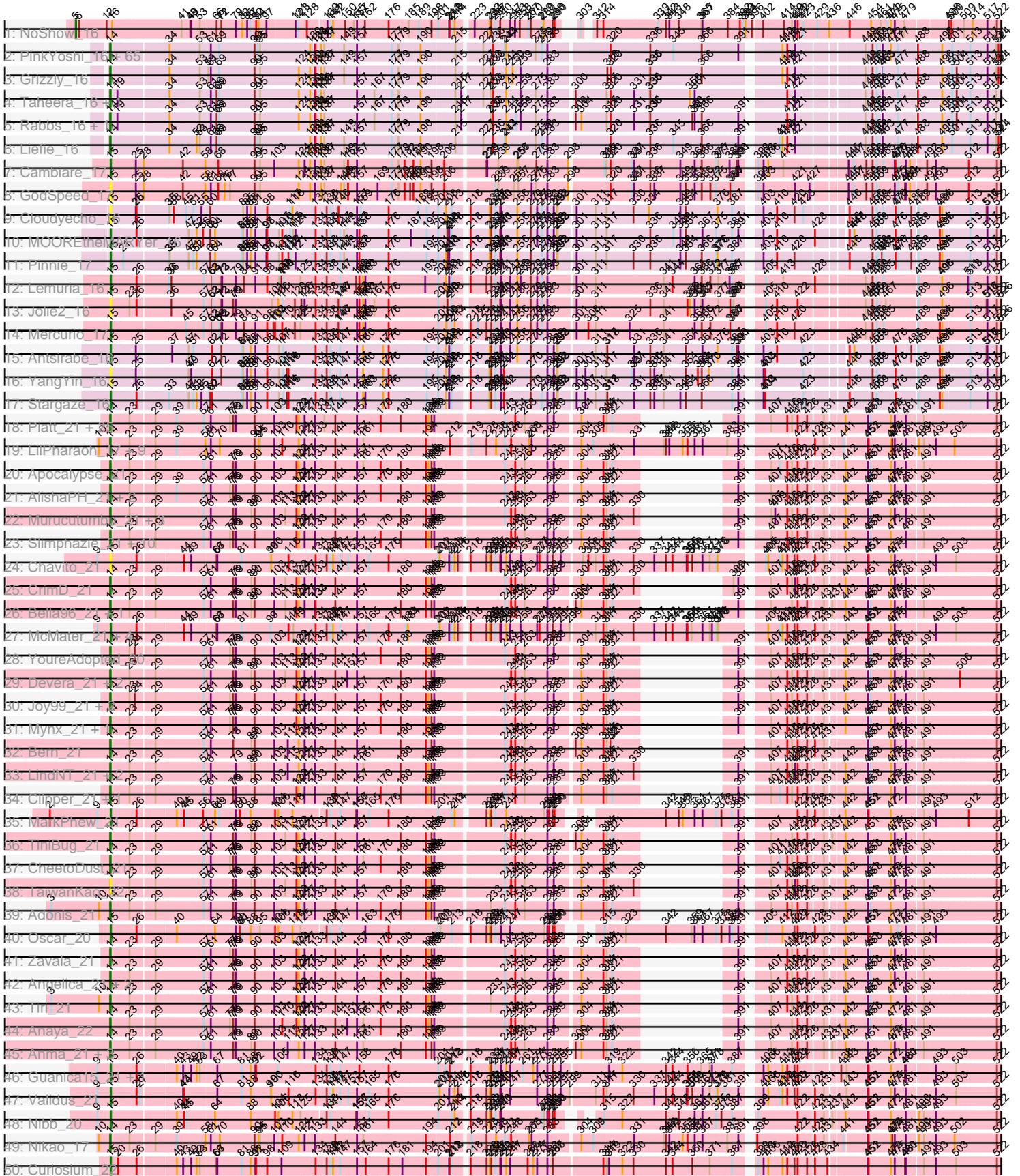# Zoomed Pham 290789

Zoomed Pham 290789

Zoomed Pham 290789

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 290789 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290789 has 274 members, 33 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, DingDing_16, LouisV14_16, Jolene_16, Rattrick_16, Periodt_16, AizenPogi_16, BQuat_16, Jane_16, Zombie_16, CassieYates_16, Camri_16, Angel_16, Halo_16, OctaviousRex_16, DMoney_16, ECartman_16, Barkley26_16, Kasen3_16, Richarlison_16, Wendigo_16, Remy19_16, Gomashi_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, MZKinsey_16, Coleslaw_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, Boiiii_21, Peel_21, Blizzard_21, Topper_21, Inky_21, Asayake_21, BGlluviae_21, Capricorn_21, Jeckyll_21, CREW_21, Padfoot_21, Rosmarinus_21, Twitch_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, Nutello_17, Amelie_17, Teejan_17, SgtBeansprout_17, Enkosi_17, Trice_17, Torres_17, Biglebops_17
• Track 20 : Apocalypse_21
• Track 21 : AlishaPH_21, Emerson_21, Padpat_21

- Track 22 : Murucutumbu_21, Ageofdapage_21, Stinson_21, LaterM_21
- Track 23 : Slimphazie_21, Jayhawk_21, HedwigODU_21, ActinUp_21, Tachez_21, Zabiza_21, Atiba_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 : Bern_21
- Track 33 : LindNT_21, TreyKay_21, Prithvi_21
- Track 34 : Clipper_21, MacKat_21
- Track 35 : MarkPhew_21
- Track 36 : TiniBug_21
- Track 37 : CheetoDust_21
- Track 38 : TaiwanKao_22
- Track 39 : Adonis_21
- Track 40 : Oscar_20
- Track 41 : Zavala_21
- Track 42 : Angelica_21, Deby_21, Sulley_21
- Track 43 : Tiri_21
- Track 44 : Anaya_22
- Track 45 : Anma_21, SamuelLPlaqson_21, DrHayes_21, Urkel_21
- Track 46 : Guanica15_21, Yunkel11_21
- Track 47 : Validus_21
- Track 48 : Nibb_20
- Track 49 : Nikao_17
- Track 50 : Curiosium_22
- Track 51 : Pisa1_20, Pisa4_20
- Track 52 : Beezoo_21
- Track 53 : CallaLilly_21
- Track 54 : Shaobing_21
- Track 55 : LeMond_20
- Track 56 : Scarlett_20
- Track 57 : Veliki_21
- Track 58 : KiSi_20
- Track 59 : Chris_20
- Track 60 : Efra2_21
- Track 61 : LastHope_21
- Track 62 : Homura_21
- Track 63 : QuincyRose_20
- Track 64 : Ganymede_22
- Track 65 : Megsy_21
- Track 66 : TingHuaYa_21
- Track 67 : Llorens_21
- Track 68 : ZoeJ_17
- Track 69 : Doughnut_17
- Track 70 : Milly_17
- Track 71 : DismalStressor_17, DismalFunk_17, Marcoliusprime_17
- Track 72 : BoostSeason_17
- Track 73 : Mufasa_17

- Track 74 : Strobilo_17
- Track 75 : Findley_17
- Track 76 : Neighly_19, Larva_19
- Track 77 : MacnCheese_21
- Track 78 : TBond007_20
- Track 79 : Pharb_20
- Track 80 : Keshu_20
- Track 81 : Pixie_20
- Track 82 : Hurricane_20
- Track 83 : TribleTrouble_19
- Track 84 : Lea83_20, ShedlockHolmes_20
- Track 85 : Paola_19, Gengar_19, Guillsminger_19, Leston_19
- Track 86 : LilDirt_18, Collard_19, InvictusManeo_19, ViviJ_18, DoubleChamp_19, Agent47_19, BananenDer11_19
- Track 87 : Thyatira_19, Waterfoul_19
- Track 88 : Miryou_19
- Track 89 : Kratio_18
- Track 90 : Psycho_19
- Track 91 : Dadosky_19
- Track 92 : Feyre_19
- Track 93 : AlleyCat_19
- Track 94 : OkiRoe_19
- Track 95 : SoSeph_19, Heftyboy_19
- Track 96 : Edugator_18
- Track 97 : PhelpsODU_20, Unicorn_20
- Track 98 : DarthP_20, Hammy_20
- Track 99 : Krueger_20
- Track 100 : Syra333_20
- Track 101 : November_19
- Track 102 : Amgine_19
- Track 103 : Fefferhead_20
- Track 104 : Cain_20, Tierra_20, Bryler_20, Phrank_20
- Track 105 : Applecrisp_19
- Track 106 : Shadow1_19
- Track 107 : Amohnition_20
- Track 108 : TClif_20
- Track 109 : Yuna_21
- Track 110 : Ximenita_21
- Track 111 : SirPhilip_20
- Track 112 : Lavahound_19
- Track 113 : Sunflower1121_19
- Track 114 : Marshawn_22
- Track 115 : Ekdilam_18
- Track 116 : Ellie_18
- Track 117 : Tigress9_20
- Track 118 : 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 241 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, Biglebops_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, MZKinsey_16, MacKat_21, MacnCheese_21, Maliketh_16, Marmie_16, Mdavu_17, MeaningOfLife_21, Megsy_21, Mowgli_16, Murucutumbu_21, Mynx_21, Neoh_16, Nikao_17, 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, SamuelLPlaqson_21, Schiebel_16, SgtBeansprout_17, ShaboiShabazz_16, ShedlockHolmes_20, ShiaSurprise_21, Sizemore_16, Slimphazie_21, Sneeze_16, Spock_21, Stinson_21, Sulley_21, Sweets_16, TBond007_20, Tachez_21, Taheera_16, TaiwanKao_22, Teejan_17, Terror_16, TinaBug_16, TiniBug_21, Tiri_21, TomBrady_16, Topper_21, Torres_17, TreyKay_21, TribleTrouble_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, BoostSeason_17, Bryler_20, Cain_20, Cambiare_17, Chavito_21, Chris_20, Cloudyecho_16, Collard_19, Curiosium_22, Dadosky_19, Dartin_21, DismalFunk_17, DismalStressor_17, DoubleChamp_19, Doughnut_17, Edugator_18, Efra2_21, Feyre_19, Findley_17, 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, LilDirt_18, MOOREtheMARYer_16, Marcoliusprime_17, MarkPhew_21, Marshawn_22, McMater_21, Mercurio_17, Milly_17, Miryou_19, Mufasa_17, 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, Strobilo_17, 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, ZoeJ_17,

Summary by start number:

Start 5:
• Found in 1 of 274 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 241
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NoShow_16 (AB),

Start 11:
• Found in 2 of 274 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 241
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Psycho_19 (K5),

Start 13:
• Found in 35 of 274 (12.8%) of genes in pham
• Manual Annotations of this start: 30 of 241
• Called 97.1% of time when present
• Phage (with cluster) where this start called: Agent47_19 (K5), AlleyCat_19 (K5), BananenDer11_19 (K5), BoostSeason_17 (K2), Collard_19 (K5), Dadosky_19 (K5), DismalFunk_17 (K2), DismalStressor_17 (K2), DoubleChamp_19 (K5), Doughnut_17 (K2), Edugator_18 (K5), Feyre_19 (K5), Findley_17 (K2), Gengar_19 (K5), Guillsminger_19 (K5), Heftyboy_19 (K5), InvictusManeo_19 (K5), Kratio_18 (K5), Larva_19 (K5), Leston_19 (K5), LilDirt_18 (K5), Marcoliusprime_17 (K2), Milly_17 (K2), Miryou_19 (K5), Mufasa_17 (K2), Neighly_19 (K3), OkiRoe_19 (K5), Paola_19 (K5), SoSeph_19 (K5), Strobilo_17 (K2), Thyatira_19 (K5), ViviJ_18 (K5), Waterfoul_19 (K5), ZoeJ_17 (K2),

Start 14:
• Found in 190 of 274 (69.3%) of genes in pham
• Manual Annotations of this start: 171 of 241
• 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), Biglebops_17 (K1), Blizzard_21 (K1), Boiiii_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), DNAIII_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), MZKinsey_16 (G1), MacKat_21 (K1), MacnCheese_21 (K3), Maliketh_16 (G1), Marmie_16 (G1), Mdavu_17 (K1), MeaningOfLife_21 (K1), Megsy_21 (K1), Mowgli_16 (G1), Murucutumbu_21 (K1), Mynx_21 (K1), Neoh_16 (G), Nikao_17 (K1), 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), SamuelLPlaqson_21 (K1), Schiebel_16 (G1), SgtBeansprout_17 (K1), ShaboiShabazz_16 (G1), ShedlockHolmes_20 (K3), ShiaSurprise_21 (K1), Sizemore_16 (G1), Slimphazie_21 (K1), Sneeze_16 (G1), Spock_21 (K1), Stinson_21 (K1), Sulley_21 (K1), Sweets_16 (G1), TBond007_20 (K3), Tachez_21 (K1), Taheera_16 (G1), TaiwanKao_22 (K1), Teejan_17 (K1), Terror_16 (G1), TinaBug_16 (G1), TiniBug_21 (K1), Tiri_21 (K1), TomBrady_16 (G1), Topper_21 (K1), Torres_17 (K1), TreyKay_21 (K1), TribleTrouble_19 (K3), Trice_17 (K1), TruffulaTree_21 (K1), Twitch_21 (K1), Urkel_21 (K1), Veliki_21 (K1), Wendigo_16 (G1), YoureAdopted_20 (K1), Zabiza_21 (K1), Zavala_21 (K1), ZoMa_16 (G1), Zombie_16 (G1),

Start 15:
• Found in 48 of 274 (17.5%) of genes in pham
• Manual Annotations of this start: 38 of 241
• 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 13 clusters represented in this pham: G5, G4, G3, G1, G, K3, K2, 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 K2:
•Start number 13 was manually annotated 10 times for cluster K2.

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), (61, 12439), (77, 12511), (78, 12523), (79, 12532), (90, 12604), (103, 12679), (122, 12763), (124, 12772), (127, 12793), (133, 12832), (144, 12910), (157, 12988), (170, 13078), (180, 13153), (194, 13246), (196, 13255), (198, 13267), (199, 13276), (248, 13537), (254, 13552), (263, 13585), (283, 13672), (289, 13696), (304, 13780), (314, 13864), (317, 13876), (321, 13897), (391, 14053), (407, 14134), (416, 14182), (419, 14200), (422, 14221), (426, 14257), (431, 14308), (442, 14365), (451, 14443), (453, 14452), (472, 14530), (481, 14587), (491, 14641), (522, 14881), (535, 14956), (548, 15067), (560, 15286), (562, 15298), (577, 15487), (578, 15496), (590, 15568), (598, 15598), (603, 15619), (620, 15739), (629, 15811), (631, 15829), (632, 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), (61, 12439), (77, 12511), (78, 12523), (79, 12532), (90, 12604), (103, 12679), (122, 12763), (124, 12772), (127, 12793), (133, 12832), (144, 12910), (157, 12988), (170, 13078), (180, 13153), (194, 13246), (196, 13255), (198, 13267), (199, 13276), (248, 13537), (254, 13552), (263, 13585), (283, 13672), (289, 13696), (304, 13780), (314, 13864), (317, 13876), (321, 13897), (391, 14053), (407, 14134), (416, 14182), (419, 14200), (422, 14221), (426, 14257), (431, 14308), (442, 14365), (451, 14443), (453, 14452), (472, 14530), (481, 14587), (491, 14641), (522, 14881), (535, 14956), (548, 15067), (560, 15286), (562, 15298), (577, 15484), (578, 15493), (590, 15565), (598, 15595), (603, 15616), (620, 15736), (629, 15808), (631, 15826), (632, 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), (61, 12448), (78, 12532), (79, 12541), (90, 12613), (103, 12688), (122, 12772), (124, 12781), (127, 12802), (133, 12841), (144, 12919), (157, 12997), (170, 13087), (180, 13162), (194, 13255), (196, 13264), (198, 13276), (199, 13285), (233, 13468), (243, 13522), (254, 13561), (263, 13594), (283, 13681), (289, 13705), (304, 13789), (314, 13873), (317, 13885), (321, 13906), (391, 14062), (407, 14143), (416, 14191), (419, 14209), (422, 14230), (426, 14266), (431, 14317), (442, 14374), (451, 14452), (453, 14461), (472, 14539), (481, 14596), (491, 14650), (522, 14890), (535, 14965), (548, 15076), (560, 15295), (562, 15307), (577, 15490), (578, 15499), (598, 15601), (603, 15622), (620, 15742), (629, 15814), (631, 15832), (632, 15838),

Gene: Agent47_19 Start: 12236, Stop: 16342, Start Num: 13
Candidate Starts for Agent47_19:
(Start: 13 @12236 has 30 MA's), (24, 12329), (30, 12407), (32, 12431), (42, 12491), (58, 12575), (59, 12587), (79, 12689), (89, 12749), (90, 12761), (95, 12782), (103, 12836), (114, 12884), (124, 12929), (127, 12950), (144, 13067), (157, 13145), (161, 13169), (170, 13235), (180, 13310), (194, 13403), (199, 13433), (230, 13607), (233, 13616), (239, 13646), (243, 13670), (247, 13691), (265, 13751), (283, 13829), (285, 13838), (300, 13916), (309, 13982), (315, 14024), (317, 14033), (324, 14117), (331, 14138), (333, 14171), (340, 14237), (342, 14258), (349, 14312), (352, 14321), (356, 14339), (360, 14357), (361, 14366), (367, 14396), (373, 14432), (382, 14486), (390, 14522), (391, 14528), (393, 14546), (415, 14651), (423, 14717), (451, 14912), (458, 14942), (466, 14975), (477, 15026), (478, 15047), (482, 15062), (483, 15068), (493, 15152), (499, 15200), (507, 15239), (515, 15299), (516, 15332), (520, 15353), (526, 15377), (530, 15407), (543, 15473), (550, 15545), (569, 15860), (570, 15869), (571, 15872), (573, 15914), (577, 15941), (582, 15971), (590, 16022), (596, 16040), (608, 16106), (614, 16154), (620, 16178), (622, 16190), (633, 16271), (635, 16295), (640, 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), (61, 12378), (78, 12462), (79, 12471), (89, 12531), (90, 12543), (103, 12618), (113, 12660), (122, 12702), (124, 12711), (127, 12732), (133, 12771), (144, 12849), (157, 12927), (180, 13092), (194, 13185), (198, 13206), (199, 13215), (243, 13452), (248, 13476), (254, 13491), (263, 13524), (283, 13611), (304, 13719), (314, 13803), (317, 13815), (321, 13836), (330, 13917), (391, 13992), (407, 14073), (409, 14082), (416, 14121), (419, 14139), (422, 14160), (426, 14196), (431, 14247), (442, 14304), (451, 14382), (453, 14391), (472, 14469), (475, 14484), (481, 14526), (491, 14580), (522, 14820), (535, 14895), (548, 15006), (560, 15225), (569, 15339), (577, 15420), (578, 15429), (590, 15501), (598, 15531), (603, 15552), (620, 15669), (629, 15741), (632, 15765),

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

Candidate Starts for AizenPogi_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (39, 12306), (57, 12408), (61, 12435), (77, 12507), (78, 12519), (79, 12528), (90, 12600), (103, 12675), (122, 12759), (124, 12768), (127, 12789), (133, 12828), (144, 12906), (157, 12984), (170, 13074), (180, 13149), (194, 13242), (196, 13251), (198, 13263), (199, 13272), (243, 13509), (254, 13548), (263, 13581), (283, 13668), (289, 13692), (304, 13776), (314, 13860), (317, 13872), (321, 13893), (391, 14049), (407, 14130), (416, 14178), (419, 14196), (422, 14217), (426, 14253), (431, 14304), (442, 14361), (451, 14439), (453, 14448), (472, 14526), (475, 14541), (481, 14583), (491, 14637), (522, 14877), (535, 14952), (548, 15063), (560, 15282), (562, 15294), (577, 15477), (578, 15486), (590, 15558), (598, 15588), (603, 15609), (620, 15729), (629, 15801), (631, 15819), (632, 15825),

Gene: AlleyCat_19 Start: 12112, Stop: 16224, Start Num: 13
Candidate Starts for AlleyCat_19:
(Start: 13 @12112 has 30 MA's), (24, 12205), (30, 12283), (32, 12307), (42, 12367), (58, 12451), (79, 12565), (89, 12625), (90, 12637), (95, 12658), (103, 12712), (114, 12760), (124, 12805), (127, 12826), (144, 12943), (157, 13021), (161, 13045), (167, 13087), (170, 13111), (180, 13186), (194, 13279), (199, 13309), (230, 13483), (239, 13522), (243, 13546), (247, 13567), (265, 13627), (283, 13705), (285, 13714), (300, 13792), (309, 13858), (315, 13900), (317, 13909), (324, 13993), (331, 14014), (333, 14047), (334, 14068), (340, 14113), (342, 14134), (349, 14188), (352, 14197), (356, 14215), (361, 14242), (367, 14272), (373, 14308), (390, 14398), (391, 14404), (393, 14422), (415, 14527), (423, 14593), (451, 14788), (458, 14818), (466, 14851), (477, 14902), (478, 14923), (482, 14938), (483, 14944), (493, 15028), (499, 15076), (507, 15115), (515, 15175), (516, 15208), (520, 15229), (526, 15253), (530, 15283), (543, 15349), (550, 15421), (569, 15736), (570, 15745), (571, 15748), (572, 15775), (573, 15790), (575, 15805), (577, 15817), (582, 15847), (590, 15901), (596, 15919), (608, 15988), (614, 16036), (620, 16060), (622, 16072), (624, 16081), (633, 16153), (635, 16177), (640, 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), (39, 11561), (58, 11669), (61, 11690), (70, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (133, 12083), (144, 12161), (157, 12239), (161, 12263), (194, 12497), (212, 12578), (219, 12638), (228, 12695), (238, 12731), (243, 12764), (248, 12788), (268, 12854), (271, 12863), (283, 12923), (304, 13031), (309, 13076), (331, 13232), (341, 13343), (342, 13352), (343, 13364), (352, 13415), (356, 13433), (361, 13460), (367, 13490), (383, 13583), (391, 13622), (422, 13790), (428, 13844), (431, 13877), (441, 13922), (451, 14003), (452, 14006), (472, 14090), (474, 14096), (475, 14105), (481, 14147), (490, 14183), (491, 14201), (493, 14240), (502, 14300), (522, 14441), (533, 14501), (535, 14516), (562, 14858), (577, 15047), (578, 15056), (588, 15119), (632, 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), (39, 12094), (57, 12196), (58, 12202), (61, 12223), (89, 12376), (90, 12388), (103, 12463), (124, 12556), (127, 12577), (133, 12616), (144, 12694), (157, 12772), (161, 12796), (169, 12850), (170, 12862), (180, 12937), (194, 13030), (212, 13111), (221, 13174), (228, 13228), (235, 13249), (237, 13261), (243, 13297), (247, 13318), (257, 13345), (263, 13369), (269, 13390), (275, 13411), (283, 13456), (303, 13582), (309, 13630), (319, 13690), (320, 13696), (331, 13786), (341, 13897), (347, 13948), (348, 13954), (360, 14005), (367, 14044), (369, 14065), (391, 14176), (405, 14236), (410, 14269), (412, 14287), (416, 14305), (419, 14323), (421, 14335), (426, 14380), (431, 14431), (440, 14479), (451, 14557), (472, 14644), (474, 14650), (484, 14716), (485, 14719), (493, 14794), (503, 14860), (522, 14995), (533, 15055), (535, 15070), (537, 15076), (570, 15526), (577, 15598), (578, 15607), (592, 15694), (620, 15847), (632, 15946), (635, 15973), (636, 15985),

Gene: Aminay_19 Start: 11993, Stop: 16294, Start Num: 14
Candidate Starts for Aminay_19:
(Start: 14 @11993 has 171 MA's), (17, 12002), (22, 12041), (24, 12083), (29, 12149), (34, 12194), (53, 12308), (63, 12356), (74, 12395), (75, 12398), (78, 12434), (89, 12503), (90, 12515), (94, 12530), (95, 12536), (124, 12683), (127, 12704), (133, 12743), (134, 12746), (144, 12821), (152, 12866), (157, 12899), (161, 12923), (170, 12989), (171, 12992), (174, 13010), (176, 13019), (178, 13052), (182, 13076), (186, 13097), (205, 13214), (229, 13355), (230, 13358), (233, 13367), (243, 13421), (244, 13427), (252, 13457), (262, 13490), (269, 13514), (277, 13541), (283, 13580), (286, 13595), (288, 13601), (294, 13628), (300, 13688), (303, 13706), (308, 13736), (310, 13757), (317, 13805), (318, 13808), (319, 13814), (321, 13826), (329, 13904), (342, 14030), (353, 14099), (357, 14117), (363, 14150), (364, 14153), (368, 14180), (380, 14234), (391, 14288), (395, 14327), (397, 14348), (401, 14372), (408, 14420), (417, 14480), (418, 14489), (425, 14546), (428, 14579), (429, 14588), (435, 14630), (443, 14696), (451, 14777), (453, 14786), (493, 14993), (522, 15194), (535, 15269), (539, 15299), (554, 15485), (570, 15749), (573, 15794), (577, 15821), (596, 15947), (599, 15965), (602, 15986), (607, 16043), (608, 16046), (619, 16118), (633, 16220), (635, 16244), (640, 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), (39, 12427), (53, 12514), (54, 12517), (70, 12589), (78, 12640), (79, 12649), (89, 12709), (90, 12721), (95, 12742), (103, 12796), (110, 12826), (124, 12889), (127, 12910), (133, 12949), (144, 13027), (157, 13105), (161, 13129), (170, 13195), (179, 13261), (186, 13303), (190, 13342), (192, 13354), (198, 13384), (199, 13393), (221, 13507), (224, 13522), (233, 13576), (239, 13606), (243, 13630), (247, 13651), (262, 13699), (275, 13744), (276, 13747), (283, 13789), (288, 13810), (297, 13858), (303, 13915), (306, 13930), (310, 13966), (312, 13978), (319, 14023), (320, 14029), (331, 14119), (360, 14338), (367, 14377), (369, 14398), (387, 14485), (391, 14509), (398, 14536), (399, 14539), (405, 14569), (412, 14620), (419, 14656), (431, 14764), (451, 14899), (452, 14902), (468, 14968), (470, 14974), (477, 15013), (487, 15085), (489, 15091), (491, 15112), (498, 15196), (505, 15226), (508, 15247), (510, 15259), (518, 15340), (523, 15373), (525, 15382), (527, 15388), (533, 15430), (540, 15481), (541, 15487), (560, 15778), (569, 15892), (570, 15901), (571, 15904), (577, 15973), (603, 16108), (610, 16177), (620, 16225), (632, 16321), (636, 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), (61, 12458), (77, 12530), (78, 12542), (79, 12551), (90, 12623), (103, 12698), (110, 12728), (122, 12782), (124, 12791), (127, 12812), (133, 12851), (144, 12929), (151, 12971), (157, 13007), (161, 13031), (170, 13097), (180, 13172), (194, 13265), (196, 13274), (198, 13286), (199, 13295), (243, 13532), (248, 13556), (254, 13571), (263, 13604), (283, 13691), (289, 13715), (304, 13799), (314, 13883), (317, 13895), (321, 13916), (391, 14072), (407, 14153), (419, 14219), (422, 14240), (426, 14276), (431, 14327), (442, 14384), (451, 14462), (453, 14471), (472, 14549), (481, 14606), (491, 14660), (522, 14900), (535,

14975), (537, 14981), (548, 15086), (560, 15305), (577, 15503), (578, 15512), (598, 15614), (603, 15635), (611, 15710), (620, 15755), (629, 15827), (631, 15845), (632, 15851),

Gene: Angel_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Angel_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (61, 12410), (78, 12494), (79, 12503), (90, 12575), (103, 12650), (122, 12734), (124, 12743), (127, 12764), (133, 12803), (144, 12881), (157, 12959), (170, 13049), (180, 13124), (194, 13217), (198, 13238), (199, 13247), (243, 13484), (254, 13523), (263, 13556), (283, 13643), (289, 13667), (304, 13751), (314, 13835), (317, 13847), (321, 13868), (391, 14024), (407, 14105), (416, 14153), (419, 14171), (422, 14192), (426, 14228), (431, 14279), (442, 14336), (451, 14414), (453, 14423), (472, 14501), (475, 14516), (481, 14558), (491, 14612), (522, 14852), (535, 14927), (548, 15038), (560, 15257), (562, 15269), (577, 15452), (578, 15461), (598, 15563), (603, 15584), (620, 15704), (629, 15776), (631, 15794), (632, 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), (61, 12387), (78, 12471), (79, 12480), (89, 12540), (90, 12552), (103, 12627), (115, 12678), (124, 12720), (127, 12741), (133, 12780), (144, 12858), (157, 12936), (161, 12960), (180, 13101), (194, 13194), (198, 13215), (199, 13224), (243, 13461), (248, 13485), (254, 13500), (263, 13533), (283, 13620), (300, 13707), (304, 13728), (314, 13812), (317, 13824), (321, 13845), (391, 14001), (407, 14082), (419, 14148), (422, 14169), (426, 14205), (431, 14256), (437, 14274), (442, 14313), (451, 14391), (472, 14478), (475, 14493), (481, 14535), (491, 14589), (522, 14829), (535, 14904), (548, 15015), (550, 15036), (551, 15057), (558, 15177), (569, 15351), (577, 15432), (578, 15441), (590, 15513), (598, 15543), (603, 15564), (620, 15684), (629, 15756), (631, 15774), (632, 15780),

