

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 296220 Report

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

Pham number 296220 has 240 members, 28 are drafts.

Phages represented in each track:

- Track 1 : NoShow_16
- Track 2 : PinkYoshi_16, Darionha_16, CLED96_16, Frosty24_16, ShaboiShabazz_16, Crespo_16, Jeilious_16, Gomashi_16, DingDing_16, LouisV14_16, Jolene_16, Rattrick_16, Periodt_16, AizenPogi_16, BQuat_16, Jane_16, Gideon_16, Peeb_16, GoldenAsh_16, CassieYates_16, Camri_16, Angel_16, Halo_16, OctaviousRex_16, DMoney_16, ECartman_16, Barkley26_16, Kasen3_16, Wendigo_16, Richarlison_16, Remy19_16, BPs_16, ZoMa_16, DNAll_0016, JorRay_16, Sweets_16, Maliketh_16, Phloodle_16, Neoh_16, Jonghyun_16, Cherrybomb426_16, Sizemore_16, Schiebel_16, Plagueis_16, Phreak_16, Olga_16, Aroostook_16, Ruriko_16, Phish_16, Hope_16, Zombie_16, MZKinsey_16, Coleslaw_16, Hotshotbaby7_16, Mowgli_16, Avrafan_16, Chance64_16, BruceB_16, TinaBug_16, Marmie_16, Cedasite_16, TomBrady_16, Renaissance_16, Annihilator_16, Kareem_16, AzulaCat_16
- Track 3 : Paito_16
- Track 4 : Grizzly_16
- Track 5 : Taheera_16, Terror_16
- Track 6 : Rabbs_16, Sneeze_16
- Track 7 : Liefie_16
- Track 8 : Cambiare_17
- Track 9 : GodSpeed_17
- Track 10 : Cloudyecho_16
- Track 11 : MOOREtheMARYer_16
- Track 12 : Pinnie_17
- Track 13 : Lemuria_16
- Track 14 : Jolie2_16
- Track 15 : Mercurio_17
- Track 16 : YangYin_16
- Track 17 : Stargaze_16
- Track 18 : Antsirabe_16
- Track 19 : Piatt_21, Durfee_21, BaghaKamala_21, JAWS_21, Boiii_21, Peel_21, Padfoot_21, Topper_21, Dalmuri_21, Inky_21, Asayake_21, BGlluviae_21, Capricorn_21, Jeckyll_21, CREW_21, Rosmarinus_21, Twitch_21, Blizzard_21, BarrelRoll_21, BEEST_21, Hyperbowlee_21, Jarvi_21, Spock_21, ShiaSurprise_21, Lunahalos_21, CaseJules_21
- Track 20 : LilPharaoh_17, Mdavu_17, Teejan_17, Nutello_17, Amelie_17, SgtBeansprout_17, Enkosi_17, Trice_17, Torres_17, Binglebops_17
- Track 21 : Apocalypse_21

- Track 22 : TingHuaYa_21
- Track 23 : Murucutumbu_21, Ageofdapage_21, Stinson_21, LaterM_21
- Track 24 : Slimphazie_21, Jayhawk_21, HedwigODU_21, Atiba_21, ActinUp_21, Tachez_21, Zabiza_21, Ramen_21, Adephagia_21, TruffulaTree_21, Rapunzel97_21
- Track 25 : Chavito_21
- Track 26 : CrimD_21
- Track 27 : Bella96_21, DartGoblin_21
- Track 28 : McMater_21, Peanam_21, Niklas_21, Dartin_21, Richo_21
- Track 29 : YoureAdopted_20
- Track 30 : Devera_21, Dole_21, Illumine_21
- Track 31 : Joy99_21, Geraldini_21, MeaningOfLife_21
- Track 32 : Mynx_21, Pokerus_20
- Track 33 : Prithvi_21, LindNT_21, TreyKay_21
- Track 34 : Clipper_21, MacKat_21
- Track 35 : MarkPhew_21
- Track 36 : CheetoDust_21
- Track 37 : TaiwanKao_22
- Track 38 : Adonis_21
- Track 39 : Oscar_20
- Track 40 : AlishaPH_21, Emerson_21, Padpat_21
- Track 41 : Zavala_21
- Track 42 : Angelica_21, Sulley_21, Deby_21
- Track 43 : Anma_21, DrHayes_21, Urkel_21, SamuelLPlaqson_21
- Track 44 : Tiri_21
- Track 45 : Anaya_22
- Track 46 : Guanica15_21, Yunkel11_21
- Track 47 : Validus_21
- Track 48 : Nibb_20
- Track 49 : Nikao_17
- Track 50 : Curiosium_22
- Track 51 : Pisa1_20, Pisa4_20
- Track 52 : Beezoo_21
- Track 53 : CallaLilly_21
- Track 54 : Shaobing_21
- Track 55 : LeMond_20
- Track 56 : Scarlett_20
- Track 57 : Veliki_21
- Track 58 : TiniBug_21
- Track 59 : Bern_21
- Track 60 : KiSi_20
- Track 61 : Chris_20
- Track 62 : Ganymede_22
- Track 63 : Efra2_21
- Track 64 : LastHope_21
- Track 65 : Homura_21
- Track 66 : QuincyRose_20
- Track 67 : Megsy_21
- Track 68 : Llorens_21
- Track 69 : ZoeJ_17
- Track 70 : Milly_17
- Track 71 : BoostSeason_17
- Track 72 : Mufasa_17
- Track 73 : Strobilo_17

- Track 74 : Doughnut_17
- Track 75 : DismalFunk_17, Marcoliusprime_17, DismalStressor_17
- Track 76 : Findley_17
- Track 77 : MacnCheese_21
- Track 78 : TBond007_20
- Track 79 : Pharb_20
- Track 80 : Keshu_20
- Track 81 : Pixie_20
- Track 82 : Hurricane_20
- Track 83 : TribbleTrouble_19
- Track 84 : Lea83_20, ShedlockHolmes_20
- Track 85 : PhelpsODU_20, Unicorn_20
- Track 86 : Krueger_20
- Track 87 : Syra333_20
- Track 88 : Cain_20, Tierra_20, Bryler_20, Phrank_20
- Track 89 : Shadow1_19
- Track 90 : TClif_20
- Track 91 : Yuna_21
- Track 92 : Ximenita_21
- Track 93 : SirPhilip_20
- Track 94 : Sunflower1121_19
- Track 95 : Marshawn_22
- Track 96 : Tigress9_20
- Track 97 : Aminay_19

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

The start number called the most often in the published annotations is 13, it was called in 163 of the 212 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ActinUp_21, Adephagia_21, Adonis_21, Ageofdapage_21, AizenPogi_16, AlishaPH_21, Amelie_17, Aminay_19, Anaya_22, Angel_16, Angelica_21, Anma_21, Annihilator_16, Apocalypse_21, Aroostook_16, Asayake_21, Atiba_21, Avrafan_16, AzulaCat_16, BEEST_21, BGlluviae_21, BPs_16, BQuat_16, BaghaKamala_21, Barkley26_16, BarrelRoll_21, Beezoo_21, Bella96_21, Bern_21, Binglebops_17, Blizzard_21, Boiiii_21, BruceB_16, CLED96_16, CREW_21, CallaLilly_21, Camri_16, Capricorn_21, CaseJules_21, CassieYates_16, Cedasite_16, Chance64_16, CheetoDust_21, Cherrybomb426_16, Clipper_21, Coleslaw_16, Crespo_16, CrimD_21, DMoney_16, DNAIII_0016, Dalmuri_21, Darionha_16, DartGoblin_21, Deby_21, Devera_21, DingDing_16, Dole_21, DrHayes_21, Durfee_21, ECartman_16, Emerson_21, Enkosi_17, Frosty24_16, Ganymede_22, Geraldini_21, Gideon_16, GoldenAsh_16, Gomashi_16, Grizzly_16, Halo_16, HedwigODU_21, Homura_21, Hope_16, Hotshotbaby7_16, Hurricane_20, Hyperbowlee_21, Illumine_21, Inky_21, JAWS_21, Jane_16, Jarvi_21, Jayhawk_21, Jeckyll_21, Jeilious_16, Jolene_16, Jonghyun_16, JorRay_16, Joy99_21, Kareem_16, Kasen3_16, Keshu_20, LaterM_21, Lea83_20, Liefie_16, LilPharaoh_17, LindNT_21, Llorens_21, LouisV14_16, Lunahalos_21, MZKinsey_16, MacKat_21, MacnCheese_21, Maliketh_16, Marmie_16, Mdavu_17, MeaningOfLife_21, Megsy_21, Mowgli_16, Murucutumbu_21, Mynx_21, Neoh_16, Nikao_17, Nutello_17,

OctaviousRex_16, Olga_16, Padfoot_21, Padpat_21, Paito_16, Peeb_16, Peel_21, Periodt_16, Pharb_20, Phish_16, Phloodle_16, Phreak_16, Piatt_21, PinkYoshi_16, Pisa1_20, Pisa4_20, Pixie_20, Plagueis_16, Pokerus_20, Prithvi_21, QuincyRose_20, Rabbs_16, Ramen_21, Rapunzel97_21, Rattrick_16, Remy19_16, Renaissance_16, Richarlison_16, Rosmarinus_21, Ruriko_16, SamuelLPlaqson_21, Schiebel_16, SgtBeansprout_17, ShaboiShabazz_16, ShedlockHolmes_20, ShiaSurprise_21, Sizemore_16, Slimphazie_21, Sneeze_16, Spock_21, Stinson_21, Sulley_21, Sweets_16, TBond007_20, Tachez_21, Taheera_16, TaiwanKao_22, Teejan_17, Terror_16, TinaBug_16, TiniBug_21, Tiri_21, TomBrady_16, Topper_21, Torres_17, TreyKay_21, TribbleTrouble_19, Trice_17, TruffulaTree_21, Twitch_21, Urkel_21, Veliki_21, Wendigo_16, YoureAdopted_20, Zabiza_21, Zavala_21, ZoMa_16, Zombie_16,

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

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

- Antsirabe_16, BoostSeason_17, Bryler_20, Cain_20, Cambiare_17, Chavito_21, Chris_20, Cloudyecho_16, Curiosium_22, Dartin_21, DismalFunk_17, DismalStressor_17, Doughnut_17, Efra2_21, Findley_17, GodSpeed_17, Guanica15_21, Jolie2_16, KiSi_20, Krueger_20, LastHope_21, LeMond_20, Lemuria_16, MOOREtheMARYer_16, Marcoliusprime_17, MarkPhew_21, Marshawn_22, McMatr_21, Mercurio_17, Milly_17, Mufasa_17, Nibb_20, Niklas_21, NoShow_16, Oscar_20, Peanam_21, PhelpsODU_20, Phrank_20, Pinnie_17, Richo_21, Scarlett_20, Shadow1_19, Shaobing_21, SirPhilip_20, Stargaze_16, Strobilo_17, Sunflower1121_19, Syra333_20, TClif_20, Tierra_20, Tigress9_20, TingHuaYa_21, Unicorn_20, Validus_21, Ximenita_21, YangYin_16, Yuna_21, Yunkel11_21, ZoeJ_17,

Summary by start number:

Start 5:

- Found in 1 of 240 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 212
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_16 (AB),

Start 12:

- Found in 10 of 240 (4.2%) of genes in pham
- Manual Annotations of this start: 10 of 212
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoostSeason_17 (K2), DismalFunk_17 (K2), DismalStressor_17 (K2), Doughnut_17 (K2), Findley_17 (K2), Marcoliusprime_17 (K2), Milly_17 (K2), Mufasa_17 (K2), Strobilo_17 (K2), ZoeJ_17 (K2),

Start 13:

- Found in 181 of 240 (75.4%) of genes in pham
- Manual Annotations of this start: 163 of 212
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ActinUp_21 (K1), Adephagia_21 (K1), Adonis_21 (K1), Ageofdapage_21 (K1), AizenPogi_16 (G1), AlishaPH_21 (K1), Amelie_17 (K1), Aminay_19 (K7), Anaya_22 (K1), Angel_16 (G1), Angelica_21 (K1),

Anma_21 (K1), Annihilator_16 (G1), Apocalypse_21 (K1), Aroostook_16 (G1), Asayake_21 (K1), Atiba_21 (K1), Avrafan_16 (G1), AzulaCat_16 (G1), BEEST_21 (K1), BGIluviae_21 (K1), BPs_16 (G1), BQuat_16 (G1), BaghaKamala_21 (K1), Barkley26_16 (G1), BarrelRoll_21 (K1), Beezoo_21 (K1), Bella96_21 (K1), Bern_21 (K1), Binglebops_17 (K1), Blizzard_21 (K1), Boiii_21 (K1), BruceB_16 (G1), CLED96_16 (G1), CREW_21 (K1), CallaLilly_21 (K1), Camri_16 (G1), Capricorn_21 (K1), CaseJules_21 (K1), CassieYates_16 (G1), Cedasite_16 (G1), Chance64_16 (G1), CheetoDust_21 (K1), Cherrybomb426_16 (G1), Clipper_21 (K1), Coleslaw_16 (G1), Crespo_16 (G1), CrimD_21 (K1), DMoney_16 (G1), DNAlll_0016 (G1), Dalmuri_21 (K1), Darionha_16 (G1), DartGoblin_21 (K1), Deby_21 (K1), Devera_21 (K1), DingDing_16 (G1), Dole_21 (K1), DrHayes_21 (K1), Durfee_21 (K1), ECartman_16 (G1), Emerson_21 (K1), Enkosi_17 (K1), Frosty24_16 (G1), Ganymede_22 (K1), Geraldini_21 (K1), Gideon_16 (G1), GoldenAsh_16 (G1), Gomashi_16 (G1), Grizzly_16 (G1), Halo_16 (G1), HedwigODU_21 (K1), Homura_21 (K1), Hope_16 (G1), Hotshotbaby7_16 (G1), Hurricane_20 (K3), Hyperbowlee_21 (K1), Illumine_21 (K1), Inky_21 (K1), JAWS_21 (K1), Jane_16 (G1), Jarvi_21 (K1), Jayhawk_21 (K1), Jeckyll_21 (K1), Jeilious_16 (G), Jolene_16 (G1), Jonghyun_16 (G1), JorRay_16 (G1), Joy99_21 (K1), Kareem_16 (G1), Kasen3_16 (G1), Keshu_20 (K3), LaterM_21 (K1), Lea83_20 (K3), Liefie_16 (G1), LilPharaoh_17 (K1), LindNT_21 (K1), Llorens_21 (K1), LouisV14_16 (G1), Lunahalos_21 (K1), MZKinsey_16 (G1), MacKat_21 (K1), MacnCheese_21 (K3), Maliketh_16 (G1), Marmie_16 (G1), Mdavu_17 (K1), MeaningOfLife_21 (K1), Megsy_21 (K1), Mowgli_16 (G1), Murucutumbu_21 (K1), Mynx_21 (K1), Neoh_16 (G), Nikao_17 (K1), Nutello_17 (K1), OctaviousRex_16 (G1), Olga_16 (G1), Padfoot_21 (K1), Padpat_21 (K1), Paito_16 (G1), Peeb_16 (G1), Peel_21 (K1), Periodt_16 (G1), Pharb_20 (K3), Phish_16 (G1), Phloodle_16 (G1), Phreak_16 (G1), Piatt_21 (K1), PinkYoshi_16 (G1), Pisa1_20 (K1), Pisa4_20 (K1), Pixie_20 (K3), Plagueis_16 (G1), Pokerus_20 (K1), Prithvi_21 (K1), QuincyRose_20 (K1), Rabbs_16 (G1), Ramen_21 (K1), Rapunzel97_21 (K1), Rattrick_16 (G1), Remy19_16 (G1), Renaissance_16 (G1), Richarlison_16 (G1), Rosmarinus_21 (K1), Ruriko_16 (G1), SamuelLPagson_21 (K1), Schiebel_16 (G1), SgtBeansprout_17 (K1), ShaboiShabazz_16 (G1), ShedlockHolmes_20 (K3), ShiaSurprise_21 (K1), Sizemore_16 (G1), Slimphazie_21 (K1), Sneeze_16 (G1), Spock_21 (K1), Stinson_21 (K1), Sulley_21 (K1), Sweets_16 (G1), TBond007_20 (K3), Tachez_21 (K1), Taheera_16 (G1), TaiwanKao_22 (K1), Teejan_17 (K1), Terror_16 (G1), TinaBug_16 (G1), TiniBug_21 (K1), Tiri_21 (K1), TomBrady_16 (G1), Topper_21 (K1), Torres_17 (K1), TreyKay_21 (K1), TribleTrouble_19 (K3), Trice_17 (K1), TruffulaTree_21 (K1), Twitch_21 (K1), Urkel_21 (K1), Veliki_21 (K1), Wendigo_16 (G1), YoureAdopted_20 (K1), Zabiza_21 (K1), ZavaLa_21 (K1), ZoMa_16 (G1), Zombie_16 (G1),

Start 14:

- Found in 48 of 240 (20.0%) of genes in pham
- Manual Annotations of this start: 38 of 212
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_16 (G5), Bryler_20 (K6), Cain_20 (K6), Cambiare_17 (G2), Chavito_21 (K1), Chris_20 (K1), Cloudyecho_16 (G3), Curiosium_22 (K1), Dartin_21 (K1), Efra2_21 (K1), GodSpeed_17 (G2), Guanica15_21 (K1), Jolie2_16 (G4), KiSi_20 (K1), Krueger_20 (K6), LastHope_21 (K1), LeMond_20 (K1), Lemuria_16 (G4), MOOREtheMARYer_16 (G3), MarkPhew_21 (K1), Marshawn_22 (K6), McMater_21 (K1), Mercurio_17 (G4), Nibb_20 (K1), Niklas_21 (K1), Oscar_20 (K1), Peanam_21 (K1), PhelpsODU_20 (K6), Phrank_20 (K6), Pinnie_17 (G3), Richo_21 (K1), Scarlett_20 (K1), Shadow1_19 (K6), Shaobing_21 (K1), SirPhilip_20 (K6), Stargaze_16 (G5), Sunflower1121_19

(K6), Syra333_20 (K6), TClif_20 (K6), Tierra_20 (K6), Tigress9_20 (K6), TingHuaYa_21 (K1), Unicorn_20 (K6), Validus_21 (K1), Ximenita_21 (K6), YangYin_16 (G5), Yuna_21 (K6), Yunkel11_21 (K1),

Summary by clusters:

There are 12 clusters represented in this pham: G5, G4, G3, G1, G, K3, K2, K1, AB, K7, K6, G2,

Info for manual annotations of cluster AB:

- Start number 5 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster G1:

- Start number 13 was manually annotated 62 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 14 was manually annotated 1 time for cluster G2.

Info for manual annotations of cluster G3:

- Start number 14 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 14 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 14 was manually annotated 2 times for cluster G5.

Info for manual annotations of cluster K1:

- Start number 13 was manually annotated 91 times for cluster K1.
- Start number 14 was manually annotated 16 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 12 was manually annotated 10 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 13 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 14 was manually annotated 15 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 13 was manually annotated 1 time for cluster K7.

Gene Information:

Gene: ActinUp_21 Start: 12079, Stop: 15918, Start Num: 13

Candidate Starts for ActinUp_21:

(Start: 13 @12079 has 163 MA's), (22, 12148), (28, 12235), (55, 12412), (61, 12439), (77, 12511), (78, 12523), (79, 12532), (89, 12604), (102, 12679), (120, 12763), (122, 12772), (126, 12793), (132, 12832), (143, 12910), (156, 12988), (169, 13078), (180, 13153), (193, 13246), (195, 13255), (196,

13267), (197, 13276), (243, 13537), (249, 13552), (258, 13585), (274, 13672), (280, 13696), (295, 13780), (305, 13864), (308, 13876), (312, 13897), (375, 14053), (387, 14134), (396, 14182), (399, 14200), (403, 14221), (407, 14257), (412, 14308), (421, 14365), (431, 14443), (433, 14452), (447, 14530), (454, 14587), (459, 14641), (481, 14881), (490, 14956), (499, 15067), (510, 15286), (512, 15298), (527, 15487), (528, 15496), (539, 15568), (547, 15598), (554, 15619), (570, 15739), (579, 15811), (580, 15829), (581, 15835),

Gene: Adephagia_21 Start: 12079, Stop: 15915, Start Num: 13

Candidate Starts for Adephagia_21:

(Start: 13 @12079 has 163 MA's), (22, 12148), (28, 12235), (55, 12412), (61, 12439), (77, 12511), (78, 12523), (79, 12532), (89, 12604), (102, 12679), (120, 12763), (122, 12772), (126, 12793), (132, 12832), (143, 12910), (156, 12988), (169, 13078), (180, 13153), (193, 13246), (195, 13255), (196, 13267), (197, 13276), (243, 13537), (249, 13552), (258, 13585), (274, 13672), (280, 13696), (295, 13780), (305, 13864), (308, 13876), (312, 13897), (375, 14053), (387, 14134), (396, 14182), (399, 14200), (403, 14221), (407, 14257), (412, 14308), (421, 14365), (431, 14443), (433, 14452), (447, 14530), (454, 14587), (459, 14641), (481, 14881), (490, 14956), (499, 15067), (510, 15286), (512, 15298), (527, 15484), (528, 15493), (539, 15565), (547, 15595), (554, 15616), (570, 15736), (579, 15808), (580, 15826), (581, 15832),

Gene: Adonis_21 Start: 12088, Stop: 15921, Start Num: 13

Candidate Starts for Adonis_21:

(3, 11869), (10, 12049), (Start: 13 @12088 has 163 MA's), (22, 12157), (28, 12244), (55, 12421), (61, 12448), (78, 12532), (79, 12541), (89, 12613), (102, 12688), (120, 12772), (122, 12781), (126, 12802), (132, 12841), (143, 12919), (156, 12997), (169, 13087), (180, 13162), (193, 13255), (195, 13264), (196, 13276), (197, 13285), (228, 13468), (238, 13522), (249, 13561), (258, 13594), (274, 13681), (280, 13705), (295, 13789), (305, 13873), (308, 13885), (312, 13906), (375, 14062), (387, 14143), (396, 14191), (399, 14209), (403, 14230), (407, 14266), (412, 14317), (421, 14374), (431, 14452), (433, 14461), (447, 14539), (454, 14596), (459, 14650), (481, 14890), (490, 14965), (499, 15076), (510, 15295), (512, 15307), (527, 15490), (528, 15499), (547, 15601), (554, 15622), (570, 15742), (579, 15814), (580, 15832), (581, 15838),

Gene: Ageofdapage_21 Start: 12015, Stop: 15848, Start Num: 13

Candidate Starts for Ageofdapage_21:

(Start: 13 @12015 has 163 MA's), (22, 12084), (28, 12171), (55, 12351), (61, 12378), (78, 12462), (79, 12471), (88, 12531), (89, 12543), (102, 12618), (111, 12660), (120, 12702), (122, 12711), (126, 12732), (132, 12771), (143, 12849), (156, 12927), (180, 13092), (193, 13185), (196, 13206), (197, 13215), (238, 13452), (243, 13476), (249, 13491), (258, 13524), (274, 13611), (295, 13719), (305, 13803), (308, 13815), (312, 13836), (320, 13917), (375, 13992), (387, 14073), (389, 14082), (396, 14121), (399, 14139), (403, 14160), (407, 14196), (412, 14247), (421, 14304), (431, 14382), (433, 14391), (447, 14469), (449, 14484), (454, 14526), (459, 14580), (481, 14820), (490, 14895), (499, 15006), (510, 15225), (519, 15339), (527, 15420), (528, 15429), (539, 15501), (547, 15531), (554, 15552), (570, 15669), (579, 15741), (581, 15765),

Gene: AizenPogi_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for AizenPogi_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567,

15403), (568, 15412),

Gene: AlishaPH_21 Start: 12075, Stop: 15908, Start Num: 13

Candidate Starts for AlishaPH_21:

(Start: 13 @12075 has 163 MA's), (22, 12144), (28, 12231), (35, 12306), (55, 12408), (61, 12435), (77, 12507), (78, 12519), (79, 12528), (89, 12600), (102, 12675), (120, 12759), (122, 12768), (126, 12789), (132, 12828), (143, 12906), (156, 12984), (169, 13074), (180, 13149), (193, 13242), (195, 13251), (196, 13263), (197, 13272), (238, 13509), (249, 13548), (258, 13581), (274, 13668), (280, 13692), (295, 13776), (305, 13860), (308, 13872), (312, 13893), (375, 14049), (387, 14130), (396, 14178), (399, 14196), (403, 14217), (407, 14253), (412, 14304), (421, 14361), (431, 14439), (433, 14448), (447, 14526), (449, 14541), (454, 14583), (459, 14637), (481, 14877), (490, 14952), (499, 15063), (510, 15282), (512, 15294), (527, 15477), (528, 15486), (539, 15558), (547, 15588), (554, 15609), (570, 15729), (579, 15801), (580, 15819), (581, 15825),

Gene: Amelie_17 Start: 11327, Stop: 15460, Start Num: 13

Candidate Starts for Amelie_17:

(10, 11288), (Start: 13 @11327 has 163 MA's), (22, 11396), (28, 11483), (35, 11561), (57, 11669), (61, 11690), (70, 11723), (89, 11855), (93, 11870), (94, 11876), (102, 11930), (108, 11960), (122, 12023), (126, 12044), (132, 12083), (143, 12161), (156, 12239), (160, 12263), (193, 12497), (209, 12578), (216, 12638), (223, 12695), (233, 12731), (238, 12764), (243, 12788), (261, 12854), (263, 12863), (274, 12923), (295, 13031), (300, 13076), (321, 13232), (329, 13343), (330, 13352), (331, 13364), (339, 13415), (343, 13433), (348, 13460), (353, 13490), (367, 13583), (375, 13622), (403, 13790), (409, 13844), (412, 13877), (420, 13922), (431, 14003), (432, 14006), (447, 14090), (448, 14096), (449, 14105), (454, 14147), (458, 14183), (459, 14201), (461, 14240), (468, 14300), (481, 14441), (488, 14501), (490, 14516), (512, 14858), (527, 15047), (528, 15056), (537, 15119), (581, 15395),

Gene: Aminay_19 Start: 11993, Stop: 16294, Start Num: 13

Candidate Starts for Aminay_19:

(Start: 13 @11993 has 163 MA's), (15, 12002), (21, 12041), (23, 12083), (28, 12149), (30, 12194), (51, 12308), (63, 12356), (74, 12395), (75, 12398), (78, 12434), (88, 12503), (89, 12515), (93, 12530), (94, 12536), (122, 12683), (126, 12704), (132, 12743), (133, 12746), (143, 12821), (151, 12866), (156, 12899), (160, 12923), (169, 12989), (170, 12992), (174, 13010), (176, 13019), (178, 13052), (182, 13076), (186, 13097), (202, 13214), (224, 13355), (225, 13358), (228, 13367), (238, 13421), (239, 13427), (247, 13457), (257, 13490), (262, 13514), (267, 13541), (274, 13580), (277, 13595), (279, 13601), (284, 13628), (291, 13688), (294, 13706), (298, 13736), (301, 13757), (308, 13805), (309, 13808), (310, 13814), (312, 13826), (319, 13904), (330, 14030), (340, 14099), (344, 14117), (349, 14150), (350, 14153), (354, 14180), (365, 14234), (375, 14288), (379, 14327), (380, 14348), (383, 14372), (388, 14420), (397, 14480), (398, 14489), (406, 14546), (409, 14579), (410, 14588), (415, 14630), (422, 14696), (431, 14777), (433, 14786), (461, 14993), (481, 15194), (490, 15269), (493, 15299), (504, 15485), (520, 15749), (523, 15794), (527, 15821), (543, 15947), (548, 15965), (552, 15986), (560, 16043), (561, 16046), (569, 16118), (582, 16220), (584, 16244), (589, 16283),

Gene: Anaya_22 Start: 12098, Stop: 15934, Start Num: 13

Candidate Starts for Anaya_22:

(Start: 13 @12098 has 163 MA's), (22, 12167), (28, 12254), (55, 12431), (61, 12458), (77, 12530), (78, 12542), (79, 12551), (89, 12623), (102, 12698), (108, 12728), (120, 12782), (122, 12791), (126, 12812), (132, 12851), (143, 12929), (150, 12971), (156, 13007), (160, 13031), (169, 13097), (180, 13172), (193, 13265), (195, 13274), (196, 13286), (197, 13295), (238, 13532), (243, 13556), (249, 13571), (258, 13604), (274, 13691), (280, 13715), (295, 13799), (305, 13883), (308, 13895), (312, 13916), (375, 14072), (387, 14153), (399, 14219), (403, 14240), (407, 14276), (412, 14327), (421, 14384), (431, 14462), (433, 14471), (447, 14549), (454, 14606), (459, 14660), (481, 14900), (490, 14975), (491, 14981), (499, 15086), (510, 15305), (527, 15503), (528, 15512), (547, 15614), (554, 15635), (563, 15710), (570, 15755), (579, 15827), (580, 15845), (581, 15851),

Gene: Angel_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Angel_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Angelica_21 Start: 12050, Stop: 15883, Start Num: 13

Candidate Starts for Angelica_21:

(Start: 13 @12050 has 163 MA's), (22, 12119), (28, 12206), (55, 12383), (61, 12410), (78, 12494), (79, 12503), (89, 12575), (102, 12650), (120, 12734), (122, 12743), (126, 12764), (132, 12803), (143, 12881), (156, 12959), (169, 13049), (180, 13124), (193, 13217), (196, 13238), (197, 13247), (238, 13484), (249, 13523), (258, 13556), (274, 13643), (280, 13667), (295, 13751), (305, 13835), (308, 13847), (312, 13868), (375, 14024), (387, 14105), (396, 14153), (399, 14171), (403, 14192), (407, 14228), (412, 14279), (421, 14336), (431, 14414), (433, 14423), (447, 14501), (449, 14516), (454, 14558), (459, 14612), (481, 14852), (490, 14927), (499, 15038), (510, 15257), (512, 15269), (527, 15452), (528, 15461), (547, 15563), (554, 15584), (570, 15704), (579, 15776), (580, 15794), (581, 15800),

Gene: Anma_21 Start: 12024, Stop: 15863, Start Num: 13

Candidate Starts for Anma_21:

(Start: 13 @12024 has 163 MA's), (22, 12093), (28, 12180), (55, 12360), (61, 12387), (78, 12471), (79, 12480), (88, 12540), (89, 12552), (102, 12627), (113, 12678), (122, 12720), (126, 12741), (132, 12780), (143, 12858), (156, 12936), (160, 12960), (180, 13101), (193, 13194), (196, 13215), (197, 13224), (238, 13461), (243, 13485), (249, 13500), (258, 13533), (274, 13620), (291, 13707), (295, 13728), (305, 13812), (308, 13824), (312, 13845), (375, 14001), (387, 14082), (399, 14148), (403, 14169), (407, 14205), (412, 14256), (417, 14274), (421, 14313), (431, 14391), (447, 14478), (449, 14493), (454, 14535), (459, 14589), (481, 14829), (490, 14904), (499, 15015), (500, 15036), (501, 15057), (508, 15177), (519, 15351), (527, 15432), (528, 15441), (539, 15513), (547, 15543), (554, 15564), (570, 15684), (579, 15756), (580, 15774), (581, 15780),

Gene: Annihilator_16 Start: 11455, Stop: 15468, Start Num: 13

Candidate Starts for Annihilator_16:

(Start: 13 @11455 has 163 MA's), (30, 11656), (51, 11770), (61, 11812), (69, 11842), (89, 11977), (92, 11989), (94, 11998), (129, 12187), (132, 12205), (133, 12208), (135, 12229), (136, 12241), (148, 12313), (156, 12361), (177, 12493), (179, 12517), (190, 12598), (212, 12721), (222, 12805), (231, 12841), (238, 12886), (239, 12892), (265, 13000), (270, 13024), (274, 13045), (311, 13264), (325, 13414), (333, 13501), (352, 13609), (375, 13744), (392, 13855), (396, 13873), (402, 13903), (429, 14125), (435, 14149), (437, 14164), (441, 14185), (447, 14212), (451, 14239), (457, 14299), (464, 14389), (467, 14422), (475, 14485), (478, 14542), (480, 14575), (482, 14584), (521, 15088), (522, 15115), (525, 15145), (527, 15157), (528, 15166), (539, 15235), (557, 15316), (564, 15376), (567, 15394), (568, 15403),

Gene: Antsirabe_16 Start: 11833, Stop: 15810, Start Num: 14

Candidate Starts for Antsirabe_16:

(Start: 14 @11833 has 38 MA's), (24, 11926), (33, 12046), (43, 12109), (48, 12127), (62, 12190), (72, 12226), (81, 12298), (83, 12304), (87, 12331), (90, 12349), (97, 12394), (106, 12430), (109, 12445),

(133, 12568), (137, 12610), (140, 12625), (146, 12661), (156, 12724), (159, 12745), (172, 12817), (176, 12835), (194, 12976), (198, 13018), (205, 13048), (206, 13051), (208, 13060), (210, 13069), (215, 13111), (227, 13183), (229, 13189), (232, 13204), (235, 13222), (236, 13225), (242, 13258), (251, 13285), (261, 13330), (274, 13393), (280, 13417), (282, 13429), (283, 13432), (302, 13561), (308, 13603), (309, 13606), (321, 13708), (325, 13768), (329, 13819), (341, 13903), (353, 13966), (361, 14023), (371, 14074), (374, 14092), (375, 14098), (383, 14149), (390, 14191), (404, 14287), (425, 14410), (427, 14428), (435, 14494), (437, 14509), (450, 14575), (455, 14629), (457, 14644), (462, 14725), (464, 14734), (475, 14827), (477, 14881), (478, 14884), (480, 14917), (489, 14992), (521, 15454), (522, 15481), (527, 15523), (539, 15610), (540, 15613), (544, 15631), (546, 15634), (564, 15718), (567, 15736),

Gene: Apocalypse_21 Start: 12053, Stop: 15886, Start Num: 13

Candidate Starts for Apocalypse_21:

(Start: 13 @12053 has 163 MA's), (22, 12122), (28, 12209), (55, 12386), (61, 12413), (78, 12497), (79, 12506), (89, 12578), (102, 12653), (120, 12737), (122, 12746), (126, 12767), (132, 12806), (143, 12884), (156, 12962), (160, 12986), (169, 13052), (180, 13127), (193, 13220), (195, 13229), (196, 13241), (197, 13250), (238, 13487), (249, 13526), (258, 13559), (274, 13646), (280, 13670), (295, 13754), (305, 13838), (308, 13850), (312, 13871), (375, 14027), (387, 14108), (391, 14132), (396, 14156), (399, 14174), (403, 14195), (407, 14231), (412, 14282), (421, 14339), (431, 14417), (433, 14426), (447, 14504), (449, 14519), (454, 14561), (459, 14615), (481, 14855), (490, 14930), (499, 15041), (510, 15260), (512, 15272), (527, 15455), (528, 15464), (539, 15536), (547, 15566), (554, 15587), (570, 15707), (579, 15779), (580, 15797), (581, 15803),

Gene: Aroostook_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Aroostook_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Asayake_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Asayake_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Atiba_21 Start: 12042, Stop: 15878, Start Num: 13

Candidate Starts for Atiba_21:

(Start: 13 @12042 has 163 MA's), (22, 12111), (28, 12198), (55, 12375), (61, 12402), (77, 12474), (78, 12486), (79, 12495), (89, 12567), (102, 12642), (120, 12726), (122, 12735), (126, 12756), (132, 12795), (143, 12873), (156, 12951), (169, 13041), (180, 13116), (193, 13209), (195, 13218), (196, 13230), (197, 13239), (243, 13500), (249, 13515), (258, 13548), (274, 13635), (280, 13659), (295,

13743), (305, 13827), (308, 13839), (312, 13860), (375, 14016), (387, 14097), (396, 14145), (399, 14163), (403, 14184), (407, 14220), (412, 14271), (421, 14328), (431, 14406), (433, 14415), (447, 14493), (454, 14550), (459, 14604), (481, 14844), (490, 14919), (499, 15030), (510, 15249), (512, 15261), (527, 15447), (528, 15456), (539, 15528), (547, 15558), (554, 15579), (570, 15699), (579, 15771), (580, 15789), (581, 15795),

Gene: Avrafan_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Avrafan_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: AzulaCat_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for AzulaCat_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: BEEST_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for BEEST_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: BGlluviae_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for BGlluviae_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: BPs_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for BPs_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: BQuat_16 Start: 11455, Stop: 15468, Start Num: 13

Candidate Starts for BQuat_16:

(Start: 13 @11455 has 163 MA's), (30, 11656), (51, 11770), (61, 11812), (69, 11842), (89, 11977), (92, 11989), (94, 11998), (129, 12187), (132, 12205), (133, 12208), (135, 12229), (136, 12241), (148, 12313), (156, 12361), (177, 12493), (179, 12517), (190, 12598), (212, 12721), (222, 12805), (231, 12841), (238, 12886), (239, 12892), (265, 13000), (270, 13024), (274, 13045), (311, 13264), (325, 13414), (333, 13501), (352, 13609), (375, 13744), (392, 13855), (396, 13873), (402, 13903), (429, 14125), (435, 14149), (437, 14164), (441, 14185), (447, 14212), (451, 14239), (457, 14299), (464, 14389), (467, 14422), (475, 14485), (478, 14542), (480, 14575), (482, 14584), (521, 15088), (522, 15115), (525, 15145), (527, 15157), (528, 15166), (539, 15235), (557, 15316), (564, 15376), (567, 15394), (568, 15403),

Gene: BaghaKamala_21 Start: 12045, Stop: 15878, Start Num: 13

Candidate Starts for BaghaKamala_21:

(Start: 13 @12045 has 163 MA's), (22, 12114), (28, 12201), (35, 12276), (55, 12378), (61, 12405), (77, 12477), (78, 12489), (79, 12498), (89, 12570), (102, 12645), (120, 12729), (122, 12738), (126, 12759), (132, 12798), (136, 12834), (143, 12876), (156, 12954), (169, 13044), (180, 13119), (193, 13212), (195, 13221), (196, 13233), (197, 13242), (238, 13479), (249, 13518), (258, 13551), (274, 13638), (280, 13662), (295, 13746), (305, 13830), (308, 13842), (312, 13863), (375, 14019), (387, 14100), (396, 14148), (399, 14166), (403, 14187), (407, 14223), (412, 14274), (421, 14331), (431, 14409), (433, 14418), (447, 14496), (449, 14511), (454, 14553), (459, 14607), (481, 14847), (490, 14922), (499, 15033), (510, 15252), (512, 15264), (527, 15447), (528, 15456), (539, 15528), (547, 15558), (554, 15579), (570, 15699), (579, 15771), (580, 15789), (581, 15795),

Gene: Barkley26_16 Start: 11464, Stop: 15480, Start Num: 13

Candidate Starts for Barkley26_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15100), (522, 15127), (525, 15157), (527, 15169), (528, 15178), (539, 15247), (557, 15328), (564, 15388), (567, 15406), (568, 15415),

Gene: BarrelRoll_21 Start: 12068, Stop: 15901, Start Num: 13

Candidate Starts for BarrelRoll_21:

(Start: 13 @12068 has 163 MA's), (22, 12137), (28, 12224), (35, 12299), (55, 12401), (61, 12428), (77, 12500), (78, 12512), (79, 12521), (89, 12593), (102, 12668), (120, 12752), (122, 12761), (126, 12782),

(132, 12821), (136, 12857), (143, 12899), (156, 12977), (169, 13067), (180, 13142), (193, 13235), (195, 13244), (196, 13256), (197, 13265), (238, 13502), (249, 13541), (258, 13574), (274, 13661), (280, 13685), (295, 13769), (305, 13853), (308, 13865), (312, 13886), (375, 14042), (387, 14123), (396, 14171), (399, 14189), (403, 14210), (407, 14246), (412, 14297), (421, 14354), (431, 14432), (433, 14441), (447, 14519), (449, 14534), (454, 14576), (459, 14630), (481, 14870), (490, 14945), (499, 15056), (510, 15275), (512, 15287), (527, 15470), (528, 15479), (539, 15551), (547, 15581), (554, 15602), (570, 15722), (579, 15794), (580, 15812), (581, 15818),

Gene: Beezoo_21 Start: 12092, Stop: 15925, Start Num: 13

Candidate Starts for Beezoo_21:

(Start: 13 @12092 has 163 MA's), (22, 12161), (23, 12182), (28, 12248), (55, 12425), (61, 12452), (77, 12524), (78, 12536), (79, 12545), (89, 12617), (102, 12692), (120, 12776), (122, 12785), (126, 12806), (132, 12845), (143, 12923), (156, 13001), (169, 13091), (180, 13166), (193, 13259), (195, 13268), (196, 13280), (197, 13289), (238, 13526), (249, 13565), (258, 13598), (274, 13685), (280, 13709), (295, 13793), (305, 13877), (308, 13889), (309, 13892), (312, 13910), (375, 14066), (387, 14147), (396, 14195), (399, 14213), (403, 14234), (407, 14270), (412, 14321), (421, 14378), (431, 14456), (433, 14465), (447, 14543), (449, 14558), (454, 14600), (459, 14654), (481, 14894), (490, 14969), (499, 15080), (510, 15299), (512, 15311), (527, 15494), (528, 15503), (547, 15605), (554, 15626), (570, 15746), (579, 15818), (580, 15836), (581, 15842),

Gene: Bella96_21 Start: 12006, Stop: 15845, Start Num: 13

Candidate Starts for Bella96_21:

(Start: 13 @12006 has 163 MA's), (22, 12075), (28, 12162), (55, 12342), (61, 12369), (78, 12453), (79, 12462), (88, 12522), (89, 12534), (102, 12609), (111, 12651), (120, 12693), (122, 12702), (126, 12723), (132, 12762), (133, 12765), (143, 12840), (156, 12918), (180, 13083), (193, 13176), (196, 13197), (197, 13206), (238, 13443), (243, 13467), (249, 13482), (258, 13515), (274, 13602), (291, 13689), (295, 13710), (305, 13794), (308, 13806), (312, 13827), (375, 13983), (387, 14064), (399, 14130), (403, 14151), (407, 14187), (412, 14238), (417, 14256), (421, 14295), (431, 14373), (433, 14382), (447, 14460), (449, 14475), (454, 14517), (459, 14571), (481, 14811), (490, 14886), (499, 14997), (500, 15018), (501, 15039), (508, 15159), (519, 15333), (527, 15414), (528, 15423), (539, 15495), (547, 15525), (554, 15546), (570, 15666), (579, 15738), (580, 15756), (581, 15762),

Gene: Bern_21 Start: 12034, Stop: 15873, Start Num: 13

Candidate Starts for Bern_21:

(Start: 13 @12034 has 163 MA's), (22, 12103), (28, 12190), (55, 12370), (61, 12397), (78, 12481), (88, 12550), (89, 12562), (102, 12637), (113, 12688), (122, 12730), (126, 12751), (132, 12790), (143, 12868), (156, 12946), (180, 13111), (193, 13204), (196, 13225), (197, 13234), (238, 13471), (243, 13495), (249, 13510), (258, 13543), (274, 13630), (291, 13717), (295, 13738), (305, 13822), (308, 13834), (311, 13849), (312, 13855), (387, 14092), (396, 14140), (399, 14158), (403, 14179), (407, 14215), (409, 14233), (412, 14266), (431, 14401), (433, 14410), (447, 14488), (449, 14503), (454, 14545), (459, 14599), (481, 14839), (490, 14914), (499, 15025), (500, 15046), (501, 15067), (508, 15187), (519, 15361), (527, 15442), (528, 15451), (539, 15523), (547, 15553), (554, 15574), (570, 15694), (579, 15766), (580, 15784), (581, 15790),

Gene: Biglebops_17 Start: 11327, Stop: 15460, Start Num: 13

Candidate Starts for Biglebops_17:

(10, 11288), (Start: 13 @11327 has 163 MA's), (22, 11396), (28, 11483), (35, 11561), (57, 11669), (61, 11690), (70, 11723), (89, 11855), (93, 11870), (94, 11876), (102, 11930), (108, 11960), (122, 12023), (126, 12044), (132, 12083), (143, 12161), (156, 12239), (160, 12263), (193, 12497), (209, 12578), (216, 12638), (223, 12695), (233, 12731), (238, 12764), (243, 12788), (261, 12854), (263, 12863), (274, 12923), (295, 13031), (300, 13076), (321, 13232), (329, 13343), (330, 13352), (331, 13364), (339, 13415), (343, 13433), (348, 13460), (353, 13490), (367, 13583), (375, 13622), (403, 13790), (409, 13844), (412, 13877), (420, 13922), (431, 14003), (432, 14006), (447, 14090), (448, 14096),

(449, 14105), (454, 14147), (458, 14183), (459, 14201), (461, 14240), (468, 14300), (481, 14441),
(488, 14501), (490, 14516), (512, 14858), (527, 15047), (528, 15056), (537, 15119), (581, 15395),

Gene: Blizzard_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Blizzard_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Boiiii_21 Start: 12118, Stop: 15951, Start Num: 13

Candidate Starts for Boiiii_21:

(Start: 13 @12118 has 163 MA's), (22, 12187), (28, 12274), (35, 12349), (55, 12451), (61, 12478), (77, 12550), (78, 12562), (79, 12571), (89, 12643), (102, 12718), (120, 12802), (122, 12811), (126, 12832), (132, 12871), (136, 12907), (143, 12949), (156, 13027), (169, 13117), (180, 13192), (193, 13285), (195, 13294), (196, 13306), (197, 13315), (238, 13552), (249, 13591), (258, 13624), (274, 13711), (280, 13735), (295, 13819), (305, 13903), (308, 13915), (312, 13936), (375, 14092), (387, 14173), (396, 14221), (399, 14239), (403, 14260), (407, 14296), (412, 14347), (421, 14404), (431, 14482), (433, 14491), (447, 14569), (449, 14584), (454, 14626), (459, 14680), (481, 14920), (490, 14995), (499, 15106), (510, 15325), (512, 15337), (527, 15520), (528, 15529), (539, 15601), (547, 15631), (554, 15652), (570, 15772), (579, 15844), (580, 15862), (581, 15868),

Gene: BoostSeason_17 Start: 10144, Stop: 13818, Start Num: 12

Candidate Starts for BoostSeason_17:

(Start: 12 @10144 has 10 MA's), (22, 10216), (65, 10450), (77, 10501), (89, 10594), (102, 10669), (122, 10762), (126, 10783), (129, 10804), (130, 10810), (143, 10900), (150, 10942), (156, 10978), (163, 11011), (164, 11023), (167, 11047), (169, 11068), (175, 11092), (176, 11098), (179, 11134), (180, 11143), (186, 11176), (188, 11188), (190, 11215), (222, 11398), (223, 11410), (225, 11416), (234, 11455), (238, 11479), (245, 11512), (262, 11530), (264, 11539), (293, 11572), (316, 11761), (317, 11767), (322, 11803), (327, 11830), (331, 11848), (338, 11866), (363, 11974), (372, 12007), (382, 12040), (393, 12094), (399, 12127), (403, 12148), (405, 12172), (410, 12202), (413, 12223), (454, 12445), (461, 12538), (471, 12616), (481, 12739), (496, 12892), (519, 13309), (520, 13318), (522, 13348), (530, 13408), (549, 13516), (570, 13648), (581, 13741),

Gene: BruceB_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for BruceB_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Bryler_20 Start: 11095, Stop: 15096, Start Num: 14

Candidate Starts for Bryler_20:

(Start: 14 @11095 has 38 MA's), (25, 11188), (31, 11293), (36, 11320), (40, 11347), (43, 11365), (48, 11383), (53, 11407), (54, 11413), (60, 11440), (62, 11446), (72, 11482), (75, 11491), (77, 11515), (87, 11587), (90, 11605), (91, 11608), (116, 11737), (137, 11854), (153, 11950), (159, 11989), (165, 12019), (176, 12079), (198, 12262), (199, 12268), (200, 12271), (211, 12325), (215, 12355), (223, 12415), (227, 12427), (229, 12433), (232, 12448), (236, 12469), (239, 12487), (272, 12625), (274, 12637), (279, 12658), (287, 12697), (307, 12751), (308, 12757), (324, 12919), (330, 12982), (343, 13063), (346, 13078), (353, 13120), (360, 13171), (364, 13192), (369, 13222), (371, 13228), (375, 13252), (383, 13303), (392, 13363), (403, 13420), (407, 13456), (409, 13474), (412, 13507), (431, 13648), (432, 13651), (447, 13735), (451, 13762), (459, 13846), (481, 14086), (490, 14161), (511, 14494), (519, 14596), (520, 14605), (527, 14677), (539, 14761), (547, 14791), (553, 14812), (570, 14929), (579, 15004), (583, 15043), (584, 15055),

Gene: CLED96_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for CLED96_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: CREW_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for CREW_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Cain_20 Start: 11083, Stop: 15084, Start Num: 14

Candidate Starts for Cain_20:

(Start: 14 @11083 has 38 MA's), (25, 11176), (31, 11281), (36, 11308), (40, 11335), (43, 11353), (48, 11371), (53, 11395), (54, 11401), (60, 11428), (62, 11434), (72, 11470), (75, 11479), (77, 11503), (87, 11575), (90, 11593), (91, 11596), (116, 11725), (137, 11842), (153, 11938), (159, 11977), (165, 12007), (176, 12067), (198, 12250), (199, 12256), (200, 12259), (211, 12313), (215, 12343), (223, 12403), (227, 12415), (229, 12421), (232, 12436), (236, 12457), (239, 12475), (272, 12613), (274, 12625), (279, 12646), (287, 12685), (307, 12739), (308, 12745), (324, 12907), (330, 12970), (343, 13051), (346, 13066), (353, 13108), (360, 13159), (364, 13180), (369, 13210), (371, 13216), (375, 13240), (383, 13291), (392, 13351), (403, 13408), (407, 13444), (409, 13462), (412, 13495), (431, 13636), (432, 13639), (447, 13723), (451, 13750), (459, 13834), (481, 14074), (490, 14149), (511, 14482), (519, 14584), (520, 14593), (527, 14665), (539, 14749), (547, 14779), (553, 14800), (570, 14917), (579, 14992), (583, 15031), (584, 15043),

Gene: CallaLilly_21 Start: 12039, Stop: 15872, Start Num: 13

Candidate Starts for CallaLilly_21:

(Start: 13 @12039 has 163 MA's), (22, 12108), (23, 12129), (28, 12195), (55, 12372), (61, 12399), (77, 12471), (78, 12483), (79, 12492), (89, 12564), (102, 12639), (120, 12723), (122, 12732), (126, 12753), (132, 12792), (136, 12828), (143, 12870), (156, 12948), (169, 13038), (180, 13113), (193, 13206), (195, 13215), (196, 13227), (197, 13236), (238, 13473), (249, 13512), (258, 13545), (274, 13632), (280, 13656), (295, 13740), (305, 13824), (308, 13836), (312, 13857), (375, 14013), (387, 14094), (396, 14142), (399, 14160), (403, 14181), (407, 14217), (412, 14268), (421, 14325), (431, 14403), (433, 14412), (447, 14490), (449, 14505), (454, 14547), (459, 14601), (481, 14841), (490, 14916), (499, 15027), (510, 15246), (512, 15258), (527, 15441), (528, 15450), (539, 15522), (547, 15552), (554, 15573), (570, 15693), (579, 15765), (580, 15783), (581, 15789),

Gene: Cambiare_17 Start: 12153, Stop: 16196, Start Num: 14

Candidate Starts for Cambiare_17:

(Start: 14 @12153 has 38 MA's), (24, 12246), (27, 12276), (37, 12423), (57, 12507), (68, 12555), (89, 12693), (94, 12714), (102, 12768), (122, 12861), (126, 12882), (129, 12903), (132, 12921), (135, 12945), (136, 12957), (148, 13029), (151, 13044), (156, 13077), (177, 13209), (179, 13233), (182, 13254), (188, 13287), (190, 13314), (196, 13356), (203, 13404), (223, 13542), (224, 13545), (234, 13587), (251, 13656), (252, 13659), (266, 13728), (274, 13770), (289, 13848), (306, 13965), (308, 13974), (311, 13989), (317, 14070), (321, 14079), (325, 14139), (336, 14253), (348, 14307), (352, 14334), (360, 14388), (362, 14397), (369, 14439), (374, 14463), (375, 14469), (381, 14499), (383, 14520), (386, 14538), (393, 14583), (424, 14790), (426, 14805), (430, 14853), (435, 14874), (437, 14889), (442, 14913), (449, 14952), (450, 14955), (451, 14964), (453, 14991), (455, 15006), (460, 15057), (461, 15084), (474, 15189), (481, 15285), (490, 15360), (501, 15504), (513, 15705), (521, 15789), (522, 15816), (525, 15846), (527, 15858), (557, 16044), (567, 16122),

Gene: Camri_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Camri_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Capricorn_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Capricorn_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: CaseJules_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for CaseJules_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283),

(195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: CassieYates_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for CassieYates_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Cedasite_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Cedasite_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Chance64_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Chance64_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Chavito_21 Start: 11138, Stop: 15292, Start Num: 14

Candidate Starts for Chavito_21:

(9, 11090), (Start: 14 @11138 has 38 MA's), (25, 11231), (40, 11390), (45, 11417), (66, 11507), (67, 11510), (81, 11597), (98, 11705), (99, 11708), (114, 11774), (133, 11876), (137, 11918), (140, 11933), (141, 11942), (146, 11969), (152, 11999), (156, 12032), (164, 12074), (176, 12143), (198, 12329), (199, 12335), (208, 12371), (210, 12380), (211, 12392), (213, 12404), (215, 12422), (223, 12482), (227, 12494), (229, 12500), (232, 12515), (235, 12533), (236, 12536), (239, 12554), (242, 12569), (254, 12608), (267, 12665), (268, 12674), (274, 12704), (279, 12725), (285, 12755), (296, 12824), (299, 12845), (302, 12872), (305, 12902), (308, 12914), (320, 13016), (326, 13094), (330, 13139), (332, 13163), (342, 13217), (343, 13220), (346, 13235), (347, 13238), (353, 13277), (357, 13304),

(360, 13328), (361, 13334), (385, 13469), (386, 13478), (391, 13514), (392, 13520), (396, 13538), (401, 13565), (403, 13577), (409, 13631), (412, 13664), (422, 13724), (431, 13805), (432, 13808), (447, 13892), (449, 13907), (461, 14042), (470, 14108), (481, 14243), (504, 14516), (507, 14591), (527, 14852), (528, 14861), (534, 14924), (560, 15047), (570, 15119), (574, 15140), (579, 15191), (580, 15209), (581, 15215), (585, 15254),

Gene: CheetoDust_21 Start: 12093, Stop: 15926, Start Num: 13

Candidate Starts for CheetoDust_21:

(Start: 13 @12093 has 163 MA's), (22, 12162), (28, 12249), (55, 12426), (61, 12453), (77, 12525), (78, 12537), (79, 12546), (89, 12618), (102, 12693), (120, 12777), (122, 12786), (126, 12807), (132, 12846), (143, 12924), (156, 13002), (160, 13026), (169, 13092), (180, 13167), (193, 13260), (195, 13269), (196, 13281), (197, 13290), (238, 13527), (249, 13566), (258, 13599), (274, 13686), (280, 13710), (295, 13794), (305, 13878), (308, 13890), (312, 13911), (375, 14067), (387, 14148), (391, 14172), (396, 14196), (399, 14214), (403, 14235), (407, 14271), (412, 14322), (421, 14379), (431, 14457), (433, 14466), (447, 14544), (449, 14559), (454, 14601), (459, 14655), (481, 14895), (490, 14970), (499, 15081), (510, 15300), (512, 15312), (527, 15495), (528, 15504), (539, 15576), (547, 15606), (554, 15627), (570, 15747), (579, 15819), (580, 15837), (581, 15843),

Gene: Cherrybomb426_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Cherrybomb426_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Chris_20 Start: 11071, Stop: 15138, Start Num: 14

Candidate Starts for Chris_20:

(Start: 14 @11071 has 38 MA's), (25, 11164), (36, 11296), (40, 11323), (41, 11332), (42, 11338), (64, 11434), (87, 11563), (90, 11581), (91, 11584), (95, 11611), (99, 11641), (116, 11722), (123, 11752), (127, 11776), (137, 11839), (140, 11854), (155, 11950), (156, 11953), (164, 11995), (176, 12064), (198, 12247), (200, 12256), (210, 12298), (211, 12310), (223, 12400), (227, 12412), (229, 12418), (232, 12433), (235, 12451), (236, 12454), (241, 12484), (242, 12487), (272, 12610), (274, 12622), (275, 12628), (279, 12643), (281, 12649), (306, 12733), (313, 12802), (330, 12967), (335, 13015), (339, 13030), (353, 13105), (360, 13156), (364, 13177), (371, 13213), (375, 13237), (381, 13267), (399, 13384), (402, 13396), (403, 13405), (409, 13459), (412, 13492), (421, 13549), (431, 13627), (432, 13630), (447, 13714), (451, 13741), (456, 13789), (459, 13825), (461, 13864), (474, 13969), (481, 14065), (485, 14107), (490, 14140), (510, 14482), (527, 14680), (541, 14794), (570, 14968), (579, 15052), (581, 15073),

Gene: Clipper_21 Start: 12093, Stop: 15926, Start Num: 13

Candidate Starts for Clipper_21:

(Start: 13 @12093 has 163 MA's), (22, 12162), (28, 12249), (55, 12426), (61, 12453), (78, 12537), (79, 12546), (89, 12618), (102, 12693), (120, 12777), (122, 12786), (126, 12807), (132, 12846), (143, 12924), (156, 13002), (169, 13092), (180, 13167), (193, 13260), (195, 13269), (196, 13281), (197, 13290), (238, 13527), (249, 13566), (258, 13599), (274, 13686), (280, 13710), (295, 13794), (305, 13878), (308, 13890), (312, 13911), (375, 14067), (387, 14148), (391, 14172), (396, 14196), (399, 14214), (403, 14235), (407, 14271), (412, 14322), (421, 14379), (431, 14457), (433, 14466), (447, 14544), (449, 14559), (454, 14601), (459, 14655), (481, 14895), (490, 14970), (499, 15081), (510,

15300), (512, 15312), (527, 15495), (528, 15504), (539, 15576), (547, 15606), (554, 15627), (570, 15747), (579, 15819), (580, 15837), (581, 15843),

