : GrimEater_3
- Track 148 : Merpity_4
- Track 149 : MrSmee_3, Skitty_3
- Track 150 : Pitbull_3
- Track 151 : TMaxx_5
- Track 152 : Gerri43_5, ChipsNGuac_5, CardboardBox_5, Neuville_5, Roberts_5, ChamoyPickle_5, Annabelle_5
- Track 153 : Ezurina_4
- Track 154 : Makima_6
- Track 155 : TripleC_8
- Track 156 : Audell_8
- Track 157 : LastNadiia_8
- Track 158 : Mireles_5
- Track 159 : Studio_5
- Track 160 : Agamoto_7
- Track 161 : Peeb_3
- Track 162 : Sweets_3, GoldenAsh_3
- Track 163 : Rabbs_3, BruceB_3, DingDing_3, Kasen3_3, Barkley26_3, Phloodle_3, Sizemore_3, ECartman_3, Jonghyun_3, Periodt_3, Schiebel_3, ZoMa_3, MZKinsey_3, Richarlison_3, Aroostook_3, Jolene_3, Rattrick_3, Angel_3, Sneeze_3, Chance64_3
- Track 164 : Maliketh_3, Cherrybomb426_3, AzulaCat_3, Hope_3, Hotshotbaby7_3, Camri_3, DNAll_003, Wendigo_3, Gomashi_3, Marmie_3, Jeilious_3, Jane_3, Phish_3, Zombie_3, AizenPogi_3, CLED96_3, Renaissance_3, Remy19_3, Cedasite_3, ShaboiShabazz_3, Darionha_3, Crespo_3, Mowgli_3, Frosty24_3, BPs_3, OctaviousRex_3, Neoh_3, CassieYates_3, Olga_3, BQuat_3, Phreak_3, Ruriko_3, Gideon_3, LouisV14_3, JorRay_3, Avrafan_3, TomBrady_3, Kareem_3, DMoney_3, Coleslaw_3
- Track 165 : TinaBug_3, Halo_3
- Track 166 : Grizzly_3
- Track 167 : PinkYoshi_3, Annihilator_3
- Track 168 : Liefie_3
- Track 169 : Terror_3, Taheera_3
- Track 170 : Plagueis_3
- Track 171 : Paito_3
- Track 172 : Avocado_3, Cambiare_4
- Track 173 : Pace1224_3
- Track 174 : FlagStaff_3
- Track 175 : GodSpeed_3
- Track 176 : Cloudyecho_3
- Track 177 : Pinnie_4
- Track 178 : MOOREtheMARYer_3
- Track 179 : Jolie2_3
- Track 180 : Mercurio_4

- Track 181 : Lemuria_3
- Track 182 : Antsirabe_3
- Track 183 : YangYin_3
- Track 184 : Stargaze_3
- Track 185 : Gattaca_35, Raela_36, Lilbit_35, Caprice_33, Beelzebub_40, Blackbeetle_36, Corazon_34, GoongGoong_35, LittleLaf_36, JoieB_37, VasuNzinga_36, Tesla_35, Poise_36, Pringar_36, MosMoris_34
- Track 186 : RedRaider77_36, Marvin_34, Clarkson_37
- Track 187 : Huphlepuuff_38, FeliMaine_38
- Track 188 : Nette_4, Mendokysei_3
- Track 189 : Nairb_4, RonRayGun_4, Whitty_4, Ibrahim_4, Bernal13_4, ZenTime222_4
- Track 190 : Stellammi_3
- Track 191 : LisoBros_3
- Track 192 : Nebkiss_3, Gaia_3
- Track 193 : Spartoi_3
- Track 194 : TPA4_3
- Track 195 : P3MA_4
- Track 196 : ArV2_03
- Track 197 : LilSpotty_3

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

The start number called the most often in the published annotations is 26, it was called in 69 of the 288 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AizenPogi_3, Angel_3, Annihilator_3, Aroostook_3, Avocado_3, Avrafan_3, AzulaCat_3, BPs_3, BQuat_3, Barkley26_3, BruceB_3, CLED96_3, Cambiare_4, Camri_3, CassieYates_3, Cedasite_3, Chance64_3, Cherrybomb426_3, Cloudyecho_3, Coleslaw_3, Crespo_3, DMoney_3, DNAIII_003, Darionha_3, DingDing_3, ECartman_3, FlagStaff_3, Frosty24_3, Gideon_3, GodSpeed_3, GoldenAsh_3, Gomashi_3, Grizzly_3, Halo_3, Hope_3, Hotshotbaby7_3, Jane_3, Jeilious_3, Jolene_3, Jolie2_3, Jonghyun_3, JorRay_3, Kareem_3, Kasen3_3, Lemuria_3, Liefie_3, LouisV14_3, MOOREtheMARYer_3, MZKinsey_3, Maliketh_3, Marmie_3, Mercurio_4, Mowgli_3, Neoh_3, OctaviousRex_3, Olga_3, Pace1224_3, Paito_3, Peeb_3, Periodt_3, Phish_3, Phloodle_3, Phreak_3, PinkYoshi_3, Pinnie_4, Plagueis_3, Rabbs_3, Rattrick_3, Remy19_3, Renaissance_3, Richarlison_3, Ruriko_3, Schiebel_3, ShaboiShabazz_3, Sizemore_3, Sneeze_3, Sweets_3, Taheera_3, Terror_3, TinaBug_3, TomBrady_3, Wendigo_3, ZoMa_3, Zombie_3,

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

-

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

- 8UZL_6, ATCC29399BC_3, ATCC29399BT_3, AbbyDaisy_4, Agamoto_7, Agatha_5, AikoCarson_4, Amok_4, AndPeggy_4, Angelique_3, AnnabelLee_5, Antsirabe_3, Apricot_3, Aquarius_3, ArV2_03, Asapag_4, Attacne_3, Audell_8, Avani_4, Axym_5, Azira_7, B22_4, BENtherdunthat_4, BaileyBlu_3, Balloona_4, Bauer_5, Bavailard_5, BearBQ_3, BeeGee_3, Beelzebub_40, BellaJr_5, Bernal13_4,

BigChungus_4, BillDoor_7, Birdsong_3, Biskit_6, BlackSpider_3, Blackbeetle_36, Blarby_5, Blondies_6, BotCity_4, Bradissa_3, BritBrat_3, BruceLethal_3, Bubble_5, Budski_4, Burnsey_5, Button_6, Buttrmkdreams_5, CallinAllBarbz_3, CanesSauce_5, Caprice_33, CaramellLatte_5, CardboardBox_5, Carsonalex_6, Cashline_3, Cassini_3, ChamoyPickle_5, Che9d_4, CheeseTouch_4, CherryonLim_6, ChickenTender_7, ChipsNGuac_5, ChocoMunchkin_5, Clarkson_37, Cleo_5, CocoaPuff_4, Confidence_3, Corazon_34, Cota_3, Cozz_5, Crater_3, Demsculpinboyz_4, Doucette_4, DrParker_3, Dre3_5, E6_4, EMSquaredA_3, Ecliptus_4, ElJefes_4, Elfy_3, Elinal_6, Elliott_5, Emalyn_4, EnalisNailo_3, Enochoraptor_3, Enoki_3, Ezurina_4, FF47_06, Feastonyeet_4, FeliMaine_38, Floral_3, Fribs8_6, Frickyeah_4, G4_4, GTE2_03, Gaia_3, Gattaca_35, Gerri43_5, Getalong_4, GiKK_8, Gibbous_5, GoldHunter_6, GoongGoong_35, GrimEater_3, Hexbug_6, HippoPololi_7, Holliday_4, Horseradish_6, Horus_4, Huphlepuuff_38, Ibrahim_4, IdentityCrisis_3, InLimbo_3, Jabbawokkie_5, Jablanski_3, JacoRen57_3, Jamzy_8, Jankie_3, JoieB_37, Kamaru_4, KayGee_5, Keiki_3, Kenna_4, Kubed_3, Kuwabara_3, LastNadiia_8, Lauchelly_3, Lauer_4, Leroy_4, Leviosa_3, LilBandit_3, LilSpotty_3, Lilas_3, Lilbit_35, LisoBros_3, LitninMcQueen_4, LittleLaf_36, LonelyBoi_3, LongHai_7, Lucky10_3, LunaStella_3, Lutum_4, MAnor_5, MEAK_3, MScarn_7, MaVan_7, Maco6_4, Makima_6, Malisha_4, Malvina_7, Margaret_8, Marteena_3, Marvin_34, Mayweather_6, McDazzle_4, Mendokysei_3, Merpity_4, Mireles_5, Morkie_3, MortyNRick_3, MosMoris_34, Moyashi_3, MrAK_3, MrSmee_3, Muddy_6, MunkgeeRoachy_5, Nairb_4, Nebkiss_3, Nette_4, Neuville_5, Nibbles_7, Nina_5, NoShow_3, Nodigi_6, ODay_4, Ogotogo_5, Orla_6, Ouroboros_3, P1.1_3, P100.1_3, P100A_3, P100D_3, P101A_3, P104A_3, P104B_3, P105_3, P106A_3, P106C_3, P106I_3, P106L_3, P106M_3, P107A_3, P107C_3, P108C_3, P14.4_3, P3MA_4, P9.1_3, PA6_3, PAD20_3, PAS50_3, PHL010M04_03, PHL037M02_03, PHL060L00_03, PHL067M10_03, PHL071N05_03, PHL111M01_03, PHL112N00_03, PHL113M01_03, PHL114L00_03, Periwinkle_4, Phabuloso_4, Phistory_4, PhorbesPhlower_3, Pirate_3, Pitbull_3, Poise_36, Pollux_3, Pons_5, Posh_3, PotPie_5, Pringar_36, Procrass1_3, PsychoKiller_5, Pytheas_3, Quasar_5, QueenBey_3, RADical_6, RSchmailzl_6, Raela_36, RanchParmCat_8, Raqqa_4, RedBaron_6, RedRaider77_36, Renaud18_3, Rileysaurus_3, Roberts_5, RonRayGun_4, SKKY_3, Salvus_7, ShawBrad_4, SheckWes_4, SilverChicken_4, SketchMex_4, Skitty_3, Socotra_6, Solid_3, Sopespian_5, Soul22_4, Spartoi_3, Spooky_4, Squiddly_5, Starburst_6, Stargaze_3, SteamedHams_7, Stellammi_3, Stormborn_3, Studio_5, SummitAcademy_4, Supernova_3, Survivors_7, SweatNTears_7, TChen_3, TMaxx_5, TPA4_3, Tarnish_5, Tesla_35, ThetaBob_3, Tolls_7, Toron_3, TripleC_8, Troje_5, Typhonmachy_5, VasuNzinga_36, Vine_6, WST1_3, Wallaby_8, Whitney_4, Whitty_4, Wizzo_3, Wolfwood_8, Wrigley_3, Yakult_6, YangYin_3, Yarn_4, Yoshi_4, Yucky_5, Yummy_6, Zapner_5, Zareef_7, ZenTime222_4, Zucker_4,

Summary by start number:

Start 20:

- Found in 3 of 376 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 288
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Stargaze_3 (G5),

Start 22:

- Found in 20 of 376 (5.3%) of genes in pham
- Manual Annotations of this start: 19 of 288

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_40 (S), Blackbeetle_36 (S), Caprice_33 (S), Clarkson_37 (S), Corazon_34 (S), FeliMaine_38 (S), Gattaca_35 (S), GoongGoong_35 (S), Huphlepuuff_38 (S), JoieB_37 (S), Lilbit_35 (S), LittleLaf_36 (S), Marvin_34 (S), MosMoris_34 (S), Poise_36 (S), Pringar_36 (S), Raela_36 (S), RedRaider77_36 (S), Tesla_35 (S), VasuNzinga_36 (S),

Start 24:

- Found in 8 of 376 (2.1%) of genes in pham
- Manual Annotations of this start: 7 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bernal13_4 (T), Ibrahim_4 (T), Mendokysei_3 (T), Nairb_4 (T), Nette_4 (T), RonRayGun_4 (T), Whitty_4 (T), ZenTime222_4 (T),

Start 26:

- Found in 84 of 376 (22.3%) of genes in pham
- Manual Annotations of this start: 69 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AizenPogi_3 (G1), Angel_3 (G1), Annihilator_3 (G1), Aroostook_3 (G1), Avocado_3 (G2), Avrafan_3 (G1), AzulaCat_3 (G1), BPs_3 (G1), BQuat_3 (G1), Barkley26_3 (G1), BruceB_3 (G1), CLED96_3 (G1), Cambiare_4 (G2), Camri_3 (G1), CassieYates_3 (G1), Cedasite_3 (G1), Chance64_3 (G1), Cherrybomb426_3 (G1), Cloudyecho_3 (G3), Coleslaw_3 (G1), Crespo_3 (G1), DMoney_3 (G1), DNAllI_003 (G1), Darionha_3 (G1), DingDing_3 (G1), ECartman_3 (G1), FlagStaff_3 (G2), Frosty24_3 (G1), Gideon_3 (G1), GodSpeed_3 (G2), GoldenAsh_3 (G1), Gomashi_3 (G1), Grizzly_3 (G1), Halo_3 (G1), Hope_3 (G1), Hotshotbaby7_3 (G1), Jane_3 (G1), Jeilious_3 (G), Jolene_3 (G1), Jolie2_3 (G4), Jonghyun_3 (G1), JorRay_3 (G1), Kareem_3 (G1), Kasen3_3 (G1), Lemuria_3 (G4), Liefie_3 (G1), LouisV14_3 (G1), MOOREtheMARYer_3 (G3), MZKinsey_3 (G1), Maliketh_3 (G1), Marmie_3 (G1), Mercurio_4 (G4), Mowgli_3 (G1), Neoh_3 (G), OctaviousRex_3 (G1), Olga_3 (G1), Pace1224_3 (G2), Paito_3 (G1), Peeb_3 (G1), Periodt_3 (G1), Phish_3 (G1), Phloodle_3 (G1), Phreak_3 (G1), PinkYoshi_3 (G1), Pinnie_4 (G3), Plagueis_3 (G1), Rabbs_3 (G1), Rattrick_3 (G1), Remy19_3 (G1), Renaissance_3 (G1), Richarlison_3 (G1), Ruriko_3 (G1), Schiebel_3 (G1), ShaboiShabazz_3 (G1), Sizemore_3 (G1), Sneeze_3 (G1), Sweets_3 (G1), Taheera_3 (G1), Terror_3 (G1), TinaBug_3 (G1), TomBrady_3 (G1), Wendigo_3 (G1), ZoMa_3 (G1), Zombie_3 (G1),

Start 29:

- Found in 4 of 376 (1.1%) of genes in pham
- Manual Annotations of this start: 4 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: B22_4 (BW), Doucette_4 (BW), E6_4 (BW), G4_4 (BW),

Start 30:

- Found in 1 of 376 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_3 (G5),

Start 31:

- Found in 2 of 376 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_3 (X), Nebkiss_3 (X),

Start 33:

- Found in 30 of 376 (8.0%) of genes in pham
- Manual Annotations of this start: 28 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angelique_3 (CY1), Apricot_3 (DN3), BearBQ_3 (DN), BeeGee_3 (CY5), Birdsong_3 (DN), Bradissa_3 (CY1), BritBrat_3 (CY2), Cashline_3 (CY6), Confidence_3 (CY1), Crater_3 (DN3), EMsquaredA_3 (CY1), EnalisNailo_3 (CY1), Floral_3 (CY1), Jablanski_3 (CY3), Kuwabara_3 (DN4), LilSpotty_3 (singleton), Lilas_3 (CY1), LonelyBoi_3 (CY7), LunaStella_3 (F4), Marteena_3 (CY1), MortyNRick_3 (DN), Pollux_3 (CY1), Posh_3 (CY4), Pytheas_3 (CY3), Renaud18_3 (F4), TChen_3 (F4), TPA4_3 (singleton), ThetaBob_3 (F4), Toron_3 (F6), Wrigley_3 (CY4),

Start 34:

- Found in 1 of 376 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spartoi_3 (singleton),

Start 35:

- Found in 1 of 376 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JacoRen57_3 (AB),

Start 36:

- Found in 6 of 376 (1.6%) of genes in pham
- Manual Annotations of this start: 4 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_4 (AY), Merpity_4 (FQ), MrSme_3 (FQ), NoShow_3 (AB), Raqqa_4 (AY), Skitty_3 (FQ),

Start 38:

- Found in 20 of 376 (5.3%) of genes in pham
- Manual Annotations of this start: 3 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agamoto_7 (FR), Annabelle_5 (FR), BaileyBlu_3 (FP), CallinAllBarbz_3 (FP), CardboardBox_5 (FR), ChamoyPickle_5 (FR), ChipsNGuac_5 (FR), Elfy_3 (FP), Ezurina_4 (FR), Gerri43_5 (FR), GrimEater_3 (FP), Jankie_3 (FP), LisoBros_3 (UNK), Makima_6 (FR), Mireles_5 (FR), Neuville_5 (FR), Roberts_5 (FR), Stellammi_3 (UNK), Studio_5 (FR), TripleC_8 (FR),

Start 39:

- Found in 6 of 376 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 288
- Called 50.0% of time when present

- Phage (with cluster) where this start called: Audell_8 (FR), LastNadiia_8 (FR), TMaxx_5 (FR),

Start 40:

- Found in 1 of 376 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV2_03 (singleton),

Start 41:

- Found in 39 of 376 (10.4%) of genes in pham
- Manual Annotations of this start: 32 of 288
- Called 94.9% of time when present
- Phage (with cluster) where this start called: Asapag_4 (DN1), Avani_4 (F2), BENTherdunthat_4 (DN1), Blarby_5 (F), BotCity_4 (DN), Budski_4 (DN), Che9d_4 (F2), CheeseTouch_4 (DN1), Demsculpinboyz_4 (F2), Ecliptus_4 (DN), Frickyeah_4 (DN1), Getalong_4 (DN1), Holliday_4 (DN1), Horus_4 (DN1), IdentityCrisis_3 (AJ), Jabbawokkie_5 (F2), Kamaru_4 (DN1), Kenna_4 (DN1), Leroy_4 (DN1), LitninMcQueen_4 (DN1), Lutum_4 (DN1), Malisha_4 (DN), ODay_4 (DN), Ogopogo_5 (F1), P3MA_4 (singleton), Periwinkle_4 (DN1), Phabuloso_4 (DN1), Phistory_4 (DN1), ShawBrad_4 (DN1), SilverChicken_4 (F2), Soul22_4 (F2), Spooky_4 (DN2), Squiddly_5 (DN2), Whitney_4 (DN1), YangYin_3 (G5), Yoshi_4 (F2), Zapner_5 (F2),

Start 42:

- Found in 3 of 376 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 288
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Pitbull_3 (FQ),

Start 43:

- Found in 5 of 376 (1.3%) of genes in pham
- Manual Annotations of this start: 3 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bauer_5 (FN), BellaJr_5 (FN), BlackSpider_3 (FN), Cassini_3 (FN), Zucker_4 (FN),

Start 44:

- Found in 4 of 376 (1.1%) of genes in pham
- Manual Annotations of this start: 3 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: InLimbo_3 (DH), Lucky10_3 (DH), Morkie_3 (DH), PhorbesPhlower_3 (DH),

Start 45:

- Found in 7 of 376 (1.9%) of genes in pham
- Manual Annotations of this start: 2 of 288
- Called 85.7% of time when present
- Phage (with cluster) where this start called: 8UZL_6 (AB), FF47_06 (AB), LongHai_7 (AB), Maco6_4 (AB), Muddy_6 (AB), Salvus_7 (AB),

Start 47:

- Found in 4 of 376 (1.1%) of genes in pham
- No Manual Annotations of this start.

- Called 25.0% of time when present
- Phage (with cluster) where this start called: WST1_3 (AJ),

Start 52:

- Found in 57 of 376 (15.2%) of genes in pham
- Manual Annotations of this start: 45 of 288
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ATCC29399BC_3 (BU), ATCC29399BT_3 (BU), Aquarius_3 (BU), Attacne_3 (BU), BruceLethal_3 (BU), Cota_3 (BU), DrParker_3 (BU), Enochoraptor_3 (BU), Enoki_3 (BU), Keiki_3 (BU), Kubed_3 (BU), Lauchelly_3 (BU), Leviosa_3 (BU), LilBandit_3 (BU), MEAK_3 (BU), Moyashi_3 (BU), MrAK_3 (BU), Ouroboros_3 (BU), P1.1_3 (BU), P100.1_3 (BU), P100A_3 (BU), P100D_3 (BU), P101A_3 (BU), P104A_3 (BU), P104B_3 (BU), P105_3 (BU), P106A_3 (BU), P106C_3 (BU), P106I_3 (BU), P106L_3 (BU), P106M_3 (BU), P107A_3 (BU), P107C_3 (BU), P108C_3 (BU), P14.4_3 (BU), P9.1_3 (BU), PA6_3 (BU), PAD20_3 (BU), PAS50_3 (BU), PHL010M04_03 (BU), PHL037M02_03 (BU), PHL060L00_03 (BU), PHL067M10_03 (BU), PHL071N05_03 (BU), PHL111M01_03 (BU), PHL112N00_03 (BU), PHL113M01_03 (BU), PHL114L00_03 (BU), Pirate_3 (BU), Procrass1_3 (BU), QueenBey_3 (BU), Rileysaurus_3 (BU), SKKY_3 (BU), Solid_3 (BU), Stormborn_3 (BU), Supernova_3 (BU), Wizzo_3 (BU),

Start 59:

- Found in 246 of 376 (65.4%) of genes in pham
- Manual Annotations of this start: 60 of 288
- Called 32.1% of time when present
- Phage (with cluster) where this start called: Agatha_5 (CT), AikoCarson_4 (CT), Amok_4 (CT), AndPeggy_4 (CT), Axym_5 (CT), Azira_7 (CT), Balloona_4 (CT), Bavailard_5 (CT), BigChungus_4 (CT), BillDoor_7 (CT), Biskit_6 (CT), Blondies_6 (CT), Bubble_5 (CT), Burnsey_5 (CT), Button_6 (CT), Buttrmlkdreams_5 (CT), CanesSauce_5 (CT), CaramelLatte_5 (CT), CherryonLim_6 (CT), ChickenTender_7 (CT), ChocoMunchkin_5 (CT), Cleo_5 (CT), CocoaPuff_4 (CT), Cozz_5 (CT), Dre3_5 (CT), ElJefes_4 (CT), Elinal_6 (CT), Elliott_5 (CT), Emalyn_4 (CT), Feastonyeet_4 (CT), Fribs8_6 (CT), GiKK_8 (CT), Gibbous_5 (CT), GoldHunter_6 (CT), Hexbug_6 (CT), HippoPololi_7 (CT), Horseradish_6 (CT), Jamzy_8 (CT), KayGee_5 (CT), Lauer_4 (CT), MAnor_5 (CT), MScarn_7 (CT), MaVan_7 (CT), Malvina_7 (CT), Margaret_8 (CT), Mayweather_6 (CT), McDazzle_4 (CT), MunkgeeRoachy_5 (CT), Nibbles_7 (CT), Nina_5 (CT), Nodigi_6 (CT), Orla_6 (CT), Pons_5 (CT), PotPie_5 (CT), PsychoKiller_5 (CT), Quasar_5 (CT), RADical_6 (CT), RanchParmCat_8 (CT), SheckWes_4 (CT), SketchMex_4 (CT), Socotra_6 (CT), Sopespian_5 (CT), Starburst_6 (CT), SteamedHams_7 (CT), SummitAcademy_4 (CT), Survivors_7 (CT), SweatNTears_7 (CT), Tarnish_5 (CT), Tolls_7 (CT), Troje_5 (CT), Typhonmarchy_5 (CT), Vine_6 (CT), Wallaby_8 (CT), Wolfwood_8 (CT), Yakult_6 (CT), Yarn_4 (CT), Yucky_5 (CT), Yummy_6 (CT), Zareef_7 (CT),

Start 65:

- Found in 69 of 376 (18.4%) of genes in pham
- No Manual Annotations of this start.
- Called 5.8% of time when present
- Phage (with cluster) where this start called: Carsonalex_6 (CT), GTE2_03 (CT), RSchmailzl_6 (CT), RedBaron_6 (CT),

Summary by clusters:

There are 39 clusters represented in this pham: DN, FQ, FR, DH, singleton, BU, BW, FN, G5, G4, G3, G, G1, F, DN4, DN1, DN3, DN2, CY3, CY2, CY1, AB, CY7, CY6, CY5, CY4, AJ, FP, S, T, AY, X, UNK, G2, CT, F1, F2, F4, F6,

Info for manual annotations of cluster AB:

- Start number 35 was manually annotated 1 time for cluster AB.
- Start number 36 was manually annotated 1 time for cluster AB.
- Start number 45 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster AJ:

- Start number 41 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster AY:

- Start number 36 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster BU:

- Start number 52 was manually annotated 45 times for cluster BU.

Info for manual annotations of cluster BW:

- Start number 29 was manually annotated 4 times for cluster BW.

Info for manual annotations of cluster CT:

- Start number 59 was manually annotated 60 times for cluster CT.

Info for manual annotations of cluster CY1:

- Start number 33 was manually annotated 9 times for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 33 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:

- Start number 33 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:

- Start number 33 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:

- Start number 33 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:

- Start number 33 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 33 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster DH:

- Start number 44 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster DN:

- Start number 33 was manually annotated 3 times for cluster DN.
- Start number 41 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 41 was manually annotated 15 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 41 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 33 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 33 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster F1:

- Start number 41 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 41 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 33 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster FN:

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

Info for manual annotations of cluster FP:

- Start number 38 was manually annotated 2 times for cluster FP.

Info for manual annotations of cluster FQ:

- Start number 36 was manually annotated 2 times for cluster FQ.
- Start number 42 was manually annotated 1 time for cluster FQ.

Info for manual annotations of cluster FR:

- Start number 38 was manually annotated 1 time for cluster FR.
- Start number 39 was manually annotated 2 times for cluster FR.

Info for manual annotations of cluster G1:

- Start number 26 was manually annotated 62 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 26 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 26 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 26 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 20 was manually annotated 1 time for cluster G5.
- Start number 30 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster S:

- Start number 22 was manually annotated 19 times for cluster S.

Info for manual annotations of cluster T:

- Start number 24 was manually annotated 7 times for cluster T.