Gene: Annihilator_16 Start: 11455, Stop: 15468, Start Num: 14
Candidate Starts for Annihilator_16:
(Start: 14 @11455 has 171 MA's), (34, 11656), (53, 11770), (61, 11812), (69, 11842), (90, 11977), (93, 11989), (95, 11998), (130, 12187), (133, 12205), (134, 12208), (136, 12229), (137, 12241), (149, 12313), (157, 12361), (177, 12493), (179, 12517), (190, 12598), (215, 12721), (227, 12805), (236, 12841), (243, 12886), (244, 12892), (275, 13000), (279, 13024), (283, 13045), (320, 13264), (336, 13414), (345, 13501), (366, 13609), (391, 13744), (412, 13855), (416, 13873), (421, 13903), (449, 14125), (456, 14149), (459, 14164), (463, 14185), (472, 14212), (477, 14239), (488, 14299), (496, 14389), (501, 14422), (513, 14485), (517, 14542), (521, 14575), (524, 14584), (571, 15088), (572, 15115), (575, 15145), (577, 15157), (578, 15166), (590, 15235), (608, 15316), (617, 15376), (621, 15394), (623, 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), (37, 12046), (47, 12109), (51, 12127), (62, 12190), (72, 12226), (81, 12298), (83, 12304), (88, 12331), (91, 12349), (98, 12394), (107, 12430), (111, 12445), (134, 12568), (138, 12610), (141, 12625), (147, 12661), (157, 12724), (160, 12745), (172, 12817), (176, 12835), (195, 12976), (201, 13018), (208, 13048), (209, 13051), (211, 13060), (213, 13069), (218, 13111), (232, 13183), (234, 13189), (237, 13204), (240, 13222), (241, 13225), (247, 13258), (256, 13285), (270, 13330), (283, 13393), (289, 13417), (292, 13429), (293, 13432), (311, 13561), (317, 13603), (318, 13606), (331, 13708), (336, 13768), (341, 13819), (354, 13903), (367, 13966), (376, 14023), (387, 14074), (390, 14092), (391, 14098), (403, 14149), (410, 14191), (423, 14287), (446, 14410), (448, 14428), (456, 14494), (459, 14509), (476, 14575), (486, 14629), (489, 14644), (494, 14725), (496, 14734), (513, 14827), (516, 14881), (517, 14884), (522, 14917), (534, 14992), (571, 15454), (572, 15481), (577, 15523), (587, 15610), (588, 15613), (593, 15631), (595, 15634), (610, 15718), (612, 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), (61, 12413), (78, 12497), (79, 12506), (90, 12578), (103, 12653), (122, 12737), (124, 12746), (127, 12767), (133, 12806), (144, 12884), (157, 12962), (161, 12986), (170, 13052), (180, 13127), (194, 13220), (196, 13229), (198, 13241), (199, 13250), (243, 13487), (254, 13526), (263, 13559), (283, 13646), (289, 13670), (304, 13754), (314, 13838), (317, 13850), (321, 13871), (391, 14027), (407, 14108), (411, 14132), (416, 14156), (419, 14174), (422, 14195), (426, 14231), (431, 14282), (442, 14339), (451, 14417), (453, 14426), (472, 14504), (475, 14519), (481, 14561), (491, 14615), (522, 14855), (535, 14930), (548, 15041), (560, 15260), (562, 15272), (577, 15455), (578, 15464), (590, 15536), (598, 15566), (603, 15587), (620, 15707), (629, 15779), (631, 15797), (632, 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), (39, 12505), (57, 12607), (58, 12613), (61, 12634), (89, 12787), (90, 12799), (103, 12874), (110, 12904), (124, 12967), (127, 12988), (133, 13027), (144, 13105), (157, 13183), (161, 13207), (170, 13273), (180, 13348), (194, 13441), (200, 13474), (212, 13522), (221, 13585), (228, 13639), (229, 13642), (235, 13660), (237, 13672), (247, 13729), (257, 13756), (263, 13780), (269, 13801), (275, 13822), (283, 13867), (309, 14041), (331, 14197), (342, 14317), (347, 14359), (348, 14365), (362, 14437), (367, 14455), (369, 14476), (391, 14587), (405, 14647), (410, 14680), (412, 14698), (416, 14716), (419, 14734), (421, 14746), (426, 14791), (431, 14842), (440, 14890), (451, 14968), (472, 15055), (474, 15061), (475, 15070), (484, 15127), (485, 15130), (493, 15205), (503, 15271), (522, 15406), (533, 15466), (535, 15481), (537, 15487), (570, 15937), (577, 16009), (578, 16018), (592, 16105), (620, 16258), (632, 16357), (635, 16384), (636, 16396),

Gene: Aroostook_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Aroostook_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (61, 12402), (77, 12474), (78, 12486), (79, 12495), (90, 12567), (103, 12642), (122, 12726), (124, 12735), (127, 12756), (133, 12795), (144, 12873), (157, 12951), (170, 13041), (180, 13116), (194, 13209), (196, 13218), (198, 13230), (199, 13239), (248, 13500), (254, 13515), (263, 13548), (283, 13635), (289, 13659), (304, 13743), (314, 13827), (317, 13839), (321, 13860), (391, 14016), (407, 14097), (416, 14145), (419, 14163), (422, 14184), (426, 14220), (431, 14271), (442, 14328), (451, 14406), (453, 14415), (472, 14493), (481, 14550), (491, 14604), (522, 14844), (535, 14919), (548, 15030), (560, 15249), (562, 15261), (577, 15447), (578, 15456), (590, 15528), (598, 15558), (603, 15579), (620, 15699), (629, 15771), (631, 15789), (632, 15795),

Gene: Avrafan_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Avrafan_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: AzulaCat_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for AzulaCat_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171),

(416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480),
(453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993),
(548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629),
(603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (39, 12347), (57, 12449), (61, 12476), (77,
12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830),
(133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283),
(196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709),
(289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171),
(416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480),
(453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993),
(548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629),
(603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 15866),

Gene: BPs_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for BPs_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93,
11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149,
12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236,
12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336,
13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449,
14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496,
14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572,
15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621,
15403), (623, 15412),

Gene: BQuat_16 Start: 11455, Stop: 15468, Start Num: 14
Candidate Starts for BQuat_16:
(Start: 14 @11455 has 171 MA's), (34, 11656), (53, 11770), (61, 11812), (69, 11842), (90, 11977), (93,
11989), (95, 11998), (130, 12187), (133, 12205), (134, 12208), (136, 12229), (137, 12241), (149,
12313), (157, 12361), (177, 12493), (179, 12517), (190, 12598), (215, 12721), (227, 12805), (236,
12841), (243, 12886), (244, 12892), (275, 13000), (279, 13024), (283, 13045), (320, 13264), (336,
13414), (345, 13501), (366, 13609), (391, 13744), (412, 13855), (416, 13873), (421, 13903), (449,
14125), (456, 14149), (459, 14164), (463, 14185), (472, 14212), (477, 14239), (488, 14299), (496,
14389), (501, 14422), (513, 14485), (517, 14542), (521, 14575), (524, 14584), (571, 15088), (572,
15115), (575, 15145), (577, 15157), (578, 15166), (590, 15235), (608, 15316), (617, 15376), (621,
15394), (623, 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), (39, 12276), (57, 12378), (61, 12405), (77,
12477), (78, 12489), (79, 12498), (90, 12570), (103, 12645), (122, 12729), (124, 12738), (127, 12759),
(133, 12798), (137, 12834), (144, 12876), (157, 12954), (170, 13044), (180, 13119), (194, 13212),
(196, 13221), (198, 13233), (199, 13242), (243, 13479), (254, 13518), (263, 13551), (283, 13638),
(289, 13662), (304, 13746), (314, 13830), (317, 13842), (321, 13863), (391, 14019), (407, 14100),
(416, 14148), (419, 14166), (422, 14187), (426, 14223), (431, 14274), (442, 14331), (451, 14409),
(453, 14418), (472, 14496), (475, 14511), (481, 14553), (491, 14607), (522, 14847), (535, 14922),
(548, 15033), (560, 15252), (562, 15264), (577, 15447), (578, 15456), (590, 15528), (598, 15558),
(603, 15579), (620, 15699), (629, 15771), (631, 15789), (632, 15795),

Gene: BananenDer11_19 Start: 12197, Stop: 16303, Start Num: 13
Candidate Starts for BananenDer11_19:
(Start: 13 @12197 has 30 MA's), (24, 12290), (30, 12368), (32, 12392), (42, 12452), (58, 12536), (59, 12548), (79, 12650), (89, 12710), (90, 12722), (95, 12743), (103, 12797), (114, 12845), (124, 12890), (127, 12911), (144, 13028), (157, 13106), (161, 13130), (170, 13196), (180, 13271), (194, 13364), (199, 13394), (230, 13568), (233, 13577), (239, 13607), (243, 13631), (247, 13652), (265, 13712), (283, 13790), (285, 13799), (300, 13877), (309, 13943), (315, 13985), (317, 13994), (324, 14078), (331, 14099), (333, 14132), (340, 14198), (342, 14219), (349, 14273), (352, 14282), (356, 14300), (360, 14318), (361, 14327), (367, 14357), (373, 14393), (382, 14447), (390, 14483), (391, 14489), (393, 14507), (415, 14612), (423, 14678), (451, 14873), (458, 14903), (466, 14936), (477, 14987), (478, 15008), (482, 15023), (483, 15029), (493, 15113), (499, 15161), (507, 15200), (515, 15260), (516, 15293), (520, 15314), (526, 15338), (530, 15368), (543, 15434), (550, 15506), (569, 15821), (570, 15830), (571, 15833), (573, 15875), (577, 15902), (582, 15932), (590, 15983), (596, 16001), (608, 16067), (614, 16115), (620, 16139), (622, 16151), (633, 16232), (635, 16256), (640, 16295),

Gene: Barkley26_16 Start: 11464, Stop: 15480, Start Num: 14
Candidate Starts for Barkley26_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15100), (572, 15127), (575, 15157), (577, 15169), (578, 15178), (590, 15247), (608, 15328), (617, 15388), (621, 15406), (623, 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), (39, 12299), (57, 12401), (61, 12428), (77, 12500), (78, 12512), (79, 12521), (90, 12593), (103, 12668), (122, 12752), (124, 12761), (127, 12782), (133, 12821), (137, 12857), (144, 12899), (157, 12977), (170, 13067), (180, 13142), (194, 13235), (196, 13244), (198, 13256), (199, 13265), (243, 13502), (254, 13541), (263, 13574), (283, 13661), (289, 13685), (304, 13769), (314, 13853), (317, 13865), (321, 13886), (391, 14042), (407, 14123), (416, 14171), (419, 14189), (422, 14210), (426, 14246), (431, 14297), (442, 14354), (451, 14432), (453, 14441), (472, 14519), (475, 14534), (481, 14576), (491, 14630), (522, 14870), (535, 14945), (548, 15056), (560, 15275), (562, 15287), (577, 15470), (578, 15479), (590, 15551), (598, 15581), (603, 15602), (620, 15722), (629, 15794), (631, 15812), (632, 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), (61, 12452), (77, 12524), (78, 12536), (79, 12545), (90, 12617), (103, 12692), (122, 12776), (124, 12785), (127, 12806), (133, 12845), (144, 12923), (157, 13001), (170, 13091), (180, 13166), (194, 13259), (196, 13268), (198, 13280), (199, 13289), (243, 13526), (254, 13565), (263, 13598), (283, 13685), (289, 13709), (304, 13793), (314, 13877), (317, 13889), (318, 13892), (321, 13910), (391, 14066), (407, 14147), (416, 14195), (419, 14213), (422, 14234), (426, 14270), (431, 14321), (442, 14378), (451, 14456), (453, 14465), (472, 14543), (475, 14558), (481, 14600), (491, 14654), (522, 14894), (535, 14969), (548, 15080), (560, 15299), (562, 15311), (577, 15494), (578, 15503), (598, 15605), (603, 15626), (620, 15746), (629, 15818), (631, 15836), (632, 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), (61, 12369), (78, 12453), (79, 12462), (89, 12522), (90, 12534), (103, 12609), (113, 12651), (122, 12693), (124, 12702), (127, 12723), (133, 12762), (134, 12765), (144, 12840), (157, 12918), (180, 13083), (194, 13176), (198, 13197), (199, 13206), (243, 13443), (248, 13467), (254, 13482), (263, 13515), (283, 13602), (300, 13689), (304, 13710), (314, 13794), (317, 13806), (321, 13827), (391, 13983), (407, 14064), (419, 14130), (422, 14151), (426, 14187), (431, 14238), (437, 14256), (442, 14295), (451, 14373), (453, 14382), (472, 14460), (475, 14475), (481, 14517), (491, 14571), (522, 14811), (535, 14886), (548, 14997), (550, 15018), (551, 15039), (558, 15159), (569, 15333), (577, 15414), (578, 15423), (590, 15495), (598, 15525), (603, 15546), (620, 15666), (629, 15738), (631, 15756), (632, 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), (61, 12397), (78, 12481), (89, 12550), (90, 12562), (103, 12637), (115, 12688), (124, 12730), (127, 12751), (133, 12790), (144, 12868), (157, 12946), (180, 13111), (194, 13204), (198, 13225), (199, 13234), (243, 13471), (248, 13495), (254, 13510), (263, 13543), (283, 13630), (300, 13717), (304, 13738), (314, 13822), (317, 13834), (320, 13849), (321, 13855), (407, 14092), (416, 14140), (419, 14158), (422, 14179), (426, 14215), (428, 14233), (431, 14266), (451, 14401), (453, 14410), (472, 14488), (475, 14503), (481, 14545), (491, 14599), (522, 14839), (535, 14914), (548, 15025), (550, 15046), (551, 15067), (558, 15187), (569, 15361), (577, 15442), (578, 15451), (590, 15523), (598, 15553), (603, 15574), (620, 15694), (629, 15766), (631, 15784), (632, 15790),

Gene: Biglebops_17 Start: 11327, Stop: 15460, Start Num: 14
Candidate Starts for Biglebops_17:
(10, 11288), (Start: 14 @11327 has 171 MA's), (23, 11396), (29, 11483), (39, 11561), (58, 11669), (61, 11690), (70, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (133, 12083), (144, 12161), (157, 12239), (161, 12263), (194, 12497), (212, 12578), (219, 12638), (228, 12695), (238, 12731), (243, 12764), (248, 12788), (268, 12854), (271, 12863), (283, 12923), (304, 13031), (309, 13076), (331, 13232), (341, 13343), (342, 13352), (343, 13364), (352, 13415), (356, 13433), (361, 13460), (367, 13490), (383, 13583), (391, 13622), (422, 13790), (428, 13844), (431, 13877), (441, 13922), (451, 14003), (452, 14006), (472, 14090), (474, 14096), (475, 14105), (481, 14147), (490, 14183), (491, 14201), (493, 14240), (502, 14300), (522, 14441), (533, 14501), (535, 14516), (562, 14858), (577, 15047), (578, 15056), (588, 15119), (632, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (39, 12349), (57, 12451), (61, 12478), (77, 12550), (78, 12562), (79, 12571), (90, 12643), (103, 12718), (122, 12802), (124, 12811), (127, 12832), (133, 12871), (137, 12907), (144, 12949), (157, 13027), (170, 13117), (180, 13192), (194, 13285), (196, 13294), (198, 13306), (199, 13315), (243, 13552), (254, 13591), (263, 13624), (283, 13711), (289, 13735), (304, 13819), (314, 13903), (317, 13915), (321, 13936), (391, 14092), (407, 14173),

(416, 14221), (419, 14239), (422, 14260), (426, 14296), (431, 14347), (442, 14404), (451, 14482), (453, 14491), (472, 14569), (475, 14584), (481, 14626), (491, 14680), (522, 14920), (535, 14995), (548, 15106), (560, 15325), (562, 15337), (577, 15520), (578, 15529), (590, 15601), (598, 15631), (603, 15652), (620, 15772), (629, 15844), (631, 15862), (632, 15868),

Gene: BoostSeason_17 Start: 10144, Stop: 13818, Start Num: 13
Candidate Starts for BoostSeason_17:
(Start: 13 @10144 has 30 MA's), (23, 10216), (65, 10450), (77, 10501), (90, 10594), (103, 10669), (124, 10762), (127, 10783), (130, 10804), (131, 10810), (144, 10900), (151, 10942), (157, 10978), (164, 11011), (165, 11023), (168, 11047), (170, 11068), (175, 11092), (176, 11098), (179, 11134), (180, 11143), (186, 11176), (188, 11188), (190, 11215), (227, 11398), (228, 11410), (230, 11416), (239, 11455), (243, 11479), (273, 11512), (288, 11530), (291, 11539), (302, 11572), (326, 11761), (327, 11767), (332, 11803), (338, 11830), (343, 11848), (351, 11866), (379, 11974), (388, 12007), (400, 12040), (413, 12094), (419, 12127), (422, 12148), (424, 12172), (429, 12202), (432, 12223), (481, 12445), (493, 12538), (506, 12616), (522, 12739), (545, 12892), (569, 13309), (570, 13318), (572, 13348), (580, 13408), (600, 13516), (620, 13648), (632, 13741),

Gene: BruceB_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for BruceB_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (35, 11293), (40, 11320), (44, 11347), (47, 11365), (51, 11383), (53, 11407), (55, 11413), (60, 11440), (62, 11446), (72, 11482), (75, 11491), (77, 11515), (88, 11587), (91, 11605), (92, 11608), (118, 11737), (138, 11854), (154, 11950), (160, 11989), (166, 12019), (176, 12079), (201, 12262), (202, 12268), (203, 12271), (214, 12325), (218, 12355), (228, 12415), (232, 12427), (234, 12433), (237, 12448), (241, 12469), (244, 12487), (281, 12625), (283, 12637), (288, 12658), (296, 12697), (316, 12751), (317, 12757), (335, 12919), (342, 12982), (356, 13063), (359, 13078), (367, 13120), (375, 13171), (378, 13192), (385, 13222), (387, 13228), (391, 13252), (403, 13303), (412, 13363), (422, 13420), (426, 13456), (428, 13474), (431, 13507), (451, 13648), (452, 13651), (472, 13735), (477, 13762), (491, 13846), (522, 14086), (535, 14161), (561, 14494), (569, 14596), (570, 14605), (577, 14677), (590, 14761), (598, 14791), (603, 14812), (620, 14929), (629, 15004), (634, 15043), (635, 15055),

Gene: CLED96_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for CLED96_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621,

15403), (623, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (35, 11281), (40, 11308), (44, 11335), (47, 11353), (51, 11371), (53, 11395), (55, 11401), (60, 11428), (62, 11434), (72, 11470), (75, 11479), (77, 11503), (88, 11575), (91, 11593), (92, 11596), (118, 11725), (138, 11842), (154, 11938), (160, 11977), (166, 12007), (176, 12067), (201, 12250), (202, 12256), (203, 12259), (214, 12313), (218, 12343), (228, 12403), (232, 12415), (234, 12421), (237, 12436), (241, 12457), (244, 12475), (281, 12613), (283, 12625), (288, 12646), (296, 12685), (316, 12739), (317, 12745), (335, 12907), (342, 12970), (356, 13051), (359, 13066), (367, 13108), (375, 13159), (378, 13180), (385, 13210), (387, 13216), (391, 13240), (403, 13291), (412, 13351), (422, 13408), (426, 13444), (428, 13462), (431, 13495), (451, 13636), (452, 13639), (472, 13723), (477, 13750), (491, 13834), (522, 14074), (535, 14149), (561, 14482), (569, 14584), (570, 14593), (577, 14665), (590, 14749), (598, 14779), (603, 14800), (620, 14917), (629, 14992), (634, 15031), (635, 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), (61, 12399), (77, 12471), (78, 12483), (79, 12492), (90, 12564), (103, 12639), (122, 12723), (124, 12732), (127, 12753), (133, 12792), (137, 12828), (144, 12870), (157, 12948), (170, 13038), (180, 13113), (194, 13206), (196, 13215), (198, 13227), (199, 13236), (243, 13473), (254, 13512), (263, 13545), (283, 13632), (289, 13656), (304, 13740), (314, 13824), (317, 13836), (321, 13857), (391, 14013), (407, 14094), (416, 14142), (419, 14160), (422, 14181), (426, 14217), (431, 14268), (442, 14325), (451, 14403), (453, 14412), (472, 14490), (475, 14505), (481, 14547), (491, 14601), (522, 14841), (535, 14916), (548, 15027), (560, 15246), (562, 15258), (577, 15441), (578, 15450), (590, 15522), (598, 15552), (603, 15573), (620, 15693), (629, 15765), (631, 15783), (632, 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), (42, 12423), (58, 12507), (68, 12555), (90, 12693), (95, 12714), (103, 12768), (124, 12861), (127, 12882), (130, 12903), (133, 12921), (136, 12945), (137, 12957), (149, 13029), (152, 13044), (157, 13077), (177, 13209), (179, 13233), (182, 13254), (188, 13287), (190, 13314), (198, 13356), (206, 13404), (228, 13542), (229, 13545), (239, 13587), (256, 13656), (257, 13659), (276, 13728), (283, 13770), (298, 13848), (315, 13965), (317, 13974), (320, 13989), (327, 14070), (331, 14079), (336, 14139), (349, 14253), (361, 14307), (366, 14334), (375, 14388), (377, 14397), (385, 14439), (390, 14463), (391, 14469), (399, 14499), (403, 14520), (406, 14538), (413, 14583), (445, 14790), (447, 14805), (450, 14853), (456, 14874), (459, 14889), (465, 14913), (475, 14952), (476, 14955), (477, 14964), (481, 14991), (484, 15006), (492, 15057), (493, 15084), (512, 15189), (522, 15285), (535, 15360), (551, 15504), (563, 15705), (571, 15789), (572, 15816), (575, 15846), (577, 15858), (608, 16044), (621, 16122),

Gene: Camri_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Camri_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 15866),

Gene: CassieYates_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for CassieYates_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: Cedasite_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Cedasite_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149,

12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: Chance64_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Chance64_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (44, 11390), (49, 11417), (66, 11507), (67, 11510), (81, 11597), (99, 11705), (100, 11708), (116, 11774), (134, 11876), (138, 11918), (141, 11933), (142, 11942), (147, 11969), (153, 11999), (157, 12032), (165, 12074), (176, 12143), (201, 12329), (202, 12335), (211, 12371), (213, 12380), (214, 12392), (216, 12404), (218, 12422), (228, 12482), (232, 12494), (234, 12500), (237, 12515), (240, 12533), (241, 12536), (244, 12554), (247, 12569), (259, 12608), (277, 12665), (278, 12674), (283, 12704), (288, 12725), (295, 12755), (305, 12824), (308, 12845), (311, 12872), (314, 12902), (317, 12914), (330, 13016), (337, 13094), (342, 13139), (344, 13163), (355, 13217), (356, 13220), (359, 13235), (360, 13238), (367, 13277), (371, 13304), (375, 13328), (376, 13334), (405, 13469), (406, 13478), (411, 13514), (412, 13520), (416, 13538), (420, 13565), (422, 13577), (428, 13631), (431, 13664), (443, 13724), (451, 13805), (452, 13808), (472, 13892), (475, 13907), (493, 14042), (503, 14108), (522, 14243), (554, 14516), (557, 14591), (577, 14852), (578, 14861), (585, 14924), (607, 15047), (620, 15119), (624, 15140), (629, 15191), (631, 15209), (632, 15215), (636, 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), (61, 12453), (77, 12525), (78, 12537), (79, 12546), (90, 12618), (103, 12693), (122, 12777), (124, 12786), (127, 12807), (133, 12846), (144, 12924), (157, 13002), (161, 13026), (170, 13092), (180, 13167), (194, 13260), (196, 13269), (198, 13281), (199, 13290), (243, 13527), (254, 13566), (263, 13599), (283, 13686), (289, 13710), (304, 13794), (314, 13878), (317, 13890), (321, 13911), (391, 14067), (407, 14148), (411, 14172), (416, 14196), (419, 14214), (422, 14235), (426, 14271), (431, 14322), (442, 14379), (451, 14457), (453, 14466), (472, 14544), (475, 14559), (481, 14601), (491, 14655), (522, 14895), (535, 14970), (548, 15081), (560, 15300), (562, 15312), (577, 15495), (578, 15504), (590, 15576), (598, 15606), (603, 15627), (620, 15747), (629, 15819), (631, 15837), (632, 15843),

Gene: Cherrybomb426_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Cherrybomb426_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236,

12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (40, 11296), (44, 11323), (45, 11332), (46, 11338), (64, 11434), (88, 11563), (91, 11581), (92, 11584), (96, 11611), (100, 11641), (118, 11722), (125, 11752), (128, 11776), (138, 11839), (141, 11854), (156, 11950), (157, 11953), (165, 11995), (176, 12064), (201, 12247), (203, 12256), (213, 12298), (214, 12310), (228, 12400), (232, 12412), (234, 12418), (237, 12433), (240, 12451), (241, 12454), (246, 12484), (247, 12487), (281, 12610), (283, 12622), (284, 12628), (288, 12643), (290, 12649), (315, 12733), (322, 12802), (342, 12967), (348, 13015), (352, 13030), (367, 13105), (375, 13156), (378, 13177), (387, 13213), (391, 13237), (399, 13267), (419, 13384), (421, 13396), (422, 13405), (428, 13459), (431, 13492), (442, 13549), (451, 13627), (452, 13630), (472, 13714), (477, 13741), (485, 13789), (491, 13825), (493, 13864), (512, 13969), (522, 14065), (529, 14107), (535, 14140), (560, 14482), (577, 14680), (592, 14794), (620, 14968), (629, 15052), (632, 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), (61, 12453), (78, 12537), (79, 12546), (90, 12618), (103, 12693), (122, 12777), (124, 12786), (127, 12807), (133, 12846), (144, 12924), (157, 13002), (170, 13092), (180, 13167), (194, 13260), (196, 13269), (198, 13281), (199, 13290), (243, 13527), (254, 13566), (263, 13599), (283, 13686), (289, 13710), (304, 13794), (314, 13878), (317, 13890), (321, 13911), (391, 14067), (407, 14148), (411, 14172), (416, 14196), (419, 14214), (422, 14235), (426, 14271), (431, 14322), (442, 14379), (451, 14457), (453, 14466), (472, 14544), (475, 14559), (481, 14601), (491, 14655), (522, 14895), (535, 14970), (548, 15081), (560, 15300), (562, 15312), (577, 15495), (578, 15504), (590, 15576), (598, 15606), (603, 15627), (620, 15747), (629, 15819), (631, 15837), (632, 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), (33, 11919), (35, 11922), (38, 11937), (45, 11985), (51, 12012), (55, 12042), (60, 12069), (83, 12189), (85, 12204), (88, 12216), (91, 12234), (98, 12279), (117, 12357), (118, 12366), (134, 12453), (138, 12495), (141, 12510), (146, 12540), (157, 12609), (159, 12621), (176, 12720), (189, 12834), (195, 12861), (201, 12903), (208, 12933), (213, 12954), (218, 12996), (232, 13068), (234, 13074), (237, 13089), (240, 13107), (241, 13110), (256, 13170), (270, 13215), (277, 13239), (279, 13257), (283, 13278), (289, 13302), (292, 13314), (293, 13317), (301, 13374), (311, 13446), (317, 13488), (330, 13590), (334, 13647), (349, 13767), (354, 13788), (376, 13908), (387, 13959), (403, 14034), (410, 14076), (420, 14139), (423, 14172), (446, 14295), (456, 14379), (459, 14394), (465, 14418), (476, 14460), (477, 14469), (486, 14514), (489, 14529), (494, 14610), (496, 14619), (513, 14712), (516, 14766), (517, 14769), (522, 14802), (571, 15270), (572, 15297), (574, 15324), (577, 15339), (578, 15348), (610, 15564), (612, 15582), (620, 15621),

Gene: Coleslaw_16 Start: 11455, Stop: 15468, Start Num: 14
Candidate Starts for Coleslaw_16:
(Start: 14 @11455 has 171 MA's), (34, 11656), (53, 11770), (61, 11812), (69, 11842), (90, 11977), (93, 11989), (95, 11998), (130, 12187), (133, 12205), (134, 12208), (136, 12229), (137, 12241), (149, 12313), (157, 12361), (177, 12493), (179, 12517), (190, 12598), (215, 12721), (227, 12805), (236,

12841), (243, 12886), (244, 12892), (275, 13000), (279, 13024), (283, 13045), (320, 13264), (336, 13414), (345, 13501), (366, 13609), (391, 13744), (412, 13855), (416, 13873), (421, 13903), (449, 14125), (456, 14149), (459, 14164), (463, 14185), (472, 14212), (477, 14239), (488, 14299), (496, 14389), (501, 14422), (513, 14485), (517, 14542), (521, 14575), (524, 14584), (571, 15088), (572, 15115), (575, 15145), (577, 15157), (578, 15166), (590, 15235), (608, 15316), (617, 15376), (621, 15394), (623, 15403),

Gene: Collard_19 Start: 12197, Stop: 16303, Start Num: 13
Candidate Starts for Collard_19:
(Start: 13 @12197 has 30 MA's), (24, 12290), (30, 12368), (32, 12392), (42, 12452), (58, 12536), (59, 12548), (79, 12650), (89, 12710), (90, 12722), (95, 12743), (103, 12797), (114, 12845), (124, 12890), (127, 12911), (144, 13028), (157, 13106), (161, 13130), (170, 13196), (180, 13271), (194, 13364), (199, 13394), (230, 13568), (233, 13577), (239, 13607), (243, 13631), (247, 13652), (265, 13712), (283, 13790), (285, 13799), (300, 13877), (309, 13943), (315, 13985), (317, 13994), (324, 14078), (331, 14099), (333, 14132), (340, 14198), (342, 14219), (349, 14273), (352, 14282), (356, 14300), (360, 14318), (361, 14327), (367, 14357), (373, 14393), (382, 14447), (390, 14483), (391, 14489), (393, 14507), (415, 14612), (423, 14678), (451, 14873), (458, 14903), (466, 14936), (477, 14987), (478, 15008), (482, 15023), (483, 15029), (493, 15113), (499, 15161), (507, 15200), (515, 15260), (516, 15293), (520, 15314), (526, 15338), (530, 15368), (543, 15434), (550, 15506), (569, 15821), (570, 15830), (571, 15833), (573, 15875), (577, 15902), (582, 15932), (590, 15983), (596, 16001), (608, 16067), (614, 16115), (620, 16139), (622, 16151), (633, 16232), (635, 16256), (640, 16295),

Gene: Crespo_16 Start: 11465, Stop: 15478, Start Num: 14
Candidate Starts for Crespo_16:
(Start: 14 @11465 has 171 MA's), (34, 11666), (53, 11780), (61, 11822), (69, 11852), (90, 11987), (93, 11999), (95, 12008), (130, 12197), (133, 12215), (134, 12218), (136, 12239), (137, 12251), (149, 12323), (157, 12371), (177, 12503), (179, 12527), (190, 12608), (215, 12731), (227, 12815), (236, 12851), (243, 12896), (244, 12902), (275, 13010), (279, 13034), (283, 13055), (320, 13274), (336, 13424), (345, 13511), (366, 13619), (391, 13754), (412, 13865), (416, 13883), (421, 13913), (449, 14135), (456, 14159), (459, 14174), (463, 14195), (472, 14222), (477, 14249), (488, 14309), (496, 14399), (501, 14432), (513, 14495), (517, 14552), (521, 14585), (524, 14594), (571, 15098), (572, 15125), (575, 15155), (577, 15167), (578, 15176), (590, 15245), (608, 15326), (617, 15386), (621, 15404), (623, 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), (61, 12414), (78, 12498), (79, 12507), (89, 12567), (90, 12579), (103, 12654), (113, 12696), (122, 12738), (124, 12747), (127, 12768), (133, 12807), (144, 12885), (157, 12963), (180, 13128), (194, 13221), (196, 13230), (198, 13242), (199, 13251), (243, 13488), (248, 13512), (254, 13527), (263, 13560), (283, 13647), (289, 13671), (304, 13755), (314, 13839), (317, 13851), (321, 13872), (330, 13953), (389, 14010), (391, 14028), (407, 14109), (416, 14157), (419, 14175), (421, 14187), (422, 14196), (426, 14232), (431, 14283), (442, 14340), (451, 14418), (472, 14505), (475, 14520), (481, 14562), (491, 14616), (522, 14856), (535, 14931), (548, 15042), (560, 15261), (562, 15273), (569, 15375), (577, 15456), (578, 15465), (590, 15537), (598, 15567), (603, 15588), (620, 15708), (629, 15780), (631, 15798), (632, 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), (40, 11735), (43, 11759), (49, 11789), (52, 11810), (53, 11822), (66, 11879), (67, 11882), (81, 11969), (88, 12002), (91, 12020), (92, 12023), (98, 12065), (109, 12110), (134, 12239), (138, 12281), (141, 12296), (142, 12305), (147, 12332), (157, 12395), (164, 12425), (176, 12506), (181, 12557), (194, 12644), (201, 12689), (211, 12731), (212,

