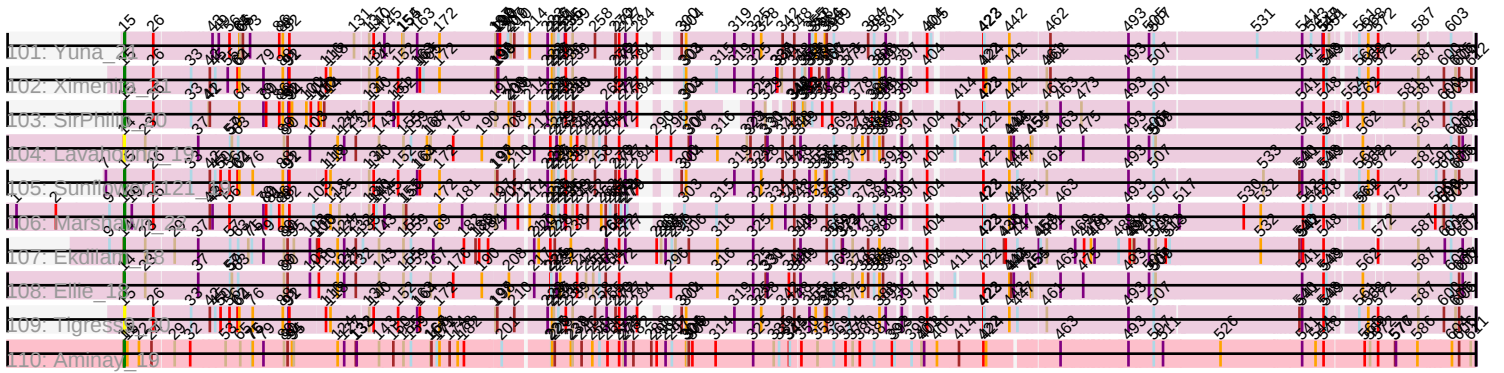


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Pham 262735



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 262735 Report

This analysis was run 02/07/26 on database version 634.

Pham number 262735 has 262 members, 31 are drafts.

Phages represented in each track:

- Track 1 : NoShow_16
- Track 2 : PinkYoshi_16, Darionha_16, CLED96_16, Frosty24_16, ShaboiShabazz_16, Crespo_16, Jeilious_16, Gomashi_16, DingDing_16, LouisV14_16, Jolene_16, Rattrick_16, Periodt_16, AizenPogi_16, BQuat_16, Jane_16, Remy19_16, Zombie_16, CassieYates_16, Camri_16, Angel_16, Coleslaw_16, Halo_16, OctaviousRex_16, DMoney_16, ECartman_16, Barkley26_16, Kasen3_16, Richarlison_16, Wendigo_16, BPs_16, ZoMa_16, Gideon_16, Peeb_16, Jonghyun_16, JorRay_16, Sweets_16, Phloodle_16, Neoh_16, Cherrybomb426_16, Sizemore_16, Schiebel_16, Plagueis_16, Phreak_16, Olga_16, Aroostook_16, Ruriko_16, Phish_16, Hope_16, DNAIII_0016, Hotshotbaby7_16, Mowgli_16, Avrafan_16, Chance64_16, BruceB_16, TinaBug_16, Marmie_16, Cedasite_16, Maliketh_16, TomBrady_16, Renaissance_16, GoldenAsh_16, Annihilator_16, Kareem_16, AzulaCat_16
- Track 3 : Grizzly_16
- Track 4 : Taheera_16, Terror_16
- Track 5 : Rabbs_16, Sneeze_16
- Track 6 : Liefie_16
- Track 7 : Cambiare_17
- Track 8 : GodSpeed_17
- Track 9 : Cloudyecho_16
- Track 10 : MOOREtheMARYer_16
- Track 11 : Pinnie_17
- Track 12 : Lemuria_16
- Track 13 : Jolie2_16
- Track 14 : Mercurio_17
- Track 15 : Antsirabe_16
- Track 16 : YangYin_16
- Track 17 : Stargaze_16
- Track 18 : Piatt_21, Durfee_21, BaghaKamala_21, JAWS_21, Boiii_21, Peel_21, Topper_21, Inky_21, Asayake_21, BGlluviae_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, Dalmuri_21, Lunahalos_21, CaseJules_21
- Track 19 : LilPharaoh_17, Mdavu_17, Enkosi_17, Nutello_17, Amelie_17, Teejan_17, SgtBeansprout_17, Trice_17, Torres_17, Biglebops_17
- Track 20 : Apocalypse_21
- Track 21 : AlishaPH_21, Emerson_21, Padpat_21

- Track 22 : Murucutumbu_21, Stinson_21, LaterM_21, Ageofdapage_21
- Track 23 : Slimphazie_21, Jayhawk_21, HedwigODU_21, Atiba_21, ActinUp_21, Tachez_21, Zabiza_21, Ramen_21, Adephagia_21, TruffulaTree_21, Rapunzel97_21
- Track 24 : Chavito_21
- Track 25 : CrimD_21
- Track 26 : Bella96_21, DartGoblin_21
- Track 27 : McMater_21, Peanam_21, Niklas_21, Dartin_21, Richo_21
- Track 28 : YoureAdopted_20
- Track 29 : Devera_21, Dole_21, Illumine_21
- Track 30 : Joy99_21, Geraldini_21, MeaningOfLife_21
- Track 31 : Mynx_21, Pokerus_20
- Track 32 : Prithvi_21, LindNT_21, TreyKay_21
- Track 33 : Clipper_21, MacKat_21
- Track 34 : MarkPhew_21
- Track 35 : CheetoDust_21
- Track 36 : TaiwanKao_22
- Track 37 : Adonis_21
- Track 38 : Oscar_20
- Track 39 : Zavala_21
- Track 40 : Angelica_21, Sulley_21, Deby_21
- Track 41 : TingHuaYa_21
- Track 42 : Tiri_21
- Track 43 : Anaya_22
- Track 44 : Anma_21, SamuelLPlaqson_21, DrHayes_21, Urkel_21
- Track 45 : Guanica15_21, Yunkel11_21
- Track 46 : Nikao_17
- Track 47 : Validus_21
- Track 48 : Nibb_20
- Track 49 : Curiosium_22
- Track 50 : Pisa1_20, Pisa4_20
- Track 51 : Beezoo_21
- Track 52 : CallaLilly_21
- Track 53 : Shaobing_21
- Track 54 : LeMond_20
- Track 55 : Scarlett_20
- Track 56 : Veliki_21
- Track 57 : TiniBug_21
- Track 58 : Bern_21
- Track 59 : KiSi_20
- Track 60 : Chris_20
- Track 61 : Ganymede_22
- Track 62 : Efra2_21
- Track 63 : LastHope_21
- Track 64 : Homura_21
- Track 65 : QuincyRose_20
- Track 66 : Megsy_21
- Track 67 : Llorens_21
- Track 68 : Neighly_19, Larva_19
- Track 69 : MacnCheese_21
- Track 70 : TBond007_20
- Track 71 : Pharb_20
- Track 72 : Keshu_20
- Track 73 : Pixie_20

- Track 74 : Hurricane_20
- Track 75 : TribbleTrouble_19
- Track 76 : Lea83_20, ShedlockHolmes_20
- Track 77 : Paola_19, Gengar_19, Guillsminger_19, Leston_19
- Track 78 : Collard_19, InvictusManeo_19, Agent47_19, ViviJ_18, DoubleChamp_19, BananenDer11_19
- Track 79 : Thyatira_19, Waterfoul_19
- Track 80 : Miryou_19
- Track 81 : Kratio_18
- Track 82 : Psycho_19
- Track 83 : Dadosky_19
- Track 84 : Feyre_19
- Track 85 : AlleyCat_19
- Track 86 : OkiRoe_19
- Track 87 : SoSeph_19, Heftyboy_19
- Track 88 : Edugator_18
- Track 89 : PhelpsODU_20, Unicorn_20
- Track 90 : DarthP_20, Hammy_20
- Track 91 : Krueger_20
- Track 92 : Syra333_20
- Track 93 : November_19
- Track 94 : Amgine_19
- Track 95 : Fefferhead_20
- Track 96 : Cain_20, Bryler_20, Tierra_20, Phrank_20
- Track 97 : Applecrisp_19
- Track 98 : Shadow1_19
- Track 99 : Amohnition_20
- Track 100 : TClif_20
- Track 101 : Yuna_21
- Track 102 : Ximenita_21
- Track 103 : SirPhilip_20
- Track 104 : Lavahound_19
- Track 105 : Sunflower1121_19
- Track 106 : Marshawn_22
- Track 107 : Ekdilam_18
- Track 108 : Ellie_18
- Track 109 : Tigress9_20
- Track 110 : Aminay_19

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

The start number called the most often in the published annotations is 14, it was called in 171 of the 231 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ActinUp_21, Adephagia_21, Adonis_21, Ageofdapage_21, AizenPogi_16, AlishaPH_21, Amelie_17, Amgine_19, Aminay_19, Amohnition_20, Anaya_22, Angel_16, Angelica_21, Anma_21, Annihilator_16, Apocalypse_21, Applecrisp_19, Aroostook_16, Asayake_21, Atiba_21, Avrafan_16, AzulaCat_16, BEEST_21, BGlluviae_21, BPs_16, BQuat_16, BaghaKamala_21, Barkley26_16, BarrelRoll_21,

Beezoo_21, Bella96_21, Bern_21, Binglebops_17, Blizzard_21, Boiiii_21, BruceB_16, CLED96_16, CREW_21, CallaLilly_21, Camri_16, Capricorn_21, CaseJules_21, CassieYates_16, Cedasite_16, Chance64_16, CheetoDust_21, Cherrybomb426_16, Clipper_21, Coleslaw_16, Crespo_16, CrimD_21, DMoney_16, DNAIII_0016, Dalmuri_21, Darionha_16, DartGoblin_21, DarthP_20, Deby_21, Devera_21, DingDing_16, 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, Jeilious_16, Jolene_16, Jonghyun_16, JorRay_16, Joy99_21, Kareem_16, Kasen3_16, Keshu_20, LaterM_21, Lavahound_19, Lea83_20, Liefie_16, LilPharaoh_17, LindNT_21, Llorens_21, LouisV14_16, Lunahalos_21, MacKat_21, MacnCheese_21, Maliketh_16, Marmie_16, Mdavu_17, MeaningOfLife_21, Megsy_21, Mowgli_16, Murucutumbu_21, Mynx_21, Neoh_16, Nikao_17, November_19, Nutello_17, OctaviousRex_16, Olga_16, Padfoot_21, Padpat_21, Peeb_16, Peel_21, Periodt_16, Pharb_20, Phish_16, Phloodle_16, Phreak_16, Piatt_21, PinkYoshi_16, Pisa1_20, Pisa4_20, Pixie_20, Plagueis_16, Pokerus_20, Prithvi_21, QuincyRose_20, Rabbs_16, Ramen_21, Rapunzel97_21, Rattrick_16, Remy19_16, Renaissance_16, Richarlison_16, Rosmarinus_21, Ruriko_16, SamuelLPlaqueson_21, Schiebel_16, SgtBeansprout_17, ShaboiShabazz_16, ShedlockHolmes_20, ShiaSurprise_21, Sizemore_16, Slimphazie_21, Sneeze_16, Spock_21, Stinson_21, Sulley_21, Sweets_16, TBond007_20, Tachez_21, Taheera_16, TaiwanKao_22, Teejan_17, Terror_16, TinaBug_16, TiniBug_21, Tiri_21, TomBrady_16, Topper_21, Torres_17, TreyKay_21, TribbleTrouble_19, Trice_17, TruffulaTree_21, Twitch_21, Urkel_21, Veliki_21, Wendigo_16, YoureAdopted_20, Zabiza_21, Zavala_21, ZoMa_16, Zombie_16,

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

-

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

- Agent47_19, AlleyCat_19, Antsirabe_16, BananenDer11_19, Bryler_20, Cain_20, Cambiare_17, Chavito_21, Chris_20, Cloudyecho_16, Collard_19, Curiosium_22, Dadosky_19, Dartin_21, DoubleChamp_19, Edugator_18, Efra2_21, Feyre_19, Gengar_19, GodSpeed_17, Guanica15_21, Guillsminger_19, Heftyboy_19, InvictusManeo_19, Jolie2_16, KiSi_20, Kratio_18, Krueger_20, Larva_19, LastHope_21, LeMond_20, Lemuria_16, Leston_19, MOOREtheMARYer_16, MarkPhew_21, Marshawn_22, McMatr_21, Mercurio_17, Miryou_19, Neighly_19, Nibb_20, Niklas_21, NoShow_16, OkiRoe_19, Oscar_20, Paola_19, Peanam_21, PhelpsODU_20, Phrank_20, Pinnie_17, Psycho_19, Richo_21, Scarlett_20, Shadow1_19, Shaobing_21, SirPhilip_20, SoSeph_19, Stargaze_16, Sunflower1121_19, Syra333_20, TClif_20, Thyatira_19, Tierra_20, Tigress9_20, TingHuaYa_21, Unicorn_20, Validus_21, ViviJ_18, Waterfoul_19, Ximenita_21, YangYin_16, Yuna_21, Yunkel11_21,

Summary by start number:

Start 5:

- Found in 1 of 262 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 231
- Called 100.0% of time when present

- Phage (with cluster) where this start called: NoShow_16 (AB),

Start 11:

- Found in 2 of 262 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 231
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Psycho_19 (K5),

Start 13:

- Found in 24 of 262 (9.2%) of genes in pham
- Manual Annotations of this start: 20 of 231
- Called 95.8% of time when present
- Phage (with cluster) where this start called: Agent47_19 (K5), AlleyCat_19 (K5), BananenDer11_19 (K5), Collard_19 (K5), Dadosky_19 (K5), DoubleChamp_19 (K5), Edugator_18 (K5), Feyre_19 (K5), Gengar_19 (K5), Guillsminger_19 (K5), Heftyboy_19 (K5), InvictusManeo_19 (K5), Kratio_18 (K5), Larva_19 (K5), Leston_19 (K5), Miryou_19 (K5), Neighly_19 (K3), OkiRoe_19 (K5), Paola_19 (K5), SoSeph_19 (K5), Thyatira_19 (K5), ViviJ_18 (K5), Waterfoul_19 (K5),

Start 14:

- Found in 189 of 262 (72.1%) of genes in pham
- Manual Annotations of this start: 171 of 231
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ActinUp_21 (K1), Adephagia_21 (K1), Adonis_21 (K1), Ageofdapage_21 (K1), AizenPogi_16 (G1), AlishaPH_21 (K1), Amelie_17 (K1), Amgine_19 (K6), Aminay_19 (K7), Amohnition_20 (K6), Anaya_22 (K1), Angel_16 (G1), Angelica_21 (K1), Anma_21 (K1), Annihilator_16 (G1), Apocalypse_21 (K1), Applecrisp_19 (K6), 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), Bern_21 (K1), Binglebops_17 (K1), Blizzard_21 (K1), Boiii_21 (K1), BruceB_16 (G1), CLED96_16 (G1), CREW_21 (K1), CallaLilly_21 (K1), Camri_16 (G1), Capricorn_21 (K1), CaseJules_21 (K1), CassieYates_16 (G1), Cedasite_16 (G1), Chance64_16 (G1), CheetoDust_21 (K1), Cherrybomb426_16 (G1), Clipper_21 (K1), Coleslaw_16 (G1), Crespo_16 (G1), CrimD_21 (K1), DMoney_16 (G1), DNAll_0016 (G1), Dalmuri_21 (K1), Darionha_16 (G1), DartGoblin_21 (K1), DarthP_20 (K6), Deby_21 (K1), Devera_21 (K1), DingDing_16 (G1), 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), Jeilious_16 (G), Jolene_16 (G1), Jonghyun_16 (G1), JorRay_16 (G1), Joy99_21 (K1), Kareem_16 (G1), Kasen3_16 (G1), Keshu_20 (K3), LaterM_21 (K1), Lavahound_19 (K6), Lea83_20 (K3), Liefie_16 (G1), LilPharaoh_17 (K1), LindNT_21 (K1), Llorens_21 (K1), LouisV14_16 (G1), Lunahalos_21 (K1), MacKat_21 (K1), MacnCheese_21 (K3), Maliketh_16 (G1), Marmie_16 (G1), Mdavu_17 (K1), MeaningOfLife_21 (K1), Megsy_21 (K1), Mowgli_16 (G1), Murucutumbu_21 (K1), Mynx_21 (K1), Neoh_16 (G), Nikao_17 (K1), November_19 (K6), Nutello_17 (K1), OctaviousRex_16 (G1), Olga_16 (G1), Padfoot_21 (K1), Padpat_21 (K1), Peeb_16 (G1), Peel_21 (K1), Periodt_16 (G1), Pharb_20 (K3), Phish_16 (G1), Phloodle_16

(G1), Phreak_16 (G1), Piatt_21 (K1), PinkYoshi_16 (G1), Pisa1_20 (K1), Pisa4_20 (K1), Pixie_20 (K3), Plagueis_16 (G1), Pokerus_20 (K1), Prithvi_21 (K1), QuincyRose_20 (K1), Rabbs_16 (G1), Ramen_21 (K1), Rapunzel97_21 (K1), Rattrick_16 (G1), Remy19_16 (G1), Renaissance_16 (G1), Richarlison_16 (G1), Rosmarinus_21 (K1), Ruriko_16 (G1), SamuelLPiaqson_21 (K1), Schiebel_16 (G1), SgtBeansprout_17 (K1), ShaboiShabazz_16 (G1), ShedlockHolmes_20 (K3), ShiaSurprise_21 (K1), Sizemore_16 (G1), Slimphazie_21 (K1), Sneeze_16 (G1), Spock_21 (K1), Stinson_21 (K1), Sulley_21 (K1), Sweets_16 (G1), TBond007_20 (K3), Tachez_21 (K1), Taheera_16 (G1), TaiwanKao_22 (K1), Teejan_17 (K1), Terror_16 (G1), TinaBug_16 (G1), TiniBug_21 (K1), Tiri_21 (K1), TomBrady_16 (G1), Topper_21 (K1), Torres_17 (K1), TreyKay_21 (K1), TripleTrouble_19 (K3), Trice_17 (K1), TruffulaTree_21 (K1), Twitch_21 (K1), Urkel_21 (K1), Veliki_21 (K1), Wendigo_16 (G1), YoureAdopted_20 (K1), Zabiza_21 (K1), Zavała_21 (K1), ZoMa_16 (G1), Zombie_16 (G1),

Start 15:

- Found in 48 of 262 (18.3%) of genes in pham
- Manual Annotations of this start: 38 of 231
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_16 (G5), Bryler_20 (K6), Cain_20 (K6), Cambiare_17 (G2), Chavito_21 (K1), Chris_20 (K1), Cloudyecho_16 (G3), Curiosium_22 (K1), Dartin_21 (K1), Efra2_21 (K1), GodSpeed_17 (G2), Guanica15_21 (K1), Jolie2_16 (G4), KiSi_20 (K1), Krueger_20 (K6), LastHope_21 (K1), LeMond_20 (K1), Lemuria_16 (G4), MOOREtheMARYer_16 (G3), MarkPhew_21 (K1), Marshawn_22 (K6), McMater_21 (K1), Mercurio_17 (G4), Nibb_20 (K1), Niklas_21 (K1), Oscar_20 (K1), Peanam_21 (K1), PhelpsODU_20 (K6), Phrank_20 (K6), Pinnie_17 (G3), Richo_21 (K1), Scarlett_20 (K1), Shadow1_19 (K6), Shaobing_21 (K1), SirPhilip_20 (K6), Stargaze_16 (G5), Sunflower1121_19 (K6), Syra333_20 (K6), TClif_20 (K6), Tierra_20 (K6), Tigress9_20 (K6), TingHuaYa_21 (K1), Unicorn_20 (K6), Validus_21 (K1), Ximenita_21 (K6), YangYin_16 (G5), Yuna_21 (K6), Yunkel11_21 (K1),

Summary by clusters:

There are 12 clusters represented in this pham: G5, G4, G3, G1, G, K3, K1, AB, K7, K6, K5, G2,

Info for manual annotations of cluster AB:

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

Info for manual annotations of cluster G1:

- Start number 14 was manually annotated 61 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 15 was manually annotated 1 time for cluster G2.

Info for manual annotations of cluster G3:

- Start number 15 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 15 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 15 was manually annotated 2 times for cluster G5.

Info for manual annotations of cluster K1:

- Start number 14 was manually annotated 91 times for cluster K1.
- Start number 15 was manually annotated 16 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 14 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K5:

- Start number 11 was manually annotated 1 time for cluster K5.
- Start number 13 was manually annotated 20 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 14 was manually annotated 9 times for cluster K6.
- Start number 15 was manually annotated 15 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 14 was manually annotated 1 time for cluster K7.

Gene Information:

Gene: ActinUp_21 Start: 12079, Stop: 15918, Start Num: 14

Candidate Starts for ActinUp_21:

(Start: 14 @12079 has 171 MA's), (23, 12148), (29, 12235), (57, 12412), (63, 12439), (78, 12511), (79, 12523), (80, 12532), (90, 12604), (103, 12679), (122, 12763), (124, 12772), (127, 12793), (132, 12832), (143, 12910), (155, 12988), (167, 13078), (176, 13153), (190, 13246), (192, 13255), (194, 13267), (195, 13276), (243, 13537), (248, 13552), (257, 13585), (272, 13672), (278, 13696), (291, 13780), (301, 13864), (304, 13876), (308, 13897), (369, 14053), (379, 14134), (387, 14182), (388, 14200), (391, 14221), (397, 14257), (404, 14308), (413, 14365), (422, 14443), (424, 14452), (442, 14530), (451, 14587), (461, 14641), (493, 14881), (507, 14956), (520, 15067), (532, 15286), (534, 15298), (548, 15487), (549, 15496), (561, 15568), (568, 15598), (572, 15619), (587, 15739), (600, 15811), (602, 15829), (603, 15835),

Gene: Adephagia_21 Start: 12079, Stop: 15915, Start Num: 14

Candidate Starts for Adephagia_21:

(Start: 14 @12079 has 171 MA's), (23, 12148), (29, 12235), (57, 12412), (63, 12439), (78, 12511), (79, 12523), (80, 12532), (90, 12604), (103, 12679), (122, 12763), (124, 12772), (127, 12793), (132, 12832), (143, 12910), (155, 12988), (167, 13078), (176, 13153), (190, 13246), (192, 13255), (194, 13267), (195, 13276), (243, 13537), (248, 13552), (257, 13585), (272, 13672), (278, 13696), (291, 13780), (301, 13864), (304, 13876), (308, 13897), (369, 14053), (379, 14134), (387, 14182), (388, 14200), (391, 14221), (397, 14257), (404, 14308), (413, 14365), (422, 14443), (424, 14452), (442, 14530), (451, 14587), (461, 14641), (493, 14881), (507, 14956), (520, 15067), (532, 15286), (534, 15298), (548, 15484), (549, 15493), (561, 15565), (568, 15595), (572, 15616), (587, 15736), (600, 15808), (602, 15826), (603, 15832),

Gene: Adonis_21 Start: 12088, Stop: 15921, Start Num: 14

Candidate Starts for Adonis_21:

(3, 11869), (10, 12049), (Start: 14 @12088 has 171 MA's), (23, 12157), (29, 12244), (57, 12421), (63, 12448), (79, 12532), (80, 12541), (90, 12613), (103, 12688), (122, 12772), (124, 12781), (127, 12802),

(132, 12841), (143, 12919), (155, 12997), (167, 13087), (176, 13162), (190, 13255), (192, 13264), (194, 13276), (195, 13285), (228, 13468), (238, 13522), (248, 13561), (257, 13594), (272, 13681), (278, 13705), (291, 13789), (301, 13873), (304, 13885), (308, 13906), (369, 14062), (379, 14143), (387, 14191), (388, 14209), (391, 14230), (397, 14266), (404, 14317), (413, 14374), (422, 14452), (424, 14461), (442, 14539), (451, 14596), (461, 14650), (493, 14890), (507, 14965), (520, 15076), (532, 15295), (534, 15307), (548, 15490), (549, 15499), (568, 15601), (572, 15622), (587, 15742), (600, 15814), (602, 15832), (603, 15838),

Gene: Agent47_19 Start: 12236, Stop: 16342, Start Num: 13

Candidate Starts for Agent47_19:

(Start: 13 @12236 has 20 MA's), (24, 12329), (30, 12407), (31, 12431), (39, 12491), (59, 12575), (61, 12587), (80, 12689), (89, 12749), (90, 12761), (95, 12782), (103, 12836), (114, 12884), (124, 12929), (127, 12950), (143, 13067), (155, 13145), (159, 13169), (167, 13235), (176, 13310), (190, 13403), (195, 13433), (226, 13607), (228, 13616), (234, 13646), (238, 13670), (242, 13691), (259, 13751), (272, 13829), (274, 13838), (288, 13916), (296, 13982), (302, 14024), (304, 14033), (311, 14117), (316, 14138), (317, 14171), (323, 14237), (325, 14258), (332, 14312), (334, 14321), (338, 14339), (342, 14357), (343, 14366), (348, 14396), (353, 14432), (361, 14486), (368, 14522), (369, 14528), (371, 14546), (386, 14651), (392, 14717), (422, 14912), (428, 14942), (436, 14975), (447, 15026), (448, 15047), (452, 15062), (453, 15068), (463, 15152), (471, 15200), (480, 15239), (486, 15299), (491, 15332), (496, 15353), (499, 15377), (505, 15407), (516, 15473), (522, 15545), (540, 15860), (541, 15869), (542, 15872), (544, 15914), (548, 15941), (553, 15971), (561, 16022), (566, 16040), (577, 16106), (583, 16154), (587, 16178), (589, 16190), (604, 16271), (606, 16295), (611, 16334),

Gene: Ageofdapage_21 Start: 12015, Stop: 15848, Start Num: 14

Candidate Starts for Ageofdapage_21:

(Start: 14 @12015 has 171 MA's), (23, 12084), (29, 12171), (57, 12351), (63, 12378), (79, 12462), (80, 12471), (89, 12531), (90, 12543), (103, 12618), (113, 12660), (122, 12702), (124, 12711), (127, 12732), (132, 12771), (143, 12849), (155, 12927), (176, 13092), (190, 13185), (194, 13206), (195, 13215), (238, 13452), (243, 13476), (248, 13491), (257, 13524), (272, 13611), (291, 13719), (301, 13803), (304, 13815), (308, 13836), (315, 13917), (369, 13992), (379, 14073), (381, 14082), (387, 14121), (388, 14139), (391, 14160), (397, 14196), (404, 14247), (413, 14304), (422, 14382), (424, 14391), (442, 14469), (445, 14484), (451, 14526), (461, 14580), (493, 14820), (507, 14895), (520, 15006), (532, 15225), (540, 15339), (548, 15420), (549, 15429), (561, 15501), (568, 15531), (572, 15552), (587, 15669), (600, 15741), (603, 15765),

Gene: AizenPogi_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for AizenPogi_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: AlishaPH_21 Start: 12075, Stop: 15908, Start Num: 14

Candidate Starts for AlishaPH_21:

(Start: 14 @12075 has 171 MA's), (23, 12144), (29, 12231), (37, 12306), (57, 12408), (63, 12435), (78, 12507), (79, 12519), (80, 12528), (90, 12600), (103, 12675), (122, 12759), (124, 12768), (127, 12789), (132, 12828), (143, 12906), (155, 12984), (167, 13074), (176, 13149), (190, 13242), (192, 13251), (194, 13263), (195, 13272), (238, 13509), (248, 13548), (257, 13581), (272, 13668), (278, 13692),

(291, 13776), (301, 13860), (304, 13872), (308, 13893), (369, 14049), (379, 14130), (387, 14178), (388, 14196), (391, 14217), (397, 14253), (404, 14304), (413, 14361), (422, 14439), (424, 14448), (442, 14526), (445, 14541), (451, 14583), (461, 14637), (493, 14877), (507, 14952), (520, 15063), (532, 15282), (534, 15294), (548, 15477), (549, 15486), (561, 15558), (568, 15588), (572, 15609), (587, 15729), (600, 15801), (602, 15819), (603, 15825),

Gene: AlleyCat_19 Start: 12112, Stop: 16224, Start Num: 13

Candidate Starts for AlleyCat_19:

(Start: 13 @12112 has 20 MA's), (24, 12205), (30, 12283), (31, 12307), (39, 12367), (59, 12451), (80, 12565), (89, 12625), (90, 12637), (95, 12658), (103, 12712), (114, 12760), (124, 12805), (127, 12826), (143, 12943), (155, 13021), (159, 13045), (165, 13087), (167, 13111), (176, 13186), (190, 13279), (195, 13309), (226, 13483), (234, 13522), (238, 13546), (242, 13567), (259, 13627), (272, 13705), (274, 13714), (288, 13792), (296, 13858), (302, 13900), (304, 13909), (311, 13993), (316, 14014), (317, 14047), (318, 14068), (323, 14113), (325, 14134), (332, 14188), (334, 14197), (338, 14215), (343, 14242), (348, 14272), (353, 14308), (368, 14398), (369, 14404), (371, 14422), (386, 14527), (392, 14593), (422, 14788), (428, 14818), (436, 14851), (447, 14902), (448, 14923), (452, 14938), (453, 14944), (463, 15028), (471, 15076), (480, 15115), (486, 15175), (491, 15208), (496, 15229), (499, 15253), (505, 15283), (516, 15349), (522, 15421), (540, 15736), (541, 15745), (542, 15748), (543, 15775), (544, 15790), (546, 15805), (548, 15817), (553, 15847), (561, 15901), (566, 15919), (577, 15988), (583, 16036), (587, 16060), (589, 16072), (591, 16081), (604, 16153), (606, 16177), (611, 16216),

Gene: Amelie_17 Start: 11327, Stop: 15460, Start Num: 14

Candidate Starts for Amelie_17:

(10, 11288), (Start: 14 @11327 has 171 MA's), (23, 11396), (29, 11483), (37, 11561), (59, 11669), (63, 11690), (71, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (132, 12083), (143, 12161), (155, 12239), (159, 12263), (190, 12497), (208, 12578), (215, 12638), (224, 12695), (233, 12731), (238, 12764), (243, 12788), (260, 12854), (262, 12863), (272, 12923), (291, 13031), (296, 13076), (316, 13232), (324, 13343), (325, 13352), (326, 13364), (334, 13415), (338, 13433), (343, 13460), (348, 13490), (362, 13583), (369, 13622), (391, 13790), (400, 13844), (404, 13877), (412, 13922), (422, 14003), (423, 14006), (442, 14090), (444, 14096), (445, 14105), (451, 14147), (460, 14183), (461, 14201), (463, 14240), (473, 14300), (493, 14441), (505, 14501), (507, 14516), (534, 14858), (548, 15047), (549, 15056), (559, 15119), (603, 15395),

Gene: Amgine_19 Start: 11863, Stop: 16011, Start Num: 14

Candidate Starts for Amgine_19:

(Start: 14 @11863 has 171 MA's), (23, 11932), (37, 12094), (57, 12196), (59, 12202), (63, 12223), (89, 12376), (90, 12388), (103, 12463), (124, 12556), (127, 12577), (132, 12616), (143, 12694), (155, 12772), (159, 12796), (166, 12850), (167, 12862), (176, 12937), (190, 13030), (208, 13111), (217, 13174), (224, 13228), (229, 13249), (232, 13261), (238, 13297), (242, 13318), (251, 13345), (257, 13369), (261, 13390), (264, 13411), (272, 13456), (290, 13582), (296, 13630), (306, 13690), (307, 13696), (316, 13786), (324, 13897), (330, 13948), (331, 13954), (342, 14005), (348, 14044), (349, 14065), (369, 14176), (377, 14236), (382, 14269), (384, 14287), (387, 14305), (388, 14323), (390, 14335), (397, 14380), (404, 14431), (411, 14479), (422, 14557), (442, 14644), (444, 14650), (454, 14716), (455, 14719), (463, 14794), (475, 14860), (493, 14995), (505, 15055), (507, 15070), (509, 15076), (541, 15526), (548, 15598), (549, 15607), (562, 15694), (587, 15847), (603, 15946), (606, 15973), (607, 15985),

Gene: Aminay_19 Start: 11993, Stop: 16294, Start Num: 14

Candidate Starts for Aminay_19:

(Start: 14 @11993 has 171 MA's), (16, 12002), (22, 12041), (24, 12083), (29, 12149), (32, 12194), (53, 12308), (65, 12356), (75, 12395), (76, 12398), (79, 12434), (89, 12503), (90, 12515), (94, 12530), (95, 12536), (124, 12683), (127, 12704), (132, 12743), (133, 12746), (143, 12821), (150, 12866), (155,

12899), (159, 12923), (167, 12989), (168, 12992), (171, 13010), (172, 13019), (174, 13052), (178, 13076), (182, 13097), (201, 13214), (225, 13355), (226, 13358), (228, 13367), (238, 13421), (239, 13427), (246, 13457), (256, 13490), (261, 13514), (266, 13541), (272, 13580), (275, 13595), (277, 13601), (282, 13628), (288, 13688), (290, 13706), (295, 13736), (297, 13757), (304, 13805), (305, 13808), (306, 13814), (308, 13826), (314, 13904), (325, 14030), (335, 14099), (339, 14117), (344, 14150), (345, 14153), (350, 14180), (359, 14234), (369, 14288), (374, 14327), (377, 14348), (380, 14372), (387, 14420), (392, 14480), (393, 14489), (399, 14546), (401, 14579), (403, 14588), (406, 14630), (414, 14696), (422, 14777), (424, 14786), (463, 14993), (493, 15194), (507, 15269), (511, 15299), (526, 15485), (541, 15749), (544, 15794), (548, 15821), (566, 15947), (569, 15965), (572, 15986), (576, 16043), (577, 16046), (586, 16118), (604, 16220), (606, 16244), (611, 16283),

Gene: Amohnition_20 Start: 12196, Stop: 16386, Start Num: 14

Candidate Starts for Amohnition_20:

(9, 12151), (Start: 14 @12196 has 171 MA's), (23, 12265), (29, 12352), (37, 12427), (53, 12514), (54, 12517), (71, 12589), (79, 12640), (80, 12649), (89, 12709), (90, 12721), (95, 12742), (103, 12796), (110, 12826), (124, 12889), (127, 12910), (132, 12949), (143, 13027), (155, 13105), (159, 13129), (167, 13195), (175, 13261), (182, 13303), (186, 13342), (188, 13354), (194, 13384), (195, 13393), (217, 13507), (220, 13522), (228, 13576), (234, 13606), (238, 13630), (242, 13651), (256, 13699), (264, 13744), (265, 13747), (272, 13789), (277, 13810), (285, 13858), (290, 13915), (293, 13930), (297, 13966), (299, 13978), (306, 14023), (307, 14029), (316, 14119), (342, 14338), (348, 14377), (349, 14398), (366, 14485), (369, 14509), (372, 14536), (373, 14539), (377, 14569), (384, 14620), (388, 14656), (404, 14764), (422, 14899), (423, 14902), (438, 14968), (440, 14974), (447, 15013), (457, 15085), (459, 15091), (461, 15112), (469, 15196), (476, 15226), (478, 15247), (481, 15259), (489, 15340), (494, 15373), (497, 15382), (498, 15388), (505, 15430), (512, 15481), (513, 15487), (532, 15778), (540, 15892), (541, 15901), (542, 15904), (548, 15973), (572, 16108), (580, 16177), (587, 16225), (603, 16321), (607, 16360),

Gene: Anaya_22 Start: 12098, Stop: 15934, Start Num: 14

Candidate Starts for Anaya_22:

(Start: 14 @12098 has 171 MA's), (23, 12167), (29, 12254), (57, 12431), (63, 12458), (78, 12530), (79, 12542), (80, 12551), (90, 12623), (103, 12698), (110, 12728), (122, 12782), (124, 12791), (127, 12812), (132, 12851), (143, 12929), (149, 12971), (155, 13007), (159, 13031), (167, 13097), (176, 13172), (190, 13265), (192, 13274), (194, 13286), (195, 13295), (238, 13532), (243, 13556), (248, 13571), (257, 13604), (272, 13691), (278, 13715), (291, 13799), (301, 13883), (304, 13895), (308, 13916), (369, 14072), (379, 14153), (388, 14219), (391, 14240), (397, 14276), (404, 14327), (413, 14384), (422, 14462), (424, 14471), (442, 14549), (451, 14606), (461, 14660), (493, 14900), (507, 14975), (509, 14981), (520, 15086), (532, 15305), (548, 15503), (549, 15512), (568, 15614), (572, 15635), (581, 15710), (587, 15755), (600, 15827), (602, 15845), (603, 15851),

Gene: Angel_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Angel_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Angelica_21 Start: 12050, Stop: 15883, Start Num: 14

Candidate Starts for Angelica_21:

(Start: 14 @12050 has 171 MA's), (23, 12119), (29, 12206), (57, 12383), (63, 12410), (79, 12494), (80, 12503), (90, 12575), (103, 12650), (122, 12734), (124, 12743), (127, 12764), (132, 12803), (143, 12881), (155, 12959), (167, 13049), (176, 13124), (190, 13217), (194, 13238), (195, 13247), (238, 13484), (248, 13523), (257, 13556), (272, 13643), (278, 13667), (291, 13751), (301, 13835), (304, 13847), (308, 13868), (369, 14024), (379, 14105), (387, 14153), (388, 14171), (391, 14192), (397, 14228), (404, 14279), (413, 14336), (422, 14414), (424, 14423), (442, 14501), (445, 14516), (451, 14558), (461, 14612), (493, 14852), (507, 14927), (520, 15038), (532, 15257), (534, 15269), (548, 15452), (549, 15461), (568, 15563), (572, 15584), (587, 15704), (600, 15776), (602, 15794), (603, 15800),

Gene: Anma_21 Start: 12024, Stop: 15863, Start Num: 14

Candidate Starts for Anma_21:

(Start: 14 @12024 has 171 MA's), (23, 12093), (29, 12180), (57, 12360), (63, 12387), (79, 12471), (80, 12480), (89, 12540), (90, 12552), (103, 12627), (115, 12678), (124, 12720), (127, 12741), (132, 12780), (143, 12858), (155, 12936), (159, 12960), (176, 13101), (190, 13194), (194, 13215), (195, 13224), (238, 13461), (243, 13485), (248, 13500), (257, 13533), (272, 13620), (288, 13707), (291, 13728), (301, 13812), (304, 13824), (308, 13845), (369, 14001), (379, 14082), (388, 14148), (391, 14169), (397, 14205), (404, 14256), (408, 14274), (413, 14313), (422, 14391), (442, 14478), (445, 14493), (451, 14535), (461, 14589), (493, 14829), (507, 14904), (520, 15015), (522, 15036), (523, 15057), (530, 15177), (540, 15351), (548, 15432), (549, 15441), (561, 15513), (568, 15543), (572, 15564), (587, 15684), (600, 15756), (602, 15774), (603, 15780),

Gene: Annihilator_16 Start: 11455, Stop: 15468, Start Num: 14

Candidate Starts for Annihilator_16:

(Start: 14 @11455 has 171 MA's), (32, 11656), (53, 11770), (63, 11812), (70, 11842), (90, 11977), (93, 11989), (95, 11998), (130, 12187), (132, 12205), (133, 12208), (135, 12229), (136, 12241), (147, 12313), (155, 12361), (173, 12493), (175, 12517), (186, 12598), (211, 12721), (222, 12805), (230, 12841), (238, 12886), (239, 12892), (264, 13000), (268, 13024), (272, 13045), (307, 13264), (320, 13414), (328, 13501), (347, 13609), (369, 13744), (384, 13855), (387, 13873), (390, 13903), (420, 14125), (426, 14149), (429, 14164), (433, 14185), (442, 14212), (447, 14239), (458, 14299), (466, 14389), (472, 14422), (484, 14485), (488, 14542), (492, 14575), (495, 14584), (542, 15088), (543, 15115), (546, 15145), (548, 15157), (549, 15166), (561, 15235), (577, 15316), (585, 15376), (588, 15394), (590, 15403),

Gene: Antsirabe_16 Start: 11833, Stop: 15810, Start Num: 15

Candidate Starts for Antsirabe_16:

(Start: 15 @11833 has 38 MA's), (25, 11926), (35, 12046), (45, 12109), (50, 12127), (64, 12190), (73, 12226), (82, 12298), (84, 12304), (88, 12331), (91, 12349), (98, 12394), (107, 12430), (111, 12445), (133, 12568), (137, 12610), (140, 12625), (145, 12661), (155, 12724), (158, 12745), (169, 12817), (172, 12835), (191, 12976), (197, 13018), (204, 13048), (205, 13051), (207, 13060), (209, 13069), (214, 13111), (226, 13183), (227, 13189), (231, 13204), (235, 13222), (236, 13225), (242, 13258), (250, 13285), (260, 13330), (272, 13393), (278, 13417), (280, 13429), (281, 13432), (298, 13561), (304, 13603), (305, 13606), (316, 13708), (320, 13768), (324, 13819), (336, 13903), (348, 13966), (356, 14023), (366, 14074), (368, 14092), (369, 14098), (375, 14149), (382, 14191), (392, 14287), (417, 14410), (419, 14428), (426, 14494), (429, 14509), (446, 14575), (456, 14629), (459, 14644), (464, 14725), (466, 14734), (484, 14827), (487, 14881), (488, 14884), (492, 14917), (506, 14992), (542, 15454), (543, 15481), (548, 15523), (558, 15610), (559, 15613), (563, 15631), (565, 15634), (585, 15718), (588, 15736),

Gene: Apocalypse_21 Start: 12053, Stop: 15886, Start Num: 14

Candidate Starts for Apocalypse_21:

(Start: 14 @12053 has 171 MA's), (23, 12122), (29, 12209), (57, 12386), (63, 12413), (79, 12497), (80, 12506), (90, 12578), (103, 12653), (122, 12737), (124, 12746), (127, 12767), (132, 12806), (143,

12884), (155, 12962), (159, 12986), (167, 13052), (176, 13127), (190, 13220), (192, 13229), (194, 13241), (195, 13250), (238, 13487), (248, 13526), (257, 13559), (272, 13646), (278, 13670), (291, 13754), (301, 13838), (304, 13850), (308, 13871), (369, 14027), (379, 14108), (383, 14132), (387, 14156), (388, 14174), (391, 14195), (397, 14231), (404, 14282), (413, 14339), (422, 14417), (424, 14426), (442, 14504), (445, 14519), (451, 14561), (461, 14615), (493, 14855), (507, 14930), (520, 15041), (532, 15260), (534, 15272), (548, 15455), (549, 15464), (561, 15536), (568, 15566), (572, 15587), (587, 15707), (600, 15779), (602, 15797), (603, 15803),

Gene: Applecrisp_19 Start: 12274, Stop: 16422, Start Num: 14

Candidate Starts for Applecrisp_19:

(Start: 14 @12274 has 171 MA's), (23, 12343), (37, 12505), (57, 12607), (59, 12613), (63, 12634), (89, 12787), (90, 12799), (103, 12874), (110, 12904), (124, 12967), (127, 12988), (132, 13027), (143, 13105), (155, 13183), (159, 13207), (167, 13273), (176, 13348), (190, 13441), (196, 13474), (208, 13522), (217, 13585), (224, 13639), (225, 13642), (229, 13660), (232, 13672), (242, 13729), (251, 13756), (257, 13780), (261, 13801), (264, 13822), (272, 13867), (296, 14041), (316, 14197), (325, 14317), (330, 14359), (331, 14365), (344, 14437), (348, 14455), (349, 14476), (369, 14587), (377, 14647), (382, 14680), (384, 14698), (387, 14716), (388, 14734), (390, 14746), (397, 14791), (404, 14842), (411, 14890), (422, 14968), (442, 15055), (444, 15061), (445, 15070), (454, 15127), (455, 15130), (463, 15205), (475, 15271), (493, 15406), (505, 15466), (507, 15481), (509, 15487), (541, 15937), (548, 16009), (549, 16018), (562, 16105), (587, 16258), (603, 16357), (606, 16384), (607, 16396),

Gene: Aroostook_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Aroostook_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Asayake_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Asayake_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Atiba_21 Start: 12042, Stop: 15878, Start Num: 14

Candidate Starts for Atiba_21:

(Start: 14 @12042 has 171 MA's), (23, 12111), (29, 12198), (57, 12375), (63, 12402), (78, 12474), (79, 12486), (80, 12495), (90, 12567), (103, 12642), (122, 12726), (124, 12735), (127, 12756), (132, 12795), (143, 12873), (155, 12951), (167, 13041), (176, 13116), (190, 13209), (192, 13218), (194, 13230), (195, 13239), (243, 13500), (248, 13515), (257, 13548), (272, 13635), (278, 13659), (291, 13743), (301, 13827), (304, 13839), (308, 13860), (369, 14016), (379, 14097), (387, 14145), (388,

14163), (391, 14184), (397, 14220), (404, 14271), (413, 14328), (422, 14406), (424, 14415), (442, 14493), (451, 14550), (461, 14604), (493, 14844), (507, 14919), (520, 15030), (532, 15249), (534, 15261), (548, 15447), (549, 15456), (561, 15528), (568, 15558), (572, 15579), (587, 15699), (600, 15771), (602, 15789), (603, 15795),

Gene: Avrafan_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Avrafan_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: AzulaCat_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for AzulaCat_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: BEEST_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for BEEST_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: BGlluviae_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for BGlluviae_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: BPs_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for BPs_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: BQuat_16 Start: 11455, Stop: 15468, Start Num: 14

Candidate Starts for BQuat_16:

(Start: 14 @11455 has 171 MA's), (32, 11656), (53, 11770), (63, 11812), (70, 11842), (90, 11977), (93, 11989), (95, 11998), (130, 12187), (132, 12205), (133, 12208), (135, 12229), (136, 12241), (147, 12313), (155, 12361), (173, 12493), (175, 12517), (186, 12598), (211, 12721), (222, 12805), (230, 12841), (238, 12886), (239, 12892), (264, 13000), (268, 13024), (272, 13045), (307, 13264), (320, 13414), (328, 13501), (347, 13609), (369, 13744), (384, 13855), (387, 13873), (390, 13903), (420, 14125), (426, 14149), (429, 14164), (433, 14185), (442, 14212), (447, 14239), (458, 14299), (466, 14389), (472, 14422), (484, 14485), (488, 14542), (492, 14575), (495, 14584), (542, 15088), (543, 15115), (546, 15145), (548, 15157), (549, 15166), (561, 15235), (577, 15316), (585, 15376), (588, 15394), (590, 15403),

Gene: BaghaKamala_21 Start: 12045, Stop: 15878, Start Num: 14

Candidate Starts for BaghaKamala_21:

(Start: 14 @12045 has 171 MA's), (23, 12114), (29, 12201), (37, 12276), (57, 12378), (63, 12405), (78, 12477), (79, 12489), (80, 12498), (90, 12570), (103, 12645), (122, 12729), (124, 12738), (127, 12759), (132, 12798), (136, 12834), (143, 12876), (155, 12954), (167, 13044), (176, 13119), (190, 13212), (192, 13221), (194, 13233), (195, 13242), (238, 13479), (248, 13518), (257, 13551), (272, 13638), (278, 13662), (291, 13746), (301, 13830), (304, 13842), (308, 13863), (369, 14019), (379, 14100), (387, 14148), (388, 14166), (391, 14187), (397, 14223), (404, 14274), (413, 14331), (422, 14409), (424, 14418), (442, 14496), (445, 14511), (451, 14553), (461, 14607), (493, 14847), (507, 14922), (520, 15033), (532, 15252), (534, 15264), (548, 15447), (549, 15456), (561, 15528), (568, 15558), (572, 15579), (587, 15699), (600, 15771), (602, 15789), (603, 15795),

Gene: BananenDer11_19 Start: 12197, Stop: 16303, Start Num: 13

Candidate Starts for BananenDer11_19:

(Start: 13 @12197 has 20 MA's), (24, 12290), (30, 12368), (31, 12392), (39, 12452), (59, 12536), (61, 12548), (80, 12650), (89, 12710), (90, 12722), (95, 12743), (103, 12797), (114, 12845), (124, 12890), (127, 12911), (143, 13028), (155, 13106), (159, 13130), (167, 13196), (176, 13271), (190, 13364), (195, 13394), (226, 13568), (228, 13577), (234, 13607), (238, 13631), (242, 13652), (259, 13712), (272, 13790), (274, 13799), (288, 13877), (296, 13943), (302, 13985), (304, 13994), (311, 14078), (316, 14099), (317, 14132), (323, 14198), (325, 14219), (332, 14273), (334, 14282), (338, 14300), (342, 14318), (343, 14327), (348, 14357), (353, 14393), (361, 14447), (368, 14483), (369, 14489), (371, 14507), (386, 14612), (392, 14678), (422, 14873), (428, 14903), (436, 14936), (447, 14987), (448, 15008), (452, 15023), (453, 15029), (463, 15113), (471, 15161), (480, 15200), (486, 15260), (491, 15293), (496, 15314), (499, 15338), (505, 15368), (516, 15434), (522, 15506), (540, 15821), (541, 15830), (542, 15833), (544, 15875), (548, 15902), (553, 15932), (561, 15983), (566, 16001), (577, 16067), (583, 16115), (587, 16139), (589, 16151), (604, 16232), (606, 16256), (611, 16295),

Gene: Barkley26_16 Start: 11464, Stop: 15480, Start Num: 14

Candidate Starts for Barkley26_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15100), (543, 15127), (546, 15157), (548, 15169), (549, 15178), (561, 15247), (577, 15328), (585, 15388), (588, 15406), (590, 15415),

Gene: BarrelRoll_21 Start: 12068, Stop: 15901, Start Num: 14

Candidate Starts for BarrelRoll_21:

(Start: 14 @12068 has 171 MA's), (23, 12137), (29, 12224), (37, 12299), (57, 12401), (63, 12428), (78, 12500), (79, 12512), (80, 12521), (90, 12593), (103, 12668), (122, 12752), (124, 12761), (127, 12782), (132, 12821), (136, 12857), (143, 12899), (155, 12977), (167, 13067), (176, 13142), (190, 13235), (192, 13244), (194, 13256), (195, 13265), (238, 13502), (248, 13541), (257, 13574), (272, 13661), (278, 13685), (291, 13769), (301, 13853), (304, 13865), (308, 13886), (369, 14042), (379, 14123), (387, 14171), (388, 14189), (391, 14210), (397, 14246), (404, 14297), (413, 14354), (422, 14432), (424, 14441), (442, 14519), (445, 14534), (451, 14576), (461, 14630), (493, 14870), (507, 14945), (520, 15056), (532, 15275), (534, 15287), (548, 15470), (549, 15479), (561, 15551), (568, 15581), (572, 15602), (587, 15722), (600, 15794), (602, 15812), (603, 15818),

Gene: Beezoo_21 Start: 12092, Stop: 15925, Start Num: 14

Candidate Starts for Beezoo_21:

(Start: 14 @12092 has 171 MA's), (23, 12161), (24, 12182), (29, 12248), (57, 12425), (63, 12452), (78, 12524), (79, 12536), (80, 12545), (90, 12617), (103, 12692), (122, 12776), (124, 12785), (127, 12806), (132, 12845), (143, 12923), (155, 13001), (167, 13091), (176, 13166), (190, 13259), (192, 13268), (194, 13280), (195, 13289), (238, 13526), (248, 13565), (257, 13598), (272, 13685), (278, 13709), (291, 13793), (301, 13877), (304, 13889), (305, 13892), (308, 13910), (369, 14066), (379, 14147), (387, 14195), (388, 14213), (391, 14234), (397, 14270), (404, 14321), (413, 14378), (422, 14456), (424, 14465), (442, 14543), (445, 14558), (451, 14600), (461, 14654), (493, 14894), (507, 14969), (520, 15080), (532, 15299), (534, 15311), (548, 15494), (549, 15503), (568, 15605), (572, 15626), (587, 15746), (600, 15818), (602, 15836), (603, 15842),

Gene: Bella96_21 Start: 12006, Stop: 15845, Start Num: 14

Candidate Starts for Bella96_21:

(Start: 14 @12006 has 171 MA's), (23, 12075), (29, 12162), (57, 12342), (63, 12369), (79, 12453), (80, 12462), (89, 12522), (90, 12534), (103, 12609), (113, 12651), (122, 12693), (124, 12702), (127, 12723), (132, 12762), (133, 12765), (143, 12840), (155, 12918), (176, 13083), (190, 13176), (194, 13197), (195, 13206), (238, 13443), (243, 13467), (248, 13482), (257, 13515), (272, 13602), (288, 13689), (291, 13710), (301, 13794), (304, 13806), (308, 13827), (369, 13983), (379, 14064), (388, 14130), (391, 14151), (397, 14187), (404, 14238), (408, 14256), (413, 14295), (422, 14373), (424, 14382), (442, 14460), (445, 14475), (451, 14517), (461, 14571), (493, 14811), (507, 14886), (520, 14997), (522, 15018), (523, 15039), (530, 15159), (540, 15333), (548, 15414), (549, 15423), (561, 15495), (568, 15525), (572, 15546), (587, 15666), (600, 15738), (602, 15756), (603, 15762),

Gene: Bern_21 Start: 12034, Stop: 15873, Start Num: 14

Candidate Starts for Bern_21:

(Start: 14 @12034 has 171 MA's), (23, 12103), (29, 12190), (57, 12370), (63, 12397), (79, 12481), (89, 12550), (90, 12562), (103, 12637), (115, 12688), (124, 12730), (127, 12751), (132, 12790), (143, 12868), (155, 12946), (176, 13111), (190, 13204), (194, 13225), (195, 13234), (238, 13471), (243, 13495), (248, 13510), (257, 13543), (272, 13630), (288, 13717), (291, 13738), (301, 13822), (304, 13834), (307, 13849), (308, 13855), (379, 14092), (387, 14140), (388, 14158), (391, 14179), (397,

14215), (400, 14233), (404, 14266), (422, 14401), (424, 14410), (442, 14488), (445, 14503), (451, 14545), (461, 14599), (493, 14839), (507, 14914), (520, 15025), (522, 15046), (523, 15067), (530, 15187), (540, 15361), (548, 15442), (549, 15451), (561, 15523), (568, 15553), (572, 15574), (587, 15694), (600, 15766), (602, 15784), (603, 15790),

Gene: Boglebops_17 Start: 11327, Stop: 15460, Start Num: 14

Candidate Starts for Boglebops_17:

(10, 11288), (Start: 14 @11327 has 171 MA's), (23, 11396), (29, 11483), (37, 11561), (59, 11669), (63, 11690), (71, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (132, 12083), (143, 12161), (155, 12239), (159, 12263), (190, 12497), (208, 12578), (215, 12638), (224, 12695), (233, 12731), (238, 12764), (243, 12788), (260, 12854), (262, 12863), (272, 12923), (291, 13031), (296, 13076), (316, 13232), (324, 13343), (325, 13352), (326, 13364), (334, 13415), (338, 13433), (343, 13460), (348, 13490), (362, 13583), (369, 13622), (391, 13790), (400, 13844), (404, 13877), (412, 13922), (422, 14003), (423, 14006), (442, 14090), (444, 14096), (445, 14105), (451, 14147), (460, 14183), (461, 14201), (463, 14240), (473, 14300), (493, 14441), (505, 14501), (507, 14516), (534, 14858), (548, 15047), (549, 15056), (559, 15119), (603, 15395),

Gene: Blizzard_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Blizzard_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Boiiii_21 Start: 12118, Stop: 15951, Start Num: 14

Candidate Starts for Boiiii_21:

(Start: 14 @12118 has 171 MA's), (23, 12187), (29, 12274), (37, 12349), (57, 12451), (63, 12478), (78, 12550), (79, 12562), (80, 12571), (90, 12643), (103, 12718), (122, 12802), (124, 12811), (127, 12832), (132, 12871), (136, 12907), (143, 12949), (155, 13027), (167, 13117), (176, 13192), (190, 13285), (192, 13294), (194, 13306), (195, 13315), (238, 13552), (248, 13591), (257, 13624), (272, 13711), (278, 13735), (291, 13819), (301, 13903), (304, 13915), (308, 13936), (369, 14092), (379, 14173), (387, 14221), (388, 14239), (391, 14260), (397, 14296), (404, 14347), (413, 14404), (422, 14482), (424, 14491), (442, 14569), (445, 14584), (451, 14626), (461, 14680), (493, 14920), (507, 14995), (520, 15106), (532, 15325), (534, 15337), (548, 15520), (549, 15529), (561, 15601), (568, 15631), (572, 15652), (587, 15772), (600, 15844), (602, 15862), (603, 15868),

Gene: BruceB_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for BruceB_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Bryler_20 Start: 11095, Stop: 15096, Start Num: 15

Candidate Starts for Bryler_20:

(Start: 15 @11095 has 38 MA's), (26, 11188), (33, 11293), (38, 11320), (42, 11347), (45, 11365), (50, 11383), (55, 11407), (56, 11413), (62, 11440), (64, 11446), (73, 11482), (76, 11491), (78, 11515), (88, 11587), (91, 11605), (92, 11608), (118, 11737), (137, 11854), (152, 11950), (158, 11989), (164, 12019), (172, 12079), (197, 12262), (198, 12268), (199, 12271), (210, 12325), (214, 12355), (223, 12415), (226, 12427), (227, 12433), (231, 12448), (236, 12469), (239, 12487), (270, 12625), (272, 12637), (277, 12658), (284, 12697), (303, 12751), (304, 12757), (319, 12919), (325, 12982), (338, 13063), (341, 13078), (348, 13120), (355, 13171), (358, 13192), (364, 13222), (366, 13228), (369, 13252), (375, 13303), (384, 13363), (391, 13420), (397, 13456), (400, 13474), (404, 13507), (422, 13648), (423, 13651), (442, 13735), (447, 13762), (461, 13846), (493, 14086), (507, 14161), (533, 14494), (540, 14596), (541, 14605), (548, 14677), (561, 14761), (568, 14791), (572, 14812), (587, 14929), (600, 15004), (605, 15043), (606, 15055),

Gene: CLED96_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for CLED96_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: CREW_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for CREW_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Cain_20 Start: 11083, Stop: 15084, Start Num: 15

Candidate Starts for Cain_20:

(Start: 15 @11083 has 38 MA's), (26, 11176), (33, 11281), (38, 11308), (42, 11335), (45, 11353), (50, 11371), (55, 11395), (56, 11401), (62, 11428), (64, 11434), (73, 11470), (76, 11479), (78, 11503), (88, 11575), (91, 11593), (92, 11596), (118, 11725), (137, 11842), (152, 11938), (158, 11977), (164, 12007), (172, 12067), (197, 12250), (198, 12256), (199, 12259), (210, 12313), (214, 12343), (223, 12403), (226, 12415), (227, 12421), (231, 12436), (236, 12457), (239, 12475), (270, 12613), (272, 12625), (277, 12646), (284, 12685), (303, 12739), (304, 12745), (319, 12907), (325, 12970), (338, 13051), (341, 13066), (348, 13108), (355, 13159), (358, 13180), (364, 13210), (366, 13216), (369, 13240), (375, 13291), (384, 13351), (391, 13408), (397, 13444), (400, 13462), (404, 13495), (422, 13636), (423, 13639), (442, 13723), (447, 13750), (461, 13834), (493, 14074), (507, 14149), (533, 14482), (540, 14584), (541, 14593), (548, 14665), (561, 14749), (568, 14779), (572, 14800), (587, 14917), (600, 14992), (605, 15031), (606, 15043),

Gene: CallaLilly_21 Start: 12039, Stop: 15872, Start Num: 14

Candidate Starts for CallaLilly_21:

(Start: 14 @12039 has 171 MA's), (23, 12108), (24, 12129), (29, 12195), (57, 12372), (63, 12399), (78, 12471), (79, 12483), (80, 12492), (90, 12564), (103, 12639), (122, 12723), (124, 12732), (127, 12753), (132, 12792), (136, 12828), (143, 12870), (155, 12948), (167, 13038), (176, 13113), (190, 13206), (192, 13215), (194, 13227), (195, 13236), (238, 13473), (248, 13512), (257, 13545), (272, 13632), (278, 13656), (291, 13740), (301, 13824), (304, 13836), (308, 13857), (369, 14013), (379, 14094), (387, 14142), (388, 14160), (391, 14181), (397, 14217), (404, 14268), (413, 14325), (422, 14403), (424, 14412), (442, 14490), (445, 14505), (451, 14547), (461, 14601), (493, 14841), (507, 14916), (520, 15027), (532, 15246), (534, 15258), (548, 15441), (549, 15450), (561, 15522), (568, 15552), (572, 15573), (587, 15693), (600, 15765), (602, 15783), (603, 15789),

Gene: Cambiare_17 Start: 12153, Stop: 16196, Start Num: 15

Candidate Starts for Cambiare_17:

(Start: 15 @12153 has 38 MA's), (25, 12246), (28, 12276), (39, 12423), (59, 12507), (69, 12555), (90, 12693), (95, 12714), (103, 12768), (124, 12861), (127, 12882), (130, 12903), (132, 12921), (135, 12945), (136, 12957), (147, 13029), (150, 13044), (155, 13077), (173, 13209), (175, 13233), (178, 13254), (184, 13287), (186, 13314), (194, 13356), (202, 13404), (224, 13542), (225, 13545), (234, 13587), (250, 13656), (251, 13659), (265, 13728), (272, 13770), (286, 13848), (302, 13965), (304, 13974), (307, 13989), (313, 14070), (316, 14079), (320, 14139), (332, 14253), (343, 14307), (347, 14334), (355, 14388), (357, 14397), (364, 14439), (368, 14463), (369, 14469), (373, 14499), (375, 14520), (378, 14538), (385, 14583), (416, 14790), (418, 14805), (421, 14853), (426, 14874), (429, 14889), (435, 14913), (445, 14952), (446, 14955), (447, 14964), (451, 14991), (454, 15006), (462, 15057), (463, 15084), (483, 15189), (493, 15285), (507, 15360), (523, 15504), (535, 15705), (542, 15789), (543, 15816), (546, 15846), (548, 15858), (577, 16044), (588, 16122),

Gene: Camri_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Camri_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Capricorn_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Capricorn_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: CaseJules_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for CaseJules_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830),

(132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: CassieYates_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for CassieYates_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Cedasite_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Cedasite_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Chance64_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Chance64_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Chavito_21 Start: 11138, Stop: 15292, Start Num: 15

Candidate Starts for Chavito_21:

(9, 11090), (Start: 15 @11138 has 38 MA's), (26, 11231), (42, 11390), (47, 11417), (67, 11507), (68, 11510), (82, 11597), (99, 11705), (100, 11708), (116, 11774), (133, 11876), (137, 11918), (140, 11933), (141, 11942), (145, 11969), (151, 11999), (155, 12032), (163, 12074), (172, 12143), (197, 12329), (198, 12335), (207, 12371), (209, 12380), (210, 12392), (212, 12404), (214, 12422), (223, 12482), (226, 12494), (227, 12500), (231, 12515), (235, 12533), (236, 12536), (239, 12554), (242, 12569), (253, 12608), (266, 12665), (267, 12674), (272, 12704), (277, 12725), (283, 12755), (292, 12824), (295, 12845), (298, 12872), (301, 12902), (304, 12914), (315, 13016), (321, 13094), (325,

13139), (327, 13163), (337, 13217), (338, 13220), (341, 13235), (342, 13238), (348, 13277), (351, 13304), (355, 13328), (356, 13334), (377, 13469), (378, 13478), (383, 13514), (384, 13520), (387, 13538), (389, 13565), (391, 13577), (400, 13631), (404, 13664), (414, 13724), (422, 13805), (423, 13808), (442, 13892), (445, 13907), (463, 14042), (475, 14108), (493, 14243), (526, 14516), (529, 14591), (548, 14852), (549, 14861), (556, 14924), (576, 15047), (587, 15119), (591, 15140), (600, 15191), (602, 15209), (603, 15215), (607, 15254),

Gene: CheetoDust_21 Start: 12093, Stop: 15926, Start Num: 14

Candidate Starts for CheetoDust_21:

(Start: 14 @12093 has 171 MA's), (23, 12162), (29, 12249), (57, 12426), (63, 12453), (78, 12525), (79, 12537), (80, 12546), (90, 12618), (103, 12693), (122, 12777), (124, 12786), (127, 12807), (132, 12846), (143, 12924), (155, 13002), (159, 13026), (167, 13092), (176, 13167), (190, 13260), (192, 13269), (194, 13281), (195, 13290), (238, 13527), (248, 13566), (257, 13599), (272, 13686), (278, 13710), (291, 13794), (301, 13878), (304, 13890), (308, 13911), (369, 14067), (379, 14148), (383, 14172), (387, 14196), (388, 14214), (391, 14235), (397, 14271), (404, 14322), (413, 14379), (422, 14457), (424, 14466), (442, 14544), (445, 14559), (451, 14601), (461, 14655), (493, 14895), (507, 14970), (520, 15081), (532, 15300), (534, 15312), (548, 15495), (549, 15504), (561, 15576), (568, 15606), (572, 15627), (587, 15747), (600, 15819), (602, 15837), (603, 15843),

Gene: Cherrybomb426_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Cherrybomb426_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Chris_20 Start: 11071, Stop: 15138, Start Num: 15

Candidate Starts for Chris_20:

(Start: 15 @11071 has 38 MA's), (26, 11164), (38, 11296), (42, 11323), (43, 11332), (44, 11338), (66, 11434), (88, 11563), (91, 11581), (92, 11584), (96, 11611), (100, 11641), (118, 11722), (125, 11752), (128, 11776), (137, 11839), (140, 11854), (154, 11950), (155, 11953), (163, 11995), (172, 12064), (197, 12247), (199, 12256), (209, 12298), (210, 12310), (223, 12400), (226, 12412), (227, 12418), (231, 12433), (235, 12451), (236, 12454), (241, 12484), (242, 12487), (270, 12610), (272, 12622), (273, 12628), (277, 12643), (279, 12649), (302, 12733), (309, 12802), (325, 12967), (331, 13015), (334, 13030), (348, 13105), (355, 13156), (358, 13177), (366, 13213), (369, 13237), (373, 13267), (388, 13384), (390, 13396), (391, 13405), (400, 13459), (404, 13492), (413, 13549), (422, 13627), (423, 13630), (442, 13714), (447, 13741), (455, 13789), (461, 13825), (463, 13864), (483, 13969), (493, 14065), (501, 14107), (507, 14140), (532, 14482), (548, 14680), (562, 14794), (587, 14968), (600, 15052), (603, 15073),

Gene: Clipper_21 Start: 12093, Stop: 15926, Start Num: 14

Candidate Starts for Clipper_21:

(Start: 14 @12093 has 171 MA's), (23, 12162), (29, 12249), (57, 12426), (63, 12453), (79, 12537), (80, 12546), (90, 12618), (103, 12693), (122, 12777), (124, 12786), (127, 12807), (132, 12846), (143, 12924), (155, 13002), (167, 13092), (176, 13167), (190, 13260), (192, 13269), (194, 13281), (195, 13290), (238, 13527), (248, 13566), (257, 13599), (272, 13686), (278, 13710), (291, 13794), (301, 13878), (304, 13890), (308, 13911), (369, 14067), (379, 14148), (383, 14172), (387, 14196), (388, 14214), (391, 14235), (397, 14271), (404, 14322), (413, 14379), (422, 14457), (424, 14466), (442,

14544), (445, 14559), (451, 14601), (461, 14655), (493, 14895), (507, 14970), (520, 15081), (532, 15300), (534, 15312), (548, 15495), (549, 15504), (561, 15576), (568, 15606), (572, 15627), (587, 15747), (600, 15819), (602, 15837), (603, 15843),

Gene: Cloudyecho_16 Start: 11718, Stop: 15656, Start Num: 15

Candidate Starts for Cloudyecho_16:

(Start: 15 @11718 has 38 MA's), (25, 11811), (26, 11814), (32, 11919), (33, 11922), (36, 11937), (43, 11985), (50, 12012), (56, 12042), (62, 12069), (84, 12189), (86, 12204), (88, 12216), (91, 12234), (98, 12279), (117, 12357), (118, 12366), (133, 12453), (137, 12495), (140, 12510), (144, 12540), (155, 12609), (157, 12621), (172, 12720), (185, 12834), (191, 12861), (197, 12903), (204, 12933), (209, 12954), (214, 12996), (226, 13068), (227, 13074), (231, 13089), (235, 13107), (236, 13110), (250, 13170), (260, 13215), (266, 13239), (268, 13257), (272, 13278), (278, 13302), (280, 13314), (281, 13317), (289, 13374), (298, 13446), (304, 13488), (315, 13590), (318, 13647), (332, 13767), (336, 13788), (356, 13908), (366, 13959), (375, 14034), (382, 14076), (389, 14139), (392, 14172), (417, 14295), (426, 14379), (429, 14394), (435, 14418), (446, 14460), (447, 14469), (456, 14514), (459, 14529), (464, 14610), (466, 14619), (484, 14712), (487, 14766), (488, 14769), (492, 14802), (542, 15270), (543, 15297), (545, 15324), (548, 15339), (549, 15348), (585, 15564), (588, 15582), (595, 15621),

Gene: Coleslaw_16 Start: 11455, Stop: 15468, Start Num: 14

Candidate Starts for Coleslaw_16:

(Start: 14 @11455 has 171 MA's), (32, 11656), (53, 11770), (63, 11812), (70, 11842), (90, 11977), (93, 11989), (95, 11998), (130, 12187), (132, 12205), (133, 12208), (135, 12229), (136, 12241), (147, 12313), (155, 12361), (173, 12493), (175, 12517), (186, 12598), (211, 12721), (222, 12805), (230, 12841), (238, 12886), (239, 12892), (264, 13000), (268, 13024), (272, 13045), (307, 13264), (320, 13414), (328, 13501), (347, 13609), (369, 13744), (384, 13855), (387, 13873), (390, 13903), (420, 14125), (426, 14149), (429, 14164), (433, 14185), (442, 14212), (447, 14239), (458, 14299), (466, 14389), (472, 14422), (484, 14485), (488, 14542), (492, 14575), (495, 14584), (542, 15088), (543, 15115), (546, 15145), (548, 15157), (549, 15166), (561, 15235), (577, 15316), (585, 15376), (588, 15394), (590, 15403),

Gene: Collard_19 Start: 12197, Stop: 16303, Start Num: 13

Candidate Starts for Collard_19:

(Start: 13 @12197 has 20 MA's), (24, 12290), (30, 12368), (31, 12392), (39, 12452), (59, 12536), (61, 12548), (80, 12650), (89, 12710), (90, 12722), (95, 12743), (103, 12797), (114, 12845), (124, 12890), (127, 12911), (143, 13028), (155, 13106), (159, 13130), (167, 13196), (176, 13271), (190, 13364), (195, 13394), (226, 13568), (228, 13577), (234, 13607), (238, 13631), (242, 13652), (259, 13712), (272, 13790), (274, 13799), (288, 13877), (296, 13943), (302, 13985), (304, 13994), (311, 14078), (316, 14099), (317, 14132), (323, 14198), (325, 14219), (332, 14273), (334, 14282), (338, 14300), (342, 14318), (343, 14327), (348, 14357), (353, 14393), (361, 14447), (368, 14483), (369, 14489), (371, 14507), (386, 14612), (392, 14678), (422, 14873), (428, 14903), (436, 14936), (447, 14987), (448, 15008), (452, 15023), (453, 15029), (463, 15113), (471, 15161), (480, 15200), (486, 15260), (491, 15293), (496, 15314), (499, 15338), (505, 15368), (516, 15434), (522, 15506), (540, 15821), (541, 15830), (542, 15833), (544, 15875), (548, 15902), (553, 15932), (561, 15983), (566, 16001), (577, 16067), (583, 16115), (587, 16139), (589, 16151), (604, 16232), (606, 16256), (611, 16295),

Gene: Crespo_16 Start: 11465, Stop: 15478, Start Num: 14

Candidate Starts for Crespo_16:

(Start: 14 @11465 has 171 MA's), (32, 11666), (53, 11780), (63, 11822), (70, 11852), (90, 11987), (93, 11999), (95, 12008), (130, 12197), (132, 12215), (133, 12218), (135, 12239), (136, 12251), (147, 12323), (155, 12371), (173, 12503), (175, 12527), (186, 12608), (211, 12731), (222, 12815), (230, 12851), (238, 12896), (239, 12902), (264, 13010), (268, 13034), (272, 13055), (307, 13274), (320, 13424), (328, 13511), (347, 13619), (369, 13754), (384, 13865), (387, 13883), (390, 13913), (420,

14135), (426, 14159), (429, 14174), (433, 14195), (442, 14222), (447, 14249), (458, 14309), (466, 14399), (472, 14432), (484, 14495), (488, 14552), (492, 14585), (495, 14594), (542, 15098), (543, 15125), (546, 15155), (548, 15167), (549, 15176), (561, 15245), (577, 15326), (585, 15386), (588, 15404), (590, 15413),

Gene: CrimD_21 Start: 12051, Stop: 15887, Start Num: 14

Candidate Starts for CrimD_21:

(Start: 14 @12051 has 171 MA's), (23, 12120), (29, 12207), (57, 12387), (63, 12414), (79, 12498), (80, 12507), (89, 12567), (90, 12579), (103, 12654), (113, 12696), (122, 12738), (124, 12747), (127, 12768), (132, 12807), (143, 12885), (155, 12963), (176, 13128), (190, 13221), (192, 13230), (194, 13242), (195, 13251), (238, 13488), (243, 13512), (248, 13527), (257, 13560), (272, 13647), (278, 13671), (291, 13755), (301, 13839), (304, 13851), (308, 13872), (315, 13953), (367, 14010), (369, 14028), (379, 14109), (387, 14157), (388, 14175), (390, 14187), (391, 14196), (397, 14232), (404, 14283), (413, 14340), (422, 14418), (442, 14505), (445, 14520), (451, 14562), (461, 14616), (493, 14856), (507, 14931), (520, 15042), (532, 15261), (534, 15273), (540, 15375), (548, 15456), (549, 15465), (561, 15537), (568, 15567), (572, 15588), (587, 15708), (600, 15780), (602, 15798), (603, 15804),

Gene: Curiosium_22 Start: 11510, Stop: 15637, Start Num: 15

Candidate Starts for Curiosium_22:

(Start: 15 @11510 has 38 MA's), (20, 11537), (26, 11603), (38, 11735), (41, 11759), (47, 11789), (52, 11810), (55, 11822), (67, 11879), (68, 11882), (82, 11969), (88, 12002), (91, 12020), (92, 12023), (98, 12065), (109, 12110), (133, 12239), (137, 12281), (140, 12296), (141, 12305), (145, 12332), (155, 12395), (162, 12425), (172, 12506), (177, 12557), (190, 12644), (197, 12689), (207, 12731), (208, 12734), (209, 12740), (214, 12782), (223, 12842), (226, 12854), (227, 12860), (231, 12875), (235, 12893), (236, 12896), (239, 12914), (242, 12929), (258, 12989), (262, 13010), (266, 13025), (272, 13064), (276, 13082), (277, 13085), (301, 13262), (304, 13274), (306, 13283), (309, 13334), (315, 13376), (325, 13499), (327, 13523), (342, 13598), (351, 13664), (366, 13745), (373, 13799), (375, 13820), (378, 13838), (384, 13880), (387, 13898), (389, 13925), (391, 13937), (397, 13973), (400, 13991), (405, 14036), (422, 14165), (423, 14168), (442, 14252), (445, 14267), (450, 14306), (451, 14309), (461, 14363), (463, 14402), (475, 14468), (493, 14603), (514, 14729), (536, 15044), (540, 15125), (541, 15134), (548, 15206), (587, 15458), (600, 15530), (603, 15554), (606, 15581),

Gene: DMoney_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for DMoney_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: DNAIII_0016 Start: 11473, Stop: 15486, Start Num: 14

Candidate Starts for DNAIII_0016:

(Start: 14 @11473 has 171 MA's), (32, 11674), (53, 11788), (63, 11830), (70, 11860), (90, 11995), (93, 12007), (95, 12016), (130, 12205), (132, 12223), (133, 12226), (135, 12247), (136, 12259), (147, 12331), (155, 12379), (173, 12511), (175, 12535), (186, 12616), (211, 12739), (222, 12823), (230, 12859), (238, 12904), (239, 12910), (264, 13018), (268, 13042), (272, 13063), (307, 13282), (320, 13432), (328, 13519), (347, 13627), (369, 13762), (384, 13873), (387, 13891), (390, 13921), (420, 14143), (426, 14167), (429, 14182), (433, 14203), (442, 14230), (447, 14257), (458, 14317), (466,

14407), (472, 14440), (484, 14503), (488, 14560), (492, 14593), (495, 14602), (542, 15106), (543, 15133), (546, 15163), (548, 15175), (549, 15184), (561, 15253), (577, 15334), (585, 15394), (588, 15412), (590, 15421),

Gene: Dadosky_19 Start: 12113, Stop: 16225, Start Num: 13

Candidate Starts for Dadosky_19:

(Start: 13 @12113 has 20 MA's), (24, 12206), (30, 12284), (31, 12308), (39, 12368), (59, 12452), (80, 12566), (89, 12626), (90, 12638), (95, 12659), (103, 12713), (114, 12761), (124, 12806), (127, 12827), (143, 12944), (155, 13022), (159, 13046), (165, 13088), (167, 13112), (176, 13187), (190, 13280), (195, 13310), (226, 13484), (234, 13523), (238, 13547), (242, 13568), (259, 13628), (272, 13706), (288, 13793), (296, 13859), (302, 13901), (304, 13910), (311, 13994), (316, 14015), (317, 14048), (323, 14114), (325, 14135), (332, 14189), (334, 14198), (338, 14216), (343, 14243), (348, 14273), (353, 14309), (368, 14399), (369, 14405), (371, 14423), (386, 14528), (392, 14594), (422, 14789), (428, 14819), (436, 14852), (447, 14903), (448, 14924), (452, 14939), (453, 14945), (463, 15029), (471, 15077), (480, 15116), (486, 15176), (491, 15209), (496, 15230), (499, 15254), (505, 15284), (516, 15350), (522, 15422), (540, 15737), (541, 15746), (542, 15749), (543, 15776), (544, 15791), (546, 15806), (548, 15818), (553, 15848), (561, 15902), (566, 15920), (577, 15989), (583, 16037), (587, 16061), (589, 16073), (591, 16082), (604, 16154), (606, 16178), (611, 16217),

Gene: Dalmuri_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Dalmuri_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Darionha_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Darionha_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: DartGoblin_21 Start: 12003, Stop: 15842, Start Num: 14

Candidate Starts for DartGoblin_21:

(Start: 14 @12003 has 171 MA's), (23, 12072), (29, 12159), (57, 12339), (63, 12366), (79, 12450), (80, 12459), (89, 12519), (90, 12531), (103, 12606), (113, 12648), (122, 12690), (124, 12699), (127, 12720), (132, 12759), (133, 12762), (143, 12837), (155, 12915), (176, 13080), (190, 13173), (194, 13194), (195, 13203), (238, 13440), (243, 13464), (248, 13479), (257, 13512), (272, 13599), (288, 13686), (291, 13707), (301, 13791), (304, 13803), (308, 13824), (369, 13980), (379, 14061), (388, 14127), (391, 14148), (397, 14184), (404, 14235), (408, 14253), (413, 14292), (422, 14370), (424, 14379), (442, 14457), (445, 14472), (451, 14514), (461, 14568), (493, 14808), (507, 14883), (520, 14994), (522, 15015), (523, 15036), (530, 15156), (540, 15330), (548, 15411), (549, 15420), (561,

15492), (568, 15522), (572, 15543), (587, 15663), (600, 15735), (602, 15753), (603, 15759),

Gene: DarthP_20 Start: 12196, Stop: 16335, Start Num: 14

Candidate Starts for DarthP_20:

(9, 12151), (Start: 14 @12196 has 171 MA's), (23, 12265), (29, 12352), (37, 12427), (57, 12529), (59, 12535), (63, 12556), (71, 12589), (75, 12601), (79, 12640), (80, 12649), (89, 12709), (90, 12721), (95, 12742), (103, 12796), (110, 12826), (124, 12889), (127, 12910), (132, 12949), (143, 13027), (155, 13105), (159, 13129), (182, 13303), (186, 13342), (187, 13351), (188, 13354), (194, 13384), (217, 13507), (220, 13522), (224, 13561), (234, 13606), (238, 13630), (263, 13732), (264, 13744), (266, 13750), (272, 13789), (290, 13915), (293, 13930), (297, 13966), (299, 13978), (306, 14023), (316, 14119), (342, 14338), (348, 14377), (349, 14398), (366, 14485), (369, 14509), (372, 14536), (373, 14539), (377, 14569), (384, 14620), (388, 14656), (404, 14764), (422, 14899), (423, 14902), (438, 14968), (440, 14974), (447, 15013), (457, 15085), (459, 15091), (461, 15112), (469, 15196), (476, 15226), (478, 15247), (481, 15259), (489, 15340), (494, 15373), (497, 15382), (498, 15388), (505, 15430), (509, 15448), (512, 15481), (513, 15487), (521, 15532), (532, 15742), (540, 15841), (541, 15850), (542, 15853), (548, 15922), (572, 16057), (580, 16126), (587, 16174), (603, 16270), (607, 16309),

Gene: Dartin_21 Start: 11128, Stop: 15282, Start Num: 15

Candidate Starts for Dartin_21:

(9, 11086), (Start: 15 @11128 has 38 MA's), (26, 11221), (42, 11380), (47, 11407), (67, 11497), (68, 11500), (82, 11587), (99, 11695), (116, 11764), (119, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (145, 11959), (155, 12022), (163, 12064), (172, 12133), (179, 12196), (180, 12205), (197, 12319), (198, 12325), (207, 12361), (209, 12370), (210, 12382), (212, 12394), (214, 12412), (223, 12472), (226, 12484), (227, 12490), (231, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (253, 12598), (266, 12655), (267, 12664), (272, 12694), (277, 12715), (283, 12745), (287, 12778), (298, 12862), (301, 12892), (304, 12904), (315, 13006), (321, 13084), (325, 13129), (327, 13153), (337, 13207), (338, 13210), (341, 13225), (348, 13267), (351, 13294), (353, 13303), (355, 13318), (356, 13324), (357, 13327), (378, 13468), (383, 13504), (384, 13510), (387, 13528), (389, 13555), (391, 13567), (400, 13621), (404, 13654), (414, 13714), (422, 13795), (423, 13798), (442, 13882), (445, 13897), (463, 14032), (475, 14098), (493, 14233), (530, 14584), (548, 14839), (549, 14848), (556, 14914), (587, 15109), (591, 15130), (600, 15181), (602, 15199), (603, 15205), (607, 15244),

Gene: Deby_21 Start: 12050, Stop: 15883, Start Num: 14

Candidate Starts for Deby_21:

(Start: 14 @12050 has 171 MA's), (23, 12119), (29, 12206), (57, 12383), (63, 12410), (79, 12494), (80, 12503), (90, 12575), (103, 12650), (122, 12734), (124, 12743), (127, 12764), (132, 12803), (143, 12881), (155, 12959), (167, 13049), (176, 13124), (190, 13217), (194, 13238), (195, 13247), (238, 13484), (248, 13523), (257, 13556), (272, 13643), (278, 13667), (291, 13751), (301, 13835), (304, 13847), (308, 13868), (369, 14024), (379, 14105), (387, 14153), (388, 14171), (391, 14192), (397, 14228), (404, 14279), (413, 14336), (422, 14414), (424, 14423), (442, 14501), (445, 14516), (451, 14558), (461, 14612), (493, 14852), (507, 14927), (520, 15038), (532, 15257), (534, 15269), (548, 15452), (549, 15461), (568, 15563), (572, 15584), (587, 15704), (600, 15776), (602, 15794), (603, 15800),

Gene: Devera_21 Start: 12075, Stop: 15929, Start Num: 14

Candidate Starts for Devera_21:

(Start: 14 @12075 has 171 MA's), (23, 12144), (29, 12231), (57, 12411), (63, 12438), (79, 12522), (80, 12531), (89, 12591), (90, 12603), (103, 12678), (113, 12720), (122, 12762), (124, 12771), (127, 12792), (132, 12831), (143, 12909), (149, 12951), (155, 12987), (176, 13152), (190, 13245), (194, 13266), (195, 13275), (243, 13557), (248, 13572), (257, 13605), (272, 13692), (291, 13800), (301, 13884), (304, 13896), (308, 13917), (369, 14073), (379, 14154), (387, 14202), (388, 14220), (391,

14241), (397, 14277), (404, 14328), (413, 14385), (422, 14463), (424, 14472), (442, 14550), (445, 14565), (451, 14607), (461, 14661), (477, 14778), (493, 14901), (507, 14976), (523, 15129), (532, 15306), (540, 15420), (548, 15501), (549, 15510), (561, 15582), (568, 15612), (572, 15633), (587, 15750), (600, 15822), (603, 15846),

Gene: DingDing_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for DingDing_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Dole_21 Start: 12077, Stop: 15931, Start Num: 14

Candidate Starts for Dole_21:

(Start: 14 @12077 has 171 MA's), (23, 12146), (29, 12233), (57, 12413), (63, 12440), (79, 12524), (80, 12533), (89, 12593), (90, 12605), (103, 12680), (113, 12722), (122, 12764), (124, 12773), (127, 12794), (132, 12833), (143, 12911), (149, 12953), (155, 12989), (176, 13154), (190, 13247), (194, 13268), (195, 13277), (243, 13559), (248, 13574), (257, 13607), (272, 13694), (291, 13802), (301, 13886), (304, 13898), (308, 13919), (369, 14075), (379, 14156), (387, 14204), (388, 14222), (391, 14243), (397, 14279), (404, 14330), (413, 14387), (422, 14465), (424, 14474), (442, 14552), (445, 14567), (451, 14609), (461, 14663), (477, 14780), (493, 14903), (507, 14978), (523, 15131), (532, 15308), (540, 15422), (548, 15503), (549, 15512), (561, 15584), (568, 15614), (572, 15635), (587, 15752), (600, 15824), (603, 15848),

Gene: DoubleChamp_19 Start: 12197, Stop: 16303, Start Num: 13

Candidate Starts for DoubleChamp_19:

(Start: 13 @12197 has 20 MA's), (24, 12290), (30, 12368), (31, 12392), (39, 12452), (59, 12536), (61, 12548), (80, 12650), (89, 12710), (90, 12722), (95, 12743), (103, 12797), (114, 12845), (124, 12890), (127, 12911), (143, 13028), (155, 13106), (159, 13130), (167, 13196), (176, 13271), (190, 13364), (195, 13394), (226, 13568), (228, 13577), (234, 13607), (238, 13631), (242, 13652), (259, 13712), (272, 13790), (274, 13799), (288, 13877), (296, 13943), (302, 13985), (304, 13994), (311, 14078), (316, 14099), (317, 14132), (323, 14198), (325, 14219), (332, 14273), (334, 14282), (338, 14300), (342, 14318), (343, 14327), (348, 14357), (353, 14393), (361, 14447), (368, 14483), (369, 14489), (371, 14507), (386, 14612), (392, 14678), (422, 14873), (428, 14903), (436, 14936), (447, 14987), (448, 15008), (452, 15023), (453, 15029), (463, 15113), (471, 15161), (480, 15200), (486, 15260), (491, 15293), (496, 15314), (499, 15338), (505, 15368), (516, 15434), (522, 15506), (540, 15821), (541, 15830), (542, 15833), (544, 15875), (548, 15902), (553, 15932), (561, 15983), (566, 16001), (577, 16067), (583, 16115), (587, 16139), (589, 16151), (604, 16232), (606, 16256), (611, 16295),

Gene: DrHayes_21 Start: 12024, Stop: 15863, Start Num: 14

Candidate Starts for DrHayes_21:

(Start: 14 @12024 has 171 MA's), (23, 12093), (29, 12180), (57, 12360), (63, 12387), (79, 12471), (80, 12480), (89, 12540), (90, 12552), (103, 12627), (115, 12678), (124, 12720), (127, 12741), (132, 12780), (143, 12858), (155, 12936), (159, 12960), (176, 13101), (190, 13194), (194, 13215), (195, 13224), (238, 13461), (243, 13485), (248, 13500), (257, 13533), (272, 13620), (288, 13707), (291, 13728), (301, 13812), (304, 13824), (308, 13845), (369, 14001), (379, 14082), (388, 14148), (391, 14169), (397, 14205), (404, 14256), (408, 14274), (413, 14313), (422, 14391), (442, 14478), (445, 14493), (451, 14535), (461, 14589), (493, 14829), (507, 14904), (520, 15015), (522, 15036), (523,

15057), (530, 15177), (540, 15351), (548, 15432), (549, 15441), (561, 15513), (568, 15543), (572, 15564), (587, 15684), (600, 15756), (602, 15774), (603, 15780),

Gene: Durfee_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Durfee_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: ECartman_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for ECartman_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Edugator_18 Start: 12113, Stop: 16225, Start Num: 13

Candidate Starts for Edugator_18:

(Start: 11 @12092 has 1 MA's), (Start: 13 @12113 has 20 MA's), (24, 12206), (30, 12284), (31, 12308), (39, 12368), (59, 12452), (80, 12566), (89, 12626), (90, 12638), (95, 12659), (103, 12713), (114, 12761), (124, 12806), (127, 12827), (143, 12944), (155, 13022), (159, 13046), (165, 13088), (167, 13112), (176, 13187), (190, 13280), (195, 13310), (226, 13484), (234, 13523), (238, 13547), (242, 13568), (259, 13628), (272, 13706), (288, 13793), (296, 13859), (302, 13901), (304, 13910), (311, 13994), (316, 14015), (317, 14048), (323, 14114), (325, 14135), (332, 14189), (334, 14198), (338, 14216), (343, 14243), (348, 14273), (353, 14309), (368, 14399), (369, 14405), (371, 14423), (386, 14528), (392, 14594), (422, 14789), (428, 14819), (436, 14852), (447, 14903), (448, 14924), (452, 14939), (453, 14945), (463, 15029), (471, 15077), (480, 15116), (486, 15176), (491, 15209), (496, 15230), (499, 15254), (505, 15284), (516, 15350), (522, 15422), (540, 15737), (541, 15746), (542, 15749), (543, 15776), (544, 15791), (546, 15806), (548, 15818), (553, 15848), (561, 15902), (566, 15920), (577, 15989), (583, 16037), (587, 16061), (589, 16073), (591, 16082), (604, 16154), (606, 16178), (611, 16217),

Gene: Efra2_21 Start: 11000, Stop: 15127, Start Num: 15

Candidate Starts for Efra2_21:

(9, 10952), (Start: 15 @11000 has 38 MA's), (26, 11093), (38, 11225), (41, 11249), (47, 11279), (52, 11300), (55, 11312), (68, 11372), (82, 11459), (88, 11492), (91, 11510), (92, 11513), (105, 11585), (133, 11729), (137, 11771), (140, 11786), (145, 11822), (156, 11894), (172, 11996), (197, 12179), (203, 12206), (208, 12224), (209, 12230), (214, 12272), (226, 12344), (227, 12350), (231, 12365), (236, 12386), (239, 12404), (242, 12419), (255, 12467), (262, 12500), (266, 12515), (272, 12554), (277, 12575), (283, 12605), (306, 12773), (309, 12824), (325, 12989), (327, 13013), (338, 13070), (346, 13121), (351, 13154), (353, 13163), (366, 13235), (375, 13310), (378, 13328), (384, 13370), (387, 13388), (389, 13415), (391, 13427), (409, 13556), (414, 13574), (422, 13655), (423, 13658),

(442, 13742), (450, 13796), (451, 13799), (463, 13892), (475, 13958), (493, 14093), (514, 14219), (540, 14615), (541, 14624), (548, 14696), (561, 14780), (568, 14810), (571, 14831), (587, 14948), (600, 15020), (603, 15044), (607, 15083),

Gene: Ekdilam_18 Start: 11907, Stop: 16097, Start Num: 14

Candidate Starts for Ekdilam_18:

(9, 11862), (Start: 14 @11907 has 171 MA's), (23, 11976), (29, 12063), (37, 12138), (57, 12240), (63, 12267), (71, 12300), (75, 12312), (79, 12351), (89, 12420), (90, 12432), (95, 12453), (103, 12507), (108, 12531), (110, 12537), (124, 12600), (127, 12621), (132, 12660), (135, 12684), (143, 12738), (155, 12816), (159, 12840), (169, 12915), (182, 13014), (186, 13053), (188, 13065), (194, 13095), (217, 13218), (220, 13233), (224, 13272), (228, 13287), (238, 13341), (264, 13455), (265, 13458), (272, 13500), (277, 13521), (290, 13626), (293, 13641), (295, 13656), (297, 13677), (299, 13689), (306, 13734), (316, 13830), (325, 13950), (348, 14088), (349, 14109), (366, 14196), (369, 14220), (372, 14247), (373, 14250), (377, 14280), (384, 14331), (388, 14367), (404, 14475), (422, 14610), (423, 14613), (438, 14679), (440, 14685), (447, 14724), (457, 14796), (459, 14802), (461, 14823), (469, 14907), (476, 14937), (478, 14958), (481, 14970), (489, 15051), (494, 15084), (497, 15093), (498, 15099), (505, 15141), (509, 15159), (512, 15192), (513, 15198), (532, 15486), (540, 15600), (541, 15609), (542, 15612), (548, 15681), (572, 15813), (587, 15933), (601, 16011), (603, 16032), (607, 16071),

Gene: Ellie_18 Start: 11944, Stop: 16092, Start Num: 14

Candidate Starts for Ellie_18:

(Start: 14 @11944 has 171 MA's), (23, 12013), (37, 12175), (57, 12277), (59, 12283), (63, 12304), (89, 12457), (90, 12469), (103, 12544), (110, 12574), (124, 12637), (127, 12658), (132, 12697), (143, 12775), (155, 12853), (159, 12877), (167, 12943), (176, 13018), (190, 13111), (208, 13192), (217, 13255), (224, 13309), (225, 13312), (229, 13330), (232, 13342), (242, 13399), (251, 13426), (257, 13450), (261, 13471), (264, 13492), (272, 13537), (296, 13711), (316, 13867), (325, 13987), (330, 14029), (331, 14035), (344, 14107), (348, 14125), (349, 14146), (369, 14257), (377, 14317), (382, 14350), (384, 14368), (387, 14386), (388, 14404), (390, 14416), (397, 14461), (404, 14512), (411, 14560), (422, 14638), (442, 14725), (444, 14731), (445, 14740), (454, 14797), (455, 14800), (463, 14875), (475, 14941), (493, 15076), (505, 15136), (507, 15151), (509, 15157), (541, 15607), (548, 15679), (549, 15688), (562, 15775), (587, 15928), (603, 16027), (606, 16054), (607, 16066),

Gene: Emerson_21 Start: 12076, Stop: 15909, Start Num: 14

Candidate Starts for Emerson_21:

(Start: 14 @12076 has 171 MA's), (23, 12145), (29, 12232), (37, 12307), (57, 12409), (63, 12436), (78, 12508), (79, 12520), (80, 12529), (90, 12601), (103, 12676), (122, 12760), (124, 12769), (127, 12790), (132, 12829), (143, 12907), (155, 12985), (167, 13075), (176, 13150), (190, 13243), (192, 13252), (194, 13264), (195, 13273), (238, 13510), (248, 13549), (257, 13582), (272, 13669), (278, 13693), (291, 13777), (301, 13861), (304, 13873), (308, 13894), (369, 14050), (379, 14131), (387, 14179), (388, 14197), (391, 14218), (397, 14254), (404, 14305), (413, 14362), (422, 14440), (424, 14449), (442, 14527), (445, 14542), (451, 14584), (461, 14638), (493, 14878), (507, 14953), (520, 15064), (532, 15283), (534, 15295), (548, 15478), (549, 15487), (561, 15559), (568, 15589), (572, 15610), (587, 15730), (600, 15802), (602, 15820), (603, 15826),

Gene: Enkosi_17 Start: 11327, Stop: 15460, Start Num: 14

Candidate Starts for Enkosi_17:

(10, 11288), (Start: 14 @11327 has 171 MA's), (23, 11396), (29, 11483), (37, 11561), (59, 11669), (63, 11690), (71, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (132, 12083), (143, 12161), (155, 12239), (159, 12263), (190, 12497), (208, 12578), (215, 12638), (224, 12695), (233, 12731), (238, 12764), (243, 12788), (260, 12854), (262, 12863), (272, 12923), (291, 13031), (296, 13076), (316, 13232), (324, 13343), (325, 13352), (326, 13364), (334, 13415), (338, 13433), (343, 13460), (348, 13490), (362, 13583), (369, 13622), (391, 13790),

(400, 13844), (404, 13877), (412, 13922), (422, 14003), (423, 14006), (442, 14090), (444, 14096), (445, 14105), (451, 14147), (460, 14183), (461, 14201), (463, 14240), (473, 14300), (493, 14441), (505, 14501), (507, 14516), (534, 14858), (548, 15047), (549, 15056), (559, 15119), (603, 15395),

Gene: Fefferhead_20 Start: 12111, Stop: 16259, Start Num: 14

Candidate Starts for Fefferhead_20:

(Start: 14 @12111 has 171 MA's), (23, 12180), (37, 12342), (57, 12444), (59, 12450), (63, 12471), (89, 12624), (90, 12636), (103, 12711), (124, 12804), (127, 12825), (132, 12864), (143, 12942), (155, 13020), (159, 13044), (166, 13098), (167, 13110), (176, 13185), (190, 13278), (208, 13359), (217, 13422), (224, 13476), (229, 13497), (232, 13509), (238, 13545), (242, 13566), (249, 13584), (257, 13617), (261, 13638), (262, 13644), (264, 13659), (266, 13665), (272, 13704), (296, 13878), (316, 14034), (330, 14196), (331, 14202), (342, 14253), (348, 14292), (349, 14313), (369, 14424), (377, 14484), (382, 14517), (384, 14535), (387, 14553), (388, 14571), (390, 14583), (397, 14628), (404, 14679), (411, 14727), (422, 14805), (424, 14814), (442, 14892), (444, 14898), (445, 14907), (454, 14964), (455, 14967), (463, 15042), (475, 15108), (493, 15243), (505, 15303), (507, 15318), (509, 15324), (541, 15774), (548, 15846), (549, 15855), (562, 15942), (587, 16095), (603, 16194), (606, 16221), (607, 16233),

Gene: Feyre_19 Start: 12055, Stop: 16164, Start Num: 13

Candidate Starts for Feyre_19:

(Start: 13 @12055 has 20 MA's), (39, 12313), (59, 12397), (75, 12463), (78, 12490), (80, 12511), (89, 12571), (90, 12583), (95, 12604), (103, 12658), (110, 12688), (124, 12751), (127, 12772), (143, 12889), (149, 12931), (150, 12934), (155, 12967), (162, 13000), (190, 13225), (193, 13237), (194, 13246), (213, 13324), (222, 13387), (225, 13402), (226, 13405), (228, 13414), (229, 13420), (232, 13432), (233, 13435), (238, 13468), (241, 13486), (243, 13492), (266, 13588), (272, 13627), (296, 13780), (302, 13822), (307, 13846), (316, 13936), (317, 13969), (332, 14110), (334, 14119), (338, 14137), (343, 14164), (354, 14242), (369, 14326), (386, 14449), (392, 14515), (410, 14617), (422, 14710), (424, 14719), (428, 14740), (436, 14773), (447, 14824), (448, 14845), (452, 14860), (453, 14866), (463, 14950), (467, 14980), (471, 14998), (480, 15037), (486, 15097), (491, 15130), (496, 15151), (499, 15175), (505, 15208), (516, 15292), (522, 15364), (540, 15673), (544, 15727), (546, 15742), (548, 15754), (553, 15784), (583, 15970), (587, 15994), (589, 16006), (604, 16093), (606, 16117),

Gene: Frosty24_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Frosty24_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Ganymede_22 Start: 12096, Stop: 15929, Start Num: 14

Candidate Starts for Ganymede_22:

(Start: 14 @12096 has 171 MA's), (23, 12165), (29, 12252), (57, 12429), (63, 12456), (79, 12540), (80, 12549), (90, 12621), (103, 12696), (122, 12780), (124, 12789), (127, 12810), (132, 12849), (143, 12927), (155, 13005), (167, 13095), (176, 13170), (190, 13263), (194, 13284), (195, 13293), (238, 13530), (248, 13569), (257, 13602), (272, 13689), (278, 13713), (291, 13797), (301, 13881), (304, 13893), (308, 13914), (369, 14070), (379, 14151), (387, 14199), (388, 14217), (391, 14238), (397, 14274), (404, 14325), (413, 14382), (422, 14460), (424, 14469), (442, 14547), (451, 14604), (461,

14658), (493, 14898), (507, 14973), (520, 15084), (532, 15303), (534, 15315), (548, 15498), (549, 15507), (561, 15579), (568, 15609), (572, 15630), (587, 15750), (600, 15822), (602, 15840), (603, 15846),

Gene: Gengar_19 Start: 12162, Stop: 16271, Start Num: 13

Candidate Starts for Gengar_19:

(Start: 13 @12162 has 20 MA's), (39, 12420), (59, 12504), (75, 12570), (80, 12618), (89, 12678), (90, 12690), (95, 12711), (103, 12765), (110, 12795), (124, 12858), (127, 12879), (134, 12936), (143, 12996), (155, 13074), (159, 13098), (165, 13140), (169, 13173), (190, 13332), (194, 13353), (213, 13431), (222, 13494), (225, 13509), (226, 13512), (228, 13521), (229, 13527), (232, 13539), (238, 13575), (241, 13593), (266, 13695), (272, 13734), (296, 13887), (302, 13929), (307, 13953), (316, 14043), (317, 14076), (323, 14142), (332, 14217), (334, 14226), (338, 14244), (343, 14271), (354, 14349), (369, 14433), (386, 14556), (392, 14622), (410, 14724), (422, 14817), (428, 14847), (434, 14874), (436, 14880), (447, 14931), (448, 14952), (452, 14967), (453, 14973), (463, 15057), (467, 15087), (471, 15105), (480, 15144), (486, 15204), (491, 15237), (496, 15258), (499, 15282), (505, 15315), (516, 15399), (522, 15471), (540, 15780), (544, 15834), (546, 15849), (548, 15861), (553, 15891), (583, 16077), (587, 16101), (589, 16113), (604, 16200), (606, 16224),