Info for manual annotations of cluster X:

- Start number 31 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 8UZL_6 Start: 3456, Stop: 4979, Start Num: 45

Candidate Starts for 8UZL_6:

(21, 3372), (Start: 45 @3456 has 2 MA's), (50, 3471), (64, 3513), (88, 3606), (92, 3618), (99, 3657), (101, 3666), (105, 3681), (116, 3744), (117, 3756), (132, 3822), (136, 3840), (160, 3951), (234, 4215), (245, 4284), (255, 4323), (295, 4485), (300, 4524), (318, 4590), (324, 4608), (350, 4701), (352, 4710), (353, 4716),

Gene: ATCC29399BC_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for ATCC29399BC_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (201, 2420), (206, 2438), (210, 2456), (211, 2459), (214, 2468), (233, 2558), (235, 2570), (243, 2615), (256, 2657), (257, 2666), (275, 2708), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (291, 2792), (297, 2846), (303, 2870), (326, 2945), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: ATCC29399BT_3 Start: 1893, Stop: 3218, Start Num: 52

Candidate Starts for ATCC29399BT_3:

(Start: 52 @1893 has 45 MA's), (Start: 59 @1908 has 60 MA's), (60, 1914), (64, 1926), (71, 1947), (82, 1998), (84, 2007), (86, 2013), (92, 2031), (94, 2040), (96, 2049), (97, 2052), (100, 2073), (102, 2082), (117, 2133), (120, 2142), (128, 2181), (130, 2187), (134, 2208), (136, 2217), (164, 2325), (165, 2328), (180, 2367), (181, 2370), (183, 2373), (185, 2382), (190, 2394), (205, 2439), (207, 2448), (208, 2454), (209, 2457), (210, 2463), (211, 2466), (214, 2475), (235, 2577), (241, 2613), (253, 2655), (254, 2658), (256, 2664), (257, 2673), (262, 2682), (275, 2715), (282, 2760), (285, 2769), (288, 2778), (297, 2853), (303, 2877), (317, 2922), (321, 2937), (326, 2952), (337, 2997), (349, 3048), (356, 3075), (361, 3096), (362, 3099), (365, 3105), (369, 3123), (372, 3138), (373, 3141), (381, 3171), (382, 3177),

Gene: AbbyDaisy_4 Start: 2123, Stop: 3580, Start Num: 36

Candidate Starts for AbbyDaisy_4:

(Start: 36 @2123 has 4 MA's), (54, 2171), (Start: 59 @2186 has 60 MA's), (60, 2192), (61, 2195), (64, 2204), (87, 2294), (92, 2309), (98, 2345), (110, 2393), (117, 2420), (126, 2459), (130, 2474), (134, 2495), (136, 2504), (145, 2540), (168, 2630), (183, 2666), (211, 2756), (217, 2783), (225, 2822), (228, 2837), (234, 2861), (256, 2966), (279, 3041), (281, 3059), (287, 3077), (294, 3122), (306, 3188), (314, 3212), (323, 3248), (324, 3251), (350, 3356), (351, 3362), (359, 3398), (368, 3431), (371, 3443), (388, 3491),

Gene: Agamoto_7 Start: 5913, Stop: 7391, Start Num: 38

Candidate Starts for Agamoto_7:

(Start: 38 @5913 has 3 MA's), (79, 6039), (84, 6060), (137, 6285), (139, 6291), (187, 6465), (222, 6588), (225, 6603), (234, 6642), (256, 6753), (279, 6828), (281, 6846), (282, 6849), (297, 6942), (319, 7020), (363, 7188), (367, 7206), (379, 7260), (414, 7374),

Gene: Agatha_5 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for Agatha_5:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: AikoCarson_4 Start: 2484, Stop: 3938, Start Num: 59

Candidate Starts for AikoCarson_4:

(Start: 59 @2484 has 60 MA's), (65, 2508), (94, 2622), (96, 2631), (113, 2712), (134, 2796), (137, 2808), (153, 2877), (164, 2925), (200, 3024), (211, 3066), (222, 3117), (228, 3147), (233, 3165), (234, 3171), (265, 3321), (280, 3399), (288, 3426), (310, 3546), (325, 3597), (334, 3630), (356, 3714), (359, 3732), (363, 3744), (364, 3747), (374, 3804), (375, 3807), (412, 3915),

Gene: AizenPogi_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for AizenPogi_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Amok_4 Start: 2485, Stop: 3939, Start Num: 59

Candidate Starts for Amok_4:

(Start: 59 @2485 has 60 MA's), (65, 2509), (94, 2623), (96, 2632), (113, 2713), (131, 2785), (134, 2797), (153, 2878), (164, 2926), (200, 3025), (211, 3067), (222, 3118), (228, 3148), (233, 3166), (234, 3172), (265, 3322), (280, 3400), (288, 3427), (310, 3547), (317, 3571), (325, 3598), (334, 3631), (356, 3715), (359, 3733), (363, 3745), (364, 3748), (374, 3805), (375, 3808), (412, 3916),

Gene: AndPeggy_4 Start: 2796, Stop: 4250, Start Num: 59

Candidate Starts for AndPeggy_4:

(Start: 59 @2796 has 60 MA's), (65, 2820), (94, 2934), (96, 2943), (113, 3024), (134, 3108), (153, 3189), (200, 3336), (211, 3378), (222, 3429), (228, 3459), (233, 3477), (234, 3483), (280, 3711), (288, 3738), (290, 3753), (293, 3774), (310, 3858), (317, 3882), (356, 4026), (359, 4044), (363, 4056), (364, 4059), (374, 4116), (375, 4119), (412, 4227),

Gene: Angel_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Angel_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Angelique_3 Start: 2278, Stop: 3726, Start Num: 33

Candidate Starts for Angelique_3:

(13, 2125), (Start: 33 @2278 has 28 MA's), (48, 2296), (95, 2464), (101, 2497), (109, 2530), (128, 2602), (187, 2812), (209, 2881), (211, 2890), (218, 2923), (234, 2995), (253, 3097), (259, 3121), (262, 3130), (270, 3163), (272, 3166), (282, 3220), (293, 3274), (299, 3319), (312, 3364), (323, 3403), (324, 3406), (325, 3409), (337, 3454), (403, 3673),

Gene: AnnabelLee_5 Start: 2786, Stop: 4270, Start Num: 38

Candidate Starts for AnnabelLee_5:

(Start: 38 @2786 has 3 MA's), (79, 2915), (84, 2936), (110, 3044), (137, 3161), (139, 3167), (151, 3224), (210, 3410), (225, 3479), (227, 3488), (234, 3518), (241, 3560), (256, 3629), (257, 3638), (279, 3704), (281, 3722), (282, 3725), (297, 3818), (319, 3896), (363, 4064), (395, 4166), (414, 4250),

Gene: Annihilator_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Annihilator_3:

(Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Antsirabe_3 Start: 1976, Stop: 3523, Start Num: 30

Candidate Starts for Antsirabe_3:

(Start: 20 @1922 has 1 MA's), (Start: 30 @1976 has 1 MA's), (58, 2045), (Start: 59 @2048 has 60 MA's), (87, 2156), (96, 2189), (129, 2336), (130, 2339), (160, 2474), (185, 2552), (187, 2558), (209, 2624), (212, 2636), (219, 2669), (225, 2699), (234, 2738), (257, 2858), (275, 2915), (281, 2957), (282, 2960), (287, 2975), (288, 2978), (325, 3152), (375, 3371), (406, 3443), (408, 3458),

Gene: Apricot_3 Start: 2144, Stop: 3622, Start Num: 33

Candidate Starts for Apricot_3:

(Start: 33 @2144 has 28 MA's), (48, 2177), (51, 2186), (64, 2225), (71, 2246), (72, 2249), (73, 2252), (94, 2342), (96, 2351), (97, 2354), (119, 2441), (120, 2444), (131, 2498), (143, 2546), (145, 2561), (149, 2573), (154, 2597), (163, 2636), (183, 2687), (189, 2705), (200, 2735), (201, 2738), (207, 2759), (209, 2768), (213, 2783), (214, 2786), (218, 2810), (231, 2873), (234, 2882), (242, 2927), (244, 2945), (246, 2954), (263, 3023), (273, 3065), (295, 3179), (303, 3233), (315, 3269), (325, 3305), (335, 3344), (337, 3350), (355, 3425), (356, 3428), (359, 3446), (402, 3569),

Gene: Aquarius_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for Aquarius_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (60, 1907), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (205, 2432), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (318, 2921), (326, 2945), (335, 2984), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: ArV2_03 Start: 1797, Stop: 3194, Start Num: 40

Candidate Starts for ArV2_03:

(40, 1797), (54, 1818), (77, 1899), (97, 1980), (106, 2025), (120, 2082), (142, 2172), (152, 2211), (159, 2241), (177, 2298), (179, 2304), (199, 2361), (225, 2466), (230, 2493), (235, 2511), (242, 2550), (255, 2598), (256, 2601), (257, 2610), (275, 2655), (284, 2706), (292, 2745), (321, 2877), (338, 2934), (340, 2946), (369, 3066), (379, 3111),

Gene: Aroostook_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Aroostook_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Asapag_4 Start: 2191, Stop: 3627, Start Num: 41

Candidate Starts for Asapag_4:

(Start: 41 @2191 has 32 MA's), (73, 2281), (83, 2332), (84, 2335), (109, 2440), (120, 2482), (126, 2512), (131, 2536), (140, 2569), (200, 2776), (225, 2878), (226, 2884), (231, 2908), (236, 2929), (237, 2935), (242, 2962), (244, 2980), (251, 3013), (266, 3064), (275, 3094), (286, 3148), (291, 3178), (296, 3208), (325, 3331), (348, 3424), (350, 3439), (365, 3502), (386, 3562), (396, 3589),

Gene: Attacne_3 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for Attacne_3:

(Start: 52 @1881 has 45 MA's), (56, 1887), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (86, 2001), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (120, 2130), (128, 2169), (130, 2175), (134, 2196), (136, 2205), (145, 2235), (146, 2238), (164, 2313), (165, 2316), (180, 2355), (181, 2358), (185, 2370), (190, 2382), (205, 2427), (210, 2451), (211, 2454), (214, 2463), (229, 2541), (235, 2565), (241, 2601), (243, 2610), (256, 2652), (257, 2661), (275, 2703), (282, 2748), (285, 2757), (288, 2766), (291, 2787), (297, 2841), (303, 2865), (318, 2916), (326, 2940), (335, 2979), (349, 3036), (356, 3063), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: Audell_8 Start: 6183, Stop: 7661, Start Num: 39

Candidate Starts for Audell_8:

(Start: 39 @6183 has 2 MA's), (79, 6309), (84, 6330), (137, 6555), (139, 6561), (150, 6609), (157, 6645), (191, 6744), (222, 6858), (225, 6873), (234, 6912), (256, 7023), (279, 7098), (281, 7116), (282, 7119), (293, 7173), (297, 7212), (319, 7290), (324, 7305), (359, 7446), (363, 7458), (367, 7476), (379, 7530), (414, 7644),

Gene: Avani_4 Start: 2180, Stop: 3604, Start Num: 41

Candidate Starts for Avani_4:

(Start: 41 @2180 has 32 MA's), (54, 2213), (71, 2267), (84, 2327), (87, 2336), (96, 2369), (102, 2402), (109, 2432), (121, 2477), (124, 2495), (130, 2519), (131, 2528), (146, 2588), (160, 2648), (162, 2657), (163, 2660), (174, 2693), (183, 2714), (196, 2756), (209, 2795), (212, 2807), (213, 2810), (224, 2867), (225, 2870), (226, 2876), (229, 2891), (236, 2921), (237, 2927), (251, 3005), (275, 3086), (286, 3140), (293, 3185), (296, 3200), (310, 3272), (323, 3317), (325, 3323), (350, 3431), (352, 3440), (354, 3449), (360, 3479), (365, 3494),

Gene: Avocado_3 Start: 1932, Stop: 3473, Start Num: 26

Candidate Starts for Avocado_3:

(2, 1458), (6, 1530), (7, 1545), (10, 1674), (Start: 26 @1932 has 69 MA's), (58, 2004), (Start: 59 @2007 has 60 MA's), (68, 2037), (69, 2040), (96, 2148), (109, 2211), (129, 2295), (130, 2298), (149, 2382), (159, 2427), (160, 2433), (165, 2451), (185, 2508), (187, 2514), (209, 2580), (219, 2625), (226, 2661), (234, 2694), (240, 2730), (254, 2799), (257, 2814), (275, 2871), (287, 2931), (357, 3240), (363, 3267), (368, 3291), (371, 3303), (377, 3330),

Gene: Avrafan_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Avrafan_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386),

(185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Axym_5 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for Axym_5:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: Azira_7 Start: 3686, Stop: 5131, Start Num: 59

Candidate Starts for Azira_7:

(Start: 59 @3686 has 60 MA's), (62, 3698), (64, 3704), (76, 3746), (82, 3776), (100, 3854), (120, 3923), (153, 4070), (203, 4229), (210, 4259), (213, 4268), (228, 4343), (234, 4367), (235, 4373), (253, 4469), (257, 4487), (265, 4517), (275, 4553), (288, 4616), (295, 4661), (315, 4751), (318, 4766), (322, 4778), (325, 4787), (331, 4811), (350, 4880), (359, 4922), (363, 4934), (364, 4937), (378, 5003), (384, 5009),

Gene: AzulaCat_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for AzulaCat_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: B22_4 Start: 2407, Stop: 3918, Start Num: 29

Candidate Starts for B22_4:

(Start: 29 @2407 has 4 MA's), (50, 2461), (65, 2506), (74, 2539), (88, 2596), (96, 2629), (106, 2677), (131, 2788), (134, 2800), (141, 2830), (145, 2851), (146, 2854), (148, 2860), (188, 3004), (195, 3025), (210, 3067), (224, 3133), (225, 3136), (227, 3145), (229, 3157), (234, 3175), (258, 3280), (279, 3346), (291, 3406), (293, 3421), (323, 3550), (324, 3553), (325, 3556), (328, 3577), (343, 3625), (347, 3637), (349, 3655), (369, 3739), (373, 3757), (386, 3793),

Gene: BENtherdunthat_4 Start: 2191, Stop: 3627, Start Num: 41

Candidate Starts for BENtherdunthat_4:

(Start: 41 @2191 has 32 MA's), (73, 2281), (83, 2332), (84, 2335), (109, 2440), (120, 2482), (126, 2512), (131, 2536), (140, 2569), (200, 2776), (225, 2878), (226, 2884), (231, 2908), (236, 2929), (237, 2935), (242, 2962), (244, 2980), (251, 3013), (266, 3064), (275, 3094), (286, 3148), (291, 3178), (296, 3208), (325, 3331), (348, 3424), (350, 3439), (365, 3502), (386, 3562), (396, 3589),

Gene: BPs_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for BPs_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: BQuat_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for BQuat_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386),

(185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: BaileyBlu_3 Start: 1963, Stop: 3396, Start Num: 38

Candidate Starts for BaileyBlu_3:

(Start: 38 @1963 has 3 MA's), (56, 1993), (64, 2020), (96, 2143), (109, 2206), (153, 2392), (208, 2563), (225, 2641), (231, 2671), (238, 2707), (241, 2722), (254, 2785), (271, 2845), (275, 2854), (278, 2872), (279, 2878), (297, 2992), (303, 3016), (323, 3082), (324, 3085), (335, 3130),

Gene: Balloona_4 Start: 2576, Stop: 4009, Start Num: 59

Candidate Starts for Balloona_4:

(Start: 59 @2576 has 60 MA's), (65, 2600), (73, 2624), (100, 2744), (101, 2750), (110, 2786), (121, 2822), (124, 2840), (131, 2873), (137, 2897), (153, 2966), (160, 2999), (211, 3155), (222, 3206), (228, 3236), (234, 3260), (241, 3302), (256, 3371), (272, 3437), (288, 3509), (325, 3680), (334, 3713), (350, 3773), (355, 3794), (363, 3827), (374, 3887), (375, 3890), (412, 4001),

Gene: Barkley26_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Barkley26_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Bauer_5 Start: 3001, Stop: 4440, Start Num: 43

Candidate Starts for Bauer_5:

(Start: 43 @3001 has 3 MA's), (48, 3016), (64, 3061), (75, 3100), (78, 3115), (92, 3166), (96, 3184), (100, 3208), (112, 3268), (127, 3325), (134, 3355), (172, 3490), (177, 3508), (193, 3547), (225, 3673), (228, 3688), (231, 3703), (241, 3754), (252, 3811), (281, 3931), (288, 3952), (289, 3955), (292, 3979), (303, 4051), (310, 4072), (315, 4087), (317, 4096), (322, 4114), (325, 4123), (330, 4150), (335, 4171), (339, 4186), (350, 4231), (359, 4270), (360, 4276), (365, 4291), (370, 4315), (400, 4396),

Gene: Bavilard_5 Start: 3352, Stop: 4785, Start Num: 59

Candidate Starts for Bavilard_5:

(Start: 59 @3352 has 60 MA's), (65, 3376), (100, 3520), (101, 3526), (110, 3562), (121, 3598), (124, 3616), (131, 3649), (137, 3673), (153, 3742), (160, 3775), (211, 3931), (222, 3982), (228, 4012), (234, 4036), (241, 4078), (256, 4147), (260, 4165), (272, 4213), (288, 4285), (325, 4456), (334, 4489), (350, 4549), (355, 4570), (363, 4603), (374, 4663), (375, 4666), (412, 4777),

Gene: BearBQ_3 Start: 2144, Stop: 3622, Start Num: 33

Candidate Starts for BearBQ_3:

(Start: 33 @2144 has 28 MA's), (48, 2177), (51, 2186), (64, 2225), (71, 2246), (72, 2249), (73, 2252), (94, 2342), (96, 2351), (97, 2354), (119, 2441), (120, 2444), (131, 2498), (143, 2546), (145, 2561), (149, 2573), (154, 2597), (163, 2636), (183, 2687), (189, 2705), (200, 2735), (201, 2738), (207, 2759), (209, 2768), (213, 2783), (214, 2786), (218, 2810), (231, 2873), (234, 2882), (242, 2927), (244, 2945), (246, 2954), (263, 3023), (273, 3065), (295, 3179), (303, 3233), (315, 3269), (325, 3305), (335, 3344), (337, 3350), (355, 3425), (356, 3428), (359, 3446), (402, 3569),

Gene: BeeGee_3 Start: 2281, Stop: 3729, Start Num: 33

Candidate Starts for BeeGee_3:

(13, 2128), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (117, 2557), (128, 2605), (187, 2815), (209, 2884), (211, 2893), (231, 2989), (234, 2998), (253, 3100), (259, 3124), (262,

3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3676),

Gene: Beelzebub_40 Start: 13158, Stop: 14723, Start Num: 22

Candidate Starts for Beelzebub_40:

(Start: 22 @13158 has 19 MA's), (Start: 59 @13275 has 60 MA's), (90, 13395), (100, 13440), (102, 13449), (125, 13539), (135, 13587), (136, 13590), (148, 13632), (149, 13635), (154, 13659), (175, 13731), (176, 13734), (191, 13773), (197, 13794), (198, 13797), (210, 13842), (229, 13932), (231, 13941), (234, 13950), (241, 13992), (242, 13995), (248, 14034), (259, 14076), (261, 14082), (262, 14085), (273, 14130), (288, 14199), (303, 14298), (307, 14310), (336, 14409), (351, 14475), (357, 14496), (359, 14511), (386, 14604), (393, 14619),

Gene: BellaJr_5 Start: 3014, Stop: 4447, Start Num: 43

Candidate Starts for BellaJr_5:

(Start: 39 @3005 has 2 MA's), (Start: 43 @3014 has 3 MA's), (64, 3074), (68, 3086), (75, 3113), (92, 3179), (95, 3194), (100, 3221), (110, 3263), (112, 3281), (127, 3338), (138, 3383), (172, 3503), (187, 3545), (198, 3578), (205, 3599), (225, 3686), (228, 3701), (231, 3716), (281, 3944), (288, 3965), (303, 4064), (305, 4070), (315, 4100), (325, 4136), (330, 4163), (332, 4175), (339, 4199), (360, 4289), (370, 4328), (387, 4379), (400, 4409), (407, 4439),

Gene: Bernal13_4 Start: 2624, Stop: 4189, Start Num: 24

Candidate Starts for Bernal13_4:

(17, 2567), (18, 2576), (19, 2579), (Start: 24 @2624 has 7 MA's), (28, 2642), (61, 2732), (63, 2741), (67, 2753), (96, 2870), (107, 2924), (110, 2936), (114, 2960), (133, 3035), (136, 3050), (140, 3062), (144, 3074), (153, 3113), (186, 3230), (190, 3239), (193, 3248), (207, 3296), (212, 3317), (221, 3362), (222, 3365), (233, 3413), (239, 3449), (249, 3506), (265, 3563), (289, 3647), (291, 3665), (299, 3728), (311, 3770), (319, 3800), (355, 3932), (367, 3983), (386, 4046), (391, 4055),

Gene: BigChungus_4 Start: 2601, Stop: 4034, Start Num: 59

Candidate Starts for BigChungus_4:

(Start: 59 @2601 has 60 MA's), (65, 2625), (73, 2649), (100, 2769), (101, 2775), (110, 2811), (121, 2847), (124, 2865), (131, 2898), (137, 2922), (153, 2991), (160, 3024), (211, 3180), (222, 3231), (228, 3261), (234, 3285), (241, 3327), (256, 3396), (272, 3462), (288, 3534), (293, 3570), (325, 3705), (334, 3738), (350, 3798), (355, 3819), (363, 3852), (374, 3912), (375, 3915), (412, 4026),

Gene: BillDoor_7 Start: 2791, Stop: 4245, Start Num: 59

Candidate Starts for BillDoor_7:

(Start: 59 @2791 has 60 MA's), (65, 2815), (94, 2929), (96, 2938), (113, 3019), (120, 3037), (134, 3103), (153, 3184), (200, 3331), (211, 3373), (222, 3424), (228, 3454), (233, 3472), (234, 3478), (280, 3706), (288, 3733), (293, 3769), (310, 3853), (317, 3877), (356, 4021), (359, 4039), (363, 4051), (364, 4054), (374, 4111), (375, 4114), (412, 4222),

Gene: Birdsong_3 Start: 2144, Stop: 3622, Start Num: 33

Candidate Starts for Birdsong_3:

(Start: 33 @2144 has 28 MA's), (48, 2177), (51, 2186), (64, 2225), (71, 2246), (72, 2249), (73, 2252), (94, 2342), (96, 2351), (97, 2354), (119, 2441), (120, 2444), (131, 2498), (143, 2546), (145, 2561), (149, 2573), (154, 2597), (163, 2636), (183, 2687), (189, 2705), (200, 2735), (201, 2738), (207, 2759), (209, 2768), (213, 2783), (214, 2786), (218, 2810), (231, 2873), (234, 2882), (242, 2927), (244, 2945), (246, 2954), (263, 3023), (273, 3065), (295, 3179), (303, 3233), (315, 3269), (325, 3305), (335, 3344), (337, 3350), (355, 3425), (356, 3428), (359, 3446), (402, 3569),

Gene: Biskit_6 Start: 2786, Stop: 4240, Start Num: 59

Candidate Starts for Biskit_6:

(Start: 59 @2786 has 60 MA's), (65, 2810), (94, 2924), (96, 2933), (132, 3089), (134, 3098), (153, 3179), (200, 3326), (211, 3368), (228, 3449), (233, 3467), (234, 3473), (255, 3581), (280, 3701), (288, 3728), (293, 3764), (317, 3872), (323, 3893), (356, 4016), (363, 4046), (374, 4106), (375, 4109), (412, 4217),

Gene: BlackSpider_3 Start: 2013, Stop: 3449, Start Num: 43

Candidate Starts for BlackSpider_3:

(Start: 39 @2004 has 2 MA's), (Start: 43 @2013 has 3 MA's), (57, 2049), (64, 2073), (92, 2178), (96, 2196), (100, 2220), (112, 2280), (127, 2337), (134, 2367), (147, 2424), (165, 2499), (225, 2685), (228, 2700), (229, 2706), (231, 2715), (274, 2898), (276, 2910), (281, 2943), (288, 2964), (289, 2967), (303, 3063), (306, 3072), (315, 3099), (325, 3135), (330, 3162), (335, 3183), (339, 3198), (360, 3288), (370, 3327), (387, 3378), (400, 3408), (405, 3432),

Gene: Blackbeetle_36 Start: 12177, Stop: 13742, Start Num: 22

Candidate Starts for Blackbeetle_36:

(Start: 22 @12177 has 19 MA's), (Start: 59 @12294 has 60 MA's), (90, 12414), (100, 12459), (102, 12468), (125, 12558), (135, 12606), (136, 12609), (148, 12651), (149, 12654), (154, 12678), (175, 12750), (176, 12753), (191, 12792), (197, 12813), (198, 12816), (210, 12861), (229, 12951), (231, 12960), (234, 12969), (241, 13011), (242, 13014), (248, 13053), (259, 13095), (261, 13101), (262, 13104), (273, 13149), (288, 13218), (303, 13317), (307, 13329), (336, 13428), (351, 13494), (357, 13515), (359, 13530), (386, 13623), (393, 13638),

Gene: Blarby_5 Start: 2705, Stop: 4129, Start Num: 41

Candidate Starts for Blarby_5:

(Start: 41 @2705 has 32 MA's), (54, 2738), (71, 2792), (84, 2852), (87, 2861), (102, 2927), (109, 2957), (120, 2999), (121, 3002), (124, 3020), (130, 3044), (131, 3053), (146, 3113), (160, 3173), (162, 3182), (163, 3185), (174, 3218), (183, 3239), (196, 3281), (209, 3320), (212, 3332), (213, 3335), (224, 3392), (225, 3395), (226, 3401), (229, 3416), (236, 3446), (237, 3452), (251, 3530), (275, 3611), (286, 3665), (293, 3710), (296, 3725), (310, 3797), (323, 3842), (325, 3848), (350, 3956), (352, 3965), (354, 3974), (360, 4004), (365, 4019), (371, 4046),

Gene: Blondies_6 Start: 2787, Stop: 4241, Start Num: 59

Candidate Starts for Blondies_6:

(Start: 59 @2787 has 60 MA's), (65, 2811), (94, 2925), (96, 2934), (132, 3090), (134, 3099), (153, 3180), (211, 3369), (228, 3450), (233, 3468), (234, 3474), (280, 3702), (288, 3729), (293, 3765), (317, 3873), (323, 3894), (356, 4017), (363, 4047), (374, 4107), (375, 4110), (412, 4218),

Gene: BotCity_4 Start: 2189, Stop: 3625, Start Num: 41

Candidate Starts for BotCity_4:

(Start: 41 @2189 has 32 MA's), (73, 2279), (83, 2330), (84, 2333), (109, 2438), (120, 2480), (126, 2510), (131, 2534), (140, 2567), (200, 2774), (225, 2876), (226, 2882), (231, 2906), (236, 2927), (237, 2933), (242, 2960), (244, 2978), (251, 3011), (266, 3062), (275, 3092), (286, 3146), (291, 3176), (296, 3206), (325, 3329), (348, 3422), (350, 3437), (365, 3500), (386, 3560), (396, 3587),

Gene: Bradissa_3 Start: 2281, Stop: 3735, Start Num: 33

Candidate Starts for Bradissa_3:

(13, 2128), (16, 2188), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (130, 2611), (179, 2794), (209, 2884), (211, 2893), (234, 2998), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3682),

Gene: BritBrat_3 Start: 2281, Stop: 3735, Start Num: 33

Candidate Starts for BritBrat_3:

(13, 2128), (16, 2188), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (130, 2611), (131, 2620), (174, 2779), (179, 2794), (187, 2815), (209, 2884), (211, 2893), (218, 2926), (231, 2989), (234, 2998), (253, 3100), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3682),

Gene: BruceB_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for BruceB_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: BruceLethal_3 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for BruceLethal_3:

(Start: 52 @1881 has 45 MA's), (64, 1914), (71, 1935), (86, 2001), (92, 2019), (94, 2028), (97, 2040), (100, 2061), (102, 2070), (117, 2121), (120, 2130), (128, 2169), (130, 2175), (134, 2196), (136, 2205), (160, 2298), (163, 2310), (164, 2313), (165, 2316), (180, 2355), (181, 2358), (185, 2370), (206, 2433), (211, 2454), (229, 2541), (235, 2565), (243, 2610), (253, 2643), (254, 2646), (256, 2652), (257, 2661), (262, 2670), (275, 2703), (282, 2748), (284, 2754), (285, 2757), (288, 2766), (297, 2841), (303, 2865), (349, 3036), (356, 3063), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: Bubble_5 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for Bubble_5:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: Budski_4 Start: 2189, Stop: 3625, Start Num: 41

Candidate Starts for Budski_4:

(Start: 41 @2189 has 32 MA's), (75, 2291), (87, 2342), (100, 2399), (102, 2408), (120, 2480), (131, 2534), (140, 2567), (149, 2603), (163, 2666), (200, 2774), (209, 2801), (212, 2813), (213, 2816), (225, 2876), (226, 2882), (236, 2927), (237, 2933), (242, 2960), (244, 2978), (251, 3011), (266, 3062), (275, 3092), (286, 3146), (291, 3176), (296, 3206), (325, 3329), (348, 3422), (350, 3437), (359, 3479), (365, 3500), (371, 3527), (386, 3560), (396, 3587),

Gene: Burnsey_5 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for Burnsey_5:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: Button_6 Start: 2875, Stop: 4326, Start Num: 59

Candidate Starts for Button_6:

(25, 2782), (Start: 59 @2875 has 60 MA's), (64, 2890), (91, 2992), (96, 3013), (101, 3043), (110, 3079), (127, 3148), (131, 3166), (132, 3169), (134, 3178), (136, 3187), (138, 3193), (147, 3235), (164, 3307), (178, 3343), (209, 3439), (228, 3529), (234, 3553), (235, 3559), (265, 3703), (275, 3739), (288, 3802), (331, 4000), (334, 4009), (337, 4018), (363, 4123), (374, 4183), (381, 4198), (412, 4309),

Gene: Buttrmilkdreams_5 Start: 2787, Stop: 4241, Start Num: 59

Candidate Starts for Buttrmlkdreams_5:

(Start: 59 @2787 has 60 MA's), (65, 2811), (94, 2925), (96, 2934), (132, 3090), (134, 3099), (153, 3180), (211, 3369), (228, 3450), (233, 3468), (234, 3474), (280, 3702), (288, 3729), (293, 3765), (317, 3873), (323, 3894), (356, 4017), (363, 4047), (374, 4107), (375, 4110), (412, 4218),

