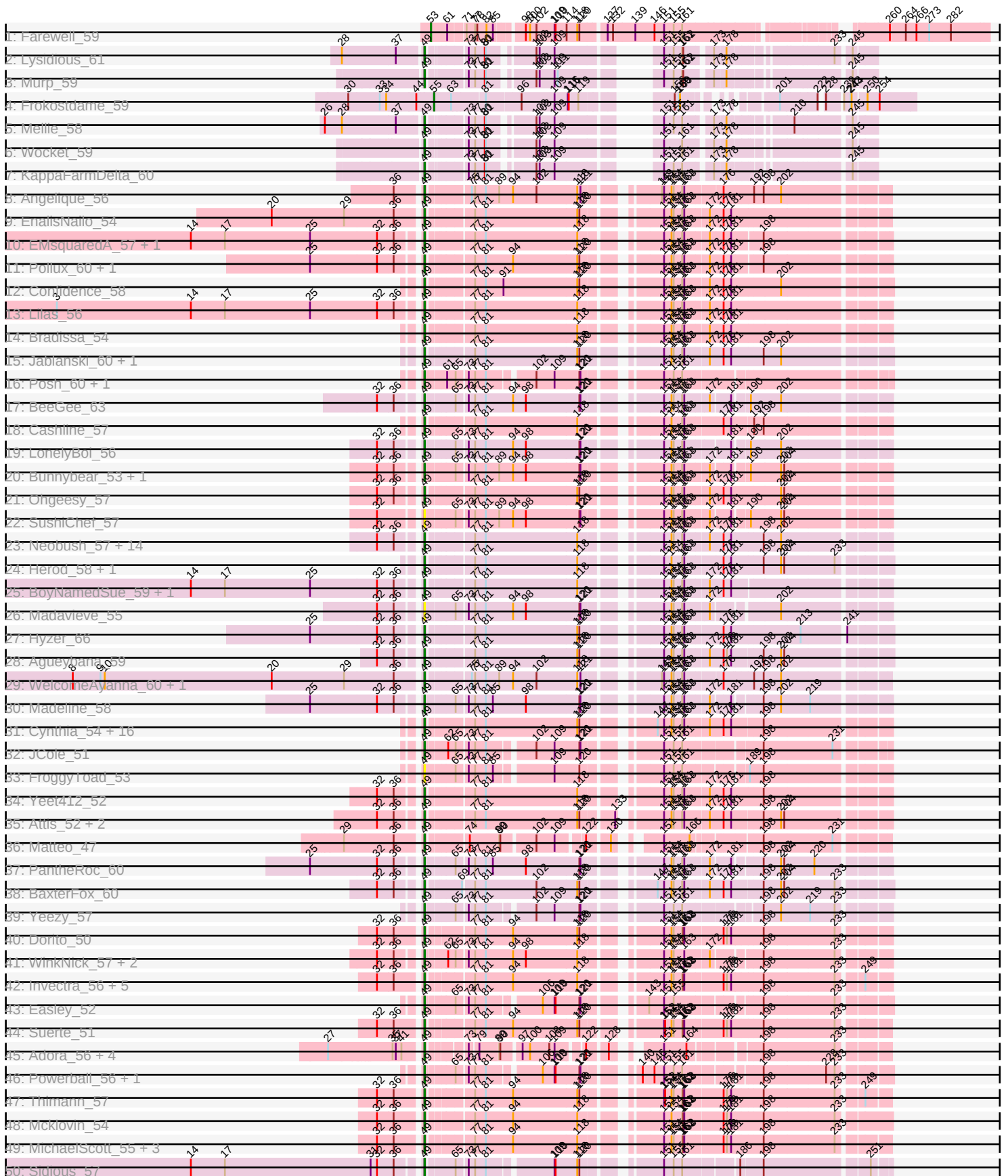