Gene: Geraldini_21 Start: 12092, Stop: 15925, Start Num: 14

Candidate Starts for Geraldini_21:

(Start: 14 @12092 has 171 MA's), (23, 12161), (24, 12182), (29, 12248), (57, 12425), (63, 12452), (78, 12524), (79, 12536), (80, 12545), (90, 12617), (103, 12692), (122, 12776), (124, 12785), (127, 12806), (132, 12845), (143, 12923), (155, 13001), (167, 13091), (176, 13166), (190, 13259), (192, 13268), (194, 13280), (195, 13289), (238, 13526), (248, 13565), (257, 13598), (272, 13685), (278, 13709), (291, 13793), (301, 13877), (304, 13889), (308, 13910), (369, 14066), (379, 14147), (387, 14195), (388, 14213), (391, 14234), (397, 14270), (404, 14321), (413, 14378), (422, 14456), (424, 14465), (442, 14543), (445, 14558), (451, 14600), (461, 14654), (493, 14894), (507, 14969), (520, 15080), (532, 15299), (534, 15311), (548, 15494), (549, 15503), (561, 15575), (568, 15605), (572, 15626), (587, 15746), (600, 15818), (602, 15836), (603, 15842),

Gene: Gideon_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Gideon_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: GodSpeed_17 Start: 11597, Stop: 15640, Start Num: 15

Candidate Starts for GodSpeed_17:

(Start: 15 @11597 has 38 MA's), (25, 11690), (28, 11720), (39, 11867), (59, 11951), (63, 11972), (69, 11999), (77, 12023), (78, 12044), (90, 12137), (95, 12158), (124, 12305), (130, 12347), (132, 12365), (135, 12389), (136, 12401), (146, 12461), (147, 12473), (150, 12488), (155, 12521), (166, 12599), (173, 12653), (175, 12677), (178, 12698), (182, 12719), (184, 12731), (186, 12758), (194, 12800), (202, 12848), (232, 13019), (234, 13031), (245, 13088), (251, 13103), (262, 13154), (264, 13169), (272, 13214), (286, 13292), (307, 13433), (313, 13514), (316, 13523), (320, 13583), (321, 13598), (332, 13697), (336, 13718), (343, 13751), (347, 13778), (352, 13811), (355, 13832), (365, 13886), (366, 13889), (373, 13943), (375, 13964), (390, 14072), (398, 14126), (416, 14234), (418, 14249), (421, 14297), (426, 14318), (429, 14333), (445, 14396), (447, 14408), (450, 14432), (451, 14435),

(454, 14450), (462, 14501), (463, 14528), (483, 14633), (493, 14729), (507, 14804), (522, 14927), (523, 14948), (527, 15011), (528, 15020), (535, 15149), (542, 15230), (543, 15257), (546, 15287), (548, 15299), (553, 15329), (574, 15467), (585, 15548), (588, 15566),

Gene: GoldenAsh_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for GoldenAsh_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Gomashi_16 Start: 11465, Stop: 15478, Start Num: 14

Candidate Starts for Gomashi_16:

(Start: 14 @11465 has 171 MA's), (32, 11666), (53, 11780), (63, 11822), (70, 11852), (90, 11987), (93, 11999), (95, 12008), (130, 12197), (132, 12215), (133, 12218), (135, 12239), (136, 12251), (147, 12323), (155, 12371), (173, 12503), (175, 12527), (186, 12608), (211, 12731), (222, 12815), (230, 12851), (238, 12896), (239, 12902), (264, 13010), (268, 13034), (272, 13055), (307, 13274), (320, 13424), (328, 13511), (347, 13619), (369, 13754), (384, 13865), (387, 13883), (390, 13913), (420, 14135), (426, 14159), (429, 14174), (433, 14195), (442, 14222), (447, 14249), (458, 14309), (466, 14399), (472, 14432), (484, 14495), (488, 14552), (492, 14585), (495, 14594), (542, 15098), (543, 15125), (546, 15155), (548, 15167), (549, 15176), (561, 15245), (577, 15326), (585, 15386), (588, 15404), (590, 15413),

Gene: Grizzly_16 Start: 11464, Stop: 15480, Start Num: 14

Candidate Starts for Grizzly_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (61, 11812), (63, 11821), (70, 11851), (90, 11986), (95, 12007), (124, 12154), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (228, 12841), (230, 12850), (239, 12901), (244, 12925), (253, 12952), (272, 13054), (305, 13261), (307, 13273), (319, 13420), (320, 13423), (347, 13618), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (435, 14197), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (474, 14446), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15100), (543, 15127), (546, 15157), (548, 15169), (549, 15178), (561, 15247), (577, 15328), (585, 15388), (588, 15406), (590, 15415),

Gene: Guanica15_21 Start: 11016, Stop: 15143, Start Num: 15

Candidate Starts for Guanica15_21:

(9, 10968), (Start: 15 @11016 has 38 MA's), (26, 11109), (38, 11241), (41, 11265), (47, 11295), (52, 11316), (55, 11328), (68, 11388), (82, 11475), (88, 11508), (91, 11526), (92, 11529), (105, 11601), (133, 11745), (137, 11787), (140, 11802), (145, 11838), (156, 11910), (172, 12012), (197, 12195), (203, 12222), (208, 12240), (209, 12246), (214, 12288), (226, 12360), (227, 12366), (231, 12381), (236, 12402), (239, 12420), (242, 12435), (255, 12483), (262, 12516), (266, 12531), (272, 12570), (277, 12591), (283, 12621), (306, 12789), (309, 12840), (325, 13005), (327, 13029), (338, 13086), (346, 13137), (351, 13170), (353, 13179), (366, 13251), (375, 13326), (378, 13344), (384, 13386), (387, 13404), (389, 13431), (391, 13443), (409, 13572), (414, 13590), (422, 13671), (423, 13674), (442, 13758), (450, 13812), (451, 13815), (463, 13908), (475, 13974), (493, 14109), (514, 14235), (540, 14631), (541, 14640), (548, 14712), (561, 14796), (587, 14964), (600, 15036), (603, 15060), (607, 15099),

Gene: Guillsminger_19 Start: 12137, Stop: 16246, Start Num: 13

Candidate Starts for Guillsminger_19:

(Start: 13 @12137 has 20 MA's), (39, 12395), (59, 12479), (75, 12545), (80, 12593), (89, 12653), (90, 12665), (95, 12686), (103, 12740), (110, 12770), (124, 12833), (127, 12854), (134, 12911), (143, 12971), (155, 13049), (159, 13073), (165, 13115), (169, 13148), (190, 13307), (194, 13328), (213, 13406), (222, 13469), (225, 13484), (226, 13487), (228, 13496), (229, 13502), (232, 13514), (238, 13550), (241, 13568), (266, 13670), (272, 13709), (296, 13862), (302, 13904), (307, 13928), (316, 14018), (317, 14051), (323, 14117), (332, 14192), (334, 14201), (338, 14219), (343, 14246), (354, 14324), (369, 14408), (386, 14531), (392, 14597), (410, 14699), (422, 14792), (428, 14822), (434, 14849), (436, 14855), (447, 14906), (448, 14927), (452, 14942), (453, 14948), (463, 15032), (467, 15062), (471, 15080), (480, 15119), (486, 15179), (491, 15212), (496, 15233), (499, 15257), (505, 15290), (516, 15374), (522, 15446), (540, 15755), (544, 15809), (546, 15824), (548, 15836), (553, 15866), (583, 16052), (587, 16076), (589, 16088), (604, 16175), (606, 16199),

Gene: Halo_16 Start: 11459, Stop: 15472, Start Num: 14

Candidate Starts for Halo_16:

(Start: 14 @11459 has 171 MA's), (32, 11660), (53, 11774), (63, 11816), (70, 11846), (90, 11981), (93, 11993), (95, 12002), (130, 12191), (132, 12209), (133, 12212), (135, 12233), (136, 12245), (147, 12317), (155, 12365), (173, 12497), (175, 12521), (186, 12602), (211, 12725), (222, 12809), (230, 12845), (238, 12890), (239, 12896), (264, 13004), (268, 13028), (272, 13049), (307, 13268), (320, 13418), (328, 13505), (347, 13613), (369, 13748), (384, 13859), (387, 13877), (390, 13907), (420, 14129), (426, 14153), (429, 14168), (433, 14189), (442, 14216), (447, 14243), (458, 14303), (466, 14393), (472, 14426), (484, 14489), (488, 14546), (492, 14579), (495, 14588), (542, 15092), (543, 15119), (546, 15149), (548, 15161), (549, 15170), (561, 15239), (577, 15320), (585, 15380), (588, 15398), (590, 15407),

Gene: Hammy_20 Start: 12190, Stop: 16329, Start Num: 14

Candidate Starts for Hammy_20:

(9, 12145), (Start: 14 @12190 has 171 MA's), (23, 12259), (29, 12346), (37, 12421), (57, 12523), (59, 12529), (63, 12550), (71, 12583), (75, 12595), (79, 12634), (80, 12643), (89, 12703), (90, 12715), (95, 12736), (103, 12790), (110, 12820), (124, 12883), (127, 12904), (132, 12943), (143, 13021), (155, 13099), (159, 13123), (182, 13297), (186, 13336), (187, 13345), (188, 13348), (194, 13378), (217, 13501), (220, 13516), (224, 13555), (234, 13600), (238, 13624), (263, 13726), (264, 13738), (266, 13744), (272, 13783), (290, 13909), (293, 13924), (297, 13960), (299, 13972), (306, 14017), (316, 14113), (342, 14332), (348, 14371), (349, 14392), (366, 14479), (369, 14503), (372, 14530), (373, 14533), (377, 14563), (384, 14614), (388, 14650), (404, 14758), (422, 14893), (423, 14896), (438, 14962), (440, 14968), (447, 15007), (457, 15079), (459, 15085), (461, 15106), (469, 15190), (476, 15220), (478, 15241), (481, 15253), (489, 15334), (494, 15367), (497, 15376), (498, 15382), (505, 15424), (509, 15442), (512, 15475), (513, 15481), (521, 15526), (532, 15736), (540, 15835), (541, 15844), (542, 15847), (548, 15916), (572, 16051), (580, 16120), (587, 16168), (603, 16264), (607, 16303),

Gene: HedwigODU_21 Start: 12079, Stop: 15918, Start Num: 14

Candidate Starts for HedwigODU_21:

(Start: 14 @12079 has 171 MA's), (23, 12148), (29, 12235), (57, 12412), (63, 12439), (78, 12511), (79, 12523), (80, 12532), (90, 12604), (103, 12679), (122, 12763), (124, 12772), (127, 12793), (132, 12832), (143, 12910), (155, 12988), (167, 13078), (176, 13153), (190, 13246), (192, 13255), (194, 13267), (195, 13276), (243, 13537), (248, 13552), (257, 13585), (272, 13672), (278, 13696), (291, 13780), (301, 13864), (304, 13876), (308, 13897), (369, 14053), (379, 14134), (387, 14182), (388, 14200), (391, 14221), (397, 14257), (404, 14308), (413, 14365), (422, 14443), (424, 14452), (442, 14530), (451, 14587), (461, 14641), (493, 14881), (507, 14956), (520, 15067), (532, 15286), (534, 15298), (548, 15487), (549, 15496), (561, 15568), (568, 15598), (572, 15619), (587, 15739), (600,

15811), (602, 15829), (603, 15835),

Gene: Heftyboy_19 Start: 12264, Stop: 16394, Start Num: 13

Candidate Starts for Heftyboy_19:

(Start: 13 @12264 has 20 MA's), (24, 12357), (30, 12435), (31, 12459), (39, 12519), (59, 12603), (61, 12615), (80, 12717), (89, 12777), (90, 12789), (95, 12810), (103, 12864), (114, 12912), (124, 12957), (127, 12978), (143, 13095), (155, 13173), (159, 13197), (167, 13263), (176, 13338), (190, 13431), (195, 13461), (226, 13635), (228, 13644), (234, 13674), (238, 13698), (242, 13719), (259, 13779), (272, 13857), (274, 13866), (288, 13944), (296, 14010), (302, 14052), (304, 14061), (311, 14145), (316, 14166), (317, 14199), (332, 14340), (334, 14349), (338, 14367), (343, 14394), (354, 14472), (369, 14556), (386, 14679), (392, 14745), (422, 14940), (428, 14970), (434, 14997), (436, 15003), (443, 15030), (448, 15075), (452, 15090), (453, 15096), (463, 15180), (471, 15228), (480, 15267), (486, 15327), (491, 15360), (496, 15381), (499, 15405), (505, 15438), (516, 15522), (522, 15594), (540, 15903), (544, 15957), (546, 15972), (548, 15984), (553, 16014), (583, 16200), (587, 16224), (589, 16236), (604, 16323), (606, 16347),

Gene: Homura_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Homura_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (519, 15089), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Hope_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Hope_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Hotshotbaby7_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Hotshotbaby7_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Hurricane_20 Start: 12208, Stop: 16356, Start Num: 14

Candidate Starts for Hurricane_20:

(Start: 14 @12208 has 171 MA's), (23, 12277), (24, 12298), (26, 12304), (29, 12364), (48, 12502), (59, 12547), (63, 12568), (67, 12589), (78, 12640), (89, 12721), (90, 12733), (95, 12754), (103, 12808), (113, 12850), (124, 12901), (127, 12922), (129, 12940), (133, 12964), (139, 13015), (143, 13039), (150, 13084), (155, 13117), (159, 13141), (182, 13315), (190, 13375), (194, 13396), (195, 13405), (224, 13573), (229, 13594), (234, 13618), (238, 13642), (242, 13663), (249, 13681), (254, 13702), (257, 13714), (264, 13756), (265, 13759), (272, 13801), (275, 13816), (286, 13879), (299, 13990), (303, 14020), (310, 14098), (322, 14218), (325, 14251), (340, 14341), (343, 14359), (348, 14389), (351, 14416), (384, 14632), (388, 14668), (400, 14743), (404, 14776), (405, 14788), (414, 14836), (422, 14917), (423, 14920), (451, 15037), (463, 15130), (477, 15208), (490, 15307), (493, 15331), (507, 15406), (540, 15865), (541, 15874), (542, 15877), (548, 15946), (549, 15955), (572, 16087), (581, 16147), (582, 16165), (589, 16201), (591, 16210), (602, 16276), (603, 16282), (605, 16297), (606, 16309),

Gene: Hyperbowlee_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Hyperbowlee_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Illumine_21 Start: 12077, Stop: 15931, Start Num: 14

Candidate Starts for Illumine_21:

(Start: 14 @12077 has 171 MA's), (23, 12146), (29, 12233), (57, 12413), (63, 12440), (79, 12524), (80, 12533), (89, 12593), (90, 12605), (103, 12680), (113, 12722), (122, 12764), (124, 12773), (127, 12794), (132, 12833), (143, 12911), (149, 12953), (155, 12989), (176, 13154), (190, 13247), (194, 13268), (195, 13277), (243, 13559), (248, 13574), (257, 13607), (272, 13694), (291, 13802), (301, 13886), (304, 13898), (308, 13919), (369, 14075), (379, 14156), (387, 14204), (388, 14222), (391, 14243), (397, 14279), (404, 14330), (413, 14387), (422, 14465), (424, 14474), (442, 14552), (445, 14567), (451, 14609), (461, 14663), (477, 14780), (493, 14903), (507, 14978), (523, 15131), (532, 15308), (540, 15422), (548, 15503), (549, 15512), (561, 15584), (568, 15614), (572, 15635), (587, 15752), (600, 15824), (603, 15848),

Gene: Inky_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Inky_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: InvictusManeo_19 Start: 12240, Stop: 16346, Start Num: 13

Candidate Starts for InvictusManeo_19:

(Start: 13 @12240 has 20 MA's), (24, 12333), (30, 12411), (31, 12435), (39, 12495), (59, 12579), (61, 12591), (80, 12693), (89, 12753), (90, 12765), (95, 12786), (103, 12840), (114, 12888), (124, 12933), (127, 12954), (143, 13071), (155, 13149), (159, 13173), (167, 13239), (176, 13314), (190, 13407), (195, 13437), (226, 13611), (228, 13620), (234, 13650), (238, 13674), (242, 13695), (259, 13755), (272, 13833), (274, 13842), (288, 13920), (296, 13986), (302, 14028), (304, 14037), (311, 14121), (316, 14142), (317, 14175), (323, 14241), (325, 14262), (332, 14316), (334, 14325), (338, 14343), (342, 14361), (343, 14370), (348, 14400), (353, 14436), (361, 14490), (368, 14526), (369, 14532), (371, 14550), (386, 14655), (392, 14721), (422, 14916), (428, 14946), (436, 14979), (447, 15030), (448, 15051), (452, 15066), (453, 15072), (463, 15156), (471, 15204), (480, 15243), (486, 15303), (491, 15336), (496, 15357), (499, 15381), (505, 15411), (516, 15477), (522, 15549), (540, 15864), (541, 15873), (542, 15876), (544, 15918), (548, 15945), (553, 15975), (561, 16026), (566, 16044), (577, 16110), (583, 16158), (587, 16182), (589, 16194), (604, 16275), (606, 16299), (611, 16338),

Gene: JAWS_21 Start: 12070, Stop: 15903, Start Num: 14

Candidate Starts for JAWS_21:

(Start: 14 @12070 has 171 MA's), (23, 12139), (29, 12226), (37, 12301), (57, 12403), (63, 12430), (78, 12502), (79, 12514), (80, 12523), (90, 12595), (103, 12670), (122, 12754), (124, 12763), (127, 12784), (132, 12823), (136, 12859), (143, 12901), (155, 12979), (167, 13069), (176, 13144), (190, 13237), (192, 13246), (194, 13258), (195, 13267), (238, 13504), (248, 13543), (257, 13576), (272, 13663), (278, 13687), (291, 13771), (301, 13855), (304, 13867), (308, 13888), (369, 14044), (379, 14125), (387, 14173), (388, 14191), (391, 14212), (397, 14248), (404, 14299), (413, 14356), (422, 14434), (424, 14443), (442, 14521), (445, 14536), (451, 14578), (461, 14632), (493, 14872), (507, 14947), (520, 15058), (532, 15277), (534, 15289), (548, 15472), (549, 15481), (561, 15553), (568, 15583), (572, 15604), (587, 15724), (600, 15796), (602, 15814), (603, 15820),

Gene: Jane_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Jane_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Jarvi_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Jarvi_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Jayhawk_21 Start: 12080, Stop: 15916, Start Num: 14

Candidate Starts for Jayhawk_21:

(Start: 14 @12080 has 171 MA's), (23, 12149), (29, 12236), (57, 12413), (63, 12440), (78, 12512), (79, 12524), (80, 12533), (90, 12605), (103, 12680), (122, 12764), (124, 12773), (127, 12794), (132,

12833), (143, 12911), (155, 12989), (167, 13079), (176, 13154), (190, 13247), (192, 13256), (194, 13268), (195, 13277), (243, 13538), (248, 13553), (257, 13586), (272, 13673), (278, 13697), (291, 13781), (301, 13865), (304, 13877), (308, 13898), (369, 14054), (379, 14135), (387, 14183), (388, 14201), (391, 14222), (397, 14258), (404, 14309), (413, 14366), (422, 14444), (424, 14453), (442, 14531), (451, 14588), (461, 14642), (493, 14882), (507, 14957), (520, 15068), (532, 15287), (534, 15299), (548, 15485), (549, 15494), (561, 15566), (568, 15596), (572, 15617), (587, 15737), (600, 15809), (602, 15827), (603, 15833),

Gene: Jeckyll_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Jeckyll_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Jeilious_16 Start: 11463, Stop: 15476, Start Num: 14

Candidate Starts for Jeilious_16:

(Start: 14 @11463 has 171 MA's), (32, 11664), (53, 11778), (63, 11820), (70, 11850), (90, 11985), (93, 11997), (95, 12006), (130, 12195), (132, 12213), (133, 12216), (135, 12237), (136, 12249), (147, 12321), (155, 12369), (173, 12501), (175, 12525), (186, 12606), (211, 12729), (222, 12813), (230, 12849), (238, 12894), (239, 12900), (264, 13008), (268, 13032), (272, 13053), (307, 13272), (320, 13422), (328, 13509), (347, 13617), (369, 13752), (384, 13863), (387, 13881), (390, 13911), (420, 14133), (426, 14157), (429, 14172), (433, 14193), (442, 14220), (447, 14247), (458, 14307), (466, 14397), (472, 14430), (484, 14493), (488, 14550), (492, 14583), (495, 14592), (542, 15096), (543, 15123), (546, 15153), (548, 15165), (549, 15174), (561, 15243), (577, 15324), (585, 15384), (588, 15402), (590, 15411),

Gene: Jolene_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Jolene_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Jolie2_16 Start: 10765, Stop: 14787, Start Num: 15

Candidate Starts for Jolie2_16:

(Start: 15 @10765 has 38 MA's), (23, 10834), (26, 10861), (34, 10975), (60, 11098), (64, 11122), (65, 11125), (73, 11158), (74, 11161), (79, 11203), (80, 11212), (101, 11344), (106, 11368), (111, 11386), (120, 11431), (126, 11455), (127, 11467), (133, 11509), (137, 11551), (144, 11596), (145, 11602), (155, 11665), (156, 11674), (158, 11686), (161, 11695), (165, 11728), (172, 11776), (197, 11953), (205, 11986), (206, 11989), (209, 12004), (227, 12124), (231, 12139), (235, 12157), (236, 12160), (242, 12193), (250, 12220), (260, 12265), (266, 12289), (268, 12307), (272, 12328), (289, 12424), (298, 12496), (320, 12703), (324, 12754), (338, 12844), (340, 12853), (343, 12871), (346, 12895),

(348, 12901), (357, 12961), (365, 13006), (366, 13009), (367, 13015), (377, 13093), (382, 13126), (391, 13201), (420, 13414), (425, 13435), (426, 13438), (429, 13453), (437, 13486), (459, 13588), (466, 13678), (484, 13771), (487, 13825), (488, 13828), (492, 13861), (497, 13876), (502, 13915), (510, 13942), (523, 14080), (530, 14200), (536, 14287), (546, 14443), (548, 14455), (557, 14539), (564, 14578), (588, 14713),

Gene: Jonghyun_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Jonghyun_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: JorRay_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for JorRay_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Joy99_21 Start: 12045, Stop: 15878, Start Num: 14

Candidate Starts for Joy99_21:

(Start: 14 @12045 has 171 MA's), (23, 12114), (24, 12135), (29, 12201), (57, 12378), (63, 12405), (78, 12477), (79, 12489), (80, 12498), (90, 12570), (103, 12645), (122, 12729), (124, 12738), (127, 12759), (132, 12798), (143, 12876), (155, 12954), (167, 13044), (176, 13119), (190, 13212), (192, 13221), (194, 13233), (195, 13242), (238, 13479), (248, 13518), (257, 13551), (272, 13638), (278, 13662), (291, 13746), (301, 13830), (304, 13842), (308, 13863), (369, 14019), (379, 14100), (387, 14148), (388, 14166), (391, 14187), (397, 14223), (404, 14274), (413, 14331), (422, 14409), (424, 14418), (442, 14496), (445, 14511), (451, 14553), (461, 14607), (493, 14847), (507, 14922), (520, 15033), (532, 15252), (534, 15264), (548, 15447), (549, 15456), (561, 15528), (568, 15558), (572, 15579), (587, 15699), (600, 15771), (602, 15789), (603, 15795),

Gene: Kareem_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Kareem_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Kasen3_16 Start: 11465, Stop: 15478, Start Num: 14

Candidate Starts for Kasen3_16:

(Start: 14 @11465 has 171 MA's), (32, 11666), (53, 11780), (63, 11822), (70, 11852), (90, 11987), (93, 11999), (95, 12008), (130, 12197), (132, 12215), (133, 12218), (135, 12239), (136, 12251), (147, 12323), (155, 12371), (173, 12503), (175, 12527), (186, 12608), (211, 12731), (222, 12815), (230, 12851), (238, 12896), (239, 12902), (264, 13010), (268, 13034), (272, 13055), (307, 13274), (320, 13424), (328, 13511), (347, 13619), (369, 13754), (384, 13865), (387, 13883), (390, 13913), (420, 14135), (426, 14159), (429, 14174), (433, 14195), (442, 14222), (447, 14249), (458, 14309), (466, 14399), (472, 14432), (484, 14495), (488, 14552), (492, 14585), (495, 14594), (542, 15098), (543, 15125), (546, 15155), (548, 15167), (549, 15176), (561, 15245), (577, 15326), (585, 15386), (588, 15404), (590, 15413),

Gene: Keshu_20 Start: 12188, Stop: 16348, Start Num: 14

Candidate Starts for Keshu_20:

(Start: 14 @12188 has 171 MA's), (23, 12257), (24, 12278), (26, 12284), (29, 12344), (48, 12482), (53, 12506), (59, 12527), (63, 12548), (67, 12569), (89, 12701), (90, 12713), (95, 12734), (103, 12788), (110, 12818), (115, 12839), (122, 12872), (124, 12881), (127, 12902), (132, 12941), (143, 13019), (149, 13061), (155, 13097), (159, 13121), (182, 13295), (186, 13334), (190, 13355), (194, 13376), (195, 13385), (229, 13574), (234, 13598), (238, 13622), (242, 13643), (249, 13661), (257, 13694), (259, 13703), (264, 13736), (265, 13739), (266, 13742), (272, 13781), (274, 13790), (286, 13859), (299, 13970), (303, 14000), (310, 14078), (322, 14198), (325, 14231), (340, 14321), (343, 14339), (348, 14369), (351, 14396), (369, 14501), (373, 14531), (388, 14648), (397, 14705), (400, 14723), (402, 14744), (404, 14756), (414, 14816), (422, 14897), (423, 14900), (444, 14990), (451, 15020), (463, 15113), (477, 15191), (493, 15314), (507, 15389), (540, 15854), (542, 15866), (548, 15935), (549, 15944), (553, 15965), (581, 16139), (582, 16157), (589, 16193), (591, 16202), (602, 16268), (603, 16274), (605, 16289), (606, 16301),

Gene: KiSi_20 Start: 11011, Stop: 15084, Start Num: 15

Candidate Starts for KiSi_20:

(Start: 15 @11011 has 38 MA's), (26, 11104), (42, 11263), (43, 11272), (45, 11281), (66, 11374), (79, 11443), (80, 11452), (81, 11464), (82, 11470), (88, 11503), (95, 11539), (104, 11596), (106, 11608), (118, 11662), (125, 11692), (137, 11779), (140, 11794), (145, 11830), (172, 12004), (197, 12187), (199, 12196), (209, 12238), (214, 12280), (223, 12340), (226, 12352), (227, 12358), (231, 12373), (235, 12391), (236, 12394), (242, 12427), (270, 12550), (272, 12562), (273, 12568), (277, 12583), (279, 12589), (302, 12673), (310, 12754), (325, 12907), (341, 13003), (343, 13015), (348, 13045), (355, 13096), (358, 13117), (364, 13147), (366, 13153), (369, 13177), (377, 13237), (384, 13288), (389, 13333), (400, 13399), (404, 13432), (413, 13489), (422, 13567), (423, 13570), (442, 13654), (447, 13681), (451, 13711), (461, 13765), (463, 13804), (493, 14005), (507, 14080), (530, 14365), (532, 14422), (548, 14623), (562, 14737), (587, 14914), (600, 14998), (603, 15019),

Gene: Kratio_18 Start: 11868, Stop: 15977, Start Num: 13

Candidate Starts for Kratio_18:

(Start: 13 @11868 has 20 MA's), (24, 11961), (30, 12039), (31, 12063), (39, 12123), (59, 12207), (75, 12273), (80, 12321), (89, 12381), (90, 12393), (95, 12414), (103, 12468), (114, 12516), (124, 12561), (127, 12582), (143, 12699), (155, 12777), (159, 12801), (167, 12867), (176, 12942), (190, 13035), (195, 13065), (226, 13239), (228, 13248), (234, 13278), (238, 13302), (242, 13323), (259, 13383), (272, 13461), (274, 13470), (288, 13548), (296, 13614), (302, 13656), (311, 13749), (316, 13770), (317, 13803), (323, 13869), (325, 13890), (332, 13944), (334, 13953), (338, 13971), (342, 13989), (343, 13998), (348, 14028), (353, 14064), (368, 14154), (369, 14160), (371, 14178), (386, 14283), (392, 14349), (422, 14544), (428, 14574), (436, 14607), (447, 14658), (448, 14679), (452, 14694), (453, 14700), (463, 14784), (471, 14832), (480, 14871), (486, 14931), (491, 14964), (496, 14985), (499, 15009), (516, 15105), (522, 15177), (540, 15492), (541, 15501), (542, 15504), (544, 15546),

(546, 15561), (548, 15573), (553, 15603), (561, 15654), (566, 15672), (583, 15789), (587, 15813), (589, 15825), (604, 15906), (606, 15930), (611, 15969),

Gene: Krueger_20 Start: 11051, Stop: 15055, Start Num: 15

Candidate Starts for Krueger_20:

(Start: 15 @11051 has 38 MA's), (26, 11144), (33, 11249), (42, 11303), (45, 11321), (50, 11339), (56, 11369), (62, 11396), (64, 11402), (76, 11447), (88, 11543), (91, 11561), (92, 11564), (116, 11678), (118, 11693), (137, 11810), (140, 11825), (152, 11906), (163, 11966), (164, 11975), (172, 12035), (197, 12218), (198, 12224), (210, 12281), (223, 12371), (226, 12383), (227, 12389), (231, 12404), (236, 12425), (239, 12443), (258, 12518), (265, 12551), (270, 12581), (272, 12593), (277, 12614), (284, 12653), (300, 12698), (304, 12713), (319, 12875), (325, 12938), (328, 12965), (342, 13037), (348, 13076), (355, 13127), (358, 13148), (364, 13178), (366, 13184), (369, 13208), (375, 13259), (383, 13313), (388, 13355), (391, 13376), (397, 13412), (404, 13463), (422, 13604), (423, 13607), (442, 13691), (447, 13718), (461, 13802), (493, 14042), (507, 14117), (540, 14555), (541, 14564), (548, 14636), (549, 14645), (561, 14720), (568, 14750), (572, 14771), (587, 14888), (600, 14963), (605, 15002), (606, 15014),

Gene: Larva_19 Start: 11980, Stop: 16092, Start Num: 13

Candidate Starts for Larva_19:

(Start: 13 @11980 has 20 MA's), (24, 12073), (30, 12151), (31, 12175), (39, 12235), (59, 12319), (80, 12433), (89, 12493), (90, 12505), (95, 12526), (103, 12580), (114, 12628), (124, 12673), (127, 12694), (143, 12811), (155, 12889), (159, 12913), (167, 12979), (176, 13054), (190, 13147), (195, 13177), (226, 13351), (234, 13390), (238, 13414), (242, 13435), (259, 13495), (272, 13573), (288, 13660), (296, 13726), (302, 13768), (304, 13777), (311, 13861), (316, 13882), (317, 13915), (323, 13981), (325, 14002), (332, 14056), (334, 14065), (338, 14083), (343, 14110), (348, 14140), (353, 14176), (368, 14266), (369, 14272), (371, 14290), (386, 14395), (392, 14461), (422, 14656), (428, 14686), (436, 14719), (447, 14770), (448, 14791), (452, 14806), (453, 14812), (463, 14896), (471, 14944), (480, 14983), (486, 15043), (491, 15076), (496, 15097), (499, 15121), (505, 15151), (516, 15217), (522, 15289), (540, 15604), (541, 15613), (542, 15616), (543, 15643), (544, 15658), (546, 15673), (548, 15685), (553, 15715), (561, 15769), (566, 15787), (577, 15856), (583, 15904), (587, 15928), (589, 15940), (591, 15949), (604, 16021), (606, 16045), (611, 16084),

Gene: LastHope_21 Start: 11090, Stop: 15217, Start Num: 15

Candidate Starts for LastHope_21:

(9, 11042), (Start: 15 @11090 has 38 MA's), (26, 11183), (38, 11315), (41, 11339), (47, 11369), (52, 11390), (55, 11402), (56, 11408), (62, 11435), (68, 11462), (82, 11549), (88, 11582), (91, 11600), (92, 11603), (98, 11645), (110, 11693), (133, 11819), (137, 11861), (140, 11876), (145, 11912), (156, 11984), (172, 12086), (190, 12224), (197, 12269), (207, 12311), (208, 12314), (209, 12320), (210, 12332), (214, 12362), (223, 12422), (227, 12440), (231, 12455), (235, 12473), (236, 12476), (242, 12509), (262, 12590), (266, 12605), (272, 12644), (277, 12665), (301, 12842), (304, 12854), (309, 12914), (315, 12956), (325, 13079), (327, 13103), (338, 13160), (341, 13175), (342, 13178), (351, 13244), (353, 13253), (357, 13277), (366, 13325), (375, 13400), (378, 13418), (387, 13478), (389, 13505), (391, 13517), (397, 13553), (400, 13571), (405, 13616), (409, 13646), (414, 13664), (422, 13745), (423, 13748), (442, 13832), (445, 13847), (450, 13886), (451, 13889), (463, 13982), (475, 14048), (493, 14183), (530, 14534), (540, 14705), (548, 14786), (553, 14816), (561, 14870), (587, 15038), (600, 15110), (602, 15128), (603, 15134),

Gene: LaterM_21 Start: 12043, Stop: 15876, Start Num: 14

Candidate Starts for LaterM_21:

(Start: 14 @12043 has 171 MA's), (23, 12112), (29, 12199), (57, 12379), (63, 12406), (79, 12490), (80, 12499), (89, 12559), (90, 12571), (103, 12646), (113, 12688), (122, 12730), (124, 12739), (127, 12760), (132, 12799), (143, 12877), (155, 12955), (176, 13120), (190, 13213), (194, 13234), (195, 13243), (238, 13480), (243, 13504), (248, 13519), (257, 13552), (272, 13639), (291, 13747), (301,

13831), (304, 13843), (308, 13864), (315, 13945), (369, 14020), (379, 14101), (381, 14110), (387, 14149), (388, 14167), (391, 14188), (397, 14224), (404, 14275), (413, 14332), (422, 14410), (424, 14419), (442, 14497), (445, 14512), (451, 14554), (461, 14608), (493, 14848), (507, 14923), (520, 15034), (532, 15253), (540, 15367), (548, 15448), (549, 15457), (561, 15529), (568, 15559), (572, 15580), (587, 15697), (600, 15769), (603, 15793),

Gene: Lavahound_19 Start: 11863, Stop: 16011, Start Num: 14

Candidate Starts for Lavahound_19:

(Start: 14 @11863 has 171 MA's), (23, 11932), (37, 12094), (57, 12196), (59, 12202), (63, 12223), (89, 12376), (90, 12388), (103, 12463), (124, 12556), (127, 12577), (132, 12616), (143, 12694), (155, 12772), (159, 12796), (166, 12850), (167, 12862), (176, 12937), (190, 13030), (208, 13111), (217, 13174), (224, 13228), (229, 13249), (232, 13261), (238, 13297), (242, 13318), (251, 13345), (257, 13369), (261, 13390), (264, 13411), (272, 13456), (290, 13582), (296, 13630), (306, 13690), (307, 13696), (316, 13786), (323, 13885), (324, 13897), (330, 13948), (331, 13954), (342, 14005), (348, 14044), (349, 14065), (369, 14176), (377, 14236), (382, 14269), (384, 14287), (387, 14305), (388, 14323), (390, 14335), (397, 14380), (404, 14431), (411, 14479), (422, 14557), (442, 14644), (444, 14650), (445, 14659), (454, 14716), (455, 14719), (463, 14794), (475, 14860), (493, 14995), (505, 15055), (507, 15070), (509, 15076), (541, 15526), (548, 15598), (549, 15607), (562, 15694), (587, 15847), (603, 15946), (606, 15973), (607, 15985),

Gene: LeMond_20 Start: 11082, Stop: 15155, Start Num: 15

Candidate Starts for LeMond_20:

(Start: 15 @11082 has 38 MA's), (26, 11175), (38, 11307), (66, 11445), (80, 11523), (81, 11535), (82, 11541), (88, 11574), (95, 11610), (104, 11667), (106, 11679), (118, 11733), (125, 11763), (137, 11850), (140, 11865), (145, 11901), (161, 11994), (172, 12075), (197, 12258), (199, 12267), (209, 12309), (214, 12351), (223, 12411), (226, 12423), (227, 12429), (231, 12444), (236, 12465), (242, 12498), (270, 12621), (272, 12633), (273, 12639), (277, 12654), (279, 12660), (302, 12744), (310, 12825), (325, 12978), (341, 13074), (348, 13116), (355, 13167), (358, 13188), (364, 13218), (366, 13224), (369, 13248), (377, 13308), (384, 13359), (389, 13404), (391, 13416), (400, 13470), (404, 13503), (413, 13560), (422, 13638), (423, 13641), (442, 13725), (451, 13782), (461, 13836), (463, 13875), (483, 13980), (493, 14076), (507, 14151), (520, 14274), (532, 14493), (548, 14694), (562, 14808), (587, 14985), (600, 15069), (603, 15090),

Gene: Lea83_20 Start: 12197, Stop: 16345, Start Num: 14

Candidate Starts for Lea83_20:

(Start: 14 @12197 has 171 MA's), (23, 12266), (24, 12287), (26, 12293), (29, 12353), (48, 12491), (59, 12536), (63, 12557), (75, 12602), (89, 12710), (90, 12722), (95, 12743), (103, 12797), (110, 12827), (115, 12848), (122, 12881), (124, 12890), (127, 12911), (132, 12950), (143, 13028), (149, 13070), (155, 13106), (159, 13130), (182, 13304), (190, 13364), (194, 13385), (195, 13394), (224, 13562), (229, 13583), (234, 13607), (238, 13631), (242, 13652), (249, 13670), (257, 13703), (264, 13745), (265, 13748), (266, 13751), (272, 13790), (274, 13799), (286, 13868), (299, 13979), (303, 14009), (322, 14207), (325, 14240), (340, 14330), (343, 14348), (348, 14378), (351, 14405), (384, 14621), (388, 14657), (397, 14714), (400, 14732), (404, 14765), (405, 14777), (414, 14825), (422, 14906), (423, 14909), (451, 15026), (463, 15119), (477, 15197), (490, 15296), (493, 15320), (507, 15395), (540, 15854), (542, 15866), (548, 15935), (549, 15944), (581, 16136), (582, 16154), (589, 16190), (591, 16199), (602, 16265), (603, 16271), (605, 16286), (606, 16298),

Gene: Lemuria_16 Start: 10811, Stop: 14821, Start Num: 15

Candidate Starts for Lemuria_16:

(Start: 15 @10811 has 38 MA's), (26, 10907), (32, 11012), (34, 11021), (60, 11144), (64, 11168), (65, 11171), (73, 11204), (74, 11207), (80, 11258), (85, 11285), (91, 11327), (98, 11372), (107, 11408), (109, 11417), (110, 11420), (111, 11423), (125, 11489), (133, 11546), (137, 11588), (145, 11639), (154, 11699), (156, 11711), (158, 11723), (161, 11732), (172, 11813), (189, 11942), (197, 11990),

(204, 12020), (207, 12032), (209, 12041), (214, 12083), (223, 12143), (227, 12161), (231, 12176), (236, 12197), (242, 12230), (250, 12257), (253, 12269), (260, 12302), (266, 12326), (268, 12344), (272, 12365), (289, 12461), (298, 12533), (324, 12791), (327, 12824), (343, 12908), (347, 12935), (352, 12968), (357, 12998), (364, 13040), (366, 13046), (377, 13130), (385, 13184), (400, 13292), (420, 13451), (426, 13475), (429, 13490), (435, 13514), (459, 13625), (465, 13712), (466, 13715), (482, 13802), (484, 13811), (488, 13868), (492, 13901), (502, 13955), (510, 13982), (522, 14096), (536, 14324), (538, 14390), (542, 14426), (546, 14483), (548, 14495), (557, 14573), (564, 14612), (573, 14639), (588, 14747),

Gene: Leston_19 Start: 12267, Stop: 16376, Start Num: 13

Candidate Starts for Leston_19:

(Start: 13 @12267 has 20 MA's), (39, 12525), (59, 12609), (75, 12675), (80, 12723), (89, 12783), (90, 12795), (95, 12816), (103, 12870), (110, 12900), (124, 12963), (127, 12984), (134, 13041), (143, 13101), (155, 13179), (159, 13203), (165, 13245), (169, 13278), (190, 13437), (194, 13458), (213, 13536), (222, 13599), (225, 13614), (226, 13617), (228, 13626), (229, 13632), (232, 13644), (238, 13680), (241, 13698), (266, 13800), (272, 13839), (296, 13992), (302, 14034), (307, 14058), (316, 14148), (317, 14181), (323, 14247), (332, 14322), (334, 14331), (338, 14349), (343, 14376), (354, 14454), (369, 14538), (386, 14661), (392, 14727), (410, 14829), (422, 14922), (428, 14952), (434, 14979), (436, 14985), (447, 15036), (448, 15057), (452, 15072), (453, 15078), (463, 15162), (467, 15192), (471, 15210), (480, 15249), (486, 15309), (491, 15342), (496, 15363), (499, 15387), (505, 15420), (516, 15504), (522, 15576), (540, 15885), (544, 15939), (546, 15954), (548, 15966), (553, 15996), (583, 16182), (587, 16206), (589, 16218), (604, 16305), (606, 16329),

Gene: Liefie_16 Start: 11463, Stop: 15476, Start Num: 14

Candidate Starts for Liefie_16:

(Start: 14 @11463 has 171 MA's), (32, 11664), (51, 11766), (53, 11778), (63, 11820), (67, 11841), (70, 11850), (90, 11985), (93, 11997), (95, 12006), (130, 12195), (132, 12213), (133, 12216), (135, 12237), (136, 12249), (147, 12321), (155, 12369), (173, 12501), (175, 12525), (186, 12606), (211, 12729), (222, 12813), (230, 12849), (238, 12894), (239, 12900), (264, 13008), (268, 13032), (272, 13053), (307, 13272), (320, 13422), (328, 13509), (347, 13617), (369, 13752), (383, 13857), (384, 13863), (387, 13881), (390, 13911), (420, 14133), (426, 14157), (429, 14172), (433, 14193), (447, 14247), (458, 14307), (466, 14397), (472, 14430), (484, 14493), (488, 14550), (492, 14583), (495, 14592), (542, 15096), (543, 15123), (546, 15153), (548, 15165), (549, 15174), (561, 15243), (577, 15324), (585, 15384), (588, 15402), (590, 15411),

Gene: LilPharaoh_17 Start: 11327, Stop: 15460, Start Num: 14

Candidate Starts for LilPharaoh_17:

(10, 11288), (Start: 14 @11327 has 171 MA's), (23, 11396), (29, 11483), (37, 11561), (59, 11669), (63, 11690), (71, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (132, 12083), (143, 12161), (155, 12239), (159, 12263), (190, 12497), (208, 12578), (215, 12638), (224, 12695), (233, 12731), (238, 12764), (243, 12788), (260, 12854), (262, 12863), (272, 12923), (291, 13031), (296, 13076), (316, 13232), (324, 13343), (325, 13352), (326, 13364), (334, 13415), (338, 13433), (343, 13460), (348, 13490), (362, 13583), (369, 13622), (391, 13790), (400, 13844), (404, 13877), (412, 13922), (422, 14003), (423, 14006), (442, 14090), (444, 14096), (445, 14105), (451, 14147), (460, 14183), (461, 14201), (463, 14240), (473, 14300), (493, 14441), (505, 14501), (507, 14516), (534, 14858), (548, 15047), (549, 15056), (559, 15119), (603, 15395),

Gene: LindNT_21 Start: 12047, Stop: 15883, Start Num: 14

Candidate Starts for LindNT_21:

(Start: 14 @12047 has 171 MA's), (23, 12116), (29, 12203), (57, 12383), (63, 12410), (80, 12503), (89, 12563), (90, 12575), (103, 12650), (115, 12701), (124, 12743), (127, 12764), (132, 12803), (143, 12881), (155, 12959), (159, 12983), (176, 13124), (190, 13217), (192, 13226), (194, 13238), (195, 13247), (238, 13484), (243, 13508), (248, 13523), (257, 13556), (272, 13643), (278, 13667), (291,

13751), (301, 13835), (304, 13847), (308, 13868), (315, 13949), (369, 14024), (379, 14105), (387, 14153), (388, 14171), (390, 14183), (391, 14192), (397, 14228), (404, 14279), (413, 14336), (422, 14414), (424, 14423), (442, 14501), (445, 14516), (451, 14558), (461, 14612), (493, 14852), (507, 14927), (520, 15038), (532, 15257), (534, 15269), (540, 15371), (548, 15452), (549, 15461), (561, 15533), (568, 15563), (572, 15584), (587, 15704), (600, 15776), (602, 15794), (603, 15800),

Gene: Llorens_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Llorens_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: LouisV14_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for LouisV14_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Lunahalos_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Lunahalos_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: MOOREtheMARYer_16 Start: 11710, Stop: 15720, Start Num: 15

Candidate Starts for MOOREtheMARYer_16:

(Start: 15 @11710 has 38 MA's), (26, 11806), (45, 11986), (52, 12016), (58, 12040), (62, 12061), (66, 12079), (82, 12175), (84, 12181), (86, 12196), (88, 12208), (91, 12226), (97, 12268), (98, 12271), (107, 12307), (110, 12319), (117, 12349), (119, 12361), (121, 12370), (133, 12445), (137, 12487), (140, 12502), (145, 12538), (147, 12553), (155, 12601), (156, 12610), (172, 12712), (183, 12796), (191, 12853), (197, 12895), (205, 12928), (206, 12931), (207, 12937), (209, 12946), (214, 12988), (226, 13060), (227, 13066), (231, 13081), (235, 13099), (236, 13102), (250, 13162), (260, 13207), (266, 13231), (268, 13249), (272, 13270), (278, 13294), (280, 13306), (281, 13309), (289, 13366), (298, 13438), (304, 13480), (320, 13645), (328, 13732), (332, 13759), (336, 13780), (348, 13843), (355, 13894), (366, 13951), (369, 13975), (375, 14026), (382, 14068), (400, 14197), (417, 14287), (418,

14302), (419, 14305), (426, 14371), (429, 14386), (446, 14452), (456, 14506), (459, 14521), (464, 14602), (466, 14611), (484, 14704), (488, 14761), (492, 14794), (502, 14848), (506, 14869), (542, 15325), (543, 15352), (545, 15379), (548, 15394), (549, 15403), (558, 15490), (585, 15628), (588, 15646), (591, 15661),

Gene: MacKat_21 Start: 12093, Stop: 15926, Start Num: 14

Candidate Starts for MacKat_21:

(Start: 14 @12093 has 171 MA's), (23, 12162), (29, 12249), (57, 12426), (63, 12453), (79, 12537), (80, 12546), (90, 12618), (103, 12693), (122, 12777), (124, 12786), (127, 12807), (132, 12846), (143, 12924), (155, 13002), (167, 13092), (176, 13167), (190, 13260), (192, 13269), (194, 13281), (195, 13290), (238, 13527), (248, 13566), (257, 13599), (272, 13686), (278, 13710), (291, 13794), (301, 13878), (304, 13890), (308, 13911), (369, 14067), (379, 14148), (383, 14172), (387, 14196), (388, 14214), (391, 14235), (397, 14271), (404, 14322), (413, 14379), (422, 14457), (424, 14466), (442, 14544), (445, 14559), (451, 14601), (461, 14655), (493, 14895), (507, 14970), (520, 15081), (532, 15300), (534, 15312), (548, 15495), (549, 15504), (561, 15576), (568, 15606), (572, 15627), (587, 15747), (600, 15819), (602, 15837), (603, 15843),

Gene: MacnCheese_21 Start: 12433, Stop: 16590, Start Num: 14

Candidate Starts for MacnCheese_21:

(4, 12283), (Start: 14 @12433 has 171 MA's), (24, 12523), (26, 12529), (29, 12589), (53, 12751), (71, 12826), (79, 12877), (80, 12886), (89, 12946), (90, 12958), (95, 12979), (103, 13033), (124, 13126), (127, 13147), (132, 13186), (135, 13210), (143, 13264), (150, 13309), (155, 13342), (159, 13366), (182, 13540), (194, 13621), (224, 13798), (234, 13843), (238, 13867), (242, 13888), (256, 13936), (264, 13981), (268, 14005), (272, 14026), (286, 14104), (295, 14182), (302, 14242), (303, 14245), (306, 14260), (325, 14476), (331, 14524), (340, 14566), (343, 14584), (348, 14614), (349, 14635), (352, 14644), (357, 14674), (369, 14746), (373, 14776), (388, 14893), (391, 14914), (397, 14950), (400, 14968), (404, 15001), (410, 15046), (414, 15061), (422, 15142), (423, 15145), (439, 15214), (442, 15229), (444, 15235), (445, 15244), (461, 15340), (463, 15379), (490, 15556), (493, 15580), (507, 15655), (537, 16069), (540, 16099), (541, 16108), (542, 16111), (549, 16189), (552, 16207), (553, 16210), (581, 16384), (582, 16402), (591, 16447), (598, 16480), (603, 16516), (605, 16531), (606, 16543),

Gene: Maliketh_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Maliketh_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: MarkPhew_21 Start: 10973, Stop: 15046, Start Num: 15

Candidate Starts for MarkPhew_21:

(2, 10757), (9, 10937), (Start: 15 @10973 has 38 MA's), (26, 11066), (38, 11198), (42, 11225), (43, 11234), (58, 11297), (66, 11336), (70, 11351), (80, 11414), (81, 11426), (88, 11465), (104, 11558), (106, 11570), (118, 11624), (137, 11741), (140, 11756), (145, 11792), (154, 11852), (155, 11855), (163, 11897), (172, 11966), (197, 12149), (209, 12200), (210, 12212), (223, 12302), (226, 12314), (227, 12320), (231, 12335), (239, 12374), (270, 12512), (272, 12524), (273, 12530), (277, 12545), (279, 12551), (325, 12869), (331, 12917), (334, 12932), (343, 12977), (348, 13007), (355, 13058), (358, 13079), (366, 13115), (369, 13139), (391, 13307), (397, 13343), (400, 13361), (404, 13394),

(413, 13451), (422, 13529), (423, 13532), (442, 13616), (461, 13727), (463, 13766), (483, 13871), (493, 13967), (507, 14042), (532, 14390), (548, 14588), (587, 14876), (589, 14888), (600, 14960), (603, 14981),

Gene: Marmie_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Marmie_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Marshawn_22 Start: 11657, Stop: 15661, Start Num: 15

Candidate Starts for Marshawn_22:

(1, 11312), (2, 11444), (9, 11621), (Start: 15 @11657 has 38 MA's), (19, 11681), (26, 11750), (42, 11909), (43, 11918), (56, 11975), (79, 12089), (80, 12098), (81, 12110), (86, 12137), (88, 12149), (92, 12170), (105, 12251), (118, 12308), (125, 12338), (137, 12425), (140, 12440), (141, 12449), (145, 12476), (155, 12539), (156, 12548), (172, 12650), (181, 12725), (197, 12833), (205, 12866), (212, 12908), (214, 12926), (223, 12986), (226, 12998), (227, 13004), (231, 13019), (235, 13037), (236, 13040), (239, 13058), (242, 13073), (252, 13109), (262, 13154), (264, 13163), (267, 13178), (270, 13196), (272, 13208), (273, 13214), (277, 13229), (279, 13235), (303, 13322), (315, 13430), (325, 13553), (334, 13616), (343, 13661), (348, 13691), (355, 13742), (366, 13799), (369, 13823), (379, 13904), (387, 13952), (391, 13991), (397, 14027), (404, 14078), (422, 14219), (423, 14222), (442, 14306), (445, 14321), (451, 14363), (463, 14456), (493, 14657), (507, 14732), (517, 14810), (530, 15026), (532, 15083), (542, 15212), (543, 15239), (548, 15281), (561, 15371), (562, 15383), (575, 15422), (596, 15548), (599, 15572), (600, 15575), (603, 15596),

Gene: McMater_21 Start: 11128, Stop: 15282, Start Num: 15

Candidate Starts for McMater_21:

(9, 11086), (Start: 15 @11128 has 38 MA's), (26, 11221), (42, 11380), (47, 11407), (67, 11497), (68, 11500), (82, 11587), (99, 11695), (116, 11764), (119, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (145, 11959), (155, 12022), (163, 12064), (172, 12133), (179, 12196), (180, 12205), (197, 12319), (198, 12325), (207, 12361), (209, 12370), (210, 12382), (212, 12394), (214, 12412), (223, 12472), (226, 12484), (227, 12490), (231, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (253, 12598), (266, 12655), (267, 12664), (272, 12694), (277, 12715), (283, 12745), (287, 12778), (298, 12862), (301, 12892), (304, 12904), (315, 13006), (321, 13084), (325, 13129), (327, 13153), (337, 13207), (338, 13210), (341, 13225), (348, 13267), (351, 13294), (353, 13303), (355, 13318), (356, 13324), (357, 13327), (378, 13468), (383, 13504), (384, 13510), (387, 13528), (389, 13555), (391, 13567), (400, 13621), (404, 13654), (414, 13714), (422, 13795), (423, 13798), (442, 13882), (445, 13897), (463, 14032), (475, 14098), (493, 14233), (530, 14584), (548, 14839), (549, 14848), (556, 14914), (587, 15109), (591, 15130), (600, 15181), (602, 15199), (603, 15205), (607, 15244),

Gene: Mdavu_17 Start: 11315, Stop: 15448, Start Num: 14

Candidate Starts for Mdavu_17:

(10, 11276), (Start: 14 @11315 has 171 MA's), (23, 11384), (29, 11471), (37, 11549), (59, 11657), (63, 11678), (71, 11711), (90, 11843), (94, 11858), (95, 11864), (103, 11918), (110, 11948), (124, 12011), (127, 12032), (132, 12071), (143, 12149), (155, 12227), (159, 12251), (190, 12485), (208, 12566), (215, 12626), (224, 12683), (233, 12719), (238, 12752), (243, 12776), (260, 12842), (262, 12851),

(272, 12911), (291, 13019), (296, 13064), (316, 13220), (324, 13331), (325, 13340), (326, 13352), (334, 13403), (338, 13421), (343, 13448), (348, 13478), (362, 13571), (369, 13610), (391, 13778), (400, 13832), (404, 13865), (412, 13910), (422, 13991), (423, 13994), (442, 14078), (444, 14084), (445, 14093), (451, 14135), (460, 14171), (461, 14189), (463, 14228), (473, 14288), (493, 14429), (505, 14489), (507, 14504), (534, 14846), (548, 15035), (549, 15044), (559, 15107), (603, 15383),

Gene: MeaningOfLife_21 Start: 12052, Stop: 15885, Start Num: 14

Candidate Starts for MeaningOfLife_21:

(Start: 14 @12052 has 171 MA's), (23, 12121), (24, 12142), (29, 12208), (57, 12385), (63, 12412), (78, 12484), (79, 12496), (80, 12505), (90, 12577), (103, 12652), (122, 12736), (124, 12745), (127, 12766), (132, 12805), (143, 12883), (155, 12961), (167, 13051), (176, 13126), (190, 13219), (192, 13228), (194, 13240), (195, 13249), (238, 13486), (248, 13525), (257, 13558), (272, 13645), (278, 13669), (291, 13753), (301, 13837), (304, 13849), (308, 13870), (369, 14026), (379, 14107), (387, 14155), (388, 14173), (391, 14194), (397, 14230), (404, 14281), (413, 14338), (422, 14416), (424, 14425), (442, 14503), (445, 14518), (451, 14560), (461, 14614), (493, 14854), (507, 14929), (520, 15040), (532, 15259), (534, 15271), (548, 15454), (549, 15463), (561, 15535), (568, 15565), (572, 15586), (587, 15706), (600, 15778), (602, 15796), (603, 15802),

Gene: Megsy_21 Start: 12050, Stop: 15886, Start Num: 14

Candidate Starts for Megsy_21:

(Start: 14 @12050 has 171 MA's), (23, 12119), (29, 12206), (57, 12386), (63, 12413), (80, 12506), (89, 12566), (90, 12578), (103, 12653), (115, 12704), (124, 12746), (127, 12767), (132, 12806), (143, 12884), (155, 12962), (159, 12986), (176, 13127), (190, 13220), (192, 13229), (194, 13241), (195, 13250), (238, 13487), (243, 13511), (248, 13526), (257, 13559), (272, 13646), (278, 13670), (291, 13754), (301, 13838), (304, 13850), (308, 13871), (315, 13952), (369, 14027), (379, 14108), (387, 14156), (388, 14174), (390, 14186), (391, 14195), (397, 14231), (404, 14282), (413, 14339), (422, 14417), (424, 14426), (442, 14504), (445, 14519), (461, 14615), (493, 14855), (507, 14930), (520, 15041), (532, 15260), (534, 15272), (540, 15374), (548, 15455), (549, 15464), (561, 15536), (568, 15566), (572, 15587), (587, 15707), (600, 15779), (602, 15797), (603, 15803),

Gene: Mercurio_17 Start: 11458, Stop: 15474, Start Num: 15

Candidate Starts for Mercurio_17:

(Start: 15 @11458 has 38 MA's), (43, 11725), (60, 11791), (64, 11815), (65, 11818), (70, 11842), (73, 11851), (74, 11854), (80, 11905), (85, 11932), (91, 11974), (98, 12019), (102, 12037), (104, 12040), (110, 12067), (120, 12115), (125, 12136), (133, 12193), (137, 12235), (144, 12280), (145, 12286), (155, 12349), (156, 12358), (158, 12370), (161, 12379), (172, 12460), (197, 12637), (204, 12667), (205, 12670), (209, 12688), (210, 12700), (214, 12730), (219, 12757), (223, 12790), (227, 12808), (231, 12823), (236, 12844), (242, 12877), (250, 12904), (260, 12949), (266, 12973), (268, 12991), (272, 13012), (289, 13108), (295, 13153), (298, 13180), (312, 13309), (324, 13438), (343, 13555), (347, 13582), (352, 13615), (365, 13690), (366, 13693), (377, 13777), (382, 13810), (389, 13873), (420, 14098), (426, 14122), (429, 14137), (435, 14161), (459, 14272), (464, 14353), (466, 14362), (484, 14455), (488, 14512), (492, 14545), (497, 14560), (546, 15139), (548, 15151), (550, 15166), (558, 15238), (573, 15289), (588, 15397),

Gene: Miryou_19 Start: 12115, Stop: 16230, Start Num: 13

Candidate Starts for Miryou_19:

(Start: 13 @12115 has 20 MA's), (39, 12373), (59, 12457), (75, 12523), (80, 12571), (89, 12631), (90, 12643), (95, 12664), (103, 12718), (110, 12748), (124, 12811), (127, 12832), (134, 12889), (143, 12949), (149, 12991), (155, 13027), (159, 13051), (165, 13093), (169, 13126), (190, 13285), (194, 13306), (213, 13384), (222, 13447), (225, 13462), (226, 13465), (228, 13474), (229, 13480), (232, 13492), (238, 13528), (241, 13546), (266, 13648), (272, 13687), (296, 13840), (302, 13882), (307, 13906), (316, 13996), (317, 14029), (323, 14095), (332, 14170), (334, 14179), (338, 14197), (343, 14224), (354, 14302), (369, 14386), (386, 14509), (392, 14575), (410, 14677), (422, 14770), (428,

14800), (434, 14827), (436, 14833), (447, 14884), (448, 14905), (452, 14920), (453, 14926), (463, 15010), (467, 15040), (471, 15058), (480, 15097), (486, 15157), (491, 15190), (496, 15211), (499, 15235), (505, 15268), (516, 15352), (522, 15424), (540, 15739), (544, 15793), (546, 15808), (548, 15820), (553, 15850), (583, 16036), (589, 16072), (604, 16159), (606, 16183),

Gene: Mowgli_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Mowgli_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Murucutumbu_21 Start: 12036, Stop: 15869, Start Num: 14

Candidate Starts for Murucutumbu_21:

(Start: 14 @12036 has 171 MA's), (23, 12105), (29, 12192), (57, 12372), (63, 12399), (79, 12483), (80, 12492), (89, 12552), (90, 12564), (103, 12639), (113, 12681), (122, 12723), (124, 12732), (127, 12753), (132, 12792), (143, 12870), (155, 12948), (176, 13113), (190, 13206), (194, 13227), (195, 13236), (238, 13473), (243, 13497), (248, 13512), (257, 13545), (272, 13632), (291, 13740), (301, 13824), (304, 13836), (308, 13857), (315, 13938), (369, 14013), (379, 14094), (381, 14103), (387, 14142), (388, 14160), (391, 14181), (397, 14217), (404, 14268), (413, 14325), (422, 14403), (424, 14412), (442, 14490), (445, 14505), (451, 14547), (461, 14601), (493, 14841), (507, 14916), (520, 15027), (532, 15246), (540, 15360), (548, 15441), (549, 15450), (561, 15522), (568, 15552), (572, 15573), (587, 15690), (600, 15762), (603, 15786),

Gene: Mynx_21 Start: 12099, Stop: 15932, Start Num: 14

Candidate Starts for Mynx_21:

(Start: 14 @12099 has 171 MA's), (23, 12168), (29, 12255), (57, 12432), (63, 12459), (78, 12531), (79, 12543), (80, 12552), (90, 12624), (103, 12699), (122, 12783), (124, 12792), (127, 12813), (132, 12852), (143, 12930), (155, 13008), (167, 13098), (176, 13173), (190, 13266), (192, 13275), (194, 13287), (195, 13296), (238, 13533), (248, 13572), (257, 13605), (272, 13692), (278, 13716), (291, 13800), (301, 13884), (304, 13896), (308, 13917), (369, 14073), (379, 14154), (387, 14202), (388, 14220), (391, 14241), (397, 14277), (404, 14328), (413, 14385), (422, 14463), (424, 14472), (442, 14550), (445, 14565), (451, 14607), (461, 14661), (493, 14901), (507, 14976), (520, 15087), (532, 15306), (534, 15318), (548, 15501), (549, 15510), (561, 15582), (568, 15612), (572, 15633), (587, 15753), (600, 15825), (602, 15843), (603, 15849),

Gene: Neighly_19 Start: 11979, Stop: 16091, Start Num: 13

Candidate Starts for Neighly_19:

(Start: 13 @11979 has 20 MA's), (24, 12072), (30, 12150), (31, 12174), (39, 12234), (59, 12318), (80, 12432), (89, 12492), (90, 12504), (95, 12525), (103, 12579), (114, 12627), (124, 12672), (127, 12693), (143, 12810), (155, 12888), (159, 12912), (167, 12978), (176, 13053), (190, 13146), (195, 13176), (226, 13350), (234, 13389), (238, 13413), (242, 13434), (259, 13494), (272, 13572), (288, 13659), (296, 13725), (302, 13767), (304, 13776), (311, 13860), (316, 13881), (317, 13914), (323, 13980), (325, 14001), (332, 14055), (334, 14064), (338, 14082), (343, 14109), (348, 14139), (353, 14175), (368, 14265), (369, 14271), (371, 14289), (386, 14394), (392, 14460), (422, 14655), (428, 14685), (436, 14718), (447, 14769), (448, 14790), (452, 14805), (453, 14811), (463, 14895), (471, 14943), (480, 14982), (486, 15042), (491, 15075), (496, 15096), (499, 15120), (505, 15150), (516, 15216), (522, 15288), (540, 15603), (541, 15612), (542, 15615), (543, 15642), (544, 15657), (546, 15672),

(548, 15684), (553, 15714), (561, 15768), (566, 15786), (577, 15855), (583, 15903), (587, 15927), (589, 15939), (591, 15948), (604, 16020), (606, 16044), (611, 16083),

Gene: Neoh_16 Start: 11456, Stop: 15469, Start Num: 14

Candidate Starts for Neoh_16:

(Start: 14 @11456 has 171 MA's), (32, 11657), (53, 11771), (63, 11813), (70, 11843), (90, 11978), (93, 11990), (95, 11999), (130, 12188), (132, 12206), (133, 12209), (135, 12230), (136, 12242), (147, 12314), (155, 12362), (173, 12494), (175, 12518), (186, 12599), (211, 12722), (222, 12806), (230, 12842), (238, 12887), (239, 12893), (264, 13001), (268, 13025), (272, 13046), (307, 13265), (320, 13415), (328, 13502), (347, 13610), (369, 13745), (384, 13856), (387, 13874), (390, 13904), (420, 14126), (426, 14150), (429, 14165), (433, 14186), (442, 14213), (447, 14240), (458, 14300), (466, 14390), (472, 14423), (484, 14486), (488, 14543), (492, 14576), (495, 14585), (542, 15089), (543, 15116), (546, 15146), (548, 15158), (549, 15167), (561, 15236), (577, 15317), (585, 15377), (588, 15395), (590, 15404),

Gene: Nibb_20 Start: 11122, Stop: 15189, Start Num: 15

Candidate Starts for Nibb_20:

(9, 11086), (Start: 15 @11122 has 38 MA's), (38, 11347), (42, 11374), (43, 11383), (66, 11485), (88, 11614), (104, 11707), (106, 11719), (118, 11773), (125, 11803), (137, 11890), (140, 11905), (154, 12001), (155, 12004), (163, 12046), (172, 12115), (197, 12298), (209, 12349), (210, 12361), (214, 12391), (223, 12451), (226, 12463), (227, 12469), (231, 12484), (235, 12502), (236, 12505), (268, 12652), (270, 12661), (272, 12673), (273, 12679), (277, 12694), (279, 12700), (302, 12784), (309, 12853), (325, 13018), (331, 13066), (343, 13126), (348, 13156), (355, 13207), (358, 13228), (366, 13264), (373, 13318), (391, 13456), (400, 13510), (404, 13543), (408, 13561), (413, 13600), (422, 13678), (423, 13681), (442, 13765), (451, 13822), (460, 13858), (461, 13876), (463, 13915), (493, 14116), (501, 14158), (507, 14191), (532, 14533), (548, 14731), (587, 15019), (589, 15031), (600, 15103), (603, 15124),

Gene: Nikao_17 Start: 11327, Stop: 15460, Start Num: 14

Candidate Starts for Nikao_17:

(10, 11288), (Start: 14 @11327 has 171 MA's), (23, 11396), (29, 11483), (37, 11561), (59, 11669), (63, 11690), (71, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (132, 12083), (143, 12161), (155, 12239), (159, 12263), (190, 12497), (208, 12578), (215, 12638), (224, 12695), (233, 12731), (238, 12764), (243, 12788), (260, 12854), (262, 12863), (272, 12923), (291, 13031), (296, 13076), (316, 13232), (324, 13343), (325, 13352), (326, 13364), (334, 13415), (338, 13433), (343, 13460), (348, 13490), (362, 13583), (369, 13622), (372, 13649), (391, 13790), (400, 13844), (404, 13877), (412, 13922), (422, 14003), (423, 14006), (442, 14090), (444, 14096), (445, 14105), (451, 14147), (460, 14183), (461, 14201), (463, 14240), (473, 14300), (493, 14441), (505, 14501), (507, 14516), (534, 14858), (548, 15047), (549, 15056), (559, 15119), (603, 15395),

Gene: Niklas_21 Start: 11128, Stop: 15282, Start Num: 15

Candidate Starts for Niklas_21:

(9, 11086), (Start: 15 @11128 has 38 MA's), (26, 11221), (42, 11380), (47, 11407), (67, 11497), (68, 11500), (82, 11587), (99, 11695), (116, 11764), (119, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (145, 11959), (155, 12022), (163, 12064), (172, 12133), (179, 12196), (180, 12205), (197, 12319), (198, 12325), (207, 12361), (209, 12370), (210, 12382), (212, 12394), (214, 12412), (223, 12472), (226, 12484), (227, 12490), (231, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (253, 12598), (266, 12655), (267, 12664), (272, 12694), (277, 12715), (283, 12745), (287, 12778), (298, 12862), (301, 12892), (304, 12904), (315, 13006), (321, 13084), (325, 13129), (327, 13153), (337, 13207), (338, 13210), (341, 13225), (348, 13267), (351, 13294), (353, 13303), (355, 13318), (356, 13324), (357, 13327), (378, 13468), (383, 13504), (384, 13510), (387, 13528), (389, 13555), (391, 13567), (400, 13621), (404, 13654), (414, 13714), (422, 13795), (423,

13798), (442, 13882), (445, 13897), (463, 14032), (475, 14098), (493, 14233), (530, 14584), (548, 14839), (549, 14848), (556, 14914), (587, 15109), (591, 15130), (600, 15181), (602, 15199), (603, 15205), (607, 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), (12, 10323), (17, 10344), (40, 10602), (46, 10635), (47, 10638), (55, 10671), (67, 10728), (72, 10743), (73, 10746), (80, 10800), (83, 10821), (86, 10839), (88, 10851), (92, 10872), (94, 10881), (97, 10911), (121, 11013), (123, 11022), (128, 11055), (138, 11121), (140, 11133), (141, 11142), (148, 11187), (153, 11220), (155, 11232), (160, 11259), (172, 11343), (181, 11418), (185, 11457), (194, 11502), (197, 11526), (207, 11568), (208, 11571), (209, 11577), (210, 11589), (217, 11634), (226, 11691), (227, 11697), (231, 11712), (235, 11730), (242, 11766), (247, 11784), (252, 11802), (259, 11829), (260, 11838), (268, 11880), (269, 11886), (277, 11922), (279, 11928), (284, 11961), (299, 11985), (301, 12009), (322, 12213), (325, 12246), (326, 12258), (331, 12294), (346, 12378), (348, 12384), (363, 12477), (370, 12519), (371, 12531), (372, 12540), (375, 12564), (379, 12597), (390, 12675), (392, 12705), (394, 12717), (395, 12726), (398, 12747), (404, 12801), (407, 12846), (417, 12921), (425, 12996), (431, 13032), (441, 13059), (442, 13068), (445, 13080), (449, 13116), (468, 13257), (470, 13266), (479, 13311), (485, 13344), (488, 13398), (492, 13431), (500, 13470), (504, 13491), (508, 13518), (518, 13599), (525, 13680), (526, 13692), (539, 13938), (543, 13983), (548, 14025), (552, 14052), (560, 14106), (564, 14127), (568, 14142), (569, 14148), (578, 14202), (579, 14208), (584, 14244), (592, 14301), (594, 14310),

Gene: November_19 Start: 12038, Stop: 16228, Start Num: 14

Candidate Starts for November_19:

(Start: 14 @12038 has 171 MA's), (23, 12107), (24, 12128), (29, 12194), (53, 12356), (71, 12431), (79, 12482), (80, 12491), (89, 12551), (90, 12563), (95, 12584), (103, 12638), (110, 12668), (124, 12731), (127, 12752), (132, 12791), (143, 12869), (155, 12947), (159, 12971), (166, 13025), (167, 13037), (175, 13103), (182, 13145), (186, 13184), (188, 13196), (194, 13226), (195, 13235), (217, 13349), (220, 13364), (228, 13418), (234, 13448), (238, 13472), (242, 13493), (256, 13541), (264, 13586), (265, 13589), (272, 13631), (277, 13652), (285, 13700), (290, 13757), (293, 13772), (295, 13787), (297, 13808), (299, 13820), (306, 13865), (316, 13961), (348, 14219), (349, 14240), (366, 14327), (369, 14351), (372, 14378), (373, 14381), (377, 14411), (384, 14462), (388, 14498), (404, 14606), (422, 14741), (423, 14744), (438, 14810), (440, 14816), (447, 14855), (457, 14927), (459, 14933), (461, 14954), (469, 15038), (476, 15068), (478, 15089), (481, 15101), (489, 15182), (494, 15215), (497, 15224), (498, 15230), (505, 15272), (509, 15290), (512, 15323), (513, 15329), (532, 15617), (540, 15731), (541, 15740), (542, 15743), (548, 15812), (572, 15947), (587, 16067), (603, 16163), (607, 16202),

Gene: Nutello_17 Start: 11327, Stop: 15460, Start Num: 14

Candidate Starts for Nutello_17:

(10, 11288), (Start: 14 @11327 has 171 MA's), (23, 11396), (29, 11483), (37, 11561), (59, 11669), (63, 11690), (71, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (132, 12083), (143, 12161), (155, 12239), (159, 12263), (190, 12497), (208, 12578), (215, 12638), (224, 12695), (233, 12731), (238, 12764), (243, 12788), (260, 12854), (262, 12863), (272, 12923), (291, 13031), (296, 13076), (316, 13232), (324, 13343), (325, 13352), (326, 13364), (334, 13415), (338, 13433), (343, 13460), (348, 13490), (362, 13583), (369, 13622), (391, 13790), (400, 13844), (404, 13877), (412, 13922), (422, 14003), (423, 14006), (442, 14090), (444, 14096), (445, 14105), (451, 14147), (460, 14183), (461, 14201), (463, 14240), (473, 14300), (493, 14441), (505, 14501), (507, 14516), (534, 14858), (548, 15047), (549, 15056), (559, 15119), (603, 15395),

Gene: OctaviousRex_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for OctaviousRex_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: OkiRoe_19 Start: 12137, Stop: 16246, Start Num: 13

Candidate Starts for OkiRoe_19:

(Start: 13 @12137 has 20 MA's), (39, 12395), (59, 12479), (75, 12545), (80, 12593), (89, 12653), (90, 12665), (95, 12686), (103, 12740), (110, 12770), (124, 12833), (127, 12854), (134, 12911), (143, 12971), (155, 13049), (159, 13073), (165, 13115), (169, 13148), (190, 13307), (194, 13328), (213, 13406), (222, 13469), (225, 13484), (226, 13487), (228, 13496), (229, 13502), (232, 13514), (241, 13568), (266, 13670), (272, 13709), (296, 13862), (302, 13904), (307, 13928), (316, 14018), (317, 14051), (332, 14192), (334, 14201), (338, 14219), (343, 14246), (354, 14324), (369, 14408), (386, 14531), (392, 14597), (410, 14699), (422, 14792), (428, 14822), (434, 14849), (436, 14855), (447, 14906), (448, 14927), (452, 14942), (453, 14948), (463, 15032), (471, 15080), (480, 15119), (486, 15179), (491, 15212), (496, 15233), (499, 15257), (505, 15290), (516, 15374), (522, 15446), (540, 15755), (544, 15809), (546, 15824), (548, 15836), (553, 15866), (583, 16052), (589, 16088), (604, 16175), (606, 16199),

Gene: Olga_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Olga_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Oscar_20 Start: 11083, Stop: 15156, Start Num: 15

Candidate Starts for Oscar_20:

(Start: 15 @11083 has 38 MA's), (26, 11176), (38, 11308), (66, 11446), (80, 11524), (81, 11536), (82, 11542), (88, 11575), (95, 11611), (104, 11668), (106, 11680), (118, 11734), (125, 11764), (137, 11851), (140, 11866), (145, 11902), (161, 11995), (172, 12076), (197, 12259), (199, 12268), (209, 12310), (214, 12352), (223, 12412), (226, 12424), (227, 12430), (231, 12445), (236, 12466), (242, 12499), (270, 12622), (272, 12634), (273, 12640), (277, 12655), (279, 12661), (302, 12745), (310, 12826), (325, 12979), (341, 13075), (343, 13087), (348, 13117), (355, 13168), (358, 13189), (364, 13219), (366, 13225), (369, 13249), (377, 13309), (384, 13360), (389, 13405), (391, 13417), (400, 13471), (404, 13504), (413, 13561), (422, 13639), (423, 13642), (442, 13726), (447, 13753), (451, 13783), (461, 13837), (463, 13876), (493, 14077), (501, 14119), (507, 14152), (509, 14158), (530, 14437), (532, 14494), (548, 14695), (562, 14809), (587, 14986), (600, 15070), (603, 15091),

Gene: Padfoot_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Padfoot_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830),

(132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Padpat_21 Start: 12076, Stop: 15909, Start Num: 14

Candidate Starts for Padpat_21:

(Start: 14 @12076 has 171 MA's), (23, 12145), (29, 12232), (37, 12307), (57, 12409), (63, 12436), (78, 12508), (79, 12520), (80, 12529), (90, 12601), (103, 12676), (122, 12760), (124, 12769), (127, 12790), (132, 12829), (143, 12907), (155, 12985), (167, 13075), (176, 13150), (190, 13243), (192, 13252), (194, 13264), (195, 13273), (238, 13510), (248, 13549), (257, 13582), (272, 13669), (278, 13693), (291, 13777), (301, 13861), (304, 13873), (308, 13894), (369, 14050), (379, 14131), (387, 14179), (388, 14197), (391, 14218), (397, 14254), (404, 14305), (413, 14362), (422, 14440), (424, 14449), (442, 14527), (445, 14542), (451, 14584), (461, 14638), (493, 14878), (507, 14953), (520, 15064), (532, 15283), (534, 15295), (548, 15478), (549, 15487), (561, 15559), (568, 15589), (572, 15610), (587, 15730), (600, 15802), (602, 15820), (603, 15826),

Gene: Paola_19 Start: 12137, Stop: 16246, Start Num: 13

Candidate Starts for Paola_19:

(Start: 13 @12137 has 20 MA's), (39, 12395), (59, 12479), (75, 12545), (80, 12593), (89, 12653), (90, 12665), (95, 12686), (103, 12740), (110, 12770), (124, 12833), (127, 12854), (134, 12911), (143, 12971), (155, 13049), (159, 13073), (165, 13115), (169, 13148), (190, 13307), (194, 13328), (213, 13406), (222, 13469), (225, 13484), (226, 13487), (228, 13496), (229, 13502), (232, 13514), (238, 13550), (241, 13568), (266, 13670), (272, 13709), (296, 13862), (302, 13904), (307, 13928), (316, 14018), (317, 14051), (323, 14117), (332, 14192), (334, 14201), (338, 14219), (343, 14246), (354, 14324), (369, 14408), (386, 14531), (392, 14597), (410, 14699), (422, 14792), (428, 14822), (434, 14849), (436, 14855), (447, 14906), (448, 14927), (452, 14942), (453, 14948), (463, 15032), (467, 15062), (471, 15080), (480, 15119), (486, 15179), (491, 15212), (496, 15233), (499, 15257), (505, 15290), (516, 15374), (522, 15446), (540, 15755), (544, 15809), (546, 15824), (548, 15836), (553, 15866), (583, 16052), (587, 16076), (589, 16088), (604, 16175), (606, 16199),

Gene: Peanam_21 Start: 11128, Stop: 15282, Start Num: 15

Candidate Starts for Peanam_21:

(9, 11086), (Start: 15 @11128 has 38 MA's), (26, 11221), (42, 11380), (47, 11407), (67, 11497), (68, 11500), (82, 11587), (99, 11695), (116, 11764), (119, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (145, 11959), (155, 12022), (163, 12064), (172, 12133), (179, 12196), (180, 12205), (197, 12319), (198, 12325), (207, 12361), (209, 12370), (210, 12382), (212, 12394), (214, 12412), (223, 12472), (226, 12484), (227, 12490), (231, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (253, 12598), (266, 12655), (267, 12664), (272, 12694), (277, 12715), (283, 12745), (287, 12778), (298, 12862), (301, 12892), (304, 12904), (315, 13006), (321, 13084), (325, 13129), (327, 13153), (337, 13207), (338, 13210), (341, 13225), (348, 13267), (351, 13294), (353, 13303), (355, 13318), (356, 13324), (357, 13327), (378, 13468), (383, 13504), (384, 13510), (387, 13528), (389, 13555), (391, 13567), (400, 13621), (404, 13654), (414, 13714), (422, 13795), (423, 13798), (442, 13882), (445, 13897), (463, 14032), (475, 14098), (493, 14233), (530, 14584), (548, 14839), (549, 14848), (556, 14914), (587, 15109), (591, 15130), (600, 15181), (602, 15199), (603, 15205), (607, 15244),

Gene: Peeb_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Peeb_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Peel_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Peel_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Periodt_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Periodt_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Pharb_20 Start: 12014, Stop: 16198, Start Num: 14

Candidate Starts for Pharb_20:

(8, 11966), (Start: 14 @12014 has 171 MA's), (23, 12083), (24, 12104), (26, 12110), (29, 12170), (59, 12353), (61, 12365), (63, 12374), (79, 12458), (89, 12527), (90, 12539), (95, 12560), (103, 12614), (110, 12644), (124, 12707), (127, 12728), (132, 12767), (143, 12845), (155, 12923), (159, 12947), (182, 13121), (187, 13169), (190, 13181), (194, 13202), (195, 13211), (218, 13331), (229, 13400), (233, 13415), (238, 13448), (242, 13469), (244, 13478), (254, 13508), (257, 13520), (264, 13562), (265, 13565), (266, 13568), (272, 13607), (286, 13685), (295, 13763), (299, 13796), (303, 13826), (310, 13904), (319, 13994), (322, 14024), (325, 14057), (340, 14147), (348, 14195), (369, 14327), (373, 14357), (384, 14438), (388, 14474), (397, 14531), (400, 14549), (404, 14582), (414, 14642), (422, 14723), (430, 14762), (439, 14795), (442, 14810), (444, 14816), (445, 14825), (451, 14867), (461, 14921), (463, 14960), (477, 15038), (493, 15161), (507, 15236), (524, 15425), (537, 15665), (540, 15695), (542, 15707), (549, 15785), (570, 15914), (582, 16001), (583, 16004), (589, 16037), (598, 16082), (603, 16118), (605, 16133), (606, 16145), (609, 16181),

Gene: PhelpsODU_20 Start: 11123, Stop: 15124, Start Num: 15

Candidate Starts for PhelpsODU_20:

(Start: 15 @11123 has 38 MA's), (26, 11216), (33, 11321), (42, 11375), (45, 11393), (50, 11411), (55, 11435), (56, 11441), (62, 11468), (64, 11474), (66, 11486), (76, 11519), (88, 11615), (91, 11633), (92,

11636), (116, 11750), (118, 11765), (137, 11882), (152, 11978), (158, 12017), (163, 12038), (164, 12047), (172, 12107), (197, 12290), (198, 12296), (199, 12299), (210, 12353), (214, 12383), (223, 12443), (226, 12455), (227, 12461), (231, 12476), (236, 12497), (239, 12515), (270, 12653), (272, 12665), (277, 12686), (284, 12725), (303, 12779), (304, 12785), (315, 12887), (319, 12947), (325, 13010), (338, 13091), (341, 13106), (342, 13109), (348, 13148), (353, 13184), (355, 13199), (356, 13205), (360, 13232), (366, 13256), (375, 13331), (384, 13391), (391, 13448), (397, 13484), (404, 13535), (422, 13676), (423, 13679), (442, 13763), (447, 13790), (461, 13874), (463, 13913), (493, 14114), (507, 14189), (528, 14408), (533, 14522), (540, 14624), (541, 14633), (548, 14705), (561, 14789), (568, 14819), (572, 14840), (587, 14957), (600, 15032), (605, 15071), (606, 15083),

Gene: Phish_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Phish_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Phloodle_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Phloodle_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Phrank_20 Start: 11071, Stop: 15072, Start Num: 15

Candidate Starts for Phrank_20:

(Start: 15 @11071 has 38 MA's), (26, 11164), (33, 11269), (38, 11296), (42, 11323), (45, 11341), (50, 11359), (55, 11383), (56, 11389), (62, 11416), (64, 11422), (73, 11458), (76, 11467), (78, 11491), (88, 11563), (91, 11581), (92, 11584), (118, 11713), (137, 11830), (152, 11926), (158, 11965), (164, 11995), (172, 12055), (197, 12238), (198, 12244), (199, 12247), (210, 12301), (214, 12331), (223, 12391), (226, 12403), (227, 12409), (231, 12424), (236, 12445), (239, 12463), (270, 12601), (272, 12613), (277, 12634), (284, 12673), (303, 12727), (304, 12733), (319, 12895), (325, 12958), (338, 13039), (341, 13054), (348, 13096), (355, 13147), (358, 13168), (364, 13198), (366, 13204), (369, 13228), (375, 13279), (384, 13339), (391, 13396), (397, 13432), (400, 13450), (404, 13483), (422, 13624), (423, 13627), (442, 13711), (447, 13738), (461, 13822), (493, 14062), (507, 14137), (533, 14470), (540, 14572), (541, 14581), (548, 14653), (561, 14737), (568, 14767), (572, 14788), (587, 14905), (600, 14980), (605, 15019), (606, 15031),

Gene: Phreak_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Phreak_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230,

12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Piatt_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Piatt_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: PinkYoshi_16 Start: 11455, Stop: 15468, Start Num: 14

Candidate Starts for PinkYoshi_16:

(Start: 14 @11455 has 171 MA's), (32, 11656), (53, 11770), (63, 11812), (70, 11842), (90, 11977), (93, 11989), (95, 11998), (130, 12187), (132, 12205), (133, 12208), (135, 12229), (136, 12241), (147, 12313), (155, 12361), (173, 12493), (175, 12517), (186, 12598), (211, 12721), (222, 12805), (230, 12841), (238, 12886), (239, 12892), (264, 13000), (268, 13024), (272, 13045), (307, 13264), (320, 13414), (328, 13501), (347, 13609), (369, 13744), (384, 13855), (387, 13873), (390, 13903), (420, 14125), (426, 14149), (429, 14164), (433, 14185), (442, 14212), (447, 14239), (458, 14299), (466, 14389), (472, 14422), (484, 14485), (488, 14542), (492, 14575), (495, 14584), (542, 15088), (543, 15115), (546, 15145), (548, 15157), (549, 15166), (561, 15235), (577, 15316), (585, 15376), (588, 15394), (590, 15403),

Gene: Pinnie_17 Start: 12158, Stop: 16180, Start Num: 15

Candidate Starts for Pinnie_17:

(Start: 15 @12158 has 38 MA's), (21, 12203), (32, 12359), (33, 12362), (45, 12434), (50, 12452), (52, 12464), (62, 12509), (66, 12527), (82, 12623), (84, 12629), (86, 12644), (88, 12656), (91, 12674), (97, 12716), (98, 12719), (107, 12755), (110, 12767), (116, 12791), (117, 12797), (121, 12818), (133, 12893), (137, 12935), (140, 12950), (145, 12986), (147, 13001), (155, 13049), (156, 13058), (172, 13160), (191, 13301), (197, 13343), (204, 13373), (206, 13379), (207, 13385), (214, 13436), (226, 13508), (227, 13514), (231, 13529), (235, 13547), (236, 13550), (250, 13610), (260, 13655), (268, 13697), (272, 13718), (278, 13742), (280, 13754), (281, 13757), (289, 13814), (298, 13886), (304, 13928), (315, 14030), (320, 14093), (332, 14207), (336, 14228), (347, 14288), (355, 14342), (356, 14348), (366, 14399), (375, 14474), (382, 14516), (389, 14579), (417, 14744), (426, 14828), (429, 14843), (432, 14861), (435, 14867), (446, 14909), (447, 14918), (456, 14963), (459, 14978), (464, 15059), (466, 15068), (484, 15161), (488, 15218), (492, 15251), (502, 15305), (506, 15326), (542, 15785), (543, 15812), (545, 15839), (548, 15854), (549, 15863), (558, 15950), (585, 16088), (588, 16106), (595, 16145),

Gene: Pisa1_20 Start: 11833, Stop: 15987, Start Num: 14

Candidate Starts for Pisa1_20:

(Start: 14 @11833 has 171 MA's), (23, 11902), (29, 11989), (57, 12169), (59, 12175), (63, 12196), (71, 12229), (79, 12280), (80, 12289), (89, 12349), (90, 12361), (103, 12436), (115, 12487), (124, 12529), (127, 12550), (132, 12589), (143, 12667), (155, 12745), (166, 12823), (169, 12844), (170, 12850), (176, 12910), (190, 13003), (194, 13024), (195, 13033), (208, 13084), (216, 13147), (233, 13237),

(238, 13270), (258, 13348), (260, 13360), (262, 13369), (264, 13384), (265, 13387), (272, 13429), (288, 13516), (291, 13537), (301, 13621), (304, 13633), (315, 13735), (316, 13738), (325, 13858), (331, 13906), (333, 13915), (338, 13939), (342, 13957), (343, 13966), (348, 13996), (349, 14017), (356, 14053), (369, 14128), (378, 14197), (391, 14296), (397, 14332), (400, 14350), (404, 14383), (422, 14518), (424, 14527), (442, 14605), (445, 14620), (451, 14662), (461, 14716), (493, 14956), (507, 15031), (520, 15142), (523, 15184), (540, 15475), (548, 15556), (549, 15565), (561, 15637), (562, 15649), (568, 15667), (572, 15688), (587, 15808), (600, 15880), (602, 15898), (603, 15904),

Gene: Pisa4_20 Start: 11833, Stop: 15987, Start Num: 14

Candidate Starts for Pisa4_20:

(Start: 14 @11833 has 171 MA's), (23, 11902), (29, 11989), (57, 12169), (59, 12175), (63, 12196), (71, 12229), (79, 12280), (80, 12289), (89, 12349), (90, 12361), (103, 12436), (115, 12487), (124, 12529), (127, 12550), (132, 12589), (143, 12667), (155, 12745), (166, 12823), (169, 12844), (170, 12850), (176, 12910), (190, 13003), (194, 13024), (195, 13033), (208, 13084), (216, 13147), (233, 13237), (238, 13270), (258, 13348), (260, 13360), (262, 13369), (264, 13384), (265, 13387), (272, 13429), (288, 13516), (291, 13537), (301, 13621), (304, 13633), (315, 13735), (316, 13738), (325, 13858), (331, 13906), (333, 13915), (338, 13939), (342, 13957), (343, 13966), (348, 13996), (349, 14017), (356, 14053), (369, 14128), (378, 14197), (391, 14296), (397, 14332), (400, 14350), (404, 14383), (422, 14518), (424, 14527), (442, 14605), (445, 14620), (451, 14662), (461, 14716), (493, 14956), (507, 15031), (520, 15142), (523, 15184), (540, 15475), (548, 15556), (549, 15565), (561, 15637), (562, 15649), (568, 15667), (572, 15688), (587, 15808), (600, 15880), (602, 15898), (603, 15904),

Gene: Pixie_20 Start: 11949, Stop: 16127, Start Num: 14

Candidate Starts for Pixie_20:

(Start: 14 @11949 has 171 MA's), (23, 12018), (24, 12039), (26, 12045), (29, 12105), (48, 12243), (59, 12288), (63, 12309), (89, 12462), (90, 12474), (95, 12495), (103, 12549), (110, 12579), (115, 12600), (122, 12633), (124, 12642), (127, 12663), (132, 12702), (143, 12780), (149, 12822), (155, 12858), (159, 12882), (182, 13056), (186, 13095), (190, 13116), (194, 13137), (195, 13146), (224, 13314), (229, 13335), (234, 13359), (238, 13383), (242, 13404), (249, 13422), (257, 13455), (264, 13497), (265, 13500), (266, 13503), (272, 13542), (274, 13551), (286, 13620), (299, 13731), (303, 13761), (322, 13959), (325, 13992), (340, 14082), (343, 14100), (348, 14130), (351, 14157), (373, 14292), (384, 14373), (388, 14409), (397, 14466), (400, 14484), (402, 14505), (404, 14517), (414, 14577), (422, 14658), (430, 14697), (439, 14730), (442, 14745), (444, 14751), (445, 14760), (451, 14802), (463, 14895), (477, 14973), (493, 15096), (507, 15171), (540, 15636), (542, 15648), (548, 15717), (549, 15726), (581, 15918), (582, 15936), (589, 15972), (591, 15981), (602, 16047), (603, 16053), (605, 16068), (606, 16080),

Gene: Plagueis_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Plagueis_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Pokerus_20 Start: 12033, Stop: 15866, Start Num: 14

Candidate Starts for Pokerus_20:

(Start: 14 @12033 has 171 MA's), (23, 12102), (29, 12189), (57, 12366), (63, 12393), (78, 12465), (79, 12477), (80, 12486), (90, 12558), (103, 12633), (122, 12717), (124, 12726), (127, 12747), (132,

12786), (143, 12864), (155, 12942), (167, 13032), (176, 13107), (190, 13200), (192, 13209), (194, 13221), (195, 13230), (238, 13467), (248, 13506), (257, 13539), (272, 13626), (278, 13650), (291, 13734), (301, 13818), (304, 13830), (308, 13851), (369, 14007), (379, 14088), (387, 14136), (388, 14154), (391, 14175), (397, 14211), (404, 14262), (413, 14319), (422, 14397), (424, 14406), (442, 14484), (445, 14499), (451, 14541), (461, 14595), (493, 14835), (507, 14910), (520, 15021), (532, 15240), (534, 15252), (548, 15435), (549, 15444), (561, 15516), (568, 15546), (572, 15567), (587, 15687), (600, 15759), (602, 15777), (603, 15783),

Gene: Prithvi_21 Start: 12047, Stop: 15883, Start Num: 14

Candidate Starts for Prithvi_21:

(Start: 14 @12047 has 171 MA's), (23, 12116), (29, 12203), (57, 12383), (63, 12410), (80, 12503), (89, 12563), (90, 12575), (103, 12650), (115, 12701), (124, 12743), (127, 12764), (132, 12803), (143, 12881), (155, 12959), (159, 12983), (176, 13124), (190, 13217), (192, 13226), (194, 13238), (195, 13247), (238, 13484), (243, 13508), (248, 13523), (257, 13556), (272, 13643), (278, 13667), (291, 13751), (301, 13835), (304, 13847), (308, 13868), (315, 13949), (369, 14024), (379, 14105), (387, 14153), (388, 14171), (390, 14183), (391, 14192), (397, 14228), (404, 14279), (413, 14336), (422, 14414), (424, 14423), (442, 14501), (445, 14516), (451, 14558), (461, 14612), (493, 14852), (507, 14927), (520, 15038), (532, 15257), (534, 15269), (540, 15371), (548, 15452), (549, 15461), (561, 15533), (568, 15563), (572, 15584), (587, 15704), (600, 15776), (602, 15794), (603, 15800),

Gene: Psycho_19 Start: 12089, Stop: 16222, Start Num: 11

Candidate Starts for Psycho_19:

(Start: 11 @12089 has 1 MA's), (Start: 13 @12110 has 20 MA's), (24, 12203), (30, 12281), (31, 12305), (39, 12365), (59, 12449), (80, 12563), (89, 12623), (90, 12635), (95, 12656), (103, 12710), (114, 12758), (124, 12803), (127, 12824), (143, 12941), (155, 13019), (159, 13043), (165, 13085), (167, 13109), (176, 13184), (190, 13277), (195, 13307), (226, 13481), (234, 13520), (238, 13544), (242, 13565), (259, 13625), (272, 13703), (274, 13712), (288, 13790), (296, 13856), (302, 13898), (304, 13907), (311, 13991), (316, 14012), (317, 14045), (323, 14111), (325, 14132), (332, 14186), (334, 14195), (338, 14213), (343, 14240), (348, 14270), (353, 14306), (368, 14396), (369, 14402), (371, 14420), (386, 14525), (392, 14591), (422, 14786), (428, 14816), (436, 14849), (447, 14900), (448, 14921), (452, 14936), (453, 14942), (463, 15026), (471, 15074), (480, 15113), (486, 15173), (491, 15206), (496, 15227), (499, 15251), (505, 15281), (516, 15347), (522, 15419), (540, 15734), (541, 15743), (542, 15746), (543, 15773), (544, 15788), (546, 15803), (548, 15815), (553, 15845), (561, 15899), (566, 15917), (577, 15986), (583, 16034), (587, 16058), (589, 16070), (591, 16079), (604, 16151), (606, 16175), (611, 16214),

Gene: QuincyRose_20 Start: 12096, Stop: 15929, Start Num: 14

Candidate Starts for QuincyRose_20:

(Start: 14 @12096 has 171 MA's), (23, 12165), (29, 12252), (57, 12429), (63, 12456), (79, 12540), (80, 12549), (90, 12621), (103, 12696), (122, 12780), (124, 12789), (127, 12810), (132, 12849), (143, 12927), (155, 13005), (167, 13095), (176, 13170), (190, 13263), (194, 13284), (195, 13293), (221, 13437), (238, 13530), (248, 13569), (257, 13602), (272, 13689), (278, 13713), (291, 13797), (301, 13881), (304, 13893), (308, 13914), (369, 14070), (379, 14151), (387, 14199), (388, 14217), (391, 14238), (397, 14274), (404, 14325), (413, 14382), (422, 14460), (424, 14469), (442, 14547), (451, 14604), (461, 14658), (493, 14898), (507, 14973), (520, 15084), (532, 15303), (534, 15315), (548, 15498), (549, 15507), (561, 15579), (568, 15609), (572, 15630), (587, 15750), (600, 15822), (602, 15840), (603, 15846),

Gene: Rabbs_16 Start: 11454, Stop: 15479, Start Num: 14

Candidate Starts for Rabbs_16:

(Start: 14 @11454 has 171 MA's), (19, 11478), (32, 11655), (53, 11769), (63, 11811), (67, 11832), (70, 11841), (90, 11976), (95, 11997), (124, 12144), (130, 12186), (132, 12204), (133, 12207), (135, 12228), (136, 12240), (155, 12360), (165, 12426), (173, 12492), (175, 12516), (186, 12597), (211,

12720), (213, 12741), (228, 12831), (230, 12840), (239, 12891), (249, 12924), (253, 12942), (264, 12999), (272, 13044), (288, 13131), (291, 13152), (304, 13248), (307, 13263), (316, 13353), (319, 13410), (320, 13413), (342, 13572), (343, 13581), (347, 13608), (369, 13743), (387, 13872), (390, 13902), (420, 14124), (426, 14148), (429, 14163), (433, 14184), (447, 14238), (458, 14298), (466, 14388), (472, 14421), (474, 14436), (484, 14484), (488, 14541), (492, 14574), (536, 15006), (542, 15096), (543, 15123), (548, 15165), (549, 15174), (561, 15243), (567, 15270), (577, 15327), (585, 15387), (588, 15405), (590, 15414),

Gene: Ramen_21 Start: 12079, Stop: 15915, Start Num: 14

Candidate Starts for Ramen_21:

(Start: 14 @12079 has 171 MA's), (23, 12148), (29, 12235), (57, 12412), (63, 12439), (78, 12511), (79, 12523), (80, 12532), (90, 12604), (103, 12679), (122, 12763), (124, 12772), (127, 12793), (132, 12832), (143, 12910), (155, 12988), (167, 13078), (176, 13153), (190, 13246), (192, 13255), (194, 13267), (195, 13276), (243, 13537), (248, 13552), (257, 13585), (272, 13672), (278, 13696), (291, 13780), (301, 13864), (304, 13876), (308, 13897), (369, 14053), (379, 14134), (387, 14182), (388, 14200), (391, 14221), (397, 14257), (404, 14308), (413, 14365), (422, 14443), (424, 14452), (442, 14530), (451, 14587), (461, 14641), (493, 14881), (507, 14956), (520, 15067), (532, 15286), (534, 15298), (548, 15484), (549, 15493), (561, 15565), (568, 15595), (572, 15616), (587, 15736), (600, 15808), (602, 15826), (603, 15832),

Gene: Rapunzel97_21 Start: 12080, Stop: 15916, Start Num: 14

Candidate Starts for Rapunzel97_21:

(Start: 14 @12080 has 171 MA's), (23, 12149), (29, 12236), (57, 12413), (63, 12440), (78, 12512), (79, 12524), (80, 12533), (90, 12605), (103, 12680), (122, 12764), (124, 12773), (127, 12794), (132, 12833), (143, 12911), (155, 12989), (167, 13079), (176, 13154), (190, 13247), (192, 13256), (194, 13268), (195, 13277), (243, 13538), (248, 13553), (257, 13586), (272, 13673), (278, 13697), (291, 13781), (301, 13865), (304, 13877), (308, 13898), (369, 14054), (379, 14135), (387, 14183), (388, 14201), (391, 14222), (397, 14258), (404, 14309), (413, 14366), (422, 14444), (424, 14453), (442, 14531), (451, 14588), (461, 14642), (493, 14882), (507, 14957), (520, 15068), (532, 15287), (534, 15299), (548, 15485), (549, 15494), (561, 15566), (568, 15596), (572, 15617), (587, 15737), (600, 15809), (602, 15827), (603, 15833),

Gene: Rattrick_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Rattrick_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Remy19_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Remy19_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543,

15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Renaissance_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Renaissance_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Richarlison_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Richarlison_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Richo_21 Start: 11128, Stop: 15282, Start Num: 15

Candidate Starts for Richo_21:

(9, 11086), (Start: 15 @11128 has 38 MA's), (26, 11221), (42, 11380), (47, 11407), (67, 11497), (68, 11500), (82, 11587), (99, 11695), (116, 11764), (119, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (145, 11959), (155, 12022), (163, 12064), (172, 12133), (179, 12196), (180, 12205), (197, 12319), (198, 12325), (207, 12361), (209, 12370), (210, 12382), (212, 12394), (214, 12412), (223, 12472), (226, 12484), (227, 12490), (231, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (253, 12598), (266, 12655), (267, 12664), (272, 12694), (277, 12715), (283, 12745), (287, 12778), (298, 12862), (301, 12892), (304, 12904), (315, 13006), (321, 13084), (325, 13129), (327, 13153), (337, 13207), (338, 13210), (341, 13225), (348, 13267), (351, 13294), (353, 13303), (355, 13318), (356, 13324), (357, 13327), (378, 13468), (383, 13504), (384, 13510), (387, 13528), (389, 13555), (391, 13567), (400, 13621), (404, 13654), (414, 13714), (422, 13795), (423, 13798), (442, 13882), (445, 13897), (463, 14032), (475, 14098), (493, 14233), (530, 14584), (548, 14839), (549, 14848), (556, 14914), (587, 15109), (591, 15130), (600, 15181), (602, 15199), (603, 15205), (607, 15244),