12734), (213, 12740), (218, 12782), (228, 12842), (232, 12854), (234, 12860), (237, 12875), (240, 12893), (241, 12896), (244, 12914), (247, 12929), (266, 12989), (274, 13010), (277, 13025), (283, 13064), (287, 13082), (288, 13085), (314, 13262), (317, 13274), (319, 13283), (322, 13334), (330, 13376), (342, 13499), (344, 13523), (360, 13598), (371, 13664), (387, 13745), (399, 13799), (403, 13820), (406, 13838), (412, 13880), (416, 13898), (420, 13925), (422, 13937), (426, 13973), (428, 13991), (434, 14036), (451, 14165), (452, 14168), (472, 14252), (475, 14267), (480, 14306), (481, 14309), (491, 14363), (493, 14402), (503, 14468), (522, 14603), (542, 14729), (564, 15044), (569, 15125), (570, 15134), (577, 15206), (620, 15458), (629, 15530), (632, 15554), (635, 15581),

Gene: DMoney_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for DMoney_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: DNAIII_0016 Start: 11473, Stop: 15486, Start Num: 14
Candidate Starts for DNAIII_0016:
(Start: 14 @11473 has 171 MA's), (34, 11674), (53, 11788), (61, 11830), (69, 11860), (90, 11995), (93, 12007), (95, 12016), (130, 12205), (133, 12223), (134, 12226), (136, 12247), (137, 12259), (149, 12331), (157, 12379), (177, 12511), (179, 12535), (190, 12616), (215, 12739), (227, 12823), (236, 12859), (243, 12904), (244, 12910), (275, 13018), (279, 13042), (283, 13063), (320, 13282), (336, 13432), (345, 13519), (366, 13627), (391, 13762), (412, 13873), (416, 13891), (421, 13921), (449, 14143), (456, 14167), (459, 14182), (463, 14203), (472, 14230), (477, 14257), (488, 14317), (496, 14407), (501, 14440), (513, 14503), (517, 14560), (521, 14593), (524, 14602), (571, 15106), (572, 15133), (575, 15163), (577, 15175), (578, 15184), (590, 15253), (608, 15334), (617, 15394), (621, 15412), (623, 15421),

Gene: Dadosky_19 Start: 12113, Stop: 16225, Start Num: 13
Candidate Starts for Dadosky_19:
(Start: 13 @12113 has 30 MA's), (24, 12206), (30, 12284), (32, 12308), (42, 12368), (58, 12452), (79, 12566), (89, 12626), (90, 12638), (95, 12659), (103, 12713), (114, 12761), (124, 12806), (127, 12827), (144, 12944), (157, 13022), (161, 13046), (167, 13088), (170, 13112), (180, 13187), (194, 13280), (199, 13310), (230, 13484), (239, 13523), (243, 13547), (247, 13568), (265, 13628), (283, 13706), (300, 13793), (309, 13859), (315, 13901), (317, 13910), (324, 13994), (331, 14015), (333, 14048), (340, 14114), (342, 14135), (349, 14189), (352, 14198), (356, 14216), (361, 14243), (367, 14273), (373, 14309), (390, 14399), (391, 14405), (393, 14423), (415, 14528), (423, 14594), (451, 14789), (458, 14819), (466, 14852), (477, 14903), (478, 14924), (482, 14939), (483, 14945), (493, 15029), (499, 15077), (507, 15116), (515, 15176), (516, 15209), (520, 15230), (526, 15254), (530, 15284), (543, 15350), (550, 15422), (569, 15737), (570, 15746), (571, 15749), (572, 15776), (573, 15791), (575, 15806), (577, 15818), (582, 15848), (590, 15902), (596, 15920), (608, 15989), (614, 16037), (620, 16061), (622, 16073), (624, 16082), (633, 16154), (635, 16178), (640, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283),

(196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 15866),

Gene: Darionha_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Darionha_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (61, 12366), (78, 12450), (79, 12459), (89, 12519), (90, 12531), (103, 12606), (113, 12648), (122, 12690), (124, 12699), (127, 12720), (133, 12759), (134, 12762), (144, 12837), (157, 12915), (180, 13080), (194, 13173), (198, 13194), (199, 13203), (243, 13440), (248, 13464), (254, 13479), (263, 13512), (283, 13599), (300, 13686), (304, 13707), (314, 13791), (317, 13803), (321, 13824), (391, 13980), (407, 14061), (419, 14127), (422, 14148), (426, 14184), (431, 14235), (437, 14253), (442, 14292), (451, 14370), (453, 14379), (472, 14457), (475, 14472), (481, 14514), (491, 14568), (522, 14808), (535, 14883), (548, 14994), (550, 15015), (551, 15036), (558, 15156), (569, 15330), (577, 15411), (578, 15420), (590, 15492), (598, 15522), (603, 15543), (620, 15663), (629, 15735), (631, 15753), (632, 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), (39, 12427), (57, 12529), (58, 12535), (61, 12556), (70, 12589), (74, 12601), (78, 12640), (79, 12649), (89, 12709), (90, 12721), (95, 12742), (103, 12796), (110, 12826), (124, 12889), (127, 12910), (133, 12949), (144, 13027), (157, 13105), (161, 13129), (186, 13303), (190, 13342), (191, 13351), (192, 13354), (198, 13384), (221, 13507), (224, 13522), (228, 13561), (239, 13606), (243, 13630), (272, 13732), (275, 13744), (277, 13750), (283, 13789), (303, 13915), (306, 13930), (310, 13966), (312, 13978), (319, 14023), (331, 14119), (360, 14338), (367, 14377), (369, 14398), (387, 14485), (391, 14509), (398, 14536), (399, 14539), (405, 14569), (412, 14620), (419, 14656), (431, 14764), (451, 14899), (452, 14902), (468, 14968), (470, 14974), (477, 15013), (487, 15085), (489, 15091), (491, 15112), (498, 15196), (505, 15226), (508, 15247), (510, 15259), (518, 15340), (523, 15373), (525, 15382), (527, 15388), (533, 15430), (537, 15448), (540, 15481), (541, 15487), (549, 15532), (560, 15742), (569, 15841), (570, 15850), (571, 15853), (577, 15922), (603, 16057), (610, 16126), (620, 16174), (632, 16270), (636, 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), (44, 11380), (49, 11407), (66, 11497), (67, 11500), (81, 11587), (99, 11695), (116, 11764), (119, 11782), (134, 11866), (138, 11908), (141, 11923), (142, 11932), (147, 11959), (157, 12022), (165, 12064), (176, 12133), (183, 12196), (184, 12205), (201, 12319), (202, 12325), (211, 12361), (213, 12370), (214, 12382), (216, 12394), (218,

12412), (228, 12472), (232, 12484), (234, 12490), (237, 12505), (240, 12523), (241, 12526), (244, 12544), (247, 12559), (259, 12598), (277, 12655), (278, 12664), (283, 12694), (288, 12715), (295, 12745), (299, 12778), (311, 12862), (314, 12892), (317, 12904), (330, 13006), (337, 13084), (342, 13129), (344, 13153), (355, 13207), (356, 13210), (359, 13225), (367, 13267), (371, 13294), (373, 13303), (375, 13318), (376, 13324), (377, 13327), (406, 13468), (411, 13504), (412, 13510), (416, 13528), (420, 13555), (422, 13567), (428, 13621), (431, 13654), (443, 13714), (451, 13795), (452, 13798), (472, 13882), (475, 13897), (493, 14032), (503, 14098), (522, 14233), (558, 14584), (577, 14839), (578, 14848), (585, 14914), (620, 15109), (624, 15130), (629, 15181), (631, 15199), (632, 15205), (636, 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), (61, 12410), (78, 12494), (79, 12503), (90, 12575), (103, 12650), (122, 12734), (124, 12743), (127, 12764), (133, 12803), (144, 12881), (157, 12959), (170, 13049), (180, 13124), (194, 13217), (198, 13238), (199, 13247), (243, 13484), (254, 13523), (263, 13556), (283, 13643), (289, 13667), (304, 13751), (314, 13835), (317, 13847), (321, 13868), (391, 14024), (407, 14105), (416, 14153), (419, 14171), (422, 14192), (426, 14228), (431, 14279), (442, 14336), (451, 14414), (453, 14423), (472, 14501), (475, 14516), (481, 14558), (491, 14612), (522, 14852), (535, 14927), (548, 15038), (560, 15257), (562, 15269), (577, 15452), (578, 15461), (598, 15563), (603, 15584), (620, 15704), (629, 15776), (631, 15794), (632, 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), (61, 12438), (78, 12522), (79, 12531), (89, 12591), (90, 12603), (103, 12678), (113, 12720), (122, 12762), (124, 12771), (127, 12792), (133, 12831), (144, 12909), (151, 12951), (157, 12987), (180, 13152), (194, 13245), (198, 13266), (199, 13275), (248, 13557), (254, 13572), (263, 13605), (283, 13692), (304, 13800), (314, 13884), (317, 13896), (321, 13917), (391, 14073), (407, 14154), (416, 14202), (419, 14220), (422, 14241), (426, 14277), (431, 14328), (442, 14385), (451, 14463), (453, 14472), (472, 14550), (475, 14565), (481, 14607), (491, 14661), (506, 14778), (522, 14901), (535, 14976), (551, 15129), (560, 15306), (569, 15420), (577, 15501), (578, 15510), (590, 15582), (598, 15612), (603, 15633), (620, 15750), (629, 15822), (632, 15846),

Gene: DingDing_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for DingDing_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: DismalFunk_17 Start: 10116, Stop: 13784, Start Num: 13
Candidate Starts for DismalFunk_17:
(Start: 13 @10116 has 30 MA's), (23, 10188), (65, 10422), (77, 10473), (90, 10566), (95, 10587), (103, 10641), (124, 10734), (127, 10755), (130, 10776), (131, 10782), (144, 10872), (151, 10914), (157, 10950), (164, 10983), (165, 10995), (168, 11019), (170, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (227, 11370), (228, 11382), (230, 11388), (236, 11406), (239, 11427), (243, 11451), (249, 11475), (273, 11484), (282, 11499), (291,

11511), (302, 11544), (309, 11592), (326, 11733), (327, 11739), (332, 11775), (338, 11802), (343, 11820), (379, 11946), (400, 12012), (413, 12066), (419, 12099), (422, 12120), (424, 12144), (429, 12174), (432, 12195), (481, 12417), (493, 12510), (506, 12588), (522, 12711), (539, 12816), (545, 12864), (565, 13251), (569, 13281), (570, 13290), (572, 13320), (600, 13485), (620, 13614), (632, 13707),

Gene: DismalStressor_17 Start: 10116, Stop: 13784, Start Num: 13
Candidate Starts for DismalStressor_17:
(Start: 13 @10116 has 30 MA's), (23, 10188), (65, 10422), (77, 10473), (90, 10566), (95, 10587), (103, 10641), (124, 10734), (127, 10755), (130, 10776), (131, 10782), (144, 10872), (151, 10914), (157, 10950), (164, 10983), (165, 10995), (168, 11019), (170, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (227, 11370), (228, 11382), (230, 11388), (236, 11406), (239, 11427), (243, 11451), (249, 11475), (273, 11484), (282, 11499), (291, 11511), (302, 11544), (309, 11592), (326, 11733), (327, 11739), (332, 11775), (338, 11802), (343, 11820), (379, 11946), (400, 12012), (413, 12066), (419, 12099), (422, 12120), (424, 12144), (429, 12174), (432, 12195), (481, 12417), (493, 12510), (506, 12588), (522, 12711), (539, 12816), (545, 12864), (565, 13251), (569, 13281), (570, 13290), (572, 13320), (600, 13485), (620, 13614), (632, 13707),

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), (61, 12440), (78, 12524), (79, 12533), (89, 12593), (90, 12605), (103, 12680), (113, 12722), (122, 12764), (124, 12773), (127, 12794), (133, 12833), (144, 12911), (151, 12953), (157, 12989), (180, 13154), (194, 13247), (198, 13268), (199, 13277), (248, 13559), (254, 13574), (263, 13607), (283, 13694), (304, 13802), (314, 13886), (317, 13898), (321, 13919), (391, 14075), (407, 14156), (416, 14204), (419, 14222), (422, 14243), (426, 14279), (431, 14330), (442, 14387), (451, 14465), (453, 14474), (472, 14552), (475, 14567), (481, 14609), (491, 14663), (506, 14780), (522, 14903), (535, 14978), (551, 15131), (560, 15308), (569, 15422), (577, 15503), (578, 15512), (590, 15584), (598, 15614), (603, 15635), (620, 15752), (629, 15824), (632, 15848),

Gene: DoubleChamp_19 Start: 12197, Stop: 16303, Start Num: 13
Candidate Starts for DoubleChamp_19:
(Start: 13 @12197 has 30 MA's), (24, 12290), (30, 12368), (32, 12392), (42, 12452), (58, 12536), (59, 12548), (79, 12650), (89, 12710), (90, 12722), (95, 12743), (103, 12797), (114, 12845), (124, 12890), (127, 12911), (144, 13028), (157, 13106), (161, 13130), (170, 13196), (180, 13271), (194, 13364), (199, 13394), (230, 13568), (233, 13577), (239, 13607), (243, 13631), (247, 13652), (265, 13712), (283, 13790), (285, 13799), (300, 13877), (309, 13943), (315, 13985), (317, 13994), (324, 14078), (331, 14099), (333, 14132), (340, 14198), (342, 14219), (349, 14273), (352, 14282), (356, 14300), (360, 14318), (361, 14327), (367, 14357), (373, 14393), (382, 14447), (390, 14483), (391, 14489), (393, 14507), (415, 14612), (423, 14678), (451, 14873), (458, 14903), (466, 14936), (477, 14987), (478, 15008), (482, 15023), (483, 15029), (493, 15113), (499, 15161), (507, 15200), (515, 15260), (516, 15293), (520, 15314), (526, 15338), (530, 15368), (543, 15434), (550, 15506), (569, 15821), (570, 15830), (571, 15833), (573, 15875), (577, 15902), (582, 15932), (590, 15983), (596, 16001), (608, 16067), (614, 16115), (620, 16139), (622, 16151), (633, 16232), (635, 16256), (640, 16295),

Gene: Doughnut_17 Start: 10138, Stop: 13812, Start Num: 13
Candidate Starts for Doughnut_17:
(Start: 13 @10138 has 30 MA's), (23, 10210), (65, 10444), (77, 10495), (90, 10588), (103, 10663), (124, 10756), (127, 10777), (130, 10798), (131, 10804), (144, 10894), (151, 10936), (157, 10972), (164, 11005), (165, 11017), (168, 11041), (170, 11062), (175, 11086), (176, 11092), (179, 11128), (180, 11137), (186, 11170), (188, 11182), (190, 11209), (227, 11392), (228, 11404), (230, 11410), (239, 11449), (243, 11473), (273, 11506), (288, 11524), (291, 11533), (302, 11566), (326, 11755),

(327, 11761), (332, 11797), (338, 11824), (343, 11842), (351, 11860), (379, 11968), (388, 12001), (400, 12034), (413, 12088), (419, 12121), (422, 12142), (424, 12166), (429, 12196), (432, 12217), (481, 12439), (493, 12532), (506, 12610), (522, 12733), (545, 12886), (565, 13273), (569, 13303), (570, 13312), (572, 13342), (580, 13402), (600, 13510), (620, 13642), (632, 13735),

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), (61, 12387), (78, 12471), (79, 12480), (89, 12540), (90, 12552), (103, 12627), (115, 12678), (124, 12720), (127, 12741), (133, 12780), (144, 12858), (157, 12936), (161, 12960), (180, 13101), (194, 13194), (198, 13215), (199, 13224), (243, 13461), (248, 13485), (254, 13500), (263, 13533), (283, 13620), (300, 13707), (304, 13728), (314, 13812), (317, 13824), (321, 13845), (391, 14001), (407, 14082), (419, 14148), (422, 14169), (426, 14205), (431, 14256), (437, 14274), (442, 14313), (451, 14391), (472, 14478), (475, 14493), (481, 14535), (491, 14589), (522, 14829), (535, 14904), (548, 15015), (550, 15036), (551, 15057), (558, 15177), (569, 15351), (577, 15432), (578, 15441), (590, 15513), (598, 15543), (603, 15564), (620, 15684), (629, 15756), (631, 15774), (632, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 15866),

Gene: ECartman_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for ECartman_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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 30 MA's), (24, 12206), (30, 12284), (32, 12308), (42, 12368), (58, 12452), (79, 12566), (89, 12626), (90, 12638), (95, 12659), (103, 12713), (114, 12761), (124, 12806), (127, 12827), (144, 12944), (157, 13022), (161, 13046), (167, 13088), (170, 13112), (180, 13187), (194, 13280), (199, 13310), (230, 13484), (239, 13523), (243, 13547), (247, 13568), (265, 13628), (283, 13706), (300, 13793), (309, 13859), (315, 13901), (317, 13910), (324, 13994), (331, 14015), (333, 14048), (340, 14114), (342, 14135), (349, 14189), (352, 14198), (356, 14216), (361, 14243), (367, 14273), (373, 14309), (390, 14399), (391, 14405), (393, 14423), (415, 14528), (423, 14594), (451, 14789), (458, 14819), (466, 14852), (477, 14903), (478, 14924), (482, 14939), (483, 14945), (493, 15029), (499, 15077), (507, 15116), (515, 15176), (516, 15209), (520, 15230), (526, 15254), (530, 15284), (543, 15350), (550, 15422), (569, 15737), (570, 15746), (571,

15749), (572, 15776), (573, 15791), (575, 15806), (577, 15818), (582, 15848), (590, 15902), (596, 15920), (608, 15989), (614, 16037), (620, 16061), (622, 16073), (624, 16082), (633, 16154), (635, 16178), (640, 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), (40, 11225), (43, 11249), (49, 11279), (52, 11300), (53, 11312), (67, 11372), (81, 11459), (88, 11492), (91, 11510), (92, 11513), (105, 11585), (134, 11729), (138, 11771), (141, 11786), (147, 11822), (158, 11894), (176, 11996), (201, 12179), (207, 12206), (212, 12224), (213, 12230), (218, 12272), (232, 12344), (234, 12350), (237, 12365), (241, 12386), (244, 12404), (247, 12419), (261, 12467), (274, 12500), (277, 12515), (283, 12554), (288, 12575), (295, 12605), (319, 12773), (322, 12824), (342, 12989), (344, 13013), (356, 13070), (365, 13121), (371, 13154), (373, 13163), (387, 13235), (403, 13310), (406, 13328), (412, 13370), (416, 13388), (420, 13415), (422, 13427), (438, 13556), (443, 13574), (451, 13655), (452, 13658), (472, 13742), (480, 13796), (481, 13799), (493, 13892), (503, 13958), (522, 14093), (542, 14219), (569, 14615), (570, 14624), (577, 14696), (590, 14780), (598, 14810), (602, 14831), (620, 14948), (629, 15020), (632, 15044), (636, 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), (39, 12138), (57, 12240), (61, 12267), (70, 12300), (74, 12312), (78, 12351), (89, 12420), (90, 12432), (95, 12453), (103, 12507), (108, 12531), (110, 12537), (124, 12600), (127, 12621), (133, 12660), (136, 12684), (144, 12738), (157, 12816), (161, 12840), (172, 12915), (186, 13014), (190, 13053), (192, 13065), (198, 13095), (221, 13218), (224, 13233), (228, 13272), (233, 13287), (243, 13341), (275, 13455), (276, 13458), (283, 13500), (288, 13521), (303, 13626), (306, 13641), (308, 13656), (310, 13677), (312, 13689), (319, 13734), (331, 13830), (342, 13950), (367, 14088), (369, 14109), (387, 14196), (391, 14220), (398, 14247), (399, 14250), (405, 14280), (412, 14331), (419, 14367), (431, 14475), (451, 14610), (452, 14613), (468, 14679), (470, 14685), (477, 14724), (487, 14796), (489, 14802), (491, 14823), (498, 14907), (505, 14937), (508, 14958), (510, 14970), (518, 15051), (523, 15084), (525, 15093), (527, 15099), (533, 15141), (537, 15159), (540, 15192), (541, 15198), (560, 15486), (569, 15600), (570, 15609), (571, 15612), (577, 15681), (603, 15813), (620, 15933), (630, 16011), (632, 16032), (636, 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), (39, 12175), (57, 12277), (58, 12283), (61, 12304), (89, 12457), (90, 12469), (103, 12544), (110, 12574), (124, 12637), (127, 12658), (133, 12697), (144, 12775), (157, 12853), (161, 12877), (170, 12943), (180, 13018), (194, 13111), (212, 13192), (221, 13255), (228, 13309), (229, 13312), (235, 13330), (237, 13342), (247, 13399), (257, 13426), (263, 13450), (269, 13471), (275, 13492), (283, 13537), (309, 13711), (331, 13867), (342, 13987), (347, 14029), (348, 14035), (362, 14107), (367, 14125), (369, 14146), (391, 14257), (405, 14317), (410, 14350), (412, 14368), (416, 14386), (419, 14404), (421, 14416), (426, 14461), (431, 14512), (440, 14560), (451, 14638), (472, 14725), (474, 14731), (475, 14740), (484, 14797), (485, 14800), (493, 14875), (503, 14941), (522, 15076), (533, 15136), (535, 15151), (537, 15157), (570, 15607), (577, 15679), (578, 15688), (592, 15775), (620, 15928), (632, 16027), (635, 16054), (636, 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), (39, 12307), (57, 12409), (61, 12436), (77, 12508), (78, 12520), (79, 12529), (90, 12601), (103, 12676), (122, 12760), (124, 12769), (127, 12790), (133, 12829), (144, 12907), (157, 12985), (170, 13075), (180, 13150), (194, 13243), (196, 13252), (198, 13264), (199, 13273), (243, 13510), (254, 13549), (263, 13582), (283, 13669), (289, 13693),

(304, 13777), (314, 13861), (317, 13873), (321, 13894), (391, 14050), (407, 14131), (416, 14179), (419, 14197), (422, 14218), (426, 14254), (431, 14305), (442, 14362), (451, 14440), (453, 14449), (472, 14527), (475, 14542), (481, 14584), (491, 14638), (522, 14878), (535, 14953), (548, 15064), (560, 15283), (562, 15295), (577, 15478), (578, 15487), (590, 15559), (598, 15589), (603, 15610), (620, 15730), (629, 15802), (631, 15820), (632, 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), (39, 11561), (58, 11669), (61, 11690), (70, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (133, 12083), (144, 12161), (157, 12239), (161, 12263), (194, 12497), (212, 12578), (219, 12638), (228, 12695), (238, 12731), (243, 12764), (248, 12788), (268, 12854), (271, 12863), (283, 12923), (304, 13031), (309, 13076), (331, 13232), (341, 13343), (342, 13352), (343, 13364), (352, 13415), (356, 13433), (361, 13460), (367, 13490), (383, 13583), (391, 13622), (422, 13790), (428, 13844), (431, 13877), (441, 13922), (451, 14003), (452, 14006), (472, 14090), (474, 14096), (475, 14105), (481, 14147), (490, 14183), (491, 14201), (493, 14240), (502, 14300), (522, 14441), (533, 14501), (535, 14516), (562, 14858), (577, 15047), (578, 15056), (588, 15119), (632, 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), (39, 12342), (57, 12444), (58, 12450), (61, 12471), (89, 12624), (90, 12636), (103, 12711), (124, 12804), (127, 12825), (133, 12864), (144, 12942), (157, 13020), (161, 13044), (169, 13098), (170, 13110), (180, 13185), (194, 13278), (212, 13359), (221, 13422), (228, 13476), (235, 13497), (237, 13509), (243, 13545), (247, 13566), (255, 13584), (263, 13617), (269, 13638), (271, 13644), (275, 13659), (277, 13665), (283, 13704), (309, 13878), (331, 14034), (347, 14196), (348, 14202), (360, 14253), (367, 14292), (369, 14313), (391, 14424), (405, 14484), (410, 14517), (412, 14535), (416, 14553), (419, 14571), (421, 14583), (426, 14628), (431, 14679), (440, 14727), (451, 14805), (453, 14814), (472, 14892), (474, 14898), (475, 14907), (484, 14964), (485, 14967), (493, 15042), (503, 15108), (522, 15243), (533, 15303), (535, 15318), (537, 15324), (570, 15774), (577, 15846), (578, 15855), (592, 15942), (620, 16095), (632, 16194), (635, 16221), (636, 16233),

Gene: Feyre_19 Start: 12055, Stop: 16164, Start Num: 13
Candidate Starts for Feyre_19:
(Start: 13 @12055 has 30 MA's), (42, 12313), (58, 12397), (74, 12463), (77, 12490), (79, 12511), (89, 12571), (90, 12583), (95, 12604), (103, 12658), (110, 12688), (124, 12751), (127, 12772), (144, 12889), (151, 12931), (152, 12934), (157, 12967), (164, 13000), (194, 13225), (197, 13237), (198, 13246), (217, 13324), (227, 13387), (229, 13402), (230, 13405), (233, 13414), (235, 13420), (237, 13432), (238, 13435), (243, 13468), (246, 13486), (248, 13492), (277, 13588), (283, 13627), (309, 13780), (315, 13822), (320, 13846), (331, 13936), (333, 13969), (349, 14110), (352, 14119), (356, 14137), (361, 14164), (374, 14242), (391, 14326), (415, 14449), (423, 14515), (439, 14617), (451, 14710), (453, 14719), (458, 14740), (466, 14773), (477, 14824), (478, 14845), (482, 14860), (483, 14866), (493, 14950), (497, 14980), (499, 14998), (507, 15037), (515, 15097), (516, 15130), (520, 15151), (526, 15175), (530, 15208), (543, 15292), (550, 15364), (569, 15673), (573, 15727), (575, 15742), (577, 15754), (582, 15784), (614, 15970), (620, 15994), (622, 16006), (633, 16093), (635, 16117),

Gene: Findley_17 Start: 10116, Stop: 13787, Start Num: 13
Candidate Starts for Findley_17:
(Start: 13 @10116 has 30 MA's), (23, 10188), (65, 10422), (77, 10473), (90, 10566), (95, 10587), (103, 10641), (124, 10734), (127, 10755), (130, 10776), (131, 10782), (144, 10872), (151, 10914), (157, 10950), (164, 10983), (165, 10995), (168, 11019), (170, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (227, 11370), (228, 11382), (230,

11388), (236, 11406), (239, 11427), (243, 11451), (249, 11475), (273, 11484), (282, 11499), (291, 11511), (302, 11544), (309, 11592), (326, 11733), (327, 11739), (332, 11775), (338, 11802), (343, 11820), (357, 11850), (379, 11946), (388, 11979), (401, 12015), (413, 12066), (419, 12099), (422, 12120), (424, 12144), (429, 12174), (432, 12195), (466, 12339), (481, 12417), (493, 12510), (506, 12588), (522, 12711), (539, 12816), (545, 12864), (569, 13284), (570, 13293), (572, 13323), (600, 13488), (620, 13617), (632, 13710),

Gene: Frosty24_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Frosty24_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (61, 12456), (78, 12540), (79, 12549), (90, 12621), (103, 12696), (122, 12780), (124, 12789), (127, 12810), (133, 12849), (144, 12927), (157, 13005), (170, 13095), (180, 13170), (194, 13263), (198, 13284), (199, 13293), (243, 13530), (254, 13569), (263, 13602), (283, 13689), (289, 13713), (304, 13797), (314, 13881), (317, 13893), (321, 13914), (391, 14070), (407, 14151), (416, 14199), (419, 14217), (422, 14238), (426, 14274), (431, 14325), (442, 14382), (451, 14460), (453, 14469), (472, 14547), (481, 14604), (491, 14658), (522, 14898), (535, 14973), (548, 15084), (560, 15303), (562, 15315), (577, 15498), (578, 15507), (590, 15579), (598, 15609), (603, 15630), (620, 15750), (629, 15822), (631, 15840), (632, 15846),

Gene: Gengar_19 Start: 12162, Stop: 16271, Start Num: 13
Candidate Starts for Gengar_19:
(Start: 13 @12162 has 30 MA's), (42, 12420), (58, 12504), (74, 12570), (79, 12618), (89, 12678), (90, 12690), (95, 12711), (103, 12765), (110, 12795), (124, 12858), (127, 12879), (135, 12936), (144, 12996), (157, 13074), (161, 13098), (167, 13140), (172, 13173), (194, 13332), (198, 13353), (217, 13431), (227, 13494), (229, 13509), (230, 13512), (233, 13521), (235, 13527), (237, 13539), (243, 13575), (246, 13593), (277, 13695), (283, 13734), (309, 13887), (315, 13929), (320, 13953), (331, 14043), (333, 14076), (340, 14142), (349, 14217), (352, 14226), (356, 14244), (361, 14271), (374, 14349), (391, 14433), (415, 14556), (423, 14622), (439, 14724), (451, 14817), (458, 14847), (464, 14874), (466, 14880), (477, 14931), (478, 14952), (482, 14967), (483, 14973), (493, 15057), (497, 15087), (499, 15105), (507, 15144), (515, 15204), (516, 15237), (520, 15258), (526, 15282), (530, 15315), (543, 15399), (550, 15471), (569, 15780), (573, 15834), (575, 15849), (577, 15861), (582, 15891), (614, 16077), (620, 16101), (622, 16113), (633, 16200), (635, 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), (61, 12452), (77, 12524), (78, 12536), (79, 12545), (90, 12617), (103, 12692), (122, 12776), (124, 12785), (127, 12806), (133, 12845), (144, 12923), (157, 13001), (170, 13091), (180, 13166), (194, 13259), (196, 13268), (198, 13280), (199, 13289), (243, 13526), (254, 13565), (263, 13598), (283, 13685), (289, 13709), (304, 13793), (314, 13877), (317, 13889), (321, 13910), (391, 14066), (407, 14147), (416, 14195), (419, 14213), (422, 14234), (426, 14270), (431, 14321), (442, 14378), (451, 14456), (453, 14465),

(472, 14543), (475, 14558), (481, 14600), (491, 14654), (522, 14894), (535, 14969), (548, 15080), (560, 15299), (562, 15311), (577, 15494), (578, 15503), (590, 15575), (598, 15605), (603, 15626), (620, 15746), (629, 15818), (631, 15836), (632, 15842),