Gene: CLED96_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for CLED96_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: CallinAllBarbz_3 Start: 1965, Stop: 3398, Start Num: 38

Candidate Starts for CallinAllBarbz_3:

(Start: 38 @1965 has 3 MA's), (56, 1995), (94, 2136), (153, 2394), (196, 2529), (213, 2583), (225, 2643), (231, 2673), (238, 2709), (241, 2724), (254, 2787), (271, 2847), (275, 2856), (278, 2874), (279, 2880), (297, 2994), (317, 3063), (324, 3087), (335, 3132), (360, 3240),

Gene: Cambiare_4 Start: 2394, Stop: 3935, Start Num: 26

Candidate Starts for Cambiare_4:

(2, 1920), (6, 1992), (7, 2007), (10, 2136), (Start: 26 @2394 has 69 MA's), (58, 2466), (Start: 59 @2469 has 60 MA's), (68, 2499), (69, 2502), (96, 2610), (109, 2673), (129, 2757), (130, 2760), (149, 2844), (159, 2889), (160, 2895), (165, 2913), (185, 2970), (187, 2976), (209, 3042), (219, 3087), (226, 3123), (234, 3156), (240, 3192), (254, 3261), (257, 3276), (275, 3333), (287, 3393), (357, 3702), (363, 3729), (368, 3753), (371, 3765), (377, 3792),

Gene: Camri_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Camri_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: CanesSauce_5 Start: 2796, Stop: 4250, Start Num: 59

Candidate Starts for CanesSauce_5:

(Start: 59 @2796 has 60 MA's), (65, 2820), (94, 2934), (96, 2943), (113, 3024), (134, 3108), (153, 3189), (200, 3336), (211, 3378), (222, 3429), (228, 3459), (233, 3477), (234, 3483), (280, 3711), (288, 3738), (290, 3753), (293, 3774), (310, 3858), (317, 3882), (356, 4026), (359, 4044), (363, 4056), (364, 4059), (374, 4116), (375, 4119), (412, 4227),

Gene: Caprice_33 Start: 12247, Stop: 13812, Start Num: 22

Candidate Starts for Caprice_33:

(Start: 22 @12247 has 19 MA's), (Start: 59 @12364 has 60 MA's), (90, 12484), (100, 12529), (102, 12538), (125, 12628), (135, 12676), (136, 12679), (148, 12721), (149, 12724), (154, 12748), (175, 12820), (176, 12823), (191, 12862), (197, 12883), (198, 12886), (210, 12931), (229, 13021), (231, 13030), (234, 13039), (241, 13081), (242, 13084), (248, 13123), (259, 13165), (261, 13171), (262, 13174), (273, 13219), (288, 13288), (303, 13387), (307, 13399), (336, 13498), (351, 13564), (357, 13585), (359, 13600), (386, 13693), (393, 13708),

Gene: CaramellLatte_5 Start: 2796, Stop: 4250, Start Num: 59

Candidate Starts for CaramellLatte_5:

(Start: 59 @2796 has 60 MA's), (65, 2820), (94, 2934), (96, 2943), (113, 3024), (134, 3108), (153, 3189), (200, 3336), (211, 3378), (222, 3429), (228, 3459), (233, 3477), (234, 3483), (280, 3711), (288, 3738), (290, 3753), (293, 3774), (310, 3858), (317, 3882), (356, 4026), (359, 4044), (363, 4056), (364, 4059), (374, 4116), (375, 4119), (412, 4227),

Gene: CardboardBox_5 Start: 2786, Stop: 4270, Start Num: 38

Candidate Starts for CardboardBox_5:

(Start: 38 @2786 has 3 MA's), (79, 2915), (84, 2936), (110, 3044), (137, 3161), (139, 3167), (151, 3224), (210, 3410), (225, 3479), (227, 3488), (234, 3518), (241, 3560), (256, 3629), (257, 3638), (279, 3704), (281, 3722), (282, 3725), (297, 3818), (319, 3896), (363, 4064), (395, 4166), (414, 4250),

Gene: Carsonalex_6 Start: 2870, Stop: 4303, Start Num: 65

Candidate Starts for Carsonalex_6:

(Start: 59 @2846 has 60 MA's), (65, 2870), (93, 2981), (94, 2984), (96, 2993), (113, 3074), (134, 3158), (137, 3170), (153, 3239), (175, 3314), (200, 3386), (211, 3428), (224, 3491), (228, 3509), (229, 3515), (233, 3527), (234, 3533), (256, 3644), (280, 3761), (288, 3788), (290, 3803), (293, 3824), (323, 3953), (325, 3959), (334, 3992), (349, 4049), (350, 4052), (356, 4076), (363, 4106), (374, 4166), (375, 4169), (412, 4280),

Gene: Cashline_3 Start: 2281, Stop: 3729, Start Num: 33

Candidate Starts for Cashline_3:

(13, 2128), (Start: 33 @2281 has 28 MA's), (64, 2347), (95, 2467), (99, 2491), (101, 2500), (109, 2533), (117, 2557), (128, 2605), (133, 2626), (187, 2815), (209, 2884), (210, 2890), (211, 2893), (231, 2989), (234, 2998), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3676),

Gene: CassieYates_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for CassieYates_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Cassini_3 Start: 1978, Stop: 3414, Start Num: 43

Candidate Starts for Cassini_3:

(Start: 39 @1969 has 2 MA's), (Start: 43 @1978 has 3 MA's), (64, 2038), (92, 2143), (97, 2164), (100, 2185), (112, 2245), (127, 2302), (134, 2332), (138, 2347), (151, 2407), (165, 2464), (225, 2650), (228, 2665), (229, 2671), (231, 2680), (233, 2683), (274, 2863), (276, 2875), (281, 2908), (288, 2929), (289, 2932), (303, 3028), (306, 3037), (315, 3064), (325, 3100), (330, 3127), (335, 3148), (339, 3163), (360, 3253), (370, 3292), (387, 3343), (400, 3373), (405, 3397),

Gene: Cedasite_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Cedasite_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: ChamoyPickle_5 Start: 2786, Stop: 4270, Start Num: 38

Candidate Starts for ChamoyPickle_5:

(Start: 38 @2786 has 3 MA's), (79, 2915), (84, 2936), (110, 3044), (137, 3161), (139, 3167), (151, 3224), (210, 3410), (225, 3479), (227, 3488), (234, 3518), (241, 3560), (256, 3629), (257, 3638), (279, 3704), (281, 3722), (282, 3725), (297, 3818), (319, 3896), (363, 4064), (395, 4166), (414, 4250),

Gene: Chance64_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Chance64_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Che9d_4 Start: 2190, Stop: 3614, Start Num: 41

Candidate Starts for Che9d_4:

(Start: 41 @2190 has 32 MA's), (54, 2223), (71, 2277), (84, 2337), (87, 2346), (96, 2379), (102, 2412), (109, 2442), (121, 2487), (124, 2505), (130, 2529), (131, 2538), (146, 2598), (160, 2658), (162, 2667), (163, 2670), (174, 2703), (183, 2724), (196, 2766), (209, 2805), (212, 2817), (213, 2820), (224, 2877), (225, 2880), (226, 2886), (229, 2901), (236, 2931), (237, 2937), (251, 3015), (275, 3096), (286, 3150), (293, 3195), (296, 3210), (310, 3282), (323, 3327), (325, 3333), (350, 3441), (352, 3450), (354, 3459), (360, 3489), (365, 3504), (371, 3531),

Gene: CheeseTouch_4 Start: 2189, Stop: 3625, Start Num: 41

Candidate Starts for CheeseTouch_4:

(Start: 41 @2189 has 32 MA's), (75, 2291), (87, 2342), (100, 2399), (102, 2408), (120, 2480), (131, 2534), (140, 2567), (149, 2603), (163, 2666), (200, 2774), (209, 2801), (212, 2813), (213, 2816), (225, 2876), (226, 2882), (236, 2927), (237, 2933), (242, 2960), (244, 2978), (251, 3011), (266, 3062), (275, 3092), (286, 3146), (291, 3176), (296, 3206), (325, 3329), (348, 3422), (350, 3437), (359, 3479), (365, 3500), (371, 3527), (386, 3560), (396, 3587),

Gene: Cherrybomb426_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Cherrybomb426_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: CherryonLim_6 Start: 3321, Stop: 4760, Start Num: 59

Candidate Starts for CherryonLim_6:

(Start: 59 @3321 has 60 MA's), (65, 3351), (68, 3360), (85, 3429), (100, 3495), (101, 3501), (110, 3537), (121, 3573), (137, 3648), (153, 3717), (160, 3750), (161, 3756), (210, 3903), (211, 3906), (213, 3912), (222, 3957), (228, 3987), (233, 4005), (234, 4011), (241, 4053), (256, 4122), (272, 4188), (288, 4260), (325, 4431), (334, 4464), (350, 4524), (351, 4530), (355, 4545), (363, 4578), (374, 4638), (375, 4641), (412, 4752),

Gene: ChickenTender_7 Start: 2837, Stop: 4294, Start Num: 59

Candidate Starts for ChickenTender_7:

(Start: 59 @2837 has 60 MA's), (65, 2861), (93, 2972), (94, 2975), (96, 2984), (113, 3065), (134, 3149), (137, 3161), (153, 3230), (200, 3377), (211, 3419), (224, 3482), (228, 3500), (229, 3506), (233, 3518), (234, 3524), (256, 3635), (280, 3752), (288, 3779), (293, 3815), (323, 3944), (325, 3950), (334, 3983), (349, 4040), (350, 4043), (356, 4067), (363, 4097), (374, 4157), (375, 4160), (412, 4271),

Gene: ChipsNGuac_5 Start: 2786, Stop: 4270, Start Num: 38

Candidate Starts for ChipsNGuac_5:

(Start: 38 @2786 has 3 MA's), (79, 2915), (84, 2936), (110, 3044), (137, 3161), (139, 3167), (151, 3224), (210, 3410), (225, 3479), (227, 3488), (234, 3518), (241, 3560), (256, 3629), (257, 3638), (279, 3704), (281, 3722), (282, 3725), (297, 3818), (319, 3896), (363, 4064), (395, 4166), (414, 4250),

Gene: ChocoMunchkin_5 Start: 2796, Stop: 4250, Start Num: 59

Candidate Starts for ChocoMunchkin_5:

(Start: 59 @2796 has 60 MA's), (65, 2820), (94, 2934), (96, 2943), (113, 3024), (134, 3108), (153, 3189), (200, 3336), (211, 3378), (222, 3429), (228, 3459), (233, 3477), (234, 3483), (280, 3711), (288, 3738), (290, 3753), (293, 3774), (310, 3858), (317, 3882), (356, 4026), (359, 4044), (363, 4056), (364, 4059), (374, 4116), (375, 4119), (412, 4227),

Gene: Clarkson_37 Start: 12859, Stop: 14424, Start Num: 22

Candidate Starts for Clarkson_37:

(Start: 22 @12859 has 19 MA's), (Start: 59 @12976 has 60 MA's), (60, 12982), (90, 13096), (100, 13141), (102, 13150), (125, 13240), (135, 13288), (136, 13291), (148, 13333), (149, 13336), (154, 13360), (175, 13432), (176, 13435), (191, 13474), (197, 13495), (198, 13498), (210, 13543), (229, 13633), (231, 13642), (234, 13651), (241, 13693), (242, 13696), (248, 13735), (259, 13777), (261, 13783), (262, 13786), (273, 13831), (288, 13900), (303, 13999), (307, 14011), (336, 14110), (351, 14176), (357, 14197), (359, 14212), (386, 14305), (393, 14320),

Gene: Cleo_5 Start: 2976, Stop: 4424, Start Num: 59

Candidate Starts for Cleo_5:

(25, 2889), (Start: 59 @2976 has 60 MA's), (74, 3030), (76, 3036), (91, 3099), (100, 3144), (120, 3213), (122, 3219), (153, 3360), (160, 3393), (175, 3438), (209, 3543), (210, 3549), (228, 3633), (234, 3657), (235, 3663), (245, 3726), (272, 3834), (288, 3906), (315, 4041), (322, 4068), (324, 4074), (325, 4077), (335, 4113), (350, 4170), (359, 4212), (364, 4227), (380, 4296), (412, 4398),

Gene: Cloudyecho_3 Start: 1936, Stop: 3486, Start Num: 26

Candidate Starts for Cloudyecho_3:

(Start: 26 @1936 has 69 MA's), (Start: 59 @2014 has 60 MA's), (96, 2155), (129, 2302), (130, 2305), (151, 2401), (160, 2440), (187, 2521), (212, 2596), (213, 2599), (219, 2629), (232, 2689), (234, 2698), (240, 2734), (249, 2785), (275, 2875), (281, 2917), (287, 2935), (325, 3112), (377, 3334), (379, 3340), (406, 3403),

Gene: CocoaPuff_4 Start: 2576, Stop: 4009, Start Num: 59

Candidate Starts for CocoaPuff_4:

(Start: 59 @2576 has 60 MA's), (65, 2600), (73, 2624), (100, 2744), (101, 2750), (110, 2786), (121, 2822), (124, 2840), (131, 2873), (137, 2897), (153, 2966), (160, 2999), (211, 3155), (222, 3206), (228, 3236), (234, 3260), (241, 3302), (256, 3371), (272, 3437), (288, 3509), (325, 3680), (334, 3713), (350, 3773), (355, 3794), (363, 3827), (374, 3887), (375, 3890), (412, 4001),

Gene: Coleslaw_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Coleslaw_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Confidence_3 Start: 2281, Stop: 3729, Start Num: 33

Candidate Starts for Confidence_3:

(13, 2128), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (117, 2557), (128, 2605), (187, 2815), (209, 2884), (211, 2893), (231, 2989), (234, 2998), (253, 3100), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3676),

Gene: Corazon_34 Start: 12812, Stop: 14377, Start Num: 22

Candidate Starts for Corazon_34:

(Start: 22 @12812 has 19 MA's), (Start: 59 @12929 has 60 MA's), (90, 13049), (100, 13094), (102, 13103), (125, 13193), (135, 13241), (136, 13244), (148, 13286), (149, 13289), (154, 13313), (175, 13385), (176, 13388), (191, 13427), (197, 13448), (198, 13451), (210, 13496), (229, 13586), (231, 13595), (234, 13604), (241, 13646), (242, 13649), (248, 13688), (259, 13730), (261, 13736), (262, 13739), (273, 13784), (288, 13853), (303, 13952), (307, 13964), (336, 14063), (351, 14129), (357, 14150), (359, 14165), (386, 14258), (393, 14273),

Gene: Cota_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for Cota_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (117, 2126), (120, 2135), (128, 2174), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (163, 2315), (164, 2318), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (199, 2414), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (275, 2708), (277, 2723), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (321, 2930), (326, 2945), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: Cozz_5 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for Cozz_5:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: Crater_3 Start: 2144, Stop: 3622, Start Num: 33

Candidate Starts for Crater_3:

(Start: 33 @2144 has 28 MA's), (48, 2177), (51, 2186), (64, 2225), (71, 2246), (72, 2249), (73, 2252), (94, 2342), (96, 2351), (97, 2354), (119, 2441), (120, 2444), (131, 2498), (143, 2546), (145, 2561), (149, 2573), (154, 2597), (163, 2636), (183, 2687), (189, 2705), (200, 2735), (201, 2738), (207, 2759), (209, 2768), (213, 2783), (214, 2786), (218, 2810), (231, 2873), (234, 2882), (242, 2927), (244, 2945), (246, 2954), (263, 3023), (273, 3065), (295, 3179), (303, 3233), (315, 3269), (325, 3305), (335, 3344), (337, 3350), (355, 3425), (356, 3428), (359, 3446), (402, 3569),

Gene: Crespo_3 Start: 1889, Stop: 3403, Start Num: 26

Candidate Starts for Crespo_3:

(1, 1322), (6, 1490), (7, 1505), (10, 1634), (Start: 26 @1889 has 69 MA's), (58, 1952), (Start: 59 @1955 has 60 MA's), (61, 1964), (96, 2096), (129, 2243), (130, 2246), (151, 2336), (160, 2375), (163, 2387), (185, 2450), (187, 2456), (202, 2498), (212, 2531), (225, 2594), (234, 2633), (241, 2675), (249, 2720), (256, 2744), (257, 2753), (275, 2810), (281, 2852), (287, 2870), (288, 2873), (319, 3029), (344, 3119), (351, 3155), (363, 3206), (368, 3230),

Gene: DMoney_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for DMoney_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386),

(185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: DNAIII_003 Start: 1897, Stop: 3411, Start Num: 26

Candidate Starts for DNAIII_003:

(1, 1330), (6, 1498), (7, 1513), (10, 1642), (Start: 26 @1897 has 69 MA's), (58, 1960), (Start: 59 @1963 has 60 MA's), (61, 1972), (96, 2104), (129, 2251), (130, 2254), (151, 2344), (160, 2383), (163, 2395), (185, 2458), (187, 2464), (202, 2506), (212, 2539), (225, 2602), (234, 2641), (241, 2683), (249, 2728), (256, 2752), (257, 2761), (275, 2818), (281, 2860), (287, 2878), (288, 2881), (319, 3037), (344, 3127), (351, 3163), (363, 3214), (368, 3238),

Gene: Darionha_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Darionha_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Demsculpinboyz_4 Start: 2181, Stop: 3605, Start Num: 41

Candidate Starts for Demsculpinboyz_4:

(Start: 41 @2181 has 32 MA's), (54, 2214), (71, 2268), (84, 2328), (87, 2337), (96, 2370), (102, 2403), (109, 2433), (121, 2478), (124, 2496), (130, 2520), (131, 2529), (146, 2589), (160, 2649), (163, 2661), (174, 2694), (183, 2715), (196, 2757), (209, 2796), (212, 2808), (213, 2811), (224, 2868), (225, 2871), (226, 2877), (229, 2892), (236, 2922), (237, 2928), (251, 3006), (275, 3087), (286, 3141), (293, 3186), (296, 3201), (310, 3273), (323, 3318), (325, 3324), (350, 3432), (352, 3441), (354, 3450), (360, 3480), (365, 3495), (371, 3522),

Gene: DingDing_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for DingDing_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Doucette_4 Start: 2407, Stop: 3918, Start Num: 29

Candidate Starts for Doucette_4:

(Start: 29 @2407 has 4 MA's), (50, 2461), (65, 2506), (74, 2539), (88, 2596), (96, 2629), (106, 2677), (131, 2788), (134, 2800), (141, 2830), (145, 2851), (146, 2854), (148, 2860), (188, 3004), (195, 3025), (210, 3067), (224, 3133), (225, 3136), (227, 3145), (229, 3157), (234, 3175), (258, 3280), (279, 3346), (291, 3406), (293, 3421), (323, 3550), (324, 3553), (325, 3556), (328, 3577), (343, 3625), (347, 3637), (349, 3655), (369, 3739), (373, 3757), (386, 3793),

Gene: DrParker_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for DrParker_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (145, 2240), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (201, 2420), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (231, 2555), (235, 2570), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (326, 2945), (335, 2984), (337, 2990), (349, 3041), (352, 3053), (356, 3068),

(361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: Dre3_5 Start: 2920, Stop: 4368, Start Num: 59

Candidate Starts for Dre3_5:

(25, 2833), (Start: 59 @2920 has 60 MA's), (74, 2974), (76, 2980), (91, 3043), (100, 3088), (120, 3157), (122, 3163), (153, 3304), (160, 3337), (175, 3382), (209, 3487), (210, 3493), (228, 3577), (234, 3601), (235, 3607), (245, 3670), (272, 3778), (288, 3850), (315, 3985), (322, 4012), (324, 4018), (325, 4021), (335, 4057), (350, 4114), (359, 4156), (380, 4240), (412, 4342),

Gene: E6_4 Start: 2408, Stop: 3919, Start Num: 29

Candidate Starts for E6_4:

(Start: 29 @2408 has 4 MA's), (50, 2462), (65, 2507), (74, 2540), (88, 2597), (96, 2630), (106, 2678), (131, 2789), (134, 2801), (141, 2831), (145, 2852), (146, 2855), (148, 2861), (188, 3005), (195, 3026), (210, 3068), (224, 3134), (225, 3137), (227, 3146), (229, 3158), (234, 3176), (258, 3281), (279, 3347), (291, 3407), (293, 3422), (323, 3551), (324, 3554), (325, 3557), (328, 3578), (343, 3626), (347, 3638), (349, 3656), (369, 3740), (373, 3758), (386, 3794),

Gene: ECartman_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for ECartman_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: EMSquaredA_3 Start: 2281, Stop: 3735, Start Num: 33

Candidate Starts for EMSquaredA_3:

(13, 2128), (16, 2188), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (130, 2611), (131, 2620), (174, 2779), (179, 2794), (187, 2815), (209, 2884), (211, 2893), (218, 2926), (231, 2989), (234, 2998), (253, 3100), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3682),

Gene: Ecliptus_4 Start: 2191, Stop: 3633, Start Num: 41

Candidate Starts for Ecliptus_4:

(Start: 41 @2191 has 32 MA's), (54, 2221), (75, 2293), (84, 2335), (87, 2344), (102, 2410), (109, 2440), (120, 2482), (126, 2512), (131, 2536), (200, 2776), (212, 2815), (213, 2818), (225, 2878), (236, 2929), (237, 2935), (242, 2962), (244, 2980), (251, 3013), (266, 3064), (275, 3094), (286, 3148), (291, 3178), (296, 3208), (302, 3256), (325, 3331), (350, 3439), (354, 3457), (359, 3481), (363, 3493), (365, 3502), (371, 3529),

Gene: ElJefes_4 Start: 3044, Stop: 4489, Start Num: 59

Candidate Starts for ElJefes_4:

(27, 2957), (Start: 59 @3044 has 60 MA's), (65, 3074), (85, 3152), (89, 3164), (101, 3224), (110, 3260), (121, 3296), (137, 3371), (153, 3440), (160, 3473), (161, 3479), (175, 3515), (210, 3626), (211, 3629), (213, 3635), (222, 3680), (228, 3710), (233, 3728), (234, 3734), (241, 3776), (288, 3983), (325, 4154), (334, 4187), (350, 4247), (351, 4253), (355, 4268), (363, 4301), (374, 4361), (375, 4364), (412, 4472),

Gene: Elfy_3 Start: 1986, Stop: 3431, Start Num: 38

Candidate Starts for Elfy_3:

(4, 1491), (8, 1566), (9, 1602), (11, 1719), (15, 1872), (Start: 38 @1986 has 3 MA's), (Start: 45 @2004 has 2 MA's), (61, 2037), (64, 2046), (75, 2085), (81, 2115), (88, 2139), (97, 2172), (100, 2193), (114, 2256), (131, 2325), (147, 2394), (153, 2418), (155, 2427), (179, 2508), (187, 2529), (209, 2595), (225,

2670), (231, 2700), (233, 2703), (242, 2754), (257, 2829), (278, 2901), (279, 2907), (281, 2925), (297, 3021), (301, 3036), (324, 3114), (327, 3129), (335, 3159), (350, 3219), (352, 3228), (358, 3249),

Gene: Elinal_6 Start: 2579, Stop: 4012, Start Num: 59

Candidate Starts for Elinal_6:

(Start: 59 @2579 has 60 MA's), (65, 2603), (100, 2747), (101, 2753), (110, 2789), (121, 2825), (124, 2843), (131, 2876), (137, 2900), (153, 2969), (160, 3002), (211, 3158), (222, 3209), (228, 3239), (234, 3263), (241, 3305), (256, 3374), (260, 3392), (272, 3440), (288, 3512), (325, 3683), (334, 3716), (350, 3776), (355, 3797), (363, 3830), (374, 3890), (375, 3893), (412, 4004),

Gene: Elliott_5 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for Elliott_5:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: Emalyn_4 Start: 2484, Stop: 3938, Start Num: 59

Candidate Starts for Emalyn_4:

(Start: 59 @2484 has 60 MA's), (65, 2508), (94, 2622), (96, 2631), (113, 2712), (134, 2796), (137, 2808), (153, 2877), (164, 2925), (200, 3024), (211, 3066), (222, 3117), (228, 3147), (233, 3165), (234, 3171), (265, 3321), (280, 3399), (288, 3426), (310, 3546), (334, 3630), (356, 3714), (359, 3732), (363, 3744), (364, 3747), (374, 3804), (375, 3807), (412, 3915),

Gene: EnalisNailo_3 Start: 2281, Stop: 3735, Start Num: 33

Candidate Starts for EnalisNailo_3:

(13, 2128), (16, 2188), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (130, 2611), (131, 2620), (174, 2779), (179, 2794), (187, 2815), (209, 2884), (211, 2893), (218, 2926), (231, 2989), (234, 2998), (253, 3100), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3682),

Gene: Enochoraptor_3 Start: 1893, Stop: 3218, Start Num: 52

Candidate Starts for Enochoraptor_3:

(Start: 52 @1893 has 45 MA's), (56, 1899), (Start: 59 @1908 has 60 MA's), (64, 1926), (71, 1947), (82, 1998), (84, 2007), (86, 2013), (92, 2031), (94, 2040), (96, 2049), (97, 2052), (100, 2073), (102, 2082), (120, 2142), (128, 2181), (130, 2187), (134, 2208), (136, 2217), (160, 2310), (164, 2325), (165, 2328), (181, 2370), (185, 2382), (201, 2427), (205, 2439), (206, 2445), (210, 2463), (211, 2466), (214, 2475), (229, 2553), (233, 2565), (235, 2577), (241, 2613), (243, 2622), (256, 2664), (257, 2673), (262, 2682), (275, 2715), (282, 2760), (285, 2769), (288, 2778), (297, 2853), (303, 2877), (321, 2937), (326, 2952), (337, 2997), (349, 3048), (356, 3075), (361, 3096), (362, 3099), (365, 3105), (366, 3108), (369, 3123), (372, 3138), (373, 3141), (381, 3171),

Gene: Enoki_3 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for Enoki_3:

(Start: 52 @1881 has 45 MA's), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (84, 1995), (86, 2001), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (120, 2130), (128, 2169), (130, 2175), (134, 2196), (136, 2205), (145, 2235), (146, 2238), (160, 2298), (164, 2313), (165, 2316), (180, 2355), (181, 2358), (185, 2370), (190, 2382), (206, 2433), (207, 2436), (211, 2454), (214, 2463), (229, 2541), (233, 2553), (235, 2565), (241, 2601), (243, 2610), (256, 2652), (257, 2661), (262, 2670), (275, 2703), (277, 2718), (282, 2748), (284, 2754), (285, 2757), (288, 2766), (297, 2841), (303, 2865), (335, 2979), (337, 2985), (349, 3036), (356, 3063), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: Ezurina_4 Start: 2400, Stop: 3884, Start Num: 38

Candidate Starts for Ezurina_4:

(Start: 38 @2400 has 3 MA's), (79, 2529), (84, 2550), (110, 2658), (117, 2688), (137, 2775), (139, 2781), (165, 2895), (225, 3093), (227, 3102), (234, 3132), (241, 3174), (256, 3243), (257, 3252), (279, 3318), (281, 3336), (282, 3339), (297, 3432), (319, 3510), (363, 3678), (395, 3780), (414, 3864),

Gene: FF47_06 Start: 3436, Stop: 4959, Start Num: 45

Candidate Starts for FF47_06:

(21, 3352), (Start: 45 @3436 has 2 MA's), (50, 3451), (64, 3493), (88, 3586), (92, 3598), (99, 3637), (101, 3646), (105, 3661), (116, 3724), (117, 3736), (122, 3751), (132, 3802), (136, 3820), (160, 3931), (234, 4195), (245, 4264), (255, 4303), (295, 4465), (300, 4504), (318, 4570), (324, 4588), (350, 4681), (353, 4696),

Gene: Feastonyeet_4 Start: 2601, Stop: 4034, Start Num: 59

Candidate Starts for Feastonyeet_4:

(Start: 59 @2601 has 60 MA's), (65, 2625), (73, 2649), (100, 2769), (101, 2775), (110, 2811), (121, 2847), (124, 2865), (131, 2898), (137, 2922), (153, 2991), (160, 3024), (211, 3180), (222, 3231), (228, 3261), (234, 3285), (241, 3327), (256, 3396), (272, 3462), (288, 3534), (293, 3570), (325, 3705), (334, 3738), (350, 3798), (355, 3819), (363, 3852), (374, 3912), (375, 3915), (412, 4026),