Gene: Rosmarinus_21 Start: 12104, Stop: 15937, Start Num: 14

Candidate Starts for Rosmarinus_21:

(Start: 14 @12104 has 171 MA's), (23, 12173), (29, 12260), (37, 12335), (57, 12437), (63, 12464), (78, 12536), (79, 12548), (80, 12557), (90, 12629), (103, 12704), (122, 12788), (124, 12797), (127, 12818), (132, 12857), (136, 12893), (143, 12935), (155, 13013), (167, 13103), (176, 13178), (190, 13271), (192, 13280), (194, 13292), (195, 13301), (238, 13538), (248, 13577), (257, 13610), (272, 13697), (278, 13721), (291, 13805), (301, 13889), (304, 13901), (308, 13922), (369, 14078), (379, 14159), (387, 14207), (388, 14225), (391, 14246), (397, 14282), (404, 14333), (413, 14390), (422, 14468), (424, 14477), (442, 14555), (445, 14570), (451, 14612), (461, 14666), (493, 14906), (507, 14981), (520, 15092), (532, 15311), (534, 15323), (548, 15506), (549, 15515), (561, 15587), (568, 15617),

(572, 15638), (587, 15758), (600, 15830), (602, 15848), (603, 15854),

Gene: Ruriko_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Ruriko_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: SamuelLPlaqson_21 Start: 12024, Stop: 15863, Start Num: 14

Candidate Starts for SamuelLPlaqson_21:

(Start: 14 @12024 has 171 MA's), (23, 12093), (29, 12180), (57, 12360), (63, 12387), (79, 12471), (80, 12480), (89, 12540), (90, 12552), (103, 12627), (115, 12678), (124, 12720), (127, 12741), (132, 12780), (143, 12858), (155, 12936), (159, 12960), (176, 13101), (190, 13194), (194, 13215), (195, 13224), (238, 13461), (243, 13485), (248, 13500), (257, 13533), (272, 13620), (288, 13707), (291, 13728), (301, 13812), (304, 13824), (308, 13845), (369, 14001), (379, 14082), (388, 14148), (391, 14169), (397, 14205), (404, 14256), (408, 14274), (413, 14313), (422, 14391), (442, 14478), (445, 14493), (451, 14535), (461, 14589), (493, 14829), (507, 14904), (520, 15015), (522, 15036), (523, 15057), (530, 15177), (540, 15351), (548, 15432), (549, 15441), (561, 15513), (568, 15543), (572, 15564), (587, 15684), (600, 15756), (602, 15774), (603, 15780),

Gene: Scarlett_20 Start: 11082, Stop: 15158, Start Num: 15

Candidate Starts for Scarlett_20:

(Start: 15 @11082 has 38 MA's), (26, 11175), (38, 11307), (66, 11445), (80, 11523), (81, 11535), (82, 11541), (88, 11574), (95, 11610), (104, 11667), (106, 11679), (118, 11733), (125, 11763), (137, 11850), (140, 11865), (145, 11901), (161, 11994), (172, 12075), (197, 12258), (199, 12267), (209, 12309), (214, 12351), (223, 12411), (226, 12423), (227, 12429), (231, 12444), (236, 12465), (242, 12498), (270, 12621), (272, 12633), (273, 12639), (277, 12654), (279, 12660), (302, 12744), (310, 12825), (325, 12978), (341, 13074), (343, 13086), (348, 13116), (355, 13167), (358, 13188), (364, 13218), (366, 13224), (369, 13248), (377, 13308), (384, 13359), (389, 13404), (391, 13416), (400, 13470), (404, 13503), (413, 13560), (422, 13638), (423, 13641), (442, 13725), (447, 13752), (451, 13782), (461, 13836), (463, 13875), (493, 14076), (501, 14118), (507, 14151), (530, 14439), (532, 14496), (548, 14697), (562, 14811), (587, 14988), (600, 15072), (603, 15093),

Gene: Schiebel_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Schiebel_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: SgtBeansprout_17 Start: 11327, Stop: 15460, Start Num: 14

Candidate Starts for SgtBeansprout_17:

(10, 11288), (Start: 14 @11327 has 171 MA's), (23, 11396), (29, 11483), (37, 11561), (59, 11669), (63, 11690), (71, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (132, 12083), (143, 12161), (155, 12239), (159, 12263), (190, 12497), (208, 12578), (215, 12638), (224, 12695), (233, 12731), (238, 12764), (243, 12788), (260, 12854), (262, 12863), (272, 12923), (291, 13031), (296, 13076), (316, 13232), (324, 13343), (325, 13352), (326, 13364), (334, 13415), (338, 13433), (343, 13460), (348, 13490), (362, 13583), (369, 13622), (391, 13790), (400, 13844), (404, 13877), (412, 13922), (422, 14003), (423, 14006), (442, 14090), (444, 14096), (445, 14105), (451, 14147), (460, 14183), (461, 14201), (463, 14240), (473, 14300), (493, 14441), (505, 14501), (507, 14516), (534, 14858), (548, 15047), (549, 15056), (559, 15119), (603, 15395),

Gene: ShaboiShabazz_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for ShaboiShabazz_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Shadow1_19 Start: 10962, Stop: 14963, Start Num: 15

Candidate Starts for Shadow1_19:

(Start: 15 @10962 has 38 MA's), (26, 11055), (33, 11160), (42, 11214), (45, 11232), (50, 11250), (56, 11280), (62, 11307), (64, 11313), (88, 11454), (91, 11472), (92, 11475), (116, 11589), (118, 11604), (137, 11721), (140, 11736), (152, 11817), (164, 11886), (172, 11946), (197, 12129), (198, 12135), (210, 12192), (223, 12282), (226, 12294), (227, 12300), (231, 12315), (236, 12336), (239, 12354), (258, 12429), (270, 12492), (272, 12504), (277, 12525), (284, 12564), (300, 12609), (304, 12624), (319, 12786), (328, 12876), (342, 12948), (348, 12987), (355, 13038), (358, 13059), (364, 13089), (366, 13095), (369, 13119), (375, 13170), (388, 13266), (391, 13287), (397, 13323), (404, 13374), (422, 13515), (442, 13602), (447, 13629), (461, 13713), (493, 13953), (507, 14028), (533, 14361), (540, 14463), (541, 14472), (548, 14544), (549, 14553), (561, 14628), (568, 14658), (572, 14679), (587, 14796), (597, 14847), (600, 14871), (605, 14910), (606, 14922),

Gene: Shaobing_21 Start: 11128, Stop: 15282, Start Num: 15

Candidate Starts for Shaobing_21:

(9, 11086), (Start: 15 @11128 has 38 MA's), (26, 11221), (42, 11380), (47, 11407), (67, 11497), (68, 11500), (82, 11587), (99, 11695), (116, 11764), (119, 11782), (133, 11866), (137, 11908), (140, 11923), (141, 11932), (145, 11959), (155, 12022), (163, 12064), (172, 12133), (179, 12196), (180, 12205), (197, 12319), (198, 12325), (207, 12361), (209, 12370), (210, 12382), (212, 12394), (214, 12412), (223, 12472), (226, 12484), (227, 12490), (231, 12505), (235, 12523), (236, 12526), (239, 12544), (242, 12559), (253, 12598), (266, 12655), (267, 12664), (271, 12688), (272, 12694), (277, 12715), (283, 12745), (287, 12778), (298, 12862), (301, 12892), (304, 12904), (315, 13006), (321, 13084), (325, 13129), (327, 13153), (337, 13207), (338, 13210), (341, 13225), (348, 13267), (351, 13294), (353, 13303), (355, 13318), (356, 13324), (357, 13327), (378, 13468), (383, 13504), (384, 13510), (387, 13528), (389, 13555), (391, 13567), (400, 13621), (404, 13654), (414, 13714), (422, 13795), (423, 13798), (442, 13882), (445, 13897), (463, 14032), (475, 14098), (493, 14233), (530, 14584), (548, 14839), (549, 14848), (556, 14914), (587, 15109), (591, 15130), (600, 15181), (602, 15199), (603, 15205), (607, 15244),

Gene: ShedlockHolmes_20 Start: 12197, Stop: 16345, Start Num: 14

Candidate Starts for ShedlockHolmes_20:

(Start: 14 @12197 has 171 MA's), (23, 12266), (24, 12287), (26, 12293), (29, 12353), (48, 12491), (59, 12536), (63, 12557), (75, 12602), (89, 12710), (90, 12722), (95, 12743), (103, 12797), (110, 12827), (115, 12848), (122, 12881), (124, 12890), (127, 12911), (132, 12950), (143, 13028), (149, 13070), (155, 13106), (159, 13130), (182, 13304), (190, 13364), (194, 13385), (195, 13394), (224, 13562), (229, 13583), (234, 13607), (238, 13631), (242, 13652), (249, 13670), (257, 13703), (264, 13745), (265, 13748), (266, 13751), (272, 13790), (274, 13799), (286, 13868), (299, 13979), (303, 14009), (322, 14207), (325, 14240), (340, 14330), (343, 14348), (348, 14378), (351, 14405), (384, 14621), (388, 14657), (397, 14714), (400, 14732), (404, 14765), (405, 14777), (414, 14825), (422, 14906), (423, 14909), (451, 15026), (463, 15119), (477, 15197), (490, 15296), (493, 15320), (507, 15395), (540, 15854), (542, 15866), (548, 15935), (549, 15944), (581, 16136), (582, 16154), (589, 16190), (591, 16199), (602, 16265), (603, 16271), (605, 16286), (606, 16298),

Gene: ShiaSurprise_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for ShiaSurprise_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: SirPhilip_20 Start: 10854, Stop: 14759, Start Num: 15

Candidate Starts for SirPhilip_20:

(Start: 15 @10854 has 38 MA's), (26, 10947), (33, 11052), (41, 11103), (42, 11106), (64, 11205), (79, 11286), (80, 11295), (86, 11334), (88, 11346), (91, 11364), (92, 11367), (94, 11376), (100, 11424), (104, 11439), (110, 11457), (112, 11463), (114, 11475), (137, 11613), (140, 11628), (151, 11694), (152, 11709), (197, 12021), (208, 12066), (209, 12072), (210, 12084), (214, 12114), (223, 12174), (226, 12186), (227, 12192), (231, 12207), (236, 12228), (239, 12246), (240, 12249), (265, 12354), (272, 12396), (277, 12417), (284, 12456), (303, 12510), (304, 12516), (325, 12675), (329, 12708), (346, 12753), (347, 12756), (348, 12759), (351, 12786), (352, 12789), (353, 12795), (357, 12819), (362, 12852), (368, 12885), (378, 12960), (386, 13014), (387, 13020), (388, 13038), (391, 13059), (396, 13092), (414, 13206), (422, 13287), (423, 13290), (442, 13374), (461, 13485), (463, 13524), (473, 13584), (493, 13725), (507, 13800), (541, 14253), (548, 14325), (554, 14379), (562, 14430), (581, 14556), (587, 14598), (600, 14673), (603, 14694),

Gene: Sizemore_16 Start: 11465, Stop: 15478, Start Num: 14

Candidate Starts for Sizemore_16:

(Start: 14 @11465 has 171 MA's), (32, 11666), (53, 11780), (63, 11822), (70, 11852), (90, 11987), (93, 11999), (95, 12008), (130, 12197), (132, 12215), (133, 12218), (135, 12239), (136, 12251), (147, 12323), (155, 12371), (173, 12503), (175, 12527), (186, 12608), (211, 12731), (222, 12815), (230, 12851), (238, 12896), (239, 12902), (264, 13010), (268, 13034), (272, 13055), (307, 13274), (320, 13424), (328, 13511), (347, 13619), (369, 13754), (384, 13865), (387, 13883), (390, 13913), (420, 14135), (426, 14159), (429, 14174), (433, 14195), (442, 14222), (447, 14249), (458, 14309), (466, 14399), (472, 14432), (484, 14495), (488, 14552), (492, 14585), (495, 14594), (542, 15098), (543, 15125), (546, 15155), (548, 15167), (549, 15176), (561, 15245), (577, 15326), (585, 15386), (588, 15404), (590, 15413),

Gene: Slimphazie_21 Start: 12080, Stop: 15916, Start Num: 14

Candidate Starts for Slimphazie_21:

(Start: 14 @12080 has 171 MA's), (23, 12149), (29, 12236), (57, 12413), (63, 12440), (78, 12512), (79, 12524), (80, 12533), (90, 12605), (103, 12680), (122, 12764), (124, 12773), (127, 12794), (132, 12833), (143, 12911), (155, 12989), (167, 13079), (176, 13154), (190, 13247), (192, 13256), (194, 13268), (195, 13277), (243, 13538), (248, 13553), (257, 13586), (272, 13673), (278, 13697), (291, 13781), (301, 13865), (304, 13877), (308, 13898), (369, 14054), (379, 14135), (387, 14183), (388, 14201), (391, 14222), (397, 14258), (404, 14309), (413, 14366), (422, 14444), (424, 14453), (442, 14531), (451, 14588), (461, 14642), (493, 14882), (507, 14957), (520, 15068), (532, 15287), (534, 15299), (548, 15485), (549, 15494), (561, 15566), (568, 15596), (572, 15617), (587, 15737), (600, 15809), (602, 15827), (603, 15833),

Gene: Sneeze_16 Start: 11453, Stop: 15478, Start Num: 14

Candidate Starts for Sneeze_16:

(Start: 14 @11453 has 171 MA's), (19, 11477), (32, 11654), (53, 11768), (63, 11810), (67, 11831), (70, 11840), (90, 11975), (95, 11996), (124, 12143), (130, 12185), (132, 12203), (133, 12206), (135, 12227), (136, 12239), (155, 12359), (165, 12425), (173, 12491), (175, 12515), (186, 12596), (211, 12719), (213, 12740), (228, 12830), (230, 12839), (239, 12890), (249, 12923), (253, 12941), (264, 12998), (272, 13043), (288, 13130), (291, 13151), (304, 13247), (307, 13262), (316, 13352), (319, 13409), (320, 13412), (342, 13571), (343, 13580), (347, 13607), (369, 13742), (387, 13871), (390, 13901), (420, 14123), (426, 14147), (429, 14162), (433, 14183), (447, 14237), (458, 14297), (466, 14387), (472, 14420), (474, 14435), (484, 14483), (488, 14540), (492, 14573), (536, 15005), (542, 15095), (543, 15122), (548, 15164), (549, 15173), (561, 15242), (567, 15269), (577, 15326), (585, 15386), (588, 15404), (590, 15413),

Gene: SoSeph_19 Start: 12264, Stop: 16394, Start Num: 13

Candidate Starts for SoSeph_19:

(Start: 13 @12264 has 20 MA's), (24, 12357), (30, 12435), (31, 12459), (39, 12519), (59, 12603), (61, 12615), (80, 12717), (89, 12777), (90, 12789), (95, 12810), (103, 12864), (114, 12912), (124, 12957), (127, 12978), (143, 13095), (155, 13173), (159, 13197), (167, 13263), (176, 13338), (190, 13431), (195, 13461), (226, 13635), (228, 13644), (234, 13674), (238, 13698), (242, 13719), (259, 13779), (272, 13857), (274, 13866), (288, 13944), (296, 14010), (302, 14052), (304, 14061), (311, 14145), (316, 14166), (317, 14199), (332, 14340), (334, 14349), (338, 14367), (343, 14394), (354, 14472), (369, 14556), (386, 14679), (392, 14745), (422, 14940), (428, 14970), (434, 14997), (436, 15003), (443, 15030), (448, 15075), (452, 15090), (453, 15096), (463, 15180), (471, 15228), (480, 15267), (486, 15327), (491, 15360), (496, 15381), (499, 15405), (505, 15438), (516, 15522), (522, 15594), (540, 15903), (544, 15957), (546, 15972), (548, 15984), (553, 16014), (583, 16200), (587, 16224), (589, 16236), (604, 16323), (606, 16347),

Gene: Spock_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Spock_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Stargaze_16 Start: 11766, Stop: 15800, Start Num: 15

Candidate Starts for Stargaze_16:

(Start: 15 @11766 has 38 MA's), (26, 11862), (32, 11967), (45, 12042), (50, 12060), (52, 12072), (56, 12090), (62, 12117), (64, 12123), (82, 12231), (84, 12237), (86, 12252), (88, 12264), (91, 12282), (98,

12327), (107, 12363), (111, 12378), (114, 12393), (116, 12399), (133, 12501), (137, 12543), (140, 12558), (145, 12594), (155, 12657), (158, 12678), (161, 12687), (169, 12750), (172, 12768), (191, 12909), (197, 12951), (204, 12981), (205, 12984), (207, 12993), (209, 13002), (214, 13044), (225, 13113), (226, 13116), (227, 13122), (231, 13137), (236, 13158), (237, 13167), (260, 13263), (268, 13305), (272, 13326), (278, 13350), (280, 13362), (281, 13365), (289, 13422), (294, 13455), (298, 13494), (304, 13536), (305, 13539), (316, 13641), (320, 13701), (321, 13716), (324, 13752), (332, 13815), (336, 13836), (347, 13896), (366, 14007), (369, 14031), (375, 14082), (376, 14088), (392, 14220), (417, 14352), (426, 14436), (429, 14451), (446, 14517), (459, 14586), (464, 14667), (466, 14676), (484, 14769), (488, 14826), (492, 14859), (503, 14919), (506, 14934), (530, 15213), (542, 15402), (543, 15429), (548, 15471), (585, 15708), (588, 15726), (591, 15741), (593, 15753),

Gene: Stinson_21 Start: 12048, Stop: 15881, Start Num: 14

Candidate Starts for Stinson_21:

(Start: 14 @12048 has 171 MA's), (23, 12117), (29, 12204), (57, 12384), (63, 12411), (79, 12495), (80, 12504), (89, 12564), (90, 12576), (103, 12651), (113, 12693), (122, 12735), (124, 12744), (127, 12765), (132, 12804), (143, 12882), (155, 12960), (176, 13125), (190, 13218), (194, 13239), (195, 13248), (238, 13485), (243, 13509), (248, 13524), (257, 13557), (272, 13644), (291, 13752), (301, 13836), (304, 13848), (308, 13869), (315, 13950), (369, 14025), (379, 14106), (381, 14115), (387, 14154), (388, 14172), (391, 14193), (397, 14229), (404, 14280), (413, 14337), (422, 14415), (424, 14424), (442, 14502), (445, 14517), (451, 14559), (461, 14613), (493, 14853), (507, 14928), (520, 15039), (532, 15258), (540, 15372), (548, 15453), (549, 15462), (561, 15534), (568, 15564), (572, 15585), (587, 15702), (600, 15774), (603, 15798),

Gene: Sulley_21 Start: 12049, Stop: 15882, Start Num: 14

Candidate Starts for Sulley_21:

(Start: 14 @12049 has 171 MA's), (23, 12118), (29, 12205), (57, 12382), (63, 12409), (79, 12493), (80, 12502), (90, 12574), (103, 12649), (122, 12733), (124, 12742), (127, 12763), (132, 12802), (143, 12880), (155, 12958), (167, 13048), (176, 13123), (190, 13216), (194, 13237), (195, 13246), (238, 13483), (248, 13522), (257, 13555), (272, 13642), (278, 13666), (291, 13750), (301, 13834), (304, 13846), (308, 13867), (369, 14023), (379, 14104), (387, 14152), (388, 14170), (391, 14191), (397, 14227), (404, 14278), (413, 14335), (422, 14413), (424, 14422), (442, 14500), (445, 14515), (451, 14557), (461, 14611), (493, 14851), (507, 14926), (520, 15037), (532, 15256), (534, 15268), (548, 15451), (549, 15460), (568, 15562), (572, 15583), (587, 15703), (600, 15775), (602, 15793), (603, 15799),

Gene: Sunflower1121_19 Start: 10973, Stop: 14974, Start Num: 15

Candidate Starts for Sunflower1121_19:

(7, 10925), (Start: 15 @10973 has 38 MA's), (26, 11066), (33, 11171), (42, 11225), (45, 11243), (50, 11261), (56, 11291), (62, 11318), (64, 11324), (76, 11369), (88, 11465), (91, 11483), (92, 11486), (116, 11600), (118, 11615), (137, 11732), (140, 11747), (152, 11828), (163, 11888), (164, 11897), (172, 11957), (197, 12140), (198, 12146), (210, 12203), (223, 12293), (226, 12305), (227, 12311), (231, 12326), (236, 12347), (239, 12365), (258, 12440), (270, 12503), (272, 12515), (277, 12536), (284, 12575), (300, 12620), (304, 12635), (319, 12797), (325, 12860), (328, 12887), (342, 12959), (348, 12998), (355, 13049), (358, 13070), (364, 13100), (366, 13106), (369, 13130), (375, 13181), (391, 13298), (397, 13334), (404, 13385), (422, 13526), (442, 13613), (447, 13640), (461, 13724), (493, 13964), (507, 14039), (533, 14372), (540, 14474), (541, 14483), (548, 14555), (549, 14564), (561, 14639), (568, 14669), (572, 14690), (587, 14807), (597, 14858), (600, 14882), (605, 14921), (606, 14933),

Gene: Sweets_16 Start: 11459, Stop: 15472, Start Num: 14

Candidate Starts for Sweets_16:

(Start: 14 @11459 has 171 MA's), (32, 11660), (53, 11774), (63, 11816), (70, 11846), (90, 11981), (93, 11993), (95, 12002), (130, 12191), (132, 12209), (133, 12212), (135, 12233), (136, 12245), (147,

12317), (155, 12365), (173, 12497), (175, 12521), (186, 12602), (211, 12725), (222, 12809), (230, 12845), (238, 12890), (239, 12896), (264, 13004), (268, 13028), (272, 13049), (307, 13268), (320, 13418), (328, 13505), (347, 13613), (369, 13748), (384, 13859), (387, 13877), (390, 13907), (420, 14129), (426, 14153), (429, 14168), (433, 14189), (442, 14216), (447, 14243), (458, 14303), (466, 14393), (472, 14426), (484, 14489), (488, 14546), (492, 14579), (495, 14588), (542, 15092), (543, 15119), (546, 15149), (548, 15161), (549, 15170), (561, 15239), (577, 15320), (585, 15380), (588, 15398), (590, 15407),

Gene: Syra333_20 Start: 11068, Stop: 15069, Start Num: 15

Candidate Starts for Syra333_20:

(Start: 15 @11068 has 38 MA's), (26, 11161), (33, 11266), (42, 11320), (45, 11338), (50, 11356), (56, 11386), (62, 11413), (64, 11419), (76, 11464), (88, 11560), (91, 11578), (92, 11581), (116, 11695), (118, 11710), (137, 11827), (140, 11842), (152, 11923), (163, 11983), (164, 11992), (172, 12052), (197, 12235), (198, 12241), (210, 12298), (223, 12388), (226, 12400), (227, 12406), (231, 12421), (236, 12442), (239, 12460), (258, 12535), (265, 12568), (270, 12598), (272, 12610), (277, 12631), (284, 12670), (300, 12715), (304, 12730), (319, 12892), (325, 12955), (328, 12982), (342, 13054), (348, 13093), (355, 13144), (358, 13165), (364, 13195), (366, 13201), (369, 13225), (375, 13276), (388, 13372), (391, 13393), (397, 13429), (404, 13480), (422, 13621), (423, 13624), (442, 13708), (447, 13735), (461, 13819), (462, 13831), (493, 14059), (507, 14134), (548, 14650), (549, 14659), (561, 14734), (568, 14764), (572, 14785), (587, 14902), (600, 14977), (605, 15016), (606, 15028),

Gene: TBond007_20 Start: 11948, Stop: 16126, Start Num: 14

Candidate Starts for TBond007_20:

(Start: 14 @11948 has 171 MA's), (23, 12017), (24, 12038), (26, 12044), (29, 12104), (48, 12242), (59, 12287), (63, 12308), (89, 12461), (90, 12473), (95, 12494), (103, 12548), (110, 12578), (115, 12599), (122, 12632), (124, 12641), (127, 12662), (132, 12701), (143, 12779), (149, 12821), (155, 12857), (159, 12881), (182, 13055), (186, 13094), (190, 13115), (194, 13136), (195, 13145), (224, 13313), (229, 13334), (234, 13358), (238, 13382), (242, 13403), (249, 13421), (257, 13454), (264, 13496), (265, 13499), (266, 13502), (272, 13541), (274, 13550), (286, 13619), (299, 13730), (303, 13760), (322, 13958), (325, 13991), (340, 14081), (343, 14099), (348, 14129), (351, 14156), (384, 14372), (388, 14408), (397, 14465), (400, 14483), (402, 14504), (404, 14516), (414, 14576), (422, 14657), (430, 14696), (439, 14729), (442, 14744), (444, 14750), (445, 14759), (451, 14801), (463, 14894), (477, 14972), (493, 15095), (507, 15170), (540, 15635), (542, 15647), (548, 15716), (549, 15725), (581, 15917), (589, 15971), (591, 15980), (602, 16046), (603, 16052), (605, 16067), (606, 16079),

Gene: TClif_20 Start: 11063, Stop: 15118, Start Num: 15

Candidate Starts for TClif_20:

(7, 11015), (Start: 15 @11063 has 38 MA's), (18, 11081), (26, 11156), (42, 11315), (62, 11408), (65, 11417), (68, 11435), (73, 11450), (80, 11504), (86, 11543), (88, 11555), (92, 11576), (98, 11618), (104, 11648), (112, 11672), (131, 11783), (137, 11822), (140, 11837), (141, 11846), (145, 11873), (155, 11936), (172, 12047), (177, 12098), (197, 12230), (208, 12275), (209, 12281), (214, 12323), (223, 12383), (226, 12395), (227, 12401), (231, 12416), (236, 12437), (239, 12455), (242, 12470), (252, 12506), (265, 12563), (270, 12593), (272, 12605), (276, 12623), (299, 12689), (303, 12719), (304, 12725), (314, 12824), (316, 12830), (325, 12950), (331, 12998), (334, 13013), (341, 13046), (343, 13058), (348, 13088), (353, 13124), (355, 13139), (356, 13145), (360, 13172), (366, 13196), (369, 13220), (373, 13250), (375, 13271), (387, 13349), (391, 13388), (397, 13424), (404, 13475), (415, 13538), (422, 13616), (423, 13619), (427, 13643), (442, 13703), (463, 13853), (493, 14054), (507, 14129), (515, 14198), (548, 14678), (549, 14687), (553, 14708), (561, 14783), (562, 14795), (568, 14813), (572, 14834), (587, 14951), (600, 15026), (602, 15044), (603, 15050), (605, 15065), (606, 15077), (607, 15089), (608, 15092), (610, 15113),

Gene: Tachez_21 Start: 12042, Stop: 15878, Start Num: 14

Candidate Starts for Tachez_21:

(Start: 14 @12042 has 171 MA's), (23, 12111), (29, 12198), (57, 12375), (63, 12402), (78, 12474), (79, 12486), (80, 12495), (90, 12567), (103, 12642), (122, 12726), (124, 12735), (127, 12756), (132, 12795), (143, 12873), (155, 12951), (167, 13041), (176, 13116), (190, 13209), (192, 13218), (194, 13230), (195, 13239), (243, 13500), (248, 13515), (257, 13548), (272, 13635), (278, 13659), (291, 13743), (301, 13827), (304, 13839), (308, 13860), (369, 14016), (379, 14097), (387, 14145), (388, 14163), (391, 14184), (397, 14220), (404, 14271), (413, 14328), (422, 14406), (424, 14415), (442, 14493), (451, 14550), (461, 14604), (493, 14844), (507, 14919), (520, 15030), (532, 15249), (534, 15261), (548, 15447), (549, 15456), (561, 15528), (568, 15558), (572, 15579), (587, 15699), (600, 15771), (602, 15789), (603, 15795),

Gene: Taheera_16 Start: 11466, Stop: 15491, Start Num: 14

Candidate Starts for Taheera_16:

(Start: 14 @11466 has 171 MA's), (19, 11490), (32, 11667), (53, 11781), (63, 11823), (67, 11844), (70, 11853), (90, 11988), (95, 12009), (124, 12156), (130, 12198), (132, 12216), (133, 12219), (134, 12234), (135, 12240), (136, 12252), (155, 12372), (165, 12438), (173, 12504), (175, 12528), (186, 12609), (211, 12732), (213, 12753), (222, 12816), (228, 12843), (230, 12852), (239, 12903), (253, 12954), (264, 13011), (272, 13056), (288, 13143), (304, 13260), (307, 13275), (316, 13365), (319, 13422), (320, 13425), (340, 13575), (343, 13593), (387, 13884), (390, 13914), (420, 14136), (426, 14160), (429, 14175), (433, 14196), (447, 14250), (458, 14310), (466, 14400), (472, 14433), (474, 14448), (484, 14496), (488, 14553), (492, 14586), (536, 15018), (542, 15108), (543, 15135), (548, 15177), (549, 15186), (561, 15255), (567, 15282), (577, 15339), (585, 15399), (588, 15417), (590, 15426),

Gene: TaiwanKao_22 Start: 12053, Stop: 15889, Start Num: 14

Candidate Starts for TaiwanKao_22:

(Start: 14 @12053 has 171 MA's), (23, 12122), (29, 12209), (57, 12389), (63, 12416), (79, 12500), (80, 12509), (89, 12569), (90, 12581), (103, 12656), (113, 12698), (122, 12740), (124, 12749), (127, 12770), (132, 12809), (143, 12887), (155, 12965), (176, 13130), (190, 13223), (192, 13232), (194, 13244), (195, 13253), (238, 13490), (243, 13514), (248, 13529), (257, 13562), (272, 13649), (278, 13673), (291, 13757), (301, 13841), (304, 13853), (315, 13955), (369, 14030), (379, 14111), (387, 14159), (388, 14177), (390, 14189), (391, 14198), (397, 14234), (404, 14285), (413, 14342), (422, 14420), (424, 14429), (442, 14507), (445, 14522), (451, 14564), (461, 14618), (493, 14858), (507, 14933), (520, 15044), (532, 15263), (534, 15275), (540, 15377), (548, 15458), (549, 15467), (561, 15539), (568, 15569), (572, 15590), (587, 15710), (600, 15782), (602, 15800), (603, 15806),

Gene: Teejan_17 Start: 11327, Stop: 15460, Start Num: 14

Candidate Starts for Teejan_17:

(10, 11288), (Start: 14 @11327 has 171 MA's), (23, 11396), (29, 11483), (37, 11561), (59, 11669), (63, 11690), (71, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (132, 12083), (143, 12161), (155, 12239), (159, 12263), (190, 12497), (208, 12578), (215, 12638), (224, 12695), (233, 12731), (238, 12764), (243, 12788), (260, 12854), (262, 12863), (272, 12923), (291, 13031), (296, 13076), (316, 13232), (324, 13343), (325, 13352), (326, 13364), (334, 13415), (338, 13433), (343, 13460), (348, 13490), (362, 13583), (369, 13622), (391, 13790), (400, 13844), (404, 13877), (412, 13922), (422, 14003), (423, 14006), (442, 14090), (444, 14096), (445, 14105), (451, 14147), (460, 14183), (461, 14201), (463, 14240), (473, 14300), (493, 14441), (505, 14501), (507, 14516), (534, 14858), (548, 15047), (549, 15056), (559, 15119), (603, 15395),

Gene: Terror_16 Start: 11466, Stop: 15491, Start Num: 14

Candidate Starts for Terror_16:

(Start: 14 @11466 has 171 MA's), (19, 11490), (32, 11667), (53, 11781), (63, 11823), (67, 11844), (70, 11853), (90, 11988), (95, 12009), (124, 12156), (130, 12198), (132, 12216), (133, 12219), (134, 12234), (135, 12240), (136, 12252), (155, 12372), (165, 12438), (173, 12504), (175, 12528), (186, 12609), (211, 12732), (213, 12753), (222, 12816), (228, 12843), (230, 12852), (239, 12903), (253,

12954), (264, 13011), (272, 13056), (288, 13143), (304, 13260), (307, 13275), (316, 13365), (319, 13422), (320, 13425), (340, 13575), (343, 13593), (387, 13884), (390, 13914), (420, 14136), (426, 14160), (429, 14175), (433, 14196), (447, 14250), (458, 14310), (466, 14400), (472, 14433), (474, 14448), (484, 14496), (488, 14553), (492, 14586), (536, 15018), (542, 15108), (543, 15135), (548, 15177), (549, 15186), (561, 15255), (567, 15282), (577, 15339), (585, 15399), (588, 15417), (590, 15426),

Gene: Thyatira_19 Start: 12136, Stop: 16245, Start Num: 13

Candidate Starts for Thyatira_19:

(Start: 13 @12136 has 20 MA's), (39, 12394), (59, 12478), (75, 12544), (80, 12592), (89, 12652), (90, 12664), (95, 12685), (103, 12739), (110, 12769), (124, 12832), (127, 12853), (134, 12910), (143, 12970), (155, 13048), (159, 13072), (165, 13114), (169, 13147), (190, 13306), (194, 13327), (213, 13405), (222, 13468), (225, 13483), (226, 13486), (228, 13495), (229, 13501), (232, 13513), (241, 13567), (266, 13669), (272, 13708), (296, 13861), (302, 13903), (307, 13927), (316, 14017), (317, 14050), (332, 14191), (334, 14200), (338, 14218), (343, 14245), (354, 14323), (369, 14407), (386, 14530), (392, 14596), (410, 14698), (422, 14791), (424, 14800), (428, 14821), (436, 14854), (447, 14905), (448, 14926), (452, 14941), (453, 14947), (463, 15031), (467, 15061), (471, 15079), (480, 15118), (486, 15178), (491, 15211), (496, 15232), (499, 15256), (505, 15289), (516, 15373), (522, 15445), (540, 15754), (544, 15808), (546, 15823), (548, 15835), (553, 15865), (583, 16051), (587, 16075), (589, 16087), (604, 16174), (606, 16198),