Gene: Gideon_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Gideon_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (42, 11867), (58, 11951), (61, 11972), (68, 11999), (76, 12023), (77, 12044), (90, 12137), (95, 12158), (124, 12305), (130, 12347), (133, 12365), (136, 12389), (137, 12401), (148, 12461), (149, 12473), (152, 12488), (157, 12521), (169, 12599), (177, 12653), (179, 12677), (182, 12698), (186, 12719), (188, 12731), (190, 12758), (198, 12800), (206, 12848), (237, 13019), (239, 13031), (251, 13088), (257, 13103), (271, 13154), (275, 13169), (283, 13214), (298, 13292), (320, 13433), (327, 13514), (331, 13523), (336, 13583), (337, 13598), (349, 13697), (354, 13718), (361, 13751), (366, 13778), (372, 13811), (375, 13832), (386, 13886), (387, 13889), (399, 13943), (403, 13964), (421, 14072), (427, 14126), (445, 14234), (447, 14249), (450, 14297), (456, 14318), (459, 14333), (475, 14396), (477, 14408), (480, 14432), (481, 14435), (484, 14450), (492, 14501), (493, 14528), (512, 14633), (522, 14729), (535, 14804), (550, 14927), (551, 14948), (555, 15011), (556, 15020), (563, 15149), (571, 15230), (572, 15257), (575, 15287), (577, 15299), (582, 15329), (604, 15467), (617, 15548), (621, 15566),

Gene: GoldenAsh_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for GoldenAsh_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: Gomashi_16 Start: 11465, Stop: 15478, Start Num: 14
Candidate Starts for Gomashi_16:
(Start: 14 @11465 has 171 MA's), (34, 11666), (53, 11780), (61, 11822), (69, 11852), (90, 11987), (93, 11999), (95, 12008), (130, 12197), (133, 12215), (134, 12218), (136, 12239), (137, 12251), (149, 12323), (157, 12371), (177, 12503), (179, 12527), (190, 12608), (215, 12731), (227, 12815), (236, 12851), (243, 12896), (244, 12902), (275, 13010), (279, 13034), (283, 13055), (320, 13274), (336, 13424), (345, 13511), (366, 13619), (391, 13754), (412, 13865), (416, 13883), (421, 13913), (449, 14135), (456, 14159), (459, 14174), (463, 14195), (472, 14222), (477, 14249), (488, 14309), (496, 14399), (501, 14432), (513, 14495), (517, 14552), (521, 14585), (524, 14594), (571, 15098), (572, 15125), (575, 15155), (577, 15167), (578, 15176), (590, 15245), (608, 15326), (617, 15386), (621,

15404), (623, 15413),

Gene: Grizzly_16 Start: 11464, Stop: 15480, Start Num: 14
Candidate Starts for Grizzly_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (59, 11812), (61, 11821), (69, 11851), (90, 11986), (95, 12007), (124, 12154), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (233, 12841), (236, 12850), (244, 12901), (250, 12925), (259, 12952), (283, 13054), (318, 13261), (320, 13273), (335, 13420), (336, 13423), (366, 13618), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (465, 14197), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (504, 14446), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15100), (572, 15127), (575, 15157), (577, 15169), (578, 15178), (590, 15247), (608, 15328), (617, 15388), (621, 15406), (623, 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), (40, 11241), (43, 11265), (49, 11295), (52, 11316), (53, 11328), (67, 11388), (81, 11475), (88, 11508), (91, 11526), (92, 11529), (105, 11601), (134, 11745), (138, 11787), (141, 11802), (147, 11838), (158, 11910), (176, 12012), (201, 12195), (207, 12222), (212, 12240), (213, 12246), (218, 12288), (232, 12360), (234, 12366), (237, 12381), (241, 12402), (244, 12420), (247, 12435), (261, 12483), (274, 12516), (277, 12531), (283, 12570), (288, 12591), (295, 12621), (319, 12789), (322, 12840), (342, 13005), (344, 13029), (356, 13086), (365, 13137), (371, 13170), (373, 13179), (387, 13251), (403, 13326), (406, 13344), (412, 13386), (416, 13404), (420, 13431), (422, 13443), (438, 13572), (443, 13590), (451, 13671), (452, 13674), (472, 13758), (480, 13812), (481, 13815), (493, 13908), (503, 13974), (522, 14109), (542, 14235), (569, 14631), (570, 14640), (577, 14712), (590, 14796), (620, 14964), (629, 15036), (632, 15060), (636, 15099),

Gene: Guillsminger_19 Start: 12137, Stop: 16246, Start Num: 13
Candidate Starts for Guillsminger_19:
(Start: 13 @12137 has 30 MA's), (42, 12395), (58, 12479), (74, 12545), (79, 12593), (89, 12653), (90, 12665), (95, 12686), (103, 12740), (110, 12770), (124, 12833), (127, 12854), (135, 12911), (144, 12971), (157, 13049), (161, 13073), (167, 13115), (172, 13148), (194, 13307), (198, 13328), (217, 13406), (227, 13469), (229, 13484), (230, 13487), (233, 13496), (235, 13502), (237, 13514), (243, 13550), (246, 13568), (277, 13670), (283, 13709), (309, 13862), (315, 13904), (320, 13928), (331, 14018), (333, 14051), (340, 14117), (349, 14192), (352, 14201), (356, 14219), (361, 14246), (374, 14324), (391, 14408), (415, 14531), (423, 14597), (439, 14699), (451, 14792), (458, 14822), (464, 14849), (466, 14855), (477, 14906), (478, 14927), (482, 14942), (483, 14948), (493, 15032), (497, 15062), (499, 15080), (507, 15119), (515, 15179), (516, 15212), (520, 15233), (526, 15257), (530, 15290), (543, 15374), (550, 15446), (569, 15755), (573, 15809), (575, 15824), (577, 15836), (582, 15866), (614, 16052), (620, 16076), (622, 16088), (633, 16175), (635, 16199),

Gene: Halo_16 Start: 11459, Stop: 15472, Start Num: 14
Candidate Starts for Halo_16:
(Start: 14 @11459 has 171 MA's), (34, 11660), (53, 11774), (61, 11816), (69, 11846), (90, 11981), (93, 11993), (95, 12002), (130, 12191), (133, 12209), (134, 12212), (136, 12233), (137, 12245), (149, 12317), (157, 12365), (177, 12497), (179, 12521), (190, 12602), (215, 12725), (227, 12809), (236, 12845), (243, 12890), (244, 12896), (275, 13004), (279, 13028), (283, 13049), (320, 13268), (336, 13418), (345, 13505), (366, 13613), (391, 13748), (412, 13859), (416, 13877), (421, 13907), (449, 14129), (456, 14153), (459, 14168), (463, 14189), (472, 14216), (477, 14243), (488, 14303), (496, 14393), (501, 14426), (513, 14489), (517, 14546), (521, 14579), (524, 14588), (571, 15092), (572, 15119), (575, 15149), (577, 15161), (578, 15170), (590, 15239), (608, 15320), (617, 15380), (621, 15398), (623, 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), (39, 12421), (57, 12523), (58, 12529), (61, 12550), (70, 12583), (74, 12595), (78, 12634), (79, 12643), (89, 12703), (90, 12715), (95, 12736), (103, 12790), (110, 12820), (124, 12883), (127, 12904), (133, 12943), (144, 13021), (157, 13099), (161, 13123), (186, 13297), (190, 13336), (191, 13345), (192, 13348), (198, 13378), (221, 13501), (224, 13516), (228, 13555), (239, 13600), (243, 13624), (272, 13726), (275, 13738), (277, 13744), (283, 13783), (303, 13909), (306, 13924), (310, 13960), (312, 13972), (319, 14017), (331, 14113), (360, 14332), (367, 14371), (369, 14392), (387, 14479), (391, 14503), (398, 14530), (399, 14533), (405, 14563), (412, 14614), (419, 14650), (431, 14758), (451, 14893), (452, 14896), (468, 14962), (470, 14968), (477, 15007), (487, 15079), (489, 15085), (491, 15106), (498, 15190), (505, 15220), (508, 15241), (510, 15253), (518, 15334), (523, 15367), (525, 15376), (527, 15382), (533, 15424), (537, 15442), (540, 15475), (541, 15481), (549, 15526), (560, 15736), (569, 15835), (570, 15844), (571, 15847), (577, 15916), (603, 16051), (610, 16120), (620, 16168), (632, 16264), (636, 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), (61, 12439), (77, 12511), (78, 12523), (79, 12532), (90, 12604), (103, 12679), (122, 12763), (124, 12772), (127, 12793), (133, 12832), (144, 12910), (157, 12988), (170, 13078), (180, 13153), (194, 13246), (196, 13255), (198, 13267), (199, 13276), (248, 13537), (254, 13552), (263, 13585), (283, 13672), (289, 13696), (304, 13780), (314, 13864), (317, 13876), (321, 13897), (391, 14053), (407, 14134), (416, 14182), (419, 14200), (422, 14221), (426, 14257), (431, 14308), (442, 14365), (451, 14443), (453, 14452), (472, 14530), (481, 14587), (491, 14641), (522, 14881), (535, 14956), (548, 15067), (560, 15286), (562, 15298), (577, 15487), (578, 15496), (590, 15568), (598, 15598), (603, 15619), (620, 15739), (629, 15811), (631, 15829), (632, 15835),

Gene: Heftyboy_19 Start: 12264, Stop: 16394, Start Num: 13
Candidate Starts for Heftyboy_19:
(Start: 13 @12264 has 30 MA's), (24, 12357), (30, 12435), (32, 12459), (42, 12519), (58, 12603), (59, 12615), (79, 12717), (89, 12777), (90, 12789), (95, 12810), (103, 12864), (114, 12912), (124, 12957), (127, 12978), (144, 13095), (157, 13173), (161, 13197), (170, 13263), (180, 13338), (194, 13431), (199, 13461), (230, 13635), (233, 13644), (239, 13674), (243, 13698), (247, 13719), (265, 13779), (283, 13857), (285, 13866), (300, 13944), (309, 14010), (315, 14052), (317, 14061), (324, 14145), (331, 14166), (333, 14199), (349, 14340), (352, 14349), (356, 14367), (361, 14394), (374, 14472), (391, 14556), (415, 14679), (423, 14745), (451, 14940), (458, 14970), (464, 14997), (466, 15003), (473, 15030), (478, 15075), (482, 15090), (483, 15096), (493, 15180), (499, 15228), (507, 15267), (515, 15327), (516, 15360), (520, 15381), (526, 15405), (530, 15438), (543, 15522), (550, 15594), (569, 15903), (573, 15957), (575, 15972), (577, 15984), (582, 16014), (614, 16200), (620, 16224), (622, 16236), (633, 16323), (635, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (547, 15089), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599),

(598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 15866),

Gene: Hope_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Hope_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: Hotshotbaby7_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Hotshotbaby7_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (51, 12502), (58, 12547), (61, 12568), (66, 12589), (77, 12640), (89, 12721), (90, 12733), (95, 12754), (103, 12808), (113, 12850), (124, 12901), (127, 12922), (129, 12940), (134, 12964), (140, 13015), (144, 13039), (152, 13084), (157, 13117), (161, 13141), (186, 13315), (194, 13375), (198, 13396), (199, 13405), (228, 13573), (235, 13594), (239, 13618), (243, 13642), (247, 13663), (255, 13681), (260, 13702), (263, 13714), (275, 13756), (276, 13759), (283, 13801), (286, 13816), (298, 13879), (312, 13990), (316, 14020), (323, 14098), (339, 14218), (342, 14251), (358, 14341), (361, 14359), (367, 14389), (371, 14416), (412, 14632), (419, 14668), (428, 14743), (431, 14776), (433, 14788), (443, 14836), (451, 14917), (452, 14920), (481, 15037), (493, 15130), (506, 15208), (519, 15307), (522, 15331), (535, 15406), (569, 15865), (570, 15874), (571, 15877), (577, 15946), (578, 15955), (603, 16087), (611, 16147), (613, 16165), (622, 16201), (624, 16210), (631, 16276), (632, 16282), (634, 16297), (635, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (61, 12440), (78, 12524), (79, 12533), (89, 12593), (90, 12605), (103, 12680), (113, 12722), (122, 12764), (124, 12773), (127, 12794), (133, 12833), (144, 12911), (151, 12953), (157, 12989), (180, 13154), (194, 13247), (198, 13268), (199, 13277), (248, 13559), (254, 13574), (263, 13607), (283, 13694), (304, 13802), (314, 13886), (317, 13898), (321, 13919), (391, 14075), (407, 14156), (416, 14204), (419, 14222), (422, 14243), (426, 14279), (431, 14330), (442, 14387), (451, 14465), (453, 14474), (472, 14552), (475, 14567), (481, 14609), (491, 14663), (506, 14780), (522, 14903), (535, 14978), (551, 15131), (560, 15308), (569, 15422), (577, 15503), (578, 15512), (590, 15584), (598, 15614), (603, 15635), (620, 15752), (629, 15824), (632, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 15866),

Gene: InvictusManeo_19 Start: 12240, Stop: 16346, Start Num: 13
Candidate Starts for InvictusManeo_19:
(Start: 13 @12240 has 30 MA's), (24, 12333), (30, 12411), (32, 12435), (42, 12495), (58, 12579), (59, 12591), (79, 12693), (89, 12753), (90, 12765), (95, 12786), (103, 12840), (114, 12888), (124, 12933), (127, 12954), (144, 13071), (157, 13149), (161, 13173), (170, 13239), (180, 13314), (194, 13407), (199, 13437), (230, 13611), (233, 13620), (239, 13650), (243, 13674), (247, 13695), (265, 13755), (283, 13833), (285, 13842), (300, 13920), (309, 13986), (315, 14028), (317, 14037), (324, 14121), (331, 14142), (333, 14175), (340, 14241), (342, 14262), (349, 14316), (352, 14325), (356, 14343), (360, 14361), (361, 14370), (367, 14400), (373, 14436), (382, 14490), (390, 14526), (391, 14532), (393, 14550), (415, 14655), (423, 14721), (451, 14916), (458, 14946), (466, 14979), (477, 15030), (478, 15051), (482, 15066), (483, 15072), (493, 15156), (499, 15204), (507, 15243), (515, 15303), (516, 15336), (520, 15357), (526, 15381), (530, 15411), (543, 15477), (550, 15549), (569, 15864), (570, 15873), (571, 15876), (573, 15918), (577, 15945), (582, 15975), (590, 16026), (596, 16044), (608, 16110), (614, 16158), (620, 16182), (622, 16194), (633, 16275), (635, 16299), (640, 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), (39, 12301), (57, 12403), (61, 12430), (77, 12502), (78, 12514), (79, 12523), (90, 12595), (103, 12670), (122, 12754), (124, 12763), (127, 12784), (133, 12823), (137, 12859), (144, 12901), (157, 12979), (170, 13069), (180, 13144), (194, 13237), (196, 13246), (198, 13258), (199, 13267), (243, 13504), (254, 13543), (263, 13576), (283, 13663), (289, 13687), (304, 13771), (314, 13855), (317, 13867), (321, 13888), (391, 14044), (407, 14125), (416, 14173), (419, 14191), (422, 14212), (426, 14248), (431, 14299), (442, 14356), (451, 14434), (453, 14443), (472, 14521), (475, 14536), (481, 14578), (491, 14632), (522, 14872), (535, 14947), (548, 15058), (560, 15277), (562, 15289), (577, 15472), (578, 15481), (590, 15553), (598, 15583), (603, 15604), (620, 15724), (629, 15796), (631, 15814), (632, 15820),

Gene: Jane_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Jane_16:

(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (61, 12440), (77, 12512), (78, 12524), (79, 12533), (90, 12605), (103, 12680), (122, 12764), (124, 12773), (127, 12794), (133, 12833), (144, 12911), (157, 12989), (170, 13079), (180, 13154), (194, 13247), (196, 13256), (198, 13268), (199, 13277), (248, 13538), (254, 13553), (263, 13586), (283, 13673), (289, 13697), (304, 13781), (314, 13865), (317, 13877), (321, 13898), (391, 14054), (407, 14135), (416, 14183), (419, 14201), (422, 14222), (426, 14258), (431, 14309), (442, 14366), (451, 14444), (453, 14453), (472, 14531), (481, 14588), (491, 14642), (522, 14882), (535, 14957), (548, 15068), (560, 15287), (562, 15299), (577, 15485), (578, 15494), (590, 15566), (598, 15596), (603, 15617), (620, 15737), (629, 15809), (631, 15827), (632, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 15866),

Gene: Jeilious_16 Start: 11463, Stop: 15476, Start Num: 14
Candidate Starts for Jeilious_16:
(Start: 14 @11463 has 171 MA's), (34, 11664), (53, 11778), (61, 11820), (69, 11850), (90, 11985), (93, 11997), (95, 12006), (130, 12195), (133, 12213), (134, 12216), (136, 12237), (137, 12249), (149, 12321), (157, 12369), (177, 12501), (179, 12525), (190, 12606), (215, 12729), (227, 12813), (236, 12849), (243, 12894), (244, 12900), (275, 13008), (279, 13032), (283, 13053), (320, 13272), (336, 13422), (345, 13509), (366, 13617), (391, 13752), (412, 13863), (416, 13881), (421, 13911), (449,

14133), (456, 14157), (459, 14172), (463, 14193), (472, 14220), (477, 14247), (488, 14307), (496, 14397), (501, 14430), (513, 14493), (517, 14550), (521, 14583), (524, 14592), (571, 15096), (572, 15123), (575, 15153), (577, 15165), (578, 15174), (590, 15243), (608, 15324), (617, 15384), (621, 15402), (623, 15411),

Gene: Jolene_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Jolene_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (36, 10975), (57, 11098), (62, 11122), (63, 11125), (72, 11158), (73, 11161), (78, 11203), (79, 11212), (101, 11344), (106, 11368), (111, 11386), (120, 11431), (126, 11455), (127, 11467), (134, 11509), (138, 11551), (146, 11596), (147, 11602), (157, 11665), (158, 11674), (160, 11686), (163, 11695), (167, 11728), (176, 11776), (201, 11953), (209, 11986), (210, 11989), (213, 12004), (234, 12124), (237, 12139), (240, 12157), (241, 12160), (247, 12193), (256, 12220), (270, 12265), (277, 12289), (279, 12307), (283, 12328), (301, 12424), (311, 12496), (336, 12703), (341, 12754), (356, 12844), (358, 12853), (361, 12871), (365, 12895), (367, 12901), (377, 12961), (386, 13006), (387, 13009), (389, 13015), (405, 13093), (410, 13126), (422, 13201), (449, 13414), (455, 13435), (456, 13438), (459, 13453), (467, 13486), (489, 13588), (496, 13678), (513, 13771), (516, 13825), (517, 13828), (522, 13861), (526, 13876), (531, 13915), (538, 13942), (551, 14080), (558, 14200), (564, 14287), (575, 14443), (577, 14455), (586, 14539), (594, 14578), (612, 14713),

Gene: Jonghyun_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Jonghyun_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: JorRay_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for JorRay_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572,

15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (61, 12405), (77, 12477), (78, 12489), (79, 12498), (90, 12570), (103, 12645), (122, 12729), (124, 12738), (127, 12759), (133, 12798), (144, 12876), (157, 12954), (170, 13044), (180, 13119), (194, 13212), (196, 13221), (198, 13233), (199, 13242), (243, 13479), (254, 13518), (263, 13551), (283, 13638), (289, 13662), (304, 13746), (314, 13830), (317, 13842), (321, 13863), (391, 14019), (407, 14100), (416, 14148), (419, 14166), (422, 14187), (426, 14223), (431, 14274), (442, 14331), (451, 14409), (453, 14418), (472, 14496), (475, 14511), (481, 14553), (491, 14607), (522, 14847), (535, 14922), (548, 15033), (560, 15252), (562, 15264), (577, 15447), (578, 15456), (590, 15528), (598, 15558), (603, 15579), (620, 15699), (629, 15771), (631, 15789), (632, 15795),

Gene: Kareem_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Kareem_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: Kasen3_16 Start: 11465, Stop: 15478, Start Num: 14
Candidate Starts for Kasen3_16:
(Start: 14 @11465 has 171 MA's), (34, 11666), (53, 11780), (61, 11822), (69, 11852), (90, 11987), (93, 11999), (95, 12008), (130, 12197), (133, 12215), (134, 12218), (136, 12239), (137, 12251), (149, 12323), (157, 12371), (177, 12503), (179, 12527), (190, 12608), (215, 12731), (227, 12815), (236, 12851), (243, 12896), (244, 12902), (275, 13010), (279, 13034), (283, 13055), (320, 13274), (336, 13424), (345, 13511), (366, 13619), (391, 13754), (412, 13865), (416, 13883), (421, 13913), (449, 14135), (456, 14159), (459, 14174), (463, 14195), (472, 14222), (477, 14249), (488, 14309), (496, 14399), (501, 14432), (513, 14495), (517, 14552), (521, 14585), (524, 14594), (571, 15098), (572, 15125), (575, 15155), (577, 15167), (578, 15176), (590, 15245), (608, 15326), (617, 15386), (621, 15404), (623, 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), (51, 12482), (53, 12506), (58, 12527), (61, 12548), (66, 12569), (89, 12701), (90, 12713), (95, 12734), (103, 12788), (110, 12818), (115, 12839), (122, 12872), (124, 12881), (127, 12902), (133, 12941), (144, 13019), (151, 13061), (157, 13097), (161, 13121), (186, 13295), (190, 13334), (194, 13355), (198, 13376), (199, 13385), (235, 13574), (239, 13598), (243, 13622), (247, 13643), (255, 13661), (263, 13694), (265, 13703), (275, 13736), (276, 13739), (277, 13742), (283, 13781), (285, 13790), (298, 13859), (312, 13970), (316, 14000), (323, 14078), (339, 14198), (342, 14231), (358, 14321), (361, 14339), (367, 14369), (371, 14396), (391, 14501), (399, 14531), (419, 14648), (426, 14705), (428, 14723), (430, 14744), (431, 14756), (443, 14816), (451, 14897), (452, 14900), (474, 14990), (481, 15020), (493, 15113), (506, 15191), (522, 15314), (535, 15389), (569, 15854), (571, 15866), (577, 15935), (578, 15944), (582, 15965), (611, 16139), (613, 16157), (622, 16193), (624, 16202), (631, 16268), (632, 16274), (634, 16289), (635, 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), (44, 11263), (45, 11272), (47, 11281), (64, 11374), (78, 11443), (79, 11452), (80, 11464), (81, 11470), (88, 11503), (95, 11539), (104, 11596), (106, 11608), (118, 11662), (125, 11692), (138, 11779), (141, 11794), (147, 11830), (176, 12004), (201, 12187), (203, 12196), (213, 12238), (218, 12280), (228, 12340), (232, 12352), (234, 12358), (237, 12373), (240, 12391), (241, 12394), (247, 12427), (281, 12550), (283, 12562), (284, 12568), (288, 12583), (290, 12589), (315, 12673), (323, 12754), (342, 12907), (359, 13003), (361, 13015), (367, 13045), (375, 13096), (378, 13117), (385, 13147), (387, 13153), (391, 13177), (405, 13237), (412, 13288), (420, 13333), (428, 13399), (431, 13432), (442, 13489), (451, 13567), (452, 13570), (472, 13654), (477, 13681), (481, 13711), (491, 13765), (493, 13804), (522, 14005), (535, 14080), (558, 14365), (560, 14422), (577, 14623), (592, 14737), (620, 14914), (629, 14998), (632, 15019),

Gene: Kratio_18 Start: 11868, Stop: 15977, Start Num: 13
Candidate Starts for Kratio_18:
(Start: 13 @11868 has 30 MA's), (24, 11961), (30, 12039), (32, 12063), (42, 12123), (58, 12207), (74, 12273), (79, 12321), (89, 12381), (90, 12393), (95, 12414), (103, 12468), (114, 12516), (124, 12561), (127, 12582), (144, 12699), (157, 12777), (161, 12801), (170, 12867), (180, 12942), (194, 13035), (199, 13065), (230, 13239), (233, 13248), (239, 13278), (243, 13302), (247, 13323), (265, 13383), (283, 13461), (285, 13470), (300, 13548), (309, 13614), (315, 13656), (324, 13749), (331, 13770), (333, 13803), (340, 13869), (342, 13890), (349, 13944), (352, 13953), (356, 13971), (360, 13989), (361, 13998), (367, 14028), (373, 14064), (390, 14154), (391, 14160), (393, 14178), (415, 14283), (423, 14349), (451, 14544), (458, 14574), (466, 14607), (477, 14658), (478, 14679), (482, 14694), (483, 14700), (493, 14784), (499, 14832), (507, 14871), (515, 14931), (516, 14964), (520, 14985), (526, 15009), (543, 15105), (550, 15177), (569, 15492), (570, 15501), (571, 15504), (573, 15546), (575, 15561), (577, 15573), (582, 15603), (590, 15654), (596, 15672), (614, 15789), (620, 15813), (622, 15825), (633, 15906), (635, 15930), (640, 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), (35, 11249), (44, 11303), (47, 11321), (51, 11339), (55, 11369), (60, 11396), (62, 11402), (75, 11447), (88, 11543), (91, 11561), (92, 11564), (116, 11678), (118, 11693), (138, 11810), (141, 11825), (154, 11906), (165, 11966), (166, 11975), (176, 12035), (201, 12218), (202, 12224), (214, 12281), (228, 12371), (232, 12383), (234, 12389), (237, 12404), (241, 12425), (244, 12443), (266, 12518), (276, 12551), (281, 12581), (283, 12593), (288, 12614), (296, 12653), (313, 12698), (317, 12713), (335, 12875), (342, 12938), (345, 12965), (360, 13037), (367, 13076), (375, 13127), (378, 13148), (385, 13178), (387, 13184), (391, 13208), (403, 13259), (411, 13313), (419, 13355), (422, 13376), (426, 13412), (431, 13463), (451, 13604), (452, 13607), (472, 13691), (477, 13718), (491, 13802), (522, 14042), (535, 14117), (569, 14555), (570, 14564), (577, 14636), (578, 14645), (590, 14720), (598, 14750), (603, 14771), (620, 14888), (629, 14963), (634, 15002), (635, 15014),

Gene: Larva_19 Start: 11980, Stop: 16092, Start Num: 13
Candidate Starts for Larva_19:
(Start: 13 @11980 has 30 MA's), (24, 12073), (30, 12151), (32, 12175), (42, 12235), (58, 12319), (79, 12433), (89, 12493), (90, 12505), (95, 12526), (103, 12580), (114, 12628), (124, 12673), (127, 12694), (144, 12811), (157, 12889), (161, 12913), (170, 12979), (180, 13054), (194, 13147), (199, 13177), (230, 13351), (239, 13390), (243, 13414), (247, 13435), (265, 13495), (283, 13573), (300, 13660), (309, 13726), (315, 13768), (317, 13777), (324, 13861), (331, 13882), (333, 13915), (340, 13981), (342, 14002), (349, 14056), (352, 14065), (356, 14083), (361, 14110), (367, 14140), (373, 14176), (390, 14266), (391, 14272), (393, 14290), (415, 14395), (423, 14461), (451, 14656), (458, 14686), (466, 14719), (477, 14770), (478, 14791), (482, 14806), (483, 14812), (493, 14896), (499, 14944),

(507, 14983), (515, 15043), (516, 15076), (520, 15097), (526, 15121), (530, 15151), (543, 15217),
(550, 15289), (569, 15604), (570, 15613), (571, 15616), (572, 15643), (573, 15658), (575, 15673),
(577, 15685), (582, 15715), (590, 15769), (596, 15787), (608, 15856), (614, 15904), (620, 15928),
(622, 15940), (624, 15949), (633, 16021), (635, 16045), (640, 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), (40, 11315), (43, 11339), (49, 11369), (52,
11390), (53, 11402), (55, 11408), (60, 11435), (67, 11462), (81, 11549), (88, 11582), (91, 11600), (92,
11603), (98, 11645), (110, 11693), (134, 11819), (138, 11861), (141, 11876), (147, 11912), (158,
11984), (176, 12086), (194, 12224), (201, 12269), (211, 12311), (212, 12314), (213, 12320), (214,
12332), (218, 12362), (228, 12422), (234, 12440), (237, 12455), (240, 12473), (241, 12476), (247,
12509), (274, 12590), (277, 12605), (283, 12644), (288, 12665), (314, 12842), (317, 12854), (322,
12914), (330, 12956), (342, 13079), (344, 13103), (356, 13160), (359, 13175), (360, 13178), (371,
13244), (373, 13253), (377, 13277), (387, 13325), (403, 13400), (406, 13418), (416, 13478), (420,
13505), (422, 13517), (426, 13553), (428, 13571), (434, 13616), (438, 13646), (443, 13664), (451,
13745), (452, 13748), (472, 13832), (475, 13847), (480, 13886), (481, 13889), (493, 13982), (503,
14048), (522, 14183), (558, 14534), (569, 14705), (577, 14786), (582, 14816), (590, 14870), (620,
15038), (629, 15110), (631, 15128), (632, 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), (61, 12406), (78, 12490), (79,
12499), (89, 12559), (90, 12571), (103, 12646), (113, 12688), (122, 12730), (124, 12739), (127,
12760), (133, 12799), (144, 12877), (157, 12955), (180, 13120), (194, 13213), (198, 13234), (199,
13243), (243, 13480), (248, 13504), (254, 13519), (263, 13552), (283, 13639), (304, 13747), (314,
13831), (317, 13843), (321, 13864), (330, 13945), (391, 14020), (407, 14101), (409, 14110), (416,
14149), (419, 14167), (422, 14188), (426, 14224), (431, 14275), (442, 14332), (451, 14410), (453,
14419), (472, 14497), (475, 14512), (481, 14554), (491, 14608), (522, 14848), (535, 14923), (548,
15034), (560, 15253), (569, 15367), (577, 15448), (578, 15457), (590, 15529), (598, 15559), (603,
15580), (620, 15697), (629, 15769), (632, 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), (39, 12094), (57, 12196), (58, 12202), (61, 12223), (89,
12376), (90, 12388), (103, 12463), (124, 12556), (127, 12577), (133, 12616), (144, 12694), (157,
12772), (161, 12796), (169, 12850), (170, 12862), (180, 12937), (194, 13030), (212, 13111), (221,
13174), (228, 13228), (235, 13249), (237, 13261), (243, 13297), (247, 13318), (257, 13345), (263,
13369), (269, 13390), (275, 13411), (283, 13456), (303, 13582), (309, 13630), (319, 13690), (320,
13696), (331, 13786), (340, 13885), (341, 13897), (347, 13948), (348, 13954), (360, 14005), (367,
14044), (369, 14065), (391, 14176), (405, 14236), (410, 14269), (412, 14287), (416, 14305), (419,
14323), (421, 14335), (426, 14380), (431, 14431), (440, 14479), (451, 14557), (472, 14644), (474,
14650), (475, 14659), (484, 14716), (485, 14719), (493, 14794), (503, 14860), (522, 14995), (533,
15055), (535, 15070), (537, 15076), (570, 15526), (577, 15598), (578, 15607), (592, 15694), (620,
15847), (632, 15946), (635, 15973), (636, 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), (40, 11307), (64, 11445), (79, 11523), (80, 11535), (81,
11541), (88, 11574), (95, 11610), (104, 11667), (106, 11679), (118, 11733), (125, 11763), (138,
11850), (141, 11865), (147, 11901), (163, 11994), (176, 12075), (201, 12258), (203, 12267), (213,
12309), (218, 12351), (228, 12411), (232, 12423), (234, 12429), (237, 12444), (241, 12465), (247,
12498), (281, 12621), (283, 12633), (284, 12639), (288, 12654), (290, 12660), (315, 12744), (323,