Gene: FeliMaine_38 Start: 12860, Stop: 14425, Start Num: 22

Candidate Starts for FeliMaine_38:

(Start: 22 @12860 has 19 MA's), (Start: 59 @12977 has 60 MA's), (90, 13097), (100, 13142), (102, 13151), (125, 13241), (135, 13289), (136, 13292), (148, 13334), (149, 13337), (154, 13361), (175, 13433), (176, 13436), (191, 13475), (197, 13496), (198, 13499), (210, 13544), (229, 13634), (231, 13643), (234, 13652), (241, 13694), (242, 13697), (248, 13736), (259, 13778), (261, 13784), (262, 13787), (273, 13832), (288, 13901), (303, 14000), (307, 14012), (336, 14111), (351, 14177), (357, 14198), (359, 14213), (386, 14306), (393, 14321),

Gene: FlagStaff_3 Start: 1900, Stop: 3444, Start Num: 26

Candidate Starts for FlagStaff_3:

(Start: 26 @1900 has 69 MA's), (58, 1972), (Start: 59 @1975 has 60 MA's), (87, 2083), (96, 2116), (109, 2179), (129, 2263), (130, 2266), (149, 2350), (159, 2395), (160, 2401), (185, 2476), (187, 2482), (209, 2548), (212, 2560), (213, 2563), (219, 2593), (234, 2662), (240, 2698), (257, 2782), (275, 2839), (287, 2899), (325, 3076), (357, 3208), (371, 3271), (377, 3298), (399, 3343),

Gene: Floral_3 Start: 2281, Stop: 3735, Start Num: 33

Candidate Starts for Floral_3:

(13, 2128), (16, 2188), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (130, 2611), (131, 2620), (174, 2779), (179, 2794), (187, 2815), (209, 2884), (211, 2893), (218, 2926), (231, 2989), (234, 2998), (253, 3100), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3682),

Gene: Fribs8_6 Start: 3474, Stop: 4919, Start Num: 59

Candidate Starts for Fribs8_6:

(Start: 59 @3474 has 60 MA's), (62, 3486), (64, 3492), (76, 3534), (82, 3564), (100, 3642), (120, 3711), (153, 3858), (203, 4017), (210, 4047), (213, 4056), (228, 4131), (234, 4155), (235, 4161), (253, 4257), (257, 4275), (265, 4305), (275, 4341), (288, 4404), (295, 4449), (315, 4539), (318, 4554), (322, 4566), (325, 4575), (331, 4599), (350, 4668), (352, 4677), (359, 4710), (363, 4722), (364, 4725), (384, 4797),

Gene: Frickyeah_4 Start: 2191, Stop: 3627, Start Num: 41

Candidate Starts for Frickyeah_4:

(Start: 41 @2191 has 32 MA's), (73, 2281), (83, 2332), (84, 2335), (109, 2440), (120, 2482), (126, 2512), (131, 2536), (140, 2569), (200, 2776), (225, 2878), (226, 2884), (231, 2908), (236, 2929), (237, 2935), (242, 2962), (244, 2980), (251, 3013), (266, 3064), (275, 3094), (286, 3148), (291, 3178), (296, 3208), (325, 3331), (348, 3424), (350, 3439), (365, 3502), (386, 3562), (396, 3589),

Gene: Frosty24_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Frosty24_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: G4_4 Start: 2407, Stop: 3918, Start Num: 29

Candidate Starts for G4_4:

(Start: 29 @2407 has 4 MA's), (50, 2461), (65, 2506), (74, 2539), (88, 2596), (96, 2629), (106, 2677), (131, 2788), (134, 2800), (141, 2830), (145, 2851), (146, 2854), (148, 2860), (188, 3004), (195, 3025), (210, 3067), (224, 3133), (225, 3136), (227, 3145), (229, 3157), (234, 3175), (258, 3280), (279, 3346), (291, 3406), (293, 3421), (323, 3550), (324, 3553), (325, 3556), (328, 3577), (343, 3625), (347, 3637), (349, 3655), (369, 3739), (373, 3757), (386, 3793),

Gene: GTE2_03 Start: 2503, Stop: 3933, Start Num: 65

Candidate Starts for GTE2_03:

(Start: 59 @2479 has 60 MA's), (65, 2503), (93, 2614), (94, 2617), (96, 2626), (113, 2707), (120, 2725), (134, 2791), (153, 2872), (211, 3061), (222, 3112), (228, 3142), (233, 3160), (234, 3166), (280, 3394), (285, 3412), (288, 3421), (290, 3436), (293, 3457), (323, 3586), (334, 3625), (356, 3709), (359, 3727), (363, 3739), (364, 3742), (374, 3799), (375, 3802), (412, 3910),

Gene: Gaia_3 Start: 3366, Stop: 4799, Start Num: 31

Candidate Starts for Gaia_3:

(Start: 31 @3366 has 2 MA's), (Start: 42 @3396 has 1 MA's), (46, 3405), (54, 3423), (92, 3561), (97, 3582), (101, 3609), (102, 3612), (114, 3672), (120, 3687), (121, 3690), (124, 3708), (125, 3711), (126, 3717), (138, 3768), (145, 3804), (146, 3807), (151, 3828), (165, 3885), (173, 3912), (178, 3927), (184, 3942), (209, 4008), (216, 4041), (224, 4080), (225, 4083), (226, 4089), (229, 4104), (231, 4113), (234, 4122), (242, 4167), (244, 4185), (250, 4212), (282, 4329), (285, 4338), (288, 4347), (292, 4374), (293, 4383), (302, 4443), (309, 4467), (317, 4494), (323, 4515), (335, 4563), (349, 4620), (354, 4641), (357, 4650), (371, 4713), (373, 4722), (399, 4785),

Gene: Gattaca_35 Start: 12039, Stop: 13604, Start Num: 22

Candidate Starts for Gattaca_35:

(Start: 22 @12039 has 19 MA's), (Start: 59 @12156 has 60 MA's), (90, 12276), (100, 12321), (102, 12330), (125, 12420), (135, 12468), (136, 12471), (148, 12513), (149, 12516), (154, 12540), (175, 12612), (176, 12615), (191, 12654), (197, 12675), (198, 12678), (210, 12723), (229, 12813), (231, 12822), (234, 12831), (241, 12873), (242, 12876), (248, 12915), (259, 12957), (261, 12963), (262, 12966), (273, 13011), (288, 13080), (303, 13179), (307, 13191), (336, 13290), (351, 13356), (357, 13377), (359, 13392), (386, 13485), (393, 13500),

Gene: Gerri43_5 Start: 2786, Stop: 4270, Start Num: 38

Candidate Starts for Gerri43_5:

(Start: 38 @2786 has 3 MA's), (79, 2915), (84, 2936), (110, 3044), (137, 3161), (139, 3167), (151, 3224), (210, 3410), (225, 3479), (227, 3488), (234, 3518), (241, 3560), (256, 3629), (257, 3638), (279, 3704), (281, 3722), (282, 3725), (297, 3818), (319, 3896), (363, 4064), (395, 4166), (414, 4250),

Gene: Getalong_4 Start: 2191, Stop: 3627, Start Num: 41

Candidate Starts for Getalong_4:

(Start: 41 @2191 has 32 MA's), (75, 2293), (83, 2332), (84, 2335), (109, 2440), (120, 2482), (126, 2512), (131, 2536), (140, 2569), (225, 2878), (236, 2929), (237, 2935), (242, 2962), (244, 2980), (251, 3013), (266, 3064), (275, 3094), (286, 3148), (288, 3157), (291, 3178), (296, 3208), (325, 3331), (350, 3439), (365, 3502), (386, 3562), (396, 3589), (398, 3592),

Gene: GiKK_8 Start: 3184, Stop: 4635, Start Num: 59

Candidate Starts for GiKK_8:

(Start: 59 @3184 has 60 MA's), (64, 3199), (91, 3301), (96, 3322), (101, 3352), (127, 3457), (132, 3478), (134, 3487), (138, 3502), (164, 3616), (178, 3652), (209, 3748), (224, 3820), (228, 3838), (234, 3862), (235, 3868), (265, 4012), (288, 4111), (331, 4309), (334, 4318), (337, 4327), (363, 4432), (374, 4492), (381, 4507), (412, 4618),

Gene: Gibbous_5 Start: 2920, Stop: 4368, Start Num: 59

Candidate Starts for Gibbous_5:

(25, 2833), (Start: 59 @2920 has 60 MA's), (74, 2974), (76, 2980), (91, 3043), (100, 3088), (120, 3157), (122, 3163), (153, 3304), (160, 3337), (175, 3382), (209, 3487), (210, 3493), (228, 3577), (234, 3601), (235, 3607), (245, 3670), (272, 3778), (288, 3850), (315, 3985), (322, 4012), (324, 4018), (325, 4021), (335, 4057), (350, 4114), (359, 4156), (380, 4240), (412, 4342),

Gene: Gideon_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Gideon_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: GodSpeed_3 Start: 1903, Stop: 3444, Start Num: 26

Candidate Starts for GodSpeed_3:

(14, 1765), (Start: 26 @1903 has 69 MA's), (58, 1975), (Start: 59 @1978 has 60 MA's), (87, 2086), (96, 2119), (109, 2182), (129, 2266), (130, 2269), (160, 2404), (165, 2422), (187, 2485), (209, 2551), (212, 2563), (219, 2596), (224, 2623), (226, 2632), (234, 2665), (240, 2701), (257, 2785), (275, 2842), (287, 2902), (363, 3238), (371, 3274), (377, 3301), (381, 3310),

Gene: GoldHunter_6 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for GoldHunter_6:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: GoldenAsh_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for GoldenAsh_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (351, 3154), (363, 3205),

Gene: Gomashi_3 Start: 1889, Stop: 3403, Start Num: 26

Candidate Starts for Gomashi_3:

(1, 1322), (6, 1490), (7, 1505), (10, 1634), (Start: 26 @1889 has 69 MA's), (58, 1952), (Start: 59 @1955 has 60 MA's), (61, 1964), (96, 2096), (129, 2243), (130, 2246), (151, 2336), (160, 2375), (163, 2387), (185, 2450), (187, 2456), (202, 2498), (212, 2531), (225, 2594), (234, 2633), (241, 2675), (249, 2720), (256, 2744), (257, 2753), (275, 2810), (281, 2852), (287, 2870), (288, 2873), (319, 3029), (344, 3119), (351, 3155), (363, 3206), (368, 3230),

Gene: GoongGoong_35 Start: 12079, Stop: 13644, Start Num: 22

Candidate Starts for GoongGoong_35:

(Start: 22 @12079 has 19 MA's), (Start: 59 @12196 has 60 MA's), (90, 12316), (100, 12361), (102, 12370), (125, 12460), (135, 12508), (136, 12511), (148, 12553), (149, 12556), (154, 12580), (175, 12652), (176, 12655), (191, 12694), (197, 12715), (198, 12718), (210, 12763), (229, 12853), (231, 12862), (234, 12871), (241, 12913), (242, 12916), (248, 12955), (259, 12997), (261, 13003), (262, 13006), (273, 13051), (288, 13120), (303, 13219), (307, 13231), (336, 13330), (351, 13396), (357, 13417), (359, 13432), (386, 13525), (393, 13540),

Gene: GrimEater_3 Start: 1981, Stop: 3408, Start Num: 38

Candidate Starts for GrimEater_3:

(Start: 38 @1981 has 3 MA's), (74, 2074), (93, 2149), (96, 2161), (139, 2347), (153, 2410), (173, 2482), (187, 2521), (225, 2659), (231, 2689), (241, 2740), (257, 2818), (271, 2863), (278, 2890), (279, 2896), (297, 3010), (324, 3103), (335, 3148), (360, 3256),

Gene: Grizzly_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Grizzly_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (12, 1750), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (292, 2899), (319, 3028), (351, 3154), (363, 3205), (368, 3229),

Gene: Halo_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Halo_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (351, 3154), (363, 3205),

Gene: Hexbug_6 Start: 2787, Stop: 4229, Start Num: 59

Candidate Starts for Hexbug_6:

(Start: 59 @2787 has 60 MA's), (64, 2802), (91, 2904), (127, 3060), (132, 3081), (134, 3090), (147, 3147), (150, 3156), (164, 3219), (209, 3351), (224, 3423), (228, 3441), (234, 3465), (235, 3471), (265, 3615), (288, 3714), (321, 3873), (325, 3885), (334, 3921), (337, 3930), (352, 3990), (359, 4023), (374, 4095), (381, 4110), (412, 4221),

Gene: HippoPololi_7 Start: 3560, Stop: 5008, Start Num: 59

Candidate Starts for HippoPololi_7:

(25, 3467), (Start: 59 @3560 has 60 MA's), (74, 3614), (76, 3620), (100, 3728), (101, 3734), (120, 3797), (143, 3899), (153, 3944), (175, 4022), (200, 4094), (209, 4127), (210, 4133), (228, 4217), (234, 4241), (235, 4247), (245, 4310), (272, 4418), (288, 4490), (295, 4535), (315, 4625), (318, 4640), (322, 4652), (325, 4661), (335, 4697), (350, 4754), (359, 4796), (364, 4811), (378, 4877), (412, 4982),

Gene: Holliday_4 Start: 2189, Stop: 3625, Start Num: 41

Candidate Starts for Holliday_4:

(Start: 41 @2189 has 32 MA's), (75, 2291), (87, 2342), (100, 2399), (102, 2408), (120, 2480), (131, 2534), (140, 2567), (149, 2603), (163, 2666), (200, 2774), (209, 2801), (212, 2813), (213, 2816), (225, 2876), (226, 2882), (236, 2927), (237, 2933), (242, 2960), (244, 2978), (251, 3011), (266, 3062), (275, 3092), (286, 3146), (291, 3176), (296, 3206), (325, 3329), (348, 3422), (350, 3437), (359, 3479), (365, 3500), (371, 3527), (386, 3560), (396, 3587),

Gene: Hope_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Hope_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Horseradish_6 Start: 2693, Stop: 4147, Start Num: 59

Candidate Starts for Horseradish_6:

(Start: 59 @2693 has 60 MA's), (65, 2717), (94, 2831), (96, 2840), (123, 2957), (132, 2996), (134, 3005), (153, 3086), (200, 3233), (211, 3275), (228, 3356), (233, 3374), (234, 3380), (255, 3488), (280, 3608), (288, 3635), (293, 3671), (317, 3779), (323, 3800), (356, 3923), (363, 3953), (374, 4013), (375, 4016), (380, 4025), (412, 4124),

Gene: Horus_4 Start: 2191, Stop: 3627, Start Num: 41

Candidate Starts for Horus_4:

(Start: 41 @2191 has 32 MA's), (61, 2245), (73, 2281), (75, 2293), (83, 2332), (84, 2335), (102, 2410), (120, 2482), (126, 2512), (131, 2536), (136, 2557), (149, 2605), (165, 2674), (179, 2716), (207, 2794), (212, 2815), (213, 2818), (225, 2878), (231, 2908), (233, 2911), (236, 2929), (237, 2935), (242, 2962), (244, 2980), (251, 3013), (269, 3079), (275, 3094), (286, 3148), (291, 3178), (296, 3208), (302, 3256), (325, 3331), (348, 3424), (350, 3439), (365, 3502), (386, 3562), (396, 3589),

Gene: Hotshotbaby7_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Hotshotbaby7_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Huphlebuff_38 Start: 12664, Stop: 14229, Start Num: 22

Candidate Starts for Huphlebuff_38:

(Start: 22 @12664 has 19 MA's), (Start: 59 @12781 has 60 MA's), (90, 12901), (100, 12946), (102, 12955), (125, 13045), (135, 13093), (136, 13096), (148, 13138), (149, 13141), (154, 13165), (175, 13237), (176, 13240), (191, 13279), (197, 13300), (198, 13303), (210, 13348), (229, 13438), (231, 13447), (234, 13456), (241, 13498), (242, 13501), (248, 13540), (259, 13582), (261, 13588), (262, 13591), (273, 13636), (288, 13705), (303, 13804), (307, 13816), (336, 13915), (351, 13981), (357, 14002), (359, 14017), (386, 14110), (393, 14125),

Gene: Ibrahim_4 Start: 2624, Stop: 4189, Start Num: 24

Candidate Starts for Ibrahim_4:

(17, 2567), (18, 2576), (19, 2579), (Start: 24 @2624 has 7 MA's), (28, 2642), (61, 2732), (63, 2741), (67, 2753), (96, 2870), (107, 2924), (110, 2936), (114, 2960), (133, 3035), (136, 3050), (140, 3062), (144, 3074), (153, 3113), (186, 3230), (190, 3239), (193, 3248), (207, 3296), (212, 3317), (221, 3362), (222, 3365), (233, 3413), (239, 3449), (249, 3506), (265, 3563), (289, 3647), (291, 3665), (299, 3728), (311, 3770), (319, 3800), (355, 3932), (367, 3983), (386, 4046), (391, 4055),

Gene: IdentityCrisis_3 Start: 2144, Stop: 3616, Start Num: 41

Candidate Starts for IdentityCrisis_3:

(Start: 41 @2144 has 32 MA's), (47, 2156), (53, 2171), (75, 2243), (82, 2276), (96, 2330), (120, 2435), (151, 2570), (165, 2627), (178, 2666), (202, 2735), (209, 2756), (224, 2828), (225, 2831), (229, 2852), (230, 2858), (234, 2870), (241, 2912), (255, 2981), (256, 2984), (283, 3098), (294, 3155), (319, 3269), (325, 3287), (354, 3407), (387, 3515), (397, 3539),

Gene: InLimbo_3 Start: 1754, Stop: 3208, Start Num: 44

Candidate Starts for InLimbo_3:

(Start: 44 @1754 has 3 MA's), (54, 1781), (67, 1823), (81, 1883), (88, 1907), (96, 1937), (114, 2027), (120, 2042), (130, 2087), (134, 2108), (137, 2120), (149, 2165), (165, 2234), (179, 2276), (191, 2306), (209, 2357), (225, 2432), (236, 2483), (241, 2513), (249, 2558), (256, 2582), (269, 2630), (275, 2645), (303, 2810), (319, 2864), (320, 2867), (354, 3002), (363, 3038), (401, 3143),

Gene: Jabbawokkie_5 Start: 2704, Stop: 4128, Start Num: 41

Candidate Starts for Jabbawokkie_5:

(Start: 41 @2704 has 32 MA's), (54, 2737), (71, 2791), (84, 2851), (87, 2860), (96, 2893), (102, 2926), (109, 2956), (121, 3001), (124, 3019), (130, 3043), (131, 3052), (146, 3112), (160, 3172), (162, 3181), (163, 3184), (174, 3217), (183, 3238), (196, 3280), (209, 3319), (212, 3331), (213, 3334), (224, 3391), (225, 3394), (226, 3400), (229, 3415), (236, 3445), (237, 3451), (251, 3529), (275, 3610), (286, 3664), (293, 3709), (296, 3724), (310, 3796), (323, 3841), (325, 3847), (350, 3955), (352, 3964), (354, 3973), (360, 4003), (365, 4018), (371, 4045),

Gene: Jablanski_3 Start: 2281, Stop: 3729, Start Num: 33

Candidate Starts for Jablanski_3:

(13, 2128), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (128, 2605), (187, 2815), (211, 2893), (218, 2926), (231, 2989), (234, 2998), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3676),

Gene: JacoRen57_3 Start: 2321, Stop: 3976, Start Num: 35

Candidate Starts for JacoRen57_3:

(Start: 35 @2321 has 1 MA's), (48, 2336), (49, 2339), (92, 2489), (100, 2531), (105, 2552), (115, 2669), (127, 2738), (163, 2894), (176, 2927), (181, 2942), (215, 3062), (234, 3146), (275, 3308), (295, 3416), (324, 3539), (325, 3542), (333, 3572), (346, 3608), (379, 3758), (400, 3806), (410, 3857),

Gene: Jamzy_8 Start: 3189, Stop: 4634, Start Num: 59

Candidate Starts for Jamzy_8:

(25, 3096), (Start: 59 @3189 has 60 MA's), (64, 3204), (91, 3306), (96, 3327), (101, 3357), (110, 3393), (118, 3420), (127, 3462), (134, 3492), (138, 3507), (141, 3522), (164, 3621), (178, 3657), (209, 3753), (224, 3825), (228, 3843), (229, 3849), (234, 3867), (235, 3873), (265, 4017), (288, 4116), (331, 4314), (334, 4323), (352, 4392), (363, 4437), (374, 4497), (379, 4509), (412, 4623),

Gene: Jane_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Jane_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Jankie_3 Start: 1980, Stop: 3407, Start Num: 38

Candidate Starts for Jankie_3:

(Start: 38 @1980 has 3 MA's), (74, 2073), (93, 2148), (96, 2160), (139, 2346), (153, 2409), (173, 2481), (225, 2658), (231, 2688), (241, 2739), (257, 2817), (271, 2862), (278, 2889), (279, 2895), (297, 3009), (324, 3102), (335, 3147), (360, 3255),

Gene: Jeilious_3 Start: 1887, Stop: 3401, Start Num: 26

Candidate Starts for Jeilious_3:

(1, 1320), (6, 1488), (7, 1503), (10, 1632), (Start: 26 @1887 has 69 MA's), (58, 1950), (Start: 59 @1953 has 60 MA's), (61, 1962), (96, 2094), (129, 2241), (130, 2244), (151, 2334), (160, 2373), (163, 2385), (185, 2448), (187, 2454), (202, 2496), (212, 2529), (225, 2592), (234, 2631), (241, 2673), (249, 2718), (256, 2742), (257, 2751), (275, 2808), (281, 2850), (287, 2868), (288, 2871), (319, 3027), (344, 3117), (351, 3153), (363, 3204), (368, 3228),

Gene: JoieB_37 Start: 12883, Stop: 14448, Start Num: 22

Candidate Starts for JoieB_37:

(Start: 22 @12883 has 19 MA's), (Start: 59 @13000 has 60 MA's), (90, 13120), (100, 13165), (102, 13174), (125, 13264), (135, 13312), (136, 13315), (148, 13357), (149, 13360), (154, 13384), (175, 13456), (176, 13459), (191, 13498), (197, 13519), (198, 13522), (210, 13567), (229, 13657), (231, 13666), (234, 13675), (241, 13717), (242, 13720), (248, 13759), (259, 13801), (261, 13807), (262, 13810), (273, 13855), (288, 13924), (303, 14023), (307, 14035), (336, 14134), (351, 14200), (357, 14221), (359, 14236), (386, 14329), (393, 14344),

Gene: Jolene_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Jolene_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Jolie2_3 Start: 1947, Stop: 3434, Start Num: 26

Candidate Starts for Jolie2_3:

(12, 1812), (14, 1818), (Start: 26 @1947 has 69 MA's), (58, 2013), (81, 2103), (96, 2157), (127, 2301), (129, 2307), (132, 2322), (149, 2388), (160, 2439), (162, 2448), (187, 2520), (209, 2586), (213, 2601), (234, 2700), (237, 2718), (241, 2742), (254, 2805), (275, 2877), (281, 2919), (288, 2940), (316, 3084), (319, 3096), (351, 3222), (363, 3273), (409, 3408),

Gene: Jonghyun_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Jonghyun_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: JorRay_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for JorRay_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Kamaru_4 Start: 2189, Stop: 3625, Start Num: 41

Candidate Starts for Kamaru_4:

(Start: 41 @2189 has 32 MA's), (75, 2291), (87, 2342), (100, 2399), (102, 2408), (120, 2480), (131, 2534), (140, 2567), (149, 2603), (163, 2666), (200, 2774), (209, 2801), (212, 2813), (213, 2816), (225, 2876), (226, 2882), (236, 2927), (237, 2933), (242, 2960), (244, 2978), (251, 3011), (266, 3062), (275, 3092), (286, 3146), (291, 3176), (296, 3206), (325, 3329), (348, 3422), (350, 3437), (359, 3479), (365, 3500), (371, 3527), (386, 3560), (396, 3587),

Gene: Kareem_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Kareem_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Kasen3_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Kasen3_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: KayGee_5 Start: 2579, Stop: 4012, Start Num: 59

Candidate Starts for KayGee_5:

(Start: 59 @2579 has 60 MA's), (65, 2603), (89, 2693), (100, 2747), (101, 2753), (110, 2789), (111, 2795), (121, 2825), (124, 2843), (137, 2900), (153, 2969), (160, 3002), (211, 3158), (222, 3209), (228, 3239), (234, 3263), (241, 3305), (256, 3374), (260, 3392), (272, 3440), (288, 3512), (325, 3683), (334, 3716), (350, 3776), (355, 3797), (363, 3830), (374, 3890), (375, 3893), (412, 4004),

Gene: Keiki_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for Keiki_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (117, 2126), (120, 2135), (128, 2174), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (163, 2315), (164, 2318), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (199, 2414), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (275, 2708), (277, 2723), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (321, 2930), (326, 2945), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: Kenna_4 Start: 2191, Stop: 3627, Start Num: 41

Candidate Starts for Kenna_4:

(Start: 41 @2191 has 32 MA's), (61, 2245), (73, 2281), (75, 2293), (83, 2332), (84, 2335), (102, 2410), (120, 2482), (126, 2512), (131, 2536), (136, 2557), (149, 2605), (165, 2674), (179, 2716), (207, 2794), (212, 2815), (213, 2818), (225, 2878), (231, 2908), (233, 2911), (236, 2929), (237, 2935), (242, 2962), (244, 2980), (251, 3013), (269, 3079), (275, 3094), (286, 3148), (291, 3178), (296, 3208), (302, 3256), (316, 3301), (325, 3331), (348, 3424), (350, 3439), (365, 3502), (386, 3562), (396, 3589), (398, 3592),

Gene: Kubed_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for Kubed_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (117, 2126), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (164, 2318), (165, 2321), (175, 2345), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (201, 2420), (206, 2438), (207, 2441), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (243, 2615), (253, 2648), (254, 2651), (256, 2657), (257, 2666), (275, 2708), (277, 2723), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (335, 2984), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: Kuwabara_3 Start: 2144, Stop: 3622, Start Num: 33

Candidate Starts for Kuwabara_3:

(Start: 33 @2144 has 28 MA's), (48, 2177), (51, 2186), (64, 2225), (71, 2246), (72, 2249), (73, 2252), (91, 2330), (94, 2342), (97, 2354), (100, 2375), (119, 2441), (145, 2561), (147, 2567), (149, 2573), (154, 2597), (163, 2636), (189, 2705), (193, 2717), (200, 2735), (201, 2738), (207, 2759), (209, 2768), (213, 2783), (214, 2786), (218, 2810), (229, 2864), (234, 2882), (242, 2927), (246, 2954), (250, 2972), (273, 3065), (288, 3134), (295, 3179), (303, 3233), (315, 3269), (325, 3305), (335, 3344), (337, 3350), (355, 3425), (356, 3428), (359, 3446), (402, 3569),

Gene: LastNadiia_8 Start: 5135, Stop: 6613, Start Num: 39

Candidate Starts for LastNadiia_8:

(Start: 39 @5135 has 2 MA's), (79, 5261), (84, 5282), (137, 5507), (139, 5513), (150, 5561), (191, 5696), (222, 5810), (225, 5825), (234, 5864), (256, 5975), (279, 6050), (281, 6068), (282, 6071), (293, 6125), (297, 6164), (319, 6242), (363, 6410), (367, 6428), (379, 6482), (414, 6596),

Gene: Lauchelly_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for Lauchelly_3:

(Start: 52 @1886 has 45 MA's), (56, 1892), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (97, 2045), (100, 2066), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (163, 2315), (164, 2318), (175, 2345), (181, 2363), (185, 2375), (190, 2387), (211, 2459), (214, 2468), (235, 2570), (253, 2648), (254, 2651), (256, 2657), (257, 2666), (275, 2708), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (321, 2930), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (370, 3122), (373, 3134), (381, 3164), (385, 3173),

Gene: Lauer_4 Start: 2631, Stop: 4064, Start Num: 59

Candidate Starts for Lauer_4:

(Start: 59 @2631 has 60 MA's), (65, 2655), (72, 2676), (100, 2799), (101, 2805), (110, 2841), (121, 2877), (124, 2895), (131, 2928), (137, 2952), (153, 3021), (160, 3054), (211, 3210), (222, 3261), (228, 3291), (234, 3315), (241, 3357), (256, 3426), (260, 3444), (272, 3492), (288, 3564), (325, 3735), (334, 3768), (350, 3828), (355, 3849), (363, 3882), (374, 3942), (375, 3945), (412, 4056),