Gene: Tierra_20 Start: 11792, Stop: 15793, Start Num: 15

Candidate Starts for Tierra_20:

(Start: 15 @11792 has 38 MA's), (26, 11885), (33, 11990), (38, 12017), (42, 12044), (45, 12062), (50, 12080), (55, 12104), (56, 12110), (62, 12137), (64, 12143), (73, 12179), (76, 12188), (78, 12212), (88, 12284), (91, 12302), (92, 12305), (118, 12434), (137, 12551), (152, 12647), (158, 12686), (164, 12716), (172, 12776), (197, 12959), (198, 12965), (199, 12968), (210, 13022), (214, 13052), (223, 13112), (226, 13124), (227, 13130), (231, 13145), (236, 13166), (239, 13184), (270, 13322), (272, 13334), (277, 13355), (284, 13394), (303, 13448), (304, 13454), (319, 13616), (325, 13679), (338, 13760), (341, 13775), (348, 13817), (355, 13868), (358, 13889), (364, 13919), (366, 13925), (369, 13949), (375, 14000), (384, 14060), (391, 14117), (397, 14153), (400, 14171), (404, 14204), (422, 14345), (423, 14348), (442, 14432), (447, 14459), (461, 14543), (493, 14783), (507, 14858), (533, 15191), (540, 15293), (541, 15302), (548, 15374), (561, 15458), (568, 15488), (572, 15509), (587, 15626), (600, 15701), (605, 15740), (606, 15752),

Gene: Tigress9_20 Start: 11051, Stop: 15055, Start Num: 15

Candidate Starts for Tigress9_20:

(Start: 15 @11051 has 38 MA's), (26, 11144), (33, 11249), (42, 11303), (45, 11321), (50, 11339), (56, 11369), (62, 11396), (64, 11402), (76, 11447), (88, 11543), (91, 11561), (92, 11564), (116, 11678), (118, 11693), (137, 11810), (140, 11825), (152, 11906), (163, 11966), (164, 11975), (172, 12035), (197, 12218), (198, 12224), (210, 12281), (223, 12371), (226, 12383), (227, 12389), (231, 12404), (236, 12425), (239, 12443), (258, 12518), (265, 12551), (270, 12581), (272, 12593), (277, 12614), (284, 12653), (300, 12698), (304, 12713), (319, 12875), (325, 12938), (328, 12965), (342, 13037), (348, 13076), (355, 13127), (358, 13148), (364, 13178), (366, 13184), (369, 13208), (375, 13259), (388, 13355), (391, 13376), (397, 13412), (404, 13463), (422, 13604), (423, 13607), (442, 13691), (447, 13718), (461, 13802), (493, 14042), (507, 14117), (540, 14555), (541, 14564), (548, 14636), (549, 14645), (561, 14720), (568, 14750), (572, 14771), (587, 14888), (600, 14963), (605, 15002), (606, 15014),

Gene: TinaBug_16 Start: 11459, Stop: 15472, Start Num: 14

Candidate Starts for TinaBug_16:

(Start: 14 @11459 has 171 MA's), (32, 11660), (53, 11774), (63, 11816), (70, 11846), (90, 11981), (93, 11993), (95, 12002), (130, 12191), (132, 12209), (133, 12212), (135, 12233), (136, 12245), (147,

12317), (155, 12365), (173, 12497), (175, 12521), (186, 12602), (211, 12725), (222, 12809), (230, 12845), (238, 12890), (239, 12896), (264, 13004), (268, 13028), (272, 13049), (307, 13268), (320, 13418), (328, 13505), (347, 13613), (369, 13748), (384, 13859), (387, 13877), (390, 13907), (420, 14129), (426, 14153), (429, 14168), (433, 14189), (442, 14216), (447, 14243), (458, 14303), (466, 14393), (472, 14426), (484, 14489), (488, 14546), (492, 14579), (495, 14588), (542, 15092), (543, 15119), (546, 15149), (548, 15161), (549, 15170), (561, 15239), (577, 15320), (585, 15380), (588, 15398), (590, 15407),

Gene: TingHuaYa_21 Start: 11093, Stop: 15220, Start Num: 15

Candidate Starts for TingHuaYa_21:

(9, 11045), (Start: 15 @11093 has 38 MA's), (26, 11186), (38, 11318), (41, 11342), (47, 11372), (52, 11393), (55, 11405), (62, 11438), (68, 11465), (82, 11552), (88, 11585), (91, 11603), (92, 11606), (98, 11648), (110, 11696), (133, 11822), (137, 11864), (140, 11879), (145, 11915), (156, 11987), (172, 12089), (197, 12272), (207, 12314), (208, 12317), (209, 12323), (210, 12335), (214, 12365), (223, 12425), (227, 12443), (231, 12458), (235, 12476), (236, 12479), (242, 12512), (262, 12593), (266, 12608), (272, 12647), (277, 12668), (301, 12845), (304, 12857), (306, 12866), (309, 12917), (315, 12959), (325, 13082), (327, 13106), (338, 13163), (341, 13178), (342, 13181), (351, 13247), (353, 13256), (357, 13280), (366, 13328), (375, 13403), (378, 13421), (387, 13481), (389, 13508), (391, 13520), (397, 13556), (400, 13574), (405, 13619), (409, 13649), (414, 13667), (422, 13748), (423, 13751), (442, 13835), (445, 13850), (450, 13889), (451, 13892), (463, 13985), (475, 14051), (493, 14186), (530, 14537), (540, 14708), (548, 14789), (561, 14873), (587, 15041), (600, 15113), (602, 15131), (603, 15137),

Gene: TiniBug_21 Start: 12024, Stop: 15860, Start Num: 14

Candidate Starts for TiniBug_21:

(Start: 14 @12024 has 171 MA's), (23, 12093), (29, 12180), (57, 12360), (63, 12387), (79, 12471), (80, 12480), (89, 12540), (90, 12552), (103, 12627), (113, 12669), (122, 12711), (124, 12720), (127, 12741), (132, 12780), (143, 12858), (155, 12936), (176, 13101), (190, 13194), (194, 13215), (195, 13224), (238, 13461), (243, 13485), (248, 13500), (257, 13533), (272, 13620), (288, 13707), (291, 13728), (301, 13812), (304, 13824), (308, 13845), (369, 14001), (379, 14082), (388, 14148), (391, 14169), (397, 14205), (404, 14256), (408, 14274), (413, 14313), (422, 14391), (442, 14478), (445, 14493), (451, 14535), (461, 14589), (493, 14829), (507, 14904), (520, 15015), (522, 15036), (523, 15057), (530, 15177), (540, 15348), (548, 15429), (549, 15438), (561, 15510), (568, 15540), (572, 15561), (587, 15681), (600, 15753), (602, 15771), (603, 15777),

Gene: Tiri_21 Start: 12088, Stop: 15921, Start Num: 14

Candidate Starts for Tiri_21:

(3, 11869), (10, 12049), (Start: 14 @12088 has 171 MA's), (23, 12157), (29, 12244), (57, 12421), (63, 12448), (79, 12532), (80, 12541), (90, 12613), (103, 12688), (122, 12772), (124, 12781), (127, 12802), (132, 12841), (143, 12919), (155, 12997), (167, 13087), (176, 13162), (190, 13255), (192, 13264), (194, 13276), (195, 13285), (228, 13468), (238, 13522), (248, 13561), (257, 13594), (272, 13681), (278, 13705), (291, 13789), (301, 13873), (304, 13885), (308, 13906), (369, 14062), (379, 14143), (387, 14191), (388, 14209), (391, 14230), (397, 14266), (404, 14317), (413, 14374), (422, 14452), (424, 14461), (442, 14539), (451, 14596), (461, 14650), (493, 14890), (507, 14965), (520, 15076), (532, 15295), (534, 15307), (540, 15409), (548, 15490), (549, 15499), (568, 15601), (572, 15622), (587, 15742), (600, 15814), (602, 15832), (603, 15838),

Gene: TomBrady_16 Start: 11465, Stop: 15478, Start Num: 14

Candidate Starts for TomBrady_16:

(Start: 14 @11465 has 171 MA's), (32, 11666), (53, 11780), (63, 11822), (70, 11852), (90, 11987), (93, 11999), (95, 12008), (130, 12197), (132, 12215), (133, 12218), (135, 12239), (136, 12251), (147, 12323), (155, 12371), (173, 12503), (175, 12527), (186, 12608), (211, 12731), (222, 12815), (230, 12851), (238, 12896), (239, 12902), (264, 13010), (268, 13034), (272, 13055), (307, 13274), (320,

13424), (328, 13511), (347, 13619), (369, 13754), (384, 13865), (387, 13883), (390, 13913), (420, 14135), (426, 14159), (429, 14174), (433, 14195), (442, 14222), (447, 14249), (458, 14309), (466, 14399), (472, 14432), (484, 14495), (488, 14552), (492, 14585), (495, 14594), (542, 15098), (543, 15125), (546, 15155), (548, 15167), (549, 15176), (561, 15245), (577, 15326), (585, 15386), (588, 15404), (590, 15413),

Gene: Topper_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Topper_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Torres_17 Start: 11327, Stop: 15460, Start Num: 14

Candidate Starts for Torres_17:

(10, 11288), (Start: 14 @11327 has 171 MA's), (23, 11396), (29, 11483), (37, 11561), (59, 11669), (63, 11690), (71, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (132, 12083), (143, 12161), (155, 12239), (159, 12263), (190, 12497), (208, 12578), (215, 12638), (224, 12695), (233, 12731), (238, 12764), (243, 12788), (260, 12854), (262, 12863), (272, 12923), (291, 13031), (296, 13076), (316, 13232), (324, 13343), (325, 13352), (326, 13364), (334, 13415), (338, 13433), (343, 13460), (348, 13490), (362, 13583), (369, 13622), (391, 13790), (400, 13844), (404, 13877), (412, 13922), (422, 14003), (423, 14006), (442, 14090), (444, 14096), (445, 14105), (451, 14147), (460, 14183), (461, 14201), (463, 14240), (473, 14300), (493, 14441), (505, 14501), (507, 14516), (534, 14858), (548, 15047), (549, 15056), (559, 15119), (603, 15395),

Gene: TreyKay_21 Start: 12047, Stop: 15883, Start Num: 14

Candidate Starts for TreyKay_21:

(Start: 14 @12047 has 171 MA's), (23, 12116), (29, 12203), (57, 12383), (63, 12410), (80, 12503), (89, 12563), (90, 12575), (103, 12650), (115, 12701), (124, 12743), (127, 12764), (132, 12803), (143, 12881), (155, 12959), (159, 12983), (176, 13124), (190, 13217), (192, 13226), (194, 13238), (195, 13247), (238, 13484), (243, 13508), (248, 13523), (257, 13556), (272, 13643), (278, 13667), (291, 13751), (301, 13835), (304, 13847), (308, 13868), (315, 13949), (369, 14024), (379, 14105), (387, 14153), (388, 14171), (390, 14183), (391, 14192), (397, 14228), (404, 14279), (413, 14336), (422, 14414), (424, 14423), (442, 14501), (445, 14516), (451, 14558), (461, 14612), (493, 14852), (507, 14927), (520, 15038), (532, 15257), (534, 15269), (540, 15371), (548, 15452), (549, 15461), (561, 15533), (568, 15563), (572, 15584), (587, 15704), (600, 15776), (602, 15794), (603, 15800),

Gene: TribelTrouble_19 Start: 12006, Stop: 16166, Start Num: 14

Candidate Starts for TribelTrouble_19:

(Start: 14 @12006 has 171 MA's), (23, 12075), (24, 12096), (26, 12102), (29, 12162), (54, 12327), (59, 12345), (63, 12366), (67, 12387), (75, 12411), (79, 12450), (87, 12513), (89, 12519), (90, 12531), (103, 12606), (124, 12699), (127, 12720), (132, 12759), (143, 12837), (150, 12882), (155, 12915), (159, 12939), (165, 12981), (182, 13113), (190, 13173), (194, 13194), (195, 13203), (213, 13296), (224, 13371), (234, 13416), (238, 13440), (242, 13461), (250, 13485), (256, 13509), (265, 13557), (272, 13599), (295, 13755), (301, 13812), (319, 13986), (322, 14016), (325, 14049), (348, 14187), (351, 14214), (357, 14247), (367, 14301), (369, 14319), (373, 14349), (384, 14430), (388, 14466), (400, 14541), (404, 14574), (410, 14619), (414, 14634), (422, 14715), (423, 14718), (439, 14787), (442, 14802), (444, 14808), (445, 14817), (461, 14913), (463, 14952), (477, 15030), (490, 15129), (493,

15153), (507, 15228), (537, 15654), (540, 15684), (541, 15693), (542, 15696), (549, 15774), (572, 15900), (581, 15960), (582, 15978), (598, 16056), (603, 16092), (605, 16107), (606, 16119), (611, 16158),

Gene: Trice_17 Start: 11327, Stop: 15460, Start Num: 14

Candidate Starts for Trice_17:

(10, 11288), (Start: 14 @11327 has 171 MA's), (23, 11396), (29, 11483), (37, 11561), (59, 11669), (63, 11690), (71, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (132, 12083), (143, 12161), (155, 12239), (159, 12263), (190, 12497), (208, 12578), (215, 12638), (224, 12695), (233, 12731), (238, 12764), (243, 12788), (260, 12854), (262, 12863), (272, 12923), (291, 13031), (296, 13076), (316, 13232), (324, 13343), (325, 13352), (326, 13364), (334, 13415), (338, 13433), (343, 13460), (348, 13490), (362, 13583), (369, 13622), (391, 13790), (400, 13844), (404, 13877), (412, 13922), (422, 14003), (423, 14006), (442, 14090), (444, 14096), (445, 14105), (451, 14147), (460, 14183), (461, 14201), (463, 14240), (473, 14300), (493, 14441), (505, 14501), (507, 14516), (534, 14858), (548, 15047), (549, 15056), (559, 15119), (603, 15395),

Gene: TruffulaTree_21 Start: 12076, Stop: 15912, Start Num: 14

Candidate Starts for TruffulaTree_21:

(Start: 14 @12076 has 171 MA's), (23, 12145), (29, 12232), (57, 12409), (63, 12436), (78, 12508), (79, 12520), (80, 12529), (90, 12601), (103, 12676), (122, 12760), (124, 12769), (127, 12790), (132, 12829), (143, 12907), (155, 12985), (167, 13075), (176, 13150), (190, 13243), (192, 13252), (194, 13264), (195, 13273), (243, 13534), (248, 13549), (257, 13582), (272, 13669), (278, 13693), (291, 13777), (301, 13861), (304, 13873), (308, 13894), (369, 14050), (379, 14131), (387, 14179), (388, 14197), (391, 14218), (397, 14254), (404, 14305), (413, 14362), (422, 14440), (424, 14449), (442, 14527), (451, 14584), (461, 14638), (493, 14878), (507, 14953), (520, 15064), (532, 15283), (534, 15295), (548, 15481), (549, 15490), (561, 15562), (568, 15592), (572, 15613), (587, 15733), (600, 15805), (602, 15823), (603, 15829),

Gene: Twitch_21 Start: 12116, Stop: 15949, Start Num: 14

Candidate Starts for Twitch_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (29, 12272), (37, 12347), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (136, 12905), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (445, 14582), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15518), (549, 15527), (561, 15599), (568, 15629), (572, 15650), (587, 15770), (600, 15842), (602, 15860), (603, 15866),

Gene: Unicorn_20 Start: 11123, Stop: 15124, Start Num: 15

Candidate Starts for Unicorn_20:

(Start: 15 @11123 has 38 MA's), (26, 11216), (33, 11321), (42, 11375), (45, 11393), (50, 11411), (55, 11435), (56, 11441), (62, 11468), (64, 11474), (66, 11486), (76, 11519), (88, 11615), (91, 11633), (92, 11636), (116, 11750), (118, 11765), (137, 11882), (152, 11978), (158, 12017), (163, 12038), (164, 12047), (172, 12107), (197, 12290), (198, 12296), (199, 12299), (210, 12353), (214, 12383), (223, 12443), (226, 12455), (227, 12461), (231, 12476), (236, 12497), (239, 12515), (270, 12653), (272, 12665), (277, 12686), (284, 12725), (303, 12779), (304, 12785), (315, 12887), (319, 12947), (325, 13010), (338, 13091), (341, 13106), (342, 13109), (348, 13148), (353, 13184), (355, 13199), (356, 13205), (360, 13232), (366, 13256), (375, 13331), (384, 13391), (391, 13448), (397, 13484), (404, 13535), (422, 13676), (423, 13679), (442, 13763), (447, 13790), (461, 13874), (463, 13913), (493, 14114), (507, 14189), (528, 14408), (533, 14522), (540, 14624), (541, 14633), (548, 14705), (561, 14789), (568, 14819), (572, 14840), (587, 14957), (600, 15032), (605, 15071), (606, 15083),

Gene: Urkel_21 Start: 12024, Stop: 15863, Start Num: 14

Candidate Starts for Urkel_21:

(Start: 14 @12024 has 171 MA's), (23, 12093), (29, 12180), (57, 12360), (63, 12387), (79, 12471), (80, 12480), (89, 12540), (90, 12552), (103, 12627), (115, 12678), (124, 12720), (127, 12741), (132, 12780), (143, 12858), (155, 12936), (159, 12960), (176, 13101), (190, 13194), (194, 13215), (195, 13224), (238, 13461), (243, 13485), (248, 13500), (257, 13533), (272, 13620), (288, 13707), (291, 13728), (301, 13812), (304, 13824), (308, 13845), (369, 14001), (379, 14082), (388, 14148), (391, 14169), (397, 14205), (404, 14256), (408, 14274), (413, 14313), (422, 14391), (442, 14478), (445, 14493), (451, 14535), (461, 14589), (493, 14829), (507, 14904), (520, 15015), (522, 15036), (523, 15057), (530, 15177), (540, 15351), (548, 15432), (549, 15441), (561, 15513), (568, 15543), (572, 15564), (587, 15684), (600, 15756), (602, 15774), (603, 15780),

Gene: Validus_21 Start: 11056, Stop: 15213, Start Num: 15

Candidate Starts for Validus_21:

(9, 11008), (Start: 15 @11056 has 38 MA's), (26, 11149), (27, 11161), (41, 11305), (42, 11308), (68, 11428), (82, 11515), (88, 11548), (99, 11623), (100, 11626), (116, 11692), (133, 11794), (137, 11836), (140, 11851), (141, 11860), (145, 11887), (151, 11917), (155, 11950), (163, 11992), (172, 12061), (197, 12247), (198, 12253), (207, 12289), (210, 12310), (212, 12322), (214, 12340), (223, 12400), (226, 12412), (227, 12418), (231, 12433), (235, 12451), (236, 12454), (242, 12487), (266, 12583), (272, 12622), (277, 12643), (283, 12673), (287, 12706), (298, 12790), (301, 12820), (304, 12832), (315, 12934), (321, 13012), (325, 13057), (327, 13081), (337, 13135), (338, 13138), (341, 13153), (342, 13156), (348, 13195), (351, 13222), (355, 13246), (356, 13252), (360, 13279), (369, 13327), (375, 13378), (378, 13396), (383, 13432), (384, 13438), (387, 13456), (389, 13483), (391, 13495), (400, 13549), (404, 13582), (414, 13642), (422, 13723), (423, 13726), (442, 13810), (445, 13825), (451, 13867), (463, 13960), (475, 14026), (493, 14161), (529, 14509), (541, 14701), (548, 14773), (549, 14782), (553, 14803), (556, 14845), (587, 15040), (589, 15052), (600, 15112), (603, 15136), (607, 15175),

Gene: Veliki_21 Start: 12116, Stop: 15952, Start Num: 14

Candidate Starts for Veliki_21:

(Start: 14 @12116 has 171 MA's), (23, 12185), (24, 12206), (29, 12272), (57, 12449), (63, 12476), (78, 12548), (79, 12560), (80, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (132, 12869), (143, 12947), (155, 13025), (167, 13115), (176, 13190), (190, 13283), (192, 13292), (194, 13304), (195, 13313), (238, 13550), (248, 13589), (257, 13622), (272, 13709), (278, 13733), (291, 13817), (301, 13901), (304, 13913), (308, 13934), (369, 14090), (379, 14171), (387, 14219), (388, 14237), (391, 14258), (397, 14294), (404, 14345), (413, 14402), (422, 14480), (424, 14489), (442, 14567), (451, 14624), (461, 14678), (493, 14918), (507, 14993), (520, 15104), (532, 15323), (534, 15335), (548, 15521), (549, 15530), (561, 15602), (568, 15632), (572, 15653), (587, 15773), (600, 15845), (602, 15863), (603, 15869),

Gene: ViviJ_18 Start: 11997, Stop: 16103, Start Num: 13

Candidate Starts for ViviJ_18:

(Start: 13 @11997 has 20 MA's), (24, 12090), (30, 12168), (31, 12192), (39, 12252), (59, 12336), (61, 12348), (80, 12450), (89, 12510), (90, 12522), (95, 12543), (103, 12597), (114, 12645), (124, 12690), (127, 12711), (143, 12828), (155, 12906), (159, 12930), (167, 12996), (176, 13071), (190, 13164), (195, 13194), (226, 13368), (228, 13377), (234, 13407), (238, 13431), (242, 13452), (259, 13512), (272, 13590), (274, 13599), (288, 13677), (296, 13743), (302, 13785), (304, 13794), (311, 13878), (316, 13899), (317, 13932), (323, 13998), (325, 14019), (332, 14073), (334, 14082), (338, 14100), (342, 14118), (343, 14127), (348, 14157), (353, 14193), (361, 14247), (368, 14283), (369, 14289), (371, 14307), (386, 14412), (392, 14478), (422, 14673), (428, 14703), (436, 14736), (447, 14787), (448, 14808), (452, 14823), (453, 14829), (463, 14913), (471, 14961), (480, 15000), (486, 15060), (491, 15093), (496, 15114), (499, 15138), (505, 15168), (516, 15234), (522, 15306), (540, 15621),

(541, 15630), (542, 15633), (544, 15675), (548, 15702), (553, 15732), (561, 15783), (566, 15801), (577, 15867), (583, 15915), (587, 15939), (589, 15951), (604, 16032), (606, 16056), (611, 16095),

Gene: Waterfoul_19 Start: 12158, Stop: 16267, Start Num: 13

Candidate Starts for Waterfoul_19:

(Start: 13 @12158 has 20 MA's), (39, 12416), (59, 12500), (75, 12566), (80, 12614), (89, 12674), (90, 12686), (95, 12707), (103, 12761), (110, 12791), (124, 12854), (127, 12875), (134, 12932), (143, 12992), (155, 13070), (159, 13094), (165, 13136), (169, 13169), (190, 13328), (194, 13349), (213, 13427), (222, 13490), (225, 13505), (226, 13508), (228, 13517), (229, 13523), (232, 13535), (241, 13589), (266, 13691), (272, 13730), (296, 13883), (302, 13925), (307, 13949), (316, 14039), (317, 14072), (332, 14213), (334, 14222), (338, 14240), (343, 14267), (354, 14345), (369, 14429), (386, 14552), (392, 14618), (410, 14720), (422, 14813), (424, 14822), (428, 14843), (436, 14876), (447, 14927), (448, 14948), (452, 14963), (453, 14969), (463, 15053), (467, 15083), (471, 15101), (480, 15140), (486, 15200), (491, 15233), (496, 15254), (499, 15278), (505, 15311), (516, 15395), (522, 15467), (540, 15776), (544, 15830), (546, 15845), (548, 15857), (553, 15887), (583, 16073), (587, 16097), (589, 16109), (604, 16196), (606, 16220),

Gene: Wendigo_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Wendigo_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Ximenita_21 Start: 11247, Stop: 15251, Start Num: 15

Candidate Starts for Ximenita_21:

(Start: 15 @11247 has 38 MA's), (26, 11340), (33, 11445), (42, 11499), (45, 11517), (55, 11559), (62, 11592), (64, 11598), (79, 11679), (88, 11739), (91, 11757), (92, 11760), (116, 11874), (118, 11889), (137, 12006), (142, 12033), (152, 12102), (163, 12162), (164, 12171), (165, 12183), (172, 12231), (197, 12414), (198, 12420), (199, 12423), (223, 12567), (226, 12579), (227, 12585), (231, 12600), (236, 12621), (239, 12639), (270, 12777), (272, 12789), (277, 12810), (284, 12849), (303, 12903), (304, 12909), (315, 13011), (319, 13071), (325, 13134), (337, 13212), (338, 13215), (341, 13230), (348, 13272), (351, 13299), (353, 13308), (355, 13323), (356, 13329), (360, 13356), (366, 13380), (367, 13386), (373, 13434), (375, 13455), (387, 13533), (388, 13551), (391, 13572), (397, 13608), (404, 13659), (422, 13800), (424, 13809), (442, 13887), (461, 13998), (462, 14010), (493, 14238), (507, 14313), (541, 14757), (548, 14829), (549, 14838), (561, 14913), (568, 14943), (572, 14964), (587, 15081), (600, 15156), (605, 15195), (606, 15207), (612, 15246),

Gene: YangYin_16 Start: 11787, Stop: 15824, Start Num: 15

Candidate Starts for YangYin_16:

(Start: 15 @11787 has 38 MA's), (25, 11880), (45, 12063), (47, 12072), (64, 12144), (73, 12180), (82, 12252), (84, 12258), (86, 12273), (88, 12285), (91, 12303), (98, 12348), (107, 12384), (111, 12399), (114, 12414), (116, 12420), (133, 12522), (137, 12564), (140, 12579), (145, 12615), (155, 12678), (158, 12699), (169, 12771), (172, 12789), (191, 12930), (197, 12972), (204, 13002), (205, 13005), (207, 13014), (209, 13023), (214, 13065), (225, 13134), (226, 13137), (227, 13143), (231, 13158), (236, 13179), (237, 13188), (260, 13284), (272, 13347), (278, 13371), (280, 13383), (281, 13386), (289, 13443), (294, 13476), (298, 13515), (304, 13557), (313, 13653), (316, 13662), (320, 13722), (321, 13737), (324, 13773), (336, 13857), (344, 13902), (347, 13917), (350, 13944), (366, 14028),

(369, 14052), (375, 14103), (376, 14109), (392, 14241), (417, 14373), (426, 14457), (429, 14472), (446, 14538), (459, 14607), (464, 14688), (466, 14697), (484, 14790), (488, 14847), (492, 14880), (530, 15237), (542, 15426), (543, 15453), (548, 15495), (555, 15573), (585, 15732), (588, 15750), (591, 15765),

Gene: YoureAdopted_20 Start: 12049, Stop: 15885, Start Num: 14

Candidate Starts for YoureAdopted_20:

(Start: 14 @12049 has 171 MA's), (23, 12118), (24, 12139), (29, 12205), (57, 12382), (63, 12409), (78, 12481), (79, 12493), (80, 12502), (90, 12574), (103, 12649), (122, 12733), (124, 12742), (127, 12763), (132, 12802), (143, 12880), (155, 12958), (167, 13048), (176, 13123), (190, 13216), (192, 13225), (194, 13237), (195, 13246), (238, 13483), (248, 13522), (257, 13555), (272, 13642), (278, 13666), (291, 13750), (301, 13834), (304, 13846), (308, 13867), (369, 14023), (379, 14104), (387, 14152), (388, 14170), (391, 14191), (397, 14227), (404, 14278), (413, 14335), (422, 14413), (424, 14422), (442, 14500), (445, 14515), (451, 14557), (461, 14611), (493, 14851), (507, 14926), (520, 15037), (532, 15256), (534, 15268), (548, 15454), (549, 15463), (568, 15565), (572, 15586), (587, 15706), (600, 15778), (602, 15796), (603, 15802),

Gene: Yuna_21 Start: 11197, Stop: 15186, Start Num: 15

Candidate Starts for Yuna_21:

(Start: 15 @11197 has 38 MA's), (26, 11290), (43, 11458), (49, 11479), (56, 11515), (64, 11548), (65, 11551), (66, 11560), (73, 11584), (86, 11677), (88, 11689), (92, 11710), (131, 11926), (137, 11965), (140, 11980), (145, 12016), (154, 12076), (155, 12079), (163, 12121), (172, 12190), (197, 12376), (198, 12382), (199, 12385), (200, 12391), (207, 12418), (209, 12427), (210, 12439), (214, 12469), (223, 12529), (226, 12541), (227, 12547), (231, 12562), (235, 12580), (236, 12583), (239, 12601), (258, 12676), (270, 12739), (272, 12751), (277, 12772), (284, 12811), (300, 12856), (304, 12871), (319, 13033), (325, 13096), (328, 13123), (342, 13195), (348, 13234), (355, 13285), (357, 13294), (358, 13306), (364, 13336), (366, 13342), (369, 13366), (384, 13477), (387, 13495), (391, 13534), (404, 13621), (405, 13633), (422, 13762), (423, 13765), (442, 13849), (462, 13972), (493, 14200), (505, 14260), (507, 14275), (531, 14590), (541, 14722), (543, 14752), (547, 14791), (548, 14794), (551, 14812), (561, 14866), (568, 14896), (572, 14917), (587, 15028), (603, 15121),

Gene: Yunkel11_21 Start: 11016, Stop: 15143, Start Num: 15

Candidate Starts for Yunkel11_21:

(9, 10968), (Start: 15 @11016 has 38 MA's), (26, 11109), (38, 11241), (41, 11265), (47, 11295), (52, 11316), (55, 11328), (68, 11388), (82, 11475), (88, 11508), (91, 11526), (92, 11529), (105, 11601), (133, 11745), (137, 11787), (140, 11802), (145, 11838), (156, 11910), (172, 12012), (197, 12195), (203, 12222), (208, 12240), (209, 12246), (214, 12288), (226, 12360), (227, 12366), (231, 12381), (236, 12402), (239, 12420), (242, 12435), (255, 12483), (262, 12516), (266, 12531), (272, 12570), (277, 12591), (283, 12621), (306, 12789), (309, 12840), (325, 13005), (327, 13029), (338, 13086), (346, 13137), (351, 13170), (353, 13179), (366, 13251), (375, 13326), (378, 13344), (384, 13386), (387, 13404), (389, 13431), (391, 13443), (409, 13572), (414, 13590), (422, 13671), (423, 13674), (442, 13758), (450, 13812), (451, 13815), (463, 13908), (475, 13974), (493, 14109), (514, 14235), (540, 14631), (541, 14640), (548, 14712), (561, 14796), (587, 14964), (600, 15036), (603, 15060), (607, 15099),

Gene: Zabiza_21 Start: 12077, Stop: 15916, Start Num: 14

Candidate Starts for Zabiza_21:

(Start: 14 @12077 has 171 MA's), (23, 12146), (29, 12233), (57, 12410), (63, 12437), (78, 12509), (79, 12521), (80, 12530), (90, 12602), (103, 12677), (122, 12761), (124, 12770), (127, 12791), (132, 12830), (143, 12908), (155, 12986), (167, 13076), (176, 13151), (190, 13244), (192, 13253), (194, 13265), (195, 13274), (243, 13535), (248, 13550), (257, 13583), (272, 13670), (278, 13694), (291, 13778), (301, 13862), (304, 13874), (308, 13895), (369, 14051), (379, 14132), (387, 14180), (388, 14198), (391, 14219), (397, 14255), (404, 14306), (413, 14363), (422, 14441), (424, 14450), (442,

14528), (451, 14585), (461, 14639), (493, 14879), (507, 14954), (520, 15065), (532, 15284), (534, 15296), (548, 15485), (549, 15494), (561, 15566), (568, 15596), (572, 15617), (587, 15737), (600, 15809), (602, 15827), (603, 15833),

Gene: Zavala_21 Start: 12057, Stop: 15890, Start Num: 14

Candidate Starts for Zavala_21:

(Start: 14 @12057 has 171 MA's), (23, 12126), (29, 12213), (57, 12390), (63, 12417), (78, 12489), (79, 12501), (80, 12510), (90, 12582), (103, 12657), (122, 12741), (124, 12750), (127, 12771), (132, 12810), (143, 12888), (155, 12966), (167, 13056), (176, 13131), (190, 13224), (192, 13233), (194, 13245), (195, 13254), (238, 13491), (248, 13530), (257, 13563), (272, 13650), (278, 13674), (291, 13758), (301, 13842), (304, 13854), (308, 13875), (369, 14031), (387, 14160), (388, 14178), (391, 14199), (397, 14235), (404, 14286), (413, 14343), (422, 14421), (424, 14430), (442, 14508), (445, 14523), (451, 14565), (461, 14619), (493, 14859), (507, 14934), (520, 15045), (532, 15264), (534, 15276), (548, 15459), (549, 15468), (561, 15540), (568, 15570), (572, 15591), (587, 15711), (600, 15783), (602, 15801), (603, 15807),

Gene: ZoMa_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for ZoMa_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),

Gene: Zombie_16 Start: 11464, Stop: 15477, Start Num: 14

Candidate Starts for Zombie_16:

(Start: 14 @11464 has 171 MA's), (32, 11665), (53, 11779), (63, 11821), (70, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (132, 12214), (133, 12217), (135, 12238), (136, 12250), (147, 12322), (155, 12370), (173, 12502), (175, 12526), (186, 12607), (211, 12730), (222, 12814), (230, 12850), (238, 12895), (239, 12901), (264, 13009), (268, 13033), (272, 13054), (307, 13273), (320, 13423), (328, 13510), (347, 13618), (369, 13753), (384, 13864), (387, 13882), (390, 13912), (420, 14134), (426, 14158), (429, 14173), (433, 14194), (442, 14221), (447, 14248), (458, 14308), (466, 14398), (472, 14431), (484, 14494), (488, 14551), (492, 14584), (495, 14593), (542, 15097), (543, 15124), (546, 15154), (548, 15166), (549, 15175), (561, 15244), (577, 15325), (585, 15385), (588, 15403), (590, 15412),