12825), (342, 12978), (359, 13074), (367, 13116), (375, 13167), (378, 13188), (385, 13218), (387, 13224), (391, 13248), (405, 13308), (412, 13359), (420, 13404), (422, 13416), (428, 13470), (431, 13503), (442, 13560), (451, 13638), (452, 13641), (472, 13725), (481, 13782), (491, 13836), (493, 13875), (512, 13980), (522, 14076), (535, 14151), (548, 14274), (560, 14493), (577, 14694), (592, 14808), (620, 14985), (629, 15069), (632, 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), (51, 12491), (58, 12536), (61, 12557), (74, 12602), (89, 12710), (90, 12722), (95, 12743), (103, 12797), (110, 12827), (115, 12848), (122, 12881), (124, 12890), (127, 12911), (133, 12950), (144, 13028), (151, 13070), (157, 13106), (161, 13130), (186, 13304), (194, 13364), (198, 13385), (199, 13394), (228, 13562), (235, 13583), (239, 13607), (243, 13631), (247, 13652), (255, 13670), (263, 13703), (275, 13745), (276, 13748), (277, 13751), (283, 13790), (285, 13799), (298, 13868), (312, 13979), (316, 14009), (339, 14207), (342, 14240), (358, 14330), (361, 14348), (367, 14378), (371, 14405), (412, 14621), (419, 14657), (426, 14714), (428, 14732), (431, 14765), (433, 14777), (443, 14825), (451, 14906), (452, 14909), (481, 15026), (493, 15119), (506, 15197), (519, 15296), (522, 15320), (535, 15395), (569, 15854), (571, 15866), (577, 15935), (578, 15944), (611, 16136), (613, 16154), (622, 16190), (624, 16199), (631, 16265), (632, 16271), (634, 16286), (635, 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), (33, 11012), (36, 11021), (57, 11144), (62, 11168), (63, 11171), (72, 11204), (73, 11207), (79, 11258), (84, 11285), (91, 11327), (98, 11372), (107, 11408), (109, 11417), (110, 11420), (111, 11423), (125, 11489), (134, 11546), (138, 11588), (147, 11639), (156, 11699), (158, 11711), (160, 11723), (163, 11732), (176, 11813), (193, 11942), (201, 11990), (208, 12020), (211, 12032), (213, 12041), (218, 12083), (228, 12143), (234, 12161), (237, 12176), (241, 12197), (247, 12230), (256, 12257), (259, 12269), (270, 12302), (277, 12326), (279, 12344), (283, 12365), (301, 12461), (311, 12533), (341, 12791), (344, 12824), (361, 12908), (366, 12935), (372, 12968), (377, 12998), (385, 13040), (387, 13046), (405, 13130), (413, 13184), (428, 13292), (449, 13451), (456, 13475), (459, 13490), (465, 13514), (489, 13625), (495, 13712), (496, 13715), (511, 13802), (513, 13811), (517, 13868), (522, 13901), (531, 13955), (538, 13982), (550, 14096), (564, 14324), (567, 14390), (571, 14426), (575, 14483), (577, 14495), (586, 14573), (594, 14612), (601, 14639), (612, 14747),

Gene: Leston_19 Start: 12267, Stop: 16376, Start Num: 13
Candidate Starts for Leston_19:
(Start: 13 @12267 has 30 MA's), (42, 12525), (58, 12609), (74, 12675), (79, 12723), (89, 12783), (90, 12795), (95, 12816), (103, 12870), (110, 12900), (124, 12963), (127, 12984), (135, 13041), (144, 13101), (157, 13179), (161, 13203), (167, 13245), (172, 13278), (194, 13437), (198, 13458), (217, 13536), (227, 13599), (229, 13614), (230, 13617), (233, 13626), (235, 13632), (237, 13644), (243, 13680), (246, 13698), (277, 13800), (283, 13839), (309, 13992), (315, 14034), (320, 14058), (331, 14148), (333, 14181), (340, 14247), (349, 14322), (352, 14331), (356, 14349), (361, 14376), (374, 14454), (391, 14538), (415, 14661), (423, 14727), (439, 14829), (451, 14922), (458, 14952), (464, 14979), (466, 14985), (477, 15036), (478, 15057), (482, 15072), (483, 15078), (493, 15162), (497, 15192), (499, 15210), (507, 15249), (515, 15309), (516, 15342), (520, 15363), (526, 15387), (530, 15420), (543, 15504), (550, 15576), (569, 15885), (573, 15939), (575, 15954), (577, 15966), (582, 15996), (614, 16182), (620, 16206), (622, 16218), (633, 16305), (635, 16329),

Gene: Liefie_16 Start: 11463, Stop: 15476, Start Num: 14
Candidate Starts for Liefie_16:
(Start: 14 @11463 has 171 MA's), (34, 11664), (52, 11766), (53, 11778), (61, 11820), (66, 11841), (69, 11850), (90, 11985), (93, 11997), (95, 12006), (130, 12195), (133, 12213), (134, 12216), (136, 12237),

(137, 12249), (149, 12321), (157, 12369), (177, 12501), (179, 12525), (190, 12606), (215, 12729),
(227, 12813), (236, 12849), (243, 12894), (244, 12900), (275, 13008), (279, 13032), (283, 13053),
(320, 13272), (336, 13422), (345, 13509), (366, 13617), (391, 13752), (411, 13857), (412, 13863),
(416, 13881), (421, 13911), (449, 14133), (456, 14157), (459, 14172), (463, 14193), (477, 14247),
(488, 14307), (496, 14397), (501, 14430), (513, 14493), (517, 14550), (521, 14583), (524, 14592),
(571, 15096), (572, 15123), (575, 15153), (577, 15165), (578, 15174), (590, 15243), (608, 15324),
(617, 15384), (621, 15402), (623, 15411),

Gene: LilDirt_18 Start: 11997, Stop: 16103, Start Num: 13
Candidate Starts for LilDirt_18:
(Start: 13 @11997 has 30 MA's), (24, 12090), (30, 12168), (32, 12192), (42, 12252), (58, 12336), (59,
12348), (79, 12450), (89, 12510), (90, 12522), (95, 12543), (103, 12597), (114, 12645), (124, 12690),
(127, 12711), (144, 12828), (157, 12906), (161, 12930), (170, 12996), (180, 13071), (194, 13164),
(199, 13194), (230, 13368), (233, 13377), (239, 13407), (243, 13431), (247, 13452), (265, 13512),
(283, 13590), (285, 13599), (300, 13677), (309, 13743), (315, 13785), (317, 13794), (324, 13878),
(331, 13899), (333, 13932), (340, 13998), (342, 14019), (349, 14073), (352, 14082), (356, 14100),
(360, 14118), (361, 14127), (367, 14157), (373, 14193), (382, 14247), (390, 14283), (391, 14289),
(393, 14307), (415, 14412), (423, 14478), (451, 14673), (458, 14703), (466, 14736), (477, 14787),
(478, 14808), (482, 14823), (483, 14829), (493, 14913), (499, 14961), (507, 15000), (515, 15060),
(516, 15093), (520, 15114), (526, 15138), (530, 15168), (543, 15234), (550, 15306), (569, 15621),
(570, 15630), (571, 15633), (573, 15675), (577, 15702), (582, 15732), (590, 15783), (596, 15801),
(608, 15867), (614, 15915), (620, 15939), (622, 15951), (633, 16032), (635, 16056), (640, 16095),

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), (39, 11561), (58, 11669), (61,
11690), (70, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023),
(127, 12044), (133, 12083), (144, 12161), (157, 12239), (161, 12263), (194, 12497), (212, 12578),
(219, 12638), (228, 12695), (238, 12731), (243, 12764), (248, 12788), (268, 12854), (271, 12863),
(283, 12923), (304, 13031), (309, 13076), (331, 13232), (341, 13343), (342, 13352), (343, 13364),
(352, 13415), (356, 13433), (361, 13460), (367, 13490), (383, 13583), (391, 13622), (422, 13790),
(428, 13844), (431, 13877), (441, 13922), (451, 14003), (452, 14006), (472, 14090), (474, 14096),
(475, 14105), (481, 14147), (490, 14183), (491, 14201), (493, 14240), (502, 14300), (522, 14441),
(533, 14501), (535, 14516), (562, 14858), (577, 15047), (578, 15056), (588, 15119), (632, 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), (61, 12410), (79, 12503), (89,
12563), (90, 12575), (103, 12650), (115, 12701), (124, 12743), (127, 12764), (133, 12803), (144,
12881), (157, 12959), (161, 12983), (180, 13124), (194, 13217), (196, 13226), (198, 13238), (199,
13247), (243, 13484), (248, 13508), (254, 13523), (263, 13556), (283, 13643), (289, 13667), (304,
13751), (314, 13835), (317, 13847), (321, 13868), (330, 13949), (391, 14024), (407, 14105), (416,
14153), (419, 14171), (421, 14183), (422, 14192), (426, 14228), (431, 14279), (442, 14336), (451,
14414), (453, 14423), (472, 14501), (475, 14516), (481, 14558), (491, 14612), (522, 14852), (535,
14927), (548, 15038), (560, 15257), (562, 15269), (569, 15371), (577, 15452), (578, 15461), (590,
15533), (598, 15563), (603, 15584), (620, 15704), (629, 15776), (631, 15794), (632, 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), (39, 12347), (57, 12449), (61, 12476), (77,
12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830),
(133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283),
(196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709),

(289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 15866),

Gene: LouisV14_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for LouisV14_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (47, 11986), (52, 12016), (56, 12040), (60, 12061), (64, 12079), (81, 12175), (83, 12181), (85, 12196), (88, 12208), (91, 12226), (97, 12268), (98, 12271), (107, 12307), (110, 12319), (117, 12349), (119, 12361), (121, 12370), (134, 12445), (138, 12487), (141, 12502), (147, 12538), (149, 12553), (157, 12601), (158, 12610), (176, 12712), (187, 12796), (195, 12853), (201, 12895), (209, 12928), (210, 12931), (211, 12937), (213, 12946), (218, 12988), (232, 13060), (234, 13066), (237, 13081), (240, 13099), (241, 13102), (256, 13162), (270, 13207), (277, 13231), (279, 13249), (283, 13270), (289, 13294), (292, 13306), (293, 13309), (301, 13366), (311, 13438), (317, 13480), (336, 13645), (345, 13732), (349, 13759), (354, 13780), (367, 13843), (375, 13894), (387, 13951), (391, 13975), (403, 14026), (410, 14068), (428, 14197), (446, 14287), (447, 14302), (448, 14305), (456, 14371), (459, 14386), (476, 14452), (486, 14506), (489, 14521), (494, 14602), (496, 14611), (513, 14704), (517, 14761), (522, 14794), (531, 14848), (534, 14869), (571, 15325), (572, 15352), (574, 15379), (577, 15394), (578, 15403), (587, 15490), (610, 15628), (612, 15646), (615, 15661),

Gene: MZKinsey_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for MZKinsey_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449,

14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

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), (61, 12453), (78, 12537), (79, 12546), (90, 12618), (103, 12693), (122, 12777), (124, 12786), (127, 12807), (133, 12846), (144, 12924), (157, 13002), (170, 13092), (180, 13167), (194, 13260), (196, 13269), (198, 13281), (199, 13290), (243, 13527), (254, 13566), (263, 13599), (283, 13686), (289, 13710), (304, 13794), (314, 13878), (317, 13890), (321, 13911), (391, 14067), (407, 14148), (411, 14172), (416, 14196), (419, 14214), (422, 14235), (426, 14271), (431, 14322), (442, 14379), (451, 14457), (453, 14466), (472, 14544), (475, 14559), (481, 14601), (491, 14655), (522, 14895), (535, 14970), (548, 15081), (560, 15300), (562, 15312), (577, 15495), (578, 15504), (590, 15576), (598, 15606), (603, 15627), (620, 15747), (629, 15819), (631, 15837), (632, 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), (70, 12826), (78, 12877), (79, 12886), (89, 12946), (90, 12958), (95, 12979), (103, 13033), (124, 13126), (127, 13147), (133, 13186), (136, 13210), (144, 13264), (152, 13309), (157, 13342), (161, 13366), (186, 13540), (198, 13621), (228, 13798), (239, 13843), (243, 13867), (247, 13888), (262, 13936), (275, 13981), (279, 14005), (283, 14026), (298, 14104), (308, 14182), (315, 14242), (316, 14245), (319, 14260), (342, 14476), (348, 14524), (358, 14566), (361, 14584), (367, 14614), (369, 14635), (372, 14644), (377, 14674), (391, 14746), (399, 14776), (419, 14893), (422, 14914), (426, 14950), (428, 14968), (431, 15001), (439, 15046), (443, 15061), (451, 15142), (452, 15145), (469, 15214), (472, 15229), (474, 15235), (475, 15244), (491, 15340), (493, 15379), (519, 15556), (522, 15580), (535, 15655), (566, 16069), (569, 16099), (570, 16108), (571, 16111), (578, 16189), (581, 16207), (582, 16210), (611, 16384), (613, 16402), (624, 16447), (627, 16480), (632, 16516), (634, 16531), (635, 16543),

Gene: Maliketh_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Maliketh_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: Marcoliusprime_17 Start: 10116, Stop: 13784, Start Num: 13
Candidate Starts for Marcoliusprime_17:
(Start: 13 @10116 has 30 MA's), (23, 10188), (65, 10422), (77, 10473), (90, 10566), (95, 10587), (103, 10641), (124, 10734), (127, 10755), (130, 10776), (131, 10782), (144, 10872), (151, 10914), (157, 10950), (164, 10983), (165, 10995), (168, 11019), (170, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (227, 11370), (228, 11382), (230, 11388), (236, 11406), (239, 11427), (243, 11451), (249, 11475), (273, 11484), (282, 11499), (291, 11511), (302, 11544), (309, 11592), (326, 11733), (327, 11739), (332, 11775), (338, 11802), (343, 11820), (379, 11946), (400, 12012), (413, 12066), (419, 12099), (422, 12120), (424, 12144), (429,

12174), (432, 12195), (481, 12417), (493, 12510), (506, 12588), (522, 12711), (539, 12816), (545, 12864), (565, 13251), (569, 13281), (570, 13290), (572, 13320), (600, 13485), (620, 13614), (632, 13707),

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), (40, 11198), (44, 11225), (45, 11234), (56, 11297), (64, 11336), (69, 11351), (79, 11414), (80, 11426), (88, 11465), (104, 11558), (106, 11570), (118, 11624), (138, 11741), (141, 11756), (147, 11792), (156, 11852), (157, 11855), (165, 11897), (176, 11966), (201, 12149), (213, 12200), (214, 12212), (228, 12302), (232, 12314), (234, 12320), (237, 12335), (244, 12374), (281, 12512), (283, 12524), (284, 12530), (288, 12545), (290, 12551), (342, 12869), (348, 12917), (352, 12932), (361, 12977), (367, 13007), (375, 13058), (378, 13079), (387, 13115), (391, 13139), (422, 13307), (426, 13343), (428, 13361), (431, 13394), (442, 13451), (451, 13529), (452, 13532), (472, 13616), (491, 13727), (493, 13766), (512, 13871), (522, 13967), (535, 14042), (560, 14390), (577, 14588), (620, 14876), (622, 14888), (629, 14960), (632, 14981),

Gene: Marmie_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Marmie_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (44, 11909), (45, 11918), (55, 11975), (78, 12089), (79, 12098), (80, 12110), (85, 12137), (88, 12149), (92, 12170), (105, 12251), (118, 12308), (125, 12338), (138, 12425), (141, 12440), (142, 12449), (147, 12476), (157, 12539), (158, 12548), (176, 12650), (185, 12725), (201, 12833), (209, 12866), (216, 12908), (218, 12926), (228, 12986), (232, 12998), (234, 13004), (237, 13019), (240, 13037), (241, 13040), (244, 13058), (247, 13073), (258, 13109), (274, 13154), (275, 13163), (278, 13178), (281, 13196), (283, 13208), (284, 13214), (288, 13229), (290, 13235), (316, 13322), (330, 13430), (342, 13553), (352, 13616), (361, 13661), (367, 13691), (375, 13742), (387, 13799), (391, 13823), (407, 13904), (416, 13952), (422, 13991), (426, 14027), (431, 14078), (451, 14219), (452, 14222), (472, 14306), (475, 14321), (481, 14363), (493, 14456), (522, 14657), (535, 14732), (545, 14810), (558, 15026), (560, 15083), (571, 15212), (572, 15239), (577, 15281), (590, 15371), (592, 15383), (606, 15422), (625, 15548), (628, 15572), (629, 15575), (632, 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), (44, 11380), (49, 11407), (66, 11497), (67, 11500), (81, 11587), (99, 11695), (116, 11764), (119, 11782), (134, 11866), (138, 11908), (141, 11923), (142, 11932), (147, 11959), (157, 12022), (165, 12064), (176, 12133), (183, 12196), (184, 12205), (201, 12319), (202, 12325), (211, 12361), (213, 12370), (214, 12382), (216, 12394), (218, 12412), (228, 12472), (232, 12484), (234, 12490), (237, 12505), (240, 12523), (241, 12526), (244, 12544), (247, 12559), (259, 12598), (277, 12655), (278, 12664), (283, 12694), (288, 12715), (295, 12745), (299, 12778), (311, 12862), (314, 12892), (317, 12904), (330, 13006), (337, 13084), (342,

13129), (344, 13153), (355, 13207), (356, 13210), (359, 13225), (367, 13267), (371, 13294), (373, 13303), (375, 13318), (376, 13324), (377, 13327), (406, 13468), (411, 13504), (412, 13510), (416, 13528), (420, 13555), (422, 13567), (428, 13621), (431, 13654), (443, 13714), (451, 13795), (452, 13798), (472, 13882), (475, 13897), (493, 14032), (503, 14098), (522, 14233), (558, 14584), (577, 14839), (578, 14848), (585, 14914), (620, 15109), (624, 15130), (629, 15181), (631, 15199), (632, 15205), (636, 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), (39, 11549), (58, 11657), (61, 11678), (70, 11711), (90, 11843), (94, 11858), (95, 11864), (103, 11918), (110, 11948), (124, 12011), (127, 12032), (133, 12071), (144, 12149), (157, 12227), (161, 12251), (194, 12485), (212, 12566), (219, 12626), (228, 12683), (238, 12719), (243, 12752), (248, 12776), (268, 12842), (271, 12851), (283, 12911), (304, 13019), (309, 13064), (331, 13220), (341, 13331), (342, 13340), (343, 13352), (352, 13403), (356, 13421), (361, 13448), (367, 13478), (383, 13571), (391, 13610), (422, 13778), (428, 13832), (431, 13865), (441, 13910), (451, 13991), (452, 13994), (472, 14078), (474, 14084), (475, 14093), (481, 14135), (490, 14171), (491, 14189), (493, 14228), (502, 14288), (522, 14429), (533, 14489), (535, 14504), (562, 14846), (577, 15035), (578, 15044), (588, 15107), (632, 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), (61, 12412), (77, 12484), (78, 12496), (79, 12505), (90, 12577), (103, 12652), (122, 12736), (124, 12745), (127, 12766), (133, 12805), (144, 12883), (157, 12961), (170, 13051), (180, 13126), (194, 13219), (196, 13228), (198, 13240), (199, 13249), (243, 13486), (254, 13525), (263, 13558), (283, 13645), (289, 13669), (304, 13753), (314, 13837), (317, 13849), (321, 13870), (391, 14026), (407, 14107), (416, 14155), (419, 14173), (422, 14194), (426, 14230), (431, 14281), (442, 14338), (451, 14416), (453, 14425), (472, 14503), (475, 14518), (481, 14560), (491, 14614), (522, 14854), (535, 14929), (548, 15040), (560, 15259), (562, 15271), (577, 15454), (578, 15463), (590, 15535), (598, 15565), (603, 15586), (620, 15706), (629, 15778), (631, 15796), (632, 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), (61, 12413), (79, 12506), (89, 12566), (90, 12578), (103, 12653), (115, 12704), (124, 12746), (127, 12767), (133, 12806), (144, 12884), (157, 12962), (161, 12986), (180, 13127), (194, 13220), (196, 13229), (198, 13241), (199, 13250), (243, 13487), (248, 13511), (254, 13526), (263, 13559), (283, 13646), (289, 13670), (304, 13754), (314, 13838), (317, 13850), (321, 13871), (330, 13952), (391, 14027), (407, 14108), (416, 14156), (419, 14174), (421, 14186), (422, 14195), (426, 14231), (431, 14282), (442, 14339), (451, 14417), (453, 14426), (472, 14504), (475, 14519), (491, 14615), (522, 14855), (535, 14930), (548, 15041), (560, 15260), (562, 15272), (569, 15374), (577, 15455), (578, 15464), (590, 15536), (598, 15566), (603, 15587), (620, 15707), (629, 15779), (631, 15797), (632, 15803),

Gene: Mercurio_17 Start: 11458, Stop: 15474, Start Num: 15
Candidate Starts for Mercurio_17:
(Start: 15 @11458 has 38 MA's), (45, 11725), (57, 11791), (62, 11815), (63, 11818), (69, 11842), (72, 11851), (73, 11854), (79, 11905), (84, 11932), (91, 11974), (98, 12019), (102, 12037), (104, 12040), (110, 12067), (120, 12115), (125, 12136), (134, 12193), (138, 12235), (146, 12280), (147, 12286), (157, 12349), (158, 12358), (160, 12370), (163, 12379), (176, 12460), (201, 12637), (208, 12667), (209, 12670), (213, 12688), (214, 12700), (218, 12730), (225, 12757), (228, 12790), (234, 12808), (237, 12823), (241, 12844), (247, 12877), (256, 12904), (270, 12949), (277, 12973), (279, 12991), (283, 13012), (301, 13108), (308, 13153), (311, 13180), (325, 13309), (341, 13438), (361, 13555), (366, 13582), (372, 13615), (386, 13690), (387, 13693), (405, 13777), (410, 13810), (420, 13873),

(449, 14098), (456, 14122), (459, 14137), (465, 14161), (489, 14272), (494, 14353), (496, 14362), (513, 14455), (517, 14512), (522, 14545), (526, 14560), (575, 15139), (577, 15151), (579, 15166), (587, 15238), (601, 15289), (612, 15397),

Gene: Milly_17 Start: 10116, Stop: 13784, Start Num: 13
Candidate Starts for Milly_17:
(Start: 13 @10116 has 30 MA's), (23, 10188), (65, 10422), (77, 10473), (90, 10566), (95, 10587), (103, 10641), (124, 10734), (127, 10755), (130, 10776), (131, 10782), (144, 10872), (151, 10914), (157, 10950), (164, 10983), (165, 10995), (168, 11019), (170, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (227, 11370), (228, 11382), (230, 11388), (236, 11406), (239, 11427), (243, 11451), (249, 11475), (273, 11484), (282, 11499), (291, 11511), (302, 11544), (309, 11592), (326, 11733), (327, 11739), (332, 11775), (338, 11802), (343, 11820), (357, 11850), (379, 11946), (388, 11979), (400, 12012), (413, 12066), (419, 12099), (422, 12120), (424, 12144), (429, 12174), (432, 12195), (481, 12417), (493, 12510), (506, 12588), (522, 12711), (539, 12816), (545, 12864), (569, 13281), (570, 13290), (572, 13320), (600, 13485), (620, 13614), (632, 13707),

Gene: Miryou_19 Start: 12115, Stop: 16230, Start Num: 13
Candidate Starts for Miryou_19:
(Start: 13 @12115 has 30 MA's), (42, 12373), (58, 12457), (74, 12523), (79, 12571), (89, 12631), (90, 12643), (95, 12664), (103, 12718), (110, 12748), (124, 12811), (127, 12832), (135, 12889), (144, 12949), (151, 12991), (157, 13027), (161, 13051), (167, 13093), (172, 13126), (194, 13285), (198, 13306), (217, 13384), (227, 13447), (229, 13462), (230, 13465), (233, 13474), (235, 13480), (237, 13492), (243, 13528), (246, 13546), (277, 13648), (283, 13687), (309, 13840), (315, 13882), (320, 13906), (331, 13996), (333, 14029), (340, 14095), (349, 14170), (352, 14179), (356, 14197), (361, 14224), (374, 14302), (391, 14386), (415, 14509), (423, 14575), (439, 14677), (451, 14770), (458, 14800), (464, 14827), (466, 14833), (477, 14884), (478, 14905), (482, 14920), (483, 14926), (493, 15010), (497, 15040), (499, 15058), (507, 15097), (515, 15157), (516, 15190), (520, 15211), (526, 15235), (530, 15268), (543, 15352), (550, 15424), (569, 15739), (573, 15793), (575, 15808), (577, 15820), (582, 15850), (614, 16036), (622, 16072), (633, 16159), (635, 16183),

Gene: Mowgli_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Mowgli_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: Mufasa_17 Start: 10138, Stop: 13812, Start Num: 13
Candidate Starts for Mufasa_17:
(Start: 13 @10138 has 30 MA's), (23, 10210), (31, 10309), (65, 10444), (77, 10495), (90, 10588), (103, 10663), (124, 10756), (127, 10777), (130, 10798), (131, 10804), (144, 10894), (151, 10936), (157, 10972), (164, 11005), (165, 11017), (168, 11041), (170, 11062), (175, 11086), (176, 11092), (179, 11128), (180, 11137), (186, 11170), (188, 11182), (190, 11209), (227, 11392), (228, 11404), (230, 11410), (239, 11449), (243, 11473), (273, 11506), (288, 11524), (291, 11533), (302, 11566), (326, 11755), (327, 11761), (332, 11797), (338, 11824), (343, 11842), (351, 11860), (357, 11872), (379, 11968), (388, 12001), (400, 12034), (413, 12088), (419, 12121), (422, 12142), (424, 12166), (429, 12196), (432, 12217), (472, 12385), (476, 12403), (481, 12439), (493, 12532), (506, 12610), (522,

12733), (545, 12886), (565, 13273), (569, 13303), (570, 13312), (572, 13342), (580, 13402), (600, 13510), (620, 13642), (632, 13735),

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), (61, 12399), (78, 12483), (79, 12492), (89, 12552), (90, 12564), (103, 12639), (113, 12681), (122, 12723), (124, 12732), (127, 12753), (133, 12792), (144, 12870), (157, 12948), (180, 13113), (194, 13206), (198, 13227), (199, 13236), (243, 13473), (248, 13497), (254, 13512), (263, 13545), (283, 13632), (304, 13740), (314, 13824), (317, 13836), (321, 13857), (330, 13938), (391, 14013), (407, 14094), (409, 14103), (416, 14142), (419, 14160), (422, 14181), (426, 14217), (431, 14268), (442, 14325), (451, 14403), (453, 14412), (472, 14490), (475, 14505), (481, 14547), (491, 14601), (522, 14841), (535, 14916), (548, 15027), (560, 15246), (569, 15360), (577, 15441), (578, 15450), (590, 15522), (598, 15552), (603, 15573), (620, 15690), (629, 15762), (632, 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), (61, 12459), (77, 12531), (78, 12543), (79, 12552), (90, 12624), (103, 12699), (122, 12783), (124, 12792), (127, 12813), (133, 12852), (144, 12930), (157, 13008), (170, 13098), (180, 13173), (194, 13266), (196, 13275), (198, 13287), (199, 13296), (243, 13533), (254, 13572), (263, 13605), (283, 13692), (289, 13716), (304, 13800), (314, 13884), (317, 13896), (321, 13917), (391, 14073), (407, 14154), (416, 14202), (419, 14220), (422, 14241), (426, 14277), (431, 14328), (442, 14385), (451, 14463), (453, 14472), (472, 14550), (475, 14565), (481, 14607), (491, 14661), (522, 14901), (535, 14976), (548, 15087), (560, 15306), (562, 15318), (577, 15501), (578, 15510), (590, 15582), (598, 15612), (603, 15633), (620, 15753), (629, 15825), (631, 15843), (632, 15849),

Gene: Neighly_19 Start: 11979, Stop: 16091, Start Num: 13
Candidate Starts for Neighly_19:
(Start: 13 @11979 has 30 MA's), (24, 12072), (30, 12150), (32, 12174), (42, 12234), (58, 12318), (79, 12432), (89, 12492), (90, 12504), (95, 12525), (103, 12579), (114, 12627), (124, 12672), (127, 12693), (144, 12810), (157, 12888), (161, 12912), (170, 12978), (180, 13053), (194, 13146), (199, 13176), (230, 13350), (239, 13389), (243, 13413), (247, 13434), (265, 13494), (283, 13572), (300, 13659), (309, 13725), (315, 13767), (317, 13776), (324, 13860), (331, 13881), (333, 13914), (340, 13980), (342, 14001), (349, 14055), (352, 14064), (356, 14082), (361, 14109), (367, 14139), (373, 14175), (390, 14265), (391, 14271), (393, 14289), (415, 14394), (423, 14460), (451, 14655), (458, 14685), (466, 14718), (477, 14769), (478, 14790), (482, 14805), (483, 14811), (493, 14895), (499, 14943), (507, 14982), (515, 15042), (516, 15075), (520, 15096), (526, 15120), (530, 15150), (543, 15216), (550, 15288), (569, 15603), (570, 15612), (571, 15615), (572, 15642), (573, 15657), (575, 15672), (577, 15684), (582, 15714), (590, 15768), (596, 15786), (608, 15855), (614, 15903), (620, 15927), (622, 15939), (624, 15948), (633, 16020), (635, 16044), (640, 16083),