Gene: Cloudyecho_16 Start: 11718, Stop: 15656, Start Num: 14

Candidate Starts for Cloudyecho_16:

(Start: 14 @11718 has 38 MA's), (24, 11811), (25, 11814), (30, 11919), (31, 11922), (34, 11937), (41, 11985), (48, 12012), (54, 12042), (60, 12069), (83, 12189), (85, 12204), (87, 12216), (90, 12234), (97, 12279), (115, 12357), (116, 12366), (133, 12453), (137, 12495), (140, 12510), (145, 12540), (156, 12609), (158, 12621), (176, 12720), (189, 12834), (194, 12861), (198, 12903), (205, 12933), (210, 12954), (215, 12996), (227, 13068), (229, 13074), (232, 13089), (235, 13107), (236, 13110), (251, 13170), (261, 13215), (267, 13239), (270, 13257), (274, 13278), (280, 13302), (282, 13314), (283, 13317), (292, 13374), (302, 13446), (308, 13488), (320, 13590), (323, 13647), (336, 13767), (341, 13788), (361, 13908), (371, 13959), (383, 14034), (390, 14076), (401, 14139), (404, 14172), (425, 14295), (435, 14379), (437, 14394), (442, 14418), (450, 14460), (451, 14469), (455, 14514), (457, 14529), (462, 14610), (464, 14619), (475, 14712), (477, 14766), (478, 14769), (480, 14802), (521, 15270), (522, 15297), (524, 15324), (527, 15339), (528, 15348), (564, 15564), (567, 15582), (573, 15621),

Gene: Coleslaw_16 Start: 11455, Stop: 15468, Start Num: 13

Candidate Starts for Coleslaw_16:

(Start: 13 @11455 has 163 MA's), (30, 11656), (51, 11770), (61, 11812), (69, 11842), (89, 11977), (92, 11989), (94, 11998), (129, 12187), (132, 12205), (133, 12208), (135, 12229), (136, 12241), (148, 12313), (156, 12361), (177, 12493), (179, 12517), (190, 12598), (212, 12721), (222, 12805), (231, 12841), (238, 12886), (239, 12892), (265, 13000), (270, 13024), (274, 13045), (311, 13264), (325, 13414), (333, 13501), (352, 13609), (375, 13744), (392, 13855), (396, 13873), (402, 13903), (429, 14125), (435, 14149), (437, 14164), (441, 14185), (447, 14212), (451, 14239), (457, 14299), (464, 14389), (467, 14422), (475, 14485), (478, 14542), (480, 14575), (482, 14584), (521, 15088), (522, 15115), (525, 15145), (527, 15157), (528, 15166), (539, 15235), (557, 15316), (564, 15376), (567, 15394), (568, 15403),

Gene: Crespo_16 Start: 11465, Stop: 15478, Start Num: 13

Candidate Starts for Crespo_16:

(Start: 13 @11465 has 163 MA's), (30, 11666), (51, 11780), (61, 11822), (69, 11852), (89, 11987), (92, 11999), (94, 12008), (129, 12197), (132, 12215), (133, 12218), (135, 12239), (136, 12251), (148, 12323), (156, 12371), (177, 12503), (179, 12527), (190, 12608), (212, 12731), (222, 12815), (231, 12851), (238, 12896), (239, 12902), (265, 13010), (270, 13034), (274, 13055), (311, 13274), (325, 13424), (333, 13511), (352, 13619), (375, 13754), (392, 13865), (396, 13883), (402, 13913), (429, 14135), (435, 14159), (437, 14174), (441, 14195), (447, 14222), (451, 14249), (457, 14309), (464, 14399), (467, 14432), (475, 14495), (478, 14552), (480, 14585), (482, 14594), (521, 15098), (522, 15125), (525, 15155), (527, 15167), (528, 15176), (539, 15245), (557, 15326), (564, 15386), (567, 15404), (568, 15413),

Gene: CrimD_21 Start: 12051, Stop: 15887, Start Num: 13

Candidate Starts for CrimD_21:

(Start: 13 @12051 has 163 MA's), (22, 12120), (28, 12207), (55, 12387), (61, 12414), (78, 12498), (79, 12507), (88, 12567), (89, 12579), (102, 12654), (111, 12696), (120, 12738), (122, 12747), (126, 12768), (132, 12807), (143, 12885), (156, 12963), (180, 13128), (193, 13221), (195, 13230), (196, 13242), (197, 13251), (238, 13488), (243, 13512), (249, 13527), (258, 13560), (274, 13647), (280, 13671), (295, 13755), (305, 13839), (308, 13851), (312, 13872), (320, 13953), (373, 14010), (375, 14028), (387, 14109), (396, 14157), (399, 14175), (402, 14187), (403, 14196), (407, 14232), (412, 14283), (421, 14340), (431, 14418), (447, 14505), (449, 14520), (454, 14562), (459, 14616), (481, 14856), (490, 14931), (499, 15042), (510, 15261), (512, 15273), (519, 15375), (527, 15456), (528, 15465), (539, 15537), (547, 15567), (554, 15588), (570, 15708), (579, 15780), (580, 15798), (581,

15804),

Gene: Curiosium_22 Start: 11510, Stop: 15637, Start Num: 14

Candidate Starts for Curiosium_22:

(Start: 14 @11510 has 38 MA's), (19, 11537), (25, 11603), (36, 11735), (39, 11759), (45, 11789), (50, 11810), (53, 11822), (66, 11879), (67, 11882), (81, 11969), (87, 12002), (90, 12020), (91, 12023), (97, 12065), (107, 12110), (133, 12239), (137, 12281), (140, 12296), (141, 12305), (146, 12332), (156, 12395), (163, 12425), (176, 12506), (181, 12557), (193, 12644), (198, 12689), (208, 12731), (209, 12734), (210, 12740), (215, 12782), (223, 12842), (227, 12854), (229, 12860), (232, 12875), (235, 12893), (236, 12896), (239, 12914), (242, 12929), (259, 12989), (263, 13010), (267, 13025), (274, 13064), (278, 13082), (279, 13085), (305, 13262), (308, 13274), (310, 13283), (313, 13334), (320, 13376), (330, 13499), (332, 13523), (347, 13598), (357, 13664), (371, 13745), (381, 13799), (383, 13820), (386, 13838), (392, 13880), (396, 13898), (401, 13925), (403, 13937), (407, 13973), (409, 13991), (414, 14036), (431, 14165), (432, 14168), (447, 14252), (449, 14267), (453, 14306), (454, 14309), (459, 14363), (461, 14402), (470, 14468), (481, 14603), (494, 14729), (514, 15044), (519, 15125), (520, 15134), (527, 15206), (570, 15458), (579, 15530), (581, 15554), (584, 15581),

Gene: DMoney_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for DMoney_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: DNAlll_0016 Start: 11473, Stop: 15486, Start Num: 13

Candidate Starts for DNAlll_0016:

(Start: 13 @11473 has 163 MA's), (30, 11674), (51, 11788), (61, 11830), (69, 11860), (89, 11995), (92, 12007), (94, 12016), (129, 12205), (132, 12223), (133, 12226), (135, 12247), (136, 12259), (148, 12331), (156, 12379), (177, 12511), (179, 12535), (190, 12616), (212, 12739), (222, 12823), (231, 12859), (238, 12904), (239, 12910), (265, 13018), (270, 13042), (274, 13063), (311, 13282), (325, 13432), (333, 13519), (352, 13627), (375, 13762), (392, 13873), (396, 13891), (402, 13921), (429, 14143), (435, 14167), (437, 14182), (441, 14203), (447, 14230), (451, 14257), (457, 14317), (464, 14407), (467, 14440), (475, 14503), (478, 14560), (480, 14593), (482, 14602), (521, 15106), (522, 15133), (525, 15163), (527, 15175), (528, 15184), (539, 15253), (557, 15334), (564, 15394), (567, 15412), (568, 15421),

Gene: Dalmuri_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Dalmuri_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Darionha_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Darionha_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: DartGoblin_21 Start: 12003, Stop: 15842, Start Num: 13

Candidate Starts for DartGoblin_21:

(Start: 13 @12003 has 163 MA's), (22, 12072), (28, 12159), (55, 12339), (61, 12366), (78, 12450), (79, 12459), (88, 12519), (89, 12531), (102, 12606), (111, 12648), (120, 12690), (122, 12699), (126, 12720), (132, 12759), (133, 12762), (143, 12837), (156, 12915), (180, 13080), (193, 13173), (196, 13194), (197, 13203), (238, 13440), (243, 13464), (249, 13479), (258, 13512), (274, 13599), (291, 13686), (295, 13707), (305, 13791), (308, 13803), (312, 13824), (375, 13980), (387, 14061), (399, 14127), (403, 14148), (407, 14184), (412, 14235), (417, 14253), (421, 14292), (431, 14370), (433, 14379), (447, 14457), (449, 14472), (454, 14514), (459, 14568), (481, 14808), (490, 14883), (499, 14994), (500, 15015), (501, 15036), (508, 15156), (519, 15330), (527, 15411), (528, 15420), (539, 15492), (547, 15522), (554, 15543), (570, 15663), (579, 15735), (580, 15753), (581, 15759),

Gene: Dartin_21 Start: 11128, Stop: 15282, Start Num: 14

Candidate Starts for Dartin_21:

(9, 11086), (Start: 14 @11128 has 38 MA's), (25, 11221), (40, 11380), (45, 11407), (66, 11497), (67, 11500), (81, 11587), (98, 11695), (114, 11764), (117, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (146, 11959), (156, 12022), (164, 12064), (176, 12133), (183, 12196), (184, 12205), (198, 12319), (199, 12325), (208, 12361), (210, 12370), (211, 12382), (213, 12394), (215, 12412), (223, 12472), (227, 12484), (229, 12490), (232, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (254, 12598), (267, 12655), (268, 12664), (274, 12694), (279, 12715), (285, 12745), (290, 12778), (302, 12862), (305, 12892), (308, 12904), (320, 13006), (326, 13084), (330, 13129), (332, 13153), (342, 13207), (343, 13210), (346, 13225), (353, 13267), (357, 13294), (359, 13303), (360, 13318), (361, 13324), (362, 13327), (386, 13468), (391, 13504), (392, 13510), (396, 13528), (401, 13555), (403, 13567), (409, 13621), (412, 13654), (422, 13714), (431, 13795), (432, 13798), (447, 13882), (449, 13897), (461, 14032), (470, 14098), (481, 14233), (508, 14584), (527, 14839), (528, 14848), (534, 14914), (570, 15109), (574, 15130), (579, 15181), (580, 15199), (581, 15205), (585, 15244),

Gene: Deby_21 Start: 12050, Stop: 15883, Start Num: 13

Candidate Starts for Deby_21:

(Start: 13 @12050 has 163 MA's), (22, 12119), (28, 12206), (55, 12383), (61, 12410), (78, 12494), (79, 12503), (89, 12575), (102, 12650), (120, 12734), (122, 12743), (126, 12764), (132, 12803), (143, 12881), (156, 12959), (169, 13049), (180, 13124), (193, 13217), (196, 13238), (197, 13247), (238, 13484), (249, 13523), (258, 13556), (274, 13643), (280, 13667), (295, 13751), (305, 13835), (308, 13847), (312, 13868), (375, 14024), (387, 14105), (396, 14153), (399, 14171), (403, 14192), (407, 14228), (412, 14279), (421, 14336), (431, 14414), (433, 14423), (447, 14501), (449, 14516), (454, 14558), (459, 14612), (481, 14852), (490, 14927), (499, 15038), (510, 15257), (512, 15269), (527, 15452), (528, 15461), (547, 15563), (554, 15584), (570, 15704), (579, 15776), (580, 15794), (581, 15800),

Gene: Devera_21 Start: 12075, Stop: 15929, Start Num: 13

Candidate Starts for Devera_21:

(Start: 13 @12075 has 163 MA's), (22, 12144), (28, 12231), (55, 12411), (61, 12438), (78, 12522), (79, 12531), (88, 12591), (89, 12603), (102, 12678), (111, 12720), (120, 12762), (122, 12771), (126, 12792), (132, 12831), (143, 12909), (150, 12951), (156, 12987), (180, 13152), (193, 13245), (196, 13266), (197, 13275), (243, 13557), (249, 13572), (258, 13605), (274, 13692), (295, 13800), (305, 13884), (308, 13896), (312, 13917), (375, 14073), (387, 14154), (396, 14202), (399, 14220), (403, 14241), (407, 14277), (412, 14328), (421, 14385), (431, 14463), (433, 14472), (447, 14550), (449, 14565), (454, 14607), (459, 14661), (471, 14778), (481, 14901), (490, 14976), (501, 15129), (510, 15306), (519, 15420), (527, 15501), (528, 15510), (539, 15582), (547, 15612), (554, 15633), (570, 15750), (579, 15822), (581, 15846),

Gene: DingDing_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for DingDing_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: DismalFunk_17 Start: 10116, Stop: 13784, Start Num: 12

Candidate Starts for DismalFunk_17:

(Start: 12 @10116 has 10 MA's), (22, 10188), (65, 10422), (77, 10473), (89, 10566), (94, 10587), (102, 10641), (122, 10734), (126, 10755), (129, 10776), (130, 10782), (143, 10872), (150, 10914), (156, 10950), (163, 10983), (164, 10995), (167, 11019), (169, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (222, 11370), (223, 11382), (225, 11388), (231, 11406), (234, 11427), (238, 11451), (243, 11475), (245, 11484), (252, 11499), (264, 11511), (293, 11544), (300, 11592), (316, 11733), (317, 11739), (322, 11775), (327, 11802), (331, 11820), (363, 11946), (382, 12012), (393, 12066), (399, 12099), (403, 12120), (405, 12144), (410, 12174), (413, 12195), (454, 12417), (461, 12510), (471, 12588), (481, 12711), (493, 12816), (496, 12864), (515, 13251), (519, 13281), (520, 13290), (522, 13320), (549, 13485), (570, 13614), (581, 13707),

Gene: DismalStressor_17 Start: 10116, Stop: 13784, Start Num: 12

Candidate Starts for DismalStressor_17:

(Start: 12 @10116 has 10 MA's), (22, 10188), (65, 10422), (77, 10473), (89, 10566), (94, 10587), (102, 10641), (122, 10734), (126, 10755), (129, 10776), (130, 10782), (143, 10872), (150, 10914), (156, 10950), (163, 10983), (164, 10995), (167, 11019), (169, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (222, 11370), (223, 11382), (225, 11388), (231, 11406), (234, 11427), (238, 11451), (243, 11475), (245, 11484), (252, 11499), (264, 11511), (293, 11544), (300, 11592), (316, 11733), (317, 11739), (322, 11775), (327, 11802), (331, 11820), (363, 11946), (382, 12012), (393, 12066), (399, 12099), (403, 12120), (405, 12144), (410, 12174), (413, 12195), (454, 12417), (461, 12510), (471, 12588), (481, 12711), (493, 12816), (496, 12864), (515, 13251), (519, 13281), (520, 13290), (522, 13320), (549, 13485), (570, 13614), (581, 13707),

Gene: Dole_21 Start: 12077, Stop: 15931, Start Num: 13

Candidate Starts for Dole_21:

(Start: 13 @12077 has 163 MA's), (22, 12146), (28, 12233), (55, 12413), (61, 12440), (78, 12524), (79, 12533), (88, 12593), (89, 12605), (102, 12680), (111, 12722), (120, 12764), (122, 12773), (126,

12794), (132, 12833), (143, 12911), (150, 12953), (156, 12989), (180, 13154), (193, 13247), (196, 13268), (197, 13277), (243, 13559), (249, 13574), (258, 13607), (274, 13694), (295, 13802), (305, 13886), (308, 13898), (312, 13919), (375, 14075), (387, 14156), (396, 14204), (399, 14222), (403, 14243), (407, 14279), (412, 14330), (421, 14387), (431, 14465), (433, 14474), (447, 14552), (449, 14567), (454, 14609), (459, 14663), (471, 14780), (481, 14903), (490, 14978), (501, 15131), (510, 15308), (519, 15422), (527, 15503), (528, 15512), (539, 15584), (547, 15614), (554, 15635), (570, 15752), (579, 15824), (581, 15848),

Gene: Doughnut_17 Start: 10138, Stop: 13812, Start Num: 12

Candidate Starts for Doughnut_17:

(Start: 12 @10138 has 10 MA's), (22, 10210), (65, 10444), (77, 10495), (89, 10588), (102, 10663), (122, 10756), (126, 10777), (129, 10798), (130, 10804), (143, 10894), (150, 10936), (156, 10972), (163, 11005), (164, 11017), (167, 11041), (169, 11062), (175, 11086), (176, 11092), (179, 11128), (180, 11137), (186, 11170), (188, 11182), (190, 11209), (222, 11392), (223, 11404), (225, 11410), (234, 11449), (238, 11473), (245, 11506), (262, 11524), (264, 11533), (293, 11566), (316, 11755), (317, 11761), (322, 11797), (327, 11824), (331, 11842), (338, 11860), (363, 11968), (372, 12001), (382, 12034), (393, 12088), (399, 12121), (403, 12142), (405, 12166), (410, 12196), (413, 12217), (454, 12439), (461, 12532), (471, 12610), (481, 12733), (496, 12886), (515, 13273), (519, 13303), (520, 13312), (522, 13342), (530, 13402), (549, 13510), (570, 13642), (581, 13735),

Gene: DrHayes_21 Start: 12024, Stop: 15863, Start Num: 13

Candidate Starts for DrHayes_21:

(Start: 13 @12024 has 163 MA's), (22, 12093), (28, 12180), (55, 12360), (61, 12387), (78, 12471), (79, 12480), (88, 12540), (89, 12552), (102, 12627), (113, 12678), (122, 12720), (126, 12741), (132, 12780), (143, 12858), (156, 12936), (160, 12960), (180, 13101), (193, 13194), (196, 13215), (197, 13224), (238, 13461), (243, 13485), (249, 13500), (258, 13533), (274, 13620), (291, 13707), (295, 13728), (305, 13812), (308, 13824), (312, 13845), (375, 14001), (387, 14082), (399, 14148), (403, 14169), (407, 14205), (412, 14256), (417, 14274), (421, 14313), (431, 14391), (447, 14478), (449, 14493), (454, 14535), (459, 14589), (481, 14829), (490, 14904), (499, 15015), (500, 15036), (501, 15057), (508, 15177), (519, 15351), (527, 15432), (528, 15441), (539, 15513), (547, 15543), (554, 15564), (570, 15684), (579, 15756), (580, 15774), (581, 15780),

Gene: Durfee_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Durfee_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: ECartman_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for ECartman_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522,

15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Efra2_21 Start: 11000, Stop: 15127, Start Num: 14

Candidate Starts for Efra2_21:

(9, 10952), (Start: 14 @11000 has 38 MA's), (25, 11093), (36, 11225), (39, 11249), (45, 11279), (50, 11300), (53, 11312), (67, 11372), (81, 11459), (87, 11492), (90, 11510), (91, 11513), (104, 11585), (133, 11729), (137, 11771), (140, 11786), (146, 11822), (157, 11894), (176, 11996), (198, 12179), (204, 12206), (209, 12224), (210, 12230), (215, 12272), (227, 12344), (229, 12350), (232, 12365), (236, 12386), (239, 12404), (242, 12419), (256, 12467), (263, 12500), (267, 12515), (274, 12554), (279, 12575), (285, 12605), (310, 12773), (313, 12824), (330, 12989), (332, 13013), (343, 13070), (351, 13121), (357, 13154), (359, 13163), (371, 13235), (383, 13310), (386, 13328), (392, 13370), (396, 13388), (401, 13415), (403, 13427), (418, 13556), (422, 13574), (431, 13655), (432, 13658), (447, 13742), (453, 13796), (454, 13799), (461, 13892), (470, 13958), (481, 14093), (494, 14219), (519, 14615), (520, 14624), (527, 14696), (539, 14780), (547, 14810), (550, 14831), (570, 14948), (579, 15020), (581, 15044), (585, 15083),

Gene: Emerson_21 Start: 12076, Stop: 15909, Start Num: 13

Candidate Starts for Emerson_21:

(Start: 13 @12076 has 163 MA's), (22, 12145), (28, 12232), (35, 12307), (55, 12409), (61, 12436), (77, 12508), (78, 12520), (79, 12529), (89, 12601), (102, 12676), (120, 12760), (122, 12769), (126, 12790), (132, 12829), (143, 12907), (156, 12985), (169, 13075), (180, 13150), (193, 13243), (195, 13252), (196, 13264), (197, 13273), (238, 13510), (249, 13549), (258, 13582), (274, 13669), (280, 13693), (295, 13777), (305, 13861), (308, 13873), (312, 13894), (375, 14050), (387, 14131), (396, 14179), (399, 14197), (403, 14218), (407, 14254), (412, 14305), (421, 14362), (431, 14440), (433, 14449), (447, 14527), (449, 14542), (454, 14584), (459, 14638), (481, 14878), (490, 14953), (499, 15064), (510, 15283), (512, 15295), (527, 15478), (528, 15487), (539, 15559), (547, 15589), (554, 15610), (570, 15730), (579, 15802), (580, 15820), (581, 15826),

Gene: Enkosi_17 Start: 11327, Stop: 15460, Start Num: 13

Candidate Starts for Enkosi_17:

(10, 11288), (Start: 13 @11327 has 163 MA's), (22, 11396), (28, 11483), (35, 11561), (57, 11669), (61, 11690), (70, 11723), (89, 11855), (93, 11870), (94, 11876), (102, 11930), (108, 11960), (122, 12023), (126, 12044), (132, 12083), (143, 12161), (156, 12239), (160, 12263), (193, 12497), (209, 12578), (216, 12638), (223, 12695), (233, 12731), (238, 12764), (243, 12788), (261, 12854), (263, 12863), (274, 12923), (295, 13031), (300, 13076), (321, 13232), (329, 13343), (330, 13352), (331, 13364), (339, 13415), (343, 13433), (348, 13460), (353, 13490), (367, 13583), (375, 13622), (403, 13790), (409, 13844), (412, 13877), (420, 13922), (431, 14003), (432, 14006), (447, 14090), (448, 14096), (449, 14105), (454, 14147), (458, 14183), (459, 14201), (461, 14240), (468, 14300), (481, 14441), (488, 14501), (490, 14516), (512, 14858), (527, 15047), (528, 15056), (537, 15119), (581, 15395),

Gene: Findley_17 Start: 10116, Stop: 13787, Start Num: 12

Candidate Starts for Findley_17:

(Start: 12 @10116 has 10 MA's), (22, 10188), (65, 10422), (77, 10473), (89, 10566), (94, 10587), (102, 10641), (122, 10734), (126, 10755), (129, 10776), (130, 10782), (143, 10872), (150, 10914), (156, 10950), (163, 10983), (164, 10995), (167, 11019), (169, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (222, 11370), (223, 11382), (225, 11388), (231, 11406), (234, 11427), (238, 11451), (243, 11475), (245, 11484), (252, 11499), (264, 11511), (293, 11544), (300, 11592), (316, 11733), (317, 11739), (322, 11775), (327, 11802), (331, 11820), (344, 11850), (363, 11946), (372, 11979), (383, 12015), (393, 12066), (399, 12099), (403, 12120), (405, 12144), (410, 12174), (413, 12195), (443, 12339), (454, 12417), (461, 12510), (471, 12588), (481, 12711), (493, 12816), (496, 12864), (519, 13284), (520, 13293), (522, 13323), (549, 13488), (570, 13617), (581, 13710),

Gene: Frosty24_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Frosty24_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Ganymede_22 Start: 12096, Stop: 15929, Start Num: 13

Candidate Starts for Ganymede_22:

(Start: 13 @12096 has 163 MA's), (22, 12165), (28, 12252), (55, 12429), (61, 12456), (78, 12540), (79, 12549), (89, 12621), (102, 12696), (120, 12780), (122, 12789), (126, 12810), (132, 12849), (143, 12927), (156, 13005), (169, 13095), (180, 13170), (193, 13263), (196, 13284), (197, 13293), (238, 13530), (249, 13569), (258, 13602), (274, 13689), (280, 13713), (295, 13797), (305, 13881), (308, 13893), (312, 13914), (375, 14070), (387, 14151), (396, 14199), (399, 14217), (403, 14238), (407, 14274), (412, 14325), (421, 14382), (431, 14460), (433, 14469), (447, 14547), (454, 14604), (459, 14658), (481, 14898), (490, 14973), (499, 15084), (510, 15303), (512, 15315), (527, 15498), (528, 15507), (539, 15579), (547, 15609), (554, 15630), (570, 15750), (579, 15822), (580, 15840), (581, 15846),

Gene: Geraldini_21 Start: 12092, Stop: 15925, Start Num: 13

Candidate Starts for Geraldini_21:

(Start: 13 @12092 has 163 MA's), (22, 12161), (23, 12182), (28, 12248), (55, 12425), (61, 12452), (77, 12524), (78, 12536), (79, 12545), (89, 12617), (102, 12692), (120, 12776), (122, 12785), (126, 12806), (132, 12845), (143, 12923), (156, 13001), (169, 13091), (180, 13166), (193, 13259), (195, 13268), (196, 13280), (197, 13289), (238, 13526), (249, 13565), (258, 13598), (274, 13685), (280, 13709), (295, 13793), (305, 13877), (308, 13889), (312, 13910), (375, 14066), (387, 14147), (396, 14195), (399, 14213), (403, 14234), (407, 14270), (412, 14321), (421, 14378), (431, 14456), (433, 14465), (447, 14543), (449, 14558), (454, 14600), (459, 14654), (481, 14894), (490, 14969), (499, 15080), (510, 15299), (512, 15311), (527, 15494), (528, 15503), (539, 15575), (547, 15605), (554, 15626), (570, 15746), (579, 15818), (580, 15836), (581, 15842),

Gene: Gideon_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Gideon_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: GodSpeed_17 Start: 11597, Stop: 15640, Start Num: 14

Candidate Starts for GodSpeed_17:

(Start: 14 @11597 has 38 MA's), (24, 11690), (27, 11720), (37, 11867), (57, 11951), (61, 11972), (68, 11999), (76, 12023), (77, 12044), (89, 12137), (94, 12158), (122, 12305), (129, 12347), (132, 12365),

(135, 12389), (136, 12401), (147, 12461), (148, 12473), (151, 12488), (156, 12521), (168, 12599), (177, 12653), (179, 12677), (182, 12698), (186, 12719), (188, 12731), (190, 12758), (196, 12800), (203, 12848), (232, 13019), (234, 13031), (246, 13088), (252, 13103), (263, 13154), (265, 13169), (274, 13214), (289, 13292), (311, 13433), (317, 13514), (321, 13523), (325, 13583), (326, 13598), (336, 13697), (341, 13718), (348, 13751), (352, 13778), (358, 13811), (360, 13832), (370, 13886), (371, 13889), (381, 13943), (383, 13964), (402, 14072), (408, 14126), (424, 14234), (426, 14249), (430, 14297), (435, 14318), (437, 14333), (449, 14396), (451, 14408), (452, 14432), (453, 14435), (455, 14450), (460, 14501), (461, 14528), (474, 14633), (481, 14729), (490, 14804), (500, 14927), (501, 14948), (505, 15011), (506, 15020), (513, 15149), (521, 15230), (522, 15257), (525, 15287), (527, 15299), (532, 15329), (554, 15467), (564, 15548), (567, 15566),

Gene: GoldenAsh_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for GoldenAsh_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Gomashi_16 Start: 11465, Stop: 15478, Start Num: 13

Candidate Starts for Gomashi_16:

(Start: 13 @11465 has 163 MA's), (30, 11666), (51, 11780), (61, 11822), (69, 11852), (89, 11987), (92, 11999), (94, 12008), (129, 12197), (132, 12215), (133, 12218), (135, 12239), (136, 12251), (148, 12323), (156, 12371), (177, 12503), (179, 12527), (190, 12608), (212, 12731), (222, 12815), (231, 12851), (238, 12896), (239, 12902), (265, 13010), (270, 13034), (274, 13055), (311, 13274), (325, 13424), (333, 13511), (352, 13619), (375, 13754), (392, 13865), (396, 13883), (402, 13913), (429, 14135), (435, 14159), (437, 14174), (441, 14195), (447, 14222), (451, 14249), (457, 14309), (464, 14399), (467, 14432), (475, 14495), (478, 14552), (480, 14585), (482, 14594), (521, 15098), (522, 15125), (525, 15155), (527, 15167), (528, 15176), (539, 15245), (557, 15326), (564, 15386), (567, 15404), (568, 15413),

Gene: Grizzly_16 Start: 11464, Stop: 15480, Start Num: 13

Candidate Starts for Grizzly_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (59, 11812), (61, 11821), (69, 11851), (89, 11986), (94, 12007), (122, 12154), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (228, 12841), (231, 12850), (239, 12901), (244, 12925), (254, 12952), (274, 13054), (309, 13261), (311, 13273), (324, 13420), (325, 13423), (352, 13618), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (442, 14197), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (469, 14446), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15100), (522, 15127), (525, 15157), (527, 15169), (528, 15178), (539, 15247), (557, 15328), (564, 15388), (567, 15406), (568, 15415),

Gene: Guanica15_21 Start: 11016, Stop: 15143, Start Num: 14

Candidate Starts for Guanica15_21:

(9, 10968), (Start: 14 @11016 has 38 MA's), (25, 11109), (36, 11241), (39, 11265), (45, 11295), (50, 11316), (53, 11328), (67, 11388), (81, 11475), (87, 11508), (90, 11526), (91, 11529), (104, 11601), (133, 11745), (137, 11787), (140, 11802), (146, 11838), (157, 11910), (176, 12012), (198, 12195), (204, 12222), (209, 12240), (210, 12246), (215, 12288), (227, 12360), (229, 12366), (232, 12381),

(236, 12402), (239, 12420), (242, 12435), (256, 12483), (263, 12516), (267, 12531), (274, 12570), (279, 12591), (285, 12621), (310, 12789), (313, 12840), (330, 13005), (332, 13029), (343, 13086), (351, 13137), (357, 13170), (359, 13179), (371, 13251), (383, 13326), (386, 13344), (392, 13386), (396, 13404), (401, 13431), (403, 13443), (418, 13572), (422, 13590), (431, 13671), (432, 13674), (447, 13758), (453, 13812), (454, 13815), (461, 13908), (470, 13974), (481, 14109), (494, 14235), (519, 14631), (520, 14640), (527, 14712), (539, 14796), (570, 14964), (579, 15036), (581, 15060), (585, 15099),

Gene: Halo_16 Start: 11459, Stop: 15472, Start Num: 13

Candidate Starts for Halo_16:

(Start: 13 @11459 has 163 MA's), (30, 11660), (51, 11774), (61, 11816), (69, 11846), (89, 11981), (92, 11993), (94, 12002), (129, 12191), (132, 12209), (133, 12212), (135, 12233), (136, 12245), (148, 12317), (156, 12365), (177, 12497), (179, 12521), (190, 12602), (212, 12725), (222, 12809), (231, 12845), (238, 12890), (239, 12896), (265, 13004), (270, 13028), (274, 13049), (311, 13268), (325, 13418), (333, 13505), (352, 13613), (375, 13748), (392, 13859), (396, 13877), (402, 13907), (429, 14129), (435, 14153), (437, 14168), (441, 14189), (447, 14216), (451, 14243), (457, 14303), (464, 14393), (467, 14426), (475, 14489), (478, 14546), (480, 14579), (482, 14588), (521, 15092), (522, 15119), (525, 15149), (527, 15161), (528, 15170), (539, 15239), (557, 15320), (564, 15380), (567, 15398), (568, 15407),

Gene: HedwigODU_21 Start: 12079, Stop: 15918, Start Num: 13

Candidate Starts for HedwigODU_21:

(Start: 13 @12079 has 163 MA's), (22, 12148), (28, 12235), (55, 12412), (61, 12439), (77, 12511), (78, 12523), (79, 12532), (89, 12604), (102, 12679), (120, 12763), (122, 12772), (126, 12793), (132, 12832), (143, 12910), (156, 12988), (169, 13078), (180, 13153), (193, 13246), (195, 13255), (196, 13267), (197, 13276), (243, 13537), (249, 13552), (258, 13585), (274, 13672), (280, 13696), (295, 13780), (305, 13864), (308, 13876), (312, 13897), (375, 14053), (387, 14134), (396, 14182), (399, 14200), (403, 14221), (407, 14257), (412, 14308), (421, 14365), (431, 14443), (433, 14452), (447, 14530), (454, 14587), (459, 14641), (481, 14881), (490, 14956), (499, 15067), (510, 15286), (512, 15298), (527, 15487), (528, 15496), (539, 15568), (547, 15598), (554, 15619), (570, 15739), (579, 15811), (580, 15829), (581, 15835),

Gene: Homura_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Homura_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (497, 15089), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Hope_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Hope_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522,

15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Hotshotbaby7_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Hotshotbaby7_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Hurricane_20 Start: 12208, Stop: 16356, Start Num: 13

Candidate Starts for Hurricane_20:

(Start: 13 @12208 has 163 MA's), (22, 12277), (23, 12298), (25, 12304), (28, 12364), (46, 12502), (57, 12547), (61, 12568), (66, 12589), (77, 12640), (88, 12721), (89, 12733), (94, 12754), (102, 12808), (111, 12850), (122, 12901), (126, 12922), (128, 12940), (133, 12964), (139, 13015), (143, 13039), (151, 13084), (156, 13117), (160, 13141), (186, 13315), (193, 13375), (196, 13396), (197, 13405), (223, 13573), (230, 13594), (234, 13618), (238, 13642), (242, 13663), (250, 13681), (255, 13702), (258, 13714), (265, 13756), (266, 13759), (274, 13801), (277, 13816), (286, 13879), (303, 13990), (307, 14020), (314, 14098), (328, 14218), (330, 14251), (345, 14341), (348, 14359), (353, 14389), (357, 14416), (392, 14632), (399, 14668), (409, 14743), (412, 14776), (414, 14788), (422, 14836), (431, 14917), (432, 14920), (454, 15037), (461, 15130), (471, 15208), (479, 15307), (481, 15331), (490, 15406), (519, 15865), (520, 15874), (521, 15877), (527, 15946), (528, 15955), (556, 16087), (563, 16147), (565, 16165), (572, 16201), (574, 16210), (580, 16276), (581, 16282), (583, 16297), (584, 16309),

Gene: Hyperbowlee_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Hyperbowlee_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Illumine_21 Start: 12077, Stop: 15931, Start Num: 13

Candidate Starts for Illumine_21:

(Start: 13 @12077 has 163 MA's), (22, 12146), (28, 12233), (55, 12413), (61, 12440), (78, 12524), (79, 12533), (88, 12593), (89, 12605), (102, 12680), (111, 12722), (120, 12764), (122, 12773), (126, 12794), (132, 12833), (143, 12911), (150, 12953), (156, 12989), (180, 13154), (193, 13247), (196, 13268), (197, 13277), (243, 13559), (249, 13574), (258, 13607), (274, 13694), (295, 13802), (305, 13886), (308, 13898), (312, 13919), (375, 14075), (387, 14156), (396, 14204), (399, 14222), (403, 14243), (407, 14279), (412, 14330), (421, 14387), (431, 14465), (433, 14474), (447, 14552), (449, 14567), (454, 14609), (459, 14663), (471, 14780), (481, 14903), (490, 14978), (501, 15131), (510, 15308), (519, 15422), (527, 15503), (528, 15512), (539, 15584), (547, 15614), (554, 15635), (570, 15752), (579, 15824), (581, 15848),

Gene: Inky_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Inky_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: JAWS_21 Start: 12070, Stop: 15903, Start Num: 13

Candidate Starts for JAWS_21:

(Start: 13 @12070 has 163 MA's), (22, 12139), (28, 12226), (35, 12301), (55, 12403), (61, 12430), (77, 12502), (78, 12514), (79, 12523), (89, 12595), (102, 12670), (120, 12754), (122, 12763), (126, 12784), (132, 12823), (136, 12859), (143, 12901), (156, 12979), (169, 13069), (180, 13144), (193, 13237), (195, 13246), (196, 13258), (197, 13267), (238, 13504), (249, 13543), (258, 13576), (274, 13663), (280, 13687), (295, 13771), (305, 13855), (308, 13867), (312, 13888), (375, 14044), (387, 14125), (396, 14173), (399, 14191), (403, 14212), (407, 14248), (412, 14299), (421, 14356), (431, 14434), (433, 14443), (447, 14521), (449, 14536), (454, 14578), (459, 14632), (481, 14872), (490, 14947), (499, 15058), (510, 15277), (512, 15289), (527, 15472), (528, 15481), (539, 15553), (547, 15583), (554, 15604), (570, 15724), (579, 15796), (580, 15814), (581, 15820),

Gene: Jane_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Jane_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Jarvi_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Jarvi_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Jayhawk_21 Start: 12080, Stop: 15916, Start Num: 13

Candidate Starts for Jayhawk_21:

(Start: 13 @12080 has 163 MA's), (22, 12149), (28, 12236), (55, 12413), (61, 12440), (77, 12512), (78, 12524), (79, 12533), (89, 12605), (102, 12680), (120, 12764), (122, 12773), (126, 12794), (132,

12833), (143, 12911), (156, 12989), (169, 13079), (180, 13154), (193, 13247), (195, 13256), (196, 13268), (197, 13277), (243, 13538), (249, 13553), (258, 13586), (274, 13673), (280, 13697), (295, 13781), (305, 13865), (308, 13877), (312, 13898), (375, 14054), (387, 14135), (396, 14183), (399, 14201), (403, 14222), (407, 14258), (412, 14309), (421, 14366), (431, 14444), (433, 14453), (447, 14531), (454, 14588), (459, 14642), (481, 14882), (490, 14957), (499, 15068), (510, 15287), (512, 15299), (527, 15485), (528, 15494), (539, 15566), (547, 15596), (554, 15617), (570, 15737), (579, 15809), (580, 15827), (581, 15833),

Gene: Jeckyll_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Jeckyll_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Jeilious_16 Start: 11463, Stop: 15476, Start Num: 13

Candidate Starts for Jeilious_16:

(Start: 13 @11463 has 163 MA's), (30, 11664), (51, 11778), (61, 11820), (69, 11850), (89, 11985), (92, 11997), (94, 12006), (129, 12195), (132, 12213), (133, 12216), (135, 12237), (136, 12249), (148, 12321), (156, 12369), (177, 12501), (179, 12525), (190, 12606), (212, 12729), (222, 12813), (231, 12849), (238, 12894), (239, 12900), (265, 13008), (270, 13032), (274, 13053), (311, 13272), (325, 13422), (333, 13509), (352, 13617), (375, 13752), (392, 13863), (396, 13881), (402, 13911), (429, 14133), (435, 14157), (437, 14172), (441, 14193), (447, 14220), (451, 14247), (457, 14307), (464, 14397), (467, 14430), (475, 14493), (478, 14550), (480, 14583), (482, 14592), (521, 15096), (522, 15123), (525, 15153), (527, 15165), (528, 15174), (539, 15243), (557, 15324), (564, 15384), (567, 15402), (568, 15411),

Gene: Jolene_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Jolene_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Jolie2_16 Start: 10765, Stop: 14787, Start Num: 14

Candidate Starts for Jolie2_16:

(Start: 14 @10765 has 38 MA's), (22, 10834), (25, 10861), (32, 10975), (58, 11098), (62, 11122), (63, 11125), (72, 11158), (73, 11161), (78, 11203), (79, 11212), (100, 11344), (105, 11368), (109, 11386), (118, 11431), (124, 11455), (125, 11467), (133, 11509), (137, 11551), (145, 11596), (146, 11602), (156, 11665), (157, 11674), (159, 11686), (162, 11695), (166, 11728), (176, 11776), (198, 11953), (206, 11986), (207, 11989), (210, 12004), (229, 12124), (232, 12139), (235, 12157), (236, 12160), (242, 12193), (251, 12220), (261, 12265), (267, 12289), (270, 12307), (274, 12328), (292, 12424), (302, 12496), (325, 12703), (329, 12754), (343, 12844), (345, 12853), (348, 12871), (351, 12895),

(353, 12901), (362, 12961), (370, 13006), (371, 13009), (373, 13015), (385, 13093), (390, 13126), (403, 13201), (429, 13414), (434, 13435), (435, 13438), (437, 13453), (444, 13486), (457, 13588), (464, 13678), (475, 13771), (477, 13825), (478, 13828), (480, 13861), (483, 13876), (486, 13915), (492, 13942), (501, 14080), (508, 14200), (514, 14287), (525, 14443), (527, 14455), (536, 14539), (545, 14578), (567, 14713),

Gene: Jonghyun_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Jonghyun_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: JorRay_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for JorRay_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Joy99_21 Start: 12045, Stop: 15878, Start Num: 13

Candidate Starts for Joy99_21:

(Start: 13 @12045 has 163 MA's), (22, 12114), (23, 12135), (28, 12201), (55, 12378), (61, 12405), (77, 12477), (78, 12489), (79, 12498), (89, 12570), (102, 12645), (120, 12729), (122, 12738), (126, 12759), (132, 12798), (143, 12876), (156, 12954), (169, 13044), (180, 13119), (193, 13212), (195, 13221), (196, 13233), (197, 13242), (238, 13479), (249, 13518), (258, 13551), (274, 13638), (280, 13662), (295, 13746), (305, 13830), (308, 13842), (312, 13863), (375, 14019), (387, 14100), (396, 14148), (399, 14166), (403, 14187), (407, 14223), (412, 14274), (421, 14331), (431, 14409), (433, 14418), (447, 14496), (449, 14511), (454, 14553), (459, 14607), (481, 14847), (490, 14922), (499, 15033), (510, 15252), (512, 15264), (527, 15447), (528, 15456), (539, 15528), (547, 15558), (554, 15579), (570, 15699), (579, 15771), (580, 15789), (581, 15795),

Gene: Kareem_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Kareem_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Kasen3_16 Start: 11465, Stop: 15478, Start Num: 13

Candidate Starts for Kasen3_16:

(Start: 13 @11465 has 163 MA's), (30, 11666), (51, 11780), (61, 11822), (69, 11852), (89, 11987), (92, 11999), (94, 12008), (129, 12197), (132, 12215), (133, 12218), (135, 12239), (136, 12251), (148, 12323), (156, 12371), (177, 12503), (179, 12527), (190, 12608), (212, 12731), (222, 12815), (231, 12851), (238, 12896), (239, 12902), (265, 13010), (270, 13034), (274, 13055), (311, 13274), (325, 13424), (333, 13511), (352, 13619), (375, 13754), (392, 13865), (396, 13883), (402, 13913), (429, 14135), (435, 14159), (437, 14174), (441, 14195), (447, 14222), (451, 14249), (457, 14309), (464, 14399), (467, 14432), (475, 14495), (478, 14552), (480, 14585), (482, 14594), (521, 15098), (522, 15125), (525, 15155), (527, 15167), (528, 15176), (539, 15245), (557, 15326), (564, 15386), (567, 15404), (568, 15413),

Gene: Keshu_20 Start: 12188, Stop: 16348, Start Num: 13

Candidate Starts for Keshu_20:

(Start: 13 @12188 has 163 MA's), (22, 12257), (23, 12278), (25, 12284), (28, 12344), (46, 12482), (51, 12506), (57, 12527), (61, 12548), (66, 12569), (88, 12701), (89, 12713), (94, 12734), (102, 12788), (108, 12818), (113, 12839), (120, 12872), (122, 12881), (126, 12902), (132, 12941), (143, 13019), (150, 13061), (156, 13097), (160, 13121), (186, 13295), (190, 13334), (193, 13355), (196, 13376), (197, 13385), (230, 13574), (234, 13598), (238, 13622), (242, 13643), (250, 13661), (258, 13694), (260, 13703), (265, 13736), (266, 13739), (267, 13742), (274, 13781), (276, 13790), (286, 13859), (303, 13970), (307, 14000), (314, 14078), (328, 14198), (330, 14231), (345, 14321), (348, 14339), (353, 14369), (357, 14396), (375, 14501), (381, 14531), (399, 14648), (407, 14705), (409, 14723), (411, 14744), (412, 14756), (422, 14816), (431, 14897), (432, 14900), (448, 14990), (454, 15020), (461, 15113), (471, 15191), (481, 15314), (490, 15389), (519, 15854), (521, 15866), (527, 15935), (528, 15944), (532, 15965), (563, 16139), (565, 16157), (572, 16193), (574, 16202), (580, 16268), (581, 16274), (583, 16289), (584, 16301),

Gene: KiSi_20 Start: 11011, Stop: 15084, Start Num: 14

Candidate Starts for KiSi_20:

(Start: 14 @11011 has 38 MA's), (25, 11104), (40, 11263), (41, 11272), (43, 11281), (64, 11374), (78, 11443), (79, 11452), (80, 11464), (81, 11470), (87, 11503), (94, 11539), (103, 11596), (105, 11608), (116, 11662), (123, 11692), (137, 11779), (140, 11794), (146, 11830), (176, 12004), (198, 12187), (200, 12196), (210, 12238), (215, 12280), (223, 12340), (227, 12352), (229, 12358), (232, 12373), (235, 12391), (236, 12394), (242, 12427), (272, 12550), (274, 12562), (275, 12568), (279, 12583), (281, 12589), (306, 12673), (314, 12754), (330, 12907), (346, 13003), (348, 13015), (353, 13045), (360, 13096), (364, 13117), (369, 13147), (371, 13153), (375, 13177), (385, 13237), (392, 13288), (401, 13333), (409, 13399), (412, 13432), (421, 13489), (431, 13567), (432, 13570), (447, 13654), (451, 13681), (454, 13711), (459, 13765), (461, 13804), (481, 14005), (490, 14080), (508, 14365), (510, 14422), (527, 14623), (541, 14737), (570, 14914), (579, 14998), (581, 15019),

Gene: Krueger_20 Start: 11051, Stop: 15055, Start Num: 14

Candidate Starts for Krueger_20:

(Start: 14 @11051 has 38 MA's), (25, 11144), (31, 11249), (40, 11303), (43, 11321), (48, 11339), (54, 11369), (60, 11396), (62, 11402), (75, 11447), (87, 11543), (90, 11561), (91, 11564), (114, 11678), (116, 11693), (137, 11810), (140, 11825), (153, 11906), (164, 11966), (165, 11975), (176, 12035), (198, 12218), (199, 12224), (211, 12281), (223, 12371), (227, 12383), (229, 12389), (232, 12404), (236, 12425), (239, 12443), (259, 12518), (266, 12551), (272, 12581), (274, 12593), (279, 12614), (287, 12653), (304, 12698), (308, 12713), (324, 12875), (330, 12938), (333, 12965), (347, 13037), (353, 13076), (360, 13127), (364, 13148), (369, 13178), (371, 13184), (375, 13208), (383, 13259), (391, 13313), (399, 13355), (403, 13376), (407, 13412), (412, 13463), (431, 13604), (432, 13607), (447, 13691), (451, 13718), (459, 13802), (481, 14042), (490, 14117), (519, 14555), (520, 14564), (527, 14636), (528, 14645), (539, 14720), (547, 14750), (553, 14771), (570, 14888), (579, 14963),

(583, 15002), (584, 15014),

Gene: LastHope_21 Start: 11090, Stop: 15217, Start Num: 14

Candidate Starts for LastHope_21:

(9, 11042), (Start: 14 @11090 has 38 MA's), (25, 11183), (36, 11315), (39, 11339), (45, 11369), (50, 11390), (53, 11402), (54, 11408), (60, 11435), (67, 11462), (81, 11549), (87, 11582), (90, 11600), (91, 11603), (97, 11645), (108, 11693), (133, 11819), (137, 11861), (140, 11876), (146, 11912), (157, 11984), (176, 12086), (193, 12224), (198, 12269), (208, 12311), (209, 12314), (210, 12320), (211, 12332), (215, 12362), (223, 12422), (229, 12440), (232, 12455), (235, 12473), (236, 12476), (242, 12509), (263, 12590), (267, 12605), (274, 12644), (279, 12665), (305, 12842), (308, 12854), (313, 12914), (320, 12956), (330, 13079), (332, 13103), (343, 13160), (346, 13175), (347, 13178), (357, 13244), (359, 13253), (362, 13277), (371, 13325), (383, 13400), (386, 13418), (396, 13478), (401, 13505), (403, 13517), (407, 13553), (409, 13571), (414, 13616), (418, 13646), (422, 13664), (431, 13745), (432, 13748), (447, 13832), (449, 13847), (453, 13886), (454, 13889), (461, 13982), (470, 14048), (481, 14183), (508, 14534), (519, 14705), (527, 14786), (532, 14816), (539, 14870), (570, 15038), (579, 15110), (580, 15128), (581, 15134),

Gene: LaterM_21 Start: 12043, Stop: 15876, Start Num: 13

Candidate Starts for LaterM_21:

(Start: 13 @12043 has 163 MA's), (22, 12112), (28, 12199), (55, 12379), (61, 12406), (78, 12490), (79, 12499), (88, 12559), (89, 12571), (102, 12646), (111, 12688), (120, 12730), (122, 12739), (126, 12760), (132, 12799), (143, 12877), (156, 12955), (180, 13120), (193, 13213), (196, 13234), (197, 13243), (238, 13480), (243, 13504), (249, 13519), (258, 13552), (274, 13639), (295, 13747), (305, 13831), (308, 13843), (312, 13864), (320, 13945), (375, 14020), (387, 14101), (389, 14110), (396, 14149), (399, 14167), (403, 14188), (407, 14224), (412, 14275), (421, 14332), (431, 14410), (433, 14419), (447, 14497), (449, 14512), (454, 14554), (459, 14608), (481, 14848), (490, 14923), (499, 15034), (510, 15253), (519, 15367), (527, 15448), (528, 15457), (539, 15529), (547, 15559), (554, 15580), (570, 15697), (579, 15769), (581, 15793),

Gene: LeMond_20 Start: 11082, Stop: 15155, Start Num: 14

Candidate Starts for LeMond_20:

(Start: 14 @11082 has 38 MA's), (25, 11175), (36, 11307), (64, 11445), (79, 11523), (80, 11535), (81, 11541), (87, 11574), (94, 11610), (103, 11667), (105, 11679), (116, 11733), (123, 11763), (137, 11850), (140, 11865), (146, 11901), (162, 11994), (176, 12075), (198, 12258), (200, 12267), (210, 12309), (215, 12351), (223, 12411), (227, 12423), (229, 12429), (232, 12444), (236, 12465), (242, 12498), (272, 12621), (274, 12633), (275, 12639), (279, 12654), (281, 12660), (306, 12744), (314, 12825), (330, 12978), (346, 13074), (353, 13116), (360, 13167), (364, 13188), (369, 13218), (371, 13224), (375, 13248), (385, 13308), (392, 13359), (401, 13404), (403, 13416), (409, 13470), (412, 13503), (421, 13560), (431, 13638), (432, 13641), (447, 13725), (454, 13782), (459, 13836), (461, 13875), (474, 13980), (481, 14076), (490, 14151), (499, 14274), (510, 14493), (527, 14694), (541, 14808), (570, 14985), (579, 15069), (581, 15090),

Gene: Lea83_20 Start: 12197, Stop: 16345, Start Num: 13

Candidate Starts for Lea83_20:

(Start: 13 @12197 has 163 MA's), (22, 12266), (23, 12287), (25, 12293), (28, 12353), (46, 12491), (57, 12536), (61, 12557), (74, 12602), (88, 12710), (89, 12722), (94, 12743), (102, 12797), (108, 12827), (113, 12848), (120, 12881), (122, 12890), (126, 12911), (132, 12950), (143, 13028), (150, 13070), (156, 13106), (160, 13130), (186, 13304), (193, 13364), (196, 13385), (197, 13394), (223, 13562), (230, 13583), (234, 13607), (238, 13631), (242, 13652), (250, 13670), (258, 13703), (265, 13745), (266, 13748), (267, 13751), (274, 13790), (276, 13799), (286, 13868), (303, 13979), (307, 14009), (328, 14207), (330, 14240), (345, 14330), (348, 14348), (353, 14378), (357, 14405), (392, 14621), (399, 14657), (407, 14714), (409, 14732), (412, 14765), (414, 14777), (422, 14825), (431, 14906), (432, 14909), (454, 15026), (461, 15119), (471, 15197), (479, 15296), (481, 15320), (490, 15395),

(519, 15854), (521, 15866), (527, 15935), (528, 15944), (563, 16136), (565, 16154), (572, 16190), (574, 16199), (580, 16265), (581, 16271), (583, 16286), (584, 16298),

Gene: Lemuria_16 Start: 10811, Stop: 14821, Start Num: 14

Candidate Starts for Lemuria_16:

(Start: 14 @10811 has 38 MA's), (25, 10907), (30, 11012), (32, 11021), (58, 11144), (62, 11168), (63, 11171), (72, 11204), (73, 11207), (79, 11258), (84, 11285), (90, 11327), (97, 11372), (106, 11408), (107, 11417), (108, 11420), (109, 11423), (123, 11489), (133, 11546), (137, 11588), (146, 11639), (155, 11699), (157, 11711), (159, 11723), (162, 11732), (176, 11813), (192, 11942), (198, 11990), (205, 12020), (208, 12032), (210, 12041), (215, 12083), (223, 12143), (229, 12161), (232, 12176), (236, 12197), (242, 12230), (251, 12257), (254, 12269), (261, 12302), (267, 12326), (270, 12344), (274, 12365), (292, 12461), (302, 12533), (329, 12791), (332, 12824), (348, 12908), (352, 12935), (358, 12968), (362, 12998), (369, 13040), (371, 13046), (385, 13130), (393, 13184), (409, 13292), (429, 13451), (435, 13475), (437, 13490), (442, 13514), (457, 13625), (463, 13712), (464, 13715), (473, 13802), (475, 13811), (478, 13868), (480, 13901), (486, 13955), (492, 13982), (500, 14096), (514, 14324), (517, 14390), (521, 14426), (525, 14483), (527, 14495), (536, 14573), (545, 14612), (551, 14639), (567, 14747),

Gene: Liefie_16 Start: 11463, Stop: 15476, Start Num: 13

Candidate Starts for Liefie_16:

(Start: 13 @11463 has 163 MA's), (30, 11664), (49, 11766), (51, 11778), (61, 11820), (66, 11841), (69, 11850), (89, 11985), (92, 11997), (94, 12006), (129, 12195), (132, 12213), (133, 12216), (135, 12237), (136, 12249), (148, 12321), (156, 12369), (177, 12501), (179, 12525), (190, 12606), (212, 12729), (222, 12813), (231, 12849), (238, 12894), (239, 12900), (265, 13008), (270, 13032), (274, 13053), (311, 13272), (325, 13422), (333, 13509), (352, 13617), (375, 13752), (391, 13857), (392, 13863), (396, 13881), (402, 13911), (429, 14133), (435, 14157), (437, 14172), (441, 14193), (451, 14247), (457, 14307), (464, 14397), (467, 14430), (475, 14493), (478, 14550), (480, 14583), (482, 14592), (521, 15096), (522, 15123), (525, 15153), (527, 15165), (528, 15174), (539, 15243), (557, 15324), (564, 15384), (567, 15402), (568, 15411),

Gene: LilPharaoh_17 Start: 11327, Stop: 15460, Start Num: 13

Candidate Starts for LilPharaoh_17:

(10, 11288), (Start: 13 @11327 has 163 MA's), (22, 11396), (28, 11483), (35, 11561), (57, 11669), (61, 11690), (70, 11723), (89, 11855), (93, 11870), (94, 11876), (102, 11930), (108, 11960), (122, 12023), (126, 12044), (132, 12083), (143, 12161), (156, 12239), (160, 12263), (193, 12497), (209, 12578), (216, 12638), (223, 12695), (233, 12731), (238, 12764), (243, 12788), (261, 12854), (263, 12863), (274, 12923), (295, 13031), (300, 13076), (321, 13232), (329, 13343), (330, 13352), (331, 13364), (339, 13415), (343, 13433), (348, 13460), (353, 13490), (367, 13583), (375, 13622), (403, 13790), (409, 13844), (412, 13877), (420, 13922), (431, 14003), (432, 14006), (447, 14090), (448, 14096), (449, 14105), (454, 14147), (458, 14183), (459, 14201), (461, 14240), (468, 14300), (481, 14441), (488, 14501), (490, 14516), (512, 14858), (527, 15047), (528, 15056), (537, 15119), (581, 15395),

Gene: LindNT_21 Start: 12047, Stop: 15883, Start Num: 13

Candidate Starts for LindNT_21:

(Start: 13 @12047 has 163 MA's), (22, 12116), (28, 12203), (55, 12383), (61, 12410), (79, 12503), (88, 12563), (89, 12575), (102, 12650), (113, 12701), (122, 12743), (126, 12764), (132, 12803), (143, 12881), (156, 12959), (160, 12983), (180, 13124), (193, 13217), (195, 13226), (196, 13238), (197, 13247), (238, 13484), (243, 13508), (249, 13523), (258, 13556), (274, 13643), (280, 13667), (295, 13751), (305, 13835), (308, 13847), (312, 13868), (320, 13949), (375, 14024), (387, 14105), (396, 14153), (399, 14171), (402, 14183), (403, 14192), (407, 14228), (412, 14279), (421, 14336), (431, 14414), (433, 14423), (447, 14501), (449, 14516), (454, 14558), (459, 14612), (481, 14852), (490, 14927), (499, 15038), (510, 15257), (512, 15269), (519, 15371), (527, 15452), (528, 15461), (539, 15533), (547, 15563), (554, 15584), (570, 15704), (579, 15776), (580, 15794), (581, 15800),

Gene: Llorens_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Llorens_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: LouisV14_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for LouisV14_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Lunahalos_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Lunahalos_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: MOOREtheMARYer_16 Start: 11710, Stop: 15720, Start Num: 14

Candidate Starts for MOOREtheMARYer_16:

(Start: 14 @11710 has 38 MA's), (25, 11806), (43, 11986), (50, 12016), (56, 12040), (60, 12061), (64, 12079), (81, 12175), (83, 12181), (85, 12196), (87, 12208), (90, 12226), (96, 12268), (97, 12271), (106, 12307), (108, 12319), (115, 12349), (117, 12361), (119, 12370), (133, 12445), (137, 12487), (140, 12502), (146, 12538), (148, 12553), (156, 12601), (157, 12610), (176, 12712), (187, 12796), (194, 12853), (198, 12895), (206, 12928), (207, 12931), (208, 12937), (210, 12946), (215, 12988), (227, 13060), (229, 13066), (232, 13081), (235, 13099), (236, 13102), (251, 13162), (261, 13207), (267, 13231), (270, 13249), (274, 13270), (280, 13294), (282, 13306), (283, 13309), (292, 13366), (302, 13438), (308, 13480), (325, 13645), (333, 13732), (336, 13759), (341, 13780), (353, 13843), (360, 13894), (371, 13951), (375, 13975), (383, 14026), (390, 14068), (409, 14197), (425, 14287), (426, 14302), (427, 14305), (435, 14371), (437, 14386), (450, 14452), (455, 14506), (457, 14521), (462, 14602), (464, 14611), (475, 14704), (478, 14761), (480, 14794), (486, 14848), (489, 14869), (521, 15325), (522, 15352), (524, 15379), (527, 15394), (528, 15403), (539, 15490), (564, 15628), (567, 15646), (569, 15661),

Gene: MZKinsey_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for MZKinsey_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: MacKat_21 Start: 12093, Stop: 15926, Start Num: 13

Candidate Starts for MacKat_21:

(Start: 13 @12093 has 163 MA's), (22, 12162), (28, 12249), (55, 12426), (61, 12453), (78, 12537), (79, 12546), (89, 12618), (102, 12693), (120, 12777), (122, 12786), (126, 12807), (132, 12846), (143, 12924), (156, 13002), (169, 13092), (180, 13167), (193, 13260), (195, 13269), (196, 13281), (197, 13290), (238, 13527), (249, 13566), (258, 13599), (274, 13686), (280, 13710), (295, 13794), (305, 13878), (308, 13890), (312, 13911), (375, 14067), (387, 14148), (391, 14172), (396, 14196), (399, 14214), (403, 14235), (407, 14271), (412, 14322), (421, 14379), (431, 14457), (433, 14466), (447, 14544), (449, 14559), (454, 14601), (459, 14655), (481, 14895), (490, 14970), (499, 15081), (510, 15300), (512, 15312), (527, 15495), (528, 15504), (539, 15576), (547, 15606), (554, 15627), (570, 15747), (579, 15819), (580, 15837), (581, 15843),

Gene: MacnCheese_21 Start: 12433, Stop: 16590, Start Num: 13

Candidate Starts for MacnCheese_21:

(4, 12283), (Start: 13 @12433 has 163 MA's), (23, 12523), (25, 12529), (28, 12589), (51, 12751), (70, 12826), (78, 12877), (79, 12886), (88, 12946), (89, 12958), (94, 12979), (102, 13033), (122, 13126), (126, 13147), (132, 13186), (135, 13210), (143, 13264), (151, 13309), (156, 13342), (160, 13366), (186, 13540), (196, 13621), (223, 13798), (234, 13843), (238, 13867), (242, 13888), (257, 13936), (265, 13981), (270, 14005), (274, 14026), (286, 14104), (298, 14182), (306, 14242), (307, 14245), (310, 14260), (330, 14476), (335, 14524), (345, 14566), (348, 14584), (353, 14614), (355, 14635), (358, 14644), (362, 14674), (375, 14746), (381, 14776), (399, 14893), (403, 14914), (407, 14950), (409, 14968), (412, 15001), (419, 15046), (422, 15061), (431, 15142), (432, 15145), (445, 15214), (447, 15229), (448, 15235), (449, 15244), (459, 15340), (461, 15379), (479, 15556), (481, 15580), (490, 15655), (516, 16069), (519, 16099), (520, 16108), (521, 16111), (528, 16189), (531, 16207), (532, 16210), (563, 16384), (565, 16402), (574, 16447), (577, 16480), (581, 16516), (583, 16531), (584, 16543),

Gene: Maliketh_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Maliketh_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Marcoliusprime_17 Start: 10116, Stop: 13784, Start Num: 12

Candidate Starts for Marcoliusprime_17:

(Start: 12 @10116 has 10 MA's), (22, 10188), (65, 10422), (77, 10473), (89, 10566), (94, 10587), (102, 10641), (122, 10734), (126, 10755), (129, 10776), (130, 10782), (143, 10872), (150, 10914), (156, 10950), (163, 10983), (164, 10995), (167, 11019), (169, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (222, 11370), (223, 11382), (225, 11388), (231, 11406), (234, 11427), (238, 11451), (243, 11475), (245, 11484), (252, 11499), (264, 11511), (293, 11544), (300, 11592), (316, 11733), (317, 11739), (322, 11775), (327, 11802), (331, 11820), (363, 11946), (382, 12012), (393, 12066), (399, 12099), (403, 12120), (405, 12144), (410, 12174), (413, 12195), (454, 12417), (461, 12510), (471, 12588), (481, 12711), (493, 12816), (496, 12864), (515, 13251), (519, 13281), (520, 13290), (522, 13320), (549, 13485), (570, 13614), (581, 13707),

Gene: MarkPhew_21 Start: 10973, Stop: 15046, Start Num: 14

Candidate Starts for MarkPhew_21:

(2, 10757), (9, 10937), (Start: 14 @10973 has 38 MA's), (25, 11066), (36, 11198), (40, 11225), (41, 11234), (56, 11297), (64, 11336), (69, 11351), (79, 11414), (80, 11426), (87, 11465), (103, 11558), (105, 11570), (116, 11624), (137, 11741), (140, 11756), (146, 11792), (155, 11852), (156, 11855), (164, 11897), (176, 11966), (198, 12149), (210, 12200), (211, 12212), (223, 12302), (227, 12314), (229, 12320), (232, 12335), (239, 12374), (272, 12512), (274, 12524), (275, 12530), (279, 12545), (281, 12551), (330, 12869), (335, 12917), (339, 12932), (348, 12977), (353, 13007), (360, 13058), (364, 13079), (371, 13115), (375, 13139), (403, 13307), (407, 13343), (409, 13361), (412, 13394), (421, 13451), (431, 13529), (432, 13532), (447, 13616), (459, 13727), (461, 13766), (474, 13871), (481, 13967), (490, 14042), (510, 14390), (527, 14588), (570, 14876), (572, 14888), (579, 14960), (581, 14981),

Gene: Marmie_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Marmie_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Marshawn_22 Start: 11657, Stop: 15661, Start Num: 14

Candidate Starts for Marshawn_22:

(1, 11312), (2, 11444), (9, 11621), (Start: 14 @11657 has 38 MA's), (18, 11681), (25, 11750), (40, 11909), (41, 11918), (54, 11975), (78, 12089), (79, 12098), (80, 12110), (85, 12137), (87, 12149), (91, 12170), (104, 12251), (116, 12308), (123, 12338), (137, 12425), (140, 12440), (141, 12449), (146, 12476), (156, 12539), (157, 12548), (176, 12650), (185, 12725), (198, 12833), (206, 12866), (213, 12908), (215, 12926), (223, 12986), (227, 12998), (229, 13004), (232, 13019), (235, 13037), (236, 13040), (239, 13058), (242, 13073), (253, 13109), (263, 13154), (265, 13163), (268, 13178), (272, 13196), (274, 13208), (275, 13214), (279, 13229), (281, 13235), (307, 13322), (320, 13430), (330, 13553), (339, 13616), (348, 13661), (353, 13691), (360, 13742), (371, 13799), (375, 13823), (387, 13904), (396, 13952), (403, 13991), (407, 14027), (412, 14078), (431, 14219), (432, 14222), (447, 14306), (449, 14321), (454, 14363), (461, 14456), (481, 14657), (490, 14732), (496, 14810), (508, 15026), (510, 15083), (521, 15212), (522, 15239), (527, 15281), (539, 15371), (541, 15383), (559, 15422), (575, 15548), (578, 15572), (579, 15575), (581, 15596),

Gene: McMater_21 Start: 11128, Stop: 15282, Start Num: 14

Candidate Starts for McMater_21:

(9, 11086), (Start: 14 @11128 has 38 MA's), (25, 11221), (40, 11380), (45, 11407), (66, 11497), (67, 11500), (81, 11587), (98, 11695), (114, 11764), (117, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (146, 11959), (156, 12022), (164, 12064), (176, 12133), (183, 12196), (184, 12205), (198, 12319), (199, 12325), (208, 12361), (210, 12370), (211, 12382), (213, 12394), (215, 12412), (223, 12472), (227, 12484), (229, 12490), (232, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (254, 12598), (267, 12655), (268, 12664), (274, 12694), (279, 12715), (285, 12745), (290, 12778), (302, 12862), (305, 12892), (308, 12904), (320, 13006), (326, 13084), (330, 13129), (332, 13153), (342, 13207), (343, 13210), (346, 13225), (353, 13267), (357, 13294), (359, 13303), (360, 13318), (361, 13324), (362, 13327), (386, 13468), (391, 13504), (392, 13510), (396, 13528), (401, 13555), (403, 13567), (409, 13621), (412, 13654), (422, 13714), (431, 13795), (432, 13798), (447, 13882), (449, 13897), (461, 14032), (470, 14098), (481, 14233), (508, 14584), (527, 14839), (528, 14848), (534, 14914), (570, 15109), (574, 15130), (579, 15181), (580, 15199), (581, 15205), (585, 15244),

Gene: Mdavu_17 Start: 11315, Stop: 15448, Start Num: 13

Candidate Starts for Mdavu_17:

(10, 11276), (Start: 13 @11315 has 163 MA's), (22, 11384), (28, 11471), (35, 11549), (57, 11657), (61, 11678), (70, 11711), (89, 11843), (93, 11858), (94, 11864), (102, 11918), (108, 11948), (122, 12011), (126, 12032), (132, 12071), (143, 12149), (156, 12227), (160, 12251), (193, 12485), (209, 12566), (216, 12626), (223, 12683), (233, 12719), (238, 12752), (243, 12776), (261, 12842), (263, 12851), (274, 12911), (295, 13019), (300, 13064), (321, 13220), (329, 13331), (330, 13340), (331, 13352), (339, 13403), (343, 13421), (348, 13448), (353, 13478), (367, 13571), (375, 13610), (403, 13778), (409, 13832), (412, 13865), (420, 13910), (431, 13991), (432, 13994), (447, 14078), (448, 14084), (449, 14093), (454, 14135), (458, 14171), (459, 14189), (461, 14228), (468, 14288), (481, 14429), (488, 14489), (490, 14504), (512, 14846), (527, 15035), (528, 15044), (537, 15107), (581, 15383),

Gene: MeaningOfLife_21 Start: 12052, Stop: 15885, Start Num: 13

Candidate Starts for MeaningOfLife_21:

(Start: 13 @12052 has 163 MA's), (22, 12121), (23, 12142), (28, 12208), (55, 12385), (61, 12412), (77, 12484), (78, 12496), (79, 12505), (89, 12577), (102, 12652), (120, 12736), (122, 12745), (126, 12766), (132, 12805), (143, 12883), (156, 12961), (169, 13051), (180, 13126), (193, 13219), (195, 13228), (196, 13240), (197, 13249), (238, 13486), (249, 13525), (258, 13558), (274, 13645), (280, 13669), (295, 13753), (305, 13837), (308, 13849), (312, 13870), (375, 14026), (387, 14107), (396, 14155), (399, 14173), (403, 14194), (407, 14230), (412, 14281), (421, 14338), (431, 14416), (433, 14425), (447, 14503), (449, 14518), (454, 14560), (459, 14614), (481, 14854), (490, 14929), (499, 15040), (510, 15259), (512, 15271), (527, 15454), (528, 15463), (539, 15535), (547, 15565), (554, 15586), (570, 15706), (579, 15778), (580, 15796), (581, 15802),

Gene: Megsy_21 Start: 12050, Stop: 15886, Start Num: 13

Candidate Starts for Megsy_21:

(Start: 13 @12050 has 163 MA's), (22, 12119), (28, 12206), (55, 12386), (61, 12413), (79, 12506), (88, 12566), (89, 12578), (102, 12653), (113, 12704), (122, 12746), (126, 12767), (132, 12806), (143, 12884), (156, 12962), (160, 12986), (180, 13127), (193, 13220), (195, 13229), (196, 13241), (197, 13250), (238, 13487), (243, 13511), (249, 13526), (258, 13559), (274, 13646), (280, 13670), (295, 13754), (305, 13838), (308, 13850), (312, 13871), (320, 13952), (375, 14027), (387, 14108), (396, 14156), (399, 14174), (402, 14186), (403, 14195), (407, 14231), (412, 14282), (421, 14339), (431, 14417), (433, 14426), (447, 14504), (449, 14519), (459, 14615), (481, 14855), (490, 14930), (499, 15041), (510, 15260), (512, 15272), (519, 15374), (527, 15455), (528, 15464), (539, 15536), (547, 15566), (554, 15587), (570, 15707), (579, 15779), (580, 15797), (581, 15803),

Gene: Mercurio_17 Start: 11458, Stop: 15474, Start Num: 14

Candidate Starts for Mercurio_17:

(Start: 14 @11458 has 38 MA's), (41, 11725), (58, 11791), (62, 11815), (63, 11818), (69, 11842), (72, 11851), (73, 11854), (79, 11905), (84, 11932), (90, 11974), (97, 12019), (101, 12037), (103, 12040), (108, 12067), (118, 12115), (123, 12136), (133, 12193), (137, 12235), (145, 12280), (146, 12286), (156, 12349), (157, 12358), (159, 12370), (162, 12379), (176, 12460), (198, 12637), (205, 12667), (206, 12670), (210, 12688), (211, 12700), (215, 12730), (220, 12757), (223, 12790), (229, 12808), (232, 12823), (236, 12844), (242, 12877), (251, 12904), (261, 12949), (267, 12973), (270, 12991), (274, 13012), (292, 13108), (299, 13153), (302, 13180), (315, 13309), (329, 13438), (348, 13555), (352, 13582), (358, 13615), (370, 13690), (371, 13693), (385, 13777), (390, 13810), (401, 13873), (429, 14098), (435, 14122), (437, 14137), (442, 14161), (457, 14272), (462, 14353), (464, 14362), (475, 14455), (478, 14512), (480, 14545), (483, 14560), (525, 15139), (527, 15151), (529, 15166), (539, 15238), (551, 15289), (567, 15397),

Gene: Milly_17 Start: 10116, Stop: 13784, Start Num: 12

Candidate Starts for Milly_17:

(Start: 12 @10116 has 10 MA's), (22, 10188), (65, 10422), (77, 10473), (89, 10566), (94, 10587), (102, 10641), (122, 10734), (126, 10755), (129, 10776), (130, 10782), (143, 10872), (150, 10914), (156, 10950), (163, 10983), (164, 10995), (167, 11019), (169, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (222, 11370), (223, 11382), (225, 11388), (231, 11406), (234, 11427), (238, 11451), (243, 11475), (245, 11484), (252, 11499), (264, 11511), (293, 11544), (300, 11592), (316, 11733), (317, 11739), (322, 11775), (327, 11802), (331, 11820), (344, 11850), (363, 11946), (372, 11979), (382, 12012), (393, 12066), (399, 12099), (403, 12120), (405, 12144), (410, 12174), (413, 12195), (454, 12417), (461, 12510), (471, 12588), (481, 12711), (493, 12816), (496, 12864), (519, 13281), (520, 13290), (522, 13320), (549, 13485), (570, 13614), (581, 13707),

Gene: Mowgli_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Mowgli_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Mufasa_17 Start: 10138, Stop: 13812, Start Num: 12

Candidate Starts for Mufasa_17:

(Start: 12 @10138 has 10 MA's), (22, 10210), (29, 10309), (65, 10444), (77, 10495), (89, 10588), (102, 10663), (122, 10756), (126, 10777), (129, 10798), (130, 10804), (143, 10894), (150, 10936), (156, 10972), (163, 11005), (164, 11017), (167, 11041), (169, 11062), (175, 11086), (176, 11092), (179, 11128), (180, 11137), (186, 11170), (188, 11182), (190, 11209), (222, 11392), (223, 11404), (225, 11410), (234, 11449), (238, 11473), (245, 11506), (262, 11524), (264, 11533), (293, 11566), (316, 11755), (317, 11761), (322, 11797), (327, 11824), (331, 11842), (338, 11860), (344, 11872), (363, 11968), (372, 12001), (382, 12034), (393, 12088), (399, 12121), (403, 12142), (405, 12166), (410, 12196), (413, 12217), (447, 12385), (450, 12403), (454, 12439), (461, 12532), (471, 12610), (481, 12733), (496, 12886), (515, 13273), (519, 13303), (520, 13312), (522, 13342), (530, 13402), (549, 13510), (570, 13642), (581, 13735),

Gene: Murucutumbu_21 Start: 12036, Stop: 15869, Start Num: 13

Candidate Starts for Murucutumbu_21:

(Start: 13 @12036 has 163 MA's), (22, 12105), (28, 12192), (55, 12372), (61, 12399), (78, 12483), (79, 12492), (88, 12552), (89, 12564), (102, 12639), (111, 12681), (120, 12723), (122, 12732), (126, 12753), (132, 12792), (143, 12870), (156, 12948), (180, 13113), (193, 13206), (196, 13227), (197, 13236), (238, 13473), (243, 13497), (249, 13512), (258, 13545), (274, 13632), (295, 13740), (305, 13824), (308, 13836), (312, 13857), (320, 13938), (375, 14013), (387, 14094), (389, 14103), (396, 14142), (399, 14160), (403, 14181), (407, 14217), (412, 14268), (421, 14325), (431, 14403), (433, 14412), (447, 14490), (449, 14505), (454, 14547), (459, 14601), (481, 14841), (490, 14916), (499, 15027), (510, 15246), (519, 15360), (527, 15441), (528, 15450), (539, 15522), (547, 15552), (554, 15573), (570, 15690), (579, 15762), (581, 15786),

Gene: Mynx_21 Start: 12099, Stop: 15932, Start Num: 13

Candidate Starts for Mynx_21:

(Start: 13 @12099 has 163 MA's), (22, 12168), (28, 12255), (55, 12432), (61, 12459), (77, 12531), (78, 12543), (79, 12552), (89, 12624), (102, 12699), (120, 12783), (122, 12792), (126, 12813), (132, 12852), (143, 12930), (156, 13008), (169, 13098), (180, 13173), (193, 13266), (195, 13275), (196, 13287), (197, 13296), (238, 13533), (249, 13572), (258, 13605), (274, 13692), (280, 13716), (295, 13800), (305, 13884), (308, 13896), (312, 13917), (375, 14073), (387, 14154), (396, 14202), (399, 14220), (403, 14241), (407, 14277), (412, 14328), (421, 14385), (431, 14463), (433, 14472), (447, 14550), (449, 14565), (454, 14607), (459, 14661), (481, 14901), (490, 14976), (499, 15087), (510, 15306), (512, 15318), (527, 15501), (528, 15510), (539, 15582), (547, 15612), (554, 15633), (570, 15753), (579, 15825), (580, 15843), (581, 15849),

Gene: Neoh_16 Start: 11456, Stop: 15469, Start Num: 13

Candidate Starts for Neoh_16:

(Start: 13 @11456 has 163 MA's), (30, 11657), (51, 11771), (61, 11813), (69, 11843), (89, 11978), (92, 11990), (94, 11999), (129, 12188), (132, 12206), (133, 12209), (135, 12230), (136, 12242), (148, 12314), (156, 12362), (177, 12494), (179, 12518), (190, 12599), (212, 12722), (222, 12806), (231, 12842), (238, 12887), (239, 12893), (265, 13001), (270, 13025), (274, 13046), (311, 13265), (325, 13415), (333, 13502), (352, 13610), (375, 13745), (392, 13856), (396, 13874), (402, 13904), (429, 14126), (435, 14150), (437, 14165), (441, 14186), (447, 14213), (451, 14240), (457, 14300), (464, 14390), (467, 14423), (475, 14486), (478, 14543), (480, 14576), (482, 14585), (521, 15089), (522, 15116), (525, 15146), (527, 15158), (528, 15167), (539, 15236), (557, 15317), (564, 15377), (567, 15395), (568, 15404),

Gene: Nibb_20 Start: 11122, Stop: 15189, Start Num: 14

Candidate Starts for Nibb_20:

(9, 11086), (Start: 14 @11122 has 38 MA's), (36, 11347), (40, 11374), (41, 11383), (64, 11485), (87, 11614), (103, 11707), (105, 11719), (116, 11773), (123, 11803), (137, 11890), (140, 11905), (155, 12001), (156, 12004), (164, 12046), (176, 12115), (198, 12298), (210, 12349), (211, 12361), (215, 12391), (223, 12451), (227, 12463), (229, 12469), (232, 12484), (235, 12502), (236, 12505), (270, 12652), (272, 12661), (274, 12673), (275, 12679), (279, 12694), (281, 12700), (306, 12784), (313, 12853), (330, 13018), (335, 13066), (348, 13126), (353, 13156), (360, 13207), (364, 13228), (371, 13264), (381, 13318), (403, 13456), (409, 13510), (412, 13543), (417, 13561), (421, 13600), (431, 13678), (432, 13681), (447, 13765), (454, 13822), (458, 13858), (459, 13876), (461, 13915), (481, 14116), (485, 14158), (490, 14191), (510, 14533), (527, 14731), (570, 15019), (572, 15031), (579, 15103), (581, 15124),

Gene: Nikao_17 Start: 11327, Stop: 15460, Start Num: 13

Candidate Starts for Nikao_17:

(10, 11288), (Start: 13 @11327 has 163 MA's), (22, 11396), (28, 11483), (35, 11561), (57, 11669), (61, 11690), (70, 11723), (89, 11855), (93, 11870), (94, 11876), (102, 11930), (108, 11960), (122, 12023), (126, 12044), (132, 12083), (143, 12161), (156, 12239), (160, 12263), (193, 12497), (209, 12578), (216, 12638), (223, 12695), (233, 12731), (238, 12764), (243, 12788), (261, 12854), (263, 12863),

(274, 12923), (295, 13031), (300, 13076), (321, 13232), (329, 13343), (330, 13352), (331, 13364), (339, 13415), (343, 13433), (348, 13460), (353, 13490), (367, 13583), (375, 13622), (380, 13649), (403, 13790), (409, 13844), (412, 13877), (420, 13922), (431, 14003), (432, 14006), (447, 14090), (448, 14096), (449, 14105), (454, 14147), (458, 14183), (459, 14201), (461, 14240), (468, 14300), (481, 14441), (488, 14501), (490, 14516), (512, 14858), (527, 15047), (528, 15056), (537, 15119), (581, 15395),

Gene: Niklas_21 Start: 11128, Stop: 15282, Start Num: 14

Candidate Starts for Niklas_21:

(9, 11086), (Start: 14 @11128 has 38 MA's), (25, 11221), (40, 11380), (45, 11407), (66, 11497), (67, 11500), (81, 11587), (98, 11695), (114, 11764), (117, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (146, 11959), (156, 12022), (164, 12064), (176, 12133), (183, 12196), (184, 12205), (198, 12319), (199, 12325), (208, 12361), (210, 12370), (211, 12382), (213, 12394), (215, 12412), (223, 12472), (227, 12484), (229, 12490), (232, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (254, 12598), (267, 12655), (268, 12664), (274, 12694), (279, 12715), (285, 12745), (290, 12778), (302, 12862), (305, 12892), (308, 12904), (320, 13006), (326, 13084), (330, 13129), (332, 13153), (342, 13207), (343, 13210), (346, 13225), (353, 13267), (357, 13294), (359, 13303), (360, 13318), (361, 13324), (362, 13327), (386, 13468), (391, 13504), (392, 13510), (396, 13528), (401, 13555), (403, 13567), (409, 13621), (412, 13654), (422, 13714), (431, 13795), (432, 13798), (447, 13882), (449, 13897), (461, 14032), (470, 14098), (481, 14233), (508, 14584), (527, 14839), (528, 14848), (534, 14914), (570, 15109), (574, 15130), (579, 15181), (580, 15199), (581, 15205), (585, 15244),

Gene: NoShow_16 Start: 10206, Stop: 14354, Start Num: 5

Candidate Starts for NoShow_16:

(Start: 5 @10206 has 1 MA's), (6, 10218), (11, 10323), (16, 10344), (38, 10602), (44, 10635), (45, 10638), (53, 10671), (66, 10728), (71, 10743), (72, 10746), (79, 10800), (82, 10821), (85, 10839), (87, 10851), (91, 10872), (93, 10881), (96, 10911), (119, 11013), (121, 11022), (127, 11055), (138, 11121), (140, 11133), (141, 11142), (149, 11187), (154, 11220), (156, 11232), (161, 11259), (176, 11343), (185, 11418), (189, 11457), (196, 11502), (198, 11526), (208, 11568), (209, 11571), (210, 11577), (211, 11589), (219, 11634), (227, 11691), (229, 11697), (232, 11712), (235, 11730), (242, 11766), (248, 11784), (253, 11802), (260, 11829), (261, 11838), (270, 11880), (271, 11886), (279, 11922), (281, 11928), (287, 11961), (303, 11985), (305, 12009), (328, 12213), (330, 12246), (331, 12258), (335, 12294), (351, 12378), (353, 12384), (368, 12477), (376, 12519), (377, 12531), (378, 12540), (381, 12564), (385, 12597), (395, 12675), (400, 12705), (402, 12717), (403, 12726), (404, 12747), (410, 12801), (416, 12846), (425, 12921), (434, 12996), (439, 13032), (446, 13059), (447, 13068), (449, 13080), (452, 13116), (465, 13257), (466, 13266), (472, 13311), (476, 13344), (478, 13398), (480, 13431), (484, 13470), (487, 13491), (492, 13518), (498, 13599), (503, 13680), (504, 13692), (518, 13938), (522, 13983), (527, 14025), (531, 14052), (538, 14106), (542, 14127), (547, 14142), (548, 14148), (557, 14202), (558, 14208), (562, 14244), (570, 14301), (571, 14310),

Gene: Nutello_17 Start: 11327, Stop: 15460, Start Num: 13

Candidate Starts for Nutello_17:

(10, 11288), (Start: 13 @11327 has 163 MA's), (22, 11396), (28, 11483), (35, 11561), (57, 11669), (61, 11690), (70, 11723), (89, 11855), (93, 11870), (94, 11876), (102, 11930), (108, 11960), (122, 12023), (126, 12044), (132, 12083), (143, 12161), (156, 12239), (160, 12263), (193, 12497), (209, 12578), (216, 12638), (223, 12695), (233, 12731), (238, 12764), (243, 12788), (261, 12854), (263, 12863), (274, 12923), (295, 13031), (300, 13076), (321, 13232), (329, 13343), (330, 13352), (331, 13364), (339, 13415), (343, 13433), (348, 13460), (353, 13490), (367, 13583), (375, 13622), (403, 13790), (409, 13844), (412, 13877), (420, 13922), (431, 14003), (432, 14006), (447, 14090), (448, 14096), (449, 14105), (454, 14147), (458, 14183), (459, 14201), (461, 14240), (468, 14300), (481, 14441), (488, 14501), (490, 14516), (512, 14858), (527, 15047), (528, 15056), (537, 15119), (581, 15395),

Gene: OctaviousRex_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for OctaviousRex_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Olga_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Olga_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Oscar_20 Start: 11083, Stop: 15156, Start Num: 14

Candidate Starts for Oscar_20:

(Start: 14 @11083 has 38 MA's), (25, 11176), (36, 11308), (64, 11446), (79, 11524), (80, 11536), (81, 11542), (87, 11575), (94, 11611), (103, 11668), (105, 11680), (116, 11734), (123, 11764), (137, 11851), (140, 11866), (146, 11902), (162, 11995), (176, 12076), (198, 12259), (200, 12268), (210, 12310), (215, 12352), (223, 12412), (227, 12424), (229, 12430), (232, 12445), (236, 12466), (242, 12499), (272, 12622), (274, 12634), (275, 12640), (279, 12655), (281, 12661), (306, 12745), (314, 12826), (330, 12979), (346, 13075), (348, 13087), (353, 13117), (360, 13168), (364, 13189), (369, 13219), (371, 13225), (375, 13249), (385, 13309), (392, 13360), (401, 13405), (403, 13417), (409, 13471), (412, 13504), (421, 13561), (431, 13639), (432, 13642), (447, 13726), (451, 13753), (454, 13783), (459, 13837), (461, 13876), (481, 14077), (485, 14119), (490, 14152), (491, 14158), (508, 14437), (510, 14494), (527, 14695), (541, 14809), (570, 14986), (579, 15070), (581, 15091),

Gene: Padfoot_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Padfoot_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Padpat_21 Start: 12076, Stop: 15909, Start Num: 13

Candidate Starts for Padpat_21:

(Start: 13 @12076 has 163 MA's), (22, 12145), (28, 12232), (35, 12307), (55, 12409), (61, 12436), (77, 12508), (78, 12520), (79, 12529), (89, 12601), (102, 12676), (120, 12760), (122, 12769), (126, 12790),

(132, 12829), (143, 12907), (156, 12985), (169, 13075), (180, 13150), (193, 13243), (195, 13252), (196, 13264), (197, 13273), (238, 13510), (249, 13549), (258, 13582), (274, 13669), (280, 13693), (295, 13777), (305, 13861), (308, 13873), (312, 13894), (375, 14050), (387, 14131), (396, 14179), (399, 14197), (403, 14218), (407, 14254), (412, 14305), (421, 14362), (431, 14440), (433, 14449), (447, 14527), (449, 14542), (454, 14584), (459, 14638), (481, 14878), (490, 14953), (499, 15064), (510, 15283), (512, 15295), (527, 15478), (528, 15487), (539, 15559), (547, 15589), (554, 15610), (570, 15730), (579, 15802), (580, 15820), (581, 15826),

Gene: Paito_16 Start: 11582, Stop: 15610, Start Num: 13

Candidate Starts for Paito_16:

(Start: 13 @11582 has 163 MA's), (30, 11783), (49, 11885), (51, 11897), (57, 11918), (64, 11954), (69, 11969), (77, 12011), (89, 12104), (94, 12125), (120, 12263), (122, 12272), (129, 12314), (132, 12332), (133, 12335), (135, 12356), (136, 12368), (148, 12440), (156, 12488), (179, 12644), (212, 12848), (214, 12869), (221, 12920), (232, 12977), (238, 13013), (258, 13085), (262, 13106), (269, 13145), (274, 13172), (284, 13220), (288, 13241), (295, 13280), (308, 13376), (311, 13391), (324, 13538), (325, 13541), (335, 13649), (386, 13940), (392, 13982), (396, 14000), (402, 14030), (403, 14039), (428, 14246), (429, 14252), (435, 14276), (437, 14291), (441, 14312), (442, 14315), (451, 14366), (457, 14426), (462, 14507), (464, 14516), (467, 14549), (469, 14564), (475, 14612), (478, 14669), (480, 14702), (483, 14717), (490, 14780), (521, 15224), (522, 15251), (527, 15293), (528, 15302), (545, 15401), (557, 15458), (564, 15518), (567, 15536), (568, 15545),

Gene: Peanam_21 Start: 11128, Stop: 15282, Start Num: 14

Candidate Starts for Peanam_21:

(9, 11086), (Start: 14 @11128 has 38 MA's), (25, 11221), (40, 11380), (45, 11407), (66, 11497), (67, 11500), (81, 11587), (98, 11695), (114, 11764), (117, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (146, 11959), (156, 12022), (164, 12064), (176, 12133), (183, 12196), (184, 12205), (198, 12319), (199, 12325), (208, 12361), (210, 12370), (211, 12382), (213, 12394), (215, 12412), (223, 12472), (227, 12484), (229, 12490), (232, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (254, 12598), (267, 12655), (268, 12664), (274, 12694), (279, 12715), (285, 12745), (290, 12778), (302, 12862), (305, 12892), (308, 12904), (320, 13006), (326, 13084), (330, 13129), (332, 13153), (342, 13207), (343, 13210), (346, 13225), (353, 13267), (357, 13294), (359, 13303), (360, 13318), (361, 13324), (362, 13327), (386, 13468), (391, 13504), (392, 13510), (396, 13528), (401, 13555), (403, 13567), (409, 13621), (412, 13654), (422, 13714), (431, 13795), (432, 13798), (447, 13882), (449, 13897), (461, 14032), (470, 14098), (481, 14233), (508, 14584), (527, 14839), (528, 14848), (534, 14914), (570, 15109), (574, 15130), (579, 15181), (580, 15199), (581, 15205), (585, 15244),

Gene: Peeb_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Peeb_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Peel_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Peel_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830),

(132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Periodt_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Periodt_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Pharb_20 Start: 12014, Stop: 16198, Start Num: 13

Candidate Starts for Pharb_20:

(8, 11966), (Start: 13 @12014 has 163 MA's), (22, 12083), (23, 12104), (25, 12110), (28, 12170), (57, 12353), (59, 12365), (61, 12374), (78, 12458), (88, 12527), (89, 12539), (94, 12560), (102, 12614), (108, 12644), (122, 12707), (126, 12728), (132, 12767), (143, 12845), (156, 12923), (160, 12947), (186, 13121), (191, 13169), (193, 13181), (196, 13202), (197, 13211), (218, 13331), (230, 13400), (233, 13415), (238, 13448), (242, 13469), (244, 13478), (255, 13508), (258, 13520), (265, 13562), (266, 13565), (267, 13568), (274, 13607), (286, 13685), (298, 13763), (303, 13796), (307, 13826), (314, 13904), (324, 13994), (328, 14024), (330, 14057), (345, 14147), (353, 14195), (375, 14327), (381, 14357), (392, 14438), (399, 14474), (407, 14531), (409, 14549), (412, 14582), (422, 14642), (431, 14723), (438, 14762), (445, 14795), (447, 14810), (448, 14816), (449, 14825), (454, 14867), (459, 14921), (461, 14960), (471, 15038), (481, 15161), (490, 15236), (502, 15425), (516, 15665), (519, 15695), (521, 15707), (528, 15785), (555, 15914), (565, 16001), (566, 16004), (572, 16037), (577, 16082), (581, 16118), (583, 16133), (584, 16145), (587, 16181),

Gene: PhelpsODU_20 Start: 11123, Stop: 15124, Start Num: 14

Candidate Starts for PhelpsODU_20:

(Start: 14 @11123 has 38 MA's), (25, 11216), (31, 11321), (40, 11375), (43, 11393), (48, 11411), (53, 11435), (54, 11441), (60, 11468), (62, 11474), (64, 11486), (75, 11519), (87, 11615), (90, 11633), (91, 11636), (114, 11750), (116, 11765), (137, 11882), (153, 11978), (159, 12017), (164, 12038), (165, 12047), (176, 12107), (198, 12290), (199, 12296), (200, 12299), (211, 12353), (215, 12383), (223, 12443), (227, 12455), (229, 12461), (232, 12476), (236, 12497), (239, 12515), (272, 12653), (274, 12665), (279, 12686), (287, 12725), (307, 12779), (308, 12785), (320, 12887), (324, 12947), (330, 13010), (343, 13091), (346, 13106), (347, 13109), (353, 13148), (359, 13184), (360, 13199), (361, 13205), (366, 13232), (371, 13256), (383, 13331), (392, 13391), (403, 13448), (407, 13484), (412, 13535), (431, 13676), (432, 13679), (447, 13763), (451, 13790), (459, 13874), (461, 13913), (481, 14114), (490, 14189), (506, 14408), (511, 14522), (519, 14624), (520, 14633), (527, 14705), (539, 14789), (547, 14819), (553, 14840), (570, 14957), (579, 15032), (583, 15071), (584, 15083),

Gene: Phish_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Phish_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148,

12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Phloodle_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Phloodle_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Phrank_20 Start: 11071, Stop: 15072, Start Num: 14

Candidate Starts for Phrank_20:

(Start: 14 @11071 has 38 MA's), (25, 11164), (31, 11269), (36, 11296), (40, 11323), (43, 11341), (48, 11359), (53, 11383), (54, 11389), (60, 11416), (62, 11422), (72, 11458), (75, 11467), (77, 11491), (87, 11563), (90, 11581), (91, 11584), (116, 11713), (137, 11830), (153, 11926), (159, 11965), (165, 11995), (176, 12055), (198, 12238), (199, 12244), (200, 12247), (211, 12301), (215, 12331), (223, 12391), (227, 12403), (229, 12409), (232, 12424), (236, 12445), (239, 12463), (272, 12601), (274, 12613), (279, 12634), (287, 12673), (307, 12727), (308, 12733), (324, 12895), (330, 12958), (343, 13039), (346, 13054), (353, 13096), (360, 13147), (364, 13168), (369, 13198), (371, 13204), (375, 13228), (383, 13279), (392, 13339), (403, 13396), (407, 13432), (409, 13450), (412, 13483), (431, 13624), (432, 13627), (447, 13711), (451, 13738), (459, 13822), (481, 14062), (490, 14137), (511, 14470), (519, 14572), (520, 14581), (527, 14653), (539, 14737), (547, 14767), (553, 14788), (570, 14905), (579, 14980), (583, 15019), (584, 15031),

Gene: Phreak_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Phreak_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Piatt_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Piatt_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171),

(396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: PinkYoshi_16 Start: 11455, Stop: 15468, Start Num: 13

Candidate Starts for PinkYoshi_16:

(Start: 13 @11455 has 163 MA's), (30, 11656), (51, 11770), (61, 11812), (69, 11842), (89, 11977), (92, 11989), (94, 11998), (129, 12187), (132, 12205), (133, 12208), (135, 12229), (136, 12241), (148, 12313), (156, 12361), (177, 12493), (179, 12517), (190, 12598), (212, 12721), (222, 12805), (231, 12841), (238, 12886), (239, 12892), (265, 13000), (270, 13024), (274, 13045), (311, 13264), (325, 13414), (333, 13501), (352, 13609), (375, 13744), (392, 13855), (396, 13873), (402, 13903), (429, 14125), (435, 14149), (437, 14164), (441, 14185), (447, 14212), (451, 14239), (457, 14299), (464, 14389), (467, 14422), (475, 14485), (478, 14542), (480, 14575), (482, 14584), (521, 15088), (522, 15115), (525, 15145), (527, 15157), (528, 15166), (539, 15235), (557, 15316), (564, 15376), (567, 15394), (568, 15403),

Gene: Pinnie_17 Start: 12158, Stop: 16180, Start Num: 14

Candidate Starts for Pinnie_17:

(Start: 14 @12158 has 38 MA's), (20, 12203), (30, 12359), (31, 12362), (43, 12434), (48, 12452), (50, 12464), (60, 12509), (64, 12527), (81, 12623), (83, 12629), (85, 12644), (87, 12656), (90, 12674), (96, 12716), (97, 12719), (106, 12755), (108, 12767), (114, 12791), (115, 12797), (119, 12818), (133, 12893), (137, 12935), (140, 12950), (146, 12986), (148, 13001), (156, 13049), (157, 13058), (176, 13160), (194, 13301), (198, 13343), (205, 13373), (207, 13379), (208, 13385), (215, 13436), (227, 13508), (229, 13514), (232, 13529), (235, 13547), (236, 13550), (251, 13610), (261, 13655), (270, 13697), (274, 13718), (280, 13742), (282, 13754), (283, 13757), (292, 13814), (302, 13886), (308, 13928), (320, 14030), (325, 14093), (336, 14207), (341, 14228), (352, 14288), (360, 14342), (361, 14348), (371, 14399), (383, 14474), (390, 14516), (401, 14579), (425, 14744), (435, 14828), (437, 14843), (440, 14861), (442, 14867), (450, 14909), (451, 14918), (455, 14963), (457, 14978), (462, 15059), (464, 15068), (475, 15161), (478, 15218), (480, 15251), (486, 15305), (489, 15326), (521, 15785), (522, 15812), (524, 15839), (527, 15854), (528, 15863), (539, 15950), (564, 16088), (567, 16106), (573, 16145),

Gene: Pisa1_20 Start: 11833, Stop: 15987, Start Num: 13

Candidate Starts for Pisa1_20:

(Start: 13 @11833 has 163 MA's), (22, 11902), (28, 11989), (55, 12169), (57, 12175), (61, 12196), (70, 12229), (78, 12280), (79, 12289), (88, 12349), (89, 12361), (102, 12436), (113, 12487), (122, 12529), (126, 12550), (132, 12589), (143, 12667), (156, 12745), (168, 12823), (171, 12844), (173, 12850), (180, 12910), (193, 13003), (196, 13024), (197, 13033), (209, 13084), (217, 13147), (233, 13237), (238, 13270), (259, 13348), (261, 13360), (263, 13369), (265, 13384), (266, 13387), (274, 13429), (291, 13516), (295, 13537), (305, 13621), (308, 13633), (320, 13735), (321, 13738), (330, 13858), (335, 13906), (337, 13915), (343, 13939), (347, 13957), (348, 13966), (353, 13996), (355, 14017), (361, 14053), (375, 14128), (386, 14197), (403, 14296), (407, 14332), (409, 14350), (412, 14383), (431, 14518), (433, 14527), (447, 14605), (449, 14620), (454, 14662), (459, 14716), (481, 14956), (490, 15031), (499, 15142), (501, 15184), (519, 15475), (527, 15556), (528, 15565), (539, 15637), (541, 15649), (547, 15667), (554, 15688), (570, 15808), (579, 15880), (580, 15898), (581, 15904),

Gene: Pisa4_20 Start: 11833, Stop: 15987, Start Num: 13

Candidate Starts for Pisa4_20:

(Start: 13 @11833 has 163 MA's), (22, 11902), (28, 11989), (55, 12169), (57, 12175), (61, 12196), (70, 12229), (78, 12280), (79, 12289), (88, 12349), (89, 12361), (102, 12436), (113, 12487), (122, 12529), (126, 12550), (132, 12589), (143, 12667), (156, 12745), (168, 12823), (171, 12844), (173, 12850), (180, 12910), (193, 13003), (196, 13024), (197, 13033), (209, 13084), (217, 13147), (233, 13237),

(238, 13270), (259, 13348), (261, 13360), (263, 13369), (265, 13384), (266, 13387), (274, 13429), (291, 13516), (295, 13537), (305, 13621), (308, 13633), (320, 13735), (321, 13738), (330, 13858), (335, 13906), (337, 13915), (343, 13939), (347, 13957), (348, 13966), (353, 13996), (355, 14017), (361, 14053), (375, 14128), (386, 14197), (403, 14296), (407, 14332), (409, 14350), (412, 14383), (431, 14518), (433, 14527), (447, 14605), (449, 14620), (454, 14662), (459, 14716), (481, 14956), (490, 15031), (499, 15142), (501, 15184), (519, 15475), (527, 15556), (528, 15565), (539, 15637), (541, 15649), (547, 15667), (554, 15688), (570, 15808), (579, 15880), (580, 15898), (581, 15904),

Gene: Pixie_20 Start: 11949, Stop: 16127, Start Num: 13

Candidate Starts for Pixie_20:

(Start: 13 @11949 has 163 MA's), (22, 12018), (23, 12039), (25, 12045), (28, 12105), (46, 12243), (57, 12288), (61, 12309), (88, 12462), (89, 12474), (94, 12495), (102, 12549), (108, 12579), (113, 12600), (120, 12633), (122, 12642), (126, 12663), (132, 12702), (143, 12780), (150, 12822), (156, 12858), (160, 12882), (186, 13056), (190, 13095), (193, 13116), (196, 13137), (197, 13146), (223, 13314), (230, 13335), (234, 13359), (238, 13383), (242, 13404), (250, 13422), (258, 13455), (265, 13497), (266, 13500), (267, 13503), (274, 13542), (276, 13551), (286, 13620), (303, 13731), (307, 13761), (328, 13959), (330, 13992), (345, 14082), (348, 14100), (353, 14130), (357, 14157), (381, 14292), (392, 14373), (399, 14409), (407, 14466), (409, 14484), (411, 14505), (412, 14517), (422, 14577), (431, 14658), (438, 14697), (445, 14730), (447, 14745), (448, 14751), (449, 14760), (454, 14802), (461, 14895), (471, 14973), (481, 15096), (490, 15171), (519, 15636), (521, 15648), (527, 15717), (528, 15726), (563, 15918), (565, 15936), (572, 15972), (574, 15981), (580, 16047), (581, 16053), (583, 16068), (584, 16080),

Gene: Plagueis_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Plagueis_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Pokerus_20 Start: 12033, Stop: 15866, Start Num: 13

Candidate Starts for Pokerus_20:

(Start: 13 @12033 has 163 MA's), (22, 12102), (28, 12189), (55, 12366), (61, 12393), (77, 12465), (78, 12477), (79, 12486), (89, 12558), (102, 12633), (120, 12717), (122, 12726), (126, 12747), (132, 12786), (143, 12864), (156, 12942), (169, 13032), (180, 13107), (193, 13200), (195, 13209), (196, 13221), (197, 13230), (238, 13467), (249, 13506), (258, 13539), (274, 13626), (280, 13650), (295, 13734), (305, 13818), (308, 13830), (312, 13851), (375, 14007), (387, 14088), (396, 14136), (399, 14154), (403, 14175), (407, 14211), (412, 14262), (421, 14319), (431, 14397), (433, 14406), (447, 14484), (449, 14499), (454, 14541), (459, 14595), (481, 14835), (490, 14910), (499, 15021), (510, 15240), (512, 15252), (527, 15435), (528, 15444), (539, 15516), (547, 15546), (554, 15567), (570, 15687), (579, 15759), (580, 15777), (581, 15783),

Gene: Prithvi_21 Start: 12047, Stop: 15883, Start Num: 13

Candidate Starts for Prithvi_21:

(Start: 13 @12047 has 163 MA's), (22, 12116), (28, 12203), (55, 12383), (61, 12410), (79, 12503), (88, 12563), (89, 12575), (102, 12650), (113, 12701), (122, 12743), (126, 12764), (132, 12803), (143, 12881), (156, 12959), (160, 12983), (180, 13124), (193, 13217), (195, 13226), (196, 13238), (197, 13247), (238, 13484), (243, 13508), (249, 13523), (258, 13556), (274, 13643), (280, 13667), (295,

13751), (305, 13835), (308, 13847), (312, 13868), (320, 13949), (375, 14024), (387, 14105), (396, 14153), (399, 14171), (402, 14183), (403, 14192), (407, 14228), (412, 14279), (421, 14336), (431, 14414), (433, 14423), (447, 14501), (449, 14516), (454, 14558), (459, 14612), (481, 14852), (490, 14927), (499, 15038), (510, 15257), (512, 15269), (519, 15371), (527, 15452), (528, 15461), (539, 15533), (547, 15563), (554, 15584), (570, 15704), (579, 15776), (580, 15794), (581, 15800),

Gene: QuincyRose_20 Start: 12096, Stop: 15929, Start Num: 13

Candidate Starts for QuincyRose_20:

(Start: 13 @12096 has 163 MA's), (22, 12165), (28, 12252), (55, 12429), (61, 12456), (78, 12540), (79, 12549), (89, 12621), (102, 12696), (120, 12780), (122, 12789), (126, 12810), (132, 12849), (143, 12927), (156, 13005), (169, 13095), (180, 13170), (193, 13263), (196, 13284), (197, 13293), (221, 13437), (238, 13530), (249, 13569), (258, 13602), (274, 13689), (280, 13713), (295, 13797), (305, 13881), (308, 13893), (312, 13914), (375, 14070), (387, 14151), (396, 14199), (399, 14217), (403, 14238), (407, 14274), (412, 14325), (421, 14382), (431, 14460), (433, 14469), (447, 14547), (454, 14604), (459, 14658), (481, 14898), (490, 14973), (499, 15084), (510, 15303), (512, 15315), (527, 15498), (528, 15507), (539, 15579), (547, 15609), (554, 15630), (570, 15750), (579, 15822), (580, 15840), (581, 15846),

Gene: Rabbs_16 Start: 11454, Stop: 15479, Start Num: 13

Candidate Starts for Rabbs_16:

(Start: 13 @11454 has 163 MA's), (18, 11478), (30, 11655), (51, 11769), (61, 11811), (66, 11832), (69, 11841), (89, 11976), (94, 11997), (122, 12144), (129, 12186), (132, 12204), (133, 12207), (135, 12228), (136, 12240), (156, 12360), (166, 12426), (177, 12492), (179, 12516), (190, 12597), (212, 12720), (214, 12741), (228, 12831), (231, 12840), (239, 12891), (250, 12924), (254, 12942), (265, 12999), (274, 13044), (291, 13131), (295, 13152), (308, 13248), (311, 13263), (321, 13353), (324, 13410), (325, 13413), (347, 13572), (348, 13581), (352, 13608), (375, 13743), (396, 13872), (402, 13902), (429, 14124), (435, 14148), (437, 14163), (441, 14184), (451, 14238), (457, 14298), (464, 14388), (467, 14421), (469, 14436), (475, 14484), (478, 14541), (480, 14574), (514, 15006), (521, 15096), (522, 15123), (527, 15165), (528, 15174), (539, 15243), (545, 15270), (557, 15327), (564, 15387), (567, 15405), (568, 15414),

Gene: Ramen_21 Start: 12079, Stop: 15915, Start Num: 13

Candidate Starts for Ramen_21:

(Start: 13 @12079 has 163 MA's), (22, 12148), (28, 12235), (55, 12412), (61, 12439), (77, 12511), (78, 12523), (79, 12532), (89, 12604), (102, 12679), (120, 12763), (122, 12772), (126, 12793), (132, 12832), (143, 12910), (156, 12988), (169, 13078), (180, 13153), (193, 13246), (195, 13255), (196, 13267), (197, 13276), (243, 13537), (249, 13552), (258, 13585), (274, 13672), (280, 13696), (295, 13780), (305, 13864), (308, 13876), (312, 13897), (375, 14053), (387, 14134), (396, 14182), (399, 14200), (403, 14221), (407, 14257), (412, 14308), (421, 14365), (431, 14443), (433, 14452), (447, 14530), (454, 14587), (459, 14641), (481, 14881), (490, 14956), (499, 15067), (510, 15286), (512, 15298), (527, 15484), (528, 15493), (539, 15565), (547, 15595), (554, 15616), (570, 15736), (579, 15808), (580, 15826), (581, 15832),

Gene: Rapunzel97_21 Start: 12080, Stop: 15916, Start Num: 13

Candidate Starts for Rapunzel97_21:

(Start: 13 @12080 has 163 MA's), (22, 12149), (28, 12236), (55, 12413), (61, 12440), (77, 12512), (78, 12524), (79, 12533), (89, 12605), (102, 12680), (120, 12764), (122, 12773), (126, 12794), (132, 12833), (143, 12911), (156, 12989), (169, 13079), (180, 13154), (193, 13247), (195, 13256), (196, 13268), (197, 13277), (243, 13538), (249, 13553), (258, 13586), (274, 13673), (280, 13697), (295, 13781), (305, 13865), (308, 13877), (312, 13898), (375, 14054), (387, 14135), (396, 14183), (399, 14201), (403, 14222), (407, 14258), (412, 14309), (421, 14366), (431, 14444), (433, 14453), (447, 14531), (454, 14588), (459, 14642), (481, 14882), (490, 14957), (499, 15068), (510, 15287), (512, 15299), (527, 15485), (528, 15494), (539, 15566), (547, 15596), (554, 15617), (570, 15737), (579,

15809), (580, 15827), (581, 15833),

Gene: Rattrick_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Rattrick_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Remy19_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Remy19_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Renaissance_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Renaissance_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Richarlison_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Richarlison_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Richo_21 Start: 11128, Stop: 15282, Start Num: 14

Candidate Starts for Richo_21:

(9, 11086), (Start: 14 @11128 has 38 MA's), (25, 11221), (40, 11380), (45, 11407), (66, 11497), (67, 11500), (81, 11587), (98, 11695), (114, 11764), (117, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (146, 11959), (156, 12022), (164, 12064), (176, 12133), (183, 12196), (184, 12205), (198, 12319), (199, 12325), (208, 12361), (210, 12370), (211, 12382), (213, 12394), (215, 12412), (223, 12472), (227, 12484), (229, 12490), (232, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (254, 12598), (267, 12655), (268, 12664), (274, 12694), (279, 12715), (285, 12745), (290, 12778), (302, 12862), (305, 12892), (308, 12904), (320, 13006), (326, 13084), (330, 13129), (332, 13153), (342, 13207), (343, 13210), (346, 13225), (353, 13267), (357, 13294), (359, 13303), (360, 13318), (361, 13324), (362, 13327), (386, 13468), (391, 13504), (392, 13510), (396, 13528), (401, 13555), (403, 13567), (409, 13621), (412, 13654), (422, 13714), (431, 13795), (432, 13798), (447, 13882), (449, 13897), (461, 14032), (470, 14098), (481, 14233), (508, 14584), (527, 14839), (528, 14848), (534, 14914), (570, 15109), (574, 15130), (579, 15181), (580, 15199), (581, 15205), (585, 15244),

Gene: Rosmarinus_21 Start: 12104, Stop: 15937, Start Num: 13

Candidate Starts for Rosmarinus_21:

(Start: 13 @12104 has 163 MA's), (22, 12173), (28, 12260), (35, 12335), (55, 12437), (61, 12464), (77, 12536), (78, 12548), (79, 12557), (89, 12629), (102, 12704), (120, 12788), (122, 12797), (126, 12818), (132, 12857), (136, 12893), (143, 12935), (156, 13013), (169, 13103), (180, 13178), (193, 13271), (195, 13280), (196, 13292), (197, 13301), (238, 13538), (249, 13577), (258, 13610), (274, 13697), (280, 13721), (295, 13805), (305, 13889), (308, 13901), (312, 13922), (375, 14078), (387, 14159), (396, 14207), (399, 14225), (403, 14246), (407, 14282), (412, 14333), (421, 14390), (431, 14468), (433, 14477), (447, 14555), (449, 14570), (454, 14612), (459, 14666), (481, 14906), (490, 14981), (499, 15092), (510, 15311), (512, 15323), (527, 15506), (528, 15515), (539, 15587), (547, 15617), (554, 15638), (570, 15758), (579, 15830), (580, 15848), (581, 15854),

Gene: Ruriko_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Ruriko_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: SamuelLPlaqson_21 Start: 12024, Stop: 15863, Start Num: 13

Candidate Starts for SamuelLPlaqson_21:

(Start: 13 @12024 has 163 MA's), (22, 12093), (28, 12180), (55, 12360), (61, 12387), (78, 12471), (79, 12480), (88, 12540), (89, 12552), (102, 12627), (113, 12678), (122, 12720), (126, 12741), (132, 12780), (143, 12858), (156, 12936), (160, 12960), (180, 13101), (193, 13194), (196, 13215), (197, 13224), (238, 13461), (243, 13485), (249, 13500), (258, 13533), (274, 13620), (291, 13707), (295, 13728), (305, 13812), (308, 13824), (312, 13845), (375, 14001), (387, 14082), (399, 14148), (403, 14169), (407, 14205), (412, 14256), (417, 14274), (421, 14313), (431, 14391), (447, 14478), (449, 14493), (454, 14535), (459, 14589), (481, 14829), (490, 14904), (499, 15015), (500, 15036), (501, 15057), (508, 15177), (519, 15351), (527, 15432), (528, 15441), (539, 15513), (547, 15543), (554, 15564), (570, 15684), (579, 15756), (580, 15774), (581, 15780),

Gene: Scarlett_20 Start: 11082, Stop: 15158, Start Num: 14

Candidate Starts for Scarlett_20:

(Start: 14 @11082 has 38 MA's), (25, 11175), (36, 11307), (64, 11445), (79, 11523), (80, 11535), (81, 11541), (87, 11574), (94, 11610), (103, 11667), (105, 11679), (116, 11733), (123, 11763), (137, 11850), (140, 11865), (146, 11901), (162, 11994), (176, 12075), (198, 12258), (200, 12267), (210, 12309), (215, 12351), (223, 12411), (227, 12423), (229, 12429), (232, 12444), (236, 12465), (242, 12498), (272, 12621), (274, 12633), (275, 12639), (279, 12654), (281, 12660), (306, 12744), (314, 12825), (330, 12978), (346, 13074), (348, 13086), (353, 13116), (360, 13167), (364, 13188), (369, 13218), (371, 13224), (375, 13248), (385, 13308), (392, 13359), (401, 13404), (403, 13416), (409, 13470), (412, 13503), (421, 13560), (431, 13638), (432, 13641), (447, 13725), (451, 13752), (454, 13782), (459, 13836), (461, 13875), (481, 14076), (485, 14118), (490, 14151), (508, 14439), (510, 14496), (527, 14697), (541, 14811), (570, 14988), (579, 15072), (581, 15093),

Gene: Schiebel_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Schiebel_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: SgtBeansprout_17 Start: 11327, Stop: 15460, Start Num: 13

Candidate Starts for SgtBeansprout_17:

(10, 11288), (Start: 13 @11327 has 163 MA's), (22, 11396), (28, 11483), (35, 11561), (57, 11669), (61, 11690), (70, 11723), (89, 11855), (93, 11870), (94, 11876), (102, 11930), (108, 11960), (122, 12023), (126, 12044), (132, 12083), (143, 12161), (156, 12239), (160, 12263), (193, 12497), (209, 12578), (216, 12638), (223, 12695), (233, 12731), (238, 12764), (243, 12788), (261, 12854), (263, 12863), (274, 12923), (295, 13031), (300, 13076), (321, 13232), (329, 13343), (330, 13352), (331, 13364), (339, 13415), (343, 13433), (348, 13460), (353, 13490), (367, 13583), (375, 13622), (403, 13790), (409, 13844), (412, 13877), (420, 13922), (431, 14003), (432, 14006), (447, 14090), (448, 14096), (449, 14105), (454, 14147), (458, 14183), (459, 14201), (461, 14240), (468, 14300), (481, 14441), (488, 14501), (490, 14516), (512, 14858), (527, 15047), (528, 15056), (537, 15119), (581, 15395),

Gene: ShaboiShabazz_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for ShaboiShabazz_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Shadow1_19 Start: 10962, Stop: 14963, Start Num: 14

Candidate Starts for Shadow1_19:

(Start: 14 @10962 has 38 MA's), (25, 11055), (31, 11160), (40, 11214), (43, 11232), (48, 11250), (54, 11280), (60, 11307), (62, 11313), (87, 11454), (90, 11472), (91, 11475), (114, 11589), (116, 11604), (137, 11721), (140, 11736), (153, 11817), (165, 11886), (176, 11946), (198, 12129), (199, 12135), (211, 12192), (223, 12282), (227, 12294), (229, 12300), (232, 12315), (236, 12336), (239, 12354),

(259, 12429), (272, 12492), (274, 12504), (279, 12525), (287, 12564), (304, 12609), (308, 12624), (324, 12786), (333, 12876), (347, 12948), (353, 12987), (360, 13038), (364, 13059), (369, 13089), (371, 13095), (375, 13119), (383, 13170), (399, 13266), (403, 13287), (407, 13323), (412, 13374), (431, 13515), (447, 13602), (451, 13629), (459, 13713), (481, 13953), (490, 14028), (511, 14361), (519, 14463), (520, 14472), (527, 14544), (528, 14553), (539, 14628), (547, 14658), (553, 14679), (570, 14796), (576, 14847), (579, 14871), (583, 14910), (584, 14922),

Gene: Shaobing_21 Start: 11128, Stop: 15282, Start Num: 14

Candidate Starts for Shaobing_21:

(9, 11086), (Start: 14 @11128 has 38 MA's), (25, 11221), (40, 11380), (45, 11407), (66, 11497), (67, 11500), (81, 11587), (98, 11695), (114, 11764), (117, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (146, 11959), (156, 12022), (164, 12064), (176, 12133), (183, 12196), (184, 12205), (198, 12319), (199, 12325), (208, 12361), (210, 12370), (211, 12382), (213, 12394), (215, 12412), (223, 12472), (227, 12484), (229, 12490), (232, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (254, 12598), (267, 12655), (268, 12664), (273, 12688), (274, 12694), (279, 12715), (285, 12745), (290, 12778), (302, 12862), (305, 12892), (308, 12904), (320, 13006), (326, 13084), (330, 13129), (332, 13153), (342, 13207), (343, 13210), (346, 13225), (353, 13267), (357, 13294), (359, 13303), (360, 13318), (361, 13324), (362, 13327), (386, 13468), (391, 13504), (392, 13510), (396, 13528), (401, 13555), (403, 13567), (409, 13621), (412, 13654), (422, 13714), (431, 13795), (432, 13798), (447, 13882), (449, 13897), (461, 14032), (470, 14098), (481, 14233), (508, 14584), (527, 14839), (528, 14848), (534, 14914), (570, 15109), (574, 15130), (579, 15181), (580, 15199), (581, 15205), (585, 15244),

Gene: ShedlockHolmes_20 Start: 12197, Stop: 16345, Start Num: 13

Candidate Starts for ShedlockHolmes_20:

(Start: 13 @12197 has 163 MA's), (22, 12266), (23, 12287), (25, 12293), (28, 12353), (46, 12491), (57, 12536), (61, 12557), (74, 12602), (88, 12710), (89, 12722), (94, 12743), (102, 12797), (108, 12827), (113, 12848), (120, 12881), (122, 12890), (126, 12911), (132, 12950), (143, 13028), (150, 13070), (156, 13106), (160, 13130), (186, 13304), (193, 13364), (196, 13385), (197, 13394), (223, 13562), (230, 13583), (234, 13607), (238, 13631), (242, 13652), (250, 13670), (258, 13703), (265, 13745), (266, 13748), (267, 13751), (274, 13790), (276, 13799), (286, 13868), (303, 13979), (307, 14009), (328, 14207), (330, 14240), (345, 14330), (348, 14348), (353, 14378), (357, 14405), (392, 14621), (399, 14657), (407, 14714), (409, 14732), (412, 14765), (414, 14777), (422, 14825), (431, 14906), (432, 14909), (454, 15026), (461, 15119), (471, 15197), (479, 15296), (481, 15320), (490, 15395), (519, 15854), (521, 15866), (527, 15935), (528, 15944), (563, 16136), (565, 16154), (572, 16190), (574, 16199), (580, 16265), (581, 16271), (583, 16286), (584, 16298),

Gene: ShiaSurprise_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for ShiaSurprise_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: SirPhilip_20 Start: 10854, Stop: 14759, Start Num: 14

Candidate Starts for SirPhilip_20:

(Start: 14 @10854 has 38 MA's), (25, 10947), (31, 11052), (39, 11103), (40, 11106), (62, 11205), (78, 11286), (79, 11295), (85, 11334), (87, 11346), (90, 11364), (91, 11367), (93, 11376), (99, 11424), (103,

11439), (108, 11457), (110, 11463), (112, 11475), (137, 11613), (140, 11628), (152, 11694), (153, 11709), (198, 12021), (209, 12066), (210, 12072), (211, 12084), (215, 12114), (223, 12174), (227, 12186), (229, 12192), (232, 12207), (236, 12228), (239, 12246), (240, 12249), (266, 12354), (274, 12396), (279, 12417), (287, 12456), (307, 12510), (308, 12516), (330, 12675), (334, 12708), (351, 12753), (352, 12756), (353, 12759), (357, 12786), (358, 12789), (359, 12795), (362, 12819), (367, 12852), (374, 12885), (386, 12960), (394, 13014), (396, 13020), (399, 13038), (403, 13059), (406, 13092), (422, 13206), (431, 13287), (432, 13290), (447, 13374), (459, 13485), (461, 13524), (468, 13584), (481, 13725), (490, 13800), (520, 14253), (527, 14325), (533, 14379), (541, 14430), (563, 14556), (570, 14598), (579, 14673), (581, 14694),

Gene: Sizemore_16 Start: 11465, Stop: 15478, Start Num: 13

Candidate Starts for Sizemore_16:

(Start: 13 @11465 has 163 MA's), (30, 11666), (51, 11780), (61, 11822), (69, 11852), (89, 11987), (92, 11999), (94, 12008), (129, 12197), (132, 12215), (133, 12218), (135, 12239), (136, 12251), (148, 12323), (156, 12371), (177, 12503), (179, 12527), (190, 12608), (212, 12731), (222, 12815), (231, 12851), (238, 12896), (239, 12902), (265, 13010), (270, 13034), (274, 13055), (311, 13274), (325, 13424), (333, 13511), (352, 13619), (375, 13754), (392, 13865), (396, 13883), (402, 13913), (429, 14135), (435, 14159), (437, 14174), (441, 14195), (447, 14222), (451, 14249), (457, 14309), (464, 14399), (467, 14432), (475, 14495), (478, 14552), (480, 14585), (482, 14594), (521, 15098), (522, 15125), (525, 15155), (527, 15167), (528, 15176), (539, 15245), (557, 15326), (564, 15386), (567, 15404), (568, 15413),

Gene: Slimphazie_21 Start: 12080, Stop: 15916, Start Num: 13

Candidate Starts for Slimphazie_21:

(Start: 13 @12080 has 163 MA's), (22, 12149), (28, 12236), (55, 12413), (61, 12440), (77, 12512), (78, 12524), (79, 12533), (89, 12605), (102, 12680), (120, 12764), (122, 12773), (126, 12794), (132, 12833), (143, 12911), (156, 12989), (169, 13079), (180, 13154), (193, 13247), (195, 13256), (196, 13268), (197, 13277), (243, 13538), (249, 13553), (258, 13586), (274, 13673), (280, 13697), (295, 13781), (305, 13865), (308, 13877), (312, 13898), (375, 14054), (387, 14135), (396, 14183), (399, 14201), (403, 14222), (407, 14258), (412, 14309), (421, 14366), (431, 14444), (433, 14453), (447, 14531), (454, 14588), (459, 14642), (481, 14882), (490, 14957), (499, 15068), (510, 15287), (512, 15299), (527, 15485), (528, 15494), (539, 15566), (547, 15596), (554, 15617), (570, 15737), (579, 15809), (580, 15827), (581, 15833),

Gene: Sneeze_16 Start: 11453, Stop: 15478, Start Num: 13

Candidate Starts for Sneeze_16:

(Start: 13 @11453 has 163 MA's), (18, 11477), (30, 11654), (51, 11768), (61, 11810), (66, 11831), (69, 11840), (89, 11975), (94, 11996), (122, 12143), (129, 12185), (132, 12203), (133, 12206), (135, 12227), (136, 12239), (156, 12359), (166, 12425), (177, 12491), (179, 12515), (190, 12596), (212, 12719), (214, 12740), (228, 12830), (231, 12839), (239, 12890), (250, 12923), (254, 12941), (265, 12998), (274, 13043), (291, 13130), (295, 13151), (308, 13247), (311, 13262), (321, 13352), (324, 13409), (325, 13412), (347, 13571), (348, 13580), (352, 13607), (375, 13742), (396, 13871), (402, 13901), (429, 14123), (435, 14147), (437, 14162), (441, 14183), (451, 14237), (457, 14297), (464, 14387), (467, 14420), (469, 14435), (475, 14483), (478, 14540), (480, 14573), (514, 15005), (521, 15095), (522, 15122), (527, 15164), (528, 15173), (539, 15242), (545, 15269), (557, 15326), (564, 15386), (567, 15404), (568, 15413),

Gene: Spock_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Spock_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709),

(280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Stargaze_16 Start: 11766, Stop: 15800, Start Num: 14

Candidate Starts for Stargaze_16:

(Start: 14 @11766 has 38 MA's), (25, 11862), (30, 11967), (43, 12042), (48, 12060), (50, 12072), (54, 12090), (60, 12117), (62, 12123), (81, 12231), (83, 12237), (85, 12252), (87, 12264), (90, 12282), (97, 12327), (106, 12363), (109, 12378), (112, 12393), (114, 12399), (133, 12501), (137, 12543), (140, 12558), (146, 12594), (156, 12657), (159, 12678), (162, 12687), (172, 12750), (176, 12768), (194, 12909), (198, 12951), (205, 12981), (206, 12984), (208, 12993), (210, 13002), (215, 13044), (226, 13113), (227, 13116), (229, 13122), (232, 13137), (236, 13158), (237, 13167), (261, 13263), (270, 13305), (274, 13326), (280, 13350), (282, 13362), (283, 13365), (292, 13422), (297, 13455), (302, 13494), (308, 13536), (309, 13539), (321, 13641), (325, 13701), (326, 13716), (329, 13752), (336, 13815), (341, 13836), (352, 13896), (371, 14007), (375, 14031), (383, 14082), (384, 14088), (404, 14220), (425, 14352), (435, 14436), (437, 14451), (450, 14517), (457, 14586), (462, 14667), (464, 14676), (475, 14769), (478, 14826), (480, 14859), (487, 14919), (489, 14934), (508, 15213), (521, 15402), (522, 15429), (527, 15471), (564, 15708), (567, 15726), (569, 15741), (571, 15753),

Gene: Stinson_21 Start: 12048, Stop: 15881, Start Num: 13

Candidate Starts for Stinson_21:

(Start: 13 @12048 has 163 MA's), (22, 12117), (28, 12204), (55, 12384), (61, 12411), (78, 12495), (79, 12504), (88, 12564), (89, 12576), (102, 12651), (111, 12693), (120, 12735), (122, 12744), (126, 12765), (132, 12804), (143, 12882), (156, 12960), (180, 13125), (193, 13218), (196, 13239), (197, 13248), (238, 13485), (243, 13509), (249, 13524), (258, 13557), (274, 13644), (295, 13752), (305, 13836), (308, 13848), (312, 13869), (320, 13950), (375, 14025), (387, 14106), (389, 14115), (396, 14154), (399, 14172), (403, 14193), (407, 14229), (412, 14280), (421, 14337), (431, 14415), (433, 14424), (447, 14502), (449, 14517), (454, 14559), (459, 14613), (481, 14853), (490, 14928), (499, 15039), (510, 15258), (519, 15372), (527, 15453), (528, 15462), (539, 15534), (547, 15564), (554, 15585), (570, 15702), (579, 15774), (581, 15798),

Gene: Strobilo_17 Start: 10116, Stop: 13787, Start Num: 12

Candidate Starts for Strobilo_17:

(Start: 12 @10116 has 10 MA's), (22, 10188), (65, 10422), (77, 10473), (89, 10566), (94, 10587), (102, 10641), (122, 10734), (126, 10755), (129, 10776), (130, 10782), (143, 10872), (150, 10914), (156, 10950), (163, 10983), (164, 10995), (167, 11019), (169, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (222, 11370), (223, 11382), (225, 11388), (231, 11406), (234, 11427), (238, 11451), (243, 11475), (245, 11484), (252, 11499), (264, 11511), (293, 11544), (300, 11592), (316, 11733), (317, 11739), (322, 11775), (327, 11802), (331, 11820), (344, 11850), (363, 11946), (372, 11979), (383, 12015), (393, 12066), (399, 12099), (403, 12120), (405, 12144), (410, 12174), (413, 12195), (454, 12417), (461, 12510), (471, 12588), (481, 12711), (493, 12816), (496, 12864), (519, 13284), (520, 13293), (522, 13323), (549, 13488), (570, 13617), (581, 13710),

Gene: Sulley_21 Start: 12049, Stop: 15882, Start Num: 13

Candidate Starts for Sulley_21:

(Start: 13 @12049 has 163 MA's), (22, 12118), (28, 12205), (55, 12382), (61, 12409), (78, 12493), (79, 12502), (89, 12574), (102, 12649), (120, 12733), (122, 12742), (126, 12763), (132, 12802), (143, 12880), (156, 12958), (169, 13048), (180, 13123), (193, 13216), (196, 13237), (197, 13246), (238, 13483), (249, 13522), (258, 13555), (274, 13642), (280, 13666), (295, 13750), (305, 13834), (308, 13846), (312, 13867), (375, 14023), (387, 14104), (396, 14152), (399, 14170), (403, 14191), (407,

14227), (412, 14278), (421, 14335), (431, 14413), (433, 14422), (447, 14500), (449, 14515), (454, 14557), (459, 14611), (481, 14851), (490, 14926), (499, 15037), (510, 15256), (512, 15268), (527, 15451), (528, 15460), (547, 15562), (554, 15583), (570, 15703), (579, 15775), (580, 15793), (581, 15799),

Gene: Sunflower1121_19 Start: 10973, Stop: 14974, Start Num: 14

Candidate Starts for Sunflower1121_19:

(7, 10925), (Start: 14 @10973 has 38 MA's), (25, 11066), (31, 11171), (40, 11225), (43, 11243), (48, 11261), (54, 11291), (60, 11318), (62, 11324), (75, 11369), (87, 11465), (90, 11483), (91, 11486), (114, 11600), (116, 11615), (137, 11732), (140, 11747), (153, 11828), (164, 11888), (165, 11897), (176, 11957), (198, 12140), (199, 12146), (211, 12203), (223, 12293), (227, 12305), (229, 12311), (232, 12326), (236, 12347), (239, 12365), (259, 12440), (272, 12503), (274, 12515), (279, 12536), (287, 12575), (304, 12620), (308, 12635), (324, 12797), (330, 12860), (333, 12887), (347, 12959), (353, 12998), (360, 13049), (364, 13070), (369, 13100), (371, 13106), (375, 13130), (383, 13181), (403, 13298), (407, 13334), (412, 13385), (431, 13526), (447, 13613), (451, 13640), (459, 13724), (481, 13964), (490, 14039), (511, 14372), (519, 14474), (520, 14483), (527, 14555), (528, 14564), (539, 14639), (547, 14669), (553, 14690), (570, 14807), (576, 14858), (579, 14882), (583, 14921), (584, 14933),

Gene: Sweets_16 Start: 11459, Stop: 15472, Start Num: 13

Candidate Starts for Sweets_16:

(Start: 13 @11459 has 163 MA's), (30, 11660), (51, 11774), (61, 11816), (69, 11846), (89, 11981), (92, 11993), (94, 12002), (129, 12191), (132, 12209), (133, 12212), (135, 12233), (136, 12245), (148, 12317), (156, 12365), (177, 12497), (179, 12521), (190, 12602), (212, 12725), (222, 12809), (231, 12845), (238, 12890), (239, 12896), (265, 13004), (270, 13028), (274, 13049), (311, 13268), (325, 13418), (333, 13505), (352, 13613), (375, 13748), (392, 13859), (396, 13877), (402, 13907), (429, 14129), (435, 14153), (437, 14168), (441, 14189), (447, 14216), (451, 14243), (457, 14303), (464, 14393), (467, 14426), (475, 14489), (478, 14546), (480, 14579), (482, 14588), (521, 15092), (522, 15119), (525, 15149), (527, 15161), (528, 15170), (539, 15239), (557, 15320), (564, 15380), (567, 15398), (568, 15407),

Gene: Syra333_20 Start: 11068, Stop: 15069, Start Num: 14

Candidate Starts for Syra333_20:

(Start: 14 @11068 has 38 MA's), (25, 11161), (31, 11266), (40, 11320), (43, 11338), (48, 11356), (54, 11386), (60, 11413), (62, 11419), (75, 11464), (87, 11560), (90, 11578), (91, 11581), (114, 11695), (116, 11710), (137, 11827), (140, 11842), (153, 11923), (164, 11983), (165, 11992), (176, 12052), (198, 12235), (199, 12241), (211, 12298), (223, 12388), (227, 12400), (229, 12406), (232, 12421), (236, 12442), (239, 12460), (259, 12535), (266, 12568), (272, 12598), (274, 12610), (279, 12631), (287, 12670), (304, 12715), (308, 12730), (324, 12892), (330, 12955), (333, 12982), (347, 13054), (353, 13093), (360, 13144), (364, 13165), (369, 13195), (371, 13201), (375, 13225), (383, 13276), (399, 13372), (403, 13393), (407, 13429), (412, 13480), (431, 13621), (432, 13624), (447, 13708), (451, 13735), (459, 13819), (460, 13831), (481, 14059), (490, 14134), (527, 14650), (528, 14659), (539, 14734), (547, 14764), (553, 14785), (570, 14902), (579, 14977), (583, 15016), (584, 15028),

Gene: TBond007_20 Start: 11948, Stop: 16126, Start Num: 13

Candidate Starts for TBond007_20:

(Start: 13 @11948 has 163 MA's), (22, 12017), (23, 12038), (25, 12044), (28, 12104), (46, 12242), (57, 12287), (61, 12308), (88, 12461), (89, 12473), (94, 12494), (102, 12548), (108, 12578), (113, 12599), (120, 12632), (122, 12641), (126, 12662), (132, 12701), (143, 12779), (150, 12821), (156, 12857), (160, 12881), (186, 13055), (190, 13094), (193, 13115), (196, 13136), (197, 13145), (223, 13313), (230, 13334), (234, 13358), (238, 13382), (242, 13403), (250, 13421), (258, 13454), (265, 13496), (266, 13499), (267, 13502), (274, 13541), (276, 13550), (286, 13619), (303, 13730), (307, 13760), (328, 13958), (330, 13991), (345, 14081), (348, 14099), (353, 14129), (357, 14156), (392, 14372),

(399, 14408), (407, 14465), (409, 14483), (411, 14504), (412, 14516), (422, 14576), (431, 14657), (438, 14696), (445, 14729), (447, 14744), (448, 14750), (449, 14759), (454, 14801), (461, 14894), (471, 14972), (481, 15095), (490, 15170), (519, 15635), (521, 15647), (527, 15716), (528, 15725), (563, 15917), (572, 15971), (574, 15980), (580, 16046), (581, 16052), (583, 16067), (584, 16079),

Gene: TClif_20 Start: 11063, Stop: 15118, Start Num: 14

Candidate Starts for TClif_20:

(7, 11015), (Start: 14 @11063 has 38 MA's), (17, 11081), (25, 11156), (40, 11315), (60, 11408), (63, 11417), (67, 11435), (72, 11450), (79, 11504), (85, 11543), (87, 11555), (91, 11576), (97, 11618), (103, 11648), (110, 11672), (131, 11783), (137, 11822), (140, 11837), (141, 11846), (146, 11873), (156, 11936), (176, 12047), (181, 12098), (198, 12230), (209, 12275), (210, 12281), (215, 12323), (223, 12383), (227, 12395), (229, 12401), (232, 12416), (236, 12437), (239, 12455), (242, 12470), (253, 12506), (266, 12563), (272, 12593), (274, 12605), (278, 12623), (303, 12689), (307, 12719), (308, 12725), (318, 12824), (321, 12830), (330, 12950), (335, 12998), (339, 13013), (346, 13046), (348, 13058), (353, 13088), (359, 13124), (360, 13139), (361, 13145), (366, 13172), (371, 13196), (375, 13220), (381, 13250), (383, 13271), (396, 13349), (403, 13388), (407, 13424), (412, 13475), (423, 13538), (431, 13616), (432, 13619), (436, 13643), (447, 13703), (461, 13853), (481, 14054), (490, 14129), (495, 14198), (527, 14678), (528, 14687), (532, 14708), (539, 14783), (541, 14795), (547, 14813), (553, 14834), (570, 14951), (579, 15026), (580, 15044), (581, 15050), (583, 15065), (584, 15077), (585, 15089), (586, 15092), (588, 15113),

Gene: Tachez_21 Start: 12042, Stop: 15878, Start Num: 13

Candidate Starts for Tachez_21:

(Start: 13 @12042 has 163 MA's), (22, 12111), (28, 12198), (55, 12375), (61, 12402), (77, 12474), (78, 12486), (79, 12495), (89, 12567), (102, 12642), (120, 12726), (122, 12735), (126, 12756), (132, 12795), (143, 12873), (156, 12951), (169, 13041), (180, 13116), (193, 13209), (195, 13218), (196, 13230), (197, 13239), (243, 13500), (249, 13515), (258, 13548), (274, 13635), (280, 13659), (295, 13743), (305, 13827), (308, 13839), (312, 13860), (375, 14016), (387, 14097), (396, 14145), (399, 14163), (403, 14184), (407, 14220), (412, 14271), (421, 14328), (431, 14406), (433, 14415), (447, 14493), (454, 14550), (459, 14604), (481, 14844), (490, 14919), (499, 15030), (510, 15249), (512, 15261), (527, 15447), (528, 15456), (539, 15528), (547, 15558), (554, 15579), (570, 15699), (579, 15771), (580, 15789), (581, 15795),

Gene: Taheera_16 Start: 11466, Stop: 15491, Start Num: 13

Candidate Starts for Taheera_16:

(Start: 13 @11466 has 163 MA's), (18, 11490), (30, 11667), (51, 11781), (61, 11823), (66, 11844), (69, 11853), (89, 11988), (94, 12009), (122, 12156), (129, 12198), (132, 12216), (133, 12219), (134, 12234), (135, 12240), (136, 12252), (156, 12372), (166, 12438), (177, 12504), (179, 12528), (190, 12609), (212, 12732), (214, 12753), (222, 12816), (228, 12843), (231, 12852), (239, 12903), (254, 12954), (265, 13011), (274, 13056), (291, 13143), (308, 13260), (311, 13275), (321, 13365), (324, 13422), (325, 13425), (345, 13575), (348, 13593), (396, 13884), (402, 13914), (429, 14136), (435, 14160), (437, 14175), (441, 14196), (451, 14250), (457, 14310), (464, 14400), (467, 14433), (469, 14448), (475, 14496), (478, 14553), (480, 14586), (514, 15018), (521, 15108), (522, 15135), (527, 15177), (528, 15186), (539, 15255), (545, 15282), (557, 15339), (564, 15399), (567, 15417), (568, 15426),

Gene: TaiwanKao_22 Start: 12053, Stop: 15889, Start Num: 13

Candidate Starts for TaiwanKao_22:

(Start: 13 @12053 has 163 MA's), (22, 12122), (28, 12209), (55, 12389), (61, 12416), (78, 12500), (79, 12509), (88, 12569), (89, 12581), (102, 12656), (111, 12698), (120, 12740), (122, 12749), (126, 12770), (132, 12809), (143, 12887), (156, 12965), (180, 13130), (193, 13223), (195, 13232), (196, 13244), (197, 13253), (238, 13490), (243, 13514), (249, 13529), (258, 13562), (274, 13649), (280, 13673), (295, 13757), (305, 13841), (308, 13853), (320, 13955), (375, 14030), (387, 14111), (396,

14159), (399, 14177), (402, 14189), (403, 14198), (407, 14234), (412, 14285), (421, 14342), (431, 14420), (433, 14429), (447, 14507), (449, 14522), (454, 14564), (459, 14618), (481, 14858), (490, 14933), (499, 15044), (510, 15263), (512, 15275), (519, 15377), (527, 15458), (528, 15467), (539, 15539), (547, 15569), (554, 15590), (570, 15710), (579, 15782), (580, 15800), (581, 15806),

Gene: Teejan_17 Start: 11327, Stop: 15460, Start Num: 13

Candidate Starts for Teejan_17:

(10, 11288), (Start: 13 @11327 has 163 MA's), (22, 11396), (28, 11483), (35, 11561), (57, 11669), (61, 11690), (70, 11723), (89, 11855), (93, 11870), (94, 11876), (102, 11930), (108, 11960), (122, 12023), (126, 12044), (132, 12083), (143, 12161), (156, 12239), (160, 12263), (193, 12497), (209, 12578), (216, 12638), (223, 12695), (233, 12731), (238, 12764), (243, 12788), (261, 12854), (263, 12863), (274, 12923), (295, 13031), (300, 13076), (321, 13232), (329, 13343), (330, 13352), (331, 13364), (339, 13415), (343, 13433), (348, 13460), (353, 13490), (367, 13583), (375, 13622), (403, 13790), (409, 13844), (412, 13877), (420, 13922), (431, 14003), (432, 14006), (447, 14090), (448, 14096), (449, 14105), (454, 14147), (458, 14183), (459, 14201), (461, 14240), (468, 14300), (481, 14441), (488, 14501), (490, 14516), (512, 14858), (527, 15047), (528, 15056), (537, 15119), (581, 15395),

Gene: Terror_16 Start: 11466, Stop: 15491, Start Num: 13

Candidate Starts for Terror_16:

(Start: 13 @11466 has 163 MA's), (18, 11490), (30, 11667), (51, 11781), (61, 11823), (66, 11844), (69, 11853), (89, 11988), (94, 12009), (122, 12156), (129, 12198), (132, 12216), (133, 12219), (134, 12234), (135, 12240), (136, 12252), (156, 12372), (166, 12438), (177, 12504), (179, 12528), (190, 12609), (212, 12732), (214, 12753), (222, 12816), (228, 12843), (231, 12852), (239, 12903), (254, 12954), (265, 13011), (274, 13056), (291, 13143), (308, 13260), (311, 13275), (321, 13365), (324, 13422), (325, 13425), (345, 13575), (348, 13593), (396, 13884), (402, 13914), (429, 14136), (435, 14160), (437, 14175), (441, 14196), (451, 14250), (457, 14310), (464, 14400), (467, 14433), (469, 14448), (475, 14496), (478, 14553), (480, 14586), (514, 15018), (521, 15108), (522, 15135), (527, 15177), (528, 15186), (539, 15255), (545, 15282), (557, 15339), (564, 15399), (567, 15417), (568, 15426),

Gene: Tierra_20 Start: 11792, Stop: 15793, Start Num: 14

Candidate Starts for Tierra_20:

(Start: 14 @11792 has 38 MA's), (25, 11885), (31, 11990), (36, 12017), (40, 12044), (43, 12062), (48, 12080), (53, 12104), (54, 12110), (60, 12137), (62, 12143), (72, 12179), (75, 12188), (77, 12212), (87, 12284), (90, 12302), (91, 12305), (116, 12434), (137, 12551), (153, 12647), (159, 12686), (165, 12716), (176, 12776), (198, 12959), (199, 12965), (200, 12968), (211, 13022), (215, 13052), (223, 13112), (227, 13124), (229, 13130), (232, 13145), (236, 13166), (239, 13184), (272, 13322), (274, 13334), (279, 13355), (287, 13394), (307, 13448), (308, 13454), (324, 13616), (330, 13679), (343, 13760), (346, 13775), (353, 13817), (360, 13868), (364, 13889), (369, 13919), (371, 13925), (375, 13949), (383, 14000), (392, 14060), (403, 14117), (407, 14153), (409, 14171), (412, 14204), (431, 14345), (432, 14348), (447, 14432), (451, 14459), (459, 14543), (481, 14783), (490, 14858), (511, 15191), (519, 15293), (520, 15302), (527, 15374), (539, 15458), (547, 15488), (553, 15509), (570, 15626), (579, 15701), (583, 15740), (584, 15752),

Gene: Tigress9_20 Start: 11051, Stop: 15055, Start Num: 14

Candidate Starts for Tigress9_20:

(Start: 14 @11051 has 38 MA's), (25, 11144), (31, 11249), (40, 11303), (43, 11321), (48, 11339), (54, 11369), (60, 11396), (62, 11402), (75, 11447), (87, 11543), (90, 11561), (91, 11564), (114, 11678), (116, 11693), (137, 11810), (140, 11825), (153, 11906), (164, 11966), (165, 11975), (176, 12035), (198, 12218), (199, 12224), (211, 12281), (223, 12371), (227, 12383), (229, 12389), (232, 12404), (236, 12425), (239, 12443), (259, 12518), (266, 12551), (272, 12581), (274, 12593), (279, 12614), (287, 12653), (304, 12698), (308, 12713), (324, 12875), (330, 12938), (333, 12965), (347, 13037), (353, 13076), (360, 13127), (364, 13148), (369, 13178), (371, 13184), (375, 13208), (383, 13259),

(399, 13355), (403, 13376), (407, 13412), (412, 13463), (431, 13604), (432, 13607), (447, 13691), (451, 13718), (459, 13802), (481, 14042), (490, 14117), (519, 14555), (520, 14564), (527, 14636), (528, 14645), (539, 14720), (547, 14750), (553, 14771), (570, 14888), (579, 14963), (583, 15002), (584, 15014),

Gene: TinaBug_16 Start: 11459, Stop: 15472, Start Num: 13

Candidate Starts for TinaBug_16:

(Start: 13 @11459 has 163 MA's), (30, 11660), (51, 11774), (61, 11816), (69, 11846), (89, 11981), (92, 11993), (94, 12002), (129, 12191), (132, 12209), (133, 12212), (135, 12233), (136, 12245), (148, 12317), (156, 12365), (177, 12497), (179, 12521), (190, 12602), (212, 12725), (222, 12809), (231, 12845), (238, 12890), (239, 12896), (265, 13004), (270, 13028), (274, 13049), (311, 13268), (325, 13418), (333, 13505), (352, 13613), (375, 13748), (392, 13859), (396, 13877), (402, 13907), (429, 14129), (435, 14153), (437, 14168), (441, 14189), (447, 14216), (451, 14243), (457, 14303), (464, 14393), (467, 14426), (475, 14489), (478, 14546), (480, 14579), (482, 14588), (521, 15092), (522, 15119), (525, 15149), (527, 15161), (528, 15170), (539, 15239), (557, 15320), (564, 15380), (567, 15398), (568, 15407),

Gene: TingHuaYa_21 Start: 11093, Stop: 15220, Start Num: 14

Candidate Starts for TingHuaYa_21:

(9, 11045), (Start: 14 @11093 has 38 MA's), (25, 11186), (36, 11318), (39, 11342), (45, 11372), (50, 11393), (53, 11405), (60, 11438), (67, 11465), (81, 11552), (87, 11585), (90, 11603), (91, 11606), (97, 11648), (108, 11696), (133, 11822), (137, 11864), (140, 11879), (146, 11915), (157, 11987), (176, 12089), (198, 12272), (208, 12314), (209, 12317), (210, 12323), (211, 12335), (215, 12365), (223, 12425), (229, 12443), (232, 12458), (235, 12476), (236, 12479), (242, 12512), (263, 12593), (267, 12608), (274, 12647), (279, 12668), (305, 12845), (308, 12857), (310, 12866), (313, 12917), (320, 12959), (330, 13082), (332, 13106), (343, 13163), (346, 13178), (347, 13181), (357, 13247), (359, 13256), (362, 13280), (371, 13328), (383, 13403), (386, 13421), (396, 13481), (401, 13508), (403, 13520), (407, 13556), (409, 13574), (414, 13619), (418, 13649), (422, 13667), (431, 13748), (432, 13751), (447, 13835), (449, 13850), (453, 13889), (454, 13892), (461, 13985), (470, 14051), (481, 14186), (508, 14537), (519, 14708), (527, 14789), (539, 14873), (570, 15041), (579, 15113), (580, 15131), (581, 15137),

Gene: TiniBug_21 Start: 12024, Stop: 15860, Start Num: 13

Candidate Starts for TiniBug_21:

(Start: 13 @12024 has 163 MA's), (22, 12093), (28, 12180), (55, 12360), (61, 12387), (78, 12471), (79, 12480), (88, 12540), (89, 12552), (102, 12627), (111, 12669), (120, 12711), (122, 12720), (126, 12741), (132, 12780), (143, 12858), (156, 12936), (180, 13101), (193, 13194), (196, 13215), (197, 13224), (238, 13461), (243, 13485), (249, 13500), (258, 13533), (274, 13620), (291, 13707), (295, 13728), (305, 13812), (308, 13824), (312, 13845), (375, 14001), (387, 14082), (399, 14148), (403, 14169), (407, 14205), (412, 14256), (417, 14274), (421, 14313), (431, 14391), (447, 14478), (449, 14493), (454, 14535), (459, 14589), (481, 14829), (490, 14904), (499, 15015), (500, 15036), (501, 15057), (508, 15177), (519, 15348), (527, 15429), (528, 15438), (539, 15510), (547, 15540), (554, 15561), (570, 15681), (579, 15753), (580, 15771), (581, 15777),

Gene: Tiri_21 Start: 12088, Stop: 15921, Start Num: 13

Candidate Starts for Tiri_21:

(3, 11869), (10, 12049), (Start: 13 @12088 has 163 MA's), (22, 12157), (28, 12244), (55, 12421), (61, 12448), (78, 12532), (79, 12541), (89, 12613), (102, 12688), (120, 12772), (122, 12781), (126, 12802), (132, 12841), (143, 12919), (156, 12997), (169, 13087), (180, 13162), (193, 13255), (195, 13264), (196, 13276), (197, 13285), (228, 13468), (238, 13522), (249, 13561), (258, 13594), (274, 13681), (280, 13705), (295, 13789), (305, 13873), (308, 13885), (312, 13906), (375, 14062), (387, 14143), (396, 14191), (399, 14209), (403, 14230), (407, 14266), (412, 14317), (421, 14374), (431, 14452), (433, 14461), (447, 14539), (454, 14596), (459, 14650), (481, 14890), (490, 14965), (499, 15076),

(510, 15295), (512, 15307), (519, 15409), (527, 15490), (528, 15499), (547, 15601), (554, 15622), (570, 15742), (579, 15814), (580, 15832), (581, 15838),

Gene: TomBrady_16 Start: 11465, Stop: 15478, Start Num: 13

Candidate Starts for TomBrady_16:

(Start: 13 @11465 has 163 MA's), (30, 11666), (51, 11780), (61, 11822), (69, 11852), (89, 11987), (92, 11999), (94, 12008), (129, 12197), (132, 12215), (133, 12218), (135, 12239), (136, 12251), (148, 12323), (156, 12371), (177, 12503), (179, 12527), (190, 12608), (212, 12731), (222, 12815), (231, 12851), (238, 12896), (239, 12902), (265, 13010), (270, 13034), (274, 13055), (311, 13274), (325, 13424), (333, 13511), (352, 13619), (375, 13754), (392, 13865), (396, 13883), (402, 13913), (429, 14135), (435, 14159), (437, 14174), (441, 14195), (447, 14222), (451, 14249), (457, 14309), (464, 14399), (467, 14432), (475, 14495), (478, 14552), (480, 14585), (482, 14594), (521, 15098), (522, 15125), (525, 15155), (527, 15167), (528, 15176), (539, 15245), (557, 15326), (564, 15386), (567, 15404), (568, 15413),

Gene: Topper_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Topper_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Torres_17 Start: 11327, Stop: 15460, Start Num: 13

Candidate Starts for Torres_17:

(10, 11288), (Start: 13 @11327 has 163 MA's), (22, 11396), (28, 11483), (35, 11561), (57, 11669), (61, 11690), (70, 11723), (89, 11855), (93, 11870), (94, 11876), (102, 11930), (108, 11960), (122, 12023), (126, 12044), (132, 12083), (143, 12161), (156, 12239), (160, 12263), (193, 12497), (209, 12578), (216, 12638), (223, 12695), (233, 12731), (238, 12764), (243, 12788), (261, 12854), (263, 12863), (274, 12923), (295, 13031), (300, 13076), (321, 13232), (329, 13343), (330, 13352), (331, 13364), (339, 13415), (343, 13433), (348, 13460), (353, 13490), (367, 13583), (375, 13622), (403, 13790), (409, 13844), (412, 13877), (420, 13922), (431, 14003), (432, 14006), (447, 14090), (448, 14096), (449, 14105), (454, 14147), (458, 14183), (459, 14201), (461, 14240), (468, 14300), (481, 14441), (488, 14501), (490, 14516), (512, 14858), (527, 15047), (528, 15056), (537, 15119), (581, 15395),

Gene: TreyKay_21 Start: 12047, Stop: 15883, Start Num: 13

Candidate Starts for TreyKay_21:

(Start: 13 @12047 has 163 MA's), (22, 12116), (28, 12203), (55, 12383), (61, 12410), (79, 12503), (88, 12563), (89, 12575), (102, 12650), (113, 12701), (122, 12743), (126, 12764), (132, 12803), (143, 12881), (156, 12959), (160, 12983), (180, 13124), (193, 13217), (195, 13226), (196, 13238), (197, 13247), (238, 13484), (243, 13508), (249, 13523), (258, 13556), (274, 13643), (280, 13667), (295, 13751), (305, 13835), (308, 13847), (312, 13868), (320, 13949), (375, 14024), (387, 14105), (396, 14153), (399, 14171), (402, 14183), (403, 14192), (407, 14228), (412, 14279), (421, 14336), (431, 14414), (433, 14423), (447, 14501), (449, 14516), (454, 14558), (459, 14612), (481, 14852), (490, 14927), (499, 15038), (510, 15257), (512, 15269), (519, 15371), (527, 15452), (528, 15461), (539, 15533), (547, 15563), (554, 15584), (570, 15704), (579, 15776), (580, 15794), (581, 15800),

Gene: TribbleTrouble_19 Start: 12006, Stop: 16166, Start Num: 13

Candidate Starts for TribbleTrouble_19:

(Start: 13 @12006 has 163 MA's), (22, 12075), (23, 12096), (25, 12102), (28, 12162), (52, 12327), (57, 12345), (61, 12366), (66, 12387), (74, 12411), (78, 12450), (86, 12513), (88, 12519), (89, 12531), (102, 12606), (122, 12699), (126, 12720), (132, 12759), (143, 12837), (151, 12882), (156, 12915), (160, 12939), (166, 12981), (186, 13113), (193, 13173), (196, 13194), (197, 13203), (214, 13296), (223, 13371), (234, 13416), (238, 13440), (242, 13461), (251, 13485), (257, 13509), (266, 13557), (274, 13599), (298, 13755), (305, 13812), (324, 13986), (328, 14016), (330, 14049), (353, 14187), (357, 14214), (362, 14247), (373, 14301), (375, 14319), (381, 14349), (392, 14430), (399, 14466), (409, 14541), (412, 14574), (419, 14619), (422, 14634), (431, 14715), (432, 14718), (445, 14787), (447, 14802), (448, 14808), (449, 14817), (459, 14913), (461, 14952), (471, 15030), (479, 15129), (481, 15153), (490, 15228), (516, 15654), (519, 15684), (520, 15693), (521, 15696), (528, 15774), (556, 15900), (563, 15960), (565, 15978), (577, 16056), (581, 16092), (583, 16107), (584, 16119), (590, 16158),

Gene: Trice_17 Start: 11327, Stop: 15460, Start Num: 13

Candidate Starts for Trice_17:

(10, 11288), (Start: 13 @11327 has 163 MA's), (22, 11396), (28, 11483), (35, 11561), (57, 11669), (61, 11690), (70, 11723), (89, 11855), (93, 11870), (94, 11876), (102, 11930), (108, 11960), (122, 12023), (126, 12044), (132, 12083), (143, 12161), (156, 12239), (160, 12263), (193, 12497), (209, 12578), (216, 12638), (223, 12695), (233, 12731), (238, 12764), (243, 12788), (261, 12854), (263, 12863), (274, 12923), (295, 13031), (300, 13076), (321, 13232), (329, 13343), (330, 13352), (331, 13364), (339, 13415), (343, 13433), (348, 13460), (353, 13490), (367, 13583), (375, 13622), (403, 13790), (409, 13844), (412, 13877), (420, 13922), (431, 14003), (432, 14006), (447, 14090), (448, 14096), (449, 14105), (454, 14147), (458, 14183), (459, 14201), (461, 14240), (468, 14300), (481, 14441), (488, 14501), (490, 14516), (512, 14858), (527, 15047), (528, 15056), (537, 15119), (581, 15395),

Gene: TruffulaTree_21 Start: 12076, Stop: 15912, Start Num: 13

Candidate Starts for TruffulaTree_21:

(Start: 13 @12076 has 163 MA's), (22, 12145), (28, 12232), (55, 12409), (61, 12436), (77, 12508), (78, 12520), (79, 12529), (89, 12601), (102, 12676), (120, 12760), (122, 12769), (126, 12790), (132, 12829), (143, 12907), (156, 12985), (169, 13075), (180, 13150), (193, 13243), (195, 13252), (196, 13264), (197, 13273), (243, 13534), (249, 13549), (258, 13582), (274, 13669), (280, 13693), (295, 13777), (305, 13861), (308, 13873), (312, 13894), (375, 14050), (387, 14131), (396, 14179), (399, 14197), (403, 14218), (407, 14254), (412, 14305), (421, 14362), (431, 14440), (433, 14449), (447, 14527), (454, 14584), (459, 14638), (481, 14878), (490, 14953), (499, 15064), (510, 15283), (512, 15295), (527, 15481), (528, 15490), (539, 15562), (547, 15592), (554, 15613), (570, 15733), (579, 15805), (580, 15823), (581, 15829),

Gene: Twitch_21 Start: 12116, Stop: 15949, Start Num: 13

Candidate Starts for Twitch_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (28, 12272), (35, 12347), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (136, 12905), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (449, 14582), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15518), (528, 15527), (539, 15599), (547, 15629), (554, 15650), (570, 15770), (579, 15842), (580, 15860), (581, 15866),

Gene: Unicorn_20 Start: 11123, Stop: 15124, Start Num: 14

Candidate Starts for Unicorn_20:

(Start: 14 @11123 has 38 MA's), (25, 11216), (31, 11321), (40, 11375), (43, 11393), (48, 11411), (53, 11435), (54, 11441), (60, 11468), (62, 11474), (64, 11486), (75, 11519), (87, 11615), (90, 11633), (91,

11636), (114, 11750), (116, 11765), (137, 11882), (153, 11978), (159, 12017), (164, 12038), (165, 12047), (176, 12107), (198, 12290), (199, 12296), (200, 12299), (211, 12353), (215, 12383), (223, 12443), (227, 12455), (229, 12461), (232, 12476), (236, 12497), (239, 12515), (272, 12653), (274, 12665), (279, 12686), (287, 12725), (307, 12779), (308, 12785), (320, 12887), (324, 12947), (330, 13010), (343, 13091), (346, 13106), (347, 13109), (353, 13148), (359, 13184), (360, 13199), (361, 13205), (366, 13232), (371, 13256), (383, 13331), (392, 13391), (403, 13448), (407, 13484), (412, 13535), (431, 13676), (432, 13679), (447, 13763), (451, 13790), (459, 13874), (461, 13913), (481, 14114), (490, 14189), (506, 14408), (511, 14522), (519, 14624), (520, 14633), (527, 14705), (539, 14789), (547, 14819), (553, 14840), (570, 14957), (579, 15032), (583, 15071), (584, 15083),

Gene: Urkel_21 Start: 12024, Stop: 15863, Start Num: 13

Candidate Starts for Urkel_21:

(Start: 13 @12024 has 163 MA's), (22, 12093), (28, 12180), (55, 12360), (61, 12387), (78, 12471), (79, 12480), (88, 12540), (89, 12552), (102, 12627), (113, 12678), (122, 12720), (126, 12741), (132, 12780), (143, 12858), (156, 12936), (160, 12960), (180, 13101), (193, 13194), (196, 13215), (197, 13224), (238, 13461), (243, 13485), (249, 13500), (258, 13533), (274, 13620), (291, 13707), (295, 13728), (305, 13812), (308, 13824), (312, 13845), (375, 14001), (387, 14082), (399, 14148), (403, 14169), (407, 14205), (412, 14256), (417, 14274), (421, 14313), (431, 14391), (447, 14478), (449, 14493), (454, 14535), (459, 14589), (481, 14829), (490, 14904), (499, 15015), (500, 15036), (501, 15057), (508, 15177), (519, 15351), (527, 15432), (528, 15441), (539, 15513), (547, 15543), (554, 15564), (570, 15684), (579, 15756), (580, 15774), (581, 15780),

Gene: Validus_21 Start: 11056, Stop: 15213, Start Num: 14

Candidate Starts for Validus_21:

(9, 11008), (Start: 14 @11056 has 38 MA's), (25, 11149), (26, 11161), (39, 11305), (40, 11308), (67, 11428), (81, 11515), (87, 11548), (98, 11623), (99, 11626), (114, 11692), (133, 11794), (137, 11836), (140, 11851), (141, 11860), (146, 11887), (152, 11917), (156, 11950), (164, 11992), (176, 12061), (198, 12247), (199, 12253), (208, 12289), (211, 12310), (213, 12322), (215, 12340), (223, 12400), (227, 12412), (229, 12418), (232, 12433), (235, 12451), (236, 12454), (242, 12487), (267, 12583), (274, 12622), (279, 12643), (285, 12673), (290, 12706), (302, 12790), (305, 12820), (308, 12832), (320, 12934), (326, 13012), (330, 13057), (332, 13081), (342, 13135), (343, 13138), (346, 13153), (347, 13156), (353, 13195), (357, 13222), (360, 13246), (361, 13252), (366, 13279), (375, 13327), (383, 13378), (386, 13396), (391, 13432), (392, 13438), (396, 13456), (401, 13483), (403, 13495), (409, 13549), (412, 13582), (422, 13642), (431, 13723), (432, 13726), (447, 13810), (449, 13825), (454, 13867), (461, 13960), (470, 14026), (481, 14161), (507, 14509), (520, 14701), (527, 14773), (528, 14782), (532, 14803), (534, 14845), (570, 15040), (572, 15052), (579, 15112), (581, 15136), (585, 15175),

Gene: Veliki_21 Start: 12116, Stop: 15952, Start Num: 13

Candidate Starts for Veliki_21:

(Start: 13 @12116 has 163 MA's), (22, 12185), (23, 12206), (28, 12272), (55, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (89, 12641), (102, 12716), (120, 12800), (122, 12809), (126, 12830), (132, 12869), (143, 12947), (156, 13025), (169, 13115), (180, 13190), (193, 13283), (195, 13292), (196, 13304), (197, 13313), (238, 13550), (249, 13589), (258, 13622), (274, 13709), (280, 13733), (295, 13817), (305, 13901), (308, 13913), (312, 13934), (375, 14090), (387, 14171), (396, 14219), (399, 14237), (403, 14258), (407, 14294), (412, 14345), (421, 14402), (431, 14480), (433, 14489), (447, 14567), (454, 14624), (459, 14678), (481, 14918), (490, 14993), (499, 15104), (510, 15323), (512, 15335), (527, 15521), (528, 15530), (539, 15602), (547, 15632), (554, 15653), (570, 15773), (579, 15845), (580, 15863), (581, 15869),

Gene: Wendigo_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Wendigo_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: Ximenita_21 Start: 11247, Stop: 15251, Start Num: 14

Candidate Starts for Ximenita_21:

(Start: 14 @11247 has 38 MA's), (25, 11340), (31, 11445), (40, 11499), (43, 11517), (53, 11559), (60, 11592), (62, 11598), (78, 11679), (87, 11739), (90, 11757), (91, 11760), (114, 11874), (116, 11889), (137, 12006), (142, 12033), (153, 12102), (164, 12162), (165, 12171), (166, 12183), (176, 12231), (198, 12414), (199, 12420), (200, 12423), (223, 12567), (227, 12579), (229, 12585), (232, 12600), (236, 12621), (239, 12639), (272, 12777), (274, 12789), (279, 12810), (287, 12849), (307, 12903), (308, 12909), (320, 13011), (324, 13071), (330, 13134), (342, 13212), (343, 13215), (346, 13230), (353, 13272), (357, 13299), (359, 13308), (360, 13323), (361, 13329), (366, 13356), (371, 13380), (373, 13386), (381, 13434), (383, 13455), (396, 13533), (399, 13551), (403, 13572), (407, 13608), (412, 13659), (431, 13800), (433, 13809), (447, 13887), (459, 13998), (460, 14010), (481, 14238), (490, 14313), (520, 14757), (527, 14829), (528, 14838), (539, 14913), (547, 14943), (553, 14964), (570, 15081), (579, 15156), (583, 15195), (584, 15207), (591, 15246),

Gene: YangYin_16 Start: 11787, Stop: 15824, Start Num: 14

Candidate Starts for YangYin_16:

(Start: 14 @11787 has 38 MA's), (24, 11880), (43, 12063), (45, 12072), (62, 12144), (72, 12180), (81, 12252), (83, 12258), (85, 12273), (87, 12285), (90, 12303), (97, 12348), (106, 12384), (109, 12399), (112, 12414), (114, 12420), (133, 12522), (137, 12564), (140, 12579), (146, 12615), (156, 12678), (159, 12699), (172, 12771), (176, 12789), (194, 12930), (198, 12972), (205, 13002), (206, 13005), (208, 13014), (210, 13023), (215, 13065), (226, 13134), (227, 13137), (229, 13143), (232, 13158), (236, 13179), (237, 13188), (261, 13284), (274, 13347), (280, 13371), (282, 13383), (283, 13386), (292, 13443), (297, 13476), (302, 13515), (308, 13557), (317, 13653), (321, 13662), (325, 13722), (326, 13737), (329, 13773), (341, 13857), (349, 13902), (352, 13917), (356, 13944), (371, 14028), (375, 14052), (383, 14103), (384, 14109), (404, 14241), (425, 14373), (435, 14457), (437, 14472), (450, 14538), (457, 14607), (462, 14688), (464, 14697), (475, 14790), (478, 14847), (480, 14880), (508, 15237), (521, 15426), (522, 15453), (527, 15495), (535, 15573), (564, 15732), (567, 15750), (569, 15765),

Gene: YoureAdopted_20 Start: 12049, Stop: 15885, Start Num: 13

Candidate Starts for YoureAdopted_20:

(Start: 13 @12049 has 163 MA's), (22, 12118), (23, 12139), (28, 12205), (55, 12382), (61, 12409), (77, 12481), (78, 12493), (79, 12502), (89, 12574), (102, 12649), (120, 12733), (122, 12742), (126, 12763), (132, 12802), (143, 12880), (156, 12958), (169, 13048), (180, 13123), (193, 13216), (195, 13225), (196, 13237), (197, 13246), (238, 13483), (249, 13522), (258, 13555), (274, 13642), (280, 13666), (295, 13750), (305, 13834), (308, 13846), (312, 13867), (375, 14023), (387, 14104), (396, 14152), (399, 14170), (403, 14191), (407, 14227), (412, 14278), (421, 14335), (431, 14413), (433, 14422), (447, 14500), (449, 14515), (454, 14557), (459, 14611), (481, 14851), (490, 14926), (499, 15037), (510, 15256), (512, 15268), (527, 15454), (528, 15463), (547, 15565), (554, 15586), (570, 15706), (579, 15778), (580, 15796), (581, 15802),

Gene: Yuna_21 Start: 11197, Stop: 15186, Start Num: 14

Candidate Starts for Yuna_21:

(Start: 14 @11197 has 38 MA's), (25, 11290), (41, 11458), (47, 11479), (54, 11515), (62, 11548), (63, 11551), (64, 11560), (72, 11584), (85, 11677), (87, 11689), (91, 11710), (131, 11926), (137, 11965), (140, 11980), (146, 12016), (155, 12076), (156, 12079), (164, 12121), (176, 12190), (198, 12376), (199, 12382), (200, 12385), (201, 12391), (208, 12418), (210, 12427), (211, 12439), (215, 12469), (223, 12529), (227, 12541), (229, 12547), (232, 12562), (235, 12580), (236, 12583), (239, 12601), (259, 12676), (272, 12739), (274, 12751), (279, 12772), (287, 12811), (304, 12856), (308, 12871), (324, 13033), (330, 13096), (333, 13123), (347, 13195), (353, 13234), (360, 13285), (362, 13294), (364, 13306), (369, 13336), (371, 13342), (375, 13366), (392, 13477), (396, 13495), (403, 13534), (412, 13621), (414, 13633), (431, 13762), (432, 13765), (447, 13849), (460, 13972), (481, 14200), (488, 14260), (490, 14275), (509, 14590), (520, 14722), (522, 14752), (526, 14791), (527, 14794), (530, 14812), (539, 14866), (547, 14896), (553, 14917), (570, 15028), (581, 15121),

Gene: Yunkel11_21 Start: 11016, Stop: 15143, Start Num: 14

Candidate Starts for Yunkel11_21:

(9, 10968), (Start: 14 @11016 has 38 MA's), (25, 11109), (36, 11241), (39, 11265), (45, 11295), (50, 11316), (53, 11328), (67, 11388), (81, 11475), (87, 11508), (90, 11526), (91, 11529), (104, 11601), (133, 11745), (137, 11787), (140, 11802), (146, 11838), (157, 11910), (176, 12012), (198, 12195), (204, 12222), (209, 12240), (210, 12246), (215, 12288), (227, 12360), (229, 12366), (232, 12381), (236, 12402), (239, 12420), (242, 12435), (256, 12483), (263, 12516), (267, 12531), (274, 12570), (279, 12591), (285, 12621), (310, 12789), (313, 12840), (330, 13005), (332, 13029), (343, 13086), (351, 13137), (357, 13170), (359, 13179), (371, 13251), (383, 13326), (386, 13344), (392, 13386), (396, 13404), (401, 13431), (403, 13443), (418, 13572), (422, 13590), (431, 13671), (432, 13674), (447, 13758), (453, 13812), (454, 13815), (461, 13908), (470, 13974), (481, 14109), (494, 14235), (519, 14631), (520, 14640), (527, 14712), (539, 14796), (570, 14964), (579, 15036), (581, 15060), (585, 15099),

Gene: Zabiza_21 Start: 12077, Stop: 15916, Start Num: 13

Candidate Starts for Zabiza_21:

(Start: 13 @12077 has 163 MA's), (22, 12146), (28, 12233), (55, 12410), (61, 12437), (77, 12509), (78, 12521), (79, 12530), (89, 12602), (102, 12677), (120, 12761), (122, 12770), (126, 12791), (132, 12830), (143, 12908), (156, 12986), (169, 13076), (180, 13151), (193, 13244), (195, 13253), (196, 13265), (197, 13274), (243, 13535), (249, 13550), (258, 13583), (274, 13670), (280, 13694), (295, 13778), (305, 13862), (308, 13874), (312, 13895), (375, 14051), (387, 14132), (396, 14180), (399, 14198), (403, 14219), (407, 14255), (412, 14306), (421, 14363), (431, 14441), (433, 14450), (447, 14528), (454, 14585), (459, 14639), (481, 14879), (490, 14954), (499, 15065), (510, 15284), (512, 15296), (527, 15485), (528, 15494), (539, 15566), (547, 15596), (554, 15617), (570, 15737), (579, 15809), (580, 15827), (581, 15833),

Gene: Zavala_21 Start: 12057, Stop: 15890, Start Num: 13

Candidate Starts for Zavala_21:

(Start: 13 @12057 has 163 MA's), (22, 12126), (28, 12213), (55, 12390), (61, 12417), (77, 12489), (78, 12501), (79, 12510), (89, 12582), (102, 12657), (120, 12741), (122, 12750), (126, 12771), (132, 12810), (143, 12888), (156, 12966), (169, 13056), (180, 13131), (193, 13224), (195, 13233), (196, 13245), (197, 13254), (238, 13491), (249, 13530), (258, 13563), (274, 13650), (280, 13674), (295, 13758), (305, 13842), (308, 13854), (312, 13875), (375, 14031), (396, 14160), (399, 14178), (403, 14199), (407, 14235), (412, 14286), (421, 14343), (431, 14421), (433, 14430), (447, 14508), (449, 14523), (454, 14565), (459, 14619), (481, 14859), (490, 14934), (499, 15045), (510, 15264), (512, 15276), (527, 15459), (528, 15468), (539, 15540), (547, 15570), (554, 15591), (570, 15711), (579, 15783), (580, 15801), (581, 15807),

Gene: ZoMa_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for ZoMa_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),

Gene: ZoeJ_17 Start: 10077, Stop: 13724, Start Num: 12

Candidate Starts for ZoeJ_17:

(Start: 12 @10077 has 10 MA's), (22, 10149), (65, 10383), (70, 10398), (88, 10515), (89, 10527), (102, 10602), (122, 10695), (143, 10833), (144, 10836), (150, 10875), (156, 10911), (160, 10935), (163, 10944), (164, 10956), (167, 10980), (169, 11001), (175, 11025), (176, 11031), (179, 11067), (180, 11076), (186, 11109), (188, 11121), (190, 11148), (222, 11331), (223, 11343), (225, 11349), (234, 11388), (238, 11412), (252, 11460), (264, 11472), (293, 11505), (322, 11736), (331, 11781), (344, 11811), (356, 11880), (363, 11907), (372, 11940), (393, 12027), (399, 12060), (403, 12081), (405, 12105), (410, 12135), (454, 12378), (461, 12471), (471, 12549), (481, 12672), (493, 12777), (515, 13188), (519, 13218), (520, 13227), (522, 13257), (570, 13554), (572, 13566), (581, 13647),

Gene: Zombie_16 Start: 11464, Stop: 15477, Start Num: 13

Candidate Starts for Zombie_16:

(Start: 13 @11464 has 163 MA's), (30, 11665), (51, 11779), (61, 11821), (69, 11851), (89, 11986), (92, 11998), (94, 12007), (129, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (148, 12322), (156, 12370), (177, 12502), (179, 12526), (190, 12607), (212, 12730), (222, 12814), (231, 12850), (238, 12895), (239, 12901), (265, 13009), (270, 13033), (274, 13054), (311, 13273), (325, 13423), (333, 13510), (352, 13618), (375, 13753), (392, 13864), (396, 13882), (402, 13912), (429, 14134), (435, 14158), (437, 14173), (441, 14194), (447, 14221), (451, 14248), (457, 14308), (464, 14398), (467, 14431), (475, 14494), (478, 14551), (480, 14584), (482, 14593), (521, 15097), (522, 15124), (525, 15154), (527, 15166), (528, 15175), (539, 15244), (557, 15325), (564, 15385), (567, 15403), (568, 15412),