

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 193689 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193689 has 271 members, 14 are drafts.

Phages represented in each track:

- Track 1 : 8UZL_19
- Track 2 : Muddy_19
- Track 3 : NoShow_16
- Track 4 : Maco6_17
- Track 5 : FF47_19
- Track 6 : PinkYoshi_16, Darionha_16, CLED96_16, Frosty24_16, ShaboiShabazz_16, Crespo_16, Gomashi_16, LouisV14_16, Jolene_16, BQuat_16, Jane_16, CassieYates_16, Camri_16, Angel_16, Halo_16, OctaviousRex_16, DMoney_16, ECartman_16, Kasen3_16, Sweets_16, Wendigo_16, Remy19_16, BPs_16, ZoMa_16, Gideon_16, Peeb_16, JorRay_16, Coleslaw_16, Avrafan_16, Jonghyun_16, GoldenAsh_16, Cherrybomb426_16, Sizemore_16, Schiebel_16, Plagueis_16, Phreak_16, Olga_16, Aroostook_16, Barkley26_16, Phish_16, Hope_16, Zombie_16, DNAIII_0016, Hotshotbaby7_16, Mowgli_16, Kareem_16, Chance64_16, BruceB_16, Marmie_16, Cedasite_16, Maliketh_16, TomBrady_16, Renaissance_16, Annihilator_16, Periodt_16, AzulaCat_16
- Track 7 : Paito_16
- Track 8 : Grizzly_16
- Track 9 : Taheera_16, Terror_16
- Track 10 : Rabbs_16, Sneeze_16
- Track 11 : Liefie_16
- Track 12 : Cambiare_17
- Track 13 : FlagStaff_16
- Track 14 : Avocado_16
- Track 15 : Pace1224_16
- Track 16 : MOOREtheMARYer_16
- Track 17 : Pinnie_17
- Track 18 : Lemuria_16
- Track 19 : Jolie2_16
- Track 20 : Mercurio_17
- Track 21 : Antsirabe_16
- Track 22 : Stargaze_16
- Track 23 : Piatt_21, Durfee_21, BaghaKamala_21, Boiii_21, Peel_21, Dalmuri_21, Topper_21, Inky_21, JAWS_21, Asayake_21, BGIlluviae_21, Capricorn_21, Jeckyll_21, CREW_21, Padfoot_21, Rosmarinus_21, Twitch_21, Blizzard_21, BEEST_21, BarrelRoll_21, Hyperbowlee_21, Jarvi_21, Spock_21, ShiaSurprise_21, Lunahalos_21, CaseJules_21

- Track 24 : LilPharaoh_17, Mdavu_17, Nutello_17, Amelie_17, SgtBeansprout_17, Enkosi_17, Torres_17, Biglebops_17
- Track 25 : Apocalypse_21
- Track 26 : Murucutumbu_21, Ageofdapage_21, Stinson_21, LaterM_21
- Track 27 : Slimphazie_21, Adephagia_21, Jayhawk_21, HedwigODU_21, ActinUp_21, Tachez_21, Zabiza_21, Atiba_21, Ramen_21, TruffulaTree_21, Rapunzel97_21
- Track 28 : CrimD_21
- Track 29 : Bella96_21
- Track 30 : McMater_21, Niklas_21, Dartin_21, Richo_21, Peanam_21
- Track 31 : YoureAdopted_20
- Track 32 : Devera_21, Dole_21, Illumine_21
- Track 33 : Joy99_21, MeaningOfLife_21, Geraldini_21
- Track 34 : Mynx_21, Pokerus_20
- Track 35 : Prithvi_21, LindNT_21, TreyKay_21
- Track 36 : Belladonna_21
- Track 37 : MarkPhew_21
- Track 38 : CheetoDust_21
- Track 39 : AlishaPH_21, Emerson_21, Padpat_21
- Track 40 : TaiwanKao_22
- Track 41 : Adonis_21
- Track 42 : Oscar_20
- Track 43 : Zavala_21
- Track 44 : Angelica_21, Deby_21, Sulley_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 : Beezoo_21
- Track 52 : Shaobing_21
- Track 53 : LeMond_20
- Track 54 : Scarlett_20
- Track 55 : Veliki_21
- Track 56 : LastHope_21
- Track 57 : TiniBug_21
- Track 58 : DrHayes_21, Urkel_21, SamuelLPlaqson_21
- Track 59 : KiSi_20
- Track 60 : Chris_20
- Track 61 : Tiri_21
- Track 62 : Efra2_21
- Track 63 : Homura_21
- Track 64 : QuincyRose_20
- Track 65 : Ganymede_22
- Track 66 : Megsy_21
- Track 67 : TingHuaYa_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 : DismalFunk_17, Marcoliusprime_17, DismalStressor_17
- Track 75 : Findley_17
- Track 76 : TM4_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 : ShedlockHolmes_20
- Track 85 : OmniCritical_22, Mitti_22, SamScheppers_20
- Track 86 : MissDaisy_22, Patt_22, Reptar3000_22
- Track 87 : Juliette_22, Ruthiejr_21
- Track 88 : Fionnbharth_22, Wintermute_22
- Track 89 : Chancellor_22
- Track 90 : JF1_22, Y2_22, Y10_22
- Track 91 : Cheetobro_22
- Track 92 : Eponine_22
- Track 93 : Malthus_22
- Track 94 : Slarp_22
- Track 95 : Taquito_20
- Track 96 : Omnicron_19
- Track 97 : Collard_19, InvictusManeo_19, Agent47_19
- Track 98 : Thyatira_19, Waterfoul_19
- Track 99 : Miryou_19
- Track 100 : Kratio_18
- Track 101 : Psycho_19
- Track 102 : Dadosky_19
- Track 103 : Feyre_19
- Track 104 : AlleyCat_19
- Track 105 : Larva_19
- Track 106 : OkiRoe_19
- Track 107 : SoSeph_19, Heftyboy_19
- Track 108 : Paola_19, Gengar_19, Guillsminger_19, Leston_19
- Track 109 : Rando14_19
- Track 110 : Edugator_18
- Track 111 : PhelpsODU_20, Unicorn_20
- Track 112 : DarthP_20, Hammy_20
- Track 113 : Krueger_20
- Track 114 : SirPhilip_20
- Track 115 : Amgine_19
- Track 116 : Ekdilam_18
- Track 117 : Cain_20, Bryler_20, Tierra_20, Phrank_20
- Track 118 : Shadow1_19
- Track 119 : Amohnition_20
- Track 120 : TClif_20
- Track 121 : Yuna_21
- Track 122 : Ximenita_21
- Track 123 : Fefferhead_20
- Track 124 : Sunflower1121_19
- Track 125 : Syra333_20
- Track 126 : Marshawn_22

- Track 127 : Ellie_18
- Track 128 : Aminay_19
- Track 129 : Boilgate_18

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

The start number called the most often in the published annotations is 15, it was called in 162 of the 257 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_21, Adephegia_21, Adonis_21, Ageofdapage_21, AlishaPH_21, Amelie_17, Amgine_19, Aminay_19, Amohnition_20, Anaya_22, Angel_16, Angelica_21, Annihilator_16, Apocalypse_21, Aroostook_16, Asayake_21, Atiba_21, Avrafan_16, AzulaCat_16, BEEST_21, BGIlluviae_21, BPs_16, BQuat_16, BaghaKamala_21, Barkley26_16, BarrelRoll_21, Beezoo_21, Bella96_21, Biglebops_17, Blizzard_21, Boiiii_21, BruceB_16, CLED96_16, CREW_21, Camri_16, Capricorn_21, CaseJules_21, CassieYates_16, Cedasite_16, Chance64_16, CheetoDust_21, Cherrybomb426_16, Coleslaw_16, Crespo_16, CrimD_21, DMoney_16, DNAIII_0016, Dalmuri_21, Darionha_16, DarthP_20, Deby_21, Devera_21, Dole_21, DrHayes_21, Durfee_21, ECartman_16, Ekdilam_18, Ellie_18, Emerson_21, Enkosi_17, Fefferhead_20, Frosty24_16, Ganymede_22, Geraldini_21, Gideon_16, GoldenAsh_16, Gomashi_16, Grizzly_16, Halo_16, Hammy_20, 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, Jolene_16, Jonghyun_16, JorRay_16, Joy99_21, Kareem_16, Kasen3_16, Keshu_20, LaterM_21, Liefie_16, LilPharaoh_17, LindNT_21, Llorens_21, LouisV14_16, Lunahalos_21, MacnCheese_21, Maliketh_16, Marmie_16, Mdavu_17, MeaningOfLife_21, Megsy_21, Mowgli_16, Murucutumbu_21, Mynx_21, Nikao_17, Nutello_17, OctaviousRex_16, Olga_16, Padfoot_21, Padpat_21, Paito_16, Peeb_16, Peel_21, Periodt_16, Pharb_20, Phish_16, Phreak_16, Piatt_21, PinkYoshi_16, Pixie_20, Plagueis_16, Pokerus_20, Prithvi_21, QuincyRose_20, Rabbs_16, Ramen_21, Rapunzel97_21, Remy19_16, Renaissance_16, Rosmarinus_21, 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, Terror_16, TiniBug_21, Tiri_21, TomBrady_16, Topper_21, Torres_17, TreyKay_21, TribleTrouble_19, 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:

- Belladonna_21,

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

- 8UZL_19, Agent47_19, AlleyCat_19, Antsirabe_16, Avocado_16, Boilgate_18, BoostSeason_17, Bryler_20, Cain_20, Cambiare_17, Chancellor_22, Cheetobro_22, Chris_20, Collard_19, Curiosium_22, Dadosky_19, Dartin_21, DismalFunk_17, DismalStressor_17, Edugator_18, Efra2_21, Eponine_22, FF47_19, Feyre_19, Findley_17, Fionnbharth_22, FlagStaff_16, Gengar_19, Guanica15_21, Guillsminger_19, Heftyboy_19, InvictusManeo_19, JF1_22, Jolie2_16, Juliette_22,

KiSi_20, Kratio_18, Krueger_20, Larva_19, LastHope_21, LeMond_20, Lemuria_16, Leston_19, MOOREtheMARYer_16, Maco6_17, Malthus_22, Marcoliusprime_17, MarkPhew_21, Marshawn_22, McMater_21, Mercurio_17, Milly_17, Miryou_19, MissDaisy_22, Mitti_22, Muddy_19, Mufasa_17, Nibb_20, Niklas_21, NoShow_16, OkiRoe_19, OmniCritical_22, Omnicron_19, Oscar_20, Pace1224_16, Paola_19, Patt_22, Peanam_21, PhelpsODU_20, Phrank_20, Pinnie_17, Psycho_19, Rando14_19, Reptar3000_22, Richo_21, Ruthiejr_21, SamScheppers_20, Scarlett_20, Shadow1_19, Shaobing_21, SirPhilip_20, Slarp_22, SoSeph_19, Stargaze_16, Strobilo_17, Sunflower1121_19, Syra333_20, TClif_20, TM4_17, Taquito_20, Thyatira_19, Tierra_20, TingHuaYa_21, Unicorn_20, Validus_21, Waterfoul_19, Wintermute_22, Ximenita_21, Y10_22, Y2_22, Yuna_21, Yunkel11_21, ZoeJ_17,

Summary by start number:

Start 5:

- Found in 1 of 271 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 257
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_16 (AB),

Start 12:

- Found in 3 of 271 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 257
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Psycho_19 (K5),

Start 14:

- Found in 32 of 271 (11.8%) of genes in pham
- Manual Annotations of this start: 31 of 257
- Called 96.9% of time when present
- Phage (with cluster) where this start called: Agent47_19 (K5), AlleyCat_19 (K5), BoostSeason_17 (K2), Collard_19 (K5), Dadosky_19 (K5), DismalFunk_17 (K2), DismalStressor_17 (K2), Edugator_18 (K5), Feyre_19 (K5), Findley_17 (K2), Gengar_19 (K5), Guillsminger_19 (K5), Heftyboy_19 (K5), InvictusManeo_19 (K5), Kratio_18 (K5), Larva_19 (K5), Leston_19 (K5), Marcoliusprime_17 (K2), Milly_17 (K2), Miryou_19 (K5), Mufasa_17 (K2), OkiRoe_19 (K5), Omnicron_19 (K5), Paola_19 (K5), Rando14_19 (K5), SoSeph_19 (K5), Strobilo_17 (K2), TM4_17 (K2), Thyatira_19 (K5), Waterfoul_19 (K5), ZoeJ_17 (K2),

Start 15:

- Found in 168 of 271 (62.0%) of genes in pham
- Manual Annotations of this start: 162 of 257
- Called 99.4% of time when present
- Phage (with cluster) where this start called: ActinUp_21 (K1), Adephegia_21 (K1), Adonis_21 (K1), Ageofdapage_21 (K1), AlishaPH_21 (K1), Amelie_17 (K1), Amgine_19 (K6), Aminay_19 (K7), Amohnition_20 (K6), Anaya_22 (K1), Angel_16 (G1), Angelica_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), BGlluviae_21 (K1), BPs_16 (G1), BQuat_16 (G1), BaghaKamala_21 (K1), Barkley26_16 (G1), BarrelRoll_21 (K1), Beezoo_21 (K1), Bella96_21 (K1), Binglebops_17 (K1), Blizzard_21 (K1), Boiii_21 (K1), BruceB_16 (G1), CLED96_16 (G1), CREW_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), Coleslaw_16 (G1), Crespo_16 (G1), CrimD_21 (K1), DMoney_16 (G1), DNAIII_0016 (G1), Dalmuri_21 (K1), Darionha_16 (G1), DarthP_20 (K6), Deby_21 (K1), Devera_21 (K1), Dole_21 (K1), DrHayes_21 (K1), Durfee_21 (K1), ECartman_16 (G1), Ekdilam_18 (K6), Ellie_18 (K6), Emerson_21 (K1), Enkosi_17 (K1), Fefferhead_20 (K6), Frosty24_16 (G1), Ganymede_22 (K1), Geraldini_21 (K1), Gideon_16 (G1), GoldenAsh_16 (G1), Gomashi_16 (G1), Grizzly_16 (G1), Halo_16 (G1), Hammy_20 (K6), 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), Jolene_16 (G1), Jonghyun_16 (G1), JorRay_16 (G1), Joy99_21 (K1), Kareem_16 (G1), Kasen3_16 (G1), Keshu_20 (K3), LaterM_21 (K1), Liefie_16 (G1), LilPharaoh_17 (K1), LindNT_21 (K1), Llorens_21 (K1), LouisV14_16 (G1), Lunahalos_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), 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), Phreak_16 (G1), Piatt_21 (K1), PinkYoshi_16 (G1), Pixie_20 (K3), Plagueis_16 (G1), Pokerus_20 (K1), Prithvi_21 (K1), QuincyRose_20 (K1), Rabbs_16 (G1), Ramen_21 (K1), Rapunzel97_21 (K1), Remy19_16 (G1), Renaissance_16 (G1), Rosmarinus_21 (K1), SamuelIPlaqson_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), Terror_16 (G1), TiniBug_21 (K1), Tiri_21 (K1), TomBrady_16 (G1), Topper_21 (K1), Torres_17 (K1), TreyKay_21 (K1), TribbleTrouble_19 (K3), 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 16:

- Found in 66 of 271 (24.4%) of genes in pham
- Manual Annotations of this start: 58 of 257
- Called 98.5% of time when present
- Phage (with cluster) where this start called: Antsirabe_16 (G5), Avocado_16 (G2), Bryler_20 (K6), Cain_20 (K6), Cambiare_17 (G2), Chancellor_22 (K4), Cheetobro_22 (K4), Chris_20 (K1), Curiosium_22 (K1), Dartin_21 (K1), Efra2_21 (K1), Eponine_22 (K4), Fionnbharth_22 (K4), FlagStaff_16 (G2), Guanica15_21 (K1), JF1_22 (K4), Jolie2_16 (G4), Juliette_22 (K4), KiSi_20 (K1), Krueger_20 (K6), LastHope_21 (K1), LeMond_20 (K1), Lemuria_16 (G4), MOOREtheMARYer_16 (G3), Malthus_22 (K4), MarkPhew_21 (K1), Marshawn_22 (K6), McMater_21 (K1), Mercurio_17 (G4), MissDaisy_22 (K4), Mitti_22 (K4), Nibb_20 (K1), Niklas_21 (K1), OmniCritical_22 (K4), Oscar_20 (K1), Pace1224_16 (G2), Patt_22 (K4), Peanam_21 (K1), PhelpsODU_20 (K6), Phrank_20 (K6), Pinnie_17 (G3), Reptar3000_22 (K4), Richo_21 (K1), Ruthiejr_21 (K4), SamScheppers_20 (K4), Scarlett_20 (K1), Shadow1_19 (K6), Shaobing_21 (K1), SirPhilip_20 (K6), Slarp_22 (K4), Stargaze_16 (G5), Sunflower1121_19 (K6), Syra333_20 (K6), TClif_20 (K6), Taquito_20 (K4), Tierra_20 (K6), TingHuaYa_21 (K1), Unicorn_20 (K6), Validus_21 (K1), Wintermute_22 (K4), Ximenita_21 (K6), Y10_22 (K4), Y2_22 (K4), Yuna_21 (K6), Yunkel11_21 (K1),

Start 23:

- Found in 114 of 271 (42.1%) of genes in pham
- Manual Annotations of this start: 1 of 257
- Called 0.9% of time when present
- Phage (with cluster) where this start called: Belladonna_21 (K1),

Start 24:

- Found in 27 of 271 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 257
- Called 3.7% of time when present
- Phage (with cluster) where this start called: Boilgate_18 (K8),

Start 28:

- Found in 5 of 271 (1.8%) of genes in pham
- Manual Annotations of this start: 2 of 257
- Called 80.0% of time when present
- Phage (with cluster) where this start called: 8UZL_19 (AB), FF47_19 (AB), Maco6_17 (AB), Muddy_19 (AB),

Summary by clusters:

There are 14 clusters represented in this pham: G5, G4, G3, G2, G1, K3, K2, K1, AB, K7, K6, K5, K4, K8,

Info for manual annotations of cluster AB:

- Start number 5 was manually annotated 1 time for cluster AB.
- Start number 28 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster G1:

- Start number 15 was manually annotated 60 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 16 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 16 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 16 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 16 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster K1:

- Start number 15 was manually annotated 86 times for cluster K1.
- Start number 16 was manually annotated 16 times for cluster K1.
- Start number 23 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K2:

- Start number 14 was manually annotated 10 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 15 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 16 was manually annotated 19 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 12 was manually annotated 1 time for cluster K5.
- Start number 14 was manually annotated 21 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 15 was manually annotated 7 times for cluster K6.
- Start number 16 was manually annotated 15 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 15 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 24 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: 8UZL_19 Start: 11439, Stop: 14888, Start Num: 28

Candidate Starts for 8UZL_19:

(Start: 28 @11439 has 2 MA's), (30, 11454), (34, 11502), (38, 11505), (45, 11550), (82, 11673), (143, 12000), (147, 12012), (150, 12033), (163, 12117), (170, 12171), (172, 12180), (181, 12234), (182, 12243), (187, 12267), (188, 12276), (193, 12318), (204, 12363), (206, 12375), (209, 12396), (214, 12420), (225, 12474), (239, 12528), (244, 12549), (246, 12561), (250, 12585), (251, 12594), (269, 12672), (336, 12798), (344, 12840), (367, 13008), (368, 13014), (377, 13059), (403, 13182), (421, 13260), (431, 13293), (435, 13320), (438, 13332), (458, 13440), (459, 13449), (486, 13542), (495, 13572), (505, 13608), (515, 13638), (521, 13656), (528, 13683), (530, 13686), (548, 13740), (549, 13743), (567, 13833), (578, 13881), (580, 13896), (587, 13914), (591, 13929), (599, 13989), (605, 14022), (609, 14031), (612, 14040), (622, 14076), (626, 14091), (658, 14286), (675, 14481), (685, 14577), (688, 14595), (694, 14637), (695, 14643), (703, 14670), (722, 14772), (724, 14781), (731, 14820),

Gene: ActinUp_21 Start: 12079, Stop: 15918, Start Num: 15

Candidate Starts for ActinUp_21:

(Start: 15 @12079 has 162 MA's), (Start: 23 @12148 has 1 MA's), (31, 12235), (59, 12412), (67, 12439), (84, 12511), (85, 12523), (87, 12532), (99, 12604), (110, 12679), (129, 12763), (131, 12772), (134, 12793), (142, 12832), (158, 12910), (169, 12988), (184, 13078), (196, 13153), (214, 13246), (216, 13255), (218, 13267), (220, 13276), (272, 13537), (276, 13552), (282, 13585), (303, 13672), (309, 13696), (324, 13780), (339, 13864), (342, 13876), (346, 13897), (401, 14053), (440, 14134), (451, 14182), (454, 14200), (457, 14221), (464, 14257), (476, 14308), (487, 14365), (503, 14443), (506, 14452), (527, 14530), (540, 14587), (556, 14641), (602, 14881), (625, 14956), (651, 15067), (664, 15286), (666, 15298), (684, 15487), (685, 15496), (696, 15568), (705, 15598), (709, 15619), (727, 15739), (739, 15811), (742, 15829), (743, 15835),

Gene: Adephagia_21 Start: 12079, Stop: 15915, Start Num: 15

Candidate Starts for Adephagia_21:

(Start: 15 @12079 has 162 MA's), (Start: 23 @12148 has 1 MA's), (31, 12235), (59, 12412), (67, 12439), (84, 12511), (85, 12523), (87, 12532), (99, 12604), (110, 12679), (129, 12763), (131, 12772), (134, 12793), (142, 12832), (158, 12910), (169, 12988), (184, 13078), (196, 13153), (214, 13246), (216, 13255), (218, 13267), (220, 13276), (272, 13537), (276, 13552), (282, 13585), (303, 13672),

(309, 13696), (324, 13780), (339, 13864), (342, 13876), (346, 13897), (401, 14053), (440, 14134), (451, 14182), (454, 14200), (457, 14221), (464, 14257), (476, 14308), (487, 14365), (503, 14443), (506, 14452), (527, 14530), (540, 14587), (556, 14641), (602, 14881), (625, 14956), (651, 15067), (664, 15286), (666, 15298), (684, 15484), (685, 15493), (696, 15565), (705, 15595), (709, 15616), (727, 15736), (739, 15808), (742, 15826), (743, 15832),

Gene: Adonis_21 Start: 12088, Stop: 15921, Start Num: 15

Candidate Starts for Adonis_21:

(3, 11869), (10, 12049), (Start: 15 @12088 has 162 MA's), (Start: 23 @12157 has 1 MA's), (31, 12244), (59, 12421), (67, 12448), (85, 12532), (87, 12541), (99, 12613), (110, 12688), (129, 12772), (131, 12781), (134, 12802), (142, 12841), (158, 12919), (169, 12997), (184, 13087), (196, 13162), (214, 13255), (216, 13264), (218, 13276), (220, 13285), (256, 13468), (266, 13522), (276, 13561), (282, 13594), (303, 13681), (309, 13705), (324, 13789), (339, 13873), (342, 13885), (346, 13906), (401, 14062), (440, 14143), (451, 14191), (454, 14209), (457, 14230), (464, 14266), (476, 14317), (487, 14374), (503, 14452), (506, 14461), (527, 14539), (540, 14596), (556, 14650), (602, 14890), (625, 14965), (651, 15076), (664, 15295), (666, 15307), (684, 15490), (685, 15499), (705, 15601), (709, 15622), (727, 15742), (739, 15814), (742, 15832), (743, 15838),

Gene: Agent47_19 Start: 12236, Stop: 16342, Start Num: 14

Candidate Starts for Agent47_19:

(Start: 14 @12236 has 31 MA's), (Start: 24 @12329 has 1 MA's), (32, 12407), (33, 12431), (43, 12491), (62, 12575), (65, 12587), (87, 12689), (97, 12749), (99, 12761), (103, 12782), (110, 12836), (122, 12884), (131, 12929), (134, 12950), (158, 13067), (169, 13145), (174, 13169), (184, 13235), (196, 13310), (214, 13403), (220, 13433), (253, 13607), (256, 13616), (262, 13646), (266, 13670), (271, 13691), (284, 13751), (303, 13829), (305, 13838), (321, 13916), (332, 13982), (340, 14024), (342, 14033), (349, 14117), (355, 14138), (357, 14171), (370, 14237), (374, 14258), (384, 14312), (385, 14321), (389, 14339), (393, 14357), (394, 14366), (401, 14396), (407, 14432), (419, 14486), (427, 14522), (429, 14528), (430, 14546), (449, 14651), (461, 14717), (503, 14912), (512, 14942), (522, 14975), (535, 15026), (538, 15047), (542, 15062), (543, 15068), (559, 15152), (573, 15200), (583, 15239), (594, 15299), (601, 15332), (606, 15353), (614, 15377), (621, 15407), (642, 15473), (653, 15545), (676, 15860), (677, 15869), (678, 15872), (680, 15914), (684, 15941), (689, 15971), (696, 16022), (700, 16040), (716, 16106), (722, 16154), (727, 16178), (729, 16190), (744, 16271), (747, 16295), (751, 16334),

Gene: Ageofdapage_21 Start: 12015, Stop: 15848, Start Num: 15

Candidate Starts for Ageofdapage_21:

(Start: 15 @12015 has 162 MA's), (Start: 23 @12084 has 1 MA's), (31, 12171), (59, 12351), (67, 12378), (85, 12462), (87, 12471), (97, 12531), (99, 12543), (110, 12618), (119, 12660), (129, 12702), (131, 12711), (134, 12732), (142, 12771), (158, 12849), (169, 12927), (196, 13092), (214, 13185), (218, 13206), (220, 13215), (266, 13452), (272, 13476), (276, 13491), (282, 13524), (303, 13611), (324, 13719), (339, 13803), (342, 13815), (346, 13836), (354, 13917), (401, 13992), (440, 14073), (442, 14082), (451, 14121), (454, 14139), (457, 14160), (464, 14196), (476, 14247), (487, 14304), (503, 14382), (506, 14391), (527, 14469), (532, 14484), (540, 14526), (556, 14580), (602, 14820), (625, 14895), (651, 15006), (664, 15225), (676, 15339), (684, 15420), (685, 15429), (696, 15501), (705, 15531), (709, 15552), (727, 15669), (739, 15741), (743, 15765),

Gene: AlishaPH_21 Start: 12075, Stop: 15908, Start Num: 15

Candidate Starts for AlishaPH_21:

(Start: 15 @12075 has 162 MA's), (Start: 23 @12144 has 1 MA's), (31, 12231), (41, 12306), (59, 12408), (67, 12435), (84, 12507), (85, 12519), (87, 12528), (99, 12600), (110, 12675), (129, 12759), (131, 12768), (134, 12789), (142, 12828), (158, 12906), (169, 12984), (184, 13074), (196, 13149), (214, 13242), (216, 13251), (218, 13263), (220, 13272), (266, 13509), (276, 13548), (282, 13581), (303, 13668), (309, 13692), (324, 13776), (339, 13860), (342, 13872), (346, 13893), (401, 14049),

(440, 14130), (451, 14178), (454, 14196), (457, 14217), (464, 14253), (476, 14304), (487, 14361), (503, 14439), (506, 14448), (527, 14526), (532, 14541), (540, 14583), (556, 14637), (602, 14877), (625, 14952), (651, 15063), (664, 15282), (666, 15294), (684, 15477), (685, 15486), (696, 15558), (705, 15588), (709, 15609), (727, 15729), (739, 15801), (742, 15819), (743, 15825),

Gene: AlleyCat_19 Start: 12112, Stop: 16224, Start Num: 14

Candidate Starts for AlleyCat_19:

(Start: 14 @12112 has 31 MA's), (Start: 24 @12205 has 1 MA's), (32, 12283), (33, 12307), (43, 12367), (62, 12451), (87, 12565), (97, 12625), (99, 12637), (103, 12658), (110, 12712), (122, 12760), (131, 12805), (134, 12826), (158, 12943), (169, 13021), (174, 13045), (180, 13087), (184, 13111), (196, 13186), (214, 13279), (220, 13309), (253, 13483), (262, 13522), (266, 13546), (271, 13567), (284, 13627), (303, 13705), (305, 13714), (321, 13792), (332, 13858), (340, 13900), (342, 13909), (349, 13993), (355, 14014), (357, 14047), (360, 14068), (370, 14113), (374, 14134), (384, 14188), (385, 14197), (389, 14215), (394, 14242), (401, 14272), (407, 14308), (427, 14398), (429, 14404), (430, 14422), (449, 14527), (461, 14593), (503, 14788), (512, 14818), (522, 14851), (535, 14902), (538, 14923), (542, 14938), (543, 14944), (559, 15028), (573, 15076), (583, 15115), (594, 15175), (601, 15208), (606, 15229), (614, 15253), (621, 15283), (642, 15349), (653, 15421), (676, 15736), (677, 15745), (678, 15748), (679, 15775), (680, 15790), (682, 15805), (684, 15817), (689, 15847), (696, 15901), (700, 15919), (716, 15988), (722, 16036), (727, 16060), (729, 16072), (731, 16081), (744, 16153), (747, 16177), (751, 16216),

Gene: Amelie_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Amelie_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (231, 12578), (241, 12638), (251, 12695), (261, 12731), (266, 12764), (272, 12788), (287, 12854), (290, 12863), (303, 12923), (324, 13031), (332, 13076), (355, 13232), (372, 13343), (374, 13352), (376, 13364), (385, 13415), (389, 13433), (394, 13460), (401, 13490), (420, 13583), (429, 13622), (457, 13790), (469, 13844), (476, 13877), (485, 13922), (503, 14003), (504, 14006), (527, 14090), (530, 14096), (532, 14105), (540, 14147), (553, 14183), (556, 14201), (559, 14240), (574, 14300), (602, 14441), (621, 14501), (625, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: Amgine_19 Start: 11863, Stop: 16011, Start Num: 15

Candidate Starts for Amgine_19:

(Start: 15 @11863 has 162 MA's), (Start: 23 @11932 has 1 MA's), (41, 12094), (59, 12196), (62, 12202), (67, 12223), (97, 12376), (99, 12388), (110, 12463), (131, 12556), (134, 12577), (142, 12616), (158, 12694), (169, 12772), (174, 12796), (182, 12850), (184, 12862), (196, 12937), (214, 13030), (231, 13111), (242, 13174), (251, 13228), (258, 13249), (260, 13261), (266, 13297), (271, 13318), (278, 13345), (282, 13369), (288, 13390), (293, 13411), (303, 13456), (323, 13582), (332, 13630), (344, 13690), (345, 13696), (355, 13786), (372, 13897), (382, 13948), (383, 13954), (393, 14005), (401, 14044), (404, 14065), (429, 14176), (438, 14236), (443, 14269), (446, 14287), (451, 14305), (454, 14323), (456, 14335), (464, 14380), (476, 14431), (483, 14479), (503, 14557), (527, 14644), (530, 14650), (544, 14716), (547, 14719), (559, 14794), (576, 14860), (602, 14995), (621, 15055), (625, 15070), (628, 15076), (677, 15526), (684, 15598), (685, 15607), (699, 15694), (727, 15847), (743, 15946), (747, 15973), (748, 15985),

Gene: Aminay_19 Start: 11993, Stop: 16294, Start Num: 15

Candidate Starts for Aminay_19:

(Start: 15 @11993 has 162 MA's), (17, 12002), (22, 12041), (Start: 24 @12083 has 1 MA's), (31, 12149), (35, 12194), (57, 12308), (68, 12356), (77, 12395), (78, 12398), (85, 12434), (97, 12503), (99, 12515), (101, 12530), (103, 12536), (131, 12683), (134, 12704), (142, 12743), (144, 12746), (158,

12821), (165, 12866), (169, 12899), (174, 12923), (184, 12989), (185, 12992), (188, 13010), (190, 13019), (194, 13052), (200, 13076), (204, 13097), (226, 13214), (252, 13355), (253, 13358), (256, 13367), (266, 13421), (267, 13427), (275, 13457), (281, 13490), (288, 13514), (295, 13541), (303, 13580), (306, 13595), (308, 13601), (314, 13628), (321, 13688), (323, 13706), (330, 13736), (333, 13757), (342, 13805), (343, 13808), (344, 13814), (346, 13826), (353, 13904), (374, 14030), (386, 14099), (390, 14117), (396, 14150), (397, 14153), (402, 14180), (416, 14234), (429, 14288), (434, 14327), (438, 14348), (441, 14372), (451, 14420), (461, 14480), (462, 14489), (468, 14546), (472, 14579), (474, 14588), (480, 14630), (488, 14696), (503, 14777), (506, 14786), (559, 14993), (602, 15194), (625, 15269), (634, 15299), (657, 15485), (677, 15749), (680, 15794), (684, 15821), (700, 15947), (706, 15965), (709, 15986), (715, 16043), (716, 16046), (726, 16118), (744, 16220), (747, 16244), (751, 16283),

Gene: Amohnition_20 Start: 12196, Stop: 16386, Start Num: 15

Candidate Starts for Amohnition_20:

(9, 12151), (Start: 15 @12196 has 162 MA's), (Start: 23 @12265 has 1 MA's), (31, 12352), (41, 12427), (57, 12514), (58, 12517), (74, 12589), (85, 12640), (87, 12649), (97, 12709), (99, 12721), (103, 12742), (110, 12796), (116, 12826), (131, 12889), (134, 12910), (142, 12949), (158, 13027), (169, 13105), (174, 13129), (184, 13195), (195, 13261), (204, 13303), (210, 13342), (212, 13354), (218, 13384), (220, 13393), (242, 13507), (245, 13522), (256, 13576), (262, 13606), (266, 13630), (271, 13651), (281, 13699), (293, 13744), (294, 13747), (303, 13789), (308, 13810), (318, 13858), (323, 13915), (326, 13930), (333, 13966), (335, 13978), (344, 14023), (345, 14029), (355, 14119), (393, 14338), (401, 14377), (404, 14398), (424, 14485), (429, 14509), (432, 14536), (433, 14539), (438, 14569), (446, 14620), (454, 14656), (476, 14764), (503, 14899), (504, 14902), (524, 14968), (526, 14974), (535, 15013), (551, 15085), (552, 15091), (556, 15112), (572, 15196), (577, 15226), (581, 15247), (584, 15259), (598, 15340), (603, 15373), (607, 15382), (610, 15388), (621, 15430), (635, 15481), (636, 15487), (664, 15778), (676, 15892), (677, 15901), (678, 15904), (684, 15973), (709, 16108), (718, 16177), (727, 16225), (743, 16321), (748, 16360),

Gene: Anaya_22 Start: 12098, Stop: 15934, Start Num: 15

Candidate Starts for Anaya_22:

(Start: 15 @12098 has 162 MA's), (Start: 23 @12167 has 1 MA's), (31, 12254), (59, 12431), (67, 12458), (84, 12530), (85, 12542), (87, 12551), (99, 12623), (110, 12698), (116, 12728), (129, 12782), (131, 12791), (134, 12812), (142, 12851), (158, 12929), (164, 12971), (169, 13007), (174, 13031), (184, 13097), (196, 13172), (214, 13265), (216, 13274), (218, 13286), (220, 13295), (266, 13532), (272, 13556), (276, 13571), (282, 13604), (303, 13691), (309, 13715), (324, 13799), (339, 13883), (342, 13895), (346, 13916), (401, 14072), (440, 14153), (454, 14219), (457, 14240), (464, 14276), (476, 14327), (487, 14384), (503, 14462), (506, 14471), (527, 14549), (540, 14606), (556, 14660), (602, 14900), (625, 14975), (628, 14981), (651, 15086), (664, 15305), (684, 15503), (685, 15512), (705, 15614), (709, 15635), (719, 15710), (727, 15755), (739, 15827), (742, 15845), (743, 15851),

Gene: Angel_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Angel_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Angelica_21 Start: 12050, Stop: 15883, Start Num: 15

Candidate Starts for Angelica_21:

(Start: 15 @12050 has 162 MA's), (Start: 23 @12119 has 1 MA's), (31, 12206), (59, 12383), (67, 12410), (85, 12494), (87, 12503), (99, 12575), (110, 12650), (129, 12734), (131, 12743), (134, 12764), (142, 12803), (158, 12881), (169, 12959), (184, 13049), (196, 13124), (214, 13217), (218, 13238), (220, 13247), (266, 13484), (276, 13523), (282, 13556), (303, 13643), (309, 13667), (324, 13751), (339, 13835), (342, 13847), (346, 13868), (401, 14024), (440, 14105), (451, 14153), (454, 14171), (457, 14192), (464, 14228), (476, 14279), (487, 14336), (503, 14414), (506, 14423), (527, 14501), (532, 14516), (540, 14558), (556, 14612), (602, 14852), (625, 14927), (651, 15038), (664, 15257), (666, 15269), (684, 15452), (685, 15461), (705, 15563), (709, 15584), (727, 15704), (739, 15776), (742, 15794), (743, 15800),

Gene: Annihilator_16 Start: 11455, Stop: 15468, Start Num: 15

Candidate Starts for Annihilator_16:

(Start: 15 @11455 has 162 MA's), (35, 11656), (57, 11770), (67, 11812), (73, 11842), (99, 11977), (100, 11989), (103, 11998), (139, 12187), (142, 12205), (144, 12208), (149, 12229), (151, 12241), (162, 12313), (169, 12361), (192, 12493), (195, 12517), (210, 12598), (236, 12721), (249, 12805), (259, 12841), (266, 12886), (267, 12892), (293, 13000), (298, 13024), (303, 13045), (345, 13264), (363, 13414), (379, 13501), (400, 13609), (429, 13744), (446, 13855), (451, 13873), (456, 13903), (501, 14125), (509, 14149), (513, 14164), (518, 14185), (527, 14212), (535, 14239), (550, 14299), (567, 14389), (573, 14422), (588, 14485), (596, 14542), (602, 14575), (605, 14584), (678, 15088), (679, 15115), (682, 15145), (684, 15157), (685, 15166), (709, 15235), (728, 15316), (741, 15376), (743, 15394), (745, 15403),

Gene: Antsirabe_16 Start: 11833, Stop: 15810, Start Num: 16

Candidate Starts for Antsirabe_16:

(Start: 16 @11833 has 58 MA's), (25, 11926), (40, 12046), (50, 12109), (55, 12127), (70, 12190), (80, 12226), (91, 12298), (93, 12304), (98, 12331), (101, 12349), (108, 12394), (116, 12430), (120, 12445), (146, 12568), (152, 12610), (155, 12625), (161, 12661), (169, 12724), (173, 12745), (187, 12817), (190, 12835), (215, 12976), (222, 13018), (230, 13048), (231, 13051), (233, 13060), (235, 13069), (240, 13111), (255, 13183), (257, 13189), (260, 13204), (263, 13222), (264, 13225), (271, 13258), (278, 13285), (289, 13330), (303, 13393), (309, 13417), (312, 13429), (313, 13432), (334, 13561), (342, 13603), (343, 13606), (355, 13708), (364, 13768), (372, 13819), (387, 13903), (401, 13966), (412, 14023), (424, 14074), (427, 14092), (429, 14098), (436, 14149), (443, 14191), (461, 14287), (490, 14410), (494, 14428), (508, 14494), (510, 14509), (530, 14575), (541, 14629), (545, 14644), (560, 14725), (562, 14734), (585, 14827), (592, 14881), (593, 14884), (600, 14917), (623, 14992), (678, 15454), (679, 15481), (684, 15523), (696, 15610), (697, 15613), (702, 15631), (704, 15634), (723, 15718), (725, 15736),

Gene: Apocalypse_21 Start: 12053, Stop: 15886, Start Num: 15

Candidate Starts for Apocalypse_21:

(Start: 15 @12053 has 162 MA's), (Start: 23 @12122 has 1 MA's), (31, 12209), (59, 12386), (67, 12413), (85, 12497), (87, 12506), (99, 12578), (110, 12653), (129, 12737), (131, 12746), (134, 12767), (142, 12806), (158, 12884), (169, 12962), (174, 12986), (184, 13052), (196, 13127), (214, 13220), (216, 13229), (218, 13241), (220, 13250), (266, 13487), (276, 13526), (282, 13559), (303, 13646), (309, 13670), (324, 13754), (339, 13838), (342, 13850), (346, 13871), (401, 14027), (440, 14108), (445, 14132), (451, 14156), (454, 14174), (457, 14195), (464, 14231), (476, 14282), (487, 14339), (503, 14417), (506, 14426), (527, 14504), (532, 14519), (540, 14561), (556, 14615), (602, 14855), (625, 14930), (651, 15041), (664, 15260), (666, 15272), (684, 15455), (685, 15464), (696, 15536), (705, 15566), (709, 15587), (727, 15707), (739, 15779), (742, 15797), (743, 15803),

Gene: Aroostook_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Aroostook_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Asayake_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Asayake_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Atiba_21 Start: 12042, Stop: 15878, Start Num: 15

Candidate Starts for Atiba_21:

(Start: 15 @12042 has 162 MA's), (Start: 23 @12111 has 1 MA's), (31, 12198), (59, 12375), (67, 12402), (84, 12474), (85, 12486), (87, 12495), (99, 12567), (110, 12642), (129, 12726), (131, 12735), (134, 12756), (142, 12795), (158, 12873), (169, 12951), (184, 13041), (196, 13116), (214, 13209), (216, 13218), (218, 13230), (220, 13239), (272, 13500), (276, 13515), (282, 13548), (303, 13635), (309, 13659), (324, 13743), (339, 13827), (342, 13839), (346, 13860), (401, 14016), (440, 14097), (451, 14145), (454, 14163), (457, 14184), (464, 14220), (476, 14271), (487, 14328), (503, 14406), (506, 14415), (527, 14493), (540, 14550), (556, 14604), (602, 14844), (625, 14919), (651, 15030), (664, 15249), (666, 15261), (684, 15447), (685, 15456), (696, 15528), (705, 15558), (709, 15579), (727, 15699), (739, 15771), (742, 15789), (743, 15795),

Gene: Avocado_16 Start: 11691, Stop: 15731, Start Num: 16

Candidate Starts for Avocado_16:

(Start: 16 @11691 has 58 MA's), (25, 11784), (29, 11814), (43, 11961), (62, 12045), (72, 12093), (99, 12231), (103, 12252), (110, 12306), (131, 12399), (134, 12420), (139, 12441), (142, 12459), (149, 12483), (151, 12495), (162, 12567), (165, 12582), (169, 12615), (192, 12747), (195, 12771), (200, 12792), (206, 12825), (210, 12852), (218, 12894), (226, 12942), (251, 13080), (252, 13083), (262, 13125), (277, 13194), (278, 13197), (294, 13266), (303, 13308), (319, 13386), (340, 13503), (342, 13512), (345, 13527), (352, 13608), (355, 13617), (363, 13677), (384, 13791), (394, 13845), (398, 13869), (400, 13872), (401, 13875), (406, 13905), (413, 13935), (433, 14037), (436, 14058), (455, 14163), (456, 14166), (491, 14319), (494, 14337), (509, 14403), (513, 14418), (520, 14442), (533, 14484), (535, 14493), (550, 14553), (567, 14643), (588, 14739), (596, 14796), (602, 14829), (631, 14904), (659, 15099), (676, 15309), (682, 15378), (684, 15390), (685, 15399), (689, 15420), (728, 15579), (743, 15657),

Gene: Avrafan_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Avrafan_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814),

(259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: AzulaCat_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for AzulaCat_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: BEEST_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for BEEST_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: BGlluviae_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for BGlluviae_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: BPs_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for BPs_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385),

(743, 15403), (745, 15412),

Gene: BQuat_16 Start: 11455, Stop: 15468, Start Num: 15

Candidate Starts for BQuat_16:

(Start: 15 @11455 has 162 MA's), (35, 11656), (57, 11770), (67, 11812), (73, 11842), (99, 11977), (100, 11989), (103, 11998), (139, 12187), (142, 12205), (144, 12208), (149, 12229), (151, 12241), (162, 12313), (169, 12361), (192, 12493), (195, 12517), (210, 12598), (236, 12721), (249, 12805), (259, 12841), (266, 12886), (267, 12892), (293, 13000), (298, 13024), (303, 13045), (345, 13264), (363, 13414), (379, 13501), (400, 13609), (429, 13744), (446, 13855), (451, 13873), (456, 13903), (501, 14125), (509, 14149), (513, 14164), (518, 14185), (527, 14212), (535, 14239), (550, 14299), (567, 14389), (573, 14422), (588, 14485), (596, 14542), (602, 14575), (605, 14584), (678, 15088), (679, 15115), (682, 15145), (684, 15157), (685, 15166), (709, 15235), (728, 15316), (741, 15376), (743, 15394), (745, 15403),

Gene: BaghaKamala_21 Start: 12045, Stop: 15878, Start Num: 15

Candidate Starts for BaghaKamala_21:

(Start: 15 @12045 has 162 MA's), (Start: 23 @12114 has 1 MA's), (31, 12201), (41, 12276), (59, 12378), (67, 12405), (84, 12477), (85, 12489), (87, 12498), (99, 12570), (110, 12645), (129, 12729), (131, 12738), (134, 12759), (142, 12798), (151, 12834), (158, 12876), (169, 12954), (184, 13044), (196, 13119), (214, 13212), (216, 13221), (218, 13233), (220, 13242), (266, 13479), (276, 13518), (282, 13551), (303, 13638), (309, 13662), (324, 13746), (339, 13830), (342, 13842), (346, 13863), (401, 14019), (440, 14100), (451, 14148), (454, 14166), (457, 14187), (464, 14223), (476, 14274), (487, 14331), (503, 14409), (506, 14418), (527, 14496), (532, 14511), (540, 14553), (556, 14607), (602, 14847), (625, 14922), (651, 15033), (664, 15252), (666, 15264), (684, 15447), (685, 15456), (696, 15528), (705, 15558), (709, 15579), (727, 15699), (739, 15771), (742, 15789), (743, 15795),

Gene: Barkley26_16 Start: 11464, Stop: 15480, Start Num: 15

Candidate Starts for Barkley26_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15100), (679, 15127), (682, 15157), (684, 15169), (685, 15178), (709, 15247), (728, 15328), (741, 15388), (743, 15406), (745, 15415),

Gene: BarrelRoll_21 Start: 12068, Stop: 15901, Start Num: 15

Candidate Starts for BarrelRoll_21:

(Start: 15 @12068 has 162 MA's), (Start: 23 @12137 has 1 MA's), (31, 12224), (41, 12299), (59, 12401), (67, 12428), (84, 12500), (85, 12512), (87, 12521), (99, 12593), (110, 12668), (129, 12752), (131, 12761), (134, 12782), (142, 12821), (151, 12857), (158, 12899), (169, 12977), (184, 13067), (196, 13142), (214, 13235), (216, 13244), (218, 13256), (220, 13265), (266, 13502), (276, 13541), (282, 13574), (303, 13661), (309, 13685), (324, 13769), (339, 13853), (342, 13865), (346, 13886), (401, 14042), (440, 14123), (451, 14171), (454, 14189), (457, 14210), (464, 14246), (476, 14297), (487, 14354), (503, 14432), (506, 14441), (527, 14519), (532, 14534), (540, 14576), (556, 14630), (602, 14870), (625, 14945), (651, 15056), (664, 15275), (666, 15287), (684, 15470), (685, 15479), (696, 15551), (705, 15581), (709, 15602), (727, 15722), (739, 15794), (742, 15812), (743, 15818),

Gene: Beezoo_21 Start: 12092, Stop: 15925, Start Num: 15

Candidate Starts for Beezoo_21:

(Start: 15 @12092 has 162 MA's), (Start: 23 @12161 has 1 MA's), (Start: 24 @12182 has 1 MA's), (31, 12248), (59, 12425), (67, 12452), (84, 12524), (85, 12536), (87, 12545), (99, 12617), (110, 12692), (129, 12776), (131, 12785), (134, 12806), (142, 12845), (158, 12923), (169, 13001), (184, 13091), (196, 13166), (214, 13259), (216, 13268), (218, 13280), (220, 13289), (266, 13526), (276, 13565), (282, 13598), (303, 13685), (309, 13709), (324, 13793), (339, 13877), (342, 13889), (343, 13892), (346, 13910), (401, 14066), (440, 14147), (451, 14195), (454, 14213), (457, 14234), (464, 14270), (476, 14321), (487, 14378), (503, 14456), (506, 14465), (527, 14543), (532, 14558), (540, 14600), (556, 14654), (602, 14894), (625, 14969), (651, 15080), (664, 15299), (666, 15311), (684, 15494), (685, 15503), (705, 15605), (709, 15626), (727, 15746), (739, 15818), (742, 15836), (743, 15842),

Gene: Bella96_21 Start: 12006, Stop: 15845, Start Num: 15

Candidate Starts for Bella96_21:

(Start: 15 @12006 has 162 MA's), (Start: 23 @12075 has 1 MA's), (31, 12162), (59, 12342), (67, 12369), (85, 12453), (87, 12462), (97, 12522), (99, 12534), (110, 12609), (119, 12651), (129, 12693), (131, 12702), (134, 12723), (142, 12762), (144, 12765), (158, 12840), (169, 12918), (196, 13083), (214, 13176), (218, 13197), (220, 13206), (266, 13443), (272, 13467), (276, 13482), (282, 13515), (303, 13602), (321, 13689), (324, 13710), (339, 13794), (342, 13806), (346, 13827), (401, 13983), (440, 14064), (454, 14130), (457, 14151), (464, 14187), (476, 14238), (480, 14256), (487, 14295), (503, 14373), (506, 14382), (527, 14460), (532, 14475), (540, 14517), (556, 14571), (602, 14811), (625, 14886), (651, 14997), (653, 15018), (654, 15039), (662, 15159), (676, 15333), (684, 15414), (685, 15423), (696, 15495), (705, 15525), (709, 15546), (727, 15666), (739, 15738), (742, 15756), (743, 15762),

Gene: Belladonna_21 Start: 12185, Stop: 15949, Start Num: 23

Candidate Starts for Belladonna_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Biglebops_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Biglebops_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (231, 12578), (241, 12638), (251, 12695), (261, 12731), (266, 12764), (272, 12788), (287, 12854), (290, 12863), (303, 12923), (324, 13031), (332, 13076), (355, 13232), (372, 13343), (374, 13352), (376, 13364), (385, 13415), (389, 13433), (394, 13460), (401, 13490), (420, 13583), (429, 13622), (457, 13790), (469, 13844), (476, 13877), (485, 13922), (503, 14003), (504, 14006), (527, 14090), (530, 14096), (532, 14105), (540, 14147), (553, 14183), (556, 14201), (559, 14240), (574, 14300), (602, 14441), (621, 14501), (625, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: Blizzard_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Blizzard_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800),

(131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Boiiii_21 Start: 12118, Stop: 15951, Start Num: 15

Candidate Starts for Boiiii_21:

(Start: 15 @12118 has 162 MA's), (Start: 23 @12187 has 1 MA's), (31, 12274), (41, 12349), (59, 12451), (67, 12478), (84, 12550), (85, 12562), (87, 12571), (99, 12643), (110, 12718), (129, 12802), (131, 12811), (134, 12832), (142, 12871), (151, 12907), (158, 12949), (169, 13027), (184, 13117), (196, 13192), (214, 13285), (216, 13294), (218, 13306), (220, 13315), (266, 13552), (276, 13591), (282, 13624), (303, 13711), (309, 13735), (324, 13819), (339, 13903), (342, 13915), (346, 13936), (401, 14092), (440, 14173), (451, 14221), (454, 14239), (457, 14260), (464, 14296), (476, 14347), (487, 14404), (503, 14482), (506, 14491), (527, 14569), (532, 14584), (540, 14626), (556, 14680), (602, 14920), (625, 14995), (651, 15106), (664, 15325), (666, 15337), (684, 15520), (685, 15529), (696, 15601), (705, 15631), (709, 15652), (727, 15772), (739, 15844), (742, 15862), (743, 15868),

Gene: Boilgate_18 Start: 12212, Stop: 16429, Start Num: 24

Candidate Starts for Boilgate_18:

(8, 12077), (11, 12101), (Start: 16 @12122 has 58 MA's), (Start: 24 @12212 has 1 MA's), (35, 12323), (69, 12494), (74, 12512), (80, 12536), (84, 12551), (85, 12563), (97, 12632), (99, 12644), (103, 12665), (116, 12749), (129, 12803), (131, 12812), (134, 12833), (141, 12866), (142, 12872), (144, 12875), (148, 12890), (154, 12926), (158, 12950), (159, 12953), (169, 13028), (171, 13040), (183, 13115), (184, 13118), (185, 13121), (195, 13184), (216, 13295), (228, 13352), (238, 13406), (246, 13448), (256, 13496), (258, 13502), (261, 13517), (266, 13550), (274, 13583), (282, 13622), (283, 13625), (295, 13670), (303, 13709), (305, 13718), (308, 13730), (314, 13757), (326, 13850), (329, 13862), (335, 13919), (347, 14015), (365, 14090), (372, 14138), (373, 14144), (380, 14156), (395, 14192), (410, 14234), (452, 14432), (466, 14507), (494, 14624), (503, 14675), (504, 14678), (522, 14738), (523, 14741), (552, 14837), (568, 14915), (569, 14918), (599, 15074), (605, 15107), (609, 15116), (613, 15128), (620, 15152), (637, 15227), (639, 15236), (641, 15239), (644, 15263), (645, 15272), (646, 15275), (647, 15296), (654, 15368), (657, 15410), (659, 15440), (660, 15482), (665, 15554), (668, 15575), (674, 15662), (676, 15677), (684, 15758), (703, 15890), (737, 16112), (740, 16118), (753, 16232), (754, 16262), (755, 16280), (756, 16322), (757, 16355), (758, 16418),

Gene: BoostSeason_17 Start: 10144, Stop: 13818, Start Num: 14

Candidate Starts for BoostSeason_17:

(Start: 14 @10144 has 31 MA's), (Start: 23 @10216 has 1 MA's), (66, 10450), (84, 10501), (99, 10594), (110, 10669), (131, 10762), (134, 10783), (139, 10804), (140, 10810), (158, 10900), (164, 10942), (169, 10978), (177, 11011), (178, 11023), (181, 11047), (184, 11068), (189, 11092), (190, 11098), (195, 11134), (196, 11143), (204, 11176), (206, 11188), (210, 11215), (249, 11398), (251, 11410), (253, 11416), (262, 11455), (266, 11479), (301, 11512), (308, 11530), (311, 11539), (323, 11572), (351, 11761), (352, 11767), (356, 11803), (362, 11830), (367, 11848), (371, 11866), (394, 11974), (402, 12007), (412, 12040), (428, 12094), (434, 12127), (438, 12148), (443, 12172), (448, 12202), (453, 12223), (511, 12445), (537, 12538), (557, 12616), (590, 12739), (632, 12892), (676, 13309), (677, 13318), (679, 13348), (687, 13408), (707, 13516), (727, 13648), (743, 13741),

Gene: BruceB_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for BruceB_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250),

(162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Bryler_20 Start: 11095, Stop: 15096, Start Num: 16

Candidate Starts for Bryler_20:

(Start: 16 @11095 has 58 MA's), (26, 11188), (37, 11293), (42, 11320), (47, 11347), (50, 11365), (55, 11383), (60, 11407), (63, 11413), (69, 11440), (70, 11446), (80, 11482), (83, 11491), (86, 11515), (98, 11587), (101, 11605), (102, 11608), (128, 11737), (152, 11854), (166, 11950), (173, 11989), (179, 12019), (190, 12079), (222, 12262), (223, 12268), (224, 12271), (237, 12325), (240, 12355), (251, 12415), (255, 12427), (257, 12433), (260, 12448), (264, 12469), (267, 12487), (300, 12625), (303, 12637), (308, 12658), (317, 12697), (341, 12751), (342, 12757), (361, 12919), (374, 12982), (389, 13063), (392, 13078), (401, 13120), (411, 13171), (415, 13192), (422, 13222), (424, 13228), (429, 13252), (436, 13303), (446, 13363), (457, 13420), (464, 13456), (469, 13474), (476, 13507), (503, 13648), (504, 13651), (527, 13735), (535, 13762), (556, 13846), (602, 14086), (625, 14161), (665, 14494), (676, 14596), (677, 14605), (684, 14677), (696, 14761), (705, 14791), (709, 14812), (727, 14929), (739, 15004), (746, 15043), (747, 15055),

Gene: CLED96_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for CLED96_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: CREW_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for CREW_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Cain_20 Start: 11083, Stop: 15084, Start Num: 16

Candidate Starts for Cain_20:

(Start: 16 @11083 has 58 MA's), (26, 11176), (37, 11281), (42, 11308), (47, 11335), (50, 11353), (55, 11371), (60, 11395), (63, 11401), (69, 11428), (70, 11434), (80, 11470), (83, 11479), (86, 11503), (98, 11575), (101, 11593), (102, 11596), (128, 11725), (152, 11842), (166, 11938), (173, 11977), (179, 12007), (190, 12067), (222, 12250), (223, 12256), (224, 12259), (237, 12313), (240, 12343), (251, 12403), (255, 12415), (257, 12421), (260, 12436), (264, 12457), (267, 12475), (300, 12613), (303,

12625), (308, 12646), (317, 12685), (341, 12739), (342, 12745), (361, 12907), (374, 12970), (389, 13051), (392, 13066), (401, 13108), (411, 13159), (415, 13180), (422, 13210), (424, 13216), (429, 13240), (436, 13291), (446, 13351), (457, 13408), (464, 13444), (469, 13462), (476, 13495), (503, 13636), (504, 13639), (527, 13723), (535, 13750), (556, 13834), (602, 14074), (625, 14149), (665, 14482), (676, 14584), (677, 14593), (684, 14665), (696, 14749), (705, 14779), (709, 14800), (727, 14917), (739, 14992), (746, 15031), (747, 15043),

Gene: Cambiare_17 Start: 12153, Stop: 16196, Start Num: 16

Candidate Starts for Cambiare_17:

(Start: 16 @12153 has 58 MA's), (25, 12246), (29, 12276), (43, 12423), (62, 12507), (72, 12555), (99, 12693), (103, 12714), (110, 12768), (131, 12861), (134, 12882), (139, 12903), (142, 12921), (149, 12945), (151, 12957), (162, 13029), (165, 13044), (169, 13077), (192, 13209), (195, 13233), (200, 13254), (206, 13287), (210, 13314), (218, 13356), (226, 13404), (251, 13542), (252, 13545), (262, 13587), (277, 13656), (278, 13659), (294, 13728), (303, 13770), (319, 13848), (340, 13965), (342, 13974), (345, 13989), (352, 14070), (355, 14079), (363, 14139), (384, 14253), (394, 14307), (400, 14334), (411, 14388), (413, 14397), (422, 14439), (427, 14463), (429, 14469), (433, 14499), (436, 14520), (439, 14538), (447, 14583), (491, 14790), (493, 14805), (502, 14853), (509, 14874), (513, 14889), (520, 14913), (532, 14952), (533, 14955), (535, 14964), (539, 14991), (544, 15006), (558, 15057), (559, 15084), (586, 15189), (602, 15285), (625, 15360), (654, 15504), (667, 15705), (678, 15789), (679, 15816), (682, 15846), (684, 15858), (728, 16044), (743, 16122),

Gene: Camri_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Camri_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Capricorn_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Capricorn_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: CaseJules_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for CaseJules_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345),

(487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: CassieYates_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for CassieYates_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Cedasite_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Cedasite_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Chance64_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Chance64_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Chancellor_22 Start: 13324, Stop: 17499, Start Num: 16

Candidate Starts for Chancellor_22:

(9, 13288), (Start: 16 @13324 has 58 MA's), (35, 13522), (85, 13762), (87, 13771), (103, 13864), (131, 14011), (134, 14032), (142, 14071), (144, 14074), (158, 14149), (169, 14227), (183, 14314), (184, 14317), (190, 14347), (194, 14380), (200, 14404), (215, 14488), (221, 14518), (226, 14545), (247, 14653), (250, 14674), (252, 14686), (256, 14698), (266, 14752), (303, 14911), (308, 14932), (324, 15040), (343, 15160), (401, 15520), (411, 15571), (413, 15580), (423, 15625), (427, 15646), (470, 15865), (471, 15877), (475, 15886), (494, 15958), (503, 16009), (504, 16012), (512, 16039), (540, 16138), (546, 16156), (559, 16231), (600, 16420), (602, 16432), (625, 16507), (654, 16693), (662, 16813), (670, 16921), (684, 17071), (700, 17191), (703, 17200), (705, 17203), (711, 17224), (720, 17302), (726, 17329), (743, 17425), (750, 17488),

Gene: CheetoDust_21 Start: 12093, Stop: 15926, Start Num: 15

Candidate Starts for CheetoDust_21:

(Start: 15 @12093 has 162 MA's), (Start: 23 @12162 has 1 MA's), (31, 12249), (59, 12426), (67, 12453), (84, 12525), (85, 12537), (87, 12546), (99, 12618), (110, 12693), (129, 12777), (131, 12786), (134, 12807), (142, 12846), (158, 12924), (169, 13002), (174, 13026), (184, 13092), (196, 13167), (214, 13260), (216, 13269), (218, 13281), (220, 13290), (266, 13527), (276, 13566), (282, 13599), (303, 13686), (309, 13710), (324, 13794), (339, 13878), (342, 13890), (346, 13911), (401, 14067), (440, 14148), (445, 14172), (451, 14196), (454, 14214), (457, 14235), (464, 14271), (476, 14322), (487, 14379), (503, 14457), (506, 14466), (527, 14544), (532, 14559), (540, 14601), (556, 14655), (602, 14895), (625, 14970), (651, 15081), (664, 15300), (666, 15312), (684, 15495), (685, 15504), (696, 15576), (705, 15606), (709, 15627), (727, 15747), (739, 15819), (742, 15837), (743, 15843),

Gene: Cheetobro_22 Start: 13324, Stop: 17496, Start Num: 16

Candidate Starts for Cheetobro_22:

(9, 13288), (Start: 16 @13324 has 58 MA's), (35, 13522), (85, 13762), (87, 13771), (103, 13864), (131, 14011), (134, 14032), (142, 14071), (144, 14074), (158, 14149), (169, 14227), (183, 14314), (184, 14317), (190, 14347), (194, 14380), (200, 14404), (215, 14488), (221, 14518), (226, 14545), (247, 14653), (250, 14674), (252, 14686), (256, 14698), (266, 14752), (303, 14911), (308, 14932), (324, 15040), (343, 15160), (401, 15520), (411, 15571), (413, 15580), (423, 15625), (427, 15646), (470, 15865), (471, 15877), (475, 15886), (494, 15958), (503, 16009), (504, 16012), (512, 16039), (540, 16138), (546, 16156), (559, 16231), (600, 16420), (602, 16432), (625, 16507), (654, 16693), (662, 16813), (670, 16921), (684, 17068), (700, 17188), (703, 17197), (705, 17200), (720, 17299), (726, 17326), (743, 17422), (750, 17485),

Gene: Cherrybomb426_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Cherrybomb426_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Chris_20 Start: 11071, Stop: 15138, Start Num: 16

Candidate Starts for Chris_20:

(Start: 16 @11071 has 58 MA's), (26, 11164), (42, 11296), (47, 11323), (48, 11332), (49, 11338), (74, 11434), (98, 11563), (101, 11581), (102, 11584), (106, 11611), (110, 11641), (128, 11722), (133, 11752), (139, 11776), (152, 11839), (155, 11854), (168, 11950), (169, 11953), (178, 11995), (190, 12064), (222, 12247), (224, 12256), (235, 12298), (237, 12310), (251, 12400), (255, 12412), (257, 12418), (260, 12433), (263, 12451), (264, 12454), (270, 12484), (271, 12487), (300, 12610), (303, 12622), (304, 12628), (308, 12643), (310, 12649), (340, 12733), (347, 12802), (374, 12967), (383, 13015), (385, 13030), (401, 13105), (411, 13156), (415, 13177), (424, 13213), (429, 13237), (433, 13267), (454, 13384), (456, 13396), (457, 13405), (469, 13459), (476, 13492), (487, 13549), (503, 13627), (504, 13630), (527, 13714), (535, 13741), (546, 13789), (556, 13825), (559, 13864), (587, 13969), (602, 14065), (617, 14107), (625, 14140), (664, 14482), (684, 14680), (699, 14794), (727, 14968), (739, 15052), (743, 15073),

Gene: Coleslaw_16 Start: 11455, Stop: 15468, Start Num: 15

Candidate Starts for Coleslaw_16:

(Start: 15 @11455 has 162 MA's), (35, 11656), (57, 11770), (67, 11812), (73, 11842), (99, 11977), (100, 11989), (103, 11998), (139, 12187), (142, 12205), (144, 12208), (149, 12229), (151, 12241),

(162, 12313), (169, 12361), (192, 12493), (195, 12517), (210, 12598), (236, 12721), (249, 12805), (259, 12841), (266, 12886), (267, 12892), (293, 13000), (298, 13024), (303, 13045), (345, 13264), (363, 13414), (379, 13501), (400, 13609), (429, 13744), (446, 13855), (451, 13873), (456, 13903), (501, 14125), (509, 14149), (513, 14164), (518, 14185), (527, 14212), (535, 14239), (550, 14299), (567, 14389), (573, 14422), (588, 14485), (596, 14542), (602, 14575), (605, 14584), (678, 15088), (679, 15115), (682, 15145), (684, 15157), (685, 15166), (709, 15235), (728, 15316), (741, 15376), (743, 15394), (745, 15403),

Gene: Collard_19 Start: 12197, Stop: 16303, Start Num: 14

Candidate Starts for Collard_19:

(Start: 14 @12197 has 31 MA's), (Start: 24 @12290 has 1 MA's), (32, 12368), (33, 12392), (43, 12452), (62, 12536), (65, 12548), (87, 12650), (97, 12710), (99, 12722), (103, 12743), (110, 12797), (122, 12845), (131, 12890), (134, 12911), (158, 13028), (169, 13106), (174, 13130), (184, 13196), (196, 13271), (214, 13364), (220, 13394), (253, 13568), (256, 13577), (262, 13607), (266, 13631), (271, 13652), (284, 13712), (303, 13790), (305, 13799), (321, 13877), (332, 13943), (340, 13985), (342, 13994), (349, 14078), (355, 14099), (357, 14132), (370, 14198), (374, 14219), (384, 14273), (385, 14282), (389, 14300), (393, 14318), (394, 14327), (401, 14357), (407, 14393), (419, 14447), (427, 14483), (429, 14489), (430, 14507), (449, 14612), (461, 14678), (503, 14873), (512, 14903), (522, 14936), (535, 14987), (538, 15008), (542, 15023), (543, 15029), (559, 15113), (573, 15161), (583, 15200), (594, 15260), (601, 15293), (606, 15314), (614, 15338), (621, 15368), (642, 15434), (653, 15506), (676, 15821), (677, 15830), (678, 15833), (680, 15875), (684, 15902), (689, 15932), (696, 15983), (700, 16001), (716, 16067), (722, 16115), (727, 16139), (729, 16151), (744, 16232), (747, 16256), (751, 16295),

Gene: Crespo_16 Start: 11465, Stop: 15478, Start Num: 15

Candidate Starts for Crespo_16:

(Start: 15 @11465 has 162 MA's), (35, 11666), (57, 11780), (67, 11822), (73, 11852), (99, 11987), (100, 11999), (103, 12008), (139, 12197), (142, 12215), (144, 12218), (149, 12239), (151, 12251), (162, 12323), (169, 12371), (192, 12503), (195, 12527), (210, 12608), (236, 12731), (249, 12815), (259, 12851), (266, 12896), (267, 12902), (293, 13010), (298, 13034), (303, 13055), (345, 13274), (363, 13424), (379, 13511), (400, 13619), (429, 13754), (446, 13865), (451, 13883), (456, 13913), (501, 14135), (509, 14159), (513, 14174), (518, 14195), (527, 14222), (535, 14249), (550, 14309), (567, 14399), (573, 14432), (588, 14495), (596, 14552), (602, 14585), (605, 14594), (678, 15098), (679, 15125), (682, 15155), (684, 15167), (685, 15176), (709, 15245), (728, 15326), (741, 15386), (743, 15404), (745, 15413),

Gene: CrimD_21 Start: 12051, Stop: 15887, Start Num: 15

Candidate Starts for CrimD_21:

(Start: 15 @12051 has 162 MA's), (Start: 23 @12120 has 1 MA's), (31, 12207), (59, 12387), (67, 12414), (85, 12498), (87, 12507), (97, 12567), (99, 12579), (110, 12654), (119, 12696), (129, 12738), (131, 12747), (134, 12768), (142, 12807), (158, 12885), (169, 12963), (196, 13128), (214, 13221), (216, 13230), (218, 13242), (220, 13251), (266, 13488), (272, 13512), (276, 13527), (282, 13560), (303, 13647), (309, 13671), (324, 13755), (339, 13839), (342, 13851), (346, 13872), (354, 13953), (395, 14010), (401, 14028), (440, 14109), (451, 14157), (454, 14175), (456, 14187), (457, 14196), (464, 14232), (476, 14283), (487, 14340), (503, 14418), (527, 14505), (532, 14520), (540, 14562), (556, 14616), (602, 14856), (625, 14931), (651, 15042), (664, 15261), (666, 15273), (676, 15375), (684, 15456), (685, 15465), (696, 15537), (705, 15567), (709, 15588), (727, 15708), (739, 15780), (742, 15798), (743, 15804),

Gene: Curiosium_22 Start: 11510, Stop: 15637, Start Num: 16

Candidate Starts for Curiosium_22:

(Start: 16 @11510 has 58 MA's), (20, 11537), (26, 11603), (42, 11735), (46, 11759), (53, 11789), (57, 11810), (60, 11822), (75, 11879), (76, 11882), (91, 11969), (98, 12002), (101, 12020), (102, 12023),

(108, 12065), (117, 12110), (146, 12239), (152, 12281), (155, 12296), (156, 12305), (161, 12332), (169, 12395), (177, 12425), (190, 12506), (198, 12557), (214, 12644), (222, 12689), (233, 12731), (234, 12734), (235, 12740), (240, 12782), (251, 12842), (255, 12854), (257, 12860), (260, 12875), (263, 12893), (264, 12896), (267, 12914), (271, 12929), (285, 12989), (292, 13010), (295, 13025), (303, 13064), (307, 13082), (308, 13085), (339, 13262), (342, 13274), (344, 13283), (347, 13334), (354, 13376), (374, 13499), (378, 13523), (393, 13598), (405, 13664), (424, 13745), (433, 13799), (436, 13820), (439, 13838), (446, 13880), (451, 13898), (455, 13925), (457, 13937), (464, 13973), (469, 13991), (478, 14036), (503, 14165), (504, 14168), (527, 14252), (532, 14267), (539, 14306), (540, 14309), (556, 14363), (559, 14402), (576, 14468), (602, 14603), (637, 14729), (668, 15044), (676, 15125), (677, 15134), (684, 15206), (727, 15458), (739, 15530), (743, 15554), (747, 15581),

Gene: DMoney_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for DMoney_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: DNAlll_0016 Start: 11473, Stop: 15486, Start Num: 15

Candidate Starts for DNAlll_0016:

(Start: 15 @11473 has 162 MA's), (35, 11674), (57, 11788), (67, 11830), (73, 11860), (99, 11995), (100, 12007), (103, 12016), (139, 12205), (142, 12223), (144, 12226), (149, 12247), (151, 12259), (162, 12331), (169, 12379), (192, 12511), (195, 12535), (210, 12616), (236, 12739), (249, 12823), (259, 12859), (266, 12904), (267, 12910), (293, 13018), (298, 13042), (303, 13063), (345, 13282), (363, 13432), (379, 13519), (400, 13627), (429, 13762), (446, 13873), (451, 13891), (456, 13921), (501, 14143), (509, 14167), (513, 14182), (518, 14203), (527, 14230), (535, 14257), (550, 14317), (567, 14407), (573, 14440), (588, 14503), (596, 14560), (602, 14593), (605, 14602), (678, 15106), (679, 15133), (682, 15163), (684, 15175), (685, 15184), (709, 15253), (728, 15334), (741, 15394), (743, 15412), (745, 15421),

Gene: Dadosky_19 Start: 12113, Stop: 16225, Start Num: 14

Candidate Starts for Dadosky_19:

(Start: 14 @12113 has 31 MA's), (Start: 24 @12206 has 1 MA's), (32, 12284), (33, 12308), (43, 12368), (62, 12452), (87, 12566), (97, 12626), (99, 12638), (103, 12659), (110, 12713), (122, 12761), (131, 12806), (134, 12827), (158, 12944), (169, 13022), (174, 13046), (180, 13088), (184, 13112), (196, 13187), (214, 13280), (220, 13310), (253, 13484), (262, 13523), (266, 13547), (271, 13568), (284, 13628), (303, 13706), (321, 13793), (332, 13859), (340, 13901), (342, 13910), (349, 13994), (355, 14015), (357, 14048), (370, 14114), (374, 14135), (384, 14189), (385, 14198), (389, 14216), (394, 14243), (401, 14273), (407, 14309), (427, 14399), (429, 14405), (430, 14423), (449, 14528), (461, 14594), (503, 14789), (512, 14819), (522, 14852), (535, 14903), (538, 14924), (542, 14939), (543, 14945), (559, 15029), (573, 15077), (583, 15116), (594, 15176), (601, 15209), (606, 15230), (614, 15254), (621, 15284), (642, 15350), (653, 15422), (676, 15737), (677, 15746), (678, 15749), (679, 15776), (680, 15791), (682, 15806), (684, 15818), (689, 15848), (696, 15902), (700, 15920), (716, 15989), (722, 16037), (727, 16061), (729, 16073), (731, 16082), (744, 16154), (747, 16178), (751, 16217),

Gene: Dalmuri_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Dalmuri_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Darionha_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Darionha_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: DarthP_20 Start: 12196, Stop: 16335, Start Num: 15

Candidate Starts for DarthP_20:

(9, 12151), (Start: 15 @12196 has 162 MA's), (Start: 23 @12265 has 1 MA's), (31, 12352), (41, 12427), (59, 12529), (62, 12535), (67, 12556), (74, 12589), (77, 12601), (85, 12640), (87, 12649), (97, 12709), (99, 12721), (103, 12742), (110, 12796), (116, 12826), (131, 12889), (134, 12910), (142, 12949), (158, 13027), (169, 13105), (174, 13129), (204, 13303), (210, 13342), (211, 13351), (212, 13354), (218, 13384), (242, 13507), (245, 13522), (251, 13561), (262, 13606), (266, 13630), (291, 13732), (293, 13744), (295, 13750), (303, 13789), (323, 13915), (326, 13930), (333, 13966), (335, 13978), (344, 14023), (355, 14119), (393, 14338), (401, 14377), (404, 14398), (424, 14485), (429, 14509), (432, 14536), (433, 14539), (438, 14569), (446, 14620), (454, 14656), (476, 14764), (503, 14899), (504, 14902), (524, 14968), (526, 14974), (535, 15013), (551, 15085), (552, 15091), (556, 15112), (572, 15196), (577, 15226), (581, 15247), (584, 15259), (598, 15340), (603, 15373), (607, 15382), (610, 15388), (621, 15430), (628, 15448), (635, 15481), (636, 15487), (652, 15532), (664, 15742), (676, 15841), (677, 15850), (678, 15853), (684, 15922), (709, 16057), (718, 16126), (727, 16174), (743, 16270), (748, 16309),

Gene: Dartin_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for Dartin_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (233, 12361), (235, 12370), (237, 12382), (238, 12394), (240, 12412), (251, 12472), (255, 12484), (257, 12490), (260, 12505), (263, 12523), (264, 12526), (267, 12544), (271, 12559), (280, 12598), (295, 12655), (296, 12664), (303, 12694), (308, 12715), (315, 12745), (320, 12778), (334, 12862), (339, 12892), (342, 12904), (354, 13006), (366, 13084), (374, 13129), (378, 13153), (388, 13207), (389, 13210), (392, 13225), (401, 13267), (405, 13294), (407, 13303), (411, 13318), (412, 13324), (413, 13327), (439, 13468), (445, 13504), (446, 13510), (451, 13528), (455, 13555), (457, 13567), (469, 13621), (476, 13654), (488, 13714), (503, 13795), (504, 13798), (527, 13882), (532, 13897), (559, 14032), (576, 14098), (602, 14233), (662, 14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (739, 15181), (742, 15199), (743, 15205), (748, 15244),

Gene: Deby_21 Start: 12050, Stop: 15883, Start Num: 15

Candidate Starts for Deby_21:

(Start: 15 @12050 has 162 MA's), (Start: 23 @12119 has 1 MA's), (31, 12206), (59, 12383), (67, 12410), (85, 12494), (87, 12503), (99, 12575), (110, 12650), (129, 12734), (131, 12743), (134, 12764), (142, 12803), (158, 12881), (169, 12959), (184, 13049), (196, 13124), (214, 13217), (218, 13238), (220, 13247), (266, 13484), (276, 13523), (282, 13556), (303, 13643), (309, 13667), (324, 13751), (339, 13835), (342, 13847), (346, 13868), (401, 14024), (440, 14105), (451, 14153), (454, 14171), (457, 14192), (464, 14228), (476, 14279), (487, 14336), (503, 14414), (506, 14423), (527, 14501), (532, 14516), (540, 14558), (556, 14612), (602, 14852), (625, 14927), (651, 15038), (664, 15257), (666, 15269), (684, 15452), (685, 15461), (705, 15563), (709, 15584), (727, 15704), (739, 15776), (742, 15794), (743, 15800),

Gene: Devera_21 Start: 12075, Stop: 15929, Start Num: 15

Candidate Starts for Devera_21:

(Start: 15 @12075 has 162 MA's), (Start: 23 @12144 has 1 MA's), (31, 12231), (59, 12411), (67, 12438), (85, 12522), (87, 12531), (97, 12591), (99, 12603), (110, 12678), (119, 12720), (129, 12762), (131, 12771), (134, 12792), (142, 12831), (158, 12909), (164, 12951), (169, 12987), (196, 13152), (214, 13245), (218, 13266), (220, 13275), (272, 13557), (276, 13572), (282, 13605), (303, 13692), (324, 13800), (339, 13884), (342, 13896), (346, 13917), (401, 14073), (440, 14154), (451, 14202), (454, 14220), (457, 14241), (464, 14277), (476, 14328), (487, 14385), (503, 14463), (506, 14472), (527, 14550), (532, 14565), (540, 14607), (556, 14661), (579, 14778), (602, 14901), (625, 14976), (654, 15129), (664, 15306), (676, 15420), (684, 15501), (685, 15510), (696, 15582), (705, 15612), (709, 15633), (727, 15750), (739, 15822), (743, 15846),

Gene: DismalFunk_17 Start: 10116, Stop: 13784, Start Num: 14

Candidate Starts for DismalFunk_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (249, 11370), (251, 11382), (253, 11388), (259, 11406), (262, 11427), (266, 11451), (272, 11475), (301, 11484), (307, 11499), (311, 11511), (323, 11544), (332, 11592), (351, 11733), (352, 11739), (356, 11775), (362, 11802), (367, 11820), (394, 11946), (412, 12012), (428, 12066), (434, 12099), (438, 12120), (443, 12144), (448, 12174), (453, 12195), (511, 12417), (537, 12510), (557, 12588), (590, 12711), (615, 12816), (632, 12864), (671, 13251), (676, 13281), (677, 13290), (679, 13320), (707, 13485), (727, 13614), (743, 13707),

Gene: DismalStressor_17 Start: 10116, Stop: 13784, Start Num: 14

Candidate Starts for DismalStressor_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (249, 11370), (251, 11382), (253, 11388), (259, 11406), (262, 11427), (266, 11451), (272, 11475), (301, 11484), (307, 11499), (311, 11511), (323, 11544), (332, 11592), (351, 11733), (352, 11739), (356, 11775), (362, 11802), (367, 11820), (394, 11946), (412, 12012), (428, 12066), (434, 12099), (438, 12120), (443, 12144), (448, 12174), (453, 12195), (511, 12417), (537, 12510), (557, 12588), (590, 12711), (615, 12816), (632, 12864), (671, 13251), (676, 13281), (677, 13290), (679, 13320), (707, 13485), (727, 13614), (743, 13707),

Gene: Dole_21 Start: 12077, Stop: 15931, Start Num: 15

Candidate Starts for Dole_21:

(Start: 15 @12077 has 162 MA's), (Start: 23 @12146 has 1 MA's), (31, 12233), (59, 12413), (67, 12440), (85, 12524), (87, 12533), (97, 12593), (99, 12605), (110, 12680), (119, 12722), (129, 12764), (131, 12773), (134, 12794), (142, 12833), (158, 12911), (164, 12953), (169, 12989), (196, 13154), (214, 13247), (218, 13268), (220, 13277), (272, 13559), (276, 13574), (282, 13607), (303, 13694), (324, 13802), (339, 13886), (342, 13898), (346, 13919), (401, 14075), (440, 14156), (451, 14204), (454, 14222), (457, 14243), (464, 14279), (476, 14330), (487, 14387), (503, 14465), (506, 14474), (527, 14552), (532, 14567), (540, 14609), (556, 14663), (579, 14780), (602, 14903), (625, 14978), (654, 15131), (664, 15308), (676, 15422), (684, 15503), (685, 15512), (696, 15584), (705, 15614), (709, 15635), (727, 15752), (739, 15824), (743, 15848),

Gene: DrHayes_21 Start: 12024, Stop: 15863, Start Num: 15

Candidate Starts for DrHayes_21:

(Start: 15 @12024 has 162 MA's), (Start: 23 @12093 has 1 MA's), (31, 12180), (59, 12360), (67, 12387), (85, 12471), (87, 12480), (97, 12540), (99, 12552), (110, 12627), (123, 12678), (131, 12720), (134, 12741), (142, 12780), (158, 12858), (169, 12936), (174, 12960), (196, 13101), (214, 13194), (218, 13215), (220, 13224), (266, 13461), (272, 13485), (276, 13500), (282, 13533), (303, 13620), (321, 13707), (324, 13728), (339, 13812), (342, 13824), (346, 13845), (401, 14001), (440, 14082), (454, 14148), (457, 14169), (464, 14205), (476, 14256), (480, 14274), (487, 14313), (503, 14391), (527, 14478), (532, 14493), (540, 14535), (556, 14589), (602, 14829), (625, 14904), (651, 15015), (653, 15036), (654, 15057), (662, 15177), (676, 15351), (684, 15432), (685, 15441), (696, 15513), (705, 15543), (709, 15564), (727, 15684), (739, 15756), (742, 15774), (743, 15780),

Gene: Durfee_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Durfee_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: ECartman_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for ECartman_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Edugator_18 Start: 12113, Stop: 16225, Start Num: 14

Candidate Starts for Edugator_18:

(Start: 12 @12092 has 1 MA's), (Start: 14 @12113 has 31 MA's), (Start: 24 @12206 has 1 MA's), (32, 12284), (33, 12308), (43, 12368), (62, 12452), (87, 12566), (97, 12626), (99, 12638), (103, 12659), (110, 12713), (122, 12761), (131, 12806), (134, 12827), (158, 12944), (169, 13022), (174, 13046), (180, 13088), (184, 13112), (196, 13187), (214, 13280), (220, 13310), (253, 13484), (262, 13523), (266, 13547), (271, 13568), (284, 13628), (303, 13706), (321, 13793), (332, 13859), (340, 13901),

(342, 13910), (349, 13994), (355, 14015), (357, 14048), (370, 14114), (374, 14135), (384, 14189), (385, 14198), (389, 14216), (394, 14243), (401, 14273), (407, 14309), (427, 14399), (429, 14405), (430, 14423), (449, 14528), (461, 14594), (503, 14789), (512, 14819), (522, 14852), (535, 14903), (538, 14924), (542, 14939), (543, 14945), (559, 15029), (573, 15077), (583, 15116), (594, 15176), (601, 15209), (606, 15230), (614, 15254), (621, 15284), (642, 15350), (653, 15422), (676, 15737), (677, 15746), (678, 15749), (679, 15776), (680, 15791), (682, 15806), (684, 15818), (689, 15848), (696, 15902), (700, 15920), (716, 15989), (722, 16037), (727, 16061), (729, 16073), (731, 16082), (744, 16154), (747, 16178), (751, 16217),

Gene: Efra2_21 Start: 11000, Stop: 15127, Start Num: 16

Candidate Starts for Efra2_21:

(9, 10952), (Start: 16 @11000 has 58 MA's), (26, 11093), (42, 11225), (46, 11249), (53, 11279), (57, 11300), (60, 11312), (76, 11372), (91, 11459), (98, 11492), (101, 11510), (102, 11513), (114, 11585), (146, 11729), (152, 11771), (155, 11786), (161, 11822), (170, 11894), (190, 11996), (222, 12179), (229, 12206), (234, 12224), (235, 12230), (240, 12272), (255, 12344), (257, 12350), (260, 12365), (264, 12386), (267, 12404), (271, 12419), (281, 12467), (292, 12500), (295, 12515), (303, 12554), (308, 12575), (315, 12605), (344, 12773), (347, 12824), (374, 12989), (378, 13013), (389, 13070), (398, 13121), (405, 13154), (407, 13163), (424, 13235), (436, 13310), (439, 13328), (446, 13370), (451, 13388), (455, 13415), (457, 13427), (481, 13556), (488, 13574), (503, 13655), (504, 13658), (527, 13742), (539, 13796), (540, 13799), (559, 13892), (576, 13958), (602, 14093), (637, 14219), (676, 14615), (677, 14624), (684, 14696), (696, 14780), (705, 14810), (708, 14831), (727, 14948), (739, 15020), (743, 15044), (748, 15083),

Gene: Ekdilam_18 Start: 11907, Stop: 16097, Start Num: 15

Candidate Starts for Ekdilam_18:

(9, 11862), (Start: 15 @11907 has 162 MA's), (Start: 23 @11976 has 1 MA's), (31, 12063), (41, 12138), (59, 12240), (67, 12267), (74, 12300), (77, 12312), (85, 12351), (97, 12420), (99, 12432), (103, 12453), (110, 12507), (114, 12531), (116, 12537), (131, 12600), (134, 12621), (142, 12660), (149, 12684), (158, 12738), (169, 12816), (174, 12840), (186, 12915), (204, 13014), (210, 13053), (212, 13065), (218, 13095), (242, 13218), (245, 13233), (251, 13272), (256, 13287), (266, 13341), (293, 13455), (294, 13458), (303, 13500), (308, 13521), (323, 13626), (326, 13641), (330, 13656), (333, 13677), (335, 13689), (344, 13734), (355, 13830), (374, 13950), (401, 14088), (404, 14109), (424, 14196), (429, 14220), (432, 14247), (433, 14250), (438, 14280), (446, 14331), (454, 14367), (476, 14475), (503, 14610), (504, 14613), (524, 14679), (526, 14685), (535, 14724), (551, 14796), (552, 14802), (556, 14823), (572, 14907), (577, 14937), (581, 14958), (584, 14970), (598, 15051), (603, 15084), (607, 15093), (610, 15099), (621, 15141), (628, 15159), (635, 15192), (636, 15198), (664, 15486), (676, 15600), (677, 15609), (678, 15612), (684, 15681), (709, 15813), (727, 15933), (741, 16011), (743, 16032), (748, 16071),

Gene: Ellie_18 Start: 11944, Stop: 16092, Start Num: 15

Candidate Starts for Ellie_18:

(Start: 15 @11944 has 162 MA's), (Start: 23 @12013 has 1 MA's), (41, 12175), (59, 12277), (62, 12283), (67, 12304), (97, 12457), (99, 12469), (110, 12544), (116, 12574), (131, 12637), (134, 12658), (142, 12697), (158, 12775), (169, 12853), (174, 12877), (184, 12943), (196, 13018), (214, 13111), (231, 13192), (242, 13255), (251, 13309), (252, 13312), (258, 13330), (260, 13342), (271, 13399), (278, 13426), (282, 13450), (288, 13471), (293, 13492), (303, 13537), (332, 13711), (355, 13867), (374, 13987), (382, 14029), (383, 14035), (395, 14107), (401, 14125), (404, 14146), (429, 14257), (438, 14317), (443, 14350), (446, 14368), (451, 14386), (454, 14404), (456, 14416), (464, 14461), (476, 14512), (483, 14560), (503, 14638), (527, 14725), (530, 14731), (532, 14740), (544, 14797), (547, 14800), (559, 14875), (576, 14941), (602, 15076), (621, 15136), (625, 15151), (628, 15157), (677, 15607), (684, 15679), (685, 15688), (699, 15775), (727, 15928), (743, 16027), (747, 16054), (748, 16066),

Gene: Emerson_21 Start: 12076, Stop: 15909, Start Num: 15

Candidate Starts for Emerson_21:

(Start: 15 @12076 has 162 MA's), (Start: 23 @12145 has 1 MA's), (31, 12232), (41, 12307), (59, 12409), (67, 12436), (84, 12508), (85, 12520), (87, 12529), (99, 12601), (110, 12676), (129, 12760), (131, 12769), (134, 12790), (142, 12829), (158, 12907), (169, 12985), (184, 13075), (196, 13150), (214, 13243), (216, 13252), (218, 13264), (220, 13273), (266, 13510), (276, 13549), (282, 13582), (303, 13669), (309, 13693), (324, 13777), (339, 13861), (342, 13873), (346, 13894), (401, 14050), (440, 14131), (451, 14179), (454, 14197), (457, 14218), (464, 14254), (476, 14305), (487, 14362), (503, 14440), (506, 14449), (527, 14527), (532, 14542), (540, 14584), (556, 14638), (602, 14878), (625, 14953), (651, 15064), (664, 15283), (666, 15295), (684, 15478), (685, 15487), (696, 15559), (705, 15589), (709, 15610), (727, 15730), (739, 15802), (742, 15820), (743, 15826),

Gene: Enkosi_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Enkosi_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (231, 12578), (241, 12638), (251, 12695), (261, 12731), (266, 12764), (272, 12788), (287, 12854), (290, 12863), (303, 12923), (324, 13031), (332, 13076), (355, 13232), (372, 13343), (374, 13352), (376, 13364), (385, 13415), (389, 13433), (394, 13460), (401, 13490), (420, 13583), (429, 13622), (457, 13790), (469, 13844), (476, 13877), (485, 13922), (503, 14003), (504, 14006), (527, 14090), (530, 14096), (532, 14105), (540, 14147), (553, 14183), (556, 14201), (559, 14240), (574, 14300), (602, 14441), (621, 14501), (625, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: Eponine_22 Start: 13193, Stop: 17389, Start Num: 16

Candidate Starts for Eponine_22:

(Start: 16 @13193 has 58 MA's), (35, 13391), (80, 13604), (85, 13631), (87, 13640), (99, 13712), (103, 13733), (129, 13871), (131, 13880), (134, 13901), (142, 13940), (156, 14009), (158, 14018), (169, 14096), (171, 14108), (184, 14186), (190, 14216), (194, 14249), (195, 14252), (200, 14273), (226, 14414), (228, 14423), (252, 14555), (256, 14567), (266, 14621), (276, 14660), (282, 14693), (303, 14780), (308, 14801), (333, 14978), (343, 15029), (361, 15188), (401, 15389), (411, 15440), (413, 15449), (423, 15494), (427, 15515), (431, 15521), (450, 15626), (452, 15635), (470, 15734), (471, 15746), (475, 15755), (494, 15827), (499, 15860), (503, 15878), (504, 15881), (512, 15908), (540, 16007), (546, 16025), (559, 16100), (600, 16289), (602, 16301), (625, 16376), (641, 16445), (654, 16577), (660, 16691), (684, 16958), (687, 16976), (703, 17087), (705, 17090), (720, 17189), (726, 17216), (727, 17219), (743, 17315), (750, 17378),

Gene: FF47_19 Start: 11405, Stop: 14815, Start Num: 28

Candidate Starts for FF47_19:

(Start: 28 @11405 has 2 MA's), (30, 11420), (34, 11468), (38, 11471), (45, 11516), (82, 11639), (143, 11966), (147, 11978), (150, 11999), (163, 12083), (170, 12137), (172, 12146), (181, 12200), (187, 12233), (188, 12242), (193, 12284), (204, 12329), (206, 12341), (209, 12362), (214, 12386), (225, 12440), (239, 12494), (244, 12515), (246, 12527), (250, 12551), (251, 12560), (269, 12638), (316, 12695), (336, 12764), (367, 12974), (375, 13013), (377, 13025), (392, 13088), (401, 13130), (403, 13148), (426, 13235), (431, 13259), (435, 13286), (438, 13298), (458, 13406), (459, 13415), (486, 13508), (495, 13538), (497, 13559), (505, 13574), (547, 13685), (554, 13706), (567, 13781), (591, 13877), (599, 13934), (605, 13967), (611, 13982), (658, 14213), (675, 14408), (685, 14504), (688, 14522), (694, 14564), (695, 14570), (703, 14597), (722, 14699), (724, 14708), (731, 14747),

Gene: Fefferhead_20 Start: 12111, Stop: 16259, Start Num: 15

Candidate Starts for Fefferhead_20:

(Start: 15 @12111 has 162 MA's), (Start: 23 @12180 has 1 MA's), (41, 12342), (59, 12444), (62, 12450), (67, 12471), (97, 12624), (99, 12636), (110, 12711), (131, 12804), (134, 12825), (142, 12864), (158, 12942), (169, 13020), (174, 13044), (182, 13098), (184, 13110), (196, 13185), (214, 13278), (231, 13359), (242, 13422), (251, 13476), (258, 13497), (260, 13509), (266, 13545), (271, 13566), (276, 13584), (282, 13617), (288, 13638), (290, 13644), (293, 13659), (295, 13665), (303, 13704), (332, 13878), (355, 14034), (382, 14196), (383, 14202), (393, 14253), (401, 14292), (404, 14313), (429, 14424), (438, 14484), (443, 14517), (446, 14535), (451, 14553), (454, 14571), (456, 14583), (464, 14628), (476, 14679), (483, 14727), (503, 14805), (506, 14814), (527, 14892), (530, 14898), (532, 14907), (544, 14964), (547, 14967), (559, 15042), (576, 15108), (602, 15243), (621, 15303), (625, 15318), (628, 15324), (677, 15774), (684, 15846), (685, 15855), (699, 15942), (727, 16095), (743, 16194), (747, 16221), (748, 16233),

Gene: Feyre_19 Start: 12055, Stop: 16164, Start Num: 14

Candidate Starts for Feyre_19:

(Start: 14 @12055 has 31 MA's), (43, 12313), (62, 12397), (77, 12463), (84, 12490), (87, 12511), (97, 12571), (99, 12583), (103, 12604), (110, 12658), (116, 12688), (131, 12751), (134, 12772), (158, 12889), (164, 12931), (165, 12934), (169, 12967), (177, 13000), (214, 13225), (217, 13237), (218, 13246), (238, 13324), (249, 13387), (252, 13402), (253, 13405), (256, 13414), (258, 13420), (260, 13432), (261, 13435), (266, 13468), (270, 13486), (272, 13492), (295, 13588), (303, 13627), (332, 13780), (340, 13822), (345, 13846), (355, 13936), (357, 13969), (384, 14110), (385, 14119), (389, 14137), (394, 14164), (410, 14242), (429, 14326), (449, 14449), (461, 14515), (483, 14617), (503, 14710), (506, 14719), (512, 14740), (522, 14773), (535, 14824), (538, 14845), (542, 14860), (543, 14866), (559, 14950), (571, 14980), (573, 14998), (583, 15037), (594, 15097), (601, 15130), (606, 15151), (614, 15175), (621, 15208), (642, 15292), (653, 15364), (676, 15673), (680, 15727), (682, 15742), (684, 15754), (689, 15784), (722, 15970), (727, 15994), (729, 16006), (744, 16093), (747, 16117),

Gene: Findley_17 Start: 10116, Stop: 13787, Start Num: 14

Candidate Starts for Findley_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (249, 11370), (251, 11382), (253, 11388), (259, 11406), (262, 11427), (266, 11451), (272, 11475), (301, 11484), (307, 11499), (311, 11511), (323, 11544), (332, 11592), (351, 11733), (352, 11739), (356, 11775), (362, 11802), (367, 11820), (374, 11850), (394, 11946), (402, 11979), (413, 12015), (428, 12066), (434, 12099), (438, 12120), (443, 12144), (448, 12174), (453, 12195), (492, 12339), (511, 12417), (537, 12510), (557, 12588), (590, 12711), (615, 12816), (632, 12864), (676, 13284), (677, 13293), (679, 13323), (707, 13488), (727, 13617), (743, 13710),

Gene: Fionnbharth_22 Start: 13314, Stop: 17489, Start Num: 16

Candidate Starts for Fionnbharth_22:

(9, 13278), (Start: 16 @13314 has 58 MA's), (35, 13512), (85, 13752), (87, 13761), (103, 13854), (122, 13956), (131, 14001), (142, 14061), (158, 14139), (169, 14217), (183, 14304), (184, 14307), (190, 14337), (194, 14370), (200, 14394), (215, 14478), (221, 14508), (226, 14535), (247, 14643), (250, 14664), (252, 14676), (256, 14688), (266, 14742), (303, 14901), (308, 14922), (324, 15030), (343, 15150), (395, 15492), (401, 15510), (411, 15561), (413, 15570), (423, 15615), (427, 15636), (452, 15756), (470, 15855), (471, 15867), (475, 15876), (494, 15948), (503, 15999), (504, 16002), (512, 16029), (540, 16128), (546, 16146), (559, 16221), (600, 16410), (602, 16422), (625, 16497), (634, 16527), (654, 16683), (662, 16803), (670, 16911), (684, 17061), (703, 17190), (705, 17193), (720, 17292), (726, 17319), (743, 17415), (750, 17478),

Gene: FlagStaff_16 Start: 11630, Stop: 15664, Start Num: 16

Candidate Starts for FlagStaff_16:

(Start: 16 @11630 has 58 MA's), (25, 11723), (29, 11753), (43, 11900), (62, 11984), (72, 12032), (97, 12158), (99, 12170), (103, 12191), (131, 12338), (134, 12359), (139, 12380), (142, 12398), (149, 12422), (151, 12434), (162, 12506), (165, 12521), (169, 12554), (192, 12686), (195, 12710), (200, 12731), (204, 12752), (206, 12764), (210, 12791), (212, 12803), (218, 12833), (226, 12881), (252, 13022), (253, 13025), (262, 13064), (266, 13088), (277, 13133), (278, 13136), (303, 13247), (342, 13451), (352, 13547), (355, 13556), (363, 13616), (384, 13730), (387, 13751), (400, 13811), (406, 13844), (413, 13874), (429, 13946), (433, 13976), (436, 13997), (455, 14102), (456, 14105), (467, 14159), (491, 14258), (494, 14276), (509, 14342), (513, 14357), (520, 14381), (533, 14423), (535, 14432), (550, 14492), (567, 14582), (588, 14678), (596, 14735), (602, 14768), (624, 14828), (631, 14843), (659, 15038), (676, 15245), (682, 15314), (684, 15326), (689, 15356), (697, 15416), (728, 15512), (741, 15572), (743, 15590),

Gene: Frosty24_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Frosty24_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Ganymede_22 Start: 12096, Stop: 15929, Start Num: 15

Candidate Starts for Ganymede_22:

(Start: 15 @12096 has 162 MA's), (Start: 23 @12165 has 1 MA's), (31, 12252), (59, 12429), (67, 12456), (85, 12540), (87, 12549), (99, 12621), (110, 12696), (129, 12780), (131, 12789), (134, 12810), (142, 12849), (158, 12927), (169, 13005), (184, 13095), (196, 13170), (214, 13263), (218, 13284), (220, 13293), (266, 13530), (276, 13569), (282, 13602), (303, 13689), (309, 13713), (324, 13797), (339, 13881), (342, 13893), (346, 13914), (401, 14070), (440, 14151), (451, 14199), (454, 14217), (457, 14238), (464, 14274), (476, 14325), (487, 14382), (503, 14460), (506, 14469), (527, 14547), (540, 14604), (556, 14658), (602, 14898), (625, 14973), (651, 15084), (664, 15303), (666, 15315), (684, 15498), (685, 15507), (696, 15579), (705, 15609), (709, 15630), (727, 15750), (739, 15822), (742, 15840), (743, 15846),

Gene: Gengar_19 Start: 12162, Stop: 16271, Start Num: 14

Candidate Starts for Gengar_19:

(Start: 14 @12162 has 31 MA's), (43, 12420), (62, 12504), (77, 12570), (87, 12618), (97, 12678), (99, 12690), (103, 12711), (110, 12765), (116, 12795), (131, 12858), (134, 12879), (148, 12936), (158, 12996), (169, 13074), (174, 13098), (180, 13140), (186, 13173), (214, 13332), (218, 13353), (238, 13431), (249, 13494), (252, 13509), (253, 13512), (256, 13521), (258, 13527), (260, 13539), (266, 13575), (270, 13593), (295, 13695), (303, 13734), (332, 13887), (340, 13929), (345, 13953), (355, 14043), (357, 14076), (370, 14142), (384, 14217), (385, 14226), (389, 14244), (394, 14271), (410, 14349), (429, 14433), (449, 14556), (461, 14622), (483, 14724), (503, 14817), (512, 14847), (519, 14874), (522, 14880), (535, 14931), (538, 14952), (542, 14967), (543, 14973), (559, 15057), (571, 15087), (573, 15105), (583, 15144), (594, 15204), (601, 15237), (606, 15258), (614, 15282), (621, 15315), (642, 15399), (653, 15471), (676, 15780), (680, 15834), (682, 15849), (684, 15861), (689, 15891), (722, 16077), (727, 16101), (729, 16113), (744, 16200), (747, 16224),

Gene: Geraldini_21 Start: 12092, Stop: 15925, Start Num: 15

Candidate Starts for Geraldini_21:

(Start: 15 @12092 has 162 MA's), (Start: 23 @12161 has 1 MA's), (Start: 24 @12182 has 1 MA's), (31, 12248), (59, 12425), (67, 12452), (84, 12524), (85, 12536), (87, 12545), (99, 12617), (110, 12692), (129, 12776), (131, 12785), (134, 12806), (142, 12845), (158, 12923), (169, 13001), (184, 13091), (196, 13166), (214, 13259), (216, 13268), (218, 13280), (220, 13289), (266, 13526), (276, 13565), (282, 13598), (303, 13685), (309, 13709), (324, 13793), (339, 13877), (342, 13889), (346, 13910), (401, 14066), (440, 14147), (451, 14195), (454, 14213), (457, 14234), (464, 14270), (476, 14321), (487, 14378), (503, 14456), (506, 14465), (527, 14543), (532, 14558), (540, 14600), (556, 14654), (602, 14894), (625, 14969), (651, 15080), (664, 15299), (666, 15311), (684, 15494), (685, 15503), (696, 15575), (705, 15605), (709, 15626), (727, 15746), (739, 15818), (742, 15836), (743, 15842),

Gene: Gideon_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Gideon_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: GoldenAsh_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for GoldenAsh_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Gomashi_16 Start: 11465, Stop: 15478, Start Num: 15

Candidate Starts for Gomashi_16:

(Start: 15 @11465 has 162 MA's), (35, 11666), (57, 11780), (67, 11822), (73, 11852), (99, 11987), (100, 11999), (103, 12008), (139, 12197), (142, 12215), (144, 12218), (149, 12239), (151, 12251), (162, 12323), (169, 12371), (192, 12503), (195, 12527), (210, 12608), (236, 12731), (249, 12815), (259, 12851), (266, 12896), (267, 12902), (293, 13010), (298, 13034), (303, 13055), (345, 13274), (363, 13424), (379, 13511), (400, 13619), (429, 13754), (446, 13865), (451, 13883), (456, 13913), (501, 14135), (509, 14159), (513, 14174), (518, 14195), (527, 14222), (535, 14249), (550, 14309), (567, 14399), (573, 14432), (588, 14495), (596, 14552), (602, 14585), (605, 14594), (678, 15098), (679, 15125), (682, 15155), (684, 15167), (685, 15176), (709, 15245), (728, 15326), (741, 15386), (743, 15404), (745, 15413),

Gene: Grizzly_16 Start: 11464, Stop: 15480, Start Num: 15

Candidate Starts for Grizzly_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (65, 11812), (67, 11821), (73, 11851), (99, 11986), (103, 12007), (131, 12154), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (256, 12841), (259, 12850), (267, 12901), (273, 12925), (279, 12952), (303, 13054), (343,

13261), (345, 13273), (361, 13420), (363, 13423), (400, 13618), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (520, 14197), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (575, 14446), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15100), (679, 15127), (682, 15157), (684, 15169), (685, 15178), (709, 15247), (728, 15328), (741, 15388), (743, 15406), (745, 15415),

Gene: Guanica15_21 Start: 11016, Stop: 15143, Start Num: 16

Candidate Starts for Guanica15_21:

(9, 10968), (Start: 16 @11016 has 58 MA's), (26, 11109), (42, 11241), (46, 11265), (53, 11295), (57, 11316), (60, 11328), (76, 11388), (91, 11475), (98, 11508), (101, 11526), (102, 11529), (114, 11601), (146, 11745), (152, 11787), (155, 11802), (161, 11838), (170, 11910), (190, 12012), (222, 12195), (229, 12222), (234, 12240), (235, 12246), (240, 12288), (255, 12360), (257, 12366), (260, 12381), (264, 12402), (267, 12420), (271, 12435), (281, 12483), (292, 12516), (295, 12531), (303, 12570), (308, 12591), (315, 12621), (344, 12789), (347, 12840), (374, 13005), (378, 13029), (389, 13086), (398, 13137), (405, 13170), (407, 13179), (424, 13251), (436, 13326), (439, 13344), (446, 13386), (451, 13404), (455, 13431), (457, 13443), (481, 13572), (488, 13590), (503, 13671), (504, 13674), (527, 13758), (539, 13812), (540, 13815), (559, 13908), (576, 13974), (602, 14109), (637, 14235), (676, 14631), (677, 14640), (684, 14712), (696, 14796), (727, 14964), (739, 15036), (743, 15060), (748, 15099),

Gene: Guillsminger_19 Start: 12137, Stop: 16246, Start Num: 14

Candidate Starts for Guillsminger_19:

(Start: 14 @12137 has 31 MA's), (43, 12395), (62, 12479), (77, 12545), (87, 12593), (97, 12653), (99, 12665), (103, 12686), (110, 12740), (116, 12770), (131, 12833), (134, 12854), (148, 12911), (158, 12971), (169, 13049), (174, 13073), (180, 13115), (186, 13148), (214, 13307), (218, 13328), (238, 13406), (249, 13469), (252, 13484), (253, 13487), (256, 13496), (258, 13502), (260, 13514), (266, 13550), (270, 13568), (295, 13670), (303, 13709), (332, 13862), (340, 13904), (345, 13928), (355, 14018), (357, 14051), (370, 14117), (384, 14192), (385, 14201), (389, 14219), (394, 14246), (410, 14324), (429, 14408), (449, 14531), (461, 14597), (483, 14699), (503, 14792), (512, 14822), (519, 14849), (522, 14855), (535, 14906), (538, 14927), (542, 14942), (543, 14948), (559, 15032), (571, 15062), (573, 15080), (583, 15119), (594, 15179), (601, 15212), (606, 15233), (614, 15257), (621, 15290), (642, 15374), (653, 15446), (676, 15755), (680, 15809), (682, 15824), (684, 15836), (689, 15866), (722, 16052), (727, 16076), (729, 16088), (744, 16175), (747, 16199),

Gene: Halo_16 Start: 11459, Stop: 15472, Start Num: 15

Candidate Starts for Halo_16:

(Start: 15 @11459 has 162 MA's), (35, 11660), (57, 11774), (67, 11816), (73, 11846), (99, 11981), (100, 11993), (103, 12002), (139, 12191), (142, 12209), (144, 12212), (149, 12233), (151, 12245), (162, 12317), (169, 12365), (192, 12497), (195, 12521), (210, 12602), (236, 12725), (249, 12809), (259, 12845), (266, 12890), (267, 12896), (293, 13004), (298, 13028), (303, 13049), (345, 13268), (363, 13418), (379, 13505), (400, 13613), (429, 13748), (446, 13859), (451, 13877), (456, 13907), (501, 14129), (509, 14153), (513, 14168), (518, 14189), (527, 14216), (535, 14243), (550, 14303), (567, 14393), (573, 14426), (588, 14489), (596, 14546), (602, 14579), (605, 14588), (678, 15092), (679, 15119), (682, 15149), (684, 15161), (685, 15170), (709, 15239), (728, 15320), (741, 15380), (743, 15398), (745, 15407),

Gene: Hammy_20 Start: 12190, Stop: 16329, Start Num: 15

Candidate Starts for Hammy_20:

(9, 12145), (Start: 15 @12190 has 162 MA's), (Start: 23 @12259 has 1 MA's), (31, 12346), (41, 12421), (59, 12523), (62, 12529), (67, 12550), (74, 12583), (77, 12595), (85, 12634), (87, 12643), (97, 12703), (99, 12715), (103, 12736), (110, 12790), (116, 12820), (131, 12883), (134, 12904), (142, 12943), (158, 13021), (169, 13099), (174, 13123), (204, 13297), (210, 13336), (211, 13345), (212, 13348), (218, 13378), (242, 13501), (245, 13516), (251, 13555), (262, 13600), (266, 13624), (291,

13726), (293, 13738), (295, 13744), (303, 13783), (323, 13909), (326, 13924), (333, 13960), (335, 13972), (344, 14017), (355, 14113), (393, 14332), (401, 14371), (404, 14392), (424, 14479), (429, 14503), (432, 14530), (433, 14533), (438, 14563), (446, 14614), (454, 14650), (476, 14758), (503, 14893), (504, 14896), (524, 14962), (526, 14968), (535, 15007), (551, 15079), (552, 15085), (556, 15106), (572, 15190), (577, 15220), (581, 15241), (584, 15253), (598, 15334), (603, 15367), (607, 15376), (610, 15382), (621, 15424), (628, 15442), (635, 15475), (636, 15481), (652, 15526), (664, 15736), (676, 15835), (677, 15844), (678, 15847), (684, 15916), (709, 16051), (718, 16120), (727, 16168), (743, 16264), (748, 16303),

Gene: HedwigODU_21 Start: 12079, Stop: 15918, Start Num: 15

Candidate Starts for HedwigODU_21:

(Start: 15 @12079 has 162 MA's), (Start: 23 @12148 has 1 MA's), (31, 12235), (59, 12412), (67, 12439), (84, 12511), (85, 12523), (87, 12532), (99, 12604), (110, 12679), (129, 12763), (131, 12772), (134, 12793), (142, 12832), (158, 12910), (169, 12988), (184, 13078), (196, 13153), (214, 13246), (216, 13255), (218, 13267), (220, 13276), (272, 13537), (276, 13552), (282, 13585), (303, 13672), (309, 13696), (324, 13780), (339, 13864), (342, 13876), (346, 13897), (401, 14053), (440, 14134), (451, 14182), (454, 14200), (457, 14221), (464, 14257), (476, 14308), (487, 14365), (503, 14443), (506, 14452), (527, 14530), (540, 14587), (556, 14641), (602, 14881), (625, 14956), (651, 15067), (664, 15286), (666, 15298), (684, 15487), (685, 15496), (696, 15568), (705, 15598), (709, 15619), (727, 15739), (739, 15811), (742, 15829), (743, 15835),

Gene: Heftyboy_19 Start: 12264, Stop: 16394, Start Num: 14

Candidate Starts for Heftyboy_19:

(Start: 14 @12264 has 31 MA's), (Start: 24 @12357 has 1 MA's), (32, 12435), (33, 12459), (43, 12519), (62, 12603), (65, 12615), (87, 12717), (97, 12777), (99, 12789), (103, 12810), (110, 12864), (122, 12912), (131, 12957), (134, 12978), (158, 13095), (169, 13173), (174, 13197), (184, 13263), (196, 13338), (214, 13431), (220, 13461), (253, 13635), (256, 13644), (262, 13674), (266, 13698), (271, 13719), (284, 13779), (303, 13857), (305, 13866), (321, 13944), (332, 14010), (340, 14052), (342, 14061), (349, 14145), (355, 14166), (357, 14199), (384, 14340), (385, 14349), (389, 14367), (394, 14394), (410, 14472), (429, 14556), (449, 14679), (461, 14745), (503, 14940), (512, 14970), (519, 14997), (522, 15003), (528, 15030), (538, 15075), (542, 15090), (543, 15096), (559, 15180), (573, 15228), (583, 15267), (594, 15327), (601, 15360), (606, 15381), (614, 15405), (621, 15438), (642, 15522), (653, 15594), (676, 15903), (680, 15957), (682, 15972), (684, 15984), (689, 16014), (722, 16200), (727, 16224), (729, 16236), (744, 16323), (747, 16347),

Gene: Homura_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Homura_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (649, 15089), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Hope_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Hope_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814),

(259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Hotshotbaby7_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Hotshotbaby7_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Hurricane_20 Start: 12208, Stop: 16356, Start Num: 15

Candidate Starts for Hurricane_20:

(Start: 15 @12208 has 162 MA's), (Start: 23 @12277 has 1 MA's), (Start: 24 @12298 has 1 MA's), (26, 12304), (31, 12364), (52, 12502), (62, 12547), (67, 12568), (70, 12589), (84, 12640), (97, 12721), (99, 12733), (103, 12754), (110, 12808), (119, 12850), (131, 12901), (134, 12922), (137, 12940), (144, 12964), (154, 13015), (158, 13039), (165, 13084), (169, 13117), (174, 13141), (204, 13315), (214, 13375), (218, 13396), (220, 13405), (251, 13573), (258, 13594), (262, 13618), (266, 13642), (271, 13663), (276, 13681), (280, 13702), (282, 13714), (293, 13756), (294, 13759), (303, 13801), (306, 13816), (319, 13879), (335, 13990), (341, 14020), (348, 14098), (369, 14218), (374, 14251), (391, 14341), (394, 14359), (401, 14389), (405, 14416), (446, 14632), (454, 14668), (469, 14743), (476, 14776), (477, 14788), (488, 14836), (503, 14917), (504, 14920), (540, 15037), (559, 15130), (579, 15208), (599, 15307), (602, 15331), (625, 15406), (676, 15865), (677, 15874), (678, 15877), (684, 15946), (685, 15955), (709, 16087), (719, 16147), (721, 16165), (729, 16201), (731, 16210), (742, 16276), (743, 16282), (746, 16297), (747, 16309),

Gene: Hyperbowlee_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Hyperbowlee_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Illumine_21 Start: 12077, Stop: 15931, Start Num: 15

Candidate Starts for Illumine_21:

(Start: 15 @12077 has 162 MA's), (Start: 23 @12146 has 1 MA's), (31, 12233), (59, 12413), (67, 12440), (85, 12524), (87, 12533), (97, 12593), (99, 12605), (110, 12680), (119, 12722), (129, 12764), (131, 12773), (134, 12794), (142, 12833), (158, 12911), (164, 12953), (169, 12989), (196, 13154), (214, 13247), (218, 13268), (220, 13277), (272, 13559), (276, 13574), (282, 13607), (303, 13694), (324, 13802), (339, 13886), (342, 13898), (346, 13919), (401, 14075), (440, 14156), (451, 14204),

(454, 14222), (457, 14243), (464, 14279), (476, 14330), (487, 14387), (503, 14465), (506, 14474), (527, 14552), (532, 14567), (540, 14609), (556, 14663), (579, 14780), (602, 14903), (625, 14978), (654, 15131), (664, 15308), (676, 15422), (684, 15503), (685, 15512), (696, 15584), (705, 15614), (709, 15635), (727, 15752), (739, 15824), (743, 15848),

Gene: Inky_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Inky_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: InvictusManeo_19 Start: 12240, Stop: 16346, Start Num: 14

Candidate Starts for InvictusManeo_19:

(Start: 14 @12240 has 31 MA's), (Start: 24 @12333 has 1 MA's), (32, 12411), (33, 12435), (43, 12495), (62, 12579), (65, 12591), (87, 12693), (97, 12753), (99, 12765), (103, 12786), (110, 12840), (122, 12888), (131, 12933), (134, 12954), (158, 13071), (169, 13149), (174, 13173), (184, 13239), (196, 13314), (214, 13407), (220, 13437), (253, 13611), (256, 13620), (262, 13650), (266, 13674), (271, 13695), (284, 13755), (303, 13833), (305, 13842), (321, 13920), (332, 13986), (340, 14028), (342, 14037), (349, 14121), (355, 14142), (357, 14175), (370, 14241), (374, 14262), (384, 14316), (385, 14325), (389, 14343), (393, 14361), (394, 14370), (401, 14400), (407, 14436), (419, 14490), (427, 14526), (429, 14532), (430, 14550), (449, 14655), (461, 14721), (503, 14916), (512, 14946), (522, 14979), (535, 15030), (538, 15051), (542, 15066), (543, 15072), (559, 15156), (573, 15204), (583, 15243), (594, 15303), (601, 15336), (606, 15357), (614, 15381), (621, 15411), (642, 15477), (653, 15549), (676, 15864), (677, 15873), (678, 15876), (680, 15918), (684, 15945), (689, 15975), (696, 16026), (700, 16044), (716, 16110), (722, 16158), (727, 16182), (729, 16194), (744, 16275), (747, 16299), (751, 16338),

Gene: JAWS_21 Start: 12070, Stop: 15903, Start Num: 15

Candidate Starts for JAWS_21:

(Start: 15 @12070 has 162 MA's), (Start: 23 @12139 has 1 MA's), (31, 12226), (41, 12301), (59, 12403), (67, 12430), (84, 12502), (85, 12514), (87, 12523), (99, 12595), (110, 12670), (129, 12754), (131, 12763), (134, 12784), (142, 12823), (151, 12859), (158, 12901), (169, 12979), (184, 13069), (196, 13144), (214, 13237), (216, 13246), (218, 13258), (220, 13267), (266, 13504), (276, 13543), (282, 13576), (303, 13663), (309, 13687), (324, 13771), (339, 13855), (342, 13867), (346, 13888), (401, 14044), (440, 14125), (451, 14173), (454, 14191), (457, 14212), (464, 14248), (476, 14299), (487, 14356), (503, 14434), (506, 14443), (527, 14521), (532, 14536), (540, 14578), (556, 14632), (602, 14872), (625, 14947), (651, 15058), (664, 15277), (666, 15289), (684, 15472), (685, 15481), (696, 15553), (705, 15583), (709, 15604), (727, 15724), (739, 15796), (742, 15814), (743, 15820),

Gene: JF1_22 Start: 13313, Stop: 17488, Start Num: 16

Candidate Starts for JF1_22:

(9, 13277), (Start: 16 @13313 has 58 MA's), (35, 13511), (85, 13751), (87, 13760), (103, 13853), (122, 13955), (131, 14000), (142, 14060), (158, 14138), (169, 14216), (183, 14303), (184, 14306), (190, 14336), (194, 14369), (200, 14393), (215, 14477), (221, 14507), (226, 14534), (247, 14642), (250, 14663), (252, 14675), (256, 14687), (266, 14741), (303, 14900), (308, 14921), (324, 15029), (343, 15149), (395, 15491), (401, 15509), (411, 15560), (413, 15569), (423, 15614), (427, 15635), (452, 15755), (470, 15854), (471, 15866), (475, 15875), (494, 15947), (503, 15998), (504, 16001), (512,

16028), (540, 16127), (546, 16145), (559, 16220), (600, 16409), (602, 16421), (625, 16496), (634, 16526), (654, 16682), (662, 16802), (670, 16910), (684, 17060), (700, 17180), (703, 17189), (705, 17192), (720, 17291), (726, 17318), (743, 17414), (750, 17477),

Gene: Jane_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Jane_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Jarvi_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Jarvi_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Jayhawk_21 Start: 12080, Stop: 15916, Start Num: 15

Candidate Starts for Jayhawk_21:

(Start: 15 @12080 has 162 MA's), (Start: 23 @12149 has 1 MA's), (31, 12236), (59, 12413), (67, 12440), (84, 12512), (85, 12524), (87, 12533), (99, 12605), (110, 12680), (129, 12764), (131, 12773), (134, 12794), (142, 12833), (158, 12911), (169, 12989), (184, 13079), (196, 13154), (214, 13247), (216, 13256), (218, 13268), (220, 13277), (272, 13538), (276, 13553), (282, 13586), (303, 13673), (309, 13697), (324, 13781), (339, 13865), (342, 13877), (346, 13898), (401, 14054), (440, 14135), (451, 14183), (454, 14201), (457, 14222), (464, 14258), (476, 14309), (487, 14366), (503, 14444), (506, 14453), (527, 14531), (540, 14588), (556, 14642), (602, 14882), (625, 14957), (651, 15068), (664, 15287), (666, 15299), (684, 15485), (685, 15494), (696, 15566), (705, 15596), (709, 15617), (727, 15737), (739, 15809), (742, 15827), (743, 15833),

Gene: Jeckyll_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Jeckyll_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Jolene_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Jolene_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Jolie2_16 Start: 10765, Stop: 14787, Start Num: 16

Candidate Starts for Jolie2_16:

(Start: 16 @10765 has 58 MA's), (Start: 23 @10834 has 1 MA's), (26, 10861), (39, 10975), (65, 11098), (70, 11122), (71, 11125), (80, 11158), (81, 11161), (88, 11203), (89, 11212), (111, 11344), (115, 11368), (120, 11386), (130, 11431), (135, 11455), (136, 11467), (146, 11509), (152, 11551), (160, 11596), (161, 11602), (169, 11665), (170, 11674), (173, 11686), (176, 11695), (180, 11728), (190, 11776), (222, 11953), (231, 11986), (232, 11989), (235, 12004), (257, 12124), (260, 12139), (263, 12157), (264, 12160), (271, 12193), (278, 12220), (289, 12265), (295, 12289), (298, 12307), (303, 12328), (322, 12424), (334, 12496), (364, 12703), (372, 12754), (389, 12844), (391, 12853), (394, 12871), (398, 12895), (401, 12901), (413, 12961), (423, 13006), (424, 13009), (425, 13015), (438, 13093), (443, 13126), (457, 13201), (501, 13414), (507, 13435), (508, 13438), (510, 13453), (521, 13486), (545, 13588), (562, 13678), (585, 13771), (592, 13825), (593, 13828), (600, 13861), (604, 13876), (618, 13915), (629, 13942), (654, 14080), (662, 14200), (668, 14287), (682, 14443), (684, 14455), (693, 14539), (703, 14578), (725, 14713),

Gene: Jonghyun_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Jonghyun_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: JorRay_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for JorRay_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Joy99_21 Start: 12045, Stop: 15878, Start Num: 15

Candidate Starts for Joy99_21:

(Start: 15 @12045 has 162 MA's), (Start: 23 @12114 has 1 MA's), (Start: 24 @12135 has 1 MA's), (31, 12201), (59, 12378), (67, 12405), (84, 12477), (85, 12489), (87, 12498), (99, 12570), (110, 12645), (129, 12729), (131, 12738), (134, 12759), (142, 12798), (158, 12876), (169, 12954), (184, 13044), (196, 13119), (214, 13212), (216, 13221), (218, 13233), (220, 13242), (266, 13479), (276, 13518), (282, 13551), (303, 13638), (309, 13662), (324, 13746), (339, 13830), (342, 13842), (346, 13863), (401, 14019), (440, 14100), (451, 14148), (454, 14166), (457, 14187), (464, 14223), (476, 14274), (487, 14331), (503, 14409), (506, 14418), (527, 14496), (532, 14511), (540, 14553), (556, 14607), (602, 14847), (625, 14922), (651, 15033), (664, 15252), (666, 15264), (684, 15447), (685, 15456), (696, 15528), (705, 15558), (709, 15579), (727, 15699), (739, 15771), (742, 15789), (743, 15795),

Gene: Juliette_22 Start: 13193, Stop: 17389, Start Num: 16

Candidate Starts for Juliette_22:

(Start: 16 @13193 has 58 MA's), (35, 13391), (80, 13604), (85, 13631), (87, 13640), (99, 13712), (103, 13733), (129, 13871), (131, 13880), (134, 13901), (142, 13940), (156, 14009), (158, 14018), (169, 14096), (171, 14108), (184, 14186), (190, 14216), (194, 14249), (195, 14252), (200, 14273), (226, 14414), (228, 14423), (252, 14555), (256, 14567), (266, 14621), (276, 14660), (282, 14693), (303, 14780), (308, 14801), (333, 14978), (343, 15029), (361, 15188), (401, 15389), (411, 15440), (413, 15449), (423, 15494), (427, 15515), (431, 15521), (452, 15635), (470, 15734), (471, 15746), (475, 15755), (494, 15827), (499, 15860), (503, 15878), (504, 15881), (512, 15908), (540, 16007), (546, 16025), (559, 16100), (600, 16289), (602, 16301), (625, 16376), (641, 16445), (654, 16577), (660, 16691), (684, 16958), (687, 16976), (703, 17087), (705, 17090), (720, 17189), (726, 17216), (727, 17219), (743, 17315), (750, 17378),

Gene: Kareem_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Kareem_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Kasen3_16 Start: 11465, Stop: 15478, Start Num: 15

Candidate Starts for Kasen3_16:

(Start: 15 @11465 has 162 MA's), (35, 11666), (57, 11780), (67, 11822), (73, 11852), (99, 11987), (100, 11999), (103, 12008), (139, 12197), (142, 12215), (144, 12218), (149, 12239), (151, 12251), (162, 12323), (169, 12371), (192, 12503), (195, 12527), (210, 12608), (236, 12731), (249, 12815), (259, 12851), (266, 12896), (267, 12902), (293, 13010), (298, 13034), (303, 13055), (345, 13274), (363, 13424), (379, 13511), (400, 13619), (429, 13754), (446, 13865), (451, 13883), (456, 13913), (501, 14135), (509, 14159), (513, 14174), (518, 14195), (527, 14222), (535, 14249), (550, 14309), (567, 14399), (573, 14432), (588, 14495), (596, 14552), (602, 14585), (605, 14594), (678, 15098), (679, 15125), (682, 15155), (684, 15167), (685, 15176), (709, 15245), (728, 15326), (741, 15386), (743, 15404), (745, 15413),

Gene: Keshu_20 Start: 12188, Stop: 16348, Start Num: 15

Candidate Starts for Keshu_20:

(Start: 15 @12188 has 162 MA's), (Start: 23 @12257 has 1 MA's), (Start: 24 @12278 has 1 MA's), (26, 12284), (31, 12344), (52, 12482), (57, 12506), (62, 12527), (67, 12548), (70, 12569), (97, 12701), (99, 12713), (103, 12734), (110, 12788), (116, 12818), (123, 12839), (129, 12872), (131, 12881), (134,

12902), (142, 12941), (158, 13019), (164, 13061), (169, 13097), (174, 13121), (204, 13295), (210, 13334), (214, 13355), (218, 13376), (220, 13385), (258, 13574), (262, 13598), (266, 13622), (271, 13643), (276, 13661), (282, 13694), (284, 13703), (293, 13736), (294, 13739), (295, 13742), (303, 13781), (305, 13790), (319, 13859), (335, 13970), (341, 14000), (348, 14078), (369, 14198), (374, 14231), (391, 14321), (394, 14339), (401, 14369), (405, 14396), (429, 14501), (433, 14531), (454, 14648), (464, 14705), (469, 14723), (473, 14744), (476, 14756), (488, 14816), (503, 14897), (504, 14900), (530, 14990), (540, 15020), (559, 15113), (579, 15191), (602, 15314), (625, 15389), (676, 15854), (678, 15866), (684, 15935), (685, 15944), (689, 15965), (719, 16139), (721, 16157), (729, 16193), (731, 16202), (742, 16268), (743, 16274), (746, 16289), (747, 16301),

Gene: KiSi_20 Start: 11011, Stop: 15084, Start Num: 16

Candidate Starts for KiSi_20:

(Start: 16 @11011 has 58 MA's), (26, 11104), (47, 11263), (48, 11272), (50, 11281), (74, 11374), (88, 11443), (89, 11452), (90, 11464), (91, 11470), (98, 11503), (105, 11539), (113, 11596), (115, 11608), (128, 11662), (133, 11692), (152, 11779), (155, 11794), (161, 11830), (190, 12004), (222, 12187), (224, 12196), (235, 12238), (240, 12280), (251, 12340), (255, 12352), (257, 12358), (260, 12373), (263, 12391), (264, 12394), (271, 12427), (300, 12550), (303, 12562), (304, 12568), (308, 12583), (310, 12589), (340, 12673), (348, 12754), (374, 12907), (392, 13003), (394, 13015), (401, 13045), (411, 13096), (415, 13117), (422, 13147), (424, 13153), (429, 13177), (438, 13237), (446, 13288), (455, 13333), (469, 13399), (476, 13432), (487, 13489), (503, 13567), (504, 13570), (527, 13654), (535, 13681), (540, 13711), (556, 13765), (559, 13804), (602, 14005), (625, 14080), (662, 14365), (664, 14422), (684, 14623), (699, 14737), (727, 14914), (739, 14998), (743, 15019),

Gene: Kratio_18 Start: 11868, Stop: 15977, Start Num: 14

Candidate Starts for Kratio_18:

(Start: 14 @11868 has 31 MA's), (Start: 24 @11961 has 1 MA's), (32, 12039), (33, 12063), (43, 12123), (62, 12207), (77, 12273), (87, 12321), (97, 12381), (99, 12393), (103, 12414), (110, 12468), (122, 12516), (131, 12561), (134, 12582), (158, 12699), (169, 12777), (174, 12801), (184, 12867), (196, 12942), (214, 13035), (220, 13065), (253, 13239), (256, 13248), (262, 13278), (266, 13302), (271, 13323), (284, 13383), (303, 13461), (305, 13470), (321, 13548), (332, 13614), (340, 13656), (349, 13749), (355, 13770), (357, 13803), (370, 13869), (374, 13890), (384, 13944), (385, 13953), (389, 13971), (393, 13989), (394, 13998), (401, 14028), (407, 14064), (427, 14154), (429, 14160), (430, 14178), (449, 14283), (461, 14349), (503, 14544), (512, 14574), (522, 14607), (535, 14658), (538, 14679), (542, 14694), (543, 14700), (559, 14784), (573, 14832), (583, 14871), (594, 14931), (601, 14964), (606, 14985), (614, 15009), (642, 15105), (653, 15177), (676, 15492), (677, 15501), (678, 15504), (680, 15546), (682, 15561), (684, 15573), (689, 15603), (696, 15654), (700, 15672), (722, 15789), (727, 15813), (729, 15825), (744, 15906), (747, 15930), (751, 15969),

Gene: Krueger_20 Start: 11051, Stop: 15055, Start Num: 16

Candidate Starts for Krueger_20:

(Start: 16 @11051 has 58 MA's), (26, 11144), (37, 11249), (47, 11303), (50, 11321), (55, 11339), (63, 11369), (69, 11396), (70, 11402), (83, 11447), (98, 11543), (101, 11561), (102, 11564), (125, 11678), (128, 11693), (152, 11810), (155, 11825), (166, 11906), (178, 11966), (179, 11975), (190, 12035), (222, 12218), (223, 12224), (237, 12281), (251, 12371), (255, 12383), (257, 12389), (260, 12404), (264, 12425), (267, 12443), (285, 12518), (294, 12551), (300, 12581), (303, 12593), (308, 12614), (317, 12653), (338, 12698), (342, 12713), (361, 12875), (374, 12938), (379, 12965), (393, 13037), (401, 13076), (411, 13127), (415, 13148), (422, 13178), (424, 13184), (429, 13208), (436, 13259), (445, 13313), (454, 13355), (457, 13376), (464, 13412), (476, 13463), (503, 13604), (504, 13607), (527, 13691), (535, 13718), (556, 13802), (602, 14042), (625, 14117), (676, 14555), (677, 14564), (684, 14636), (685, 14645), (696, 14720), (705, 14750), (709, 14771), (727, 14888), (739, 14963), (746, 15002), (747, 15014),

Gene: Larva_19 Start: 11980, Stop: 16092, Start Num: 14

Candidate Starts for Larva_19:

(Start: 14 @11980 has 31 MA's), (Start: 24 @12073 has 1 MA's), (32, 12151), (33, 12175), (43, 12235), (62, 12319), (87, 12433), (97, 12493), (99, 12505), (103, 12526), (110, 12580), (122, 12628), (131, 12673), (134, 12694), (158, 12811), (169, 12889), (174, 12913), (184, 12979), (196, 13054), (214, 13147), (220, 13177), (253, 13351), (262, 13390), (266, 13414), (271, 13435), (284, 13495), (303, 13573), (321, 13660), (332, 13726), (340, 13768), (342, 13777), (349, 13861), (355, 13882), (357, 13915), (370, 13981), (374, 14002), (384, 14056), (385, 14065), (389, 14083), (394, 14110), (401, 14140), (407, 14176), (427, 14266), (429, 14272), (430, 14290), (449, 14395), (461, 14461), (503, 14656), (512, 14686), (522, 14719), (535, 14770), (538, 14791), (542, 14806), (543, 14812), (559, 14896), (573, 14944), (583, 14983), (594, 15043), (601, 15076), (606, 15097), (614, 15121), (621, 15151), (642, 15217), (653, 15289), (676, 15604), (677, 15613), (678, 15616), (679, 15643), (680, 15658), (682, 15673), (684, 15685), (689, 15715), (696, 15769), (700, 15787), (716, 15856), (722, 15904), (727, 15928), (729, 15940), (731, 15949), (744, 16021), (747, 16045), (751, 16084),

Gene: LastHope_21 Start: 11090, Stop: 15217, Start Num: 16

Candidate Starts for LastHope_21:

(9, 11042), (Start: 16 @11090 has 58 MA's), (26, 11183), (42, 11315), (46, 11339), (53, 11369), (57, 11390), (60, 11402), (63, 11408), (69, 11435), (76, 11462), (91, 11549), (98, 11582), (101, 11600), (102, 11603), (108, 11645), (118, 11693), (146, 11819), (152, 11861), (155, 11876), (161, 11912), (170, 11984), (190, 12086), (214, 12224), (222, 12269), (233, 12311), (234, 12314), (235, 12320), (237, 12332), (240, 12362), (251, 12422), (257, 12440), (260, 12455), (263, 12473), (264, 12476), (271, 12509), (292, 12590), (295, 12605), (303, 12644), (308, 12665), (339, 12842), (342, 12854), (347, 12914), (354, 12956), (374, 13079), (378, 13103), (389, 13160), (392, 13175), (393, 13178), (405, 13244), (407, 13253), (413, 13277), (424, 13325), (436, 13400), (439, 13418), (451, 13478), (455, 13505), (457, 13517), (464, 13553), (469, 13571), (478, 13616), (481, 13646), (488, 13664), (503, 13745), (504, 13748), (527, 13832), (532, 13847), (539, 13886), (540, 13889), (559, 13982), (576, 14048), (602, 14183), (662, 14534), (676, 14705), (684, 14786), (689, 14816), (696, 14870), (727, 15038), (739, 15110), (742, 15128), (743, 15134),

Gene: LaterM_21 Start: 12043, Stop: 15876, Start Num: 15

Candidate Starts for LaterM_21:

(Start: 15 @12043 has 162 MA's), (Start: 23 @12112 has 1 MA's), (31, 12199), (59, 12379), (67, 12406), (85, 12490), (87, 12499), (97, 12559), (99, 12571), (110, 12646), (119, 12688), (129, 12730), (131, 12739), (134, 12760), (142, 12799), (158, 12877), (169, 12955), (196, 13120), (214, 13213), (218, 13234), (220, 13243), (266, 13480), (272, 13504), (276, 13519), (282, 13552), (303, 13639), (324, 13747), (339, 13831), (342, 13843), (346, 13864), (354, 13945), (401, 14020), (440, 14101), (442, 14110), (451, 14149), (454, 14167), (457, 14188), (464, 14224), (476, 14275), (487, 14332), (503, 14410), (506, 14419), (527, 14497), (532, 14512), (540, 14554), (556, 14608), (602, 14848), (625, 14923), (651, 15034), (664, 15253), (676, 15367), (684, 15448), (685, 15457), (696, 15529), (705, 15559), (709, 15580), (727, 15697), (739, 15769), (743, 15793),

Gene: LeMond_20 Start: 11082, Stop: 15155, Start Num: 16

Candidate Starts for LeMond_20:

(Start: 16 @11082 has 58 MA's), (26, 11175), (42, 11307), (74, 11445), (89, 11523), (90, 11535), (91, 11541), (98, 11574), (105, 11610), (113, 11667), (115, 11679), (128, 11733), (133, 11763), (152, 11850), (155, 11865), (161, 11901), (176, 11994), (190, 12075), (222, 12258), (224, 12267), (235, 12309), (240, 12351), (251, 12411), (255, 12423), (257, 12429), (260, 12444), (264, 12465), (271, 12498), (300, 12621), (303, 12633), (304, 12639), (308, 12654), (310, 12660), (340, 12744), (348, 12825), (374, 12978), (392, 13074), (401, 13116), (411, 13167), (415, 13188), (422, 13218), (424, 13224), (429, 13248), (438, 13308), (446, 13359), (455, 13404), (457, 13416), (469, 13470), (476, 13503), (487, 13560), (503, 13638), (504, 13641), (527, 13725), (540, 13782), (556, 13836), (559, 13875), (587, 13980), (602, 14076), (625, 14151), (651, 14274), (664, 14493), (684, 14694), (699, 14808), (727, 14985), (739, 15069), (743, 15090),

Gene: Lemuria_16 Start: 10811, Stop: 14821, Start Num: 16

Candidate Starts for Lemuria_16:

(Start: 16 @10811 has 58 MA's), (26, 10907), (36, 11012), (39, 11021), (65, 11144), (70, 11168), (71, 11171), (80, 11204), (81, 11207), (89, 11258), (94, 11285), (101, 11327), (108, 11372), (116, 11408), (117, 11417), (118, 11420), (120, 11423), (133, 11489), (146, 11546), (152, 11588), (161, 11639), (168, 11699), (170, 11711), (173, 11723), (176, 11732), (190, 11813), (213, 11942), (222, 11990), (230, 12020), (233, 12032), (235, 12041), (240, 12083), (251, 12143), (257, 12161), (260, 12176), (264, 12197), (271, 12230), (278, 12257), (280, 12269), (289, 12302), (295, 12326), (298, 12344), (303, 12365), (322, 12461), (334, 12533), (372, 12791), (378, 12824), (394, 12908), (400, 12935), (406, 12968), (413, 12998), (422, 13040), (424, 13046), (438, 13130), (447, 13184), (469, 13292), (501, 13451), (508, 13475), (510, 13490), (517, 13514), (545, 13625), (561, 13712), (562, 13715), (582, 13802), (585, 13811), (593, 13868), (600, 13901), (618, 13955), (629, 13982), (653, 14096), (668, 14324), (673, 14390), (678, 14426), (682, 14483), (684, 14495), (693, 14573), (703, 14612), (710, 14639), (725, 14747),

Gene: Leston_19 Start: 12267, Stop: 16376, Start Num: 14

Candidate Starts for Leston_19:

(Start: 14 @12267 has 31 MA's), (43, 12525), (62, 12609), (77, 12675), (87, 12723), (97, 12783), (99, 12795), (103, 12816), (110, 12870), (116, 12900), (131, 12963), (134, 12984), (148, 13041), (158, 13101), (169, 13179), (174, 13203), (180, 13245), (186, 13278), (214, 13437), (218, 13458), (238, 13536), (249, 13599), (252, 13614), (253, 13617), (256, 13626), (258, 13632), (260, 13644), (266, 13680), (270, 13698), (295, 13800), (303, 13839), (332, 13992), (340, 14034), (345, 14058), (355, 14148), (357, 14181), (370, 14247), (384, 14322), (385, 14331), (389, 14349), (394, 14376), (410, 14454), (429, 14538), (449, 14661), (461, 14727), (483, 14829), (503, 14922), (512, 14952), (519, 14979), (522, 14985), (535, 15036), (538, 15057), (542, 15072), (543, 15078), (559, 15162), (571, 15192), (573, 15210), (583, 15249), (594, 15309), (601, 15342), (606, 15363), (614, 15387), (621, 15420), (642, 15504), (653, 15576), (676, 15885), (680, 15939), (682, 15954), (684, 15966), (689, 15996), (722, 16182), (727, 16206), (729, 16218), (744, 16305), (747, 16329),

Gene: Liefie_16 Start: 11463, Stop: 15476, Start Num: 15

Candidate Starts for Liefie_16:

(Start: 15 @11463 has 162 MA's), (35, 11664), (56, 11766), (57, 11778), (67, 11820), (70, 11841), (73, 11850), (99, 11985), (100, 11997), (103, 12006), (139, 12195), (142, 12213), (144, 12216), (149, 12237), (151, 12249), (162, 12321), (169, 12369), (192, 12501), (195, 12525), (210, 12606), (236, 12729), (249, 12813), (259, 12849), (266, 12894), (267, 12900), (293, 13008), (298, 13032), (303, 13053), (345, 13272), (363, 13422), (379, 13509), (400, 13617), (429, 13752), (445, 13857), (446, 13863), (451, 13881), (456, 13911), (501, 14133), (509, 14157), (513, 14172), (518, 14193), (535, 14247), (550, 14307), (567, 14397), (573, 14430), (588, 14493), (596, 14550), (602, 14583), (605, 14592), (678, 15096), (679, 15123), (682, 15153), (684, 15165), (685, 15174), (709, 15243), (728, 15324), (741, 15384), (743, 15402), (745, 15411),

Gene: LilPharaoh_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for LilPharaoh_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (231, 12578), (241, 12638), (251, 12695), (261, 12731), (266, 12764), (272, 12788), (287, 12854), (290, 12863), (303, 12923), (324, 13031), (332, 13076), (355, 13232), (372, 13343), (374, 13352), (376, 13364), (385, 13415), (389, 13433), (394, 13460), (401, 13490), (420, 13583), (429, 13622), (457, 13790), (469, 13844), (476, 13877), (485, 13922), (503, 14003), (504, 14006), (527, 14090), (530, 14096), (532, 14105), (540, 14147), (553, 14183), (556, 14201), (559, 14240), (574, 14300), (602, 14441), (621, 14501), (625, 14516), (666, 14858), (684, 15047), (685, 15056),

(694, 15119), (743, 15395),

Gene: LindNT_21 Start: 12047, Stop: 15883, Start Num: 15

Candidate Starts for LindNT_21:

(Start: 15 @12047 has 162 MA's), (Start: 23 @12116 has 1 MA's), (31, 12203), (59, 12383), (67, 12410), (87, 12503), (97, 12563), (99, 12575), (110, 12650), (123, 12701), (131, 12743), (134, 12764), (142, 12803), (158, 12881), (169, 12959), (174, 12983), (196, 13124), (214, 13217), (216, 13226), (218, 13238), (220, 13247), (266, 13484), (272, 13508), (276, 13523), (282, 13556), (303, 13643), (309, 13667), (324, 13751), (339, 13835), (342, 13847), (346, 13868), (354, 13949), (401, 14024), (440, 14105), (451, 14153), (454, 14171), (456, 14183), (457, 14192), (464, 14228), (476, 14279), (487, 14336), (503, 14414), (506, 14423), (527, 14501), (532, 14516), (540, 14558), (556, 14612), (602, 14852), (625, 14927), (651, 15038), (664, 15257), (666, 15269), (676, 15371), (684, 15452), (685, 15461), (696, 15533), (705, 15563), (709, 15584), (727, 15704), (739, 15776), (742, 15794), (743, 15800),

Gene: Llorens_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Llorens_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: LouisV14_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for LouisV14_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Lunahalos_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Lunahalos_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: MOOREtheMARYer_16 Start: 11710, Stop: 15720, Start Num: 16

Candidate Starts for MOOREtheMARYer_16:

(Start: 16 @11710 has 58 MA's), (26, 11806), (50, 11986), (57, 12016), (64, 12040), (69, 12061), (74, 12079), (91, 12175), (93, 12181), (96, 12196), (98, 12208), (101, 12226), (107, 12268), (108, 12271), (116, 12307), (118, 12319), (126, 12349), (129, 12361), (131, 12370), (146, 12445), (152, 12487), (155, 12502), (161, 12538), (162, 12553), (169, 12601), (170, 12610), (190, 12712), (205, 12796), (215, 12853), (222, 12895), (231, 12928), (232, 12931), (233, 12937), (235, 12946), (240, 12988), (255, 13060), (257, 13066), (260, 13081), (263, 13099), (264, 13102), (278, 13162), (289, 13207), (295, 13231), (298, 13249), (303, 13270), (309, 13294), (312, 13306), (313, 13309), (322, 13366), (334, 13438), (342, 13480), (364, 13645), (379, 13732), (384, 13759), (387, 13780), (401, 13843), (411, 13894), (424, 13951), (429, 13975), (436, 14026), (443, 14068), (469, 14197), (490, 14287), (493, 14302), (494, 14305), (508, 14371), (510, 14386), (530, 14452), (541, 14506), (545, 14521), (560, 14602), (562, 14611), (585, 14704), (593, 14761), (600, 14794), (618, 14848), (623, 14869), (678, 15325), (679, 15352), (681, 15379), (684, 15394), (685, 15403), (696, 15490), (723, 15628), (725, 15646), (729, 15661),

Gene: MacnCheese_21 Start: 12433, Stop: 16590, Start Num: 15

Candidate Starts for MacnCheese_21:

(4, 12283), (Start: 15 @12433 has 162 MA's), (Start: 24 @12523 has 1 MA's), (26, 12529), (31, 12589), (57, 12751), (74, 12826), (85, 12877), (87, 12886), (97, 12946), (99, 12958), (103, 12979), (110, 13033), (131, 13126), (134, 13147), (142, 13186), (149, 13210), (158, 13264), (165, 13309), (169, 13342), (174, 13366), (204, 13540), (218, 13621), (251, 13798), (262, 13843), (266, 13867), (271, 13888), (281, 13936), (293, 13981), (298, 14005), (303, 14026), (319, 14104), (330, 14182), (340, 14242), (341, 14245), (344, 14260), (374, 14476), (383, 14524), (391, 14566), (394, 14584), (401, 14614), (404, 14635), (406, 14644), (413, 14674), (429, 14746), (433, 14776), (454, 14893), (457, 14914), (464, 14950), (469, 14968), (476, 15001), (482, 15046), (488, 15061), (503, 15142), (504, 15145), (525, 15214), (527, 15229), (530, 15235), (532, 15244), (556, 15340), (559, 15379), (599, 15556), (602, 15580), (625, 15655), (672, 16069), (676, 16099), (677, 16108), (678, 16111), (685, 16189), (688, 16207), (689, 16210), (719, 16384), (721, 16402), (731, 16447), (736, 16480), (743, 16516), (746, 16531), (747, 16543),

Gene: Maco6_17 Start: 10697, Stop: 14146, Start Num: 28

Candidate Starts for Maco6_17:

(Start: 28 @10697 has 2 MA's), (30, 10712), (34, 10760), (38, 10763), (45, 10808), (82, 10931), (143, 11258), (147, 11270), (150, 11291), (163, 11375), (170, 11429), (172, 11438), (181, 11492), (182, 11501), (187, 11525), (188, 11534), (193, 11576), (204, 11621), (206, 11633), (209, 11654), (214, 11678), (219, 11708), (225, 11732), (244, 11807), (246, 11819), (250, 11843), (251, 11852), (269, 11930), (316, 11987), (336, 12056), (368, 12272), (377, 12317), (403, 12440), (421, 12518), (431, 12551), (435, 12578), (438, 12590), (458, 12698), (459, 12707), (486, 12800), (495, 12830), (505, 12866), (515, 12896), (521, 12914), (528, 12941), (530, 12944), (548, 12998), (549, 13001), (567, 13091), (578, 13139), (580, 13154), (587, 13172), (591, 13187), (599, 13247), (605, 13280), (609, 13289), (612, 13298), (622, 13334), (626, 13349), (650, 13421), (658, 13544), (675, 13739), (685, 13835), (688, 13853), (694, 13895), (695, 13901), (703, 13928), (722, 14030), (724, 14039), (731, 14078),

Gene: Maliketh_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Maliketh_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385),

(743, 15403), (745, 15412),

Gene: Malthus_22 Start: 13237, Stop: 17412, Start Num: 16

Candidate Starts for Malthus_22:

(9, 13201), (Start: 16 @13237 has 58 MA's), (35, 13435), (85, 13675), (87, 13684), (103, 13777), (122, 13879), (131, 13924), (142, 13984), (158, 14062), (169, 14140), (183, 14227), (184, 14230), (190, 14260), (194, 14293), (200, 14317), (215, 14401), (221, 14431), (226, 14458), (247, 14566), (250, 14587), (252, 14599), (256, 14611), (266, 14665), (303, 14824), (308, 14845), (324, 14953), (343, 15073), (395, 15415), (401, 15433), (411, 15484), (413, 15493), (423, 15538), (427, 15559), (452, 15679), (470, 15778), (471, 15790), (475, 15799), (494, 15871), (503, 15922), (504, 15925), (512, 15952), (540, 16051), (546, 16069), (559, 16144), (600, 16333), (602, 16345), (625, 16420), (634, 16450), (654, 16606), (662, 16726), (670, 16834), (684, 16984), (703, 17113), (705, 17116), (720, 17215), (726, 17242), (743, 17338), (750, 17401),

Gene: Marcoliusprime_17 Start: 10116, Stop: 13784, Start Num: 14

Candidate Starts for Marcoliusprime_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (249, 11370), (251, 11382), (253, 11388), (259, 11406), (262, 11427), (266, 11451), (272, 11475), (301, 11484), (307, 11499), (311, 11511), (323, 11544), (332, 11592), (351, 11733), (352, 11739), (356, 11775), (362, 11802), (367, 11820), (394, 11946), (412, 12012), (428, 12066), (434, 12099), (438, 12120), (443, 12144), (448, 12174), (453, 12195), (511, 12417), (537, 12510), (557, 12588), (590, 12711), (615, 12816), (632, 12864), (671, 13251), (676, 13281), (677, 13290), (679, 13320), (707, 13485), (727, 13614), (743, 13707),

Gene: MarkPhew_21 Start: 10973, Stop: 15046, Start Num: 16

Candidate Starts for MarkPhew_21:

(2, 10757), (9, 10937), (Start: 16 @10973 has 58 MA's), (26, 11066), (42, 11198), (47, 11225), (48, 11234), (64, 11297), (74, 11336), (78, 11351), (89, 11414), (90, 11426), (98, 11465), (113, 11558), (115, 11570), (128, 11624), (152, 11741), (155, 11756), (161, 11792), (168, 11852), (169, 11855), (178, 11897), (190, 11966), (222, 12149), (235, 12200), (237, 12212), (251, 12302), (255, 12314), (257, 12320), (260, 12335), (267, 12374), (300, 12512), (303, 12524), (304, 12530), (308, 12545), (310, 12551), (374, 12869), (383, 12917), (385, 12932), (394, 12977), (401, 13007), (411, 13058), (415, 13079), (424, 13115), (429, 13139), (457, 13307), (464, 13343), (469, 13361), (476, 13394), (487, 13451), (503, 13529), (504, 13532), (527, 13616), (556, 13727), (559, 13766), (587, 13871), (602, 13967), (625, 14042), (664, 14390), (684, 14588), (727, 14876), (729, 14888), (739, 14960), (743, 14981),

Gene: Marmie_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Marmie_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Marshawn_22 Start: 11657, Stop: 15661, Start Num: 16

Candidate Starts for Marshawn_22:

(1, 11312), (2, 11444), (9, 11621), (Start: 16 @11657 has 58 MA's), (19, 11681), (26, 11750), (47, 11909), (48, 11918), (63, 11975), (88, 12089), (89, 12098), (90, 12110), (96, 12137), (98, 12149), (102, 12170), (114, 12251), (128, 12308), (133, 12338), (152, 12425), (155, 12440), (156, 12449), (161, 12476), (169, 12539), (170, 12548), (190, 12650), (203, 12725), (222, 12833), (231, 12866), (238, 12908), (240, 12926), (251, 12986), (255, 12998), (257, 13004), (260, 13019), (263, 13037), (264, 13040), (267, 13058), (271, 13073), (279, 13109), (292, 13154), (293, 13163), (296, 13178), (300, 13196), (303, 13208), (304, 13214), (308, 13229), (310, 13235), (341, 13322), (354, 13430), (374, 13553), (385, 13616), (394, 13661), (401, 13691), (411, 13742), (424, 13799), (429, 13823), (440, 13904), (451, 13952), (457, 13991), (464, 14027), (476, 14078), (503, 14219), (504, 14222), (527, 14306), (532, 14321), (540, 14363), (559, 14456), (602, 14657), (625, 14732), (643, 14810), (662, 15026), (664, 15083), (678, 15212), (679, 15239), (684, 15281), (696, 15371), (699, 15383), (712, 15422), (734, 15548), (738, 15572), (739, 15575), (743, 15596),

Gene: McMater_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for McMater_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (233, 12361), (235, 12370), (237, 12382), (238, 12394), (240, 12412), (251, 12472), (255, 12484), (257, 12490), (260, 12505), (263, 12523), (264, 12526), (267, 12544), (271, 12559), (280, 12598), (295, 12655), (296, 12664), (303, 12694), (308, 12715), (315, 12745), (320, 12778), (334, 12862), (339, 12892), (342, 12904), (354, 13006), (366, 13084), (374, 13129), (378, 13153), (388, 13207), (389, 13210), (392, 13225), (401, 13267), (405, 13294), (407, 13303), (411, 13318), (412, 13324), (413, 13327), (439, 13468), (445, 13504), (446, 13510), (451, 13528), (455, 13555), (457, 13567), (469, 13621), (476, 13654), (488, 13714), (503, 13795), (504, 13798), (527, 13882), (532, 13897), (559, 14032), (576, 14098), (602, 14233), (662, 14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (739, 15181), (742, 15199), (743, 15205), (748, 15244),

Gene: Mdavu_17 Start: 11315, Stop: 15448, Start Num: 15

Candidate Starts for Mdavu_17:

(10, 11276), (Start: 15 @11315 has 162 MA's), (Start: 23 @11384 has 1 MA's), (31, 11471), (41, 11549), (62, 11657), (67, 11678), (74, 11711), (99, 11843), (101, 11858), (103, 11864), (110, 11918), (116, 11948), (131, 12011), (134, 12032), (142, 12071), (158, 12149), (169, 12227), (174, 12251), (214, 12485), (231, 12566), (241, 12626), (251, 12683), (261, 12719), (266, 12752), (272, 12776), (287, 12842), (290, 12851), (303, 12911), (324, 13019), (332, 13064), (355, 13220), (372, 13331), (374, 13340), (376, 13352), (385, 13403), (389, 13421), (394, 13448), (401, 13478), (420, 13571), (429, 13610), (457, 13778), (469, 13832), (476, 13865), (485, 13910), (503, 13991), (504, 13994), (527, 14078), (530, 14084), (532, 14093), (540, 14135), (553, 14171), (556, 14189), (559, 14228), (574, 14288), (602, 14429), (621, 14489), (625, 14504), (666, 14846), (684, 15035), (685, 15044), (694, 15107), (743, 15383),

Gene: MeaningOfLife_21 Start: 12052, Stop: 15885, Start Num: 15

Candidate Starts for MeaningOfLife_21:

(Start: 15 @12052 has 162 MA's), (Start: 23 @12121 has 1 MA's), (Start: 24 @12142 has 1 MA's), (31, 12208), (59, 12385), (67, 12412), (84, 12484), (85, 12496), (87, 12505), (99, 12577), (110, 12652), (129, 12736), (131, 12745), (134, 12766), (142, 12805), (158, 12883), (169, 12961), (184, 13051), (196, 13126), (214, 13219), (216, 13228), (218, 13240), (220, 13249), (266, 13486), (276, 13525), (282, 13558), (303, 13645), (309, 13669), (324, 13753), (339, 13837), (342, 13849), (346, 13870), (401, 14026), (440, 14107), (451, 14155), (454, 14173), (457, 14194), (464, 14230), (476, 14281), (487, 14338), (503, 14416), (506, 14425), (527, 14503), (532, 14518), (540, 14560), (556, 14614), (602, 14854), (625, 14929), (651, 15040), (664, 15259), (666, 15271), (684, 15454), (685,

15463), (696, 15535), (705, 15565), (709, 15586), (727, 15706), (739, 15778), (742, 15796), (743, 15802),

Gene: Megsy_21 Start: 12050, Stop: 15886, Start Num: 15

Candidate Starts for Megsy_21:

(Start: 15 @12050 has 162 MA's), (Start: 23 @12119 has 1 MA's), (31, 12206), (59, 12386), (67, 12413), (87, 12506), (97, 12566), (99, 12578), (110, 12653), (123, 12704), (131, 12746), (134, 12767), (142, 12806), (158, 12884), (169, 12962), (174, 12986), (196, 13127), (214, 13220), (216, 13229), (218, 13241), (220, 13250), (266, 13487), (272, 13511), (276, 13526), (282, 13559), (303, 13646), (309, 13670), (324, 13754), (339, 13838), (342, 13850), (346, 13871), (354, 13952), (401, 14027), (440, 14108), (451, 14156), (454, 14174), (456, 14186), (457, 14195), (464, 14231), (476, 14282), (487, 14339), (503, 14417), (506, 14426), (527, 14504), (532, 14519), (556, 14615), (602, 14855), (625, 14930), (651, 15041), (664, 15260), (666, 15272), (676, 15374), (684, 15455), (685, 15464), (696, 15536), (705, 15566), (709, 15587), (727, 15707), (739, 15779), (742, 15797), (743, 15803),

Gene: Mercurio_17 Start: 11458, Stop: 15474, Start Num: 16

Candidate Starts for Mercurio_17:

(Start: 16 @11458 has 58 MA's), (48, 11725), (65, 11791), (70, 11815), (71, 11818), (78, 11842), (80, 11851), (81, 11854), (89, 11905), (94, 11932), (101, 11974), (108, 12019), (112, 12037), (113, 12040), (118, 12067), (130, 12115), (133, 12136), (146, 12193), (152, 12235), (160, 12280), (161, 12286), (169, 12349), (170, 12358), (173, 12370), (176, 12379), (190, 12460), (222, 12637), (230, 12667), (231, 12670), (235, 12688), (237, 12700), (240, 12730), (246, 12757), (251, 12790), (257, 12808), (260, 12823), (264, 12844), (271, 12877), (278, 12904), (289, 12949), (295, 12973), (298, 12991), (303, 13012), (322, 13108), (331, 13153), (334, 13180), (350, 13309), (372, 13438), (394, 13555), (400, 13582), (406, 13615), (423, 13690), (424, 13693), (438, 13777), (443, 13810), (455, 13873), (501, 14098), (508, 14122), (510, 14137), (517, 14161), (545, 14272), (560, 14353), (562, 14362), (585, 14455), (593, 14512), (600, 14545), (604, 14560), (682, 15139), (684, 15151), (686, 15166), (696, 15238), (710, 15289), (725, 15397),

Gene: Milly_17 Start: 10116, Stop: 13784, Start Num: 14

Candidate Starts for Milly_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (249, 11370), (251, 11382), (253, 11388), (259, 11406), (262, 11427), (266, 11451), (272, 11475), (301, 11484), (307, 11499), (311, 11511), (323, 11544), (332, 11592), (351, 11733), (352, 11739), (356, 11775), (362, 11802), (367, 11820), (374, 11850), (394, 11946), (402, 11979), (412, 12012), (428, 12066), (434, 12099), (438, 12120), (443, 12144), (448, 12174), (453, 12195), (511, 12417), (537, 12510), (557, 12588), (590, 12711), (615, 12816), (632, 12864), (676, 13281), (677, 13290), (679, 13320), (707, 13485), (727, 13614), (743, 13707),

Gene: Miryou_19 Start: 12115, Stop: 16230, Start Num: 14

Candidate Starts for Miryou_19:

(Start: 14 @12115 has 31 MA's), (43, 12373), (62, 12457), (77, 12523), (87, 12571), (97, 12631), (99, 12643), (103, 12664), (110, 12718), (116, 12748), (131, 12811), (134, 12832), (148, 12889), (158, 12949), (164, 12991), (169, 13027), (174, 13051), (180, 13093), (186, 13126), (214, 13285), (218, 13306), (238, 13384), (249, 13447), (252, 13462), (253, 13465), (256, 13474), (258, 13480), (260, 13492), (266, 13528), (270, 13546), (295, 13648), (303, 13687), (332, 13840), (340, 13882), (345, 13906), (355, 13996), (357, 14029), (370, 14095), (384, 14170), (385, 14179), (389, 14197), (394, 14224), (410, 14302), (429, 14386), (449, 14509), (461, 14575), (483, 14677), (503, 14770), (512, 14800), (519, 14827), (522, 14833), (535, 14884), (538, 14905), (542, 14920), (543, 14926), (559, 15010), (571, 15040), (573, 15058), (583, 15097), (594, 15157), (601, 15190), (606, 15211), (614,

15235), (621, 15268), (642, 15352), (653, 15424), (676, 15739), (680, 15793), (682, 15808), (684, 15820), (689, 15850), (722, 16036), (729, 16072), (744, 16159), (747, 16183),

Gene: MissDaisy_22 Start: 13088, Stop: 17254, Start Num: 16

Candidate Starts for MissDaisy_22:

(9, 13052), (Start: 16 @13088 has 58 MA's), (35, 13286), (84, 13514), (85, 13526), (87, 13535), (90, 13565), (103, 13628), (131, 13775), (134, 13796), (142, 13835), (144, 13838), (158, 13913), (169, 13991), (183, 14078), (184, 14081), (190, 14111), (194, 14144), (200, 14168), (215, 14252), (221, 14282), (226, 14309), (247, 14417), (250, 14438), (252, 14450), (256, 14462), (266, 14516), (303, 14675), (308, 14696), (324, 14804), (343, 14924), (379, 15173), (401, 15284), (411, 15335), (413, 15344), (423, 15389), (427, 15410), (447, 15509), (451, 15524), (452, 15530), (465, 15599), (469, 15620), (470, 15629), (471, 15641), (475, 15650), (494, 15722), (503, 15773), (504, 15776), (512, 15803), (540, 15902), (546, 15920), (559, 15995), (600, 16184), (602, 16196), (625, 16271), (654, 16451), (662, 16571), (670, 16679), (675, 16739), (684, 16826), (689, 16856), (700, 16946), (703, 16955), (705, 16958), (720, 17057), (726, 17084), (743, 17180), (750, 17243),

Gene: Mitti_22 Start: 13237, Stop: 17412, Start Num: 16

Candidate Starts for Mitti_22:

(9, 13201), (Start: 16 @13237 has 58 MA's), (35, 13435), (85, 13675), (87, 13684), (103, 13777), (131, 13924), (134, 13945), (142, 13984), (144, 13987), (158, 14062), (169, 14140), (183, 14227), (184, 14230), (190, 14260), (194, 14293), (200, 14317), (215, 14401), (221, 14431), (226, 14458), (247, 14566), (250, 14587), (252, 14599), (256, 14611), (266, 14665), (303, 14824), (308, 14845), (324, 14953), (343, 15073), (401, 15433), (411, 15484), (413, 15493), (423, 15538), (427, 15559), (470, 15778), (471, 15790), (475, 15799), (494, 15871), (503, 15922), (504, 15925), (512, 15952), (540, 16051), (546, 16069), (559, 16144), (600, 16333), (602, 16345), (625, 16420), (654, 16606), (662, 16726), (670, 16834), (684, 16984), (700, 17104), (703, 17113), (705, 17116), (720, 17215), (726, 17242), (743, 17338), (750, 17401),

Gene: Mowgli_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Mowgli_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Muddy_19 Start: 11647, Stop: 15096, Start Num: 28

Candidate Starts for Muddy_19:

(Start: 28 @11647 has 2 MA's), (30, 11662), (34, 11710), (38, 11713), (45, 11758), (82, 11881), (138, 12187), (143, 12208), (147, 12220), (150, 12241), (163, 12325), (170, 12379), (172, 12388), (187, 12475), (188, 12484), (193, 12526), (204, 12571), (206, 12583), (209, 12604), (214, 12628), (225, 12682), (239, 12736), (244, 12757), (246, 12769), (250, 12793), (251, 12802), (269, 12880), (273, 12898), (316, 12937), (336, 13006), (346, 13060), (358, 13180), (367, 13216), (368, 13222), (375, 13255), (377, 13267), (403, 13390), (431, 13501), (435, 13528), (438, 13540), (458, 13648), (459, 13657), (486, 13750), (495, 13780), (505, 13816), (515, 13846), (521, 13864), (528, 13891), (530, 13894), (548, 13948), (549, 13951), (567, 14041), (578, 14089), (580, 14104), (587, 14122), (591, 14137), (599, 14197), (605, 14230), (609, 14239), (612, 14248), (622, 14284), (626, 14299), (658, 14494), (675, 14689), (685, 14785), (688, 14803), (694, 14845), (695, 14851), (703, 14878), (722, 14980), (724, 14989), (731, 15028),

Gene: Mufasa_17 Start: 10138, Stop: 13812, Start Num: 14

Candidate Starts for Mufasa_17:

(Start: 14 @10138 has 31 MA's), (Start: 23 @10210 has 1 MA's), (32, 10309), (66, 10444), (84, 10495), (99, 10588), (110, 10663), (131, 10756), (134, 10777), (139, 10798), (140, 10804), (158, 10894), (164, 10936), (169, 10972), (177, 11005), (178, 11017), (181, 11041), (184, 11062), (189, 11086), (190, 11092), (195, 11128), (196, 11137), (204, 11170), (206, 11182), (210, 11209), (249, 11392), (251, 11404), (253, 11410), (262, 11449), (266, 11473), (301, 11506), (308, 11524), (311, 11533), (323, 11566), (351, 11755), (352, 11761), (356, 11797), (362, 11824), (367, 11842), (371, 11860), (374, 11872), (394, 11968), (402, 12001), (412, 12034), (428, 12088), (434, 12121), (438, 12142), (443, 12166), (448, 12196), (453, 12217), (496, 12385), (498, 12403), (511, 12439), (537, 12532), (557, 12610), (590, 12733), (632, 12886), (671, 13273), (676, 13303), (677, 13312), (679, 13342), (687, 13402), (707, 13510), (727, 13642), (743, 13735),

Gene: Murucutumbu_21 Start: 12036, Stop: 15869, Start Num: 15

Candidate Starts for Murucutumbu_21:

(Start: 15 @12036 has 162 MA's), (Start: 23 @12105 has 1 MA's), (31, 12192), (59, 12372), (67, 12399), (85, 12483), (87, 12492), (97, 12552), (99, 12564), (110, 12639), (119, 12681), (129, 12723), (131, 12732), (134, 12753), (142, 12792), (158, 12870), (169, 12948), (196, 13113), (214, 13206), (218, 13227), (220, 13236), (266, 13473), (272, 13497), (276, 13512), (282, 13545), (303, 13632), (324, 13740), (339, 13824), (342, 13836), (346, 13857), (354, 13938), (401, 14013), (440, 14094), (442, 14103), (451, 14142), (454, 14160), (457, 14181), (464, 14217), (476, 14268), (487, 14325), (503, 14403), (506, 14412), (527, 14490), (532, 14505), (540, 14547), (556, 14601), (602, 14841), (625, 14916), (651, 15027), (664, 15246), (676, 15360), (684, 15441), (685, 15450), (696, 15522), (705, 15552), (709, 15573), (727, 15690), (739, 15762), (743, 15786),

Gene: Mynx_21 Start: 12099, Stop: 15932, Start Num: 15

Candidate Starts for Mynx_21:

(Start: 15 @12099 has 162 MA's), (Start: 23 @12168 has 1 MA's), (31, 12255), (59, 12432), (67, 12459), (84, 12531), (85, 12543), (87, 12552), (99, 12624), (110, 12699), (129, 12783), (131, 12792), (134, 12813), (142, 12852), (158, 12930), (169, 13008), (184, 13098), (196, 13173), (214, 13266), (216, 13275), (218, 13287), (220, 13296), (266, 13533), (276, 13572), (282, 13605), (303, 13692), (309, 13716), (324, 13800), (339, 13884), (342, 13896), (346, 13917), (401, 14073), (440, 14154), (451, 14202), (454, 14220), (457, 14241), (464, 14277), (476, 14328), (487, 14385), (503, 14463), (506, 14472), (527, 14550), (532, 14565), (540, 14607), (556, 14661), (602, 14901), (625, 14976), (651, 15087), (664, 15306), (666, 15318), (684, 15501), (685, 15510), (696, 15582), (705, 15612), (709, 15633), (727, 15753), (739, 15825), (742, 15843), (743, 15849),

Gene: Nibb_20 Start: 11122, Stop: 15189, Start Num: 16

Candidate Starts for Nibb_20:

(9, 11086), (Start: 16 @11122 has 58 MA's), (42, 11347), (47, 11374), (48, 11383), (74, 11485), (98, 11614), (113, 11707), (115, 11719), (128, 11773), (133, 11803), (152, 11890), (155, 11905), (168, 12001), (169, 12004), (178, 12046), (190, 12115), (222, 12298), (235, 12349), (237, 12361), (240, 12391), (251, 12451), (255, 12463), (257, 12469), (260, 12484), (263, 12502), (264, 12505), (298, 12652), (300, 12661), (303, 12673), (304, 12679), (308, 12694), (310, 12700), (340, 12784), (347, 12853), (374, 13018), (383, 13066), (394, 13126), (401, 13156), (411, 13207), (415, 13228), (424, 13264), (433, 13318), (457, 13456), (469, 13510), (476, 13543), (480, 13561), (487, 13600), (503, 13678), (504, 13681), (527, 13765), (540, 13822), (553, 13858), (556, 13876), (559, 13915), (602, 14116), (617, 14158), (625, 14191), (664, 14533), (684, 14731), (727, 15019), (729, 15031), (739, 15103), (743, 15124),

Gene: Nikao_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Nikao_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (231, 12578), (241, 12638), (251, 12695), (261, 12731), (266, 12764), (272, 12788), (287, 12854), (290, 12863), (303, 12923), (324, 13031), (332, 13076), (355, 13232), (372, 13343), (374, 13352), (376, 13364), (385, 13415), (389, 13433), (394, 13460), (401, 13490), (420, 13583), (429, 13622), (432, 13649), (457, 13790), (469, 13844), (476, 13877), (485, 13922), (503, 14003), (504, 14006), (527, 14090), (530, 14096), (532, 14105), (540, 14147), (553, 14183), (556, 14201), (559, 14240), (574, 14300), (602, 14441), (621, 14501), (625, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: Niklas_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for Niklas_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (233, 12361), (235, 12370), (237, 12382), (238, 12394), (240, 12412), (251, 12472), (255, 12484), (257, 12490), (260, 12505), (263, 12523), (264, 12526), (267, 12544), (271, 12559), (280, 12598), (295, 12655), (296, 12664), (303, 12694), (308, 12715), (315, 12745), (320, 12778), (334, 12862), (339, 12892), (342, 12904), (354, 13006), (366, 13084), (374, 13129), (378, 13153), (388, 13207), (389, 13210), (392, 13225), (401, 13267), (405, 13294), (407, 13303), (411, 13318), (412, 13324), (413, 13327), (439, 13468), (445, 13504), (446, 13510), (451, 13528), (455, 13555), (457, 13567), (469, 13621), (476, 13654), (488, 13714), (503, 13795), (504, 13798), (527, 13882), (532, 13897), (559, 14032), (576, 14098), (602, 14233), (662, 14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (739, 15181), (742, 15199), (743, 15205), (748, 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), (Start: 12 @10323 has 1 MA's), (13, 10344), (44, 10602), (51, 10635), (53, 10638), (60, 10671), (75, 10728), (79, 10743), (80, 10746), (89, 10800), (92, 10821), (96, 10839), (98, 10851), (102, 10872), (104, 10881), (107, 10911), (131, 11013), (132, 11022), (139, 11055), (153, 11121), (155, 11133), (156, 11142), (163, 11187), (167, 11220), (169, 11232), (175, 11259), (190, 11343), (203, 11418), (208, 11457), (218, 11502), (222, 11526), (233, 11568), (234, 11571), (235, 11577), (237, 11589), (244, 11634), (255, 11691), (257, 11697), (260, 11712), (263, 11730), (271, 11766), (276, 11784), (279, 11802), (286, 11829), (289, 11838), (298, 11880), (299, 11886), (308, 11922), (310, 11928), (317, 11961), (320, 11985), (324, 12009), (355, 12213), (357, 12246), (359, 12258), (367, 12294), (382, 12378), (383, 12384), (399, 12477), (408, 12519), (410, 12531), (412, 12540), (417, 12564), (425, 12597), (436, 12675), (440, 12705), (443, 12717), (444, 12726), (449, 12747), (460, 12801), (470, 12846), (484, 12921), (497, 12996), (508, 13032), (514, 13059), (516, 13068), (520, 13080), (531, 13116), (560, 13257), (562, 13266), (576, 13311), (585, 13344), (593, 13398), (600, 13431), (613, 13470), (619, 13491), (627, 13518), (648, 13599), (656, 13680), (657, 13692), (675, 13938), (679, 13983), (684, 14025), (688, 14052), (692, 14106), (698, 14127), (701, 14142), (703, 14148), (713, 14202), (714, 14208), (719, 14244), (730, 14301), (732, 14310),

Gene: Nutello_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Nutello_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (231, 12578), (241, 12638), (251, 12695), (261, 12731), (266, 12764), (272, 12788), (287, 12854), (290, 12863), (303, 12923), (324, 13031), (332, 13076), (355, 13232), (372, 13343),

(374, 13352), (376, 13364), (385, 13415), (389, 13433), (394, 13460), (401, 13490), (420, 13583), (429, 13622), (457, 13790), (469, 13844), (476, 13877), (485, 13922), (503, 14003), (504, 14006), (527, 14090), (530, 14096), (532, 14105), (540, 14147), (553, 14183), (556, 14201), (559, 14240), (574, 14300), (602, 14441), (621, 14501), (625, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: OctaviousRex_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for OctaviousRex_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: OkiRoe_19 Start: 12137, Stop: 16246, Start Num: 14

Candidate Starts for OkiRoe_19:

(Start: 14 @12137 has 31 MA's), (43, 12395), (62, 12479), (77, 12545), (87, 12593), (97, 12653), (99, 12665), (103, 12686), (110, 12740), (116, 12770), (131, 12833), (134, 12854), (148, 12911), (158, 12971), (169, 13049), (174, 13073), (180, 13115), (186, 13148), (214, 13307), (218, 13328), (238, 13406), (249, 13469), (252, 13484), (253, 13487), (256, 13496), (258, 13502), (260, 13514), (270, 13568), (295, 13670), (303, 13709), (332, 13862), (340, 13904), (345, 13928), (355, 14018), (357, 14051), (384, 14192), (385, 14201), (389, 14219), (394, 14246), (410, 14324), (429, 14408), (449, 14531), (461, 14597), (483, 14699), (503, 14792), (512, 14822), (519, 14849), (522, 14855), (535, 14906), (538, 14927), (542, 14942), (543, 14948), (559, 15032), (573, 15080), (583, 15119), (594, 15179), (601, 15212), (606, 15233), (614, 15257), (621, 15290), (642, 15374), (653, 15446), (676, 15755), (680, 15809), (682, 15824), (684, 15836), (689, 15866), (722, 16052), (729, 16088), (744, 16175), (747, 16199),

Gene: Olga_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Olga_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: OmniCritical_22 Start: 13225, Stop: 17397, Start Num: 16

Candidate Starts for OmniCritical_22:

(9, 13189), (Start: 16 @13225 has 58 MA's), (35, 13423), (85, 13663), (87, 13672), (103, 13765), (131, 13912), (134, 13933), (142, 13972), (144, 13975), (158, 14050), (169, 14128), (183, 14215), (184, 14218), (190, 14248), (194, 14281), (200, 14305), (215, 14389), (221, 14419), (226, 14446), (247, 14554), (250, 14575), (252, 14587), (256, 14599), (266, 14653), (303, 14812), (308, 14833), (324, 14941), (343, 15061), (401, 15421), (411, 15472), (413, 15481), (423, 15526), (427, 15547), (470, 15766), (471, 15778), (475, 15787), (494, 15859), (503, 15910), (504, 15913), (512, 15940), (540, 16039), (546, 16057), (559, 16132), (600, 16321), (602, 16333), (625, 16408), (654, 16594), (662,

16714), (670, 16822), (684, 16969), (700, 17089), (703, 17098), (705, 17101), (720, 17200), (726, 17227), (743, 17323), (750, 17386),

Gene: Omnicron_19 Start: 11169, Stop: 15011, Start Num: 14

Candidate Starts for Omnicron_19:

(Start: 14 @11169 has 31 MA's), (39, 11355), (41, 11367), (56, 11433), (57, 11445), (61, 11457), (66, 11475), (67, 11478), (99, 11631), (103, 11652), (110, 11706), (116, 11736), (122, 11754), (127, 11784), (129, 11790), (131, 11799), (134, 11820), (140, 11847), (158, 11937), (169, 12015), (177, 12048), (178, 12060), (182, 12093), (191, 12138), (195, 12171), (204, 12213), (206, 12225), (207, 12228), (235, 12348), (238, 12372), (250, 12438), (253, 12453), (256, 12462), (258, 12468), (266, 12516), (327, 12627), (329, 12636), (337, 12687), (338, 12693), (342, 12708), (345, 12723), (355, 12813), (357, 12846), (382, 12975), (384, 12987), (385, 12996), (389, 13014), (392, 13029), (394, 13041), (401, 13071), (409, 13110), (413, 13131), (414, 13140), (422, 13173), (425, 13185), (427, 13197), (429, 13203), (438, 13263), (439, 13272), (448, 13326), (452, 13338), (483, 13488), (503, 13569), (504, 13572), (519, 13626), (534, 13674), (536, 13683), (539, 13707), (566, 13827), (567, 13830), (588, 13917), (591, 13926), (599, 13986), (605, 14019), (611, 14034), (613, 14040), (625, 14085), (633, 14106), (638, 14133), (657, 14268), (661, 14343), (669, 14451), (676, 14520), (677, 14529), (678, 14532), (679, 14559), (684, 14601), (689, 14631), (696, 14688), (703, 14715), (716, 14775), (727, 14847), (731, 14868), (744, 14940), (747, 14964), (752, 15003),

Gene: Oscar_20 Start: 11083, Stop: 15156, Start Num: 16

Candidate Starts for Oscar_20:

(Start: 16 @11083 has 58 MA's), (26, 11176), (42, 11308), (74, 11446), (89, 11524), (90, 11536), (91, 11542), (98, 11575), (105, 11611), (113, 11668), (115, 11680), (128, 11734), (133, 11764), (152, 11851), (155, 11866), (161, 11902), (176, 11995), (190, 12076), (222, 12259), (224, 12268), (235, 12310), (240, 12352), (251, 12412), (255, 12424), (257, 12430), (260, 12445), (264, 12466), (271, 12499), (300, 12622), (303, 12634), (304, 12640), (308, 12655), (310, 12661), (340, 12745), (348, 12826), (374, 12979), (392, 13075), (394, 13087), (401, 13117), (411, 13168), (415, 13189), (422, 13219), (424, 13225), (429, 13249), (438, 13309), (446, 13360), (455, 13405), (457, 13417), (469, 13471), (476, 13504), (487, 13561), (503, 13639), (504, 13642), (527, 13726), (535, 13753), (540, 13783), (556, 13837), (559, 13876), (602, 14077), (617, 14119), (625, 14152), (628, 14158), (662, 14437), (664, 14494), (684, 14695), (699, 14809), (727, 14986), (739, 15070), (743, 15091),

Gene: Pace1224_16 Start: 11630, Stop: 15664, Start Num: 16

Candidate Starts for Pace1224_16:

(Start: 16 @11630 has 58 MA's), (25, 11723), (29, 11753), (43, 11900), (62, 11984), (72, 12032), (97, 12158), (99, 12170), (103, 12191), (131, 12338), (134, 12359), (139, 12380), (142, 12398), (149, 12422), (151, 12434), (162, 12506), (165, 12521), (169, 12554), (192, 12686), (195, 12710), (200, 12731), (204, 12752), (206, 12764), (210, 12791), (212, 12803), (218, 12833), (226, 12881), (252, 13022), (262, 13064), (266, 13088), (277, 13133), (278, 13136), (303, 13247), (342, 13451), (345, 13466), (352, 13547), (355, 13556), (363, 13616), (384, 13730), (387, 13751), (400, 13811), (406, 13844), (413, 13874), (429, 13946), (433, 13976), (436, 13997), (455, 14102), (456, 14105), (467, 14159), (491, 14258), (494, 14276), (509, 14342), (513, 14357), (520, 14381), (533, 14423), (535, 14432), (550, 14492), (567, 14582), (588, 14678), (596, 14735), (602, 14768), (624, 14828), (631, 14843), (659, 15038), (676, 15245), (682, 15314), (684, 15326), (689, 15356), (697, 15416), (728, 15512), (741, 15572), (743, 15590),

Gene: Padfoot_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Padfoot_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589),

(282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Padpat_21 Start: 12076, Stop: 15909, Start Num: 15

Candidate Starts for Padpat_21:

(Start: 15 @12076 has 162 MA's), (Start: 23 @12145 has 1 MA's), (31, 12232), (41, 12307), (59, 12409), (67, 12436), (84, 12508), (85, 12520), (87, 12529), (99, 12601), (110, 12676), (129, 12760), (131, 12769), (134, 12790), (142, 12829), (158, 12907), (169, 12985), (184, 13075), (196, 13150), (214, 13243), (216, 13252), (218, 13264), (220, 13273), (266, 13510), (276, 13549), (282, 13582), (303, 13669), (309, 13693), (324, 13777), (339, 13861), (342, 13873), (346, 13894), (401, 14050), (440, 14131), (451, 14179), (454, 14197), (457, 14218), (464, 14254), (476, 14305), (487, 14362), (503, 14440), (506, 14449), (527, 14527), (532, 14542), (540, 14584), (556, 14638), (602, 14878), (625, 14953), (651, 15064), (664, 15283), (666, 15295), (684, 15478), (685, 15487), (696, 15559), (705, 15589), (709, 15610), (727, 15730), (739, 15802), (742, 15820), (743, 15826),

Gene: Paito_16 Start: 11582, Stop: 15610, Start Num: 15

Candidate Starts for Paito_16:

(Start: 15 @11582 has 162 MA's), (35, 11783), (56, 11885), (57, 11897), (62, 11918), (69, 11954), (73, 11969), (84, 12011), (99, 12104), (103, 12125), (129, 12263), (131, 12272), (139, 12314), (142, 12332), (144, 12335), (149, 12356), (151, 12368), (162, 12440), (169, 12488), (195, 12644), (236, 12848), (238, 12869), (248, 12920), (260, 12977), (266, 13013), (282, 13085), (288, 13106), (297, 13145), (303, 13172), (314, 13220), (318, 13241), (324, 13280), (342, 13376), (345, 13391), (361, 13538), (363, 13541), (383, 13649), (439, 13940), (446, 13982), (451, 14000), (456, 14030), (457, 14039), (500, 14246), (501, 14252), (509, 14276), (513, 14291), (518, 14312), (520, 14315), (535, 14366), (550, 14426), (563, 14507), (567, 14516), (573, 14549), (575, 14564), (588, 14612), (596, 14669), (602, 14702), (608, 14717), (630, 14780), (678, 15224), (679, 15251), (684, 15293), (685, 15302), (717, 15401), (728, 15458), (741, 15518), (743, 15536), (745, 15545),

Gene: Paola_19 Start: 12137, Stop: 16246, Start Num: 14

Candidate Starts for Paola_19:

(Start: 14 @12137 has 31 MA's), (43, 12395), (62, 12479), (77, 12545), (87, 12593), (97, 12653), (99, 12665), (103, 12686), (110, 12740), (116, 12770), (131, 12833), (134, 12854), (148, 12911), (158, 12971), (169, 13049), (174, 13073), (180, 13115), (186, 13148), (214, 13307), (218, 13328), (238, 13406), (249, 13469), (252, 13484), (253, 13487), (256, 13496), (258, 13502), (260, 13514), (266, 13550), (270, 13568), (295, 13670), (303, 13709), (332, 13862), (340, 13904), (345, 13928), (355, 14018), (357, 14051), (370, 14117), (384, 14192), (385, 14201), (389, 14219), (394, 14246), (410, 14324), (429, 14408), (449, 14531), (461, 14597), (483, 14699), (503, 14792), (512, 14822), (519, 14849), (522, 14855), (535, 14906), (538, 14927), (542, 14942), (543, 14948), (559, 15032), (571, 15062), (573, 15080), (583, 15119), (594, 15179), (601, 15212), (606, 15233), (614, 15257), (621, 15290), (642, 15374), (653, 15446), (676, 15755), (680, 15809), (682, 15824), (684, 15836), (689, 15866), (722, 16052), (727, 16076), (729, 16088), (744, 16175), (747, 16199),

Gene: Patt_22 Start: 13064, Stop: 17230, Start Num: 16

Candidate Starts for Patt_22:

(9, 13028), (Start: 16 @13064 has 58 MA's), (35, 13262), (84, 13490), (85, 13502), (87, 13511), (90, 13541), (103, 13604), (131, 13751), (134, 13772), (142, 13811), (144, 13814), (158, 13889), (169, 13967), (183, 14054), (184, 14057), (190, 14087), (194, 14120), (200, 14144), (215, 14228), (221, 14258), (226, 14285), (247, 14393), (250, 14414), (252, 14426), (256, 14438), (266, 14492), (303, 14651), (308, 14672), (324, 14780), (343, 14900), (379, 15149), (401, 15260), (411, 15311), (413, 15320), (423, 15365), (427, 15386), (447, 15485), (451, 15500), (452, 15506), (465, 15575), (469,

15596), (470, 15605), (471, 15617), (475, 15626), (494, 15698), (503, 15749), (504, 15752), (512, 15779), (540, 15878), (546, 15896), (559, 15971), (600, 16160), (602, 16172), (625, 16247), (654, 16427), (662, 16547), (670, 16655), (675, 16715), (684, 16802), (689, 16832), (700, 16922), (703, 16931), (705, 16934), (720, 17033), (726, 17060), (743, 17156), (750, 17219),

Gene: Peanam_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for Peanam_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (233, 12361), (235, 12370), (237, 12382), (238, 12394), (240, 12412), (251, 12472), (255, 12484), (257, 12490), (260, 12505), (263, 12523), (264, 12526), (267, 12544), (271, 12559), (280, 12598), (295, 12655), (296, 12664), (303, 12694), (308, 12715), (315, 12745), (320, 12778), (334, 12862), (339, 12892), (342, 12904), (354, 13006), (366, 13084), (374, 13129), (378, 13153), (388, 13207), (389, 13210), (392, 13225), (401, 13267), (405, 13294), (407, 13303), (411, 13318), (412, 13324), (413, 13327), (439, 13468), (445, 13504), (446, 13510), (451, 13528), (455, 13555), (457, 13567), (469, 13621), (476, 13654), (488, 13714), (503, 13795), (504, 13798), (527, 13882), (532, 13897), (559, 14032), (576, 14098), (602, 14233), (662, 14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (739, 15181), (742, 15199), (743, 15205), (748, 15244),

Gene: Peeb_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Peeb_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Peel_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Peel_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Periodt_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Periodt_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308),

(567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Pharb_20 Start: 12014, Stop: 16198, Start Num: 15

Candidate Starts for Pharb_20:

(8, 11966), (Start: 15 @12014 has 162 MA's), (Start: 23 @12083 has 1 MA's), (Start: 24 @12104 has 1 MA's), (26, 12110), (31, 12170), (62, 12353), (65, 12365), (67, 12374), (85, 12458), (97, 12527), (99, 12539), (103, 12560), (110, 12614), (116, 12644), (131, 12707), (134, 12728), (142, 12767), (158, 12845), (169, 12923), (174, 12947), (204, 13121), (211, 13169), (214, 13181), (218, 13202), (220, 13211), (243, 13331), (258, 13400), (261, 13415), (266, 13448), (271, 13469), (273, 13478), (280, 13508), (282, 13520), (293, 13562), (294, 13565), (295, 13568), (303, 13607), (319, 13685), (330, 13763), (335, 13796), (341, 13826), (348, 13904), (361, 13994), (369, 14024), (374, 14057), (391, 14147), (401, 14195), (429, 14327), (433, 14357), (446, 14438), (454, 14474), (464, 14531), (469, 14549), (476, 14582), (488, 14642), (503, 14723), (515, 14762), (525, 14795), (527, 14810), (530, 14816), (532, 14825), (540, 14867), (556, 14921), (559, 14960), (579, 15038), (602, 15161), (625, 15236), (655, 15425), (672, 15665), (676, 15695), (678, 15707), (685, 15785), (707, 15914), (721, 16001), (722, 16004), (729, 16037), (736, 16082), (743, 16118), (746, 16133), (747, 16145), (750, 16181),

Gene: PhelpsODU_20 Start: 11123, Stop: 15124, Start Num: 16

Candidate Starts for PhelpsODU_20:

(Start: 16 @11123 has 58 MA's), (26, 11216), (37, 11321), (47, 11375), (50, 11393), (55, 11411), (60, 11435), (63, 11441), (69, 11468), (70, 11474), (74, 11486), (83, 11519), (98, 11615), (101, 11633), (102, 11636), (125, 11750), (128, 11765), (152, 11882), (166, 11978), (173, 12017), (178, 12038), (179, 12047), (190, 12107), (222, 12290), (223, 12296), (224, 12299), (237, 12353), (240, 12383), (251, 12443), (255, 12455), (257, 12461), (260, 12476), (264, 12497), (267, 12515), (300, 12653), (303, 12665), (308, 12686), (317, 12725), (341, 12779), (342, 12785), (354, 12887), (361, 12947), (374, 13010), (389, 13091), (392, 13106), (393, 13109), (401, 13148), (407, 13184), (411, 13199), (412, 13205), (418, 13232), (424, 13256), (436, 13331), (446, 13391), (457, 13448), (464, 13484), (476, 13535), (503, 13676), (504, 13679), (527, 13763), (535, 13790), (556, 13874), (559, 13913), (602, 14114), (625, 14189), (659, 14408), (665, 14522), (676, 14624), (677, 14633), (684, 14705), (696, 14789), (705, 14819), (709, 14840), (727, 14957), (739, 15032), (746, 15071), (747, 15083),

Gene: Phish_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Phish_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Phrank_20 Start: 11071, Stop: 15072, Start Num: 16

Candidate Starts for Phrank_20:

(Start: 16 @11071 has 58 MA's), (26, 11164), (37, 11269), (42, 11296), (47, 11323), (50, 11341), (55, 11359), (60, 11383), (63, 11389), (69, 11416), (70, 11422), (80, 11458), (83, 11467), (86, 11491), (98, 11563), (101, 11581), (102, 11584), (128, 11713), (152, 11830), (166, 11926), (173, 11965), (179, 11995), (190, 12055), (222, 12238), (223, 12244), (224, 12247), (237, 12301), (240, 12331), (251, 12391), (255, 12403), (257, 12409), (260, 12424), (264, 12445), (267, 12463), (300, 12601), (303,

12613), (308, 12634), (317, 12673), (341, 12727), (342, 12733), (361, 12895), (374, 12958), (389, 13039), (392, 13054), (401, 13096), (411, 13147), (415, 13168), (422, 13198), (424, 13204), (429, 13228), (436, 13279), (446, 13339), (457, 13396), (464, 13432), (469, 13450), (476, 13483), (503, 13624), (504, 13627), (527, 13711), (535, 13738), (556, 13822), (602, 14062), (625, 14137), (665, 14470), (676, 14572), (677, 14581), (684, 14653), (696, 14737), (705, 14767), (709, 14788), (727, 14905), (739, 14980), (746, 15019), (747, 15031),

Gene: Phreak_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Phreak_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Piatt_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Piatt_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: PinkYoshi_16 Start: 11455, Stop: 15468, Start Num: 15

Candidate Starts for PinkYoshi_16:

(Start: 15 @11455 has 162 MA's), (35, 11656), (57, 11770), (67, 11812), (73, 11842), (99, 11977), (100, 11989), (103, 11998), (139, 12187), (142, 12205), (144, 12208), (149, 12229), (151, 12241), (162, 12313), (169, 12361), (192, 12493), (195, 12517), (210, 12598), (236, 12721), (249, 12805), (259, 12841), (266, 12886), (267, 12892), (293, 13000), (298, 13024), (303, 13045), (345, 13264), (363, 13414), (379, 13501), (400, 13609), (429, 13744), (446, 13855), (451, 13873), (456, 13903), (501, 14125), (509, 14149), (513, 14164), (518, 14185), (527, 14212), (535, 14239), (550, 14299), (567, 14389), (573, 14422), (588, 14485), (596, 14542), (602, 14575), (605, 14584), (678, 15088), (679, 15115), (682, 15145), (684, 15157), (685, 15166), (709, 15235), (728, 15316), (741, 15376), (743, 15394), (745, 15403),

Gene: Pinnie_17 Start: 12158, Stop: 16180, Start Num: 16

Candidate Starts for Pinnie_17:

(Start: 16 @12158 has 58 MA's), (21, 12203), (36, 12359), (37, 12362), (50, 12434), (55, 12452), (57, 12464), (69, 12509), (74, 12527), (91, 12623), (93, 12629), (96, 12644), (98, 12656), (101, 12674), (107, 12716), (108, 12719), (116, 12755), (118, 12767), (125, 12791), (126, 12797), (131, 12818), (146, 12893), (152, 12935), (155, 12950), (161, 12986), (162, 13001), (169, 13049), (170, 13058), (190, 13160), (215, 13301), (222, 13343), (230, 13373), (232, 13379), (233, 13385), (240, 13436), (255, 13508), (257, 13514), (260, 13529), (263, 13547), (264, 13550), (278, 13610), (289, 13655), (298, 13697), (303, 13718), (309, 13742), (312, 13754), (313, 13757), (322, 13814), (334, 13886), (342, 13928), (354, 14030), (364, 14093), (384, 14207), (387, 14228), (400, 14288), (411, 14342),

(412, 14348), (424, 14399), (436, 14474), (443, 14516), (455, 14579), (490, 14744), (508, 14828), (510, 14843), (516, 14861), (517, 14867), (530, 14909), (532, 14918), (541, 14963), (545, 14978), (560, 15059), (562, 15068), (585, 15161), (593, 15218), (600, 15251), (618, 15305), (623, 15326), (678, 15785), (679, 15812), (681, 15839), (684, 15854), (685, 15863), (696, 15950), (723, 16088), (725, 16106), (733, 16145),

Gene: Pixie_20 Start: 11949, Stop: 16127, Start Num: 15

Candidate Starts for Pixie_20:

(Start: 15 @11949 has 162 MA's), (Start: 23 @12018 has 1 MA's), (Start: 24 @12039 has 1 MA's), (26, 12045), (31, 12105), (52, 12243), (62, 12288), (67, 12309), (97, 12462), (99, 12474), (103, 12495), (110, 12549), (116, 12579), (123, 12600), (129, 12633), (131, 12642), (134, 12663), (142, 12702), (158, 12780), (164, 12822), (169, 12858), (174, 12882), (204, 13056), (210, 13095), (214, 13116), (218, 13137), (220, 13146), (251, 13314), (258, 13335), (262, 13359), (266, 13383), (271, 13404), (276, 13422), (282, 13455), (293, 13497), (294, 13500), (295, 13503), (303, 13542), (305, 13551), (319, 13620), (335, 13731), (341, 13761), (369, 13959), (374, 13992), (391, 14082), (394, 14100), (401, 14130), (405, 14157), (433, 14292), (446, 14373), (454, 14409), (464, 14466), (469, 14484), (473, 14505), (476, 14517), (488, 14577), (503, 14658), (515, 14697), (525, 14730), (527, 14745), (530, 14751), (532, 14760), (540, 14802), (559, 14895), (579, 14973), (602, 15096), (625, 15171), (676, 15636), (678, 15648), (684, 15717), (685, 15726), (719, 15918), (721, 15936), (729, 15972), (731, 15981), (742, 16047), (743, 16053), (746, 16068), (747, 16080),

Gene: Plagueis_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Plagueis_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Pokerus_20 Start: 12033, Stop: 15866, Start Num: 15

Candidate Starts for Pokerus_20:

(Start: 15 @12033 has 162 MA's), (Start: 23 @12102 has 1 MA's), (31, 12189), (59, 12366), (67, 12393), (84, 12465), (85, 12477), (87, 12486), (99, 12558), (110, 12633), (129, 12717), (131, 12726), (134, 12747), (142, 12786), (158, 12864), (169, 12942), (184, 13032), (196, 13107), (214, 13200), (216, 13209), (218, 13221), (220, 13230), (266, 13467), (276, 13506), (282, 13539), (303, 13626), (309, 13650), (324, 13734), (339, 13818), (342, 13830), (346, 13851), (401, 14007), (440, 14088), (451, 14136), (454, 14154), (457, 14175), (464, 14211), (476, 14262), (487, 14319), (503, 14397), (506, 14406), (527, 14484), (532, 14499), (540, 14541), (556, 14595), (602, 14835), (625, 14910), (651, 15021), (664, 15240), (666, 15252), (684, 15435), (685, 15444), (696, 15516), (705, 15546), (709, 15567), (727, 15687), (739, 15759), (742, 15777), (743, 15783),

Gene: Prithvi_21 Start: 12047, Stop: 15883, Start Num: 15

Candidate Starts for Prithvi_21:

(Start: 15 @12047 has 162 MA's), (Start: 23 @12116 has 1 MA's), (31, 12203), (59, 12383), (67, 12410), (87, 12503), (97, 12563), (99, 12575), (110, 12650), (123, 12701), (131, 12743), (134, 12764), (142, 12803), (158, 12881), (169, 12959), (174, 12983), (196, 13124), (214, 13217), (216, 13226), (218, 13238), (220, 13247), (266, 13484), (272, 13508), (276, 13523), (282, 13556), (303, 13643), (309, 13667), (324, 13751), (339, 13835), (342, 13847), (346, 13868), (354, 13949), (401, 14024), (440, 14105), (451, 14153), (454, 14171), (456, 14183), (457, 14192), (464, 14228), (476, 14279),

(487, 14336), (503, 14414), (506, 14423), (527, 14501), (532, 14516), (540, 14558), (556, 14612), (602, 14852), (625, 14927), (651, 15038), (664, 15257), (666, 15269), (676, 15371), (684, 15452), (685, 15461), (696, 15533), (705, 15563), (709, 15584), (727, 15704), (739, 15776), (742, 15794), (743, 15800),

Gene: Psycho_19 Start: 12089, Stop: 16222, Start Num: 12

Candidate Starts for Psycho_19:

(Start: 12 @12089 has 1 MA's), (Start: 14 @12110 has 31 MA's), (Start: 24 @12203 has 1 MA's), (32, 12281), (33, 12305), (43, 12365), (62, 12449), (87, 12563), (97, 12623), (99, 12635), (103, 12656), (110, 12710), (122, 12758), (131, 12803), (134, 12824), (158, 12941), (169, 13019), (174, 13043), (180, 13085), (184, 13109), (196, 13184), (214, 13277), (220, 13307), (253, 13481), (262, 13520), (266, 13544), (271, 13565), (284, 13625), (303, 13703), (305, 13712), (321, 13790), (332, 13856), (340, 13898), (342, 13907), (349, 13991), (355, 14012), (357, 14045), (370, 14111), (374, 14132), (384, 14186), (385, 14195), (389, 14213), (394, 14240), (401, 14270), (407, 14306), (427, 14396), (429, 14402), (430, 14420), (449, 14525), (461, 14591), (503, 14786), (512, 14816), (522, 14849), (535, 14900), (538, 14921), (542, 14936), (543, 14942), (559, 15026), (573, 15074), (583, 15113), (594, 15173), (601, 15206), (606, 15227), (614, 15251), (621, 15281), (642, 15347), (653, 15419), (676, 15734), (677, 15743), (678, 15746), (679, 15773), (680, 15788), (682, 15803), (684, 15815), (689, 15845), (696, 15899), (700, 15917), (716, 15986), (722, 16034), (727, 16058), (729, 16070), (731, 16079), (744, 16151), (747, 16175), (751, 16214),

Gene: QuincyRose_20 Start: 12096, Stop: 15929, Start Num: 15

Candidate Starts for QuincyRose_20:

(Start: 15 @12096 has 162 MA's), (Start: 23 @12165 has 1 MA's), (31, 12252), (59, 12429), (67, 12456), (85, 12540), (87, 12549), (99, 12621), (110, 12696), (129, 12780), (131, 12789), (134, 12810), (142, 12849), (158, 12927), (169, 13005), (184, 13095), (196, 13170), (214, 13263), (218, 13284), (220, 13293), (248, 13437), (266, 13530), (276, 13569), (282, 13602), (303, 13689), (309, 13713), (324, 13797), (339, 13881), (342, 13893), (346, 13914), (401, 14070), (440, 14151), (451, 14199), (454, 14217), (457, 14238), (464, 14274), (476, 14325), (487, 14382), (503, 14460), (506, 14469), (527, 14547), (540, 14604), (556, 14658), (602, 14898), (625, 14973), (651, 15084), (664, 15303), (666, 15315), (684, 15498), (685, 15507), (696, 15579), (705, 15609), (709, 15630), (727, 15750), (739, 15822), (742, 15840), (743, 15846),

Gene: Rabbs_16 Start: 11454, Stop: 15479, Start Num: 15

Candidate Starts for Rabbs_16:

(Start: 15 @11454 has 162 MA's), (19, 11478), (35, 11655), (57, 11769), (67, 11811), (70, 11832), (73, 11841), (99, 11976), (103, 11997), (131, 12144), (139, 12186), (142, 12204), (144, 12207), (149, 12228), (151, 12240), (169, 12360), (180, 12426), (192, 12492), (195, 12516), (210, 12597), (236, 12720), (238, 12741), (256, 12831), (259, 12840), (267, 12891), (276, 12924), (279, 12942), (293, 12999), (303, 13044), (321, 13131), (324, 13152), (342, 13248), (345, 13263), (355, 13353), (361, 13410), (363, 13413), (393, 13572), (394, 13581), (400, 13608), (429, 13743), (451, 13872), (456, 13902), (501, 14124), (509, 14148), (513, 14163), (518, 14184), (535, 14238), (550, 14298), (567, 14388), (573, 14421), (575, 14436), (588, 14484), (596, 14541), (602, 14574), (668, 15006), (678, 15096), (679, 15123), (684, 15165), (685, 15174), (709, 15243), (717, 15270), (728, 15327), (741, 15387), (743, 15405), (745, 15414),

Gene: Ramen_21 Start: 12079, Stop: 15915, Start Num: 15

Candidate Starts for Ramen_21:

(Start: 15 @12079 has 162 MA's), (Start: 23 @12148 has 1 MA's), (31, 12235), (59, 12412), (67, 12439), (84, 12511), (85, 12523), (87, 12532), (99, 12604), (110, 12679), (129, 12763), (131, 12772), (134, 12793), (142, 12832), (158, 12910), (169, 12988), (184, 13078), (196, 13153), (214, 13246), (216, 13255), (218, 13267), (220, 13276), (272, 13537), (276, 13552), (282, 13585), (303, 13672), (309, 13696), (324, 13780), (339, 13864), (342, 13876), (346, 13897), (401, 14053), (440, 14134),

(451, 14182), (454, 14200), (457, 14221), (464, 14257), (476, 14308), (487, 14365), (503, 14443), (506, 14452), (527, 14530), (540, 14587), (556, 14641), (602, 14881), (625, 14956), (651, 15067), (664, 15286), (666, 15298), (684, 15484), (685, 15493), (696, 15565), (705, 15595), (709, 15616), (727, 15736), (739, 15808), (742, 15826), (743, 15832),

Gene: Rando14_19 Start: 11071, Stop: 14910, Start Num: 14

Candidate Starts for Rando14_19:

(Start: 14 @11071 has 31 MA's), (26, 11170), (39, 11257), (41, 11269), (56, 11335), (57, 11347), (61, 11359), (66, 11377), (99, 11533), (103, 11554), (116, 11638), (122, 11656), (127, 11686), (129, 11692), (131, 11701), (134, 11722), (140, 11749), (141, 11755), (148, 11779), (158, 11839), (169, 11917), (177, 11950), (178, 11962), (182, 11995), (195, 12073), (199, 12091), (204, 12115), (206, 12127), (207, 12130), (235, 12250), (238, 12274), (249, 12337), (250, 12340), (253, 12355), (266, 12418), (307, 12466), (332, 12559), (335, 12574), (355, 12715), (357, 12748), (382, 12877), (384, 12889), (385, 12898), (388, 12913), (392, 12931), (394, 12943), (401, 12973), (409, 13012), (412, 13030), (413, 13033), (427, 13099), (429, 13105), (433, 13135), (438, 13165), (445, 13210), (448, 13228), (452, 13240), (479, 13375), (483, 13390), (503, 13471), (504, 13474), (519, 13528), (534, 13576), (536, 13585), (539, 13609), (544, 13630), (566, 13729), (567, 13732), (580, 13795), (591, 13828), (599, 13888), (605, 13921), (611, 13936), (613, 13942), (625, 13987), (633, 14008), (638, 14035), (657, 14170), (661, 14245), (668, 14335), (676, 14422), (677, 14431), (678, 14434), (679, 14461), (682, 14491), (684, 14503), (689, 14533), (696, 14587), (700, 14605), (716, 14674), (727, 14746), (731, 14767), (744, 14839), (747, 14863), (752, 14902),

Gene: Rapunzel97_21 Start: 12080, Stop: 15916, Start Num: 15

Candidate Starts for Rapunzel97_21:

(Start: 15 @12080 has 162 MA's), (Start: 23 @12149 has 1 MA's), (31, 12236), (59, 12413), (67, 12440), (84, 12512), (85, 12524), (87, 12533), (99, 12605), (110, 12680), (129, 12764), (131, 12773), (134, 12794), (142, 12833), (158, 12911), (169, 12989), (184, 13079), (196, 13154), (214, 13247), (216, 13256), (218, 13268), (220, 13277), (272, 13538), (276, 13553), (282, 13586), (303, 13673), (309, 13697), (324, 13781), (339, 13865), (342, 13877), (346, 13898), (401, 14054), (440, 14135), (451, 14183), (454, 14201), (457, 14222), (464, 14258), (476, 14309), (487, 14366), (503, 14444), (506, 14453), (527, 14531), (540, 14588), (556, 14642), (602, 14882), (625, 14957), (651, 15068), (664, 15287), (666, 15299), (684, 15485), (685, 15494), (696, 15566), (705, 15596), (709, 15617), (727, 15737), (739, 15809), (742, 15827), (743, 15833),

Gene: Remy19_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Remy19_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Renaissance_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Renaissance_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912),

(501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Reptar3000_22 Start: 13066, Stop: 17232, Start Num: 16

Candidate Starts for Reptar3000_22:

(9, 13030), (Start: 16 @13066 has 58 MA's), (35, 13264), (84, 13492), (85, 13504), (87, 13513), (90, 13543), (103, 13606), (131, 13753), (134, 13774), (142, 13813), (144, 13816), (158, 13891), (169, 13969), (183, 14056), (184, 14059), (190, 14089), (194, 14122), (200, 14146), (215, 14230), (221, 14260), (226, 14287), (247, 14395), (250, 14416), (252, 14428), (256, 14440), (266, 14494), (303, 14653), (308, 14674), (324, 14782), (343, 14902), (379, 15151), (401, 15262), (411, 15313), (413, 15322), (423, 15367), (427, 15388), (447, 15487), (451, 15502), (452, 15508), (465, 15577), (469, 15598), (470, 15607), (471, 15619), (475, 15628), (494, 15700), (503, 15751), (504, 15754), (512, 15781), (540, 15880), (546, 15898), (559, 15973), (600, 16162), (602, 16174), (625, 16249), (654, 16429), (662, 16549), (670, 16657), (675, 16717), (684, 16804), (689, 16834), (700, 16924), (703, 16933), (705, 16936), (720, 17035), (726, 17062), (743, 17158), (750, 17221),

Gene: Richo_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for Richo_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (233, 12361), (235, 12370), (237, 12382), (238, 12394), (240, 12412), (251, 12472), (255, 12484), (257, 12490), (260, 12505), (263, 12523), (264, 12526), (267, 12544), (271, 12559), (280, 12598), (295, 12655), (296, 12664), (303, 12694), (308, 12715), (315, 12745), (320, 12778), (334, 12862), (339, 12892), (342, 12904), (354, 13006), (366, 13084), (374, 13129), (378, 13153), (388, 13207), (389, 13210), (392, 13225), (401, 13267), (405, 13294), (407, 13303), (411, 13318), (412, 13324), (413, 13327), (439, 13468), (445, 13504), (446, 13510), (451, 13528), (455, 13555), (457, 13567), (469, 13621), (476, 13654), (488, 13714), (503, 13795), (504, 13798), (527, 13882), (532, 13897), (559, 14032), (576, 14098), (602, 14233), (662, 14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (739, 15181), (742, 15199), (743, 15205), (748, 15244),

Gene: Rosmarinus_21 Start: 12104, Stop: 15937, Start Num: 15

Candidate Starts for Rosmarinus_21:

(Start: 15 @12104 has 162 MA's), (Start: 23 @12173 has 1 MA's), (31, 12260), (41, 12335), (59, 12437), (67, 12464), (84, 12536), (85, 12548), (87, 12557), (99, 12629), (110, 12704), (129, 12788), (131, 12797), (134, 12818), (142, 12857), (151, 12893), (158, 12935), (169, 13013), (184, 13103), (196, 13178), (214, 13271), (216, 13280), (218, 13292), (220, 13301), (266, 13538), (276, 13577), (282, 13610), (303, 13697), (309, 13721), (324, 13805), (339, 13889), (342, 13901), (346, 13922), (401, 14078), (440, 14159), (451, 14207), (454, 14225), (457, 14246), (464, 14282), (476, 14333), (487, 14390), (503, 14468), (506, 14477), (527, 14555), (532, 14570), (540, 14612), (556, 14666), (602, 14906), (625, 14981), (651, 15092), (664, 15311), (666, 15323), (684, 15506), (685, 15515), (696, 15587), (705, 15617), (709, 15638), (727, 15758), (739, 15830), (742, 15848), (743, 15854),

Gene: Ruthiejr_21 Start: 12924, Stop: 17120, Start Num: 16

Candidate Starts for Ruthiejr_21:

(Start: 16 @12924 has 58 MA's), (35, 13122), (80, 13335), (85, 13362), (87, 13371), (99, 13443), (103, 13464), (129, 13602), (131, 13611), (134, 13632), (142, 13671), (156, 13740), (158, 13749), (169, 13827), (171, 13839), (184, 13917), (190, 13947), (194, 13980), (195, 13983), (200, 14004), (226, 14145), (228, 14154), (252, 14286), (256, 14298), (266, 14352), (276, 14391), (282, 14424), (303, 14511), (308, 14532), (333, 14709), (343, 14760), (361, 14919), (401, 15120), (411, 15171), (413,

15180), (423, 15225), (427, 15246), (431, 15252), (452, 15366), (470, 15465), (471, 15477), (475, 15486), (494, 15558), (499, 15591), (503, 15609), (504, 15612), (512, 15639), (540, 15738), (546, 15756), (559, 15831), (600, 16020), (602, 16032), (625, 16107), (641, 16176), (654, 16308), (660, 16422), (684, 16689), (687, 16707), (703, 16818), (705, 16821), (720, 16920), (726, 16947), (727, 16950), (743, 17046), (750, 17109),

Gene: SamScheppers_20 Start: 12840, Stop: 17027, Start Num: 16

Candidate Starts for SamScheppers_20:

(9, 12804), (Start: 16 @12840 has 58 MA's), (35, 13038), (85, 13278), (87, 13287), (103, 13380), (131, 13527), (134, 13548), (142, 13587), (144, 13590), (158, 13665), (169, 13743), (183, 13830), (184, 13833), (190, 13863), (194, 13896), (200, 13920), (215, 14004), (221, 14034), (226, 14061), (247, 14169), (250, 14190), (252, 14202), (256, 14214), (266, 14268), (303, 14427), (308, 14448), (324, 14556), (343, 14676), (401, 15036), (411, 15087), (413, 15096), (423, 15141), (427, 15162), (470, 15381), (471, 15393), (475, 15402), (494, 15474), (503, 15525), (504, 15528), (512, 15555), (540, 15654), (546, 15672), (559, 15747), (600, 15936), (602, 15948), (625, 16023), (654, 16224), (662, 16344), (670, 16452), (684, 16599), (700, 16719), (703, 16728), (705, 16731), (720, 16830), (726, 16857), (743, 16953), (750, 17016),

Gene: SamuelLPlaqson_21 Start: 12024, Stop: 15863, Start Num: 15

Candidate Starts for SamuelLPlaqson_21:

(Start: 15 @12024 has 162 MA's), (Start: 23 @12093 has 1 MA's), (31, 12180), (59, 12360), (67, 12387), (85, 12471), (87, 12480), (97, 12540), (99, 12552), (110, 12627), (123, 12678), (131, 12720), (134, 12741), (142, 12780), (158, 12858), (169, 12936), (174, 12960), (196, 13101), (214, 13194), (218, 13215), (220, 13224), (266, 13461), (272, 13485), (276, 13500), (282, 13533), (303, 13620), (321, 13707), (324, 13728), (339, 13812), (342, 13824), (346, 13845), (401, 14001), (440, 14082), (454, 14148), (457, 14169), (464, 14205), (476, 14256), (480, 14274), (487, 14313), (503, 14391), (527, 14478), (532, 14493), (540, 14535), (556, 14589), (602, 14829), (625, 14904), (651, 15015), (653, 15036), (654, 15057), (662, 15177), (676, 15351), (684, 15432), (685, 15441), (696, 15513), (705, 15543), (709, 15564), (727, 15684), (739, 15756), (742, 15774), (743, 15780),

Gene: Scarlett_20 Start: 11082, Stop: 15158, Start Num: 16

Candidate Starts for Scarlett_20:

(Start: 16 @11082 has 58 MA's), (26, 11175), (42, 11307), (74, 11445), (89, 11523), (90, 11535), (91, 11541), (98, 11574), (105, 11610), (113, 11667), (115, 11679), (128, 11733), (133, 11763), (152, 11850), (155, 11865), (161, 11901), (176, 11994), (190, 12075), (222, 12258), (224, 12267), (235, 12309), (240, 12351), (251, 12411), (255, 12423), (257, 12429), (260, 12444), (264, 12465), (271, 12498), (300, 12621), (303, 12633), (304, 12639), (308, 12654), (310, 12660), (340, 12744), (348, 12825), (374, 12978), (392, 13074), (394, 13086), (401, 13116), (411, 13167), (415, 13188), (422, 13218), (424, 13224), (429, 13248), (438, 13308), (446, 13359), (455, 13404), (457, 13416), (469, 13470), (476, 13503), (487, 13560), (503, 13638), (504, 13641), (527, 13725), (535, 13752), (540, 13782), (556, 13836), (559, 13875), (602, 14076), (617, 14118), (625, 14151), (662, 14439), (664, 14496), (684, 14697), (699, 14811), (727, 14988), (739, 15072), (743, 15093),

Gene: Schiebel_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Schiebel_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385),

(743, 15403), (745, 15412),

Gene: SgtBeansprout_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for SgtBeansprout_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (231, 12578), (241, 12638), (251, 12695), (261, 12731), (266, 12764), (272, 12788), (287, 12854), (290, 12863), (303, 12923), (324, 13031), (332, 13076), (355, 13232), (372, 13343), (374, 13352), (376, 13364), (385, 13415), (389, 13433), (394, 13460), (401, 13490), (420, 13583), (429, 13622), (457, 13790), (469, 13844), (476, 13877), (485, 13922), (503, 14003), (504, 14006), (527, 14090), (530, 14096), (532, 14105), (540, 14147), (553, 14183), (556, 14201), (559, 14240), (574, 14300), (602, 14441), (621, 14501), (625, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: ShaboiShabazz_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for ShaboiShabazz_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Shadow1_19 Start: 10962, Stop: 14963, Start Num: 16

Candidate Starts for Shadow1_19:

(Start: 16 @10962 has 58 MA's), (26, 11055), (37, 11160), (47, 11214), (50, 11232), (55, 11250), (63, 11280), (69, 11307), (70, 11313), (98, 11454), (101, 11472), (102, 11475), (125, 11589), (128, 11604), (152, 11721), (155, 11736), (166, 11817), (179, 11886), (190, 11946), (222, 12129), (223, 12135), (237, 12192), (251, 12282), (255, 12294), (257, 12300), (260, 12315), (264, 12336), (267, 12354), (285, 12429), (300, 12492), (303, 12504), (308, 12525), (317, 12564), (338, 12609), (342, 12624), (361, 12786), (379, 12876), (393, 12948), (401, 12987), (411, 13038), (415, 13059), (422, 13089), (424, 13095), (429, 13119), (436, 13170), (454, 13266), (457, 13287), (464, 13323), (476, 13374), (503, 13515), (527, 13602), (535, 13629), (556, 13713), (602, 13953), (625, 14028), (665, 14361), (676, 14463), (677, 14472), (684, 14544), (685, 14553), (696, 14628), (705, 14658), (709, 14679), (727, 14796), (735, 14847), (739, 14871), (746, 14910), (747, 14922),

Gene: Shaobing_21 Start: 11128, Stop: 15282, Start Num: 16

Candidate Starts for Shaobing_21:

(9, 11086), (Start: 16 @11128 has 58 MA's), (26, 11221), (47, 11380), (53, 11407), (75, 11497), (76, 11500), (91, 11587), (109, 11695), (125, 11764), (129, 11782), (146, 11866), (152, 11908), (155, 11923), (156, 11932), (161, 11959), (169, 12022), (178, 12064), (190, 12133), (201, 12196), (202, 12205), (222, 12319), (223, 12325), (233, 12361), (235, 12370), (237, 12382), (238, 12394), (240, 12412), (251, 12472), (255, 12484), (257, 12490), (260, 12505), (263, 12523), (264, 12526), (267, 12544), (271, 12559), (280, 12598), (295, 12655), (296, 12664), (302, 12688), (303, 12694), (308, 12715), (315, 12745), (320, 12778), (334, 12862), (339, 12892), (342, 12904), (354, 13006), (366, 13084), (374, 13129), (378, 13153), (388, 13207), (389, 13210), (392, 13225), (401, 13267), (405, 13294), (407, 13303), (411, 13318), (412, 13324), (413, 13327), (439, 13468), (445, 13504), (446, 13510), (451, 13528), (455, 13555), (457, 13567), (469, 13621), (476, 13654), (488, 13714), (503, 13795), (504, 13798), (527, 13882), (532, 13897), (559, 14032), (576, 14098), (602, 14233), (662,

14584), (684, 14839), (685, 14848), (691, 14914), (727, 15109), (731, 15130), (739, 15181), (742, 15199), (743, 15205), (748, 15244),

Gene: ShedlockHolmes_20 Start: 12197, Stop: 16345, Start Num: 15

Candidate Starts for ShedlockHolmes_20:

(Start: 15 @12197 has 162 MA's), (Start: 23 @12266 has 1 MA's), (Start: 24 @12287 has 1 MA's), (26, 12293), (31, 12353), (52, 12491), (62, 12536), (67, 12557), (77, 12602), (97, 12710), (99, 12722), (103, 12743), (110, 12797), (116, 12827), (123, 12848), (129, 12881), (131, 12890), (134, 12911), (142, 12950), (158, 13028), (164, 13070), (169, 13106), (174, 13130), (204, 13304), (214, 13364), (218, 13385), (220, 13394), (251, 13562), (258, 13583), (262, 13607), (266, 13631), (271, 13652), (276, 13670), (282, 13703), (293, 13745), (294, 13748), (295, 13751), (303, 13790), (305, 13799), (319, 13868), (335, 13979), (341, 14009), (369, 14207), (374, 14240), (391, 14330), (394, 14348), (401, 14378), (405, 14405), (446, 14621), (454, 14657), (464, 14714), (469, 14732), (476, 14765), (477, 14777), (488, 14825), (503, 14906), (504, 14909), (540, 15026), (559, 15119), (579, 15197), (599, 15296), (602, 15320), (625, 15395), (676, 15854), (678, 15866), (684, 15935), (685, 15944), (719, 16136), (721, 16154), (729, 16190), (731, 16199), (742, 16265), (743, 16271), (746, 16286), (747, 16298),

Gene: ShiaSurprise_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for ShiaSurprise_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: SirPhilip_20 Start: 10854, Stop: 14759, Start Num: 16

Candidate Starts for SirPhilip_20:

(Start: 16 @10854 has 58 MA's), (26, 10947), (37, 11052), (46, 11103), (47, 11106), (70, 11205), (88, 11286), (89, 11295), (96, 11334), (98, 11346), (101, 11364), (102, 11367), (104, 11376), (110, 11424), (113, 11439), (118, 11457), (121, 11463), (124, 11475), (152, 11613), (155, 11628), (165, 11694), (166, 11709), (222, 12021), (234, 12066), (235, 12072), (237, 12084), (240, 12114), (251, 12174), (255, 12186), (257, 12192), (260, 12207), (264, 12228), (267, 12246), (268, 12249), (294, 12354), (303, 12396), (308, 12417), (317, 12456), (341, 12510), (342, 12516), (374, 12675), (381, 12708), (398, 12753), (400, 12756), (401, 12759), (405, 12786), (406, 12789), (407, 12795), (413, 12819), (420, 12852), (427, 12885), (439, 12960), (449, 13014), (451, 13020), (454, 13038), (457, 13059), (463, 13092), (488, 13206), (503, 13287), (504, 13290), (527, 13374), (556, 13485), (559, 13524), (574, 13584), (602, 13725), (625, 13800), (677, 14253), (684, 14325), (690, 14379), (699, 14430), (719, 14556), (727, 14598), (739, 14673), (743, 14694),

Gene: Sizemore_16 Start: 11465, Stop: 15478, Start Num: 15

Candidate Starts for Sizemore_16:

(Start: 15 @11465 has 162 MA's), (35, 11666), (57, 11780), (67, 11822), (73, 11852), (99, 11987), (100, 11999), (103, 12008), (139, 12197), (142, 12215), (144, 12218), (149, 12239), (151, 12251), (162, 12323), (169, 12371), (192, 12503), (195, 12527), (210, 12608), (236, 12731), (249, 12815), (259, 12851), (266, 12896), (267, 12902), (293, 13010), (298, 13034), (303, 13055), (345, 13274), (363, 13424), (379, 13511), (400, 13619), (429, 13754), (446, 13865), (451, 13883), (456, 13913), (501, 14135), (509, 14159), (513, 14174), (518, 14195), (527, 14222), (535, 14249), (550, 14309), (567, 14399), (573, 14432), (588, 14495), (596, 14552), (602, 14585), (605, 14594), (678, 15098),

(679, 15125), (682, 15155), (684, 15167), (685, 15176), (709, 15245), (728, 15326), (741, 15386), (743, 15404), (745, 15413),

Gene: Slarp_22 Start: 13324, Stop: 17499, Start Num: 16

Candidate Starts for Slarp_22:

(9, 13288), (Start: 16 @13324 has 58 MA's), (27, 13423), (35, 13522), (85, 13762), (87, 13771), (103, 13864), (131, 14011), (134, 14032), (142, 14071), (144, 14074), (158, 14149), (169, 14227), (183, 14314), (184, 14317), (190, 14347), (194, 14380), (200, 14404), (215, 14488), (221, 14518), (226, 14545), (247, 14653), (250, 14674), (252, 14686), (256, 14698), (266, 14752), (303, 14911), (308, 14932), (324, 15040), (343, 15160), (401, 15520), (411, 15571), (413, 15580), (423, 15625), (427, 15646), (470, 15865), (471, 15877), (475, 15886), (494, 15958), (503, 16009), (504, 16012), (512, 16039), (540, 16138), (546, 16156), (559, 16231), (600, 16420), (602, 16432), (625, 16507), (654, 16693), (662, 16813), (670, 16921), (684, 17071), (700, 17191), (703, 17200), (705, 17203), (720, 17302), (726, 17329), (743, 17425), (750, 17488),

Gene: Slimphazie_21 Start: 12080, Stop: 15916, Start Num: 15

Candidate Starts for Slimphazie_21:

(Start: 15 @12080 has 162 MA's), (Start: 23 @12149 has 1 MA's), (31, 12236), (59, 12413), (67, 12440), (84, 12512), (85, 12524), (87, 12533), (99, 12605), (110, 12680), (129, 12764), (131, 12773), (134, 12794), (142, 12833), (158, 12911), (169, 12989), (184, 13079), (196, 13154), (214, 13247), (216, 13256), (218, 13268), (220, 13277), (272, 13538), (276, 13553), (282, 13586), (303, 13673), (309, 13697), (324, 13781), (339, 13865), (342, 13877), (346, 13898), (401, 14054), (440, 14135), (451, 14183), (454, 14201), (457, 14222), (464, 14258), (476, 14309), (487, 14366), (503, 14444), (506, 14453), (527, 14531), (540, 14588), (556, 14642), (602, 14882), (625, 14957), (651, 15068), (664, 15287), (666, 15299), (684, 15485), (685, 15494), (696, 15566), (705, 15596), (709, 15617), (727, 15737), (739, 15809), (742, 15827), (743, 15833),

Gene: Sneeze_16 Start: 11453, Stop: 15478, Start Num: 15

Candidate Starts for Sneeze_16:

(Start: 15 @11453 has 162 MA's), (19, 11477), (35, 11654), (57, 11768), (67, 11810), (70, 11831), (73, 11840), (99, 11975), (103, 11996), (131, 12143), (139, 12185), (142, 12203), (144, 12206), (149, 12227), (151, 12239), (169, 12359), (180, 12425), (192, 12491), (195, 12515), (210, 12596), (236, 12719), (238, 12740), (256, 12830), (259, 12839), (267, 12890), (276, 12923), (279, 12941), (293, 12998), (303, 13043), (321, 13130), (324, 13151), (342, 13247), (345, 13262), (355, 13352), (361, 13409), (363, 13412), (393, 13571), (394, 13580), (400, 13607), (429, 13742), (451, 13871), (456, 13901), (501, 14123), (509, 14147), (513, 14162), (518, 14183), (535, 14237), (550, 14297), (567, 14387), (573, 14420), (575, 14435), (588, 14483), (596, 14540), (602, 14573), (668, 15005), (678, 15095), (679, 15122), (684, 15164), (685, 15173), (709, 15242), (717, 15269), (728, 15326), (741, 15386), (743, 15404), (745, 15413),

Gene: SoSeph_19 Start: 12264, Stop: 16394, Start Num: 14

Candidate Starts for SoSeph_19:

(Start: 14 @12264 has 31 MA's), (Start: 24 @12357 has 1 MA's), (32, 12435), (33, 12459), (43, 12519), (62, 12603), (65, 12615), (87, 12717), (97, 12777), (99, 12789), (103, 12810), (110, 12864), (122, 12912), (131, 12957), (134, 12978), (158, 13095), (169, 13173), (174, 13197), (184, 13263), (196, 13338), (214, 13431), (220, 13461), (253, 13635), (256, 13644), (262, 13674), (266, 13698), (271, 13719), (284, 13779), (303, 13857), (305, 13866), (321, 13944), (332, 14010), (340, 14052), (342, 14061), (349, 14145), (355, 14166), (357, 14199), (384, 14340), (385, 14349), (389, 14367), (394, 14394), (410, 14472), (429, 14556), (449, 14679), (461, 14745), (503, 14940), (512, 14970), (519, 14997), (522, 15003), (528, 15030), (538, 15075), (542, 15090), (543, 15096), (559, 15180), (573, 15228), (583, 15267), (594, 15327), (601, 15360), (606, 15381), (614, 15405), (621, 15438), (642, 15522), (653, 15594), (676, 15903), (680, 15957), (682, 15972), (684, 15984), (689, 16014), (722, 16200), (727, 16224), (729, 16236), (744, 16323), (747, 16347),

Gene: Spock_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Spock_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Stargaze_16 Start: 11766, Stop: 15800, Start Num: 16

Candidate Starts for Stargaze_16:

(Start: 16 @11766 has 58 MA's), (26, 11862), (36, 11967), (50, 12042), (55, 12060), (57, 12072), (63, 12090), (69, 12117), (70, 12123), (91, 12231), (93, 12237), (96, 12252), (98, 12264), (101, 12282), (108, 12327), (116, 12363), (120, 12378), (124, 12393), (125, 12399), (146, 12501), (152, 12543), (155, 12558), (161, 12594), (169, 12657), (173, 12678), (176, 12687), (187, 12750), (190, 12768), (215, 12909), (222, 12951), (230, 12981), (231, 12984), (233, 12993), (235, 13002), (240, 13044), (254, 13113), (255, 13116), (257, 13122), (260, 13137), (264, 13158), (265, 13167), (289, 13263), (298, 13305), (303, 13326), (309, 13350), (312, 13362), (313, 13365), (322, 13422), (328, 13455), (334, 13494), (342, 13536), (343, 13539), (355, 13641), (364, 13701), (366, 13716), (372, 13752), (384, 13815), (387, 13836), (400, 13896), (424, 14007), (429, 14031), (436, 14082), (437, 14088), (461, 14220), (490, 14352), (508, 14436), (510, 14451), (530, 14517), (545, 14586), (560, 14667), (562, 14676), (585, 14769), (593, 14826), (600, 14859), (619, 14919), (623, 14934), (662, 15213), (678, 15402), (679, 15429), (684, 15471), (723, 15708), (725, 15726), (729, 15741), (732, 15753),

Gene: Stinson_21 Start: 12048, Stop: 15881, Start Num: 15

Candidate Starts for Stinson_21:

(Start: 15 @12048 has 162 MA's), (Start: 23 @12117 has 1 MA's), (31, 12204), (59, 12384), (67, 12411), (85, 12495), (87, 12504), (97, 12564), (99, 12576), (110, 12651), (119, 12693), (129, 12735), (131, 12744), (134, 12765), (142, 12804), (158, 12882), (169, 12960), (196, 13125), (214, 13218), (218, 13239), (220, 13248), (266, 13485), (272, 13509), (276, 13524), (282, 13557), (303, 13644), (324, 13752), (339, 13836), (342, 13848), (346, 13869), (354, 13950), (401, 14025), (440, 14106), (442, 14115), (451, 14154), (454, 14172), (457, 14193), (464, 14229), (476, 14280), (487, 14337), (503, 14415), (506, 14424), (527, 14502), (532, 14517), (540, 14559), (556, 14613), (602, 14853), (625, 14928), (651, 15039), (664, 15258), (676, 15372), (684, 15453), (685, 15462), (696, 15534), (705, 15564), (709, 15585), (727, 15702), (739, 15774), (743, 15798),

Gene: Strobilo_17 Start: 10116, Stop: 13787, Start Num: 14

Candidate Starts for Strobilo_17:

(Start: 14 @10116 has 31 MA's), (Start: 23 @10188 has 1 MA's), (66, 10422), (84, 10473), (99, 10566), (103, 10587), (110, 10641), (131, 10734), (134, 10755), (139, 10776), (140, 10782), (158, 10872), (164, 10914), (169, 10950), (177, 10983), (178, 10995), (181, 11019), (184, 11040), (189, 11064), (190, 11070), (195, 11106), (196, 11115), (204, 11148), (206, 11160), (210, 11187), (249, 11370), (251, 11382), (253, 11388), (259, 11406), (262, 11427), (266, 11451), (272, 11475), (301, 11484), (307, 11499), (311, 11511), (323, 11544), (332, 11592), (351, 11733), (352, 11739), (356, 11775), (362, 11802), (367, 11820), (374, 11850), (394, 11946), (402, 11979), (413, 12015), (428, 12066), (434, 12099), (438, 12120), (443, 12144), (448, 12174), (453, 12195), (511, 12417), (537, 12510), (557, 12588), (590, 12711), (615, 12816), (632, 12864), (676, 13284), (677, 13293), (679, 13323), (707, 13488), (727, 13617), (743, 13710),

Gene: Sulley_21 Start: 12049, Stop: 15882, Start Num: 15

Candidate Starts for Sulley_21:

(Start: 15 @12049 has 162 MA's), (Start: 23 @12118 has 1 MA's), (31, 12205), (59, 12382), (67, 12409), (85, 12493), (87, 12502), (99, 12574), (110, 12649), (129, 12733), (131, 12742), (134, 12763), (142, 12802), (158, 12880), (169, 12958), (184, 13048), (196, 13123), (214, 13216), (218, 13237), (220, 13246), (266, 13483), (276, 13522), (282, 13555), (303, 13642), (309, 13666), (324, 13750), (339, 13834), (342, 13846), (346, 13867), (401, 14023), (440, 14104), (451, 14152), (454, 14170), (457, 14191), (464, 14227), (476, 14278), (487, 14335), (503, 14413), (506, 14422), (527, 14500), (532, 14515), (540, 14557), (556, 14611), (602, 14851), (625, 14926), (651, 15037), (664, 15256), (666, 15268), (684, 15451), (685, 15460), (705, 15562), (709, 15583), (727, 15703), (739, 15775), (742, 15793), (743, 15799),

Gene: Sunflower1121_19 Start: 10973, Stop: 14974, Start Num: 16

Candidate Starts for Sunflower1121_19:

(7, 10925), (Start: 16 @10973 has 58 MA's), (26, 11066), (37, 11171), (47, 11225), (50, 11243), (55, 11261), (63, 11291), (69, 11318), (70, 11324), (83, 11369), (98, 11465), (101, 11483), (102, 11486), (125, 11600), (128, 11615), (152, 11732), (155, 11747), (166, 11828), (178, 11888), (179, 11897), (190, 11957), (222, 12140), (223, 12146), (237, 12203), (251, 12293), (255, 12305), (257, 12311), (260, 12326), (264, 12347), (267, 12365), (285, 12440), (300, 12503), (303, 12515), (308, 12536), (317, 12575), (338, 12620), (342, 12635), (361, 12797), (374, 12860), (379, 12887), (393, 12959), (401, 12998), (411, 13049), (415, 13070), (422, 13100), (424, 13106), (429, 13130), (436, 13181), (457, 13298), (464, 13334), (476, 13385), (503, 13526), (527, 13613), (535, 13640), (556, 13724), (602, 13964), (625, 14039), (665, 14372), (676, 14474), (677, 14483), (684, 14555), (685, 14564), (696, 14639), (705, 14669), (709, 14690), (727, 14807), (735, 14858), (739, 14882), (746, 14921), (747, 14933),

Gene: Sweets_16 Start: 11459, Stop: 15472, Start Num: 15

Candidate Starts for Sweets_16:

(Start: 15 @11459 has 162 MA's), (35, 11660), (57, 11774), (67, 11816), (73, 11846), (99, 11981), (100, 11993), (103, 12002), (139, 12191), (142, 12209), (144, 12212), (149, 12233), (151, 12245), (162, 12317), (169, 12365), (192, 12497), (195, 12521), (210, 12602), (236, 12725), (249, 12809), (259, 12845), (266, 12890), (267, 12896), (293, 13004), (298, 13028), (303, 13049), (345, 13268), (363, 13418), (379, 13505), (400, 13613), (429, 13748), (446, 13859), (451, 13877), (456, 13907), (501, 14129), (509, 14153), (513, 14168), (518, 14189), (527, 14216), (535, 14243), (550, 14303), (567, 14393), (573, 14426), (588, 14489), (596, 14546), (602, 14579), (605, 14588), (678, 15092), (679, 15119), (682, 15149), (684, 15161), (685, 15170), (709, 15239), (728, 15320), (741, 15380), (743, 15398), (745, 15407),

Gene: Syra333_20 Start: 11068, Stop: 15069, Start Num: 16

Candidate Starts for Syra333_20:

(Start: 16 @11068 has 58 MA's), (26, 11161), (37, 11266), (47, 11320), (50, 11338), (55, 11356), (63, 11386), (69, 11413), (70, 11419), (83, 11464), (98, 11560), (101, 11578), (102, 11581), (125, 11695), (128, 11710), (152, 11827), (155, 11842), (166, 11923), (178, 11983), (179, 11992), (190, 12052), (222, 12235), (223, 12241), (237, 12298), (251, 12388), (255, 12400), (257, 12406), (260, 12421), (264, 12442), (267, 12460), (285, 12535), (294, 12568), (300, 12598), (303, 12610), (308, 12631), (317, 12670), (338, 12715), (342, 12730), (361, 12892), (374, 12955), (379, 12982), (393, 13054), (401, 13093), (411, 13144), (415, 13165), (422, 13195), (424, 13201), (429, 13225), (436, 13276), (454, 13372), (457, 13393), (464, 13429), (476, 13480), (503, 13621), (504, 13624), (527, 13708), (535, 13735), (556, 13819), (558, 13831), (602, 14059), (625, 14134), (684, 14650), (685, 14659), (696, 14734), (705, 14764), (709, 14785), (727, 14902), (739, 14977), (746, 15016), (747, 15028),

Gene: TBond007_20 Start: 11948, Stop: 16126, Start Num: 15

Candidate Starts for TBond007_20:

(Start: 15 @11948 has 162 MA's), (Start: 23 @12017 has 1 MA's), (Start: 24 @12038 has 1 MA's), (26, 12044), (31, 12104), (52, 12242), (62, 12287), (67, 12308), (97, 12461), (99, 12473), (103, 12494), (110, 12548), (116, 12578), (123, 12599), (129, 12632), (131, 12641), (134, 12662), (142, 12701), (158, 12779), (164, 12821), (169, 12857), (174, 12881), (204, 13055), (210, 13094), (214, 13115), (218, 13136), (220, 13145), (251, 13313), (258, 13334), (262, 13358), (266, 13382), (271, 13403), (276, 13421), (282, 13454), (293, 13496), (294, 13499), (295, 13502), (303, 13541), (305, 13550), (319, 13619), (335, 13730), (341, 13760), (369, 13958), (374, 13991), (391, 14081), (394, 14099), (401, 14129), (405, 14156), (446, 14372), (454, 14408), (464, 14465), (469, 14483), (473, 14504), (476, 14516), (488, 14576), (503, 14657), (515, 14696), (525, 14729), (527, 14744), (530, 14750), (532, 14759), (540, 14801), (559, 14894), (579, 14972), (602, 15095), (625, 15170), (676, 15635), (678, 15647), (684, 15716), (685, 15725), (719, 15917), (729, 15971), (731, 15980), (742, 16046), (743, 16052), (746, 16067), (747, 16079),

Gene: TClif_20 Start: 11063, Stop: 15118, Start Num: 16

Candidate Starts for TClif_20:

(7, 11015), (Start: 16 @11063 has 58 MA's), (18, 11081), (26, 11156), (47, 11315), (69, 11408), (71, 11417), (76, 11435), (80, 11450), (89, 11504), (96, 11543), (98, 11555), (102, 11576), (108, 11618), (113, 11648), (121, 11672), (145, 11783), (152, 11822), (155, 11837), (156, 11846), (161, 11873), (169, 11936), (190, 12047), (197, 12098), (222, 12230), (234, 12275), (235, 12281), (240, 12323), (251, 12383), (255, 12395), (257, 12401), (260, 12416), (264, 12437), (267, 12455), (271, 12470), (279, 12506), (294, 12563), (300, 12593), (303, 12605), (307, 12623), (335, 12689), (341, 12719), (342, 12725), (353, 12824), (355, 12830), (374, 12950), (383, 12998), (385, 13013), (392, 13046), (394, 13058), (401, 13088), (407, 13124), (411, 13139), (412, 13145), (418, 13172), (424, 13196), (429, 13220), (433, 13250), (436, 13271), (451, 13349), (457, 13388), (464, 13424), (476, 13475), (489, 13538), (503, 13616), (504, 13619), (511, 13643), (527, 13703), (559, 13853), (602, 14054), (625, 14129), (640, 14198), (684, 14678), (685, 14687), (689, 14708), (696, 14783), (699, 14795), (705, 14813), (709, 14834), (727, 14951), (739, 15026), (742, 15044), (743, 15050), (746, 15065), (747, 15077), (748, 15089), (749, 15092), (750, 15113),

Gene: TM4_17 Start: 10184, Stop: 13873, Start Num: 14

Candidate Starts for TM4_17:

(Start: 14 @10184 has 31 MA's), (Start: 23 @10256 has 1 MA's), (66, 10490), (84, 10541), (99, 10634), (103, 10655), (110, 10709), (131, 10802), (134, 10823), (139, 10844), (140, 10850), (158, 10940), (164, 10982), (169, 11018), (174, 11042), (177, 11051), (178, 11063), (181, 11087), (184, 11108), (189, 11132), (190, 11138), (195, 11174), (196, 11183), (199, 11192), (204, 11216), (206, 11228), (210, 11255), (249, 11438), (251, 11450), (253, 11456), (262, 11495), (266, 11519), (307, 11567), (311, 11579), (323, 11612), (325, 11618), (352, 11807), (354, 11813), (356, 11843), (362, 11870), (367, 11888), (368, 11894), (374, 11918), (389, 11987), (394, 12014), (402, 12047), (412, 12080), (413, 12083), (428, 12134), (434, 12167), (438, 12188), (443, 12212), (448, 12242), (453, 12263), (529, 12545), (555, 12638), (564, 12686), (565, 12689), (570, 12701), (589, 12782), (595, 12815), (597, 12824), (599, 12830), (605, 12863), (616, 12890), (621, 12908), (628, 12926), (630, 12932), (660, 13178), (676, 13358), (677, 13367), (685, 13448), (727, 13703), (743, 13796),

Gene: Tachez_21 Start: 12042, Stop: 15878, Start Num: 15

Candidate Starts for Tachez_21:

(Start: 15 @12042 has 162 MA's), (Start: 23 @12111 has 1 MA's), (31, 12198), (59, 12375), (67, 12402), (84, 12474), (85, 12486), (87, 12495), (99, 12567), (110, 12642), (129, 12726), (131, 12735), (134, 12756), (142, 12795), (158, 12873), (169, 12951), (184, 13041), (196, 13116), (214, 13209), (216, 13218), (218, 13230), (220, 13239), (272, 13500), (276, 13515), (282, 13548), (303, 13635), (309, 13659), (324, 13743), (339, 13827), (342, 13839), (346, 13860), (401, 14016), (440, 14097), (451, 14145), (454, 14163), (457, 14184), (464, 14220), (476, 14271), (487, 14328), (503, 14406), (506, 14415), (527, 14493), (540, 14550), (556, 14604), (602, 14844), (625, 14919), (651, 15030), (664, 15249), (666, 15261), (684, 15447), (685, 15456), (696, 15528), (705, 15558), (709, 15579),

(727, 15699), (739, 15771), (742, 15789), (743, 15795),

Gene: Taheera_16 Start: 11466, Stop: 15491, Start Num: 15

Candidate Starts for Taheera_16:

(Start: 15 @11466 has 162 MA's), (19, 11490), (35, 11667), (57, 11781), (67, 11823), (70, 11844), (73, 11853), (99, 11988), (103, 12009), (131, 12156), (139, 12198), (142, 12216), (144, 12219), (148, 12234), (149, 12240), (151, 12252), (169, 12372), (180, 12438), (192, 12504), (195, 12528), (210, 12609), (236, 12732), (238, 12753), (249, 12816), (256, 12843), (259, 12852), (267, 12903), (279, 12954), (293, 13011), (303, 13056), (321, 13143), (342, 13260), (345, 13275), (355, 13365), (361, 13422), (363, 13425), (391, 13575), (394, 13593), (451, 13884), (456, 13914), (501, 14136), (509, 14160), (513, 14175), (518, 14196), (535, 14250), (550, 14310), (567, 14400), (573, 14433), (575, 14448), (588, 14496), (596, 14553), (602, 14586), (668, 15018), (678, 15108), (679, 15135), (684, 15177), (685, 15186), (709, 15255), (717, 15282), (728, 15339), (741, 15399), (743, 15417), (745, 15426),

Gene: TaiwanKao_22 Start: 12053, Stop: 15889, Start Num: 15

Candidate Starts for TaiwanKao_22:

(Start: 15 @12053 has 162 MA's), (Start: 23 @12122 has 1 MA's), (31, 12209), (59, 12389), (67, 12416), (85, 12500), (87, 12509), (97, 12569), (99, 12581), (110, 12656), (119, 12698), (129, 12740), (131, 12749), (134, 12770), (142, 12809), (158, 12887), (169, 12965), (196, 13130), (214, 13223), (216, 13232), (218, 13244), (220, 13253), (266, 13490), (272, 13514), (276, 13529), (282, 13562), (303, 13649), (309, 13673), (324, 13757), (339, 13841), (342, 13853), (354, 13955), (401, 14030), (440, 14111), (451, 14159), (454, 14177), (456, 14189), (457, 14198), (464, 14234), (476, 14285), (487, 14342), (503, 14420), (506, 14429), (527, 14507), (532, 14522), (540, 14564), (556, 14618), (602, 14858), (625, 14933), (651, 15044), (664, 15263), (666, 15275), (676, 15377), (684, 15458), (685, 15467), (696, 15539), (705, 15569), (709, 15590), (727, 15710), (739, 15782), (742, 15800), (743, 15806),

Gene: Taquito_20 Start: 12915, Stop: 17108, Start Num: 16

Candidate Starts for Taquito_20:

(Start: 16 @12915 has 58 MA's), (35, 13113), (85, 13353), (87, 13362), (99, 13434), (103, 13455), (129, 13593), (131, 13602), (134, 13623), (142, 13662), (156, 13731), (158, 13740), (169, 13818), (171, 13830), (184, 13908), (190, 13938), (194, 13971), (195, 13974), (200, 13995), (226, 14136), (228, 14145), (252, 14277), (256, 14289), (266, 14343), (276, 14382), (282, 14415), (303, 14502), (308, 14523), (333, 14700), (343, 14751), (361, 14910), (401, 15111), (411, 15162), (413, 15171), (423, 15216), (427, 15237), (470, 15456), (471, 15468), (475, 15477), (489, 15522), (494, 15549), (499, 15582), (503, 15600), (504, 15603), (512, 15630), (540, 15729), (546, 15747), (559, 15822), (578, 15894), (600, 16011), (602, 16023), (625, 16098), (641, 16167), (654, 16296), (660, 16410), (684, 16677), (687, 16695), (703, 16806), (705, 16809), (720, 16908), (726, 16935), (727, 16938), (743, 17034), (750, 17097),

Gene: Terror_16 Start: 11466, Stop: 15491, Start Num: 15

Candidate Starts for Terror_16:

(Start: 15 @11466 has 162 MA's), (19, 11490), (35, 11667), (57, 11781), (67, 11823), (70, 11844), (73, 11853), (99, 11988), (103, 12009), (131, 12156), (139, 12198), (142, 12216), (144, 12219), (148, 12234), (149, 12240), (151, 12252), (169, 12372), (180, 12438), (192, 12504), (195, 12528), (210, 12609), (236, 12732), (238, 12753), (249, 12816), (256, 12843), (259, 12852), (267, 12903), (279, 12954), (293, 13011), (303, 13056), (321, 13143), (342, 13260), (345, 13275), (355, 13365), (361, 13422), (363, 13425), (391, 13575), (394, 13593), (451, 13884), (456, 13914), (501, 14136), (509, 14160), (513, 14175), (518, 14196), (535, 14250), (550, 14310), (567, 14400), (573, 14433), (575, 14448), (588, 14496), (596, 14553), (602, 14586), (668, 15018), (678, 15108), (679, 15135), (684, 15177), (685, 15186), (709, 15255), (717, 15282), (728, 15339), (741, 15399), (743, 15417), (745, 15426),

Gene: Thyatira_19 Start: 12136, Stop: 16245, Start Num: 14

Candidate Starts for Thyatira_19:

(Start: 14 @12136 has 31 MA's), (43, 12394), (62, 12478), (77, 12544), (87, 12592), (97, 12652), (99, 12664), (103, 12685), (110, 12739), (116, 12769), (131, 12832), (134, 12853), (148, 12910), (158, 12970), (169, 13048), (174, 13072), (180, 13114), (186, 13147), (214, 13306), (218, 13327), (238, 13405), (249, 13468), (252, 13483), (253, 13486), (256, 13495), (258, 13501), (260, 13513), (270, 13567), (295, 13669), (303, 13708), (332, 13861), (340, 13903), (345, 13927), (355, 14017), (357, 14050), (384, 14191), (385, 14200), (389, 14218), (394, 14245), (410, 14323), (429, 14407), (449, 14530), (461, 14596), (483, 14698), (503, 14791), (506, 14800), (512, 14821), (522, 14854), (535, 14905), (538, 14926), (542, 14941), (543, 14947), (559, 15031), (571, 15061), (573, 15079), (583, 15118), (594, 15178), (601, 15211), (606, 15232), (614, 15256), (621, 15289), (642, 15373), (653, 15445), (676, 15754), (680, 15808), (682, 15823), (684, 15835), (689, 15865), (722, 16051), (727, 16075), (729, 16087), (744, 16174), (747, 16198),

Gene: Tierra_20 Start: 11792, Stop: 15793, Start Num: 16

Candidate Starts for Tierra_20:

(Start: 16 @11792 has 58 MA's), (26, 11885), (37, 11990), (42, 12017), (47, 12044), (50, 12062), (55, 12080), (60, 12104), (63, 12110), (69, 12137), (70, 12143), (80, 12179), (83, 12188), (86, 12212), (98, 12284), (101, 12302), (102, 12305), (128, 12434), (152, 12551), (166, 12647), (173, 12686), (179, 12716), (190, 12776), (222, 12959), (223, 12965), (224, 12968), (237, 13022), (240, 13052), (251, 13112), (255, 13124), (257, 13130), (260, 13145), (264, 13166), (267, 13184), (300, 13322), (303, 13334), (308, 13355), (317, 13394), (341, 13448), (342, 13454), (361, 13616), (374, 13679), (389, 13760), (392, 13775), (401, 13817), (411, 13868), (415, 13889), (422, 13919), (424, 13925), (429, 13949), (436, 14000), (446, 14060), (457, 14117), (464, 14153), (469, 14171), (476, 14204), (503, 14345), (504, 14348), (527, 14432), (535, 14459), (556, 14543), (602, 14783), (625, 14858), (665, 15191), (676, 15293), (677, 15302), (684, 15374), (696, 15458), (705, 15488), (709, 15509), (727, 15626), (739, 15701), (746, 15740), (747, 15752),

Gene: TingHuaYa_21 Start: 11093, Stop: 15220, Start Num: 16

Candidate Starts for TingHuaYa_21:

(9, 11045), (Start: 16 @11093 has 58 MA's), (26, 11186), (42, 11318), (46, 11342), (53, 11372), (57, 11393), (60, 11405), (69, 11438), (76, 11465), (91, 11552), (98, 11585), (101, 11603), (102, 11606), (108, 11648), (118, 11696), (146, 11822), (152, 11864), (155, 11879), (161, 11915), (170, 11987), (190, 12089), (222, 12272), (233, 12314), (234, 12317), (235, 12323), (237, 12335), (240, 12365), (251, 12425), (257, 12443), (260, 12458), (263, 12476), (264, 12479), (271, 12512), (292, 12593), (295, 12608), (303, 12647), (308, 12668), (339, 12845), (342, 12857), (344, 12866), (347, 12917), (354, 12959), (374, 13082), (378, 13106), (389, 13163), (392, 13178), (393, 13181), (405, 13247), (407, 13256), (413, 13280), (424, 13328), (436, 13403), (439, 13421), (451, 13481), (455, 13508), (457, 13520), (464, 13556), (469, 13574), (478, 13619), (481, 13649), (488, 13667), (503, 13748), (504, 13751), (527, 13835), (532, 13850), (539, 13889), (540, 13892), (559, 13985), (576, 14051), (602, 14186), (662, 14537), (676, 14708), (684, 14789), (696, 14873), (727, 15041), (739, 15113), (742, 15131), (743, 15137),

Gene: TiniBug_21 Start: 12024, Stop: 15860, Start Num: 15

Candidate Starts for TiniBug_21:

(Start: 15 @12024 has 162 MA's), (Start: 23 @12093 has 1 MA's), (31, 12180), (59, 12360), (67, 12387), (85, 12471), (87, 12480), (97, 12540), (99, 12552), (110, 12627), (119, 12669), (129, 12711), (131, 12720), (134, 12741), (142, 12780), (158, 12858), (169, 12936), (196, 13101), (214, 13194), (218, 13215), (220, 13224), (266, 13461), (272, 13485), (276, 13500), (282, 13533), (303, 13620), (321, 13707), (324, 13728), (339, 13812), (342, 13824), (346, 13845), (401, 14001), (440, 14082), (454, 14148), (457, 14169), (464, 14205), (476, 14256), (480, 14274), (487, 14313), (503, 14391), (527, 14478), (532, 14493), (540, 14535), (556, 14589), (602, 14829), (625, 14904), (651, 15015),

(653, 15036), (654, 15057), (662, 15177), (676, 15348), (684, 15429), (685, 15438), (696, 15510), (705, 15540), (709, 15561), (727, 15681), (739, 15753), (742, 15771), (743, 15777),

Gene: Tiri_21 Start: 12088, Stop: 15921, Start Num: 15

Candidate Starts for Tiri_21:

(3, 11869), (10, 12049), (Start: 15 @12088 has 162 MA's), (Start: 23 @12157 has 1 MA's), (31, 12244), (59, 12421), (67, 12448), (85, 12532), (87, 12541), (99, 12613), (110, 12688), (129, 12772), (131, 12781), (134, 12802), (142, 12841), (158, 12919), (169, 12997), (184, 13087), (196, 13162), (214, 13255), (216, 13264), (218, 13276), (220, 13285), (256, 13468), (266, 13522), (276, 13561), (282, 13594), (303, 13681), (309, 13705), (324, 13789), (339, 13873), (342, 13885), (346, 13906), (401, 14062), (440, 14143), (451, 14191), (454, 14209), (457, 14230), (464, 14266), (476, 14317), (487, 14374), (503, 14452), (506, 14461), (527, 14539), (540, 14596), (556, 14650), (602, 14890), (625, 14965), (651, 15076), (664, 15295), (666, 15307), (676, 15409), (684, 15490), (685, 15499), (705, 15601), (709, 15622), (727, 15742), (739, 15814), (742, 15832), (743, 15838),

Gene: TomBrady_16 Start: 11465, Stop: 15478, Start Num: 15

Candidate Starts for TomBrady_16:

(Start: 15 @11465 has 162 MA's), (35, 11666), (57, 11780), (67, 11822), (73, 11852), (99, 11987), (100, 11999), (103, 12008), (139, 12197), (142, 12215), (144, 12218), (149, 12239), (151, 12251), (162, 12323), (169, 12371), (192, 12503), (195, 12527), (210, 12608), (236, 12731), (249, 12815), (259, 12851), (266, 12896), (267, 12902), (293, 13010), (298, 13034), (303, 13055), (345, 13274), (363, 13424), (379, 13511), (400, 13619), (429, 13754), (446, 13865), (451, 13883), (456, 13913), (501, 14135), (509, 14159), (513, 14174), (518, 14195), (527, 14222), (535, 14249), (550, 14309), (567, 14399), (573, 14432), (588, 14495), (596, 14552), (602, 14585), (605, 14594), (678, 15098), (679, 15125), (682, 15155), (684, 15167), (685, 15176), (709, 15245), (728, 15326), (741, 15386), (743, 15404), (745, 15413),

Gene: Topper_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Topper_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Torres_17 Start: 11327, Stop: 15460, Start Num: 15

Candidate Starts for Torres_17:

(10, 11288), (Start: 15 @11327 has 162 MA's), (Start: 23 @11396 has 1 MA's), (31, 11483), (41, 11561), (62, 11669), (67, 11690), (74, 11723), (99, 11855), (101, 11870), (103, 11876), (110, 11930), (116, 11960), (131, 12023), (134, 12044), (142, 12083), (158, 12161), (169, 12239), (174, 12263), (214, 12497), (231, 12578), (241, 12638), (251, 12695), (261, 12731), (266, 12764), (272, 12788), (287, 12854), (290, 12863), (303, 12923), (324, 13031), (332, 13076), (355, 13232), (372, 13343), (374, 13352), (376, 13364), (385, 13415), (389, 13433), (394, 13460), (401, 13490), (420, 13583), (429, 13622), (457, 13790), (469, 13844), (476, 13877), (485, 13922), (503, 14003), (504, 14006), (527, 14090), (530, 14096), (532, 14105), (540, 14147), (553, 14183), (556, 14201), (559, 14240), (574, 14300), (602, 14441), (621, 14501), (625, 14516), (666, 14858), (684, 15047), (685, 15056), (694, 15119), (743, 15395),

Gene: TreyKay_21 Start: 12047, Stop: 15883, Start Num: 15

Candidate Starts for TreyKay_21:

(Start: 15 @12047 has 162 MA's), (Start: 23 @12116 has 1 MA's), (31, 12203), (59, 12383), (67, 12410), (87, 12503), (97, 12563), (99, 12575), (110, 12650), (123, 12701), (131, 12743), (134, 12764), (142, 12803), (158, 12881), (169, 12959), (174, 12983), (196, 13124), (214, 13217), (216, 13226), (218, 13238), (220, 13247), (266, 13484), (272, 13508), (276, 13523), (282, 13556), (303, 13643), (309, 13667), (324, 13751), (339, 13835), (342, 13847), (346, 13868), (354, 13949), (401, 14024), (440, 14105), (451, 14153), (454, 14171), (456, 14183), (457, 14192), (464, 14228), (476, 14279), (487, 14336), (503, 14414), (506, 14423), (527, 14501), (532, 14516), (540, 14558), (556, 14612), (602, 14852), (625, 14927), (651, 15038), (664, 15257), (666, 15269), (676, 15371), (684, 15452), (685, 15461), (696, 15533), (705, 15563), (709, 15584), (727, 15704), (739, 15776), (742, 15794), (743, 15800),

Gene: TribbleTrouble_19 Start: 12006, Stop: 16166, Start Num: 15

Candidate Starts for TribbleTrouble_19:

(Start: 15 @12006 has 162 MA's), (Start: 23 @12075 has 1 MA's), (Start: 24 @12096 has 1 MA's), (26, 12102), (31, 12162), (58, 12327), (62, 12345), (67, 12366), (70, 12387), (77, 12411), (85, 12450), (95, 12513), (97, 12519), (99, 12531), (110, 12606), (131, 12699), (134, 12720), (142, 12759), (158, 12837), (165, 12882), (169, 12915), (174, 12939), (180, 12981), (204, 13113), (214, 13173), (218, 13194), (220, 13203), (238, 13296), (251, 13371), (262, 13416), (266, 13440), (271, 13461), (277, 13485), (281, 13509), (294, 13557), (303, 13599), (330, 13755), (339, 13812), (361, 13986), (369, 14016), (374, 14049), (401, 14187), (405, 14214), (413, 14247), (425, 14301), (429, 14319), (433, 14349), (446, 14430), (454, 14466), (469, 14541), (476, 14574), (482, 14619), (488, 14634), (503, 14715), (504, 14718), (525, 14787), (527, 14802), (530, 14808), (532, 14817), (556, 14913), (559, 14952), (579, 15030), (599, 15129), (602, 15153), (625, 15228), (672, 15654), (676, 15684), (677, 15693), (678, 15696), (685, 15774), (709, 15900), (719, 15960), (721, 15978), (736, 16056), (743, 16092), (746, 16107), (747, 16119), (751, 16158),

Gene: TruffulaTree_21 Start: 12076, Stop: 15912, Start Num: 15

Candidate Starts for TruffulaTree_21:

(Start: 15 @12076 has 162 MA's), (Start: 23 @12145 has 1 MA's), (31, 12232), (59, 12409), (67, 12436), (84, 12508), (85, 12520), (87, 12529), (99, 12601), (110, 12676), (129, 12760), (131, 12769), (134, 12790), (142, 12829), (158, 12907), (169, 12985), (184, 13075), (196, 13150), (214, 13243), (216, 13252), (218, 13264), (220, 13273), (272, 13534), (276, 13549), (282, 13582), (303, 13669), (309, 13693), (324, 13777), (339, 13861), (342, 13873), (346, 13894), (401, 14050), (440, 14131), (451, 14179), (454, 14197), (457, 14218), (464, 14254), (476, 14305), (487, 14362), (503, 14440), (506, 14449), (527, 14527), (540, 14584), (556, 14638), (602, 14878), (625, 14953), (651, 15064), (664, 15283), (666, 15295), (684, 15481), (685, 15490), (696, 15562), (705, 15592), (709, 15613), (727, 15733), (739, 15805), (742, 15823), (743, 15829),

Gene: Twitch_21 Start: 12116, Stop: 15949, Start Num: 15

Candidate Starts for Twitch_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (31, 12272), (41, 12347), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (151, 12905), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (532, 14582), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15518), (685, 15527), (696, 15599), (705, 15629), (709, 15650), (727, 15770), (739, 15842), (742, 15860), (743, 15866),

Gene: Unicorn_20 Start: 11123, Stop: 15124, Start Num: 16

Candidate Starts for Unicorn_20:

(Start: 16 @11123 has 58 MA's), (26, 11216), (37, 11321), (47, 11375), (50, 11393), (55, 11411), (60, 11435), (63, 11441), (69, 11468), (70, 11474), (74, 11486), (83, 11519), (98, 11615), (101, 11633), (102, 11636), (125, 11750), (128, 11765), (152, 11882), (166, 11978), (173, 12017), (178, 12038), (179, 12047), (190, 12107), (222, 12290), (223, 12296), (224, 12299), (237, 12353), (240, 12383), (251, 12443), (255, 12455), (257, 12461), (260, 12476), (264, 12497), (267, 12515), (300, 12653), (303, 12665), (308, 12686), (317, 12725), (341, 12779), (342, 12785), (354, 12887), (361, 12947), (374, 13010), (389, 13091), (392, 13106), (393, 13109), (401, 13148), (407, 13184), (411, 13199), (412, 13205), (418, 13232), (424, 13256), (436, 13331), (446, 13391), (457, 13448), (464, 13484), (476, 13535), (503, 13676), (504, 13679), (527, 13763), (535, 13790), (556, 13874), (559, 13913), (602, 14114), (625, 14189), (659, 14408), (665, 14522), (676, 14624), (677, 14633), (684, 14705), (696, 14789), (705, 14819), (709, 14840), (727, 14957), (739, 15032), (746, 15071), (747, 15083),

Gene: Urkel_21 Start: 12024, Stop: 15863, Start Num: 15

Candidate Starts for Urkel_21:

(Start: 15 @12024 has 162 MA's), (Start: 23 @12093 has 1 MA's), (31, 12180), (59, 12360), (67, 12387), (85, 12471), (87, 12480), (97, 12540), (99, 12552), (110, 12627), (123, 12678), (131, 12720), (134, 12741), (142, 12780), (158, 12858), (169, 12936), (174, 12960), (196, 13101), (214, 13194), (218, 13215), (220, 13224), (266, 13461), (272, 13485), (276, 13500), (282, 13533), (303, 13620), (321, 13707), (324, 13728), (339, 13812), (342, 13824), (346, 13845), (401, 14001), (440, 14082), (454, 14148), (457, 14169), (464, 14205), (476, 14256), (480, 14274), (487, 14313), (503, 14391), (527, 14478), (532, 14493), (540, 14535), (556, 14589), (602, 14829), (625, 14904), (651, 15015), (653, 15036), (654, 15057), (662, 15177), (676, 15351), (684, 15432), (685, 15441), (696, 15513), (705, 15543), (709, 15564), (727, 15684), (739, 15756), (742, 15774), (743, 15780),

Gene: Validus_21 Start: 11056, Stop: 15213, Start Num: 16

Candidate Starts for Validus_21:

(9, 11008), (Start: 16 @11056 has 58 MA's), (26, 11149), (Start: 28 @11161 has 2 MA's), (46, 11305), (47, 11308), (76, 11428), (91, 11515), (98, 11548), (109, 11623), (110, 11626), (125, 11692), (146, 11794), (152, 11836), (155, 11851), (156, 11860), (161, 11887), (165, 11917), (169, 11950), (178, 11992), (190, 12061), (222, 12247), (223, 12253), (233, 12289), (237, 12310), (238, 12322), (240, 12340), (251, 12400), (255, 12412), (257, 12418), (260, 12433), (263, 12451), (264, 12454), (271, 12487), (295, 12583), (303, 12622), (308, 12643), (315, 12673), (320, 12706), (334, 12790), (339, 12820), (342, 12832), (354, 12934), (366, 13012), (374, 13057), (378, 13081), (388, 13135), (389, 13138), (392, 13153), (393, 13156), (401, 13195), (405, 13222), (411, 13246), (412, 13252), (418, 13279), (429, 13327), (436, 13378), (439, 13396), (445, 13432), (446, 13438), (451, 13456), (455, 13483), (457, 13495), (469, 13549), (476, 13582), (488, 13642), (503, 13723), (504, 13726), (527, 13810), (532, 13825), (540, 13867), (559, 13960), (576, 14026), (602, 14161), (661, 14509), (677, 14701), (684, 14773), (685, 14782), (689, 14803), (691, 14845), (727, 15040), (729, 15052), (739, 15112), (743, 15136), (748, 15175),

Gene: Veliki_21 Start: 12116, Stop: 15952, Start Num: 15

Candidate Starts for Veliki_21:

(Start: 15 @12116 has 162 MA's), (Start: 23 @12185 has 1 MA's), (Start: 24 @12206 has 1 MA's), (31, 12272), (59, 12449), (67, 12476), (84, 12548), (85, 12560), (87, 12569), (99, 12641), (110, 12716), (129, 12800), (131, 12809), (134, 12830), (142, 12869), (158, 12947), (169, 13025), (184, 13115), (196, 13190), (214, 13283), (216, 13292), (218, 13304), (220, 13313), (266, 13550), (276, 13589), (282, 13622), (303, 13709), (309, 13733), (324, 13817), (339, 13901), (342, 13913), (346, 13934), (401, 14090), (440, 14171), (451, 14219), (454, 14237), (457, 14258), (464, 14294), (476, 14345), (487, 14402), (503, 14480), (506, 14489), (527, 14567), (540, 14624), (556, 14678), (602, 14918), (625, 14993), (651, 15104), (664, 15323), (666, 15335), (684, 15521), (685, 15530), (696, 15602), (705, 15632), (709, 15653), (727, 15773), (739, 15845), (742, 15863), (743, 15869),

Gene: Waterfoul_19 Start: 12158, Stop: 16267, Start Num: 14

Candidate Starts for Waterfoul_19:

(Start: 14 @12158 has 31 MA's), (43, 12416), (62, 12500), (77, 12566), (87, 12614), (97, 12674), (99, 12686), (103, 12707), (110, 12761), (116, 12791), (131, 12854), (134, 12875), (148, 12932), (158, 12992), (169, 13070), (174, 13094), (180, 13136), (186, 13169), (214, 13328), (218, 13349), (238, 13427), (249, 13490), (252, 13505), (253, 13508), (256, 13517), (258, 13523), (260, 13535), (270, 13589), (295, 13691), (303, 13730), (332, 13883), (340, 13925), (345, 13949), (355, 14039), (357, 14072), (384, 14213), (385, 14222), (389, 14240), (394, 14267), (410, 14345), (429, 14429), (449, 14552), (461, 14618), (483, 14720), (503, 14813), (506, 14822), (512, 14843), (522, 14876), (535, 14927), (538, 14948), (542, 14963), (543, 14969), (559, 15053), (571, 15083), (573, 15101), (583, 15140), (594, 15200), (601, 15233), (606, 15254), (614, 15278), (621, 15311), (642, 15395), (653, 15467), (676, 15776), (680, 15830), (682, 15845), (684, 15857), (689, 15887), (722, 16073), (727, 16097), (729, 16109), (744, 16196), (747, 16220),

Gene: Wendigo_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Wendigo_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: Wintermute_22 Start: 13313, Stop: 17488, Start Num: 16

Candidate Starts for Wintermute_22:

(9, 13277), (Start: 16 @13313 has 58 MA's), (35, 13511), (85, 13751), (87, 13760), (103, 13853), (122, 13955), (131, 14000), (142, 14060), (158, 14138), (169, 14216), (183, 14303), (184, 14306), (190, 14336), (194, 14369), (200, 14393), (215, 14477), (221, 14507), (226, 14534), (247, 14642), (250, 14663), (252, 14675), (256, 14687), (266, 14741), (303, 14900), (308, 14921), (324, 15029), (343, 15149), (395, 15491), (401, 15509), (411, 15560), (413, 15569), (423, 15614), (427, 15635), (452, 15755), (470, 15854), (471, 15866), (475, 15875), (494, 15947), (503, 15998), (504, 16001), (512, 16028), (540, 16127), (546, 16145), (559, 16220), (600, 16409), (602, 16421), (625, 16496), (634, 16526), (654, 16682), (662, 16802), (670, 16910), (684, 17060), (703, 17189), (705, 17192), (720, 17291), (726, 17318), (743, 17414), (750, 17477),

Gene: Ximenita_21 Start: 11247, Stop: 15251, Start Num: 16

Candidate Starts for Ximenita_21:

(Start: 16 @11247 has 58 MA's), (26, 11340), (37, 11445), (47, 11499), (50, 11517), (60, 11559), (69, 11592), (70, 11598), (88, 11679), (98, 11739), (101, 11757), (102, 11760), (125, 11874), (128, 11889), (152, 12006), (157, 12033), (166, 12102), (178, 12162), (179, 12171), (180, 12183), (190, 12231), (222, 12414), (223, 12420), (224, 12423), (251, 12567), (255, 12579), (257, 12585), (260, 12600), (264, 12621), (267, 12639), (300, 12777), (303, 12789), (308, 12810), (317, 12849), (341, 12903), (342, 12909), (354, 13011), (361, 13071), (374, 13134), (388, 13212), (389, 13215), (392, 13230), (401, 13272), (405, 13299), (407, 13308), (411, 13323), (412, 13329), (418, 13356), (424, 13380), (425, 13386), (433, 13434), (436, 13455), (451, 13533), (454, 13551), (457, 13572), (464, 13608), (476, 13659), (503, 13800), (506, 13809), (527, 13887), (556, 13998), (558, 14010), (602, 14238), (625, 14313), (677, 14757), (684, 14829), (685, 14838), (696, 14913), (705, 14943), (709, 14964), (727, 15081), (739, 15156), (746, 15195), (747, 15207), (751, 15246),

Gene: Y10_22 Start: 13313, Stop: 17488, Start Num: 16

Candidate Starts for Y10_22:

(9, 13277), (Start: 16 @13313 has 58 MA's), (35, 13511), (85, 13751), (87, 13760), (103, 13853), (122, 13955), (131, 14000), (142, 14060), (158, 14138), (169, 14216), (183, 14303), (184, 14306), (190, 14336), (194, 14369), (200, 14393), (215, 14477), (221, 14507), (226, 14534), (247, 14642), (250, 14663), (252, 14675), (256, 14687), (266, 14741), (303, 14900), (308, 14921), (324, 15029), (343, 15149), (395, 15491), (401, 15509), (411, 15560), (413, 15569), (423, 15614), (427, 15635), (452, 15755), (470, 15854), (471, 15866), (475, 15875), (494, 15947), (503, 15998), (504, 16001), (512, 16028), (540, 16127), (546, 16145), (559, 16220), (600, 16409), (602, 16421), (625, 16496), (634, 16526), (654, 16682), (662, 16802), (670, 16910), (684, 17060), (700, 17180), (703, 17189), (705, 17192), (720, 17291), (726, 17318), (743, 17414), (750, 17477),

Gene: Y2_22 Start: 13313, Stop: 17488, Start Num: 16

Candidate Starts for Y2_22:

(9, 13277), (Start: 16 @13313 has 58 MA's), (35, 13511), (85, 13751), (87, 13760), (103, 13853), (122, 13955), (131, 14000), (142, 14060), (158, 14138), (169, 14216), (183, 14303), (184, 14306), (190, 14336), (194, 14369), (200, 14393), (215, 14477), (221, 14507), (226, 14534), (247, 14642), (250, 14663), (252, 14675), (256, 14687), (266, 14741), (303, 14900), (308, 14921), (324, 15029), (343, 15149), (395, 15491), (401, 15509), (411, 15560), (413, 15569), (423, 15614), (427, 15635), (452, 15755), (470, 15854), (471, 15866), (475, 15875), (494, 15947), (503, 15998), (504, 16001), (512, 16028), (540, 16127), (546, 16145), (559, 16220), (600, 16409), (602, 16421), (625, 16496), (634, 16526), (654, 16682), (662, 16802), (670, 16910), (684, 17060), (700, 17180), (703, 17189), (705, 17192), (720, 17291), (726, 17318), (743, 17414), (750, 17477),

Gene: YoureAdopted_20 Start: 12049, Stop: 15885, Start Num: 15

Candidate Starts for YoureAdopted_20:

(Start: 15 @12049 has 162 MA's), (Start: 23 @12118 has 1 MA's), (Start: 24 @12139 has 1 MA's), (31, 12205), (59, 12382), (67, 12409), (84, 12481), (85, 12493), (87, 12502), (99, 12574), (110, 12649), (129, 12733), (131, 12742), (134, 12763), (142, 12802), (158, 12880), (169, 12958), (184, 13048), (196, 13123), (214, 13216), (216, 13225), (218, 13237), (220, 13246), (266, 13483), (276, 13522), (282, 13555), (303, 13642), (309, 13666), (324, 13750), (339, 13834), (342, 13846), (346, 13867), (401, 14023), (440, 14104), (451, 14152), (454, 14170), (457, 14191), (464, 14227), (476, 14278), (487, 14335), (503, 14413), (506, 14422), (527, 14500), (532, 14515), (540, 14557), (556, 14611), (602, 14851), (625, 14926), (651, 15037), (664, 15256), (666, 15268), (684, 15454), (685, 15463), (705, 15565), (709, 15586), (727, 15706), (739, 15778), (742, 15796), (743, 15802),

Gene: Yuna_21 Start: 11197, Stop: 15186, Start Num: 16

Candidate Starts for Yuna_21:

(Start: 16 @11197 has 58 MA's), (26, 11290), (48, 11458), (54, 11479), (63, 11515), (70, 11548), (71, 11551), (74, 11560), (80, 11584), (96, 11677), (98, 11689), (102, 11710), (145, 11926), (152, 11965), (155, 11980), (161, 12016), (168, 12076), (169, 12079), (178, 12121), (190, 12190), (222, 12376), (223, 12382), (224, 12385), (227, 12391), (233, 12418), (235, 12427), (237, 12439), (240, 12469), (251, 12529), (255, 12541), (257, 12547), (260, 12562), (263, 12580), (264, 12583), (267, 12601), (285, 12676), (300, 12739), (303, 12751), (308, 12772), (317, 12811), (338, 12856), (342, 12871), (361, 13033), (374, 13096), (379, 13123), (393, 13195), (401, 13234), (411, 13285), (413, 13294), (415, 13306), (422, 13336), (424, 13342), (429, 13366), (446, 13477), (451, 13495), (457, 13534), (476, 13621), (478, 13633), (503, 13762), (504, 13765), (527, 13849), (558, 13972), (602, 14200), (621, 14260), (625, 14275), (663, 14590), (677, 14722), (679, 14752), (683, 14791), (684, 14794), (687, 14812), (696, 14866), (705, 14896), (709, 14917), (727, 15028), (743, 15121),

Gene: Yunkel11_21 Start: 11016, Stop: 15143, Start Num: 16

Candidate Starts for Yunkel11_21:

(9, 10968), (Start: 16 @11016 has 58 MA's), (26, 11109), (42, 11241), (46, 11265), (53, 11295), (57, 11316), (60, 11328), (76, 11388), (91, 11475), (98, 11508), (101, 11526), (102, 11529), (114, 11601), (146, 11745), (152, 11787), (155, 11802), (161, 11838), (170, 11910), (190, 12012), (222, 12195),

(229, 12222), (234, 12240), (235, 12246), (240, 12288), (255, 12360), (257, 12366), (260, 12381), (264, 12402), (267, 12420), (271, 12435), (281, 12483), (292, 12516), (295, 12531), (303, 12570), (308, 12591), (315, 12621), (344, 12789), (347, 12840), (374, 13005), (378, 13029), (389, 13086), (398, 13137), (405, 13170), (407, 13179), (424, 13251), (436, 13326), (439, 13344), (446, 13386), (451, 13404), (455, 13431), (457, 13443), (481, 13572), (488, 13590), (503, 13671), (504, 13674), (527, 13758), (539, 13812), (540, 13815), (559, 13908), (576, 13974), (602, 14109), (637, 14235), (676, 14631), (677, 14640), (684, 14712), (696, 14796), (727, 14964), (739, 15036), (743, 15060), (748, 15099),

Gene: Zabiza_21 Start: 12077, Stop: 15916, Start Num: 15

Candidate Starts for Zabiza_21:

(Start: 15 @12077 has 162 MA's), (Start: 23 @12146 has 1 MA's), (31, 12233), (59, 12410), (67, 12437), (84, 12509), (85, 12521), (87, 12530), (99, 12602), (110, 12677), (129, 12761), (131, 12770), (134, 12791), (142, 12830), (158, 12908), (169, 12986), (184, 13076), (196, 13151), (214, 13244), (216, 13253), (218, 13265), (220, 13274), (272, 13535), (276, 13550), (282, 13583), (303, 13670), (309, 13694), (324, 13778), (339, 13862), (342, 13874), (346, 13895), (401, 14051), (440, 14132), (451, 14180), (454, 14198), (457, 14219), (464, 14255), (476, 14306), (487, 14363), (503, 14441), (506, 14450), (527, 14528), (540, 14585), (556, 14639), (602, 14879), (625, 14954), (651, 15065), (664, 15284), (666, 15296), (684, 15485), (685, 15494), (696, 15566), (705, 15596), (709, 15617), (727, 15737), (739, 15809), (742, 15827), (743, 15833),

Gene: Zavala_21 Start: 12057, Stop: 15890, Start Num: 15

Candidate Starts for Zavala_21:

(Start: 15 @12057 has 162 MA's), (Start: 23 @12126 has 1 MA's), (31, 12213), (59, 12390), (67, 12417), (84, 12489), (85, 12501), (87, 12510), (99, 12582), (110, 12657), (129, 12741), (131, 12750), (134, 12771), (142, 12810), (158, 12888), (169, 12966), (184, 13056), (196, 13131), (214, 13224), (216, 13233), (218, 13245), (220, 13254), (266, 13491), (276, 13530), (282, 13563), (303, 13650), (309, 13674), (324, 13758), (339, 13842), (342, 13854), (346, 13875), (401, 14031), (451, 14160), (454, 14178), (457, 14199), (464, 14235), (476, 14286), (487, 14343), (503, 14421), (506, 14430), (527, 14508), (532, 14523), (540, 14565), (556, 14619), (602, 14859), (625, 14934), (651, 15045), (664, 15264), (666, 15276), (684, 15459), (685, 15468), (696, 15540), (705, 15570), (709, 15591), (727, 15711), (739, 15783), (742, 15801), (743, 15807),

Gene: ZoMa_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for ZoMa_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),

Gene: ZoeJ_17 Start: 10077, Stop: 13724, Start Num: 14

Candidate Starts for ZoeJ_17:

(Start: 14 @10077 has 31 MA's), (Start: 23 @10149 has 1 MA's), (66, 10383), (70, 10398), (97, 10515), (99, 10527), (110, 10602), (131, 10695), (158, 10833), (159, 10836), (164, 10875), (169, 10911), (174, 10935), (177, 10944), (178, 10956), (181, 10980), (184, 11001), (189, 11025), (190, 11031), (195, 11067), (196, 11076), (204, 11109), (206, 11121), (210, 11148), (249, 11331), (251, 11343), (253, 11349), (262, 11388), (266, 11412), (307, 11460), (311, 11472), (323, 11505), (356, 11736), (367, 11781), (374, 11811), (389, 11880), (394, 11907), (402, 11940), (428, 12027), (434,

12060), (438, 12081), (443, 12105), (448, 12135), (511, 12378), (537, 12471), (557, 12549), (590, 12672), (615, 12777), (671, 13188), (676, 13218), (677, 13227), (679, 13257), (727, 13554), (729, 13566), (743, 13647),

Gene: Zombie_16 Start: 11464, Stop: 15477, Start Num: 15

Candidate Starts for Zombie_16:

(Start: 15 @11464 has 162 MA's), (35, 11665), (57, 11779), (67, 11821), (73, 11851), (99, 11986), (100, 11998), (103, 12007), (139, 12196), (142, 12214), (144, 12217), (149, 12238), (151, 12250), (162, 12322), (169, 12370), (192, 12502), (195, 12526), (210, 12607), (236, 12730), (249, 12814), (259, 12850), (266, 12895), (267, 12901), (293, 13009), (298, 13033), (303, 13054), (345, 13273), (363, 13423), (379, 13510), (400, 13618), (429, 13753), (446, 13864), (451, 13882), (456, 13912), (501, 14134), (509, 14158), (513, 14173), (518, 14194), (527, 14221), (535, 14248), (550, 14308), (567, 14398), (573, 14431), (588, 14494), (596, 14551), (602, 14584), (605, 14593), (678, 15097), (679, 15124), (682, 15154), (684, 15166), (685, 15175), (709, 15244), (728, 15325), (741, 15385), (743, 15403), (745, 15412),