Gene: Neoh_16 Start: 11456, Stop: 15469, Start Num: 14
Candidate Starts for Neoh_16:
(Start: 14 @11456 has 171 MA's), (34, 11657), (53, 11771), (61, 11813), (69, 11843), (90, 11978), (93, 11990), (95, 11999), (130, 12188), (133, 12206), (134, 12209), (136, 12230), (137, 12242), (149, 12314), (157, 12362), (177, 12494), (179, 12518), (190, 12599), (215, 12722), (227, 12806), (236, 12842), (243, 12887), (244, 12893), (275, 13001), (279, 13025), (283, 13046), (320, 13265), (336, 13415), (345, 13502), (366, 13610), (391, 13745), (412, 13856), (416, 13874), (421, 13904), (449, 14126), (456, 14150), (459, 14165), (463, 14186), (472, 14213), (477, 14240), (488, 14300), (496, 14390), (501, 14423), (513, 14486), (517, 14543), (521, 14576), (524, 14585), (571, 15089), (572, 15116), (575, 15146), (577, 15158), (578, 15167), (590, 15236), (608, 15317), (617, 15377), (621, 15395), (623, 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), (40, 11347), (44, 11374), (45, 11383), (64, 11485), (88, 11614), (104, 11707), (106, 11719), (118, 11773), (125, 11803), (138, 11890), (141, 11905), (156, 12001), (157, 12004), (165, 12046), (176, 12115), (201, 12298), (213, 12349), (214, 12361), (218, 12391), (228, 12451), (232, 12463), (234, 12469), (237, 12484), (240, 12502), (241, 12505), (279, 12652), (281, 12661), (283, 12673), (284, 12679), (288, 12694), (290, 12700), (315, 12784), (322, 12853), (342, 13018), (348, 13066), (361, 13126), (367, 13156), (375, 13207), (378, 13228), (387, 13264), (399, 13318), (422, 13456), (428, 13510), (431, 13543), (437, 13561), (442, 13600), (451, 13678), (452, 13681), (472, 13765), (481, 13822), (490, 13858), (491, 13876), (493, 13915), (522, 14116), (529, 14158), (535, 14191), (560, 14533), (577, 14731), (620, 15019), (622, 15031), (629, 15103), (632, 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), (39, 11561), (58, 11669), (61, 11690), (70, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (133, 12083), (144, 12161), (157, 12239), (161, 12263), (194, 12497), (212, 12578), (219, 12638), (228, 12695), (238, 12731), (243, 12764), (248, 12788), (268, 12854), (271, 12863), (283, 12923), (304, 13031), (309, 13076), (331, 13232), (341, 13343), (342, 13352), (343, 13364), (352, 13415), (356, 13433), (361, 13460), (367, 13490), (383, 13583), (391, 13622), (398, 13649), (422, 13790), (428, 13844), (431, 13877), (441, 13922), (451, 14003), (452, 14006), (472, 14090), (474, 14096), (475, 14105), (481, 14147), (490, 14183), (491, 14201), (493, 14240), (502, 14300), (522, 14441), (533, 14501), (535, 14516), (562, 14858), (577, 15047), (578, 15056), (588, 15119), (632, 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), (44, 11380), (49, 11407), (66, 11497), (67, 11500), (81, 11587), (99, 11695), (116, 11764), (119, 11782), (134, 11866), (138, 11908), (141, 11923), (142, 11932), (147, 11959), (157, 12022), (165, 12064), (176, 12133), (183, 12196), (184, 12205), (201, 12319), (202, 12325), (211, 12361), (213, 12370), (214, 12382), (216, 12394), (218, 12412), (228, 12472), (232, 12484), (234, 12490), (237, 12505), (240, 12523), (241, 12526), (244, 12544), (247, 12559), (259, 12598), (277, 12655), (278, 12664), (283, 12694), (288, 12715), (295, 12745), (299, 12778), (311, 12862), (314, 12892), (317, 12904), (330, 13006), (337, 13084), (342, 13129), (344, 13153), (355, 13207), (356, 13210), (359, 13225), (367, 13267), (371, 13294), (373, 13303), (375, 13318), (376, 13324), (377, 13327), (406, 13468), (411, 13504), (412, 13510), (416, 13528), (420, 13555), (422, 13567), (428, 13621), (431, 13654), (443, 13714), (451, 13795), (452, 13798), (472, 13882), (475, 13897), (493, 14032), (503, 14098), (522, 14233), (558, 14584), (577, 14839), (578, 14848), (585, 14914), (620, 15109), (624, 15130), (629, 15181), (631, 15199), (632, 15205), (636, 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), (16, 10344), (41, 10602), (48, 10635), (49, 10638), (53, 10671), (66, 10728), (71, 10743), (72, 10746), (79, 10800), (82, 10821), (85, 10839), (87, 10851), (92, 10872), (94, 10881), (97, 10911), (121, 11013), (123, 11022), (128, 11055), (139, 11121), (141, 11133), (142, 11142), (150, 11187), (155, 11220), (157, 11232), (162, 11259), (176, 11343), (185, 11418), (189, 11457), (198, 11502), (201, 11526), (211, 11568), (212, 11571), (213, 11577), (214, 11589), (223, 11634), (232, 11691), (234, 11697), (237, 11712), (240, 11730), (247, 11766), (253, 11784), (258, 11802), (267, 11829), (270, 11838), (279, 11880), (280, 11886), (288, 11922), (290, 11928), (303, 11961), (312, 11985), (314, 12009), (339, 12213), (342, 12246), (343, 12258),

(348, 12294), (365, 12378), (367, 12384), (384, 12477), (392, 12519), (393, 12531), (394, 12540), (396, 12564), (402, 12597), (414, 12675), (419, 12705), (421, 12717), (422, 12726), (423, 12747), (429, 12801), (436, 12846), (446, 12921), (454, 12996), (461, 13032), (471, 13059), (472, 13068), (475, 13080), (479, 13116), (498, 13257), (500, 13266), (509, 13311), (514, 13344), (517, 13398), (522, 13431), (528, 13470), (532, 13491), (536, 13518), (546, 13599), (553, 13680), (554, 13692), (568, 13938), (572, 13983), (577, 14025), (581, 14052), (585, 14106), (589, 14127), (591, 14142), (594, 14148), (604, 14202), (605, 14208), (609, 14244), (616, 14301), (618, 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), (70, 12431), (78, 12482), (79, 12491), (89, 12551), (90, 12563), (95, 12584), (103, 12638), (110, 12668), (124, 12731), (127, 12752), (133, 12791), (144, 12869), (157, 12947), (161, 12971), (169, 13025), (170, 13037), (179, 13103), (186, 13145), (190, 13184), (192, 13196), (198, 13226), (199, 13235), (221, 13349), (224, 13364), (233, 13418), (239, 13448), (243, 13472), (247, 13493), (262, 13541), (275, 13586), (276, 13589), (283, 13631), (288, 13652), (297, 13700), (303, 13757), (306, 13772), (308, 13787), (310, 13808), (312, 13820), (319, 13865), (331, 13961), (367, 14219), (369, 14240), (387, 14327), (391, 14351), (398, 14378), (399, 14381), (405, 14411), (412, 14462), (419, 14498), (431, 14606), (451, 14741), (452, 14744), (468, 14810), (470, 14816), (477, 14855), (487, 14927), (489, 14933), (491, 14954), (498, 15038), (505, 15068), (508, 15089), (510, 15101), (518, 15182), (523, 15215), (525, 15224), (527, 15230), (533, 15272), (537, 15290), (540, 15323), (541, 15329), (560, 15617), (569, 15731), (570, 15740), (571, 15743), (577, 15812), (603, 15947), (620, 16067), (632, 16163), (636, 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), (39, 11561), (58, 11669), (61, 11690), (70, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (133, 12083), (144, 12161), (157, 12239), (161, 12263), (194, 12497), (212, 12578), (219, 12638), (228, 12695), (238, 12731), (243, 12764), (248, 12788), (268, 12854), (271, 12863), (283, 12923), (304, 13031), (309, 13076), (331, 13232), (341, 13343), (342, 13352), (343, 13364), (352, 13415), (356, 13433), (361, 13460), (367, 13490), (383, 13583), (391, 13622), (422, 13790), (428, 13844), (431, 13877), (441, 13922), (451, 14003), (452, 14006), (472, 14090), (474, 14096), (475, 14105), (481, 14147), (490, 14183), (491, 14201), (493, 14240), (502, 14300), (522, 14441), (533, 14501), (535, 14516), (562, 14858), (577, 15047), (578, 15056), (588, 15119), (632, 15395),

Gene: OctaviousRex_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for OctaviousRex_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: OkiRoe_19 Start: 12137, Stop: 16246, Start Num: 13
Candidate Starts for OkiRoe_19:
(Start: 13 @12137 has 30 MA's), (42, 12395), (58, 12479), (74, 12545), (79, 12593), (89, 12653), (90, 12665), (95, 12686), (103, 12740), (110, 12770), (124, 12833), (127, 12854), (135, 12911), (144, 12971), (157, 13049), (161, 13073), (167, 13115), (172, 13148), (194, 13307), (198, 13328), (217,

13406), (227, 13469), (229, 13484), (230, 13487), (233, 13496), (235, 13502), (237, 13514), (246, 13568), (277, 13670), (283, 13709), (309, 13862), (315, 13904), (320, 13928), (331, 14018), (333, 14051), (349, 14192), (352, 14201), (356, 14219), (361, 14246), (374, 14324), (391, 14408), (415, 14531), (423, 14597), (439, 14699), (451, 14792), (458, 14822), (464, 14849), (466, 14855), (477, 14906), (478, 14927), (482, 14942), (483, 14948), (493, 15032), (499, 15080), (507, 15119), (515, 15179), (516, 15212), (520, 15233), (526, 15257), (530, 15290), (543, 15374), (550, 15446), (569, 15755), (573, 15809), (575, 15824), (577, 15836), (582, 15866), (614, 16052), (622, 16088), (633, 16175), (635, 16199),

Gene: Olga_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Olga_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (40, 11308), (64, 11446), (79, 11524), (80, 11536), (81, 11542), (88, 11575), (95, 11611), (104, 11668), (106, 11680), (118, 11734), (125, 11764), (138, 11851), (141, 11866), (147, 11902), (163, 11995), (176, 12076), (201, 12259), (203, 12268), (213, 12310), (218, 12352), (228, 12412), (232, 12424), (234, 12430), (237, 12445), (241, 12466), (247, 12499), (281, 12622), (283, 12634), (284, 12640), (288, 12655), (290, 12661), (315, 12745), (323, 12826), (342, 12979), (359, 13075), (361, 13087), (367, 13117), (375, 13168), (378, 13189), (385, 13219), (387, 13225), (391, 13249), (405, 13309), (412, 13360), (420, 13405), (422, 13417), (428, 13471), (431, 13504), (442, 13561), (451, 13639), (452, 13642), (472, 13726), (477, 13753), (481, 13783), (491, 13837), (493, 13876), (522, 14077), (529, 14119), (535, 14152), (537, 14158), (558, 14437), (560, 14494), (577, 14695), (592, 14809), (620, 14986), (629, 15070), (632, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (39, 12307), (57, 12409), (61, 12436), (77, 12508), (78, 12520), (79, 12529), (90, 12601), (103, 12676), (122, 12760), (124, 12769), (127, 12790), (133, 12829), (144, 12907), (157, 12985), (170, 13075), (180, 13150), (194, 13243), (196, 13252), (198, 13264), (199, 13273), (243, 13510), (254, 13549), (263, 13582), (283, 13669), (289, 13693), (304, 13777), (314, 13861), (317, 13873), (321, 13894), (391, 14050), (407, 14131), (416, 14179),

(419, 14197), (422, 14218), (426, 14254), (431, 14305), (442, 14362), (451, 14440), (453, 14449), (472, 14527), (475, 14542), (481, 14584), (491, 14638), (522, 14878), (535, 14953), (548, 15064), (560, 15283), (562, 15295), (577, 15478), (578, 15487), (590, 15559), (598, 15589), (603, 15610), (620, 15730), (629, 15802), (631, 15820), (632, 15826),

Gene: Paola_19 Start: 12137, Stop: 16246, Start Num: 13
Candidate Starts for Paola_19:
(Start: 13 @12137 has 30 MA's), (42, 12395), (58, 12479), (74, 12545), (79, 12593), (89, 12653), (90, 12665), (95, 12686), (103, 12740), (110, 12770), (124, 12833), (127, 12854), (135, 12911), (144, 12971), (157, 13049), (161, 13073), (167, 13115), (172, 13148), (194, 13307), (198, 13328), (217, 13406), (227, 13469), (229, 13484), (230, 13487), (233, 13496), (235, 13502), (237, 13514), (243, 13550), (246, 13568), (277, 13670), (283, 13709), (309, 13862), (315, 13904), (320, 13928), (331, 14018), (333, 14051), (340, 14117), (349, 14192), (352, 14201), (356, 14219), (361, 14246), (374, 14324), (391, 14408), (415, 14531), (423, 14597), (439, 14699), (451, 14792), (458, 14822), (464, 14849), (466, 14855), (477, 14906), (478, 14927), (482, 14942), (483, 14948), (493, 15032), (497, 15062), (499, 15080), (507, 15119), (515, 15179), (516, 15212), (520, 15233), (526, 15257), (530, 15290), (543, 15374), (550, 15446), (569, 15755), (573, 15809), (575, 15824), (577, 15836), (582, 15866), (614, 16052), (620, 16076), (622, 16088), (633, 16175), (635, 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), (44, 11380), (49, 11407), (66, 11497), (67, 11500), (81, 11587), (99, 11695), (116, 11764), (119, 11782), (134, 11866), (138, 11908), (141, 11923), (142, 11932), (147, 11959), (157, 12022), (165, 12064), (176, 12133), (183, 12196), (184, 12205), (201, 12319), (202, 12325), (211, 12361), (213, 12370), (214, 12382), (216, 12394), (218, 12412), (228, 12472), (232, 12484), (234, 12490), (237, 12505), (240, 12523), (241, 12526), (244, 12544), (247, 12559), (259, 12598), (277, 12655), (278, 12664), (283, 12694), (288, 12715), (295, 12745), (299, 12778), (311, 12862), (314, 12892), (317, 12904), (330, 13006), (337, 13084), (342, 13129), (344, 13153), (355, 13207), (356, 13210), (359, 13225), (367, 13267), (371, 13294), (373, 13303), (375, 13318), (376, 13324), (377, 13327), (406, 13468), (411, 13504), (412, 13510), (416, 13528), (420, 13555), (422, 13567), (428, 13621), (431, 13654), (443, 13714), (451, 13795), (452, 13798), (472, 13882), (475, 13897), (493, 14032), (503, 14098), (522, 14233), (558, 14584), (577, 14839), (578, 14848), (585, 14914), (620, 15109), (624, 15130), (629, 15181), (631, 15199), (632, 15205), (636, 15244),

Gene: Peeb_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Peeb_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709),

(289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 15866),

Gene: Periodt_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Periodt_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (58, 12353), (59, 12365), (61, 12374), (78, 12458), (89, 12527), (90, 12539), (95, 12560), (103, 12614), (110, 12644), (124, 12707), (127, 12728), (133, 12767), (144, 12845), (157, 12923), (161, 12947), (186, 13121), (191, 13169), (194, 13181), (198, 13202), (199, 13211), (222, 13331), (235, 13400), (238, 13415), (243, 13448), (247, 13469), (250, 13478), (260, 13508), (263, 13520), (275, 13562), (276, 13565), (277, 13568), (283, 13607), (298, 13685), (308, 13763), (312, 13796), (316, 13826), (323, 13904), (335, 13994), (339, 14024), (342, 14057), (358, 14147), (367, 14195), (391, 14327), (399, 14357), (412, 14438), (419, 14474), (426, 14531), (428, 14549), (431, 14582), (443, 14642), (451, 14723), (460, 14762), (469, 14795), (472, 14810), (474, 14816), (475, 14825), (481, 14867), (491, 14921), (493, 14960), (506, 15038), (522, 15161), (535, 15236), (552, 15425), (566, 15665), (569, 15695), (571, 15707), (578, 15785), (602, 15914), (613, 16001), (614, 16004), (622, 16037), (627, 16082), (632, 16118), (634, 16133), (635, 16145), (638, 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), (35, 11321), (44, 11375), (47, 11393), (51, 11411), (53, 11435), (55, 11441), (60, 11468), (62, 11474), (64, 11486), (75, 11519), (88, 11615), (91, 11633), (92, 11636), (116, 11750), (118, 11765), (138, 11882), (154, 11978), (160, 12017), (165, 12038), (166, 12047), (176, 12107), (201, 12290), (202, 12296), (203, 12299), (214, 12353), (218, 12383), (228, 12443), (232, 12455), (234, 12461), (237, 12476), (241, 12497), (244, 12515), (281, 12653), (283, 12665), (288, 12686), (296, 12725), (316, 12779), (317, 12785), (330, 12887), (335, 12947), (342, 13010), (356, 13091), (359, 13106), (360, 13109), (367, 13148), (373, 13184), (375, 13199), (376, 13205), (381, 13232), (387, 13256), (403, 13331), (412, 13391), (422, 13448), (426, 13484), (431, 13535), (451, 13676), (452, 13679), (472, 13763), (477, 13790), (491, 13874), (493, 13913), (522, 14114), (535, 14189), (556, 14408), (561, 14522), (569, 14624), (570, 14633), (577, 14705), (590, 14789), (598, 14819), (603, 14840), (620, 14957), (629, 15032), (634, 15071), (635, 15083),

Gene: Phish_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Phish_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336,

13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: Phloodle_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Phloodle_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (35, 11269), (40, 11296), (44, 11323), (47, 11341), (51, 11359), (53, 11383), (55, 11389), (60, 11416), (62, 11422), (72, 11458), (75, 11467), (77, 11491), (88, 11563), (91, 11581), (92, 11584), (118, 11713), (138, 11830), (154, 11926), (160, 11965), (166, 11995), (176, 12055), (201, 12238), (202, 12244), (203, 12247), (214, 12301), (218, 12331), (228, 12391), (232, 12403), (234, 12409), (237, 12424), (241, 12445), (244, 12463), (281, 12601), (283, 12613), (288, 12634), (296, 12673), (316, 12727), (317, 12733), (335, 12895), (342, 12958), (356, 13039), (359, 13054), (367, 13096), (375, 13147), (378, 13168), (385, 13198), (387, 13204), (391, 13228), (403, 13279), (412, 13339), (422, 13396), (426, 13432), (428, 13450), (431, 13483), (451, 13624), (452, 13627), (472, 13711), (477, 13738), (491, 13822), (522, 14062), (535, 14137), (561, 14470), (569, 14572), (570, 14581), (577, 14653), (590, 14737), (598, 14767), (603, 14788), (620, 14905), (629, 14980), (634, 15019), (635, 15031),

Gene: Phreak_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Phreak_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993),

(548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 15866),

Gene: PinkYoshi_16 Start: 11455, Stop: 15468, Start Num: 14
Candidate Starts for PinkYoshi_16:
(Start: 14 @11455 has 171 MA's), (34, 11656), (53, 11770), (61, 11812), (69, 11842), (90, 11977), (93, 11989), (95, 11998), (130, 12187), (133, 12205), (134, 12208), (136, 12229), (137, 12241), (149, 12313), (157, 12361), (177, 12493), (179, 12517), (190, 12598), (215, 12721), (227, 12805), (236, 12841), (243, 12886), (244, 12892), (275, 13000), (279, 13024), (283, 13045), (320, 13264), (336, 13414), (345, 13501), (366, 13609), (391, 13744), (412, 13855), (416, 13873), (421, 13903), (449, 14125), (456, 14149), (459, 14164), (463, 14185), (472, 14212), (477, 14239), (488, 14299), (496, 14389), (501, 14422), (513, 14485), (517, 14542), (521, 14575), (524, 14584), (571, 15088), (572, 15115), (575, 15145), (577, 15157), (578, 15166), (590, 15235), (608, 15316), (617, 15376), (621, 15394), (623, 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), (33, 12359), (35, 12362), (47, 12434), (51, 12452), (52, 12464), (60, 12509), (64, 12527), (81, 12623), (83, 12629), (85, 12644), (88, 12656), (91, 12674), (97, 12716), (98, 12719), (107, 12755), (110, 12767), (116, 12791), (117, 12797), (121, 12818), (134, 12893), (138, 12935), (141, 12950), (147, 12986), (149, 13001), (157, 13049), (158, 13058), (176, 13160), (195, 13301), (201, 13343), (208, 13373), (210, 13379), (211, 13385), (218, 13436), (232, 13508), (234, 13514), (237, 13529), (240, 13547), (241, 13550), (256, 13610), (270, 13655), (279, 13697), (283, 13718), (289, 13742), (292, 13754), (293, 13757), (301, 13814), (311, 13886), (317, 13928), (330, 14030), (336, 14093), (349, 14207), (354, 14228), (366, 14288), (375, 14342), (376, 14348), (387, 14399), (403, 14474), (410, 14516), (420, 14579), (446, 14744), (456, 14828), (459, 14843), (462, 14861), (465, 14867), (476, 14909), (477, 14918), (486, 14963), (489, 14978), (494, 15059), (496, 15068), (513, 15161), (517, 15218), (522, 15251), (531, 15305), (534, 15326), (571, 15785), (572, 15812), (574, 15839), (577, 15854), (578, 15863), (587, 15950), (610, 16088), (612, 16106), (620, 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), (58, 12175), (61, 12196), (70, 12229), (78, 12280), (79, 12289), (89, 12349), (90, 12361), (103, 12436), (115, 12487), (124, 12529), (127, 12550), (133, 12589), (144, 12667), (157, 12745), (169, 12823), (172, 12844), (173, 12850), (180, 12910), (194, 13003), (198, 13024), (199, 13033), (212, 13084), (220, 13147), (238, 13237), (243, 13270), (264, 13348), (268, 13360), (271, 13369), (275, 13384), (276, 13387), (283, 13429), (300, 13516), (304, 13537), (314, 13621), (317, 13633), (330, 13735), (331, 13738), (342, 13858), (348, 13906), (350, 13915), (356, 13939), (360, 13957), (361, 13966), (367, 13996), (369, 14017), (376, 14053), (391, 14128), (406, 14197), (422, 14296), (426, 14332), (428, 14350), (431, 14383), (451, 14518), (453, 14527), (472, 14605), (475, 14620), (481, 14662), (491, 14716), (522, 14956), (535, 15031), (548, 15142), (551, 15184), (569, 15475), (577, 15556), (578, 15565), (590, 15637), (592, 15649), (598, 15667), (603, 15688), (620, 15808), (629, 15880), (631, 15898), (632, 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), (58, 12175), (61, 12196), (70, 12229), (78, 12280), (79, 12289), (89, 12349), (90, 12361), (103, 12436), (115, 12487), (124, 12529), (127, 12550), (133, 12589), (144, 12667), (157, 12745), (169, 12823), (172, 12844), (173, 12850), (180, 12910), (194, 13003), (198, 13024), (199, 13033), (212, 13084), (220, 13147), (238, 13237), (243, 13270), (264, 13348), (268, 13360), (271, 13369), (275, 13384), (276, 13387), (283, 13429), (300, 13516), (304, 13537), (314, 13621), (317, 13633), (330, 13735), (331, 13738), (342, 13858),

(348, 13906), (350, 13915), (356, 13939), (360, 13957), (361, 13966), (367, 13996), (369, 14017), (376, 14053), (391, 14128), (406, 14197), (422, 14296), (426, 14332), (428, 14350), (431, 14383), (451, 14518), (453, 14527), (472, 14605), (475, 14620), (481, 14662), (491, 14716), (522, 14956), (535, 15031), (548, 15142), (551, 15184), (569, 15475), (577, 15556), (578, 15565), (590, 15637), (592, 15649), (598, 15667), (603, 15688), (620, 15808), (629, 15880), (631, 15898), (632, 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), (51, 12243), (58, 12288), (61, 12309), (89, 12462), (90, 12474), (95, 12495), (103, 12549), (110, 12579), (115, 12600), (122, 12633), (124, 12642), (127, 12663), (133, 12702), (144, 12780), (151, 12822), (157, 12858), (161, 12882), (186, 13056), (190, 13095), (194, 13116), (198, 13137), (199, 13146), (228, 13314), (235, 13335), (239, 13359), (243, 13383), (247, 13404), (255, 13422), (263, 13455), (275, 13497), (276, 13500), (277, 13503), (283, 13542), (285, 13551), (298, 13620), (312, 13731), (316, 13761), (339, 13959), (342, 13992), (358, 14082), (361, 14100), (367, 14130), (371, 14157), (399, 14292), (412, 14373), (419, 14409), (426, 14466), (428, 14484), (430, 14505), (431, 14517), (443, 14577), (451, 14658), (460, 14697), (469, 14730), (472, 14745), (474, 14751), (475, 14760), (481, 14802), (493, 14895), (506, 14973), (522, 15096), (535, 15171), (569, 15636), (571, 15648), (577, 15717), (578, 15726), (611, 15918), (613, 15936), (622, 15972), (624, 15981), (631, 16047), (632, 16053), (634, 16068), (635, 16080),

Gene: Plagueis_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Plagueis_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (61, 12393), (77, 12465), (78, 12477), (79, 12486), (90, 12558), (103, 12633), (122, 12717), (124, 12726), (127, 12747), (133, 12786), (144, 12864), (157, 12942), (170, 13032), (180, 13107), (194, 13200), (196, 13209), (198, 13221), (199, 13230), (243, 13467), (254, 13506), (263, 13539), (283, 13626), (289, 13650), (304, 13734), (314, 13818), (317, 13830), (321, 13851), (391, 14007), (407, 14088), (416, 14136), (419, 14154), (422, 14175), (426, 14211), (431, 14262), (442, 14319), (451, 14397), (453, 14406), (472, 14484), (475, 14499), (481, 14541), (491, 14595), (522, 14835), (535, 14910), (548, 15021), (560, 15240), (562, 15252), (577, 15435), (578, 15444), (590, 15516), (598, 15546), (603, 15567), (620, 15687), (629, 15759), (631, 15777), (632, 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), (61, 12410), (79, 12503), (89, 12563), (90, 12575), (103, 12650), (115, 12701), (124, 12743), (127, 12764), (133, 12803), (144, 12881), (157, 12959), (161, 12983), (180, 13124), (194, 13217), (196, 13226), (198, 13238), (199, 13247), (243, 13484), (248, 13508), (254, 13523), (263, 13556), (283, 13643), (289, 13667), (304, 13751), (314, 13835), (317, 13847), (321, 13868), (330, 13949), (391, 14024), (407, 14105), (416, 14153), (419, 14171), (421, 14183), (422, 14192), (426, 14228), (431, 14279), (442, 14336), (451,

14414), (453, 14423), (472, 14501), (475, 14516), (481, 14558), (491, 14612), (522, 14852), (535, 14927), (548, 15038), (560, 15257), (562, 15269), (569, 15371), (577, 15452), (578, 15461), (590, 15533), (598, 15563), (603, 15584), (620, 15704), (629, 15776), (631, 15794), (632, 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 30 MA's), (24, 12203), (30, 12281), (32, 12305), (42, 12365), (58, 12449), (79, 12563), (89, 12623), (90, 12635), (95, 12656), (103, 12710), (114, 12758), (124, 12803), (127, 12824), (144, 12941), (157, 13019), (161, 13043), (167, 13085), (170, 13109), (180, 13184), (194, 13277), (199, 13307), (230, 13481), (239, 13520), (243, 13544), (247, 13565), (265, 13625), (283, 13703), (285, 13712), (300, 13790), (309, 13856), (315, 13898), (317, 13907), (324, 13991), (331, 14012), (333, 14045), (340, 14111), (342, 14132), (349, 14186), (352, 14195), (356, 14213), (361, 14240), (367, 14270), (373, 14306), (390, 14396), (391, 14402), (393, 14420), (415, 14525), (423, 14591), (451, 14786), (458, 14816), (466, 14849), (477, 14900), (478, 14921), (482, 14936), (483, 14942), (493, 15026), (499, 15074), (507, 15113), (515, 15173), (516, 15206), (520, 15227), (526, 15251), (530, 15281), (543, 15347), (550, 15419), (569, 15734), (570, 15743), (571, 15746), (572, 15773), (573, 15788), (575, 15803), (577, 15815), (582, 15845), (590, 15899), (596, 15917), (608, 15986), (614, 16034), (620, 16058), (622, 16070), (624, 16079), (633, 16151), (635, 16175), (640, 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), (61, 12456), (78, 12540), (79, 12549), (90, 12621), (103, 12696), (122, 12780), (124, 12789), (127, 12810), (133, 12849), (144, 12927), (157, 13005), (170, 13095), (180, 13170), (194, 13263), (198, 13284), (199, 13293), (226, 13437), (243, 13530), (254, 13569), (263, 13602), (283, 13689), (289, 13713), (304, 13797), (314, 13881), (317, 13893), (321, 13914), (391, 14070), (407, 14151), (416, 14199), (419, 14217), (422, 14238), (426, 14274), (431, 14325), (442, 14382), (451, 14460), (453, 14469), (472, 14547), (481, 14604), (491, 14658), (522, 14898), (535, 14973), (548, 15084), (560, 15303), (562, 15315), (577, 15498), (578, 15507), (590, 15579), (598, 15609), (603, 15630), (620, 15750), (629, 15822), (631, 15840), (632, 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), (34, 11655), (53, 11769), (61, 11811), (66, 11832), (69, 11841), (90, 11976), (95, 11997), (124, 12144), (130, 12186), (133, 12204), (134, 12207), (136, 12228), (137, 12240), (157, 12360), (167, 12426), (177, 12492), (179, 12516), (190, 12597), (215, 12720), (217, 12741), (233, 12831), (236, 12840), (244, 12891), (255, 12924), (259, 12942), (275, 12999), (283, 13044), (300, 13131), (304, 13152), (317, 13248), (320, 13263), (331, 13353), (335, 13410), (336, 13413), (360, 13572), (361, 13581), (366, 13608), (391, 13743), (416, 13872), (421, 13902), (449, 14124), (456, 14148), (459, 14163), (463, 14184), (477, 14238), (488, 14298), (496, 14388), (501, 14421), (504, 14436), (513, 14484), (517, 14541), (521, 14574), (564, 15006), (571, 15096), (572, 15123), (577, 15165), (578, 15174), (590, 15243), (597, 15270), (608, 15327), (617, 15387), (621, 15405), (623, 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), (61, 12439), (77, 12511), (78, 12523), (79, 12532), (90, 12604), (103, 12679), (122, 12763), (124, 12772), (127, 12793), (133, 12832), (144, 12910), (157, 12988), (170, 13078), (180, 13153), (194, 13246), (196, 13255), (198, 13267), (199, 13276), (248, 13537), (254, 13552), (263, 13585), (283, 13672), (289, 13696), (304, 13780), (314, 13864), (317, 13876), (321, 13897), (391, 14053), (407, 14134), (416, 14182), (419, 14200), (422, 14221), (426, 14257), (431, 14308), (442, 14365), (451, 14443), (453, 14452), (472,

14530), (481, 14587), (491, 14641), (522, 14881), (535, 14956), (548, 15067), (560, 15286), (562, 15298), (577, 15484), (578, 15493), (590, 15565), (598, 15595), (603, 15616), (620, 15736), (629, 15808), (631, 15826), (632, 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), (61, 12440), (77, 12512), (78, 12524), (79, 12533), (90, 12605), (103, 12680), (122, 12764), (124, 12773), (127, 12794), (133, 12833), (144, 12911), (157, 12989), (170, 13079), (180, 13154), (194, 13247), (196, 13256), (198, 13268), (199, 13277), (248, 13538), (254, 13553), (263, 13586), (283, 13673), (289, 13697), (304, 13781), (314, 13865), (317, 13877), (321, 13898), (391, 14054), (407, 14135), (416, 14183), (419, 14201), (422, 14222), (426, 14258), (431, 14309), (442, 14366), (451, 14444), (453, 14453), (472, 14531), (481, 14588), (491, 14642), (522, 14882), (535, 14957), (548, 15068), (560, 15287), (562, 15299), (577, 15485), (578, 15494), (590, 15566), (598, 15596), (603, 15617), (620, 15737), (629, 15809), (631, 15827), (632, 15833),

Gene: Rattrick_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Rattrick_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: Remy19_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Remy19_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: Renaissance_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Renaissance_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