Gene: Lemuria_3 Start: 1956, Stop: 3443, Start Num: 26

Candidate Starts for Lemuria_3:

(12, 1821), (Start: 26 @1956 has 69 MA's), (77, 2091), (96, 2166), (129, 2316), (132, 2331), (160, 2448), (162, 2457), (213, 2607), (218, 2634), (233, 2700), (234, 2706), (237, 2724), (254, 2811), (257, 2826), (275, 2883), (281, 2925), (288, 2946), (298, 3027), (316, 3090), (319, 3102), (351, 3228),

Gene: Leroy_4 Start: 2192, Stop: 3628, Start Num: 41

Candidate Starts for Leroy_4:

(Start: 41 @2192 has 32 MA's), (73, 2282), (83, 2333), (84, 2336), (109, 2441), (120, 2483), (126, 2513), (131, 2537), (140, 2570), (200, 2777), (225, 2879), (226, 2885), (231, 2909), (236, 2930), (237, 2936), (242, 2963), (244, 2981), (251, 3014), (266, 3065), (275, 3095), (286, 3149), (291, 3179), (296, 3209), (325, 3332), (348, 3425), (350, 3440), (365, 3503), (386, 3563), (396, 3590),

Gene: Leviosa_3 Start: 1888, Stop: 3213, Start Num: 52

Candidate Starts for Leviosa_3:

(Start: 52 @1888 has 45 MA's), (56, 1894), (Start: 59 @1903 has 60 MA's), (64, 1921), (71, 1942), (82, 1993), (84, 2002), (86, 2008), (94, 2035), (97, 2047), (100, 2068), (102, 2077), (117, 2128), (120, 2137), (128, 2176), (130, 2182), (134, 2203), (136, 2212), (163, 2317), (164, 2320), (175, 2347), (180, 2362), (181, 2365), (185, 2377), (210, 2458), (211, 2461), (214, 2470), (231, 2557), (233, 2560), (235, 2572), (241, 2608), (243, 2617), (253, 2650), (254, 2653), (256, 2659), (257, 2668), (262, 2677), (275, 2710), (282, 2755), (288, 2773), (297, 2848), (303, 2872), (321, 2932), (335, 2986), (337, 2992), (349, 3043), (361, 3091), (362, 3094), (365, 3100), (366, 3103), (367, 3109), (369, 3118), (372, 3133), (373, 3136), (381, 3166),

Gene: Liefie_3 Start: 1887, Stop: 3401, Start Num: 26

Candidate Starts for Liefie_3:

(1, 1320), (6, 1488), (7, 1503), (10, 1632), (Start: 26 @1887 has 69 MA's), (58, 1950), (Start: 59 @1953 has 60 MA's), (61, 1962), (96, 2094), (129, 2241), (130, 2244), (151, 2334), (160, 2373), (192, 2466), (212, 2529), (225, 2592), (234, 2631), (241, 2673), (249, 2718), (256, 2742), (257, 2751), (275, 2808), (281, 2850), (287, 2868), (288, 2871), (319, 3027), (351, 3153), (363, 3204),

Gene: LilBandit_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for LilBandit_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (206, 2438), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (291, 2792), (297, 2846), (303, 2870), (335, 2984), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: LilSpotty_3 Start: 1782, Stop: 3245, Start Num: 33

Candidate Starts for LilSpotty_3:

(Start: 33 @1782 has 28 MA's), (48, 1818), (54, 1833), (66, 1872), (68, 1878), (70, 1884), (71, 1887), (91, 1971), (93, 1980), (96, 1992), (97, 1995), (100, 2016), (112, 2070), (120, 2085), (121, 2088), (125, 2109), (130, 2130), (147, 2202), (154, 2232), (176, 2307), (183, 2322), (196, 2364), (201, 2373), (210, 2409), (213, 2418), (214, 2421), (234, 2517), (244, 2580), (246, 2589), (262, 2652), (275, 2706), (282, 2751), (302, 2865), (303, 2868), (315, 2904), (324, 2937), (337, 2985), (350, 3039), (355, 3060), (370, 3126), (376, 3153), (383, 3162), (386, 3165), (391, 3174), (409, 3222),

Gene: Lilas_3 Start: 2281, Stop: 3735, Start Num: 33

Candidate Starts for Lilas_3:

(13, 2128), (16, 2188), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (130, 2611), (131, 2620), (174, 2779), (179, 2794), (187, 2815), (209, 2884), (211, 2893), (218, 2926), (231, 2989), (234, 2998), (253, 3100), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3682),

Gene: Lilbit_35 Start: 12860, Stop: 14425, Start Num: 22

Candidate Starts for Lilbit_35:

(Start: 22 @12860 has 19 MA's), (Start: 59 @12977 has 60 MA's), (90, 13097), (100, 13142), (102, 13151), (125, 13241), (135, 13289), (136, 13292), (148, 13334), (149, 13337), (154, 13361), (175, 13433), (176, 13436), (191, 13475), (197, 13496), (198, 13499), (210, 13544), (229, 13634), (231, 13643), (234, 13652), (241, 13694), (242, 13697), (248, 13736), (259, 13778), (261, 13784), (262, 13787), (273, 13832), (288, 13901), (303, 14000), (307, 14012), (336, 14111), (351, 14177), (357,

14198), (359, 14213), (386, 14306), (393, 14321),

Gene: LisoBros_3 Start: 1958, Stop: 3604, Start Num: 38

Candidate Starts for LisoBros_3:

(Start: 38 @1958 has 3 MA's), (61, 2009), (64, 2018), (74, 2054), (88, 2111), (92, 2123), (93, 2129), (141, 2339), (145, 2360), (153, 2390), (155, 2399), (156, 2402), (165, 2441), (187, 2501), (189, 2504), (203, 2546), (213, 2579), (225, 2639), (231, 2669), (241, 2720), (242, 2723), (257, 2798), (271, 2843), (278, 2870), (279, 2876), (281, 2894), (285, 2906), (288, 2915), (297, 2990), (303, 3014), (317, 3059), (324, 3083), (328, 3107), (332, 3119), (335, 3128), (350, 3188), (411, 3413),

Gene: LitninMcQueen_4 Start: 2189, Stop: 3625, Start Num: 41

Candidate Starts for LitninMcQueen_4:

(Start: 41 @2189 has 32 MA's), (75, 2291), (87, 2342), (100, 2399), (102, 2408), (120, 2480), (131, 2534), (140, 2567), (149, 2603), (163, 2666), (200, 2774), (209, 2801), (212, 2813), (213, 2816), (225, 2876), (226, 2882), (236, 2927), (237, 2933), (242, 2960), (244, 2978), (251, 3011), (266, 3062), (275, 3092), (286, 3146), (291, 3176), (296, 3206), (325, 3329), (348, 3422), (350, 3437), (359, 3479), (365, 3500), (371, 3527), (386, 3560), (396, 3587),

Gene: LittleLaf_36 Start: 12589, Stop: 14154, Start Num: 22

Candidate Starts for LittleLaf_36:

(Start: 22 @12589 has 19 MA's), (Start: 59 @12706 has 60 MA's), (90, 12826), (100, 12871), (102, 12880), (125, 12970), (135, 13018), (136, 13021), (148, 13063), (149, 13066), (154, 13090), (175, 13162), (176, 13165), (191, 13204), (197, 13225), (198, 13228), (210, 13273), (229, 13363), (231, 13372), (234, 13381), (241, 13423), (242, 13426), (248, 13465), (259, 13507), (261, 13513), (262, 13516), (273, 13561), (288, 13630), (303, 13729), (307, 13741), (336, 13840), (351, 13906), (357, 13927), (359, 13942), (386, 14035), (393, 14050),

Gene: LonelyBoi_3 Start: 2281, Stop: 3729, Start Num: 33

Candidate Starts for LonelyBoi_3:

(13, 2128), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (117, 2557), (128, 2605), (174, 2779), (187, 2815), (209, 2884), (210, 2890), (211, 2893), (231, 2989), (234, 2998), (253, 3100), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (302, 3337), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3676),

Gene: LongHai_7 Start: 3761, Stop: 5284, Start Num: 45

Candidate Starts for LongHai_7:

(21, 3677), (Start: 45 @3761 has 2 MA's), (50, 3776), (64, 3818), (88, 3911), (92, 3923), (101, 3971), (105, 3986), (116, 4049), (117, 4061), (122, 4076), (132, 4127), (136, 4145), (160, 4256), (234, 4520), (245, 4589), (255, 4628), (295, 4790), (300, 4829), (318, 4895), (324, 4913), (350, 5006), (352, 5015), (353, 5021),

Gene: LouisV14_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for LouisV14_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Lucky10_3 Start: 1755, Stop: 3197, Start Num: 44

Candidate Starts for Lucky10_3:

(Start: 44 @1755 has 3 MA's), (61, 1806), (88, 1908), (96, 1938), (100, 1962), (103, 1974), (130, 2088), (177, 2271), (186, 2295), (187, 2298), (200, 2328), (213, 2370), (225, 2427), (236, 2478), (237, 2484),

(241, 2508), (244, 2529), (249, 2553), (255, 2574), (275, 2640), (323, 2871), (330, 2898), (335, 2919), (342, 2943), (354, 2997), (359, 3021), (363, 3033), (386, 3102), (401, 3135),

Gene: LunaStella_3 Start: 2233, Stop: 3708, Start Num: 33

Candidate Starts for LunaStella_3:

(Start: 33 @2233 has 28 MA's), (37, 2245), (46, 2266), (54, 2287), (93, 2434), (96, 2446), (99, 2467), (100, 2470), (117, 2530), (123, 2557), (125, 2563), (130, 2584), (145, 2656), (146, 2659), (147, 2662), (149, 2668), (154, 2692), (158, 2710), (170, 2752), (175, 2764), (176, 2767), (189, 2800), (196, 2824), (200, 2830), (209, 2863), (210, 2869), (218, 2905), (224, 2935), (225, 2938), (226, 2944), (231, 2968), (234, 2977), (242, 3022), (244, 3040), (246, 3049), (262, 3112), (267, 3133), (273, 3160), (282, 3211), (289, 3232), (293, 3265), (295, 3274), (302, 3325), (303, 3328), (315, 3364), (323, 3394), (324, 3397), (331, 3427), (337, 3445), (355, 3520), (359, 3541), (370, 3586), (390, 3634),

Gene: Lutum_4 Start: 2191, Stop: 3627, Start Num: 41

Candidate Starts for Lutum_4:

(Start: 41 @2191 has 32 MA's), (61, 2245), (73, 2281), (75, 2293), (83, 2332), (84, 2335), (102, 2410), (120, 2482), (126, 2512), (131, 2536), (136, 2557), (149, 2605), (165, 2674), (179, 2716), (207, 2794), (212, 2815), (213, 2818), (225, 2878), (231, 2908), (233, 2911), (236, 2929), (237, 2935), (242, 2962), (244, 2980), (251, 3013), (269, 3079), (275, 3094), (286, 3148), (291, 3178), (296, 3208), (302, 3256), (316, 3301), (325, 3331), (348, 3424), (350, 3439), (365, 3502), (386, 3562), (396, 3589), (398, 3592),

Gene: MAnor_5 Start: 2570, Stop: 4018, Start Num: 59

Candidate Starts for MAnor_5:

(Start: 59 @2570 has 60 MA's), (65, 2600), (68, 2609), (100, 2744), (101, 2750), (110, 2786), (121, 2822), (124, 2840), (131, 2873), (137, 2897), (153, 2966), (160, 2999), (211, 3155), (222, 3206), (228, 3236), (234, 3260), (241, 3302), (256, 3371), (272, 3437), (288, 3509), (325, 3680), (334, 3713), (350, 3773), (355, 3794), (363, 3827), (374, 3887), (375, 3890), (412, 4001),

Gene: MEAK_3 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for MEAK_3:

(Start: 52 @1881 has 45 MA's), (56, 1887), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (84, 1995), (86, 2001), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (117, 2121), (120, 2130), (128, 2169), (130, 2175), (134, 2196), (136, 2205), (160, 2298), (163, 2310), (164, 2313), (175, 2340), (181, 2358), (185, 2370), (201, 2415), (206, 2433), (207, 2436), (211, 2454), (214, 2463), (229, 2541), (233, 2553), (235, 2565), (241, 2601), (243, 2610), (256, 2652), (257, 2661), (262, 2670), (275, 2703), (282, 2748), (285, 2757), (288, 2766), (297, 2841), (303, 2865), (321, 2925), (326, 2940), (337, 2985), (349, 3036), (356, 3063), (361, 3084), (362, 3087), (365, 3093), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: MOOREtheMARYer_3 Start: 1934, Stop: 3484, Start Num: 26

Candidate Starts for MOOREtheMARYer_3:

(Start: 26 @1934 has 69 MA's), (49, 1985), (Start: 59 @2012 has 60 MA's), (129, 2300), (151, 2399), (160, 2438), (210, 2588), (219, 2627), (232, 2687), (234, 2696), (240, 2732), (249, 2783), (275, 2873), (281, 2915), (287, 2933), (325, 3110), (359, 3257), (377, 3332), (379, 3338), (406, 3401),

Gene: MScarn_7 Start: 2787, Stop: 4241, Start Num: 59

Candidate Starts for MScarn_7:

(Start: 59 @2787 has 60 MA's), (65, 2811), (94, 2925), (96, 2934), (132, 3090), (134, 3099), (153, 3180), (200, 3327), (211, 3369), (228, 3450), (233, 3468), (234, 3474), (280, 3702), (288, 3729), (293, 3765), (317, 3873), (323, 3894), (356, 4017), (363, 4047), (374, 4107), (375, 4110), (412, 4218),

Gene: MZKinsey_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for MZKinsey_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: MaVan_7 Start: 3686, Stop: 5131, Start Num: 59

Candidate Starts for MaVan_7:

(Start: 59 @3686 has 60 MA's), (62, 3698), (64, 3704), (76, 3746), (82, 3776), (100, 3854), (120, 3923), (153, 4070), (203, 4229), (210, 4259), (213, 4268), (228, 4343), (234, 4367), (235, 4373), (253, 4469), (257, 4487), (265, 4517), (275, 4553), (288, 4616), (295, 4661), (315, 4751), (318, 4766), (322, 4778), (325, 4787), (331, 4811), (350, 4880), (359, 4922), (363, 4934), (364, 4937), (378, 5003), (384, 5009),

Gene: Maco6_4 Start: 2715, Stop: 4238, Start Num: 45

Candidate Starts for Maco6_4:

(21, 2631), (Start: 45 @2715 has 2 MA's), (50, 2730), (64, 2772), (88, 2865), (92, 2877), (99, 2916), (101, 2925), (105, 2940), (116, 3003), (117, 3015), (122, 3030), (132, 3081), (136, 3099), (160, 3210), (234, 3474), (245, 3543), (255, 3582), (295, 3744), (300, 3783), (318, 3849), (324, 3867), (350, 3960), (353, 3975),

Gene: Makima_6 Start: 4251, Stop: 5723, Start Num: 38

Candidate Starts for Makima_6:

(Start: 38 @4251 has 3 MA's), (84, 4401), (105, 4488), (125, 4572), (139, 4632), (166, 4743), (183, 4785), (225, 4938), (234, 4977), (256, 5088), (257, 5097), (279, 5163), (281, 5181), (297, 5277), (304, 5304), (319, 5355), (323, 5367), (359, 5511), (363, 5523), (379, 5595), (395, 5625), (414, 5709),

Gene: Maliketh_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Maliketh_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Malisha_4 Start: 2187, Stop: 3626, Start Num: 41

Candidate Starts for Malisha_4:

(Start: 41 @2187 has 32 MA's), (47, 2202), (83, 2331), (84, 2334), (95, 2373), (102, 2409), (120, 2481), (131, 2535), (149, 2604), (165, 2673), (175, 2703), (177, 2709), (179, 2715), (207, 2793), (212, 2814), (213, 2817), (225, 2877), (226, 2883), (229, 2898), (231, 2907), (233, 2910), (236, 2928), (237, 2934), (242, 2961), (244, 2979), (251, 3012), (266, 3063), (275, 3093), (286, 3147), (291, 3177), (296, 3207), (325, 3330), (350, 3438), (359, 3480), (365, 3501), (386, 3561), (396, 3588),

Gene: Malvina_7 Start: 3563, Stop: 5011, Start Num: 59

Candidate Starts for Malvina_7:

(25, 3470), (Start: 59 @3563 has 60 MA's), (74, 3617), (76, 3623), (100, 3731), (101, 3737), (120, 3800), (143, 3902), (153, 3947), (175, 4025), (200, 4097), (209, 4130), (210, 4136), (228, 4220), (234, 4244), (235, 4250), (245, 4313), (272, 4421), (288, 4493), (295, 4538), (315, 4628), (318, 4643), (322, 4655), (325, 4664), (335, 4700), (350, 4757), (359, 4799), (364, 4814), (378, 4880), (412, 4985),

Gene: Margaret_8 Start: 3559, Stop: 5004, Start Num: 59

Candidate Starts for Margaret_8:

(Start: 59 @3559 has 60 MA's), (64, 3574), (91, 3676), (96, 3697), (97, 3700), (110, 3763), (118, 3790), (127, 3832), (134, 3862), (136, 3871), (147, 3919), (164, 3991), (178, 4027), (209, 4123), (224, 4195),

(228, 4213), (229, 4219), (234, 4237), (235, 4243), (265, 4387), (288, 4486), (331, 4684), (334, 4693), (352, 4762), (363, 4807), (374, 4867), (379, 4879), (412, 4993),

Gene: Marmie_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Marmie_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Marteena_3 Start: 2281, Stop: 3735, Start Num: 33

Candidate Starts for Marteena_3:

(13, 2128), (16, 2188), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (130, 2611), (131, 2620), (174, 2779), (179, 2794), (187, 2815), (209, 2884), (211, 2893), (218, 2926), (231, 2989), (234, 2998), (253, 3100), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3682),

Gene: Marvin_34 Start: 12859, Stop: 14424, Start Num: 22

Candidate Starts for Marvin_34:

(Start: 22 @12859 has 19 MA's), (Start: 59 @12976 has 60 MA's), (60, 12982), (90, 13096), (100, 13141), (102, 13150), (125, 13240), (135, 13288), (136, 13291), (148, 13333), (149, 13336), (154, 13360), (175, 13432), (176, 13435), (191, 13474), (197, 13495), (198, 13498), (210, 13543), (229, 13633), (231, 13642), (234, 13651), (241, 13693), (242, 13696), (248, 13735), (259, 13777), (261, 13783), (262, 13786), (273, 13831), (288, 13900), (303, 13999), (307, 14011), (336, 14110), (351, 14176), (357, 14197), (359, 14212), (386, 14305), (393, 14320),

Gene: Mayweather_6 Start: 3191, Stop: 4639, Start Num: 59

Candidate Starts for Mayweather_6:

(Start: 59 @3191 has 60 MA's), (65, 3221), (85, 3299), (100, 3365), (101, 3371), (110, 3407), (121, 3443), (137, 3518), (153, 3587), (160, 3620), (161, 3626), (175, 3662), (210, 3773), (211, 3776), (213, 3782), (228, 3857), (233, 3875), (234, 3881), (241, 3923), (256, 3992), (272, 4058), (288, 4130), (325, 4301), (334, 4334), (350, 4394), (351, 4400), (355, 4415), (363, 4448), (374, 4508), (375, 4511), (412, 4622),

Gene: McDazzle_4 Start: 3038, Stop: 4483, Start Num: 59

Candidate Starts for McDazzle_4:

(27, 2951), (Start: 59 @3038 has 60 MA's), (65, 3068), (85, 3146), (89, 3158), (101, 3218), (110, 3254), (121, 3290), (137, 3365), (153, 3434), (160, 3467), (161, 3473), (175, 3509), (210, 3620), (211, 3623), (213, 3629), (222, 3674), (228, 3704), (233, 3722), (234, 3728), (241, 3770), (288, 3977), (325, 4148), (334, 4181), (350, 4241), (351, 4247), (355, 4262), (363, 4295), (374, 4355), (375, 4358), (412, 4466),

Gene: Mendokysei_3 Start: 2531, Stop: 4096, Start Num: 24

Candidate Starts for Mendokysei_3:

(Start: 24 @2531 has 7 MA's), (28, 2549), (61, 2639), (80, 2717), (96, 2777), (107, 2831), (110, 2843), (117, 2873), (131, 2936), (136, 2957), (140, 2969), (144, 2981), (146, 2993), (153, 3020), (186, 3137), (193, 3155), (212, 3224), (220, 3263), (221, 3269), (222, 3272), (233, 3320), (239, 3356), (262, 3455), (265, 3470), (289, 3554), (299, 3635), (311, 3677), (313, 3683), (319, 3707), (355, 3839), (386, 3953), (415, 4064),

Gene: Mercurio_4 Start: 2602, Stop: 4089, Start Num: 26

Candidate Starts for Mercurio_4:

(12, 2467), (Start: 26 @2602 has 69 MA's), (81, 2758), (96, 2812), (129, 2962), (130, 2965), (160, 3094), (187, 3175), (209, 3238), (233, 3346), (234, 3352), (237, 3370), (249, 3439), (254, 3457), (257, 3472), (275, 3529), (281, 3571), (288, 3592), (298, 3673), (319, 3748), (351, 3874),

Gene: Merpity_4 Start: 1758, Stop: 3161, Start Num: 36

Candidate Starts for Merpity_4:

(Start: 36 @1758 has 4 MA's), (55, 1809), (Start: 59 @1821 has 60 MA's), (64, 1839), (65, 1842), (74, 1875), (92, 1944), (98, 1980), (100, 1986), (104, 2001), (108, 2022), (110, 2028), (117, 2055), (125, 2088), (126, 2094), (134, 2130), (135, 2136), (160, 2238), (167, 2262), (168, 2265), (172, 2271), (179, 2295), (185, 2310), (186, 2313), (224, 2451), (225, 2454), (228, 2469), (234, 2493), (241, 2535), (243, 2544), (247, 2568), (256, 2598), (271, 2640), (275, 2649), (276, 2658), (279, 2673), (281, 2691), (292, 2739), (302, 2808), (324, 2883), (350, 2988), (351, 2994), (357, 3015), (359, 3030), (371, 3075),

Gene: Mireles_5 Start: 2660, Stop: 4129, Start Num: 38

Candidate Starts for Mireles_5:

(Start: 38 @2660 has 3 MA's), (68, 2741), (84, 2810), (102, 2885), (105, 2897), (125, 2981), (139, 3041), (186, 3203), (225, 3344), (234, 3383), (256, 3494), (257, 3503), (278, 3563), (279, 3569), (281, 3587), (297, 3683), (304, 3710), (319, 3761), (323, 3773), (356, 3899), (359, 3917), (363, 3929), (379, 4001), (414, 4115),

Gene: Morkie_3 Start: 1754, Stop: 3208, Start Num: 44

Candidate Starts for Morkie_3:

(Start: 44 @1754 has 3 MA's), (54, 1781), (67, 1823), (81, 1883), (88, 1907), (96, 1937), (114, 2027), (120, 2042), (130, 2087), (134, 2108), (137, 2120), (149, 2165), (165, 2234), (179, 2276), (191, 2306), (209, 2357), (225, 2432), (236, 2483), (241, 2513), (249, 2558), (256, 2582), (269, 2630), (275, 2645), (303, 2810), (319, 2864), (320, 2867), (354, 3002), (363, 3038), (401, 3143),

Gene: MortyNRick_3 Start: 2144, Stop: 3622, Start Num: 33

Candidate Starts for MortyNRick_3:

(Start: 33 @2144 has 28 MA's), (48, 2177), (51, 2186), (64, 2225), (71, 2246), (72, 2249), (73, 2252), (94, 2342), (96, 2351), (97, 2354), (119, 2441), (120, 2444), (131, 2498), (143, 2546), (145, 2561), (149, 2573), (154, 2597), (163, 2636), (183, 2687), (189, 2705), (200, 2735), (201, 2738), (207, 2759), (209, 2768), (213, 2783), (214, 2786), (218, 2810), (231, 2873), (234, 2882), (242, 2927), (244, 2945), (246, 2954), (263, 3023), (273, 3065), (295, 3179), (303, 3233), (315, 3269), (325, 3305), (335, 3344), (337, 3350), (355, 3425), (356, 3428), (359, 3446), (402, 3569),

Gene: MosMoris_34 Start: 12039, Stop: 13604, Start Num: 22

Candidate Starts for MosMoris_34:

(Start: 22 @12039 has 19 MA's), (Start: 59 @12156 has 60 MA's), (90, 12276), (100, 12321), (102, 12330), (125, 12420), (135, 12468), (136, 12471), (148, 12513), (149, 12516), (154, 12540), (175, 12612), (176, 12615), (191, 12654), (197, 12675), (198, 12678), (210, 12723), (229, 12813), (231, 12822), (234, 12831), (241, 12873), (242, 12876), (248, 12915), (259, 12957), (261, 12963), (262, 12966), (273, 13011), (288, 13080), (303, 13179), (307, 13191), (336, 13290), (351, 13356), (357, 13377), (359, 13392), (386, 13485), (393, 13500),

Gene: Mowgli_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Mowgli_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Moyashi_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for Moyashi_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (205, 2432), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (253, 2648), (254, 2651), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (277, 2723), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (326, 2945), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: MrAK_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for MrAK_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (117, 2126), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (205, 2432), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (253, 2648), (254, 2651), (256, 2657), (257, 2666), (275, 2708), (277, 2723), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (321, 2930), (326, 2945), (335, 2984), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: MrSmee_3 Start: 1758, Stop: 3161, Start Num: 36

Candidate Starts for MrSmee_3:

(Start: 36 @1758 has 4 MA's), (55, 1809), (Start: 59 @1821 has 60 MA's), (64, 1839), (65, 1842), (74, 1875), (92, 1944), (98, 1980), (100, 1986), (104, 2001), (108, 2022), (110, 2028), (117, 2055), (125, 2088), (126, 2094), (134, 2130), (135, 2136), (160, 2238), (167, 2262), (168, 2265), (172, 2271), (179, 2295), (185, 2310), (186, 2313), (224, 2451), (225, 2454), (228, 2469), (234, 2493), (241, 2535), (243, 2544), (247, 2568), (256, 2598), (271, 2640), (275, 2649), (276, 2658), (279, 2673), (281, 2691), (302, 2808), (324, 2883), (350, 2988), (351, 2994), (357, 3015), (359, 3030), (371, 3075), (392, 3132),

Gene: Muddy_6 Start: 3669, Stop: 5192, Start Num: 45

Candidate Starts for Muddy_6:

(21, 3585), (Start: 45 @3669 has 2 MA's), (50, 3684), (64, 3726), (88, 3819), (92, 3831), (99, 3870), (101, 3879), (105, 3894), (116, 3957), (117, 3969), (122, 3984), (132, 4035), (136, 4053), (160, 4164), (234, 4428), (245, 4497), (255, 4536), (295, 4698), (300, 4737), (318, 4803), (324, 4821), (350, 4914), (353, 4929),

Gene: MunkgeeRoachy_5 Start: 2837, Stop: 4294, Start Num: 59

Candidate Starts for MunkgeeRoachy_5:

(Start: 59 @2837 has 60 MA's), (65, 2861), (93, 2972), (94, 2975), (96, 2984), (113, 3065), (134, 3149), (137, 3161), (153, 3230), (200, 3377), (211, 3419), (224, 3482), (228, 3500), (229, 3506), (233, 3518), (234, 3524), (256, 3635), (280, 3752), (288, 3779), (293, 3815), (323, 3944), (325, 3950), (334, 3983), (349, 4040), (350, 4043), (356, 4067), (363, 4097), (374, 4157), (375, 4160), (412, 4271),

Gene: Nairb_4 Start: 2624, Stop: 4189, Start Num: 24

Candidate Starts for Nairb_4:

(17, 2567), (18, 2576), (19, 2579), (Start: 24 @2624 has 7 MA's), (28, 2642), (61, 2732), (63, 2741), (67, 2753), (96, 2870), (107, 2924), (110, 2936), (114, 2960), (133, 3035), (136, 3050), (140, 3062), (144, 3074), (153, 3113), (186, 3230), (190, 3239), (193, 3248), (207, 3296), (212, 3317), (221, 3362), (222, 3365), (233, 3413), (239, 3449), (249, 3506), (265, 3563), (289, 3647), (291, 3665), (299, 3728), (311, 3770), (319, 3800), (355, 3932), (367, 3983), (386, 4046), (391, 4055),