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

Candidate Starts for Richarlison_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (44, 11380), (49, 11407), (66, 11497), (67, 11500), (81, 11587), (99, 11695), (116, 11764), (119, 11782), (134, 11866), (138, 11908), (141, 11923), (142, 11932), (147, 11959), (157, 12022), (165, 12064), (176, 12133), (183, 12196), (184, 12205), (201, 12319), (202, 12325), (211, 12361), (213, 12370), (214, 12382), (216, 12394), (218, 12412), (228, 12472), (232, 12484), (234, 12490), (237, 12505), (240, 12523), (241, 12526), (244, 12544), (247, 12559), (259, 12598), (277, 12655), (278, 12664), (283, 12694), (288, 12715), (295, 12745), (299, 12778), (311, 12862), (314, 12892), (317, 12904), (330, 13006), (337, 13084), (342, 13129), (344, 13153), (355, 13207), (356, 13210), (359, 13225), (367, 13267), (371, 13294), (373, 13303), (375, 13318), (376, 13324), (377, 13327), (406, 13468), (411, 13504), (412, 13510), (416, 13528), (420, 13555), (422, 13567), (428, 13621), (431, 13654), (443, 13714), (451, 13795), (452, 13798), (472, 13882), (475, 13897), (493, 14032), (503, 14098), (522, 14233), (558, 14584), (577, 14839), (578, 14848), (585, 14914), (620, 15109), (624, 15130), (629, 15181), (631, 15199), (632, 15205), (636, 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), (39, 12335), (57, 12437), (61, 12464), (77, 12536), (78, 12548), (79, 12557), (90, 12629), (103, 12704), (122, 12788), (124, 12797), (127, 12818), (133, 12857), (137, 12893), (144, 12935), (157, 13013), (170, 13103), (180, 13178), (194, 13271), (196, 13280), (198, 13292), (199, 13301), (243, 13538), (254, 13577), (263, 13610), (283, 13697), (289, 13721), (304, 13805), (314, 13889), (317, 13901), (321, 13922), (391, 14078), (407, 14159), (416, 14207), (419, 14225), (422, 14246), (426, 14282), (431, 14333), (442, 14390), (451, 14468), (453, 14477), (472, 14555), (475, 14570), (481, 14612), (491, 14666), (522, 14906), (535, 14981), (548, 15092), (560, 15311), (562, 15323), (577, 15506), (578, 15515), (590, 15587), (598, 15617), (603, 15638), (620, 15758), (629, 15830), (631, 15848), (632, 15854),

Gene: Ruriko_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Ruriko_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (61, 12387), (78, 12471), (79, 12480), (89, 12540), (90, 12552), (103, 12627), (115, 12678), (124, 12720), (127, 12741), (133, 12780), (144, 12858), (157, 12936), (161, 12960), (180, 13101), (194, 13194), (198, 13215), (199, 13224), (243, 13461), (248, 13485), (254, 13500), (263, 13533), (283, 13620), (300, 13707), (304, 13728), (314, 13812), (317, 13824), (321, 13845), (391, 14001), (407, 14082), (419, 14148), (422, 14169), (426, 14205), (431, 14256), (437, 14274), (442, 14313), (451, 14391), (472, 14478), (475, 14493), (481, 14535), (491, 14589), (522, 14829), (535, 14904), (548, 15015), (550, 15036), (551, 15057), (558, 15177), (569, 15351), (577, 15432), (578, 15441), (590, 15513), (598, 15543), (603, 15564), (620, 15684), (629, 15756), (631, 15774), (632, 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), (40, 11307), (64, 11445), (79, 11523), (80, 11535), (81, 11541), (88, 11574), (95, 11610), (104, 11667), (106, 11679), (118, 11733), (125, 11763), (138, 11850), (141, 11865), (147, 11901), (163, 11994), (176, 12075), (201, 12258), (203, 12267), (213, 12309), (218, 12351), (228, 12411), (232, 12423), (234, 12429), (237, 12444), (241, 12465), (247, 12498), (281, 12621), (283, 12633), (284, 12639), (288, 12654), (290, 12660), (315, 12744), (323, 12825), (342, 12978), (359, 13074), (361, 13086), (367, 13116), (375, 13167), (378, 13188), (385, 13218), (387, 13224), (391, 13248), (405, 13308), (412, 13359), (420, 13404), (422, 13416), (428, 13470), (431, 13503), (442, 13560), (451, 13638), (452, 13641), (472, 13725), (477, 13752), (481, 13782), (491, 13836), (493, 13875), (522, 14076), (529, 14118), (535, 14151), (558, 14439), (560, 14496), (577, 14697), (592, 14811), (620, 14988), (629, 15072), (632, 15093),

Gene: Schiebel_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Schiebel_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (39, 11561), (58, 11669), (61, 11690), (70, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (133, 12083), (144, 12161), (157, 12239), (161, 12263), (194, 12497), (212, 12578), (219, 12638), (228, 12695), (238, 12731), (243, 12764), (248, 12788), (268, 12854), (271, 12863), (283, 12923), (304, 13031), (309, 13076), (331, 13232), (341, 13343), (342, 13352), (343, 13364), (352, 13415), (356, 13433), (361, 13460), (367, 13490), (383, 13583), (391, 13622), (422, 13790), (428, 13844), (431, 13877), (441, 13922), (451, 14003), (452, 14006), (472, 14090), (474, 14096), (475, 14105), (481, 14147), (490, 14183), (491, 14201), (493, 14240), (502, 14300), (522, 14441), (533, 14501), (535, 14516), (562, 14858), (577, 15047), (578, 15056), (588, 15119), (632, 15395),

Gene: ShaboiShabazz_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for ShaboiShabazz_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336,

13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (35, 11160), (44, 11214), (47, 11232), (51, 11250), (55, 11280), (60, 11307), (62, 11313), (88, 11454), (91, 11472), (92, 11475), (116, 11589), (118, 11604), (138, 11721), (141, 11736), (154, 11817), (166, 11886), (176, 11946), (201, 12129), (202, 12135), (214, 12192), (228, 12282), (232, 12294), (234, 12300), (237, 12315), (241, 12336), (244, 12354), (266, 12429), (281, 12492), (283, 12504), (288, 12525), (296, 12564), (313, 12609), (317, 12624), (335, 12786), (345, 12876), (360, 12948), (367, 12987), (375, 13038), (378, 13059), (385, 13089), (387, 13095), (391, 13119), (403, 13170), (419, 13266), (422, 13287), (426, 13323), (431, 13374), (451, 13515), (472, 13602), (477, 13629), (491, 13713), (522, 13953), (535, 14028), (561, 14361), (569, 14463), (570, 14472), (577, 14544), (578, 14553), (590, 14628), (598, 14658), (603, 14679), (620, 14796), (626, 14847), (629, 14871), (634, 14910), (635, 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), (44, 11380), (49, 11407), (66, 11497), (67, 11500), (81, 11587), (99, 11695), (116, 11764), (119, 11782), (134, 11866), (138, 11908), (141, 11923), (142, 11932), (147, 11959), (157, 12022), (165, 12064), (176, 12133), (183, 12196), (184, 12205), (201, 12319), (202, 12325), (211, 12361), (213, 12370), (214, 12382), (216, 12394), (218, 12412), (228, 12472), (232, 12484), (234, 12490), (237, 12505), (240, 12523), (241, 12526), (244, 12544), (247, 12559), (259, 12598), (277, 12655), (278, 12664), (282, 12688), (283, 12694), (288, 12715), (295, 12745), (299, 12778), (311, 12862), (314, 12892), (317, 12904), (330, 13006), (337, 13084), (342, 13129), (344, 13153), (355, 13207), (356, 13210), (359, 13225), (367, 13267), (371, 13294), (373, 13303), (375, 13318), (376, 13324), (377, 13327), (406, 13468), (411, 13504), (412, 13510), (416, 13528), (420, 13555), (422, 13567), (428, 13621), (431, 13654), (443, 13714), (451, 13795), (452, 13798), (472, 13882), (475, 13897), (493, 14032), (503, 14098), (522, 14233), (558, 14584), (577, 14839), (578, 14848), (585, 14914), (620, 15109), (624, 15130), (629, 15181), (631, 15199), (632, 15205), (636, 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), (51, 12491), (58, 12536), (61, 12557), (74, 12602), (89, 12710), (90, 12722), (95, 12743), (103, 12797), (110, 12827), (115, 12848), (122, 12881), (124, 12890), (127, 12911), (133, 12950), (144, 13028), (151, 13070), (157, 13106), (161, 13130), (186, 13304), (194, 13364), (198, 13385), (199, 13394), (228, 13562), (235, 13583), (239, 13607), (243, 13631), (247, 13652), (255, 13670), (263, 13703), (275, 13745), (276, 13748), (277, 13751), (283, 13790), (285, 13799), (298, 13868), (312, 13979), (316, 14009), (339, 14207), (342, 14240), (358, 14330), (361, 14348), (367, 14378), (371, 14405), (412, 14621), (419, 14657), (426, 14714), (428, 14732), (431, 14765), (433, 14777), (443, 14825), (451, 14906), (452, 14909), (481, 15026), (493, 15119), (506, 15197), (519, 15296), (522, 15320), (535, 15395), (569, 15854), (571, 15866), (577, 15935), (578, 15944), (611, 16136), (613, 16154), (622, 16190), (624, 16199), (631, 16265), (632, 16271), (634, 16286), (635, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830),

(133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (35, 11052), (43, 11103), (44, 11106), (62, 11205), (78, 11286), (79, 11295), (85, 11334), (88, 11346), (91, 11364), (92, 11367), (94, 11376), (100, 11424), (104, 11439), (110, 11457), (112, 11463), (114, 11475), (138, 11613), (141, 11628), (153, 11694), (154, 11709), (201, 12021), (212, 12066), (213, 12072), (214, 12084), (218, 12114), (228, 12174), (232, 12186), (234, 12192), (237, 12207), (241, 12228), (244, 12246), (245, 12249), (276, 12354), (283, 12396), (288, 12417), (296, 12456), (316, 12510), (317, 12516), (342, 12675), (346, 12708), (365, 12753), (366, 12756), (367, 12759), (371, 12786), (372, 12789), (373, 12795), (377, 12819), (383, 12852), (390, 12885), (406, 12960), (415, 13014), (416, 13020), (419, 13038), (422, 13059), (425, 13092), (443, 13206), (451, 13287), (452, 13290), (472, 13374), (491, 13485), (493, 13524), (502, 13584), (522, 13725), (535, 13800), (570, 14253), (577, 14325), (583, 14379), (592, 14430), (611, 14556), (620, 14598), (629, 14673), (632, 14694),

Gene: Sizemore_16 Start: 11465, Stop: 15478, Start Num: 14
Candidate Starts for Sizemore_16:
(Start: 14 @11465 has 171 MA's), (34, 11666), (53, 11780), (61, 11822), (69, 11852), (90, 11987), (93, 11999), (95, 12008), (130, 12197), (133, 12215), (134, 12218), (136, 12239), (137, 12251), (149, 12323), (157, 12371), (177, 12503), (179, 12527), (190, 12608), (215, 12731), (227, 12815), (236, 12851), (243, 12896), (244, 12902), (275, 13010), (279, 13034), (283, 13055), (320, 13274), (336, 13424), (345, 13511), (366, 13619), (391, 13754), (412, 13865), (416, 13883), (421, 13913), (449, 14135), (456, 14159), (459, 14174), (463, 14195), (472, 14222), (477, 14249), (488, 14309), (496, 14399), (501, 14432), (513, 14495), (517, 14552), (521, 14585), (524, 14594), (571, 15098), (572, 15125), (575, 15155), (577, 15167), (578, 15176), (590, 15245), (608, 15326), (617, 15386), (621, 15404), (623, 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), (61, 12440), (77, 12512), (78, 12524), (79, 12533), (90, 12605), (103, 12680), (122, 12764), (124, 12773), (127, 12794), (133, 12833), (144, 12911), (157, 12989), (170, 13079), (180, 13154), (194, 13247), (196, 13256), (198, 13268), (199, 13277), (248, 13538), (254, 13553), (263, 13586), (283, 13673), (289, 13697), (304, 13781), (314, 13865), (317, 13877), (321, 13898), (391, 14054), (407, 14135), (416, 14183), (419, 14201), (422, 14222), (426, 14258), (431, 14309), (442, 14366), (451, 14444), (453, 14453), (472, 14531), (481, 14588), (491, 14642), (522, 14882), (535, 14957), (548, 15068), (560, 15287), (562, 15299), (577, 15485), (578, 15494), (590, 15566), (598, 15596), (603, 15617), (620, 15737), (629, 15809), (631, 15827), (632, 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), (34, 11654), (53, 11768), (61, 11810), (66, 11831), (69, 11840), (90, 11975), (95, 11996), (124, 12143), (130, 12185), (133, 12203), (134, 12206), (136, 12227), (137, 12239), (157, 12359), (167, 12425), (177, 12491), (179, 12515), (190, 12596), (215, 12719), (217, 12740), (233, 12830), (236, 12839), (244, 12890), (255, 12923), (259, 12941), (275, 12998), (283, 13043), (300, 13130), (304, 13151), (317, 13247), (320, 13262), (331, 13352), (335,

13409), (336, 13412), (360, 13571), (361, 13580), (366, 13607), (391, 13742), (416, 13871), (421, 13901), (449, 14123), (456, 14147), (459, 14162), (463, 14183), (477, 14237), (488, 14297), (496, 14387), (501, 14420), (504, 14435), (513, 14483), (517, 14540), (521, 14573), (564, 15005), (571, 15095), (572, 15122), (577, 15164), (578, 15173), (590, 15242), (597, 15269), (608, 15326), (617, 15386), (621, 15404), (623, 15413),

Gene: SoSeph_19 Start: 12264, Stop: 16394, Start Num: 13
Candidate Starts for SoSeph_19:
(Start: 13 @12264 has 30 MA's), (24, 12357), (30, 12435), (32, 12459), (42, 12519), (58, 12603), (59, 12615), (79, 12717), (89, 12777), (90, 12789), (95, 12810), (103, 12864), (114, 12912), (124, 12957), (127, 12978), (144, 13095), (157, 13173), (161, 13197), (170, 13263), (180, 13338), (194, 13431), (199, 13461), (230, 13635), (233, 13644), (239, 13674), (243, 13698), (247, 13719), (265, 13779), (283, 13857), (285, 13866), (300, 13944), (309, 14010), (315, 14052), (317, 14061), (324, 14145), (331, 14166), (333, 14199), (349, 14340), (352, 14349), (356, 14367), (361, 14394), (374, 14472), (391, 14556), (415, 14679), (423, 14745), (451, 14940), (458, 14970), (464, 14997), (466, 15003), (473, 15030), (478, 15075), (482, 15090), (483, 15096), (493, 15180), (499, 15228), (507, 15267), (515, 15327), (516, 15360), (520, 15381), (526, 15405), (530, 15438), (543, 15522), (550, 15594), (569, 15903), (573, 15957), (575, 15972), (577, 15984), (582, 16014), (614, 16200), (620, 16224), (622, 16236), (633, 16323), (635, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (33, 11967), (47, 12042), (51, 12060), (52, 12072), (55, 12090), (60, 12117), (62, 12123), (81, 12231), (83, 12237), (85, 12252), (88, 12264), (91, 12282), (98, 12327), (107, 12363), (111, 12378), (114, 12393), (116, 12399), (134, 12501), (138, 12543), (141, 12558), (147, 12594), (157, 12657), (160, 12678), (163, 12687), (172, 12750), (176, 12768), (195, 12909), (201, 12951), (208, 12981), (209, 12984), (211, 12993), (213, 13002), (218, 13044), (231, 13113), (232, 13116), (234, 13122), (237, 13137), (241, 13158), (242, 13167), (270, 13263), (279, 13305), (283, 13326), (289, 13350), (292, 13362), (293, 13365), (301, 13422), (307, 13455), (311, 13494), (317, 13536), (318, 13539), (331, 13641), (336, 13701), (337, 13716), (341, 13752), (349, 13815), (354, 13836), (366, 13896), (387, 14007), (391, 14031), (403, 14082), (404, 14088), (423, 14220), (446, 14352), (456, 14436), (459, 14451), (476, 14517), (489, 14586), (494, 14667), (496, 14676), (513, 14769), (517, 14826), (522, 14859), (532, 14919), (534, 14934), (558, 15213), (571, 15402), (572, 15429), (577, 15471), (610, 15708), (612, 15726), (615, 15741), (617, 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), (61, 12411), (78, 12495), (79, 12504), (89, 12564), (90, 12576), (103, 12651), (113, 12693), (122, 12735), (124, 12744), (127, 12765), (133, 12804), (144, 12882), (157, 12960), (180, 13125), (194, 13218), (198, 13239), (199, 13248), (243, 13485), (248, 13509), (254, 13524), (263, 13557), (283, 13644), (304, 13752), (314,

13836), (317, 13848), (321, 13869), (330, 13950), (391, 14025), (407, 14106), (409, 14115), (416, 14154), (419, 14172), (422, 14193), (426, 14229), (431, 14280), (442, 14337), (451, 14415), (453, 14424), (472, 14502), (475, 14517), (481, 14559), (491, 14613), (522, 14853), (535, 14928), (548, 15039), (560, 15258), (569, 15372), (577, 15453), (578, 15462), (590, 15534), (598, 15564), (603, 15585), (620, 15702), (629, 15774), (632, 15798),

Gene: Strobilo_17 Start: 10116, Stop: 13787, Start Num: 13
Candidate Starts for Strobilo_17:
(Start: 13 @10116 has 30 MA's), (23, 10188), (65, 10422), (77, 10473), (90, 10566), (95, 10587), (103, 10641), (124, 10734), (127, 10755), (130, 10776), (131, 10782), (144, 10872), (151, 10914), (157, 10950), (164, 10983), (165, 10995), (168, 11019), (170, 11040), (175, 11064), (176, 11070), (179, 11106), (180, 11115), (186, 11148), (188, 11160), (190, 11187), (227, 11370), (228, 11382), (230, 11388), (236, 11406), (239, 11427), (243, 11451), (249, 11475), (273, 11484), (282, 11499), (291, 11511), (302, 11544), (309, 11592), (326, 11733), (327, 11739), (332, 11775), (338, 11802), (343, 11820), (357, 11850), (379, 11946), (388, 11979), (401, 12015), (413, 12066), (419, 12099), (422, 12120), (424, 12144), (429, 12174), (432, 12195), (481, 12417), (493, 12510), (506, 12588), (522, 12711), (539, 12816), (545, 12864), (569, 13284), (570, 13293), (572, 13323), (600, 13488), (620, 13617), (632, 13710),

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), (61, 12409), (78, 12493), (79, 12502), (90, 12574), (103, 12649), (122, 12733), (124, 12742), (127, 12763), (133, 12802), (144, 12880), (157, 12958), (170, 13048), (180, 13123), (194, 13216), (198, 13237), (199, 13246), (243, 13483), (254, 13522), (263, 13555), (283, 13642), (289, 13666), (304, 13750), (314, 13834), (317, 13846), (321, 13867), (391, 14023), (407, 14104), (416, 14152), (419, 14170), (422, 14191), (426, 14227), (431, 14278), (442, 14335), (451, 14413), (453, 14422), (472, 14500), (475, 14515), (481, 14557), (491, 14611), (522, 14851), (535, 14926), (548, 15037), (560, 15256), (562, 15268), (577, 15451), (578, 15460), (598, 15562), (603, 15583), (620, 15703), (629, 15775), (631, 15793), (632, 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), (35, 11171), (44, 11225), (47, 11243), (51, 11261), (55, 11291), (60, 11318), (62, 11324), (75, 11369), (88, 11465), (91, 11483), (92, 11486), (116, 11600), (118, 11615), (138, 11732), (141, 11747), (154, 11828), (165, 11888), (166, 11897), (176, 11957), (201, 12140), (202, 12146), (214, 12203), (228, 12293), (232, 12305), (234, 12311), (237, 12326), (241, 12347), (244, 12365), (266, 12440), (281, 12503), (283, 12515), (288, 12536), (296, 12575), (313, 12620), (317, 12635), (335, 12797), (342, 12860), (345, 12887), (360, 12959), (367, 12998), (375, 13049), (378, 13070), (385, 13100), (387, 13106), (391, 13130), (403, 13181), (422, 13298), (426, 13334), (431, 13385), (451, 13526), (472, 13613), (477, 13640), (491, 13724), (522, 13964), (535, 14039), (561, 14372), (569, 14474), (570, 14483), (577, 14555), (578, 14564), (590, 14639), (598, 14669), (603, 14690), (620, 14807), (626, 14858), (629, 14882), (634, 14921), (635, 14933),

Gene: Sweets_16 Start: 11459, Stop: 15472, Start Num: 14
Candidate Starts for Sweets_16:
(Start: 14 @11459 has 171 MA's), (34, 11660), (53, 11774), (61, 11816), (69, 11846), (90, 11981), (93, 11993), (95, 12002), (130, 12191), (133, 12209), (134, 12212), (136, 12233), (137, 12245), (149, 12317), (157, 12365), (177, 12497), (179, 12521), (190, 12602), (215, 12725), (227, 12809), (236, 12845), (243, 12890), (244, 12896), (275, 13004), (279, 13028), (283, 13049), (320, 13268), (336, 13418), (345, 13505), (366, 13613), (391, 13748), (412, 13859), (416, 13877), (421, 13907), (449, 14129), (456, 14153), (459, 14168), (463, 14189), (472, 14216), (477, 14243), (488, 14303), (496,

14393), (501, 14426), (513, 14489), (517, 14546), (521, 14579), (524, 14588), (571, 15092), (572, 15119), (575, 15149), (577, 15161), (578, 15170), (590, 15239), (608, 15320), (617, 15380), (621, 15398), (623, 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), (35, 11266), (44, 11320), (47, 11338), (51, 11356), (55, 11386), (60, 11413), (62, 11419), (75, 11464), (88, 11560), (91, 11578), (92, 11581), (116, 11695), (118, 11710), (138, 11827), (141, 11842), (154, 11923), (165, 11983), (166, 11992), (176, 12052), (201, 12235), (202, 12241), (214, 12298), (228, 12388), (232, 12400), (234, 12406), (237, 12421), (241, 12442), (244, 12460), (266, 12535), (276, 12568), (281, 12598), (283, 12610), (288, 12631), (296, 12670), (313, 12715), (317, 12730), (335, 12892), (342, 12955), (345, 12982), (360, 13054), (367, 13093), (375, 13144), (378, 13165), (385, 13195), (387, 13201), (391, 13225), (403, 13276), (419, 13372), (422, 13393), (426, 13429), (431, 13480), (451, 13621), (452, 13624), (472, 13708), (477, 13735), (491, 13819), (492, 13831), (522, 14059), (535, 14134), (577, 14650), (578, 14659), (590, 14734), (598, 14764), (603, 14785), (620, 14902), (629, 14977), (634, 15016), (635, 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), (51, 12242), (58, 12287), (61, 12308), (89, 12461), (90, 12473), (95, 12494), (103, 12548), (110, 12578), (115, 12599), (122, 12632), (124, 12641), (127, 12662), (133, 12701), (144, 12779), (151, 12821), (157, 12857), (161, 12881), (186, 13055), (190, 13094), (194, 13115), (198, 13136), (199, 13145), (228, 13313), (235, 13334), (239, 13358), (243, 13382), (247, 13403), (255, 13421), (263, 13454), (275, 13496), (276, 13499), (277, 13502), (283, 13541), (285, 13550), (298, 13619), (312, 13730), (316, 13760), (339, 13958), (342, 13991), (358, 14081), (361, 14099), (367, 14129), (371, 14156), (412, 14372), (419, 14408), (426, 14465), (428, 14483), (430, 14504), (431, 14516), (443, 14576), (451, 14657), (460, 14696), (469, 14729), (472, 14744), (474, 14750), (475, 14759), (481, 14801), (493, 14894), (506, 14972), (522, 15095), (535, 15170), (569, 15635), (571, 15647), (577, 15716), (578, 15725), (611, 15917), (622, 15971), (624, 15980), (631, 16046), (632, 16052), (634, 16067), (635, 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), (44, 11315), (60, 11408), (63, 11417), (67, 11435), (72, 11450), (79, 11504), (85, 11543), (88, 11555), (92, 11576), (98, 11618), (104, 11648), (112, 11672), (132, 11783), (138, 11822), (141, 11837), (142, 11846), (147, 11873), (157, 11936), (176, 12047), (181, 12098), (201, 12230), (212, 12275), (213, 12281), (218, 12323), (228, 12383), (232, 12395), (234, 12401), (237, 12416), (241, 12437), (244, 12455), (247, 12470), (258, 12506), (276, 12563), (281, 12593), (283, 12605), (287, 12623), (312, 12689), (316, 12719), (317, 12725), (328, 12824), (331, 12830), (342, 12950), (348, 12998), (352, 13013), (359, 13046), (361, 13058), (367, 13088), (373, 13124), (375, 13139), (376, 13145), (381, 13172), (387, 13196), (391, 13220), (399, 13250), (403, 13271), (416, 13349), (422, 13388), (426, 13424), (431, 13475), (444, 13538), (451, 13616), (452, 13619), (457, 13643), (472, 13703), (493, 13853), (522, 14054), (535, 14129), (544, 14198), (577, 14678), (578, 14687), (582, 14708), (590, 14783), (592, 14795), (598, 14813), (603, 14834), (620, 14951), (629, 15026), (631, 15044), (632, 15050), (634, 15065), (635, 15077), (636, 15089), (637, 15092), (639, 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), (61, 12402), (77, 12474), (78, 12486), (79, 12495), (90, 12567), (103, 12642), (122, 12726), (124, 12735), (127, 12756), (133, 12795), (144, 12873), (157, 12951), (170, 13041), (180, 13116), (194, 13209), (196, 13218), (198, 13230), (199, 13239), (248, 13500), (254, 13515), (263, 13548), (283, 13635), (289, 13659), (304,

13743), (314, 13827), (317, 13839), (321, 13860), (391, 14016), (407, 14097), (416, 14145), (419, 14163), (422, 14184), (426, 14220), (431, 14271), (442, 14328), (451, 14406), (453, 14415), (472, 14493), (481, 14550), (491, 14604), (522, 14844), (535, 14919), (548, 15030), (560, 15249), (562, 15261), (577, 15447), (578, 15456), (590, 15528), (598, 15558), (603, 15579), (620, 15699), (629, 15771), (631, 15789), (632, 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), (34, 11667), (53, 11781), (61, 11823), (66, 11844), (69, 11853), (90, 11988), (95, 12009), (124, 12156), (130, 12198), (133, 12216), (134, 12219), (135, 12234), (136, 12240), (137, 12252), (157, 12372), (167, 12438), (177, 12504), (179, 12528), (190, 12609), (215, 12732), (217, 12753), (227, 12816), (233, 12843), (236, 12852), (244, 12903), (259, 12954), (275, 13011), (283, 13056), (300, 13143), (317, 13260), (320, 13275), (331, 13365), (335, 13422), (336, 13425), (358, 13575), (361, 13593), (416, 13884), (421, 13914), (449, 14136), (456, 14160), (459, 14175), (463, 14196), (477, 14250), (488, 14310), (496, 14400), (501, 14433), (504, 14448), (513, 14496), (517, 14553), (521, 14586), (564, 15018), (571, 15108), (572, 15135), (577, 15177), (578, 15186), (590, 15255), (597, 15282), (608, 15339), (617, 15399), (621, 15417), (623, 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), (61, 12416), (78, 12500), (79, 12509), (89, 12569), (90, 12581), (103, 12656), (113, 12698), (122, 12740), (124, 12749), (127, 12770), (133, 12809), (144, 12887), (157, 12965), (180, 13130), (194, 13223), (196, 13232), (198, 13244), (199, 13253), (243, 13490), (248, 13514), (254, 13529), (263, 13562), (283, 13649), (289, 13673), (304, 13757), (314, 13841), (317, 13853), (330, 13955), (391, 14030), (407, 14111), (416, 14159), (419, 14177), (421, 14189), (422, 14198), (426, 14234), (431, 14285), (442, 14342), (451, 14420), (453, 14429), (472, 14507), (475, 14522), (481, 14564), (491, 14618), (522, 14858), (535, 14933), (548, 15044), (560, 15263), (562, 15275), (569, 15377), (577, 15458), (578, 15467), (590, 15539), (598, 15569), (603, 15590), (620, 15710), (629, 15782), (631, 15800), (632, 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), (39, 11561), (58, 11669), (61, 11690), (70, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (133, 12083), (144, 12161), (157, 12239), (161, 12263), (194, 12497), (212, 12578), (219, 12638), (228, 12695), (238, 12731), (243, 12764), (248, 12788), (268, 12854), (271, 12863), (283, 12923), (304, 13031), (309, 13076), (331, 13232), (341, 13343), (342, 13352), (343, 13364), (352, 13415), (356, 13433), (361, 13460), (367, 13490), (383, 13583), (391, 13622), (422, 13790), (428, 13844), (431, 13877), (441, 13922), (451, 14003), (452, 14006), (472, 14090), (474, 14096), (475, 14105), (481, 14147), (490, 14183), (491, 14201), (493, 14240), (502, 14300), (522, 14441), (533, 14501), (535, 14516), (562, 14858), (577, 15047), (578, 15056), (588, 15119), (632, 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), (34, 11667), (53, 11781), (61, 11823), (66, 11844), (69, 11853), (90, 11988), (95, 12009), (124, 12156), (130, 12198), (133, 12216), (134, 12219), (135, 12234), (136, 12240), (137, 12252), (157, 12372), (167, 12438), (177, 12504), (179, 12528), (190, 12609), (215, 12732), (217, 12753), (227, 12816), (233, 12843), (236, 12852), (244, 12903), (259, 12954), (275, 13011), (283, 13056), (300, 13143), (317, 13260), (320, 13275), (331, 13365), (335, 13422), (336, 13425), (358, 13575), (361, 13593), (416, 13884), (421, 13914), (449, 14136), (456, 14160), (459, 14175), (463, 14196), (477, 14250), (488, 14310), (496, 14400), (501, 14433), (504, 14448), (513, 14496), (517, 14553), (521, 14586), (564, 15018), (571, 15108), (572, 15135), (577,

15177), (578, 15186), (590, 15255), (597, 15282), (608, 15339), (617, 15399), (621, 15417), (623, 15426),

Gene: Thyatira_19 Start: 12136, Stop: 16245, Start Num: 13
Candidate Starts for Thyatira_19:
(Start: 13 @12136 has 30 MA's), (42, 12394), (58, 12478), (74, 12544), (79, 12592), (89, 12652), (90, 12664), (95, 12685), (103, 12739), (110, 12769), (124, 12832), (127, 12853), (135, 12910), (144, 12970), (157, 13048), (161, 13072), (167, 13114), (172, 13147), (194, 13306), (198, 13327), (217, 13405), (227, 13468), (229, 13483), (230, 13486), (233, 13495), (235, 13501), (237, 13513), (246, 13567), (277, 13669), (283, 13708), (309, 13861), (315, 13903), (320, 13927), (331, 14017), (333, 14050), (349, 14191), (352, 14200), (356, 14218), (361, 14245), (374, 14323), (391, 14407), (415, 14530), (423, 14596), (439, 14698), (451, 14791), (453, 14800), (458, 14821), (466, 14854), (477, 14905), (478, 14926), (482, 14941), (483, 14947), (493, 15031), (497, 15061), (499, 15079), (507, 15118), (515, 15178), (516, 15211), (520, 15232), (526, 15256), (530, 15289), (543, 15373), (550, 15445), (569, 15754), (573, 15808), (575, 15823), (577, 15835), (582, 15865), (614, 16051), (620, 16075), (622, 16087), (633, 16174), (635, 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), (35, 11990), (40, 12017), (44, 12044), (47, 12062), (51, 12080), (53, 12104), (55, 12110), (60, 12137), (62, 12143), (72, 12179), (75, 12188), (77, 12212), (88, 12284), (91, 12302), (92, 12305), (118, 12434), (138, 12551), (154, 12647), (160, 12686), (166, 12716), (176, 12776), (201, 12959), (202, 12965), (203, 12968), (214, 13022), (218, 13052), (228, 13112), (232, 13124), (234, 13130), (237, 13145), (241, 13166), (244, 13184), (281, 13322), (283, 13334), (288, 13355), (296, 13394), (316, 13448), (317, 13454), (335, 13616), (342, 13679), (356, 13760), (359, 13775), (367, 13817), (375, 13868), (378, 13889), (385, 13919), (387, 13925), (391, 13949), (403, 14000), (412, 14060), (422, 14117), (426, 14153), (428, 14171), (431, 14204), (451, 14345), (452, 14348), (472, 14432), (477, 14459), (491, 14543), (522, 14783), (535, 14858), (561, 15191), (569, 15293), (570, 15302), (577, 15374), (590, 15458), (598, 15488), (603, 15509), (620, 15626), (629, 15701), (634, 15740), (635, 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), (35, 11249), (44, 11303), (47, 11321), (51, 11339), (55, 11369), (60, 11396), (62, 11402), (75, 11447), (88, 11543), (91, 11561), (92, 11564), (116, 11678), (118, 11693), (138, 11810), (141, 11825), (154, 11906), (165, 11966), (166, 11975), (176, 12035), (201, 12218), (202, 12224), (214, 12281), (228, 12371), (232, 12383), (234, 12389), (237, 12404), (241, 12425), (244, 12443), (266, 12518), (276, 12551), (281, 12581), (283, 12593), (288, 12614), (296, 12653), (313, 12698), (317, 12713), (335, 12875), (342, 12938), (345, 12965), (360, 13037), (367, 13076), (375, 13127), (378, 13148), (385, 13178), (387, 13184), (391, 13208), (403, 13259), (419, 13355), (422, 13376), (426, 13412), (431, 13463), (451, 13604), (452, 13607), (472, 13691), (477, 13718), (491, 13802), (522, 14042), (535, 14117), (569, 14555), (570, 14564), (577, 14636), (578, 14645), (590, 14720), (598, 14750), (603, 14771), (620, 14888), (629, 14963), (634, 15002), (635, 15014),

Gene: TinaBug_16 Start: 11459, Stop: 15472, Start Num: 14
Candidate Starts for TinaBug_16:
(Start: 14 @11459 has 171 MA's), (34, 11660), (53, 11774), (61, 11816), (69, 11846), (90, 11981), (93, 11993), (95, 12002), (130, 12191), (133, 12209), (134, 12212), (136, 12233), (137, 12245), (149, 12317), (157, 12365), (177, 12497), (179, 12521), (190, 12602), (215, 12725), (227, 12809), (236, 12845), (243, 12890), (244, 12896), (275, 13004), (279, 13028), (283, 13049), (320, 13268), (336, 13418), (345, 13505), (366, 13613), (391, 13748), (412, 13859), (416, 13877), (421, 13907), (449, 14129), (456, 14153), (459, 14168), (463, 14189), (472, 14216), (477, 14243), (488, 14303), (496,

14393), (501, 14426), (513, 14489), (517, 14546), (521, 14579), (524, 14588), (571, 15092), (572, 15119), (575, 15149), (577, 15161), (578, 15170), (590, 15239), (608, 15320), (617, 15380), (621, 15398), (623, 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), (40, 11318), (43, 11342), (49, 11372), (52, 11393), (53, 11405), (60, 11438), (67, 11465), (81, 11552), (88, 11585), (91, 11603), (92, 11606), (98, 11648), (110, 11696), (134, 11822), (138, 11864), (141, 11879), (147, 11915), (158, 11987), (176, 12089), (201, 12272), (211, 12314), (212, 12317), (213, 12323), (214, 12335), (218, 12365), (228, 12425), (234, 12443), (237, 12458), (240, 12476), (241, 12479), (247, 12512), (274, 12593), (277, 12608), (283, 12647), (288, 12668), (314, 12845), (317, 12857), (319, 12866), (322, 12917), (330, 12959), (342, 13082), (344, 13106), (356, 13163), (359, 13178), (360, 13181), (371, 13247), (373, 13256), (377, 13280), (387, 13328), (403, 13403), (406, 13421), (416, 13481), (420, 13508), (422, 13520), (426, 13556), (428, 13574), (434, 13619), (438, 13649), (443, 13667), (451, 13748), (452, 13751), (472, 13835), (475, 13850), (480, 13889), (481, 13892), (493, 13985), (503, 14051), (522, 14186), (558, 14537), (569, 14708), (577, 14789), (590, 14873), (620, 15041), (629, 15113), (631, 15131), (632, 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), (61, 12387), (78, 12471), (79, 12480), (89, 12540), (90, 12552), (103, 12627), (113, 12669), (122, 12711), (124, 12720), (127, 12741), (133, 12780), (144, 12858), (157, 12936), (180, 13101), (194, 13194), (198, 13215), (199, 13224), (243, 13461), (248, 13485), (254, 13500), (263, 13533), (283, 13620), (300, 13707), (304, 13728), (314, 13812), (317, 13824), (321, 13845), (391, 14001), (407, 14082), (419, 14148), (422, 14169), (426, 14205), (431, 14256), (437, 14274), (442, 14313), (451, 14391), (472, 14478), (475, 14493), (481, 14535), (491, 14589), (522, 14829), (535, 14904), (548, 15015), (550, 15036), (551, 15057), (558, 15177), (569, 15348), (577, 15429), (578, 15438), (590, 15510), (598, 15540), (603, 15561), (620, 15681), (629, 15753), (631, 15771), (632, 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), (61, 12448), (78, 12532), (79, 12541), (90, 12613), (103, 12688), (122, 12772), (124, 12781), (127, 12802), (133, 12841), (144, 12919), (157, 12997), (170, 13087), (180, 13162), (194, 13255), (196, 13264), (198, 13276), (199, 13285), (233, 13468), (243, 13522), (254, 13561), (263, 13594), (283, 13681), (289, 13705), (304, 13789), (314, 13873), (317, 13885), (321, 13906), (391, 14062), (407, 14143), (416, 14191), (419, 14209), (422, 14230), (426, 14266), (431, 14317), (442, 14374), (451, 14452), (453, 14461), (472, 14539), (481, 14596), (491, 14650), (522, 14890), (535, 14965), (548, 15076), (560, 15295), (562, 15307), (569, 15409), (577, 15490), (578, 15499), (598, 15601), (603, 15622), (620, 15742), (629, 15814), (631, 15832), (632, 15838),

Gene: TomBrady_16 Start: 11465, Stop: 15478, Start Num: 14
Candidate Starts for TomBrady_16:
(Start: 14 @11465 has 171 MA's), (34, 11666), (53, 11780), (61, 11822), (69, 11852), (90, 11987), (93, 11999), (95, 12008), (130, 12197), (133, 12215), (134, 12218), (136, 12239), (137, 12251), (149, 12323), (157, 12371), (177, 12503), (179, 12527), (190, 12608), (215, 12731), (227, 12815), (236, 12851), (243, 12896), (244, 12902), (275, 13010), (279, 13034), (283, 13055), (320, 13274), (336, 13424), (345, 13511), (366, 13619), (391, 13754), (412, 13865), (416, 13883), (421, 13913), (449, 14135), (456, 14159), (459, 14174), (463, 14195), (472, 14222), (477, 14249), (488, 14309), (496, 14399), (501, 14432), (513, 14495), (517, 14552), (521, 14585), (524, 14594), (571, 15098), (572, 15125), (575, 15155), (577, 15167), (578, 15176), (590, 15245), (608, 15326), (617, 15386), (621,

15404), (623, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (39, 11561), (58, 11669), (61, 11690), (70, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (133, 12083), (144, 12161), (157, 12239), (161, 12263), (194, 12497), (212, 12578), (219, 12638), (228, 12695), (238, 12731), (243, 12764), (248, 12788), (268, 12854), (271, 12863), (283, 12923), (304, 13031), (309, 13076), (331, 13232), (341, 13343), (342, 13352), (343, 13364), (352, 13415), (356, 13433), (361, 13460), (367, 13490), (383, 13583), (391, 13622), (422, 13790), (428, 13844), (431, 13877), (441, 13922), (451, 14003), (452, 14006), (472, 14090), (474, 14096), (475, 14105), (481, 14147), (490, 14183), (491, 14201), (493, 14240), (502, 14300), (522, 14441), (533, 14501), (535, 14516), (562, 14858), (577, 15047), (578, 15056), (588, 15119), (632, 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), (61, 12410), (79, 12503), (89, 12563), (90, 12575), (103, 12650), (115, 12701), (124, 12743), (127, 12764), (133, 12803), (144, 12881), (157, 12959), (161, 12983), (180, 13124), (194, 13217), (196, 13226), (198, 13238), (199, 13247), (243, 13484), (248, 13508), (254, 13523), (263, 13556), (283, 13643), (289, 13667), (304, 13751), (314, 13835), (317, 13847), (321, 13868), (330, 13949), (391, 14024), (407, 14105), (416, 14153), (419, 14171), (421, 14183), (422, 14192), (426, 14228), (431, 14279), (442, 14336), (451, 14414), (453, 14423), (472, 14501), (475, 14516), (481, 14558), (491, 14612), (522, 14852), (535, 14927), (548, 15038), (560, 15257), (562, 15269), (569, 15371), (577, 15452), (578, 15461), (590, 15533), (598, 15563), (603, 15584), (620, 15704), (629, 15776), (631, 15794), (632, 15800),

Gene: TribleTrouble_19 Start: 12006, Stop: 16166, Start Num: 14
Candidate Starts for TribleTrouble_19:
(Start: 14 @12006 has 171 MA's), (23, 12075), (24, 12096), (26, 12102), (29, 12162), (54, 12327), (58, 12345), (61, 12366), (66, 12387), (74, 12411), (78, 12450), (86, 12513), (89, 12519), (90, 12531), (103, 12606), (124, 12699), (127, 12720), (133, 12759), (144, 12837), (152, 12882), (157, 12915), (161, 12939), (167, 12981), (186, 13113), (194, 13173), (198, 13194), (199, 13203), (217, 13296), (228, 13371), (239, 13416), (243, 13440), (247, 13461), (256, 13485), (262, 13509), (276, 13557), (283, 13599), (308, 13755), (314, 13812), (335, 13986), (339, 14016), (342, 14049), (367, 14187), (371, 14214), (377, 14247), (389, 14301), (391, 14319), (399, 14349), (412, 14430), (419, 14466), (428, 14541), (431, 14574), (439, 14619), (443, 14634), (451, 14715), (452, 14718), (469, 14787), (472, 14802), (474, 14808), (475, 14817), (491, 14913), (493, 14952), (506, 15030), (519, 15129), (522, 15153), (535, 15228), (566, 15654), (569, 15684), (570, 15693), (571, 15696), (578, 15774), (603, 15900), (611, 15960), (613, 15978), (627, 16056), (632, 16092), (634, 16107), (635, 16119), (640, 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), (39, 11561), (58, 11669), (61, 11690), (70, 11723), (90, 11855), (94, 11870), (95, 11876), (103, 11930), (110, 11960), (124, 12023), (127, 12044), (133, 12083), (144, 12161), (157, 12239), (161, 12263), (194, 12497), (212, 12578), (219, 12638), (228, 12695), (238, 12731), (243, 12764), (248, 12788), (268, 12854), (271, 12863), (283, 12923), (304, 13031), (309, 13076), (331, 13232), (341, 13343), (342, 13352), (343, 13364), (352, 13415), (356, 13433), (361, 13460), (367, 13490), (383, 13583), (391, 13622), (422, 13790), (428, 13844), (431, 13877), (441, 13922), (451, 14003), (452, 14006), (472, 14090), (474, 14096), (475, 14105), (481, 14147), (490, 14183), (491, 14201), (493, 14240), (502, 14300), (522, 14441), (533, 14501), (535, 14516), (562, 14858), (577, 15047), (578, 15056), (588, 15119), (632, 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), (61, 12436), (77, 12508), (78, 12520), (79, 12529), (90, 12601), (103, 12676), (122, 12760), (124, 12769), (127, 12790), (133, 12829), (144, 12907), (157, 12985), (170, 13075), (180, 13150), (194, 13243), (196, 13252), (198, 13264), (199, 13273), (248, 13534), (254, 13549), (263, 13582), (283, 13669), (289, 13693), (304, 13777), (314, 13861), (317, 13873), (321, 13894), (391, 14050), (407, 14131), (416, 14179), (419, 14197), (422, 14218), (426, 14254), (431, 14305), (442, 14362), (451, 14440), (453, 14449), (472, 14527), (481, 14584), (491, 14638), (522, 14878), (535, 14953), (548, 15064), (560, 15283), (562, 15295), (577, 15481), (578, 15490), (590, 15562), (598, 15592), (603, 15613), (620, 15733), (629, 15805), (631, 15823), (632, 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), (39, 12347), (57, 12449), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (137, 12905), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (475, 14582), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15518), (578, 15527), (590, 15599), (598, 15629), (603, 15650), (620, 15770), (629, 15842), (631, 15860), (632, 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), (35, 11321), (44, 11375), (47, 11393), (51, 11411), (53, 11435), (55, 11441), (60, 11468), (62, 11474), (64, 11486), (75, 11519), (88, 11615), (91, 11633), (92, 11636), (116, 11750), (118, 11765), (138, 11882), (154, 11978), (160, 12017), (165, 12038), (166, 12047), (176, 12107), (201, 12290), (202, 12296), (203, 12299), (214, 12353), (218, 12383), (228, 12443), (232, 12455), (234, 12461), (237, 12476), (241, 12497), (244, 12515), (281, 12653), (283, 12665), (288, 12686), (296, 12725), (316, 12779), (317, 12785), (330, 12887), (335, 12947), (342, 13010), (356, 13091), (359, 13106), (360, 13109), (367, 13148), (373, 13184), (375, 13199), (376, 13205), (381, 13232), (387, 13256), (403, 13331), (412, 13391), (422, 13448), (426, 13484), (431, 13535), (451, 13676), (452, 13679), (472, 13763), (477, 13790), (491, 13874), (493, 13913), (522, 14114), (535, 14189), (556, 14408), (561, 14522), (569, 14624), (570, 14633), (577, 14705), (590, 14789), (598, 14819), (603, 14840), (620, 14957), (629, 15032), (634, 15071), (635, 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), (61, 12387), (78, 12471), (79, 12480), (89, 12540), (90, 12552), (103, 12627), (115, 12678), (124, 12720), (127, 12741), (133, 12780), (144, 12858), (157, 12936), (161, 12960), (180, 13101), (194, 13194), (198, 13215), (199, 13224), (243, 13461), (248, 13485), (254, 13500), (263, 13533), (283, 13620), (300, 13707), (304, 13728), (314, 13812), (317, 13824), (321, 13845), (391, 14001), (407, 14082), (419, 14148), (422, 14169), (426, 14205), (431, 14256), (437, 14274), (442, 14313), (451, 14391), (472, 14478), (475, 14493), (481, 14535), (491, 14589), (522, 14829), (535, 14904), (548, 15015), (550, 15036), (551, 15057), (558, 15177), (569, 15351), (577, 15432), (578, 15441), (590, 15513), (598, 15543), (603, 15564), (620, 15684), (629, 15756), (631, 15774), (632, 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), (43, 11305), (44, 11308), (67, 11428), (81, 11515), (88, 11548), (99, 11623), (100, 11626), (116, 11692), (134, 11794), (138, 11836), (141, 11851), (142, 11860), (147, 11887), (153, 11917), (157, 11950), (165, 11992), (176, 12061), (201, 12247), (202, 12253), (211, 12289), (214, 12310), (216, 12322), (218, 12340), (228, 12400), (232, 12412), (234, 12418), (237, 12433), (240, 12451), (241, 12454), (247, 12487), (277, 12583), (283, 12622), (288, 12643), (295, 12673), (299, 12706), (311, 12790), (314, 12820), (317, 12832), (330, 12934), (337, 13012), (342, 13057), (344, 13081), (355, 13135), (356, 13138), (359, 13153), (360, 13156), (367, 13195), (371, 13222), (375, 13246), (376, 13252), (381, 13279), (391, 13327), (403, 13378), (406, 13396), (411, 13432), (412, 13438), (416, 13456), (420, 13483), (422, 13495), (428, 13549), (431, 13582), (443, 13642), (451, 13723), (452, 13726), (472, 13810), (475, 13825), (481, 13867), (493, 13960), (503, 14026), (522, 14161), (557, 14509), (570, 14701), (577, 14773), (578, 14782), (582, 14803), (585, 14845), (620, 15040), (622, 15052), (629, 15112), (632, 15136), (636, 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), (61, 12476), (77, 12548), (78, 12560), (79, 12569), (90, 12641), (103, 12716), (122, 12800), (124, 12809), (127, 12830), (133, 12869), (144, 12947), (157, 13025), (170, 13115), (180, 13190), (194, 13283), (196, 13292), (198, 13304), (199, 13313), (243, 13550), (254, 13589), (263, 13622), (283, 13709), (289, 13733), (304, 13817), (314, 13901), (317, 13913), (321, 13934), (391, 14090), (407, 14171), (416, 14219), (419, 14237), (422, 14258), (426, 14294), (431, 14345), (442, 14402), (451, 14480), (453, 14489), (472, 14567), (481, 14624), (491, 14678), (522, 14918), (535, 14993), (548, 15104), (560, 15323), (562, 15335), (577, 15521), (578, 15530), (590, 15602), (598, 15632), (603, 15653), (620, 15773), (629, 15845), (631, 15863), (632, 15869),

Gene: ViviJ_18 Start: 11997, Stop: 16103, Start Num: 13
Candidate Starts for ViviJ_18:
(Start: 13 @11997 has 30 MA's), (24, 12090), (30, 12168), (32, 12192), (42, 12252), (58, 12336), (59, 12348), (79, 12450), (89, 12510), (90, 12522), (95, 12543), (103, 12597), (114, 12645), (124, 12690), (127, 12711), (144, 12828), (157, 12906), (161, 12930), (170, 12996), (180, 13071), (194, 13164), (199, 13194), (230, 13368), (233, 13377), (239, 13407), (243, 13431), (247, 13452), (265, 13512), (283, 13590), (285, 13599), (300, 13677), (309, 13743), (315, 13785), (317, 13794), (324, 13878), (331, 13899), (333, 13932), (340, 13998), (342, 14019), (349, 14073), (352, 14082), (356, 14100), (360, 14118), (361, 14127), (367, 14157), (373, 14193), (382, 14247), (390, 14283), (391, 14289), (393, 14307), (415, 14412), (423, 14478), (451, 14673), (458, 14703), (466, 14736), (477, 14787), (478, 14808), (482, 14823), (483, 14829), (493, 14913), (499, 14961), (507, 15000), (515, 15060), (516, 15093), (520, 15114), (526, 15138), (530, 15168), (543, 15234), (550, 15306), (569, 15621), (570, 15630), (571, 15633), (573, 15675), (577, 15702), (582, 15732), (590, 15783), (596, 15801), (608, 15867), (614, 15915), (620, 15939), (622, 15951), (633, 16032), (635, 16056), (640, 16095),

Gene: Waterfoul_19 Start: 12158, Stop: 16267, Start Num: 13
Candidate Starts for Waterfoul_19:
(Start: 13 @12158 has 30 MA's), (42, 12416), (58, 12500), (74, 12566), (79, 12614), (89, 12674), (90, 12686), (95, 12707), (103, 12761), (110, 12791), (124, 12854), (127, 12875), (135, 12932), (144, 12992), (157, 13070), (161, 13094), (167, 13136), (172, 13169), (194, 13328), (198, 13349), (217, 13427), (227, 13490), (229, 13505), (230, 13508), (233, 13517), (235, 13523), (237, 13535), (246, 13589), (277, 13691), (283, 13730), (309, 13883), (315, 13925), (320, 13949), (331, 14039), (333, 14072), (349, 14213), (352, 14222), (356, 14240), (361, 14267), (374, 14345), (391, 14429), (415, 14552), (423, 14618), (439, 14720), (451, 14813), (453, 14822), (458, 14843), (466, 14876), (477, 14927), (478, 14948), (482, 14963), (483, 14969), (493, 15053), (497, 15083), (499, 15101), (507, 15140), (515, 15200), (516, 15233), (520, 15254), (526, 15278), (530, 15311), (543, 15395), (550, 15467), (569, 15776), (573, 15830), (575, 15845), (577, 15857), (582, 15887), (614, 16073), (620, 16097), (622, 16109), (633, 16196), (635, 16220),

Gene: Wendigo_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Wendigo_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 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), (35, 11445), (44, 11499), (47, 11517), (53, 11559), (60, 11592), (62, 11598), (78, 11679), (88, 11739), (91, 11757), (92, 11760), (116, 11874), (118, 11889), (138, 12006), (143, 12033), (154, 12102), (165, 12162), (166, 12171), (167, 12183), (176, 12231), (201, 12414), (202, 12420), (203, 12423), (228, 12567), (232, 12579), (234, 12585), (237, 12600), (241, 12621), (244, 12639), (281, 12777), (283, 12789), (288, 12810), (296, 12849), (316, 12903), (317, 12909), (330, 13011), (335, 13071), (342, 13134), (355, 13212), (356, 13215), (359, 13230), (367, 13272), (371, 13299), (373, 13308), (375, 13323), (376, 13329), (381, 13356), (387, 13380), (389, 13386), (399, 13434), (403, 13455), (416, 13533), (419, 13551), (422, 13572), (426, 13608), (431, 13659), (451, 13800), (453, 13809), (472, 13887), (491, 13998), (492, 14010), (522, 14238), (535, 14313), (570, 14757), (577, 14829), (578, 14838), (590, 14913), (598, 14943), (603, 14964), (620, 15081), (629, 15156), (634, 15195), (635, 15207), (641, 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), (47, 12063), (49, 12072), (62, 12144), (72, 12180), (81, 12252), (83, 12258), (85, 12273), (88, 12285), (91, 12303), (98, 12348), (107, 12384), (111, 12399), (114, 12414), (116, 12420), (134, 12522), (138, 12564), (141, 12579), (147, 12615), (157, 12678), (160, 12699), (172, 12771), (176, 12789), (195, 12930), (201, 12972), (208, 13002), (209, 13005), (211, 13014), (213, 13023), (218, 13065), (231, 13134), (232, 13137), (234, 13143), (237, 13158), (241, 13179), (242, 13188), (270, 13284), (283, 13347), (289, 13371), (292, 13383), (293, 13386), (301, 13443), (307, 13476), (311, 13515), (317, 13557), (327, 13653), (331, 13662), (336, 13722), (337, 13737), (341, 13773), (354, 13857), (362, 13902), (366, 13917), (370, 13944), (387, 14028), (391, 14052), (403, 14103), (404, 14109), (423, 14241), (446, 14373), (456, 14457), (459, 14472), (476, 14538), (489, 14607), (494, 14688), (496, 14697), (513, 14790), (517, 14847), (522, 14880), (558, 15237), (571, 15426), (572, 15453), (577, 15495), (584, 15573), (610, 15732), (612, 15750),

(615, 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), (61, 12409), (77, 12481), (78, 12493), (79, 12502), (90, 12574), (103, 12649), (122, 12733), (124, 12742), (127, 12763), (133, 12802), (144, 12880), (157, 12958), (170, 13048), (180, 13123), (194, 13216), (196, 13225), (198, 13237), (199, 13246), (243, 13483), (254, 13522), (263, 13555), (283, 13642), (289, 13666), (304, 13750), (314, 13834), (317, 13846), (321, 13867), (391, 14023), (407, 14104), (416, 14152), (419, 14170), (422, 14191), (426, 14227), (431, 14278), (442, 14335), (451, 14413), (453, 14422), (472, 14500), (475, 14515), (481, 14557), (491, 14611), (522, 14851), (535, 14926), (548, 15037), (560, 15256), (562, 15268), (577, 15454), (578, 15463), (598, 15565), (603, 15586), (620, 15706), (629, 15778), (631, 15796), (632, 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), (45, 11458), (50, 11479), (55, 11515), (62, 11548), (63, 11551), (64, 11560), (72, 11584), (85, 11677), (88, 11689), (92, 11710), (132, 11926), (138, 11965), (141, 11980), (147, 12016), (156, 12076), (157, 12079), (165, 12121), (176, 12190), (201, 12376), (202, 12382), (203, 12385), (204, 12391), (211, 12418), (213, 12427), (214, 12439), (218, 12469), (228, 12529), (232, 12541), (234, 12547), (237, 12562), (240, 12580), (241, 12583), (244, 12601), (266, 12676), (281, 12739), (283, 12751), (288, 12772), (296, 12811), (313, 12856), (317, 12871), (335, 13033), (342, 13096), (345, 13123), (360, 13195), (367, 13234), (375, 13285), (377, 13294), (378, 13306), (385, 13336), (387, 13342), (391, 13366), (412, 13477), (416, 13495), (422, 13534), (431, 13621), (434, 13633), (451, 13762), (452, 13765), (472, 13849), (492, 13972), (522, 14200), (533, 14260), (535, 14275), (559, 14590), (570, 14722), (572, 14752), (576, 14791), (577, 14794), (580, 14812), (590, 14866), (598, 14896), (603, 14917), (620, 15028), (632, 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), (40, 11241), (43, 11265), (49, 11295), (52, 11316), (53, 11328), (67, 11388), (81, 11475), (88, 11508), (91, 11526), (92, 11529), (105, 11601), (134, 11745), (138, 11787), (141, 11802), (147, 11838), (158, 11910), (176, 12012), (201, 12195), (207, 12222), (212, 12240), (213, 12246), (218, 12288), (232, 12360), (234, 12366), (237, 12381), (241, 12402), (244, 12420), (247, 12435), (261, 12483), (274, 12516), (277, 12531), (283, 12570), (288, 12591), (295, 12621), (319, 12789), (322, 12840), (342, 13005), (344, 13029), (356, 13086), (365, 13137), (371, 13170), (373, 13179), (387, 13251), (403, 13326), (406, 13344), (412, 13386), (416, 13404), (420, 13431), (422, 13443), (438, 13572), (443, 13590), (451, 13671), (452, 13674), (472, 13758), (480, 13812), (481, 13815), (493, 13908), (503, 13974), (522, 14109), (542, 14235), (569, 14631), (570, 14640), (577, 14712), (590, 14796), (620, 14964), (629, 15036), (632, 15060), (636, 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), (61, 12437), (77, 12509), (78, 12521), (79, 12530), (90, 12602), (103, 12677), (122, 12761), (124, 12770), (127, 12791), (133, 12830), (144, 12908), (157, 12986), (170, 13076), (180, 13151), (194, 13244), (196, 13253), (198, 13265), (199, 13274), (248, 13535), (254, 13550), (263, 13583), (283, 13670), (289, 13694), (304, 13778), (314, 13862), (317, 13874), (321, 13895), (391, 14051), (407, 14132), (416, 14180), (419, 14198), (422, 14219), (426, 14255), (431, 14306), (442, 14363), (451, 14441), (453, 14450), (472, 14528), (481, 14585), (491, 14639), (522, 14879), (535, 14954), (548, 15065), (560, 15284), (562, 15296), (577, 15485), (578, 15494), (590, 15566), (598, 15596), (603, 15617), (620, 15737), (629, 15809), (631, 15827), (632, 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), (61, 12417), (77, 12489), (78, 12501), (79, 12510), (90, 12582), (103, 12657), (122, 12741), (124, 12750), (127, 12771), (133, 12810), (144, 12888), (157, 12966), (170, 13056), (180, 13131), (194, 13224), (196, 13233), (198, 13245), (199, 13254), (243, 13491), (254, 13530), (263, 13563), (283, 13650), (289, 13674), (304, 13758), (314, 13842), (317, 13854), (321, 13875), (391, 14031), (416, 14160), (419, 14178), (422, 14199), (426, 14235), (431, 14286), (442, 14343), (451, 14421), (453, 14430), (472, 14508), (475, 14523), (481, 14565), (491, 14619), (522, 14859), (535, 14934), (548, 15045), (560, 15264), (562, 15276), (577, 15459), (578, 15468), (590, 15540), (598, 15570), (603, 15591), (620, 15711), (629, 15783), (631, 15801), (632, 15807),

Gene: ZoMa_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for ZoMa_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),

Gene: ZoeJ_17 Start: 10077, Stop: 13724, Start Num: 13
Candidate Starts for ZoeJ_17:
(Start: 13 @10077 has 30 MA's), (23, 10149), (65, 10383), (70, 10398), (89, 10515), (90, 10527), (103, 10602), (124, 10695), (144, 10833), (145, 10836), (151, 10875), (157, 10911), (161, 10935), (164, 10944), (165, 10956), (168, 10980), (170, 11001), (175, 11025), (176, 11031), (179, 11067), (180, 11076), (186, 11109), (188, 11121), (190, 11148), (227, 11331), (228, 11343), (230, 11349), (239, 11388), (243, 11412), (282, 11460), (291, 11472), (302, 11505), (332, 11736), (343, 11781), (357, 11811), (371, 11880), (379, 11907), (388, 11940), (413, 12027), (419, 12060), (422, 12081), (424, 12105), (429, 12135), (481, 12378), (493, 12471), (506, 12549), (522, 12672), (539, 12777), (565, 13188), (569, 13218), (570, 13227), (572, 13257), (620, 13554), (622, 13566), (632, 13647),

Gene: Zombie_16 Start: 11464, Stop: 15477, Start Num: 14
Candidate Starts for Zombie_16:
(Start: 14 @11464 has 171 MA's), (34, 11665), (53, 11779), (61, 11821), (69, 11851), (90, 11986), (93, 11998), (95, 12007), (130, 12196), (133, 12214), (134, 12217), (136, 12238), (137, 12250), (149, 12322), (157, 12370), (177, 12502), (179, 12526), (190, 12607), (215, 12730), (227, 12814), (236, 12850), (243, 12895), (244, 12901), (275, 13009), (279, 13033), (283, 13054), (320, 13273), (336, 13423), (345, 13510), (366, 13618), (391, 13753), (412, 13864), (416, 13882), (421, 13912), (449, 14134), (456, 14158), (459, 14173), (463, 14194), (472, 14221), (477, 14248), (488, 14308), (496, 14398), (501, 14431), (513, 14494), (517, 14551), (521, 14584), (524, 14593), (571, 15097), (572, 15124), (575, 15154), (577, 15166), (578, 15175), (590, 15244), (608, 15325), (617, 15385), (621, 15403), (623, 15412),