Gene: Nebkiss_3 Start: 3367, Stop: 4800, Start Num: 31

Candidate Starts for Nebkiss_3:

(Start: 31 @3367 has 2 MA's), (Start: 42 @3397 has 1 MA's), (46, 3406), (54, 3424), (92, 3562), (97, 3583), (101, 3610), (102, 3613), (114, 3673), (120, 3688), (121, 3691), (124, 3709), (125, 3712), (126, 3718), (138, 3769), (145, 3805), (146, 3808), (151, 3829), (165, 3886), (173, 3913), (178, 3928), (184, 3943), (209, 4009), (216, 4042), (224, 4081), (225, 4084), (226, 4090), (229, 4105), (231, 4114), (234, 4123), (242, 4168), (244, 4186), (250, 4213), (282, 4330), (285, 4339), (288, 4348), (292, 4375), (293, 4384), (302, 4444), (309, 4468), (317, 4495), (323, 4516), (335, 4564), (349, 4621), (354, 4642), (357, 4651), (371, 4714), (373, 4723), (399, 4786),

Gene: Neoh_3 Start: 1889, Stop: 3403, Start Num: 26

Candidate Starts for Neoh_3:

(1, 1322), (6, 1490), (7, 1505), (10, 1634), (Start: 26 @1889 has 69 MA's), (58, 1952), (Start: 59 @1955 has 60 MA's), (61, 1964), (96, 2096), (129, 2243), (130, 2246), (151, 2336), (160, 2375), (163, 2387), (185, 2450), (187, 2456), (202, 2498), (212, 2531), (225, 2594), (234, 2633), (241, 2675), (249, 2720), (256, 2744), (257, 2753), (275, 2810), (281, 2852), (287, 2870), (288, 2873), (319, 3029), (344, 3119), (351, 3155), (363, 3206), (368, 3230),

Gene: Nette_4 Start: 2531, Stop: 4096, Start Num: 24

Candidate Starts for Nette_4:

(Start: 24 @2531 has 7 MA's), (28, 2549), (61, 2639), (80, 2717), (96, 2777), (107, 2831), (110, 2843), (117, 2873), (131, 2936), (136, 2957), (140, 2969), (144, 2981), (146, 2993), (153, 3020), (186, 3137), (193, 3155), (212, 3224), (220, 3263), (221, 3269), (222, 3272), (233, 3320), (239, 3356), (262, 3455), (265, 3470), (289, 3554), (299, 3635), (311, 3677), (313, 3683), (319, 3707), (355, 3839), (386, 3953), (415, 4064),

Gene: Neuville_5 Start: 2786, Stop: 4270, Start Num: 38

Candidate Starts for Neuville_5:

(Start: 38 @2786 has 3 MA's), (79, 2915), (84, 2936), (110, 3044), (137, 3161), (139, 3167), (151, 3224), (210, 3410), (225, 3479), (227, 3488), (234, 3518), (241, 3560), (256, 3629), (257, 3638), (279, 3704), (281, 3722), (282, 3725), (297, 3818), (319, 3896), (363, 4064), (395, 4166), (414, 4250),

Gene: Nibbles_7 Start: 3686, Stop: 5131, Start Num: 59

Candidate Starts for Nibbles_7:

(Start: 59 @3686 has 60 MA's), (62, 3698), (64, 3704), (76, 3746), (82, 3776), (100, 3854), (120, 3923), (153, 4070), (203, 4229), (210, 4259), (213, 4268), (228, 4343), (234, 4367), (235, 4373), (253, 4469), (257, 4487), (265, 4517), (275, 4553), (288, 4616), (295, 4661), (315, 4751), (318, 4766), (322, 4778), (325, 4787), (331, 4811), (350, 4880), (359, 4922), (363, 4934), (364, 4937), (378, 5003), (384, 5009),

Gene: Nina_5 Start: 2789, Stop: 4228, Start Num: 59

Candidate Starts for Nina_5:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4220),

Gene: NoShow_3 Start: 2343, Stop: 4004, Start Num: 36

Candidate Starts for NoShow_3:

(Start: 36 @2343 has 4 MA's), (49, 2376), (54, 2388), (75, 2460), (88, 2514), (92, 2526), (96, 2544), (100, 2568), (101, 2574), (127, 2769), (130, 2778), (176, 2961), (194, 3015), (215, 3096), (234, 3180), (295, 3450), (324, 3573), (346, 3642), (353, 3681), (379, 3792),

Gene: Nodigi_6 Start: 2788, Stop: 4230, Start Num: 59

Candidate Starts for Nodigi_6:

(Start: 59 @2788 has 60 MA's), (64, 2803), (91, 2905), (127, 3061), (132, 3082), (134, 3091), (147, 3148), (164, 3220), (209, 3352), (224, 3424), (228, 3442), (234, 3466), (235, 3472), (257, 3586), (264, 3613), (265, 3616), (288, 3715), (321, 3874), (325, 3886), (334, 3922), (337, 3931), (352, 3991), (359, 4024), (374, 4096), (381, 4111), (412, 4222),

Gene: ODay_4 Start: 2189, Stop: 3631, Start Num: 41

Candidate Starts for ODay_4:

(Start: 41 @2189 has 32 MA's), (75, 2291), (87, 2342), (100, 2399), (102, 2408), (120, 2480), (131, 2534), (140, 2567), (149, 2603), (163, 2666), (200, 2774), (209, 2801), (212, 2813), (213, 2816), (225, 2876), (226, 2882), (236, 2927), (237, 2933), (242, 2960), (244, 2978), (251, 3011), (266, 3062), (275, 3092), (286, 3146), (291, 3176), (296, 3206), (302, 3254), (325, 3329), (350, 3437), (354, 3455), (359, 3479), (363, 3491), (365, 3500), (371, 3527),

Gene: OctaviousRex_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for OctaviousRex_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Ogotopogo_5 Start: 2442, Stop: 3866, Start Num: 41

Candidate Starts for Ogotopogo_5:

(Start: 41 @2442 has 32 MA's), (54, 2475), (71, 2529), (84, 2589), (87, 2598), (96, 2631), (102, 2664), (109, 2694), (121, 2739), (124, 2757), (130, 2781), (131, 2790), (146, 2850), (160, 2910), (162, 2919), (163, 2922), (174, 2955), (183, 2976), (196, 3018), (209, 3057), (212, 3069), (224, 3129), (225, 3132), (226, 3138), (229, 3153), (236, 3183), (237, 3189), (251, 3267), (275, 3348), (286, 3402), (293, 3447), (296, 3462), (310, 3534), (323, 3579), (325, 3585), (350, 3693), (352, 3702), (354, 3711), (360, 3741), (365, 3756), (371, 3783),

Gene: Olga_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Olga_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Orla_6 Start: 2790, Stop: 4232, Start Num: 59

Candidate Starts for Orla_6:

(Start: 59 @2790 has 60 MA's), (64, 2805), (89, 2898), (91, 2907), (127, 3063), (134, 3093), (147, 3150), (164, 3222), (209, 3354), (224, 3426), (228, 3444), (234, 3468), (235, 3474), (265, 3618), (288, 3717), (321, 3876), (325, 3888), (334, 3924), (337, 3933), (352, 3993), (359, 4026), (374, 4098), (381, 4113), (412, 4224),

Gene: Ouroboros_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for Ouroboros_3:

(Start: 52 @1886 has 45 MA's), (56, 1892), (Start: 59 @1901 has 60 MA's), (60, 1907), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (163, 2315), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (205, 2432), (210, 2456),

(211, 2459), (214, 2468), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (326, 2945), (328, 2957), (337, 2990), (349, 3041), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P1.1_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P1.1_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (117, 2126), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (205, 2432), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P100.1_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P100.1_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (206, 2438), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (231, 2555), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (254, 2651), (256, 2657), (257, 2666), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (317, 2915), (321, 2930), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P100A_3 Start: 1891, Stop: 3216, Start Num: 52

Candidate Starts for P100A_3:

(Start: 52 @1891 has 45 MA's), (60, 1912), (64, 1924), (71, 1945), (84, 2005), (92, 2029), (94, 2038), (97, 2050), (100, 2071), (102, 2080), (120, 2140), (128, 2179), (130, 2185), (134, 2206), (136, 2215), (145, 2245), (146, 2248), (160, 2308), (164, 2323), (165, 2326), (175, 2350), (181, 2368), (185, 2380), (190, 2392), (204, 2434), (206, 2443), (210, 2461), (211, 2464), (214, 2473), (235, 2575), (241, 2611), (243, 2620), (253, 2653), (254, 2656), (256, 2662), (257, 2671), (262, 2680), (275, 2713), (282, 2758), (288, 2776), (303, 2875), (321, 2935), (335, 2989), (337, 2995), (349, 3046), (361, 3094), (362, 3097), (365, 3103), (366, 3106), (369, 3121), (372, 3136), (373, 3139), (381, 3169), (385, 3178),

Gene: P100D_3 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for P100D_3:

(Start: 52 @1881 has 45 MA's), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (84, 1995), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (117, 2121), (120, 2130), (134, 2196), (145, 2235), (160, 2298), (164, 2313), (165, 2316), (181, 2358), (185, 2370), (190, 2382), (201, 2415), (206, 2433), (207, 2436), (211, 2454), (214, 2463), (229, 2541), (233, 2553), (235, 2565), (241, 2601), (243, 2610), (256, 2652), (257, 2661), (262, 2670), (282, 2748), (285, 2757), (288, 2766), (297, 2841), (303, 2865), (337, 2985), (349, 3036), (356, 3063), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: P101A_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P101A_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (183, 2366), (185, 2375), (190, 2387), (206, 2438), (207, 2441), (210, 2456), (211, 2459),

(214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (253, 2648), (254, 2651), (256, 2657), (257, 2666), (275, 2708), (277, 2723), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (317, 2915), (326, 2945), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P104A_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P104A_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (206, 2438), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (275, 2708), (277, 2723), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (335, 2984), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P104B_3 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for P104B_3:

(Start: 52 @1881 has 45 MA's), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (86, 2001), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (107, 2091), (120, 2130), (128, 2169), (130, 2175), (134, 2196), (136, 2205), (145, 2235), (146, 2238), (160, 2298), (164, 2313), (165, 2316), (169, 2325), (175, 2340), (180, 2355), (181, 2358), (185, 2370), (190, 2382), (205, 2427), (206, 2433), (207, 2436), (211, 2454), (214, 2463), (229, 2541), (231, 2550), (233, 2553), (235, 2565), (241, 2601), (243, 2610), (254, 2646), (256, 2652), (257, 2661), (262, 2670), (275, 2703), (282, 2748), (285, 2757), (288, 2766), (291, 2787), (303, 2865), (337, 2985), (349, 3036), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (369, 3111), (372, 3126), (373, 3129), (381, 3159), (385, 3168),

Gene: P105_3 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for P105_3:

(Start: 52 @1881 has 45 MA's), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (84, 1995), (86, 2001), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (117, 2121), (120, 2130), (134, 2196), (136, 2205), (160, 2298), (164, 2313), (165, 2316), (180, 2355), (181, 2358), (185, 2370), (190, 2382), (199, 2409), (206, 2433), (207, 2436), (210, 2451), (211, 2454), (214, 2463), (231, 2550), (235, 2565), (243, 2610), (256, 2652), (257, 2661), (262, 2670), (275, 2703), (277, 2718), (282, 2748), (284, 2754), (285, 2757), (288, 2766), (297, 2841), (303, 2865), (335, 2979), (337, 2985), (349, 3036), (356, 3063), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (367, 3102), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: P106A_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P106A_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (183, 2366), (185, 2375), (190, 2387), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (253, 2648), (254, 2651), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (277, 2723), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (317, 2915), (326, 2945), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P106C_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P106C_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (183, 2366), (185, 2375), (190, 2387), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (253, 2648), (254, 2651), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (277, 2723), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (317, 2915), (326, 2945), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P106I_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P106I_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (183, 2366), (185, 2375), (190, 2387), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (253, 2648), (254, 2651), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (277, 2723), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (317, 2915), (326, 2945), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P106L_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P106L_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (183, 2366), (185, 2375), (190, 2387), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (253, 2648), (254, 2651), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (277, 2723), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (317, 2915), (326, 2945), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P106M_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P106M_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (183, 2366), (185, 2375), (190, 2387), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (253, 2648), (254, 2651), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (277, 2723), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (317, 2915), (326, 2945), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P107A_3 Start: 1894, Stop: 3219, Start Num: 52

Candidate Starts for P107A_3:

(Start: 52 @1894 has 45 MA's), (Start: 59 @1909 has 60 MA's), (64, 1927), (71, 1948), (84, 2008), (92, 2032), (94, 2041), (97, 2053), (100, 2074), (102, 2083), (117, 2134), (120, 2143), (128, 2182), (130, 2188), (134, 2209), (136, 2218), (145, 2248), (146, 2251), (164, 2326), (165, 2329), (175, 2353), (181, 2371), (185, 2383), (190, 2395), (205, 2440), (210, 2464), (211, 2467), (214, 2476), (231, 2563), (233, 2566), (253, 2656), (254, 2659), (256, 2665), (257, 2674), (262, 2683), (275, 2716), (282, 2761), (284,

2767), (285, 2770), (288, 2779), (291, 2800), (303, 2878), (321, 2938), (326, 2953), (335, 2992), (337, 2998), (349, 3049), (356, 3076), (361, 3097), (362, 3100), (365, 3106), (366, 3109), (369, 3124), (372, 3139), (373, 3142), (381, 3172), (382, 3178), (385, 3181),

Gene: P107C_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P107C_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (201, 2420), (206, 2438), (210, 2456), (211, 2459), (214, 2468), (233, 2558), (235, 2570), (243, 2615), (256, 2657), (257, 2666), (275, 2708), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (291, 2792), (297, 2846), (303, 2870), (326, 2945), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P108C_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P108C_3:

(Start: 52 @1886 has 45 MA's), (56, 1892), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (201, 2420), (205, 2432), (206, 2438), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (321, 2930), (326, 2945), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P14.4_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for P14.4_3:

(Start: 52 @1886 has 45 MA's), (56, 1892), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (205, 2432), (210, 2456), (211, 2459), (214, 2468), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (254, 2651), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (335, 2984), (337, 2990), (349, 3041), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: P3MA_4 Start: 2405, Stop: 3877, Start Num: 41

Candidate Starts for P3MA_4:

(Start: 41 @2405 has 32 MA's), (60, 2456), (84, 2549), (96, 2591), (100, 2615), (101, 2621), (114, 2681), (160, 2870), (163, 2882), (191, 2954), (209, 3011), (213, 3026), (214, 3029), (223, 3080), (224, 3083), (241, 3167), (254, 3230), (255, 3233), (294, 3407), (319, 3521), (320, 3524), (323, 3533), (327, 3551), (335, 3581), (360, 3689), (387, 3779),

Gene: P9.1_3 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for P9.1_3:

(Start: 52 @1881 has 45 MA's), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (84, 1995), (86, 2001), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (120, 2130), (134, 2196), (136, 2205), (145, 2235), (146, 2238), (160, 2298), (164, 2313), (165, 2316), (180, 2355), (181, 2358), (183, 2361), (185, 2370), (190, 2382), (206, 2433), (207, 2436), (210, 2451), (211, 2454), (214, 2463), (229, 2541), (233, 2553), (235, 2565), (241, 2601), (243, 2610), (253, 2643), (254, 2646), (256, 2652), (257, 2661), (262, 2670), (275, 2703), (277, 2718), (282, 2748), (284, 2754), (285, 2757), (288, 2766), (297, 2841), (303, 2865), (317, 2910), (326, 2940), (337, 2985), (349, 3036), (352, 3048),

(356, 3063), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (367, 3102), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: PA6_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for PA6_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (145, 2240), (160, 2303), (163, 2315), (164, 2318), (165, 2321), (181, 2363), (185, 2375), (190, 2387), (201, 2420), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (321, 2930), (326, 2945), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164), (382, 3170),

Gene: PAD20_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for PAD20_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (146, 2243), (164, 2318), (165, 2321), (175, 2345), (181, 2363), (183, 2366), (185, 2375), (190, 2387), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (288, 2771), (297, 2846), (303, 2870), (317, 2915), (321, 2930), (326, 2945), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: PAS50_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for PAS50_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (145, 2240), (147, 2246), (163, 2315), (164, 2318), (175, 2345), (181, 2363), (185, 2375), (190, 2387), (201, 2420), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (326, 2945), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: PHL010M04_03 Start: 1885, Stop: 3210, Start Num: 52

Candidate Starts for PHL010M04_03:

(Start: 52 @1885 has 45 MA's), (56, 1891), (Start: 59 @1900 has 60 MA's), (64, 1918), (71, 1939), (84, 1999), (92, 2023), (94, 2032), (96, 2041), (97, 2044), (100, 2065), (102, 2074), (117, 2125), (120, 2134), (128, 2173), (130, 2179), (134, 2200), (136, 2209), (145, 2239), (146, 2242), (164, 2317), (165, 2320), (181, 2362), (185, 2374), (201, 2419), (206, 2437), (207, 2440), (210, 2455), (211, 2458), (214, 2467), (235, 2569), (253, 2647), (254, 2650), (256, 2656), (257, 2665), (262, 2674), (282, 2752), (288, 2770), (291, 2791), (326, 2944), (328, 2956), (335, 2983), (337, 2989), (349, 3040), (352, 3052), (356, 3067), (361, 3088), (362, 3091), (365, 3097), (366, 3100), (367, 3106), (369, 3115), (372, 3130), (373, 3133), (381, 3163), (385, 3172),

Gene: PHL037M02_03 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for PHL037M02_03:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (201, 2420), (206, 2438), (207, 2441), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (275, 2708), (282, 2753), (285,

2762), (288, 2771), (297, 2846), (303, 2870), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: PHL060L00_03 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for PHL060L00_03:

(Start: 52 @1881 has 45 MA's), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (86, 2001), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (120, 2130), (128, 2169), (130, 2175), (134, 2196), (136, 2205), (145, 2235), (146, 2238), (160, 2298), (163, 2310), (164, 2313), (175, 2340), (181, 2358), (185, 2370), (190, 2382), (201, 2415), (206, 2433), (207, 2436), (211, 2454), (214, 2463), (231, 2550), (235, 2565), (241, 2601), (243, 2610), (253, 2643), (254, 2646), (256, 2652), (257, 2661), (262, 2670), (275, 2703), (282, 2748), (284, 2754), (285, 2757), (288, 2766), (297, 2841), (303, 2865), (317, 2910), (326, 2940), (335, 2979), (337, 2985), (349, 3036), (356, 3063), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (367, 3102), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: PHL067M10_03 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for PHL067M10_03:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (145, 2240), (160, 2303), (164, 2318), (165, 2321), (181, 2363), (185, 2375), (190, 2387), (199, 2414), (205, 2432), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (317, 2915), (335, 2984), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: PHL071N05_03 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for PHL071N05_03:

(Start: 52 @1881 has 45 MA's), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (84, 1995), (86, 2001), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (120, 2130), (128, 2169), (130, 2175), (134, 2196), (136, 2205), (145, 2235), (146, 2238), (160, 2298), (164, 2313), (165, 2316), (180, 2355), (181, 2358), (185, 2370), (190, 2382), (205, 2427), (210, 2451), (211, 2454), (214, 2463), (229, 2541), (233, 2553), (235, 2565), (241, 2601), (243, 2610), (256, 2652), (257, 2661), (262, 2670), (275, 2703), (282, 2748), (285, 2757), (288, 2766), (297, 2841), (303, 2865), (326, 2940), (337, 2985), (349, 3036), (356, 3063), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: PHL111M01_03 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for PHL111M01_03:

(Start: 52 @1886 has 45 MA's), (56, 1892), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (145, 2240), (160, 2303), (163, 2315), (164, 2318), (175, 2345), (181, 2363), (185, 2375), (190, 2387), (201, 2420), (206, 2438), (207, 2441), (211, 2459), (214, 2468), (229, 2546), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (326, 2945), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: PHL112N00_03 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for PHL112N00_03:

(Start: 52 @1886 has 45 MA's), (56, 1892), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (134, 2201), (145, 2240), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375),

(190, 2387), (205, 2432), (206, 2438), (210, 2456), (211, 2459), (214, 2468), (231, 2555), (235, 2570), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (277, 2723), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (335, 2984), (337, 2990), (349, 3041), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: PHL113M01_03 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for PHL113M01_03:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (60, 1907), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (205, 2432), (206, 2438), (207, 2441), (210, 2456), (211, 2459), (214, 2468), (233, 2558), (235, 2570), (241, 2606), (243, 2615), (254, 2651), (256, 2657), (257, 2666), (275, 2708), (277, 2723), (282, 2753), (284, 2759), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (337, 2990), (349, 3041), (352, 3053), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (367, 3107), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: PHL114L00_03 Start: 1894, Stop: 3219, Start Num: 52

Candidate Starts for PHL114L00_03:

(Start: 52 @1894 has 45 MA's), (64, 1927), (71, 1948), (82, 1999), (84, 2008), (92, 2032), (94, 2041), (96, 2050), (97, 2053), (100, 2074), (102, 2083), (117, 2134), (120, 2143), (128, 2182), (134, 2209), (136, 2218), (145, 2248), (146, 2251), (163, 2323), (164, 2326), (175, 2353), (180, 2368), (181, 2371), (183, 2374), (185, 2383), (190, 2395), (206, 2446), (210, 2464), (211, 2467), (214, 2476), (229, 2554), (235, 2578), (241, 2614), (243, 2623), (256, 2665), (257, 2674), (275, 2716), (282, 2761), (284, 2767), (285, 2770), (288, 2779), (297, 2854), (303, 2878), (326, 2953), (335, 2992), (337, 2998), (349, 3049), (356, 3076), (361, 3097), (362, 3100), (365, 3106), (366, 3109), (367, 3115), (369, 3124), (372, 3139), (373, 3142), (381, 3172),

Gene: Pace1224_3 Start: 1900, Stop: 3444, Start Num: 26

Candidate Starts for Pace1224_3:

(Start: 26 @1900 has 69 MA's), (58, 1972), (Start: 59 @1975 has 60 MA's), (87, 2083), (96, 2116), (109, 2179), (129, 2263), (130, 2266), (149, 2350), (159, 2395), (160, 2401), (185, 2476), (187, 2482), (209, 2548), (212, 2560), (213, 2563), (219, 2593), (229, 2644), (234, 2662), (240, 2698), (257, 2782), (275, 2839), (287, 2899), (325, 3076), (357, 3208), (371, 3271), (377, 3298), (399, 3343),

Gene: Paito_3 Start: 1925, Stop: 3439, Start Num: 26

Candidate Starts for Paito_3:

(Start: 26 @1925 has 69 MA's), (58, 1988), (Start: 59 @1991 has 60 MA's), (96, 2132), (129, 2279), (130, 2282), (151, 2372), (160, 2411), (185, 2486), (187, 2492), (202, 2534), (225, 2630), (234, 2669), (241, 2711), (249, 2756), (256, 2780), (257, 2789), (275, 2846), (281, 2888), (287, 2906), (288, 2909), (319, 3065), (351, 3191), (359, 3230), (363, 3242), (371, 3278),

Gene: Peeb_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Peeb_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (12, 1750), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (351, 3154), (363, 3205),

Gene: Periodt_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Periodt_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449),

(187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Periwinkle_4 Start: 2191, Stop: 3627, Start Num: 41

Candidate Starts for Periwinkle_4:

(Start: 41 @2191 has 32 MA's), (61, 2245), (73, 2281), (75, 2293), (83, 2332), (84, 2335), (102, 2410), (120, 2482), (126, 2512), (131, 2536), (136, 2557), (149, 2605), (165, 2674), (179, 2716), (207, 2794), (212, 2815), (213, 2818), (225, 2878), (231, 2908), (233, 2911), (236, 2929), (237, 2935), (242, 2962), (244, 2980), (251, 3013), (269, 3079), (275, 3094), (286, 3148), (291, 3178), (296, 3208), (302, 3256), (316, 3301), (325, 3331), (348, 3424), (350, 3439), (365, 3502), (386, 3562), (396, 3589), (398, 3592),

Gene: Phabuloso_4 Start: 2189, Stop: 3625, Start Num: 41

Candidate Starts for Phabuloso_4:

(Start: 41 @2189 has 32 MA's), (75, 2291), (87, 2342), (100, 2399), (102, 2408), (120, 2480), (131, 2534), (140, 2567), (149, 2603), (163, 2666), (200, 2774), (209, 2801), (212, 2813), (213, 2816), (225, 2876), (226, 2882), (236, 2927), (237, 2933), (242, 2960), (244, 2978), (251, 3011), (266, 3062), (275, 3092), (286, 3146), (291, 3176), (296, 3206), (325, 3329), (348, 3422), (350, 3437), (359, 3479), (365, 3500), (371, 3527), (386, 3560), (396, 3587),

Gene: Phish_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Phish_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Phistory_4 Start: 2190, Stop: 3626, Start Num: 41

Candidate Starts for Phistory_4:

(Start: 41 @2190 has 32 MA's), (73, 2280), (83, 2331), (84, 2334), (102, 2409), (109, 2439), (120, 2481), (126, 2511), (131, 2535), (140, 2568), (225, 2877), (226, 2883), (231, 2907), (236, 2928), (237, 2934), (242, 2961), (244, 2979), (251, 3012), (275, 3093), (286, 3147), (291, 3177), (296, 3207), (325, 3330), (348, 3423), (350, 3438), (365, 3501), (386, 3561),

Gene: Phloodle_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Phloodle_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: PhorbesPhlower_3 Start: 1754, Stop: 3208, Start Num: 44

Candidate Starts for PhorbesPhlower_3:

(Start: 44 @1754 has 3 MA's), (54, 1781), (67, 1823), (81, 1883), (88, 1907), (96, 1937), (114, 2027), (120, 2042), (130, 2087), (134, 2108), (137, 2120), (149, 2165), (165, 2234), (179, 2276), (191, 2306), (209, 2357), (225, 2432), (236, 2483), (241, 2513), (249, 2558), (256, 2582), (269, 2630), (275, 2645), (303, 2810), (319, 2864), (320, 2867), (354, 3002), (363, 3038), (401, 3143),

Gene: Phreak_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Phreak_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: PinkYoshi_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for PinkYoshi_3:

(Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Pinnie_4 Start: 2401, Stop: 3951, Start Num: 26

Candidate Starts for Pinnie_4:

(Start: 26 @2401 has 69 MA's), (49, 2452), (Start: 59 @2479 has 60 MA's), (129, 2767), (151, 2866), (160, 2905), (219, 3094), (232, 3154), (234, 3163), (240, 3199), (249, 3250), (257, 3283), (275, 3340), (281, 3382), (287, 3400), (325, 3577), (359, 3724), (377, 3799), (379, 3805), (406, 3868), (408, 3883),

Gene: Pirate_3 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for Pirate_3:

(Start: 52 @1881 has 45 MA's), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (84, 1995), (86, 2001), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (120, 2130), (128, 2169), (130, 2175), (134, 2196), (136, 2205), (145, 2235), (146, 2238), (160, 2298), (164, 2313), (165, 2316), (180, 2355), (181, 2358), (185, 2370), (190, 2382), (205, 2427), (210, 2451), (211, 2454), (214, 2463), (229, 2541), (233, 2553), (235, 2565), (241, 2601), (243, 2610), (256, 2652), (257, 2661), (262, 2670), (275, 2703), (282, 2748), (285, 2757), (288, 2766), (297, 2841), (303, 2865), (321, 2925), (326, 2940), (337, 2985), (349, 3036), (356, 3063), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: Pitbull_3 Start: 1792, Stop: 3201, Start Num: 42

Candidate Starts for Pitbull_3:

(Start: 42 @1792 has 1 MA's), (82, 1927), (108, 2038), (117, 2074), (134, 2149), (165, 2281), (183, 2326), (193, 2356), (197, 2365), (214, 2419), (219, 2446), (225, 2476), (233, 2509), (236, 2527), (242, 2560), (275, 2683), (282, 2728), (288, 2746), (289, 2749), (296, 2797), (310, 2869), (315, 2884), (319, 2902), (365, 3085), (371, 3112), (389, 3145), (394, 3157),

Gene: Plagueis_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Plagueis_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Poise_36 Start: 12177, Stop: 13742, Start Num: 22

Candidate Starts for Poise_36:

(Start: 22 @12177 has 19 MA's), (Start: 59 @12294 has 60 MA's), (90, 12414), (100, 12459), (102, 12468), (125, 12558), (135, 12606), (136, 12609), (148, 12651), (149, 12654), (154, 12678), (175, 12750), (176, 12753), (191, 12792), (197, 12813), (198, 12816), (210, 12861), (229, 12951), (231, 12960), (234, 12969), (241, 13011), (242, 13014), (248, 13053), (259, 13095), (261, 13101), (262, 13104), (273, 13149), (288, 13218), (303, 13317), (307, 13329), (336, 13428), (351, 13494), (357, 13515), (359, 13530), (386, 13623), (393, 13638),

Gene: Pollux_3 Start: 2281, Stop: 3735, Start Num: 33

Candidate Starts for Pollux_3:

(13, 2128), (16, 2188), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (130, 2611), (131, 2620), (174, 2779), (179, 2794), (187, 2815), (209, 2884), (211, 2893), (218, 2926), (231, 2989), (234, 2998), (253, 3100), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3682),

Gene: Pons_5 Start: 2570, Stop: 4018, Start Num: 59

Candidate Starts for Pons_5:

(Start: 59 @2570 has 60 MA's), (65, 2600), (85, 2678), (100, 2744), (101, 2750), (110, 2786), (121, 2822), (137, 2897), (153, 2966), (160, 2999), (161, 3005), (175, 3041), (210, 3152), (211, 3155), (213, 3161), (222, 3206), (228, 3236), (233, 3254), (234, 3260), (241, 3302), (256, 3371), (272, 3437), (288, 3509), (325, 3680), (334, 3713), (350, 3773), (351, 3779), (355, 3794), (363, 3827), (374, 3887), (375, 3890), (412, 4001),

Gene: Posh_3 Start: 2281, Stop: 3729, Start Num: 33

Candidate Starts for Posh_3:

(Start: 33 @2281 has 28 MA's), (48, 2299), (95, 2467), (101, 2500), (112, 2548), (128, 2605), (131, 2620), (187, 2815), (209, 2884), (211, 2893), (234, 2998), (253, 3100), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (302, 3337), (312, 3367), (321, 3400), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3676),

Gene: PotPie_5 Start: 3435, Stop: 4868, Start Num: 59

Candidate Starts for PotPie_5:

(Start: 59 @3435 has 60 MA's), (65, 3459), (73, 3483), (100, 3603), (101, 3609), (110, 3645), (121, 3681), (124, 3699), (131, 3732), (137, 3756), (153, 3825), (160, 3858), (211, 4014), (222, 4065), (228, 4095), (234, 4119), (241, 4161), (256, 4230), (272, 4296), (288, 4368), (325, 4539), (334, 4572), (350, 4632), (355, 4653), (363, 4686), (374, 4746), (375, 4749), (412, 4860),

Gene: Pringar_36 Start: 12489, Stop: 14054, Start Num: 22

Candidate Starts for Pringar_36:

(Start: 22 @12489 has 19 MA's), (Start: 59 @12606 has 60 MA's), (90, 12726), (100, 12771), (102, 12780), (125, 12870), (135, 12918), (136, 12921), (148, 12963), (149, 12966), (154, 12990), (175, 13062), (176, 13065), (191, 13104), (197, 13125), (198, 13128), (210, 13173), (229, 13263), (231, 13272), (234, 13281), (241, 13323), (242, 13326), (248, 13365), (259, 13407), (261, 13413), (262, 13416), (273, 13461), (288, 13530), (303, 13629), (307, 13641), (336, 13740), (351, 13806), (357, 13827), (359, 13842), (386, 13935), (393, 13950),

Gene: Procrass1_3 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for Procrass1_3:

(Start: 52 @1881 has 45 MA's), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (84, 1995), (86, 2001), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (120, 2130), (128, 2169), (130, 2175), (134, 2196), (136, 2205), (145, 2235), (146, 2238), (164, 2313), (165, 2316), (180, 2355), (181, 2358), (185, 2370), (190, 2382), (206, 2433), (210, 2451), (211, 2454), (214, 2463), (233, 2553), (235, 2565), (241, 2601), (243, 2610), (254, 2646), (256, 2652), (257, 2661), (262, 2670), (275, 2703), (282, 2748), (285, 2757), (288, 2766), (297, 2841), (303, 2865), (337, 2985), (349, 3036), (356, 3063), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: PsychoKiller_5 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for PsychoKiller_5:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: Pytheas_3 Start: 2281, Stop: 3729, Start Num: 33

Candidate Starts for Pytheas_3:

(13, 2128), (Start: 33 @2281 has 28 MA's), (95, 2467), (101, 2500), (109, 2533), (128, 2605), (187, 2815), (211, 2893), (218, 2926), (231, 2989), (234, 2998), (259, 3124), (262, 3133), (272, 3169), (282, 3223), (293, 3277), (299, 3322), (312, 3367), (323, 3406), (324, 3409), (325, 3412), (337, 3457), (403, 3676),

Gene: Quasar_5 Start: 3410, Stop: 4867, Start Num: 59

Candidate Starts for Quasar_5:

(Start: 59 @3410 has 60 MA's), (65, 3434), (93, 3545), (94, 3548), (96, 3557), (113, 3638), (134, 3722), (137, 3734), (153, 3803), (200, 3950), (211, 3992), (224, 4055), (228, 4073), (229, 4079), (233, 4091), (234, 4097), (256, 4208), (280, 4325), (288, 4352), (293, 4388), (323, 4517), (325, 4523), (334, 4556), (349, 4613), (350, 4616), (356, 4640), (363, 4670), (374, 4730), (375, 4733), (412, 4844),

Gene: QueenBey_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for QueenBey_3:

(Start: 52 @1886 has 45 MA's), (56, 1892), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (160, 2303), (163, 2315), (164, 2318), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (205, 2432), (211, 2459), (214, 2468), (235, 2570), (241, 2606), (243, 2615), (253, 2648), (254, 2651), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (297, 2846), (303, 2870), (335, 2984), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: RADical_6 Start: 2790, Stop: 4247, Start Num: 59

Candidate Starts for RADical_6:

(Start: 59 @2790 has 60 MA's), (65, 2814), (93, 2925), (94, 2928), (96, 2937), (113, 3018), (134, 3102), (137, 3114), (153, 3183), (200, 3330), (211, 3372), (224, 3435), (228, 3453), (233, 3471), (234, 3477), (256, 3588), (280, 3705), (288, 3732), (293, 3768), (323, 3897), (325, 3903), (334, 3936), (349, 3993), (350, 3996), (356, 4020), (363, 4050), (374, 4110), (375, 4113), (412, 4224),

Gene: RSchmailzl_6 Start: 2954, Stop: 4387, Start Num: 65

Candidate Starts for RSchmailzl_6:

(Start: 59 @2930 has 60 MA's), (65, 2954), (93, 3065), (94, 3068), (96, 3077), (113, 3158), (134, 3242), (137, 3254), (153, 3323), (211, 3512), (224, 3575), (228, 3593), (229, 3599), (233, 3611), (234, 3617), (256, 3728), (280, 3845), (288, 3872), (293, 3908), (323, 4037), (325, 4043), (334, 4076), (349, 4133), (356, 4160), (363, 4190), (374, 4250), (375, 4253), (412, 4364),

Gene: Rabbs_3 Start: 1889, Stop: 3403, Start Num: 26

Candidate Starts for Rabbs_3:

(1, 1322), (6, 1490), (7, 1505), (10, 1634), (Start: 26 @1889 has 69 MA's), (58, 1952), (Start: 59 @1955 has 60 MA's), (61, 1964), (96, 2096), (129, 2243), (130, 2246), (151, 2336), (160, 2375), (185, 2450), (187, 2456), (192, 2468), (209, 2519), (212, 2531), (225, 2594), (234, 2633), (241, 2675), (249, 2720), (256, 2744), (257, 2753), (275, 2810), (281, 2852), (287, 2870), (288, 2873), (319, 3029), (344, 3119), (351, 3155), (363, 3206), (368, 3230),

Gene: Raela_36 Start: 12732, Stop: 14297, Start Num: 22

Candidate Starts for Raela_36:

(Start: 22 @12732 has 19 MA's), (Start: 59 @12849 has 60 MA's), (90, 12969), (100, 13014), (102, 13023), (125, 13113), (135, 13161), (136, 13164), (148, 13206), (149, 13209), (154, 13233), (175, 13305), (176, 13308), (191, 13347), (197, 13368), (198, 13371), (210, 13416), (229, 13506), (231, 13515), (234, 13524), (241, 13566), (242, 13569), (248, 13608), (259, 13650), (261, 13656), (262, 13659), (273, 13704), (288, 13773), (303, 13872), (307, 13884), (336, 13983), (351, 14049), (357, 14070), (359, 14085), (386, 14178), (393, 14193),

Gene: RanchParmCat_8 Start: 3559, Stop: 5004, Start Num: 59

Candidate Starts for RanchParmCat_8:

(Start: 59 @3559 has 60 MA's), (64, 3574), (91, 3676), (96, 3697), (97, 3700), (110, 3763), (118, 3790), (127, 3832), (134, 3862), (136, 3871), (147, 3919), (164, 3991), (178, 4027), (209, 4123), (224, 4195), (228, 4213), (229, 4219), (234, 4237), (235, 4243), (265, 4387), (288, 4486), (331, 4684), (334, 4693), (352, 4762), (363, 4807), (374, 4867), (379, 4879), (412, 4993),

Gene: Raqqa_4 Start: 2455, Stop: 3861, Start Num: 36

Candidate Starts for Raqqa_4:

(Start: 36 @2455 has 4 MA's), (54, 2503), (Start: 59 @2518 has 60 MA's), (60, 2524), (61, 2527), (64, 2536), (77, 2584), (87, 2626), (92, 2641), (97, 2662), (98, 2677), (136, 2836), (138, 2842), (145, 2872), (155, 2911), (168, 2962), (186, 3010), (211, 3088), (216, 3112), (217, 3115), (224, 3151), (225, 3154), (228, 3169), (234, 3193), (256, 3298), (279, 3373), (281, 3391), (287, 3409), (294, 3454), (306, 3520), (314, 3544), (323, 3580), (324, 3583), (351, 3694), (359, 3730), (368, 3763), (371, 3775),

Gene: Rattrick_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Rattrick_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: RedBaron_6 Start: 2858, Stop: 4291, Start Num: 65

Candidate Starts for RedBaron_6:

(Start: 59 @2834 has 60 MA's), (65, 2858), (93, 2969), (94, 2972), (96, 2981), (113, 3062), (134, 3146), (137, 3158), (153, 3227), (200, 3374), (211, 3416), (224, 3479), (228, 3497), (229, 3503), (233, 3515), (234, 3521), (256, 3632), (280, 3749), (288, 3776), (293, 3812), (323, 3941), (325, 3947), (334, 3980), (349, 4037), (350, 4040), (356, 4064), (363, 4094), (374, 4154), (375, 4157), (412, 4268),

Gene: RedRaider77_36 Start: 12633, Stop: 14198, Start Num: 22

Candidate Starts for RedRaider77_36:

(Start: 22 @12633 has 19 MA's), (Start: 59 @12750 has 60 MA's), (60, 12756), (90, 12870), (100, 12915), (102, 12924), (125, 13014), (135, 13062), (136, 13065), (148, 13107), (149, 13110), (154, 13134), (175, 13206), (176, 13209), (191, 13248), (197, 13269), (198, 13272), (210, 13317), (229, 13407), (231, 13416), (234, 13425), (241, 13467), (242, 13470), (248, 13509), (259, 13551), (261, 13557), (262, 13560), (273, 13605), (288, 13674), (303, 13773), (307, 13785), (336, 13884), (351, 13950), (357, 13971), (359, 13986), (386, 14079), (393, 14094),

Gene: Remy19_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Remy19_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118),

(351, 3154), (363, 3205), (368, 3229),

Gene: Renaissance_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Renaissance_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Renaud18_3 Start: 2233, Stop: 3708, Start Num: 33

Candidate Starts for Renaud18_3:

(Start: 33 @2233 has 28 MA's), (37, 2245), (46, 2266), (54, 2287), (93, 2434), (96, 2446), (99, 2467), (100, 2470), (117, 2530), (123, 2557), (130, 2584), (145, 2656), (146, 2659), (147, 2662), (149, 2668), (154, 2692), (158, 2710), (170, 2752), (175, 2764), (176, 2767), (189, 2800), (196, 2824), (200, 2830), (209, 2863), (210, 2869), (218, 2905), (224, 2935), (225, 2938), (226, 2944), (234, 2977), (242, 3022), (244, 3040), (246, 3049), (262, 3112), (267, 3133), (273, 3160), (282, 3211), (289, 3232), (293, 3265), (295, 3274), (302, 3325), (303, 3328), (315, 3364), (321, 3388), (323, 3394), (324, 3397), (331, 3427), (337, 3445), (355, 3520), (359, 3541), (370, 3586), (390, 3634),

Gene: Richarlison_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Richarlison_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Rileysaurus_3 Start: 1885, Stop: 3210, Start Num: 52

Candidate Starts for Rileysaurus_3:

(Start: 52 @1885 has 45 MA's), (56, 1891), (Start: 59 @1900 has 60 MA's), (64, 1918), (71, 1939), (82, 1990), (84, 1999), (92, 2023), (94, 2032), (96, 2041), (97, 2044), (100, 2065), (102, 2074), (120, 2134), (128, 2173), (134, 2200), (136, 2209), (145, 2239), (163, 2314), (164, 2317), (165, 2320), (181, 2362), (185, 2374), (205, 2431), (210, 2455), (211, 2458), (214, 2467), (233, 2557), (235, 2569), (241, 2605), (243, 2614), (256, 2656), (257, 2665), (275, 2707), (282, 2752), (288, 2770), (297, 2845), (303, 2869), (321, 2929), (326, 2944), (337, 2989), (349, 3040), (356, 3067), (361, 3088), (362, 3091), (365, 3097), (369, 3115), (372, 3130), (373, 3133), (381, 3163),

Gene: Roberts_5 Start: 2786, Stop: 4270, Start Num: 38

Candidate Starts for Roberts_5:

(Start: 38 @2786 has 3 MA's), (79, 2915), (84, 2936), (110, 3044), (137, 3161), (139, 3167), (151, 3224), (210, 3410), (225, 3479), (227, 3488), (234, 3518), (241, 3560), (256, 3629), (257, 3638), (279, 3704), (281, 3722), (282, 3725), (297, 3818), (319, 3896), (363, 4064), (395, 4166), (414, 4250),

Gene: RonRayGun_4 Start: 2624, Stop: 4189, Start Num: 24

Candidate Starts for RonRayGun_4:

(17, 2567), (18, 2576), (19, 2579), (Start: 24 @2624 has 7 MA's), (28, 2642), (61, 2732), (63, 2741), (67, 2753), (96, 2870), (107, 2924), (110, 2936), (114, 2960), (133, 3035), (136, 3050), (140, 3062), (144, 3074), (153, 3113), (186, 3230), (190, 3239), (193, 3248), (207, 3296), (212, 3317), (221, 3362), (222, 3365), (233, 3413), (239, 3449), (249, 3506), (265, 3563), (289, 3647), (291, 3665), (299, 3728), (311, 3770), (319, 3800), (355, 3932), (367, 3983), (386, 4046), (391, 4055),

Gene: Ruriko_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Ruriko_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: SKKY_3 Start: 1893, Stop: 3218, Start Num: 52

Candidate Starts for SKKY_3:

(Start: 52 @1893 has 45 MA's), (Start: 59 @1908 has 60 MA's), (64, 1926), (71, 1947), (82, 1998), (84, 2007), (86, 2013), (92, 2031), (94, 2040), (96, 2049), (97, 2052), (100, 2073), (102, 2082), (120, 2142), (128, 2181), (130, 2187), (134, 2208), (136, 2217), (145, 2247), (146, 2250), (160, 2310), (164, 2325), (165, 2328), (180, 2367), (181, 2370), (185, 2382), (190, 2394), (206, 2445), (210, 2463), (211, 2466), (214, 2475), (229, 2553), (233, 2565), (235, 2577), (243, 2622), (256, 2664), (257, 2673), (262, 2682), (275, 2715), (277, 2730), (282, 2760), (285, 2769), (288, 2778), (297, 2853), (303, 2877), (317, 2922), (321, 2937), (326, 2952), (337, 2997), (349, 3048), (361, 3096), (362, 3099), (365, 3105), (366, 3108), (367, 3114), (369, 3123), (372, 3138), (373, 3141), (381, 3171),

Gene: Salvus_7 Start: 3761, Stop: 5284, Start Num: 45

Candidate Starts for Salvus_7:

(21, 3677), (Start: 45 @3761 has 2 MA's), (50, 3776), (64, 3818), (88, 3911), (92, 3923), (101, 3971), (105, 3986), (116, 4049), (117, 4061), (122, 4076), (132, 4127), (136, 4145), (160, 4256), (234, 4520), (245, 4589), (255, 4628), (295, 4790), (300, 4829), (318, 4895), (324, 4913), (350, 5006), (352, 5015), (353, 5021),

Gene: Schiebel_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Schiebel_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: ShaboiShabazz_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for ShaboiShabazz_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: ShawBrad_4 Start: 2191, Stop: 3627, Start Num: 41

Candidate Starts for ShawBrad_4:

(Start: 41 @2191 has 32 MA's), (73, 2281), (83, 2332), (84, 2335), (109, 2440), (120, 2482), (126, 2512), (131, 2536), (140, 2569), (225, 2878), (236, 2929), (237, 2935), (242, 2962), (244, 2980), (251, 3013), (266, 3064), (275, 3094), (286, 3148), (291, 3178), (296, 3208), (325, 3331), (348, 3424), (350, 3439), (365, 3502), (386, 3562), (396, 3589), (398, 3592),

Gene: SheckWes_4 Start: 2570, Stop: 4018, Start Num: 59

Candidate Starts for SheckWes_4:

(Start: 59 @2570 has 60 MA's), (65, 2600), (85, 2678), (100, 2744), (101, 2750), (110, 2786), (121, 2822), (137, 2897), (153, 2966), (160, 2999), (161, 3005), (175, 3041), (210, 3152), (211, 3155), (213, 3161), (222, 3206), (228, 3236), (233, 3254), (234, 3260), (241, 3302), (256, 3371), (272, 3437), (288,

3509), (325, 3680), (334, 3713), (350, 3773), (351, 3779), (355, 3794), (363, 3827), (374, 3887), (375, 3890), (412, 4001),

Gene: SilverChicken_4 Start: 2180, Stop: 3604, Start Num: 41

Candidate Starts for SilverChicken_4:

(Start: 41 @2180 has 32 MA's), (54, 2213), (71, 2267), (84, 2327), (87, 2336), (96, 2369), (102, 2402), (109, 2432), (121, 2477), (124, 2495), (130, 2519), (131, 2528), (146, 2588), (160, 2648), (162, 2657), (163, 2660), (174, 2693), (183, 2714), (196, 2756), (209, 2795), (212, 2807), (213, 2810), (224, 2867), (225, 2870), (226, 2876), (229, 2891), (236, 2921), (237, 2927), (251, 3005), (275, 3086), (286, 3140), (293, 3185), (296, 3200), (310, 3272), (323, 3317), (325, 3323), (350, 3431), (352, 3440), (354, 3449), (360, 3479), (365, 3494),

Gene: Sizemore_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Sizemore_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: SketchMex_4 Start: 2786, Stop: 4240, Start Num: 59

Candidate Starts for SketchMex_4:

(Start: 59 @2786 has 60 MA's), (65, 2810), (94, 2924), (96, 2933), (132, 3089), (134, 3098), (153, 3179), (200, 3326), (211, 3368), (228, 3449), (233, 3467), (234, 3473), (255, 3581), (280, 3701), (288, 3728), (293, 3764), (317, 3872), (323, 3893), (356, 4016), (363, 4046), (374, 4106), (375, 4109), (412, 4217),

Gene: Skitty_3 Start: 1758, Stop: 3161, Start Num: 36

Candidate Starts for Skitty_3:

(Start: 36 @1758 has 4 MA's), (55, 1809), (Start: 59 @1821 has 60 MA's), (64, 1839), (65, 1842), (74, 1875), (92, 1944), (98, 1980), (100, 1986), (104, 2001), (108, 2022), (110, 2028), (117, 2055), (125, 2088), (126, 2094), (134, 2130), (135, 2136), (160, 2238), (167, 2262), (168, 2265), (172, 2271), (179, 2295), (185, 2310), (186, 2313), (224, 2451), (225, 2454), (228, 2469), (234, 2493), (241, 2535), (243, 2544), (247, 2568), (256, 2598), (271, 2640), (275, 2649), (276, 2658), (279, 2673), (281, 2691), (302, 2808), (324, 2883), (350, 2988), (351, 2994), (357, 3015), (359, 3030), (371, 3075), (392, 3132),

Gene: Sneeze_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Sneeze_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Socotra_6 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for Socotra_6:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: Solid_3 Start: 1885, Stop: 3210, Start Num: 52

Candidate Starts for Solid_3:

(Start: 52 @1885 has 45 MA's), (Start: 59 @1900 has 60 MA's), (64, 1918), (71, 1939), (82, 1990), (84, 1999), (86, 2005), (92, 2023), (94, 2032), (96, 2041), (97, 2044), (100, 2065), (102, 2074), (120, 2134), (128, 2173), (130, 2179), (134, 2200), (136, 2209), (145, 2239), (146, 2242), (160, 2302), (163, 2314), (164, 2317), (165, 2320), (180, 2359), (181, 2362), (185, 2374), (190, 2386), (206, 2437), (211, 2458), (214, 2467), (229, 2545), (233, 2557), (235, 2569), (241, 2605), (243, 2614), (256, 2656), (257, 2665), (262, 2674), (275, 2707), (282, 2752), (285, 2761), (288, 2770), (297, 2845), (303, 2869), (317, 2914), (321, 2929), (337, 2989), (349, 3040), (356, 3067), (361, 3088), (362, 3091), (365, 3097), (366, 3100), (367, 3106), (369, 3115), (372, 3130), (373, 3133), (381, 3163),

Gene: Sopespian_5 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for Sopespian_5:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: Soul22_4 Start: 2180, Stop: 3604, Start Num: 41

Candidate Starts for Soul22_4:

(Start: 41 @2180 has 32 MA's), (54, 2213), (71, 2267), (84, 2327), (87, 2336), (96, 2369), (102, 2402), (109, 2432), (121, 2477), (130, 2519), (131, 2528), (146, 2588), (160, 2648), (162, 2657), (163, 2660), (174, 2693), (183, 2714), (196, 2756), (207, 2786), (209, 2795), (212, 2807), (213, 2810), (224, 2867), (225, 2870), (226, 2876), (229, 2891), (236, 2921), (237, 2927), (251, 3005), (275, 3086), (286, 3140), (293, 3185), (296, 3200), (310, 3272), (323, 3317), (325, 3323), (350, 3431), (352, 3440), (354, 3449), (360, 3479), (365, 3494), (371, 3521),

Gene: Spartoi_3 Start: 1805, Stop: 3307, Start Num: 34

Candidate Starts for Spartoi_3:

(Start: 34 @1805 has 1 MA's), (64, 1889), (65, 1892), (97, 2015), (148, 2243), (182, 2369), (190, 2396), (211, 2465), (225, 2531), (233, 2564), (256, 2663), (257, 2672), (278, 2732), (279, 2738), (324, 2945), (341, 3020), (349, 3053), (354, 3074), (371, 3146), (404, 3242), (413, 3290),

Gene: Spooky_4 Start: 2190, Stop: 3626, Start Num: 41

Candidate Starts for Spooky_4:

(Start: 41 @2190 has 32 MA's), (54, 2220), (81, 2322), (83, 2331), (84, 2334), (87, 2343), (94, 2367), (109, 2439), (120, 2481), (131, 2535), (140, 2568), (146, 2595), (149, 2604), (165, 2673), (175, 2703), (177, 2709), (200, 2775), (207, 2793), (209, 2802), (212, 2814), (213, 2817), (225, 2877), (226, 2883), (231, 2907), (236, 2928), (237, 2934), (242, 2961), (244, 2979), (251, 3012), (266, 3063), (275, 3093), (286, 3147), (291, 3177), (296, 3207), (309, 3276), (325, 3330), (350, 3438), (359, 3480), (365, 3501), (371, 3528), (386, 3561), (392, 3573), (396, 3588),

Gene: Squiddly_5 Start: 2880, Stop: 4319, Start Num: 41

Candidate Starts for Squiddly_5:

(Start: 41 @2880 has 32 MA's), (47, 2895), (83, 3024), (84, 3027), (95, 3066), (102, 3102), (109, 3132), (120, 3174), (131, 3228), (149, 3297), (165, 3366), (175, 3396), (177, 3402), (179, 3408), (200, 3468), (207, 3486), (212, 3507), (213, 3510), (225, 3570), (226, 3576), (229, 3591), (231, 3600), (233, 3603), (236, 3621), (237, 3627), (242, 3654), (244, 3672), (251, 3705), (266, 3756), (275, 3786), (286, 3840), (296, 3900), (325, 4023), (350, 4131), (359, 4173), (365, 4194), (371, 4221), (386, 4254), (392, 4266), (396, 4281),

Gene: Starburst_6 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for Starburst_6:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470),

(234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: Stargaze_3 Start: 1909, Stop: 3513, Start Num: 20

Candidate Starts for Stargaze_3:

(Start: 20 @1909 has 1 MA's), (23, 1927), (Start: 41 @1990 has 32 MA's), (58, 2035), (Start: 59 @2038 has 60 MA's), (87, 2146), (96, 2179), (129, 2326), (130, 2329), (160, 2464), (185, 2539), (187, 2545), (189, 2548), (209, 2611), (212, 2623), (225, 2686), (234, 2725), (257, 2845), (275, 2902), (281, 2944), (282, 2947), (287, 2962), (288, 2965), (325, 3139), (381, 3370), (406, 3430),

Gene: SteamedHams_7 Start: 2796, Stop: 4250, Start Num: 59

Candidate Starts for SteamedHams_7:

(Start: 59 @2796 has 60 MA's), (65, 2820), (94, 2934), (96, 2943), (113, 3024), (134, 3108), (153, 3189), (200, 3336), (211, 3378), (222, 3429), (228, 3459), (233, 3477), (234, 3483), (280, 3711), (288, 3738), (290, 3753), (293, 3774), (310, 3858), (317, 3882), (356, 4026), (359, 4044), (363, 4056), (374, 4116), (375, 4119), (412, 4227),

Gene: Stellammi_3 Start: 2356, Stop: 3726, Start Num: 38

Candidate Starts for Stellammi_3:

(32, 2341), (Start: 38 @2356 has 3 MA's), (54, 2389), (61, 2413), (69, 2437), (74, 2458), (95, 2542), (100, 2569), (101, 2575), (102, 2578), (110, 2611), (111, 2620), (120, 2647), (121, 2650), (125, 2671), (137, 2725), (151, 2788), (158, 2818), (165, 2845), (171, 2863), (173, 2872), (177, 2884), (178, 2887), (184, 2902), (209, 2968), (213, 2983), (216, 3001), (224, 3040), (225, 3043), (226, 3049), (229, 3064), (234, 3082), (242, 3127), (244, 3145), (250, 3172), (255, 3190), (256, 3193), (271, 3244), (282, 3298), (285, 3307), (288, 3316), (292, 3343), (293, 3352), (295, 3361), (302, 3412), (308, 3433), (309, 3436), (317, 3463), (319, 3472), (323, 3484), (328, 3511), (332, 3523), (337, 3538), (345, 3565), (349, 3589), (363, 3646),

Gene: Stormborn_3 Start: 1887, Stop: 3212, Start Num: 52

Candidate Starts for Stormborn_3:

(Start: 52 @1887 has 45 MA's), (56, 1893), (Start: 59 @1902 has 60 MA's), (64, 1920), (71, 1941), (84, 2001), (92, 2025), (94, 2034), (96, 2043), (100, 2067), (102, 2076), (120, 2136), (128, 2175), (130, 2181), (134, 2202), (136, 2211), (145, 2241), (163, 2316), (164, 2319), (165, 2322), (180, 2361), (181, 2364), (185, 2376), (190, 2388), (205, 2433), (210, 2457), (211, 2460), (214, 2469), (235, 2571), (241, 2607), (243, 2616), (256, 2658), (257, 2667), (262, 2676), (275, 2709), (282, 2754), (288, 2772), (303, 2871), (317, 2916), (321, 2931), (326, 2946), (328, 2958), (337, 2991), (349, 3042), (356, 3069), (361, 3090), (362, 3093), (365, 3099), (369, 3117), (372, 3132), (373, 3135), (381, 3165),

Gene: Studio_5 Start: 2590, Stop: 4074, Start Num: 38

Candidate Starts for Studio_5:

(Start: 38 @2590 has 3 MA's), (79, 2719), (84, 2740), (110, 2848), (137, 2965), (139, 2971), (191, 3154), (224, 3280), (225, 3283), (234, 3322), (241, 3364), (256, 3433), (257, 3442), (279, 3508), (281, 3526), (282, 3529), (293, 3583), (297, 3622), (319, 3700), (359, 3856), (363, 3868), (395, 3970), (414, 4054),

Gene: SummitAcademy_4 Start: 2650, Stop: 4083, Start Num: 59

Candidate Starts for SummitAcademy_4:

(Start: 59 @2650 has 60 MA's), (65, 2674), (73, 2698), (100, 2818), (101, 2824), (110, 2860), (121, 2896), (124, 2914), (131, 2947), (137, 2971), (153, 3040), (160, 3073), (211, 3229), (222, 3280), (228, 3310), (234, 3334), (241, 3376), (256, 3445), (272, 3511), (288, 3583), (325, 3754), (334, 3787), (350, 3847), (355, 3868), (363, 3901), (374, 3961), (375, 3964), (412, 4075),

Gene: Supernova_3 Start: 1881, Stop: 3206, Start Num: 52

Candidate Starts for Supernova_3:

(Start: 52 @1881 has 45 MA's), (Start: 59 @1896 has 60 MA's), (64, 1914), (71, 1935), (82, 1986), (84, 1995), (86, 2001), (92, 2019), (94, 2028), (96, 2037), (97, 2040), (100, 2061), (102, 2070), (120, 2130), (134, 2196), (136, 2205), (145, 2235), (164, 2313), (165, 2316), (175, 2340), (181, 2358), (185, 2370), (201, 2415), (206, 2433), (207, 2436), (210, 2451), (211, 2454), (214, 2463), (233, 2553), (235, 2565), (243, 2610), (256, 2652), (257, 2661), (275, 2703), (277, 2718), (282, 2748), (284, 2754), (285, 2757), (288, 2766), (297, 2841), (303, 2865), (317, 2910), (335, 2979), (337, 2985), (349, 3036), (352, 3048), (361, 3084), (362, 3087), (365, 3093), (366, 3096), (367, 3102), (369, 3111), (372, 3126), (373, 3129), (381, 3159),

Gene: Survivors_7 Start: 3540, Stop: 4985, Start Num: 59

Candidate Starts for Survivors_7:

(Start: 59 @3540 has 60 MA's), (62, 3552), (64, 3558), (76, 3600), (82, 3630), (100, 3708), (120, 3777), (153, 3924), (203, 4083), (210, 4113), (213, 4122), (228, 4197), (234, 4221), (235, 4227), (253, 4323), (257, 4341), (265, 4371), (275, 4407), (288, 4470), (295, 4515), (315, 4605), (318, 4620), (322, 4632), (325, 4641), (331, 4665), (350, 4734), (359, 4776), (363, 4788), (364, 4791), (378, 4857), (384, 4863),

Gene: SweatNTears_7 Start: 3313, Stop: 4767, Start Num: 59

Candidate Starts for SweatNTears_7:

(Start: 59 @3313 has 60 MA's), (65, 3337), (94, 3451), (96, 3460), (132, 3616), (134, 3625), (153, 3706), (200, 3853), (211, 3895), (228, 3976), (233, 3994), (234, 4000), (255, 4108), (280, 4228), (288, 4255), (293, 4291), (317, 4399), (323, 4420), (356, 4543), (363, 4573), (374, 4633), (375, 4636), (412, 4744),

Gene: Sweets_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Sweets_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (351, 3154), (363, 3205),

Gene: TChen_3 Start: 2233, Stop: 3708, Start Num: 33

Candidate Starts for TChen_3:

(Start: 33 @2233 has 28 MA's), (37, 2245), (46, 2266), (54, 2287), (93, 2434), (96, 2446), (99, 2467), (100, 2470), (117, 2530), (123, 2557), (125, 2563), (130, 2584), (145, 2656), (146, 2659), (147, 2662), (149, 2668), (154, 2692), (158, 2710), (170, 2752), (175, 2764), (176, 2767), (189, 2800), (196, 2824), (200, 2830), (209, 2863), (210, 2869), (218, 2905), (224, 2935), (225, 2938), (226, 2944), (231, 2968), (234, 2977), (242, 3022), (244, 3040), (246, 3049), (262, 3112), (267, 3133), (273, 3160), (282, 3211), (289, 3232), (293, 3265), (295, 3274), (302, 3325), (303, 3328), (315, 3364), (323, 3394), (324, 3397), (331, 3427), (337, 3445), (355, 3520), (359, 3541), (370, 3586), (390, 3634),

Gene: TMaxx_5 Start: 2730, Stop: 4205, Start Num: 39

Candidate Starts for TMaxx_5:

(Start: 39 @2730 has 2 MA's), (79, 2853), (84, 2874), (139, 3105), (222, 3402), (225, 3417), (234, 3456), (256, 3567), (279, 3642), (281, 3660), (282, 3663), (297, 3756), (319, 3834), (356, 3972), (363, 4002), (367, 4020), (379, 4074), (414, 4188),

Gene: TPA4_3 Start: 2235, Stop: 3725, Start Num: 33

Candidate Starts for TPA4_3:

(13, 2079), (16, 2139), (Start: 33 @2235 has 28 MA's), (71, 2346), (96, 2451), (112, 2529), (121, 2547), (123, 2562), (145, 2661), (147, 2667), (201, 2841), (209, 2871), (210, 2877), (213, 2886), (234, 2985), (244, 3048), (246, 3057), (291, 3258), (315, 3372), (317, 3381), (331, 3435), (337, 3453), (350, 3507),

Gene: Taheera_3 Start: 1892, Stop: 3412, Start Num: 26

Candidate Starts for Taheera_3:

(1, 1325), (3, 1424), (5, 1460), (6, 1493), (7, 1508), (10, 1637), (Start: 26 @1892 has 69 MA's), (54, 1943), (58, 1955), (Start: 59 @1958 has 60 MA's), (96, 2099), (109, 2162), (129, 2246), (130, 2249), (151, 2339), (160, 2378), (225, 2597), (234, 2636), (249, 2723), (257, 2756), (275, 2813), (287, 2873), (288, 2876), (319, 3032), (363, 3209), (371, 3245), (377, 3272), (387, 3290),

Gene: Tarnish_5 Start: 2949, Stop: 4382, Start Num: 59

Candidate Starts for Tarnish_5:

(Start: 59 @2949 has 60 MA's), (65, 2973), (73, 2997), (100, 3117), (101, 3123), (110, 3159), (121, 3195), (124, 3213), (131, 3246), (137, 3270), (153, 3339), (160, 3372), (211, 3528), (222, 3579), (228, 3609), (234, 3633), (241, 3675), (256, 3744), (272, 3810), (288, 3882), (325, 4053), (334, 4086), (350, 4146), (355, 4167), (363, 4200), (374, 4260), (375, 4263), (412, 4374),

Gene: Terror_3 Start: 1892, Stop: 3412, Start Num: 26

Candidate Starts for Terror_3:

(1, 1325), (3, 1424), (5, 1460), (6, 1493), (7, 1508), (10, 1637), (Start: 26 @1892 has 69 MA's), (54, 1943), (58, 1955), (Start: 59 @1958 has 60 MA's), (96, 2099), (109, 2162), (129, 2246), (130, 2249), (151, 2339), (160, 2378), (225, 2597), (234, 2636), (249, 2723), (257, 2756), (275, 2813), (287, 2873), (288, 2876), (319, 3032), (363, 3209), (371, 3245), (377, 3272), (387, 3290),

Gene: Tesla_35 Start: 12482, Stop: 14047, Start Num: 22

Candidate Starts for Tesla_35:

(Start: 22 @12482 has 19 MA's), (Start: 59 @12599 has 60 MA's), (90, 12719), (100, 12764), (102, 12773), (125, 12863), (135, 12911), (136, 12914), (148, 12956), (149, 12959), (154, 12983), (175, 13055), (176, 13058), (191, 13097), (197, 13118), (198, 13121), (210, 13166), (229, 13256), (231, 13265), (234, 13274), (241, 13316), (242, 13319), (248, 13358), (259, 13400), (261, 13406), (262, 13409), (273, 13454), (288, 13523), (303, 13622), (307, 13634), (336, 13733), (351, 13799), (357, 13820), (359, 13835), (386, 13928), (393, 13943),

Gene: ThetaBob_3 Start: 2233, Stop: 3708, Start Num: 33

Candidate Starts for ThetaBob_3:

(Start: 33 @2233 has 28 MA's), (37, 2245), (46, 2266), (54, 2287), (93, 2434), (96, 2446), (99, 2467), (100, 2470), (117, 2530), (123, 2557), (125, 2563), (130, 2584), (145, 2656), (146, 2659), (147, 2662), (149, 2668), (154, 2692), (158, 2710), (170, 2752), (174, 2761), (176, 2767), (189, 2800), (196, 2824), (200, 2830), (209, 2863), (210, 2869), (218, 2905), (224, 2935), (225, 2938), (226, 2944), (234, 2977), (242, 3022), (244, 3040), (246, 3049), (262, 3112), (267, 3133), (273, 3160), (282, 3211), (289, 3232), (293, 3265), (295, 3274), (302, 3325), (303, 3328), (315, 3364), (323, 3394), (324, 3397), (331, 3427), (337, 3445), (355, 3520), (359, 3541), (370, 3586), (390, 3634),

Gene: TinaBug_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for TinaBug_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (351, 3154), (363, 3205),

Gene: Tolls_7 Start: 2797, Stop: 4251, Start Num: 59

Candidate Starts for Tolls_7:

(Start: 59 @2797 has 60 MA's), (65, 2821), (94, 2935), (96, 2944), (113, 3025), (134, 3109), (153, 3190), (200, 3337), (211, 3379), (222, 3430), (228, 3460), (233, 3478), (234, 3484), (280, 3712), (288,

3739), (290, 3754), (293, 3775), (310, 3859), (317, 3883), (356, 4027), (359, 4045), (363, 4057), (374, 4117), (375, 4120), (412, 4228),

Gene: TomBrady_3 Start: 1889, Stop: 3403, Start Num: 26

Candidate Starts for TomBrady_3:

(1, 1322), (6, 1490), (7, 1505), (10, 1634), (Start: 26 @1889 has 69 MA's), (58, 1952), (Start: 59 @1955 has 60 MA's), (61, 1964), (96, 2096), (129, 2243), (130, 2246), (151, 2336), (160, 2375), (163, 2387), (185, 2450), (187, 2456), (202, 2498), (212, 2531), (225, 2594), (234, 2633), (241, 2675), (249, 2720), (256, 2744), (257, 2753), (275, 2810), (281, 2852), (287, 2870), (288, 2873), (319, 3029), (344, 3119), (351, 3155), (363, 3206), (368, 3230),

Gene: Toron_3 Start: 2233, Stop: 3708, Start Num: 33

Candidate Starts for Toron_3:

(Start: 33 @2233 has 28 MA's), (37, 2245), (46, 2266), (54, 2287), (93, 2434), (99, 2467), (100, 2470), (117, 2530), (123, 2557), (130, 2584), (145, 2656), (147, 2662), (149, 2668), (158, 2710), (174, 2761), (176, 2767), (189, 2800), (196, 2824), (200, 2830), (209, 2863), (210, 2869), (218, 2905), (225, 2938), (234, 2977), (242, 3022), (244, 3040), (246, 3049), (262, 3112), (273, 3160), (282, 3211), (289, 3232), (293, 3265), (295, 3274), (302, 3325), (303, 3328), (315, 3364), (323, 3394), (324, 3397), (329, 3415), (331, 3427), (337, 3445), (351, 3505), (355, 3520), (359, 3541), (365, 3562), (370, 3586), (390, 3634),

Gene: TripleC_8 Start: 6194, Stop: 7672, Start Num: 38

Candidate Starts for TripleC_8:

(Start: 38 @6194 has 3 MA's), (50, 6218), (79, 6320), (84, 6341), (139, 6572), (225, 6884), (234, 6923), (245, 6992), (256, 7034), (278, 7103), (279, 7109), (281, 7127), (282, 7130), (297, 7223), (319, 7301), (359, 7457), (363, 7469), (367, 7487), (379, 7541), (414, 7655),

Gene: Troje_5 Start: 2787, Stop: 4241, Start Num: 59

Candidate Starts for Troje_5:

(Start: 59 @2787 has 60 MA's), (65, 2811), (94, 2925), (96, 2934), (132, 3090), (134, 3099), (153, 3180), (211, 3369), (228, 3450), (233, 3468), (234, 3474), (280, 3702), (288, 3729), (293, 3765), (317, 3873), (323, 3894), (356, 4017), (363, 4047), (374, 4107), (375, 4110), (412, 4218),

Gene: Typhonomachy_5 Start: 2789, Stop: 4246, Start Num: 59

Candidate Starts for Typhonomachy_5:

(Start: 59 @2789 has 60 MA's), (65, 2813), (93, 2924), (94, 2927), (96, 2936), (113, 3017), (134, 3101), (137, 3113), (153, 3182), (200, 3329), (211, 3371), (224, 3434), (228, 3452), (229, 3458), (233, 3470), (234, 3476), (256, 3587), (280, 3704), (288, 3731), (293, 3767), (323, 3896), (325, 3902), (334, 3935), (349, 3992), (350, 3995), (356, 4019), (363, 4049), (374, 4109), (375, 4112), (412, 4223),

Gene: VasuNzinga_36 Start: 12066, Stop: 13631, Start Num: 22

Candidate Starts for VasuNzinga_36:

(Start: 22 @12066 has 19 MA's), (Start: 59 @12183 has 60 MA's), (90, 12303), (100, 12348), (102, 12357), (125, 12447), (135, 12495), (136, 12498), (148, 12540), (149, 12543), (154, 12567), (175, 12639), (176, 12642), (191, 12681), (197, 12702), (198, 12705), (210, 12750), (229, 12840), (231, 12849), (234, 12858), (241, 12900), (242, 12903), (248, 12942), (259, 12984), (261, 12990), (262, 12993), (273, 13038), (288, 13107), (303, 13206), (307, 13218), (336, 13317), (351, 13383), (357, 13404), (359, 13419), (386, 13512), (393, 13527),

Gene: Vine_6 Start: 3574, Stop: 5007, Start Num: 59

Candidate Starts for Vine_6:

(Start: 59 @3574 has 60 MA's), (65, 3598), (100, 3742), (101, 3748), (110, 3784), (121, 3820), (124, 3838), (131, 3871), (137, 3895), (153, 3964), (160, 3997), (211, 4153), (222, 4204), (228, 4234), (234, 4258), (241, 4300), (256, 4369), (272, 4435), (288, 4507), (325, 4678), (334, 4711), (350, 4771), (355,

4792), (363, 4825), (374, 4885), (375, 4888), (412, 4999),

Gene: WST1_3 Start: 2156, Stop: 3616, Start Num: 47

Candidate Starts for WST1_3:

(Start: 41 @2144 has 32 MA's), (47, 2156), (53, 2171), (75, 2243), (82, 2276), (96, 2330), (120, 2435), (151, 2570), (165, 2627), (178, 2666), (202, 2735), (209, 2756), (224, 2828), (225, 2831), (229, 2852), (230, 2858), (234, 2870), (241, 2912), (255, 2981), (256, 2984), (283, 3098), (294, 3155), (319, 3269), (325, 3287), (354, 3407), (387, 3515), (397, 3539),

Gene: Wallaby_8 Start: 3685, Stop: 5130, Start Num: 59

Candidate Starts for Wallaby_8:

(Start: 59 @3685 has 60 MA's), (62, 3697), (64, 3703), (76, 3745), (82, 3775), (100, 3853), (120, 3922), (153, 4069), (203, 4228), (210, 4258), (213, 4267), (228, 4342), (234, 4366), (235, 4372), (253, 4468), (257, 4486), (265, 4516), (275, 4552), (288, 4615), (295, 4660), (315, 4750), (318, 4765), (322, 4777), (325, 4786), (331, 4810), (350, 4879), (359, 4921), (363, 4933), (364, 4936), (378, 5002), (384, 5008),

Gene: Wendigo_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Wendigo_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Whitney_4 Start: 2191, Stop: 3627, Start Num: 41

Candidate Starts for Whitney_4:

(Start: 41 @2191 has 32 MA's), (75, 2293), (83, 2332), (84, 2335), (109, 2440), (120, 2482), (126, 2512), (131, 2536), (140, 2569), (225, 2878), (236, 2929), (237, 2935), (242, 2962), (244, 2980), (251, 3013), (266, 3064), (275, 3094), (286, 3148), (288, 3157), (291, 3178), (296, 3208), (325, 3331), (350, 3439), (365, 3502), (386, 3562), (396, 3589), (398, 3592),

Gene: Whitty_4 Start: 2624, Stop: 4189, Start Num: 24

Candidate Starts for Whitty_4:

(17, 2567), (18, 2576), (19, 2579), (Start: 24 @2624 has 7 MA's), (28, 2642), (61, 2732), (63, 2741), (67, 2753), (96, 2870), (107, 2924), (110, 2936), (114, 2960), (133, 3035), (136, 3050), (140, 3062), (144, 3074), (153, 3113), (186, 3230), (190, 3239), (193, 3248), (207, 3296), (212, 3317), (221, 3362), (222, 3365), (233, 3413), (239, 3449), (249, 3506), (265, 3563), (289, 3647), (291, 3665), (299, 3728), (311, 3770), (319, 3800), (355, 3932), (367, 3983), (386, 4046), (391, 4055),

Gene: Wizzo_3 Start: 1886, Stop: 3211, Start Num: 52

Candidate Starts for Wizzo_3:

(Start: 52 @1886 has 45 MA's), (Start: 59 @1901 has 60 MA's), (64, 1919), (71, 1940), (82, 1991), (84, 2000), (86, 2006), (92, 2024), (94, 2033), (96, 2042), (97, 2045), (100, 2066), (102, 2075), (117, 2126), (120, 2135), (128, 2174), (130, 2180), (134, 2201), (136, 2210), (145, 2240), (146, 2243), (164, 2318), (165, 2321), (180, 2360), (181, 2363), (185, 2375), (190, 2387), (205, 2432), (206, 2438), (210, 2456), (211, 2459), (214, 2468), (233, 2558), (235, 2570), (243, 2615), (256, 2657), (257, 2666), (262, 2675), (275, 2708), (282, 2753), (285, 2762), (288, 2771), (291, 2792), (297, 2846), (303, 2870), (335, 2984), (337, 2990), (349, 3041), (352, 3053), (356, 3068), (361, 3089), (362, 3092), (365, 3098), (366, 3101), (369, 3116), (372, 3131), (373, 3134), (381, 3164),

Gene: Wolfwood_8 Start: 3685, Stop: 5130, Start Num: 59

Candidate Starts for Wolfwood_8:

(Start: 59 @3685 has 60 MA's), (62, 3697), (64, 3703), (76, 3745), (82, 3775), (100, 3853), (120, 3922), (153, 4069), (203, 4228), (210, 4258), (213, 4267), (228, 4342), (234, 4366), (235, 4372), (253, 4468), (257, 4486), (265, 4516), (275, 4552), (288, 4615), (295, 4660), (315, 4750), (318, 4765), (322, 4777), (325, 4786), (331, 4810), (350, 4879), (359, 4921), (363, 4933), (364, 4936), (378, 5002), (384, 5008),

Gene: Wrigley_3 Start: 2278, Stop: 3726, Start Num: 33

Candidate Starts for Wrigley_3:

(13, 2125), (Start: 33 @2278 has 28 MA's), (48, 2296), (95, 2464), (101, 2497), (112, 2545), (128, 2602), (131, 2617), (187, 2812), (209, 2881), (211, 2890), (234, 2995), (253, 3097), (259, 3121), (262, 3130), (272, 3166), (282, 3220), (293, 3274), (299, 3319), (312, 3364), (323, 3403), (324, 3406), (325, 3409), (337, 3454), (403, 3673),

Gene: Yakult_6 Start: 2761, Stop: 4203, Start Num: 59

Candidate Starts for Yakult_6:

(Start: 59 @2761 has 60 MA's), (64, 2776), (91, 2878), (96, 2899), (97, 2902), (101, 2929), (110, 2965), (127, 3034), (134, 3064), (138, 3079), (147, 3121), (165, 3196), (209, 3325), (211, 3334), (212, 3337), (224, 3397), (228, 3415), (229, 3421), (234, 3439), (235, 3445), (265, 3589), (268, 3598), (288, 3688), (290, 3703), (325, 3859), (331, 3883), (334, 3892), (337, 3901), (352, 3961), (356, 3976), (374, 4066), (381, 4081), (412, 4192),

Gene: YangYin_3 Start: 1990, Stop: 3513, Start Num: 41

Candidate Starts for YangYin_3:

(Start: 20 @1909 has 1 MA's), (23, 1927), (Start: 41 @1990 has 32 MA's), (58, 2035), (Start: 59 @2038 has 60 MA's), (87, 2146), (96, 2179), (129, 2326), (130, 2329), (160, 2464), (185, 2539), (187, 2545), (189, 2548), (209, 2611), (212, 2623), (225, 2686), (234, 2725), (257, 2845), (275, 2902), (281, 2944), (282, 2947), (287, 2962), (288, 2965), (325, 3139), (381, 3370), (406, 3430),

Gene: Yarn_4 Start: 2790, Stop: 4244, Start Num: 59

Candidate Starts for Yarn_4:

(Start: 59 @2790 has 60 MA's), (65, 2814), (94, 2928), (96, 2937), (113, 3018), (134, 3102), (153, 3183), (200, 3330), (211, 3372), (222, 3423), (228, 3453), (233, 3471), (234, 3477), (280, 3705), (288, 3732), (290, 3747), (293, 3768), (310, 3852), (317, 3876), (356, 4020), (359, 4038), (363, 4050), (364, 4053), (374, 4110), (375, 4113), (412, 4221),

Gene: Yoshi_4 Start: 2180, Stop: 3604, Start Num: 41

Candidate Starts for Yoshi_4:

(Start: 41 @2180 has 32 MA's), (54, 2213), (73, 2273), (84, 2327), (87, 2336), (96, 2369), (109, 2432), (121, 2477), (130, 2519), (131, 2528), (140, 2561), (146, 2588), (160, 2648), (162, 2657), (163, 2660), (174, 2693), (183, 2714), (196, 2756), (207, 2786), (209, 2795), (212, 2807), (213, 2810), (224, 2867), (225, 2870), (226, 2876), (231, 2900), (236, 2921), (237, 2927), (244, 2972), (251, 3005), (256, 3020), (275, 3086), (286, 3140), (293, 3185), (296, 3200), (310, 3272), (323, 3317), (325, 3323), (350, 3431), (352, 3440), (354, 3449), (360, 3479), (365, 3494), (371, 3521),

Gene: Yucky_5 Start: 3435, Stop: 4868, Start Num: 59

Candidate Starts for Yucky_5:

(Start: 59 @3435 has 60 MA's), (65, 3459), (100, 3603), (101, 3609), (110, 3645), (121, 3681), (124, 3699), (131, 3732), (137, 3756), (153, 3825), (160, 3858), (211, 4014), (222, 4065), (228, 4095), (234, 4119), (241, 4161), (256, 4230), (260, 4248), (272, 4296), (288, 4368), (325, 4539), (334, 4572), (350, 4632), (355, 4653), (363, 4686), (374, 4746), (375, 4749), (412, 4860),

Gene: Yummy_6 Start: 2693, Stop: 4147, Start Num: 59

Candidate Starts for Yummy_6:

(Start: 59 @2693 has 60 MA's), (65, 2717), (94, 2831), (96, 2840), (123, 2957), (132, 2996), (134, 3005), (153, 3086), (200, 3233), (211, 3275), (228, 3356), (233, 3374), (234, 3380), (255, 3488), (280, 3608), (288, 3635), (293, 3671), (317, 3779), (323, 3800), (356, 3923), (363, 3953), (374, 4013), (375, 4016), (380, 4025), (412, 4124),

Gene: Zapner_5 Start: 2705, Stop: 4129, Start Num: 41

Candidate Starts for Zapner_5:

(Start: 41 @2705 has 32 MA's), (54, 2738), (71, 2792), (84, 2852), (87, 2861), (96, 2894), (102, 2927), (109, 2957), (121, 3002), (124, 3020), (130, 3044), (131, 3053), (146, 3113), (160, 3173), (162, 3182), (163, 3185), (174, 3218), (183, 3239), (196, 3281), (209, 3320), (212, 3332), (213, 3335), (224, 3392), (225, 3395), (226, 3401), (229, 3416), (236, 3446), (237, 3452), (251, 3530), (275, 3611), (286, 3665), (293, 3710), (296, 3725), (310, 3797), (323, 3842), (325, 3848), (350, 3956), (352, 3965), (354, 3974), (360, 4004), (365, 4019), (371, 4046),

Gene: Zareef_7 Start: 3687, Stop: 5132, Start Num: 59

Candidate Starts for Zareef_7:

(Start: 59 @3687 has 60 MA's), (62, 3699), (64, 3705), (76, 3747), (82, 3777), (100, 3855), (120, 3924), (153, 4071), (203, 4230), (210, 4260), (213, 4269), (228, 4344), (234, 4368), (235, 4374), (253, 4470), (257, 4488), (265, 4518), (275, 4554), (288, 4617), (295, 4662), (315, 4752), (318, 4767), (322, 4779), (325, 4788), (331, 4812), (350, 4881), (359, 4923), (363, 4935), (364, 4938), (378, 5004), (384, 5010),

Gene: ZenTime222_4 Start: 2624, Stop: 4189, Start Num: 24

Candidate Starts for ZenTime222_4:

(17, 2567), (18, 2576), (19, 2579), (Start: 24 @2624 has 7 MA's), (28, 2642), (61, 2732), (63, 2741), (67, 2753), (96, 2870), (107, 2924), (110, 2936), (114, 2960), (133, 3035), (136, 3050), (140, 3062), (144, 3074), (153, 3113), (186, 3230), (190, 3239), (193, 3248), (207, 3296), (212, 3317), (221, 3362), (222, 3365), (233, 3413), (239, 3449), (249, 3506), (265, 3563), (289, 3647), (291, 3665), (299, 3728), (311, 3770), (319, 3800), (355, 3932), (367, 3983), (386, 4046), (391, 4055),

Gene: ZoMa_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for ZoMa_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (185, 2449), (187, 2455), (192, 2467), (209, 2518), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Zombie_3 Start: 1888, Stop: 3402, Start Num: 26

Candidate Starts for Zombie_3:

(1, 1321), (6, 1489), (7, 1504), (10, 1633), (Start: 26 @1888 has 69 MA's), (58, 1951), (Start: 59 @1954 has 60 MA's), (61, 1963), (96, 2095), (129, 2242), (130, 2245), (151, 2335), (160, 2374), (163, 2386), (185, 2449), (187, 2455), (202, 2497), (212, 2530), (225, 2593), (234, 2632), (241, 2674), (249, 2719), (256, 2743), (257, 2752), (275, 2809), (281, 2851), (287, 2869), (288, 2872), (319, 3028), (344, 3118), (351, 3154), (363, 3205), (368, 3229),

Gene: Zucker_4 Start: 2313, Stop: 3752, Start Num: 43

Candidate Starts for Zucker_4:

(Start: 43 @2313 has 3 MA's), (48, 2328), (64, 2373), (75, 2412), (78, 2427), (92, 2478), (96, 2496), (100, 2520), (112, 2580), (127, 2637), (134, 2667), (172, 2802), (177, 2820), (193, 2859), (225, 2985), (228, 3000), (231, 3015), (241, 3066), (252, 3123), (281, 3243), (288, 3264), (289, 3267), (292, 3291), (303, 3363), (310, 3384), (315, 3399), (317, 3408), (322, 3426), (325, 3435), (330, 3462), (335, 3483), (339, 3498), (350, 3543), (359, 3582), (360, 3588), (365, 3603), (370, 3627), (400, 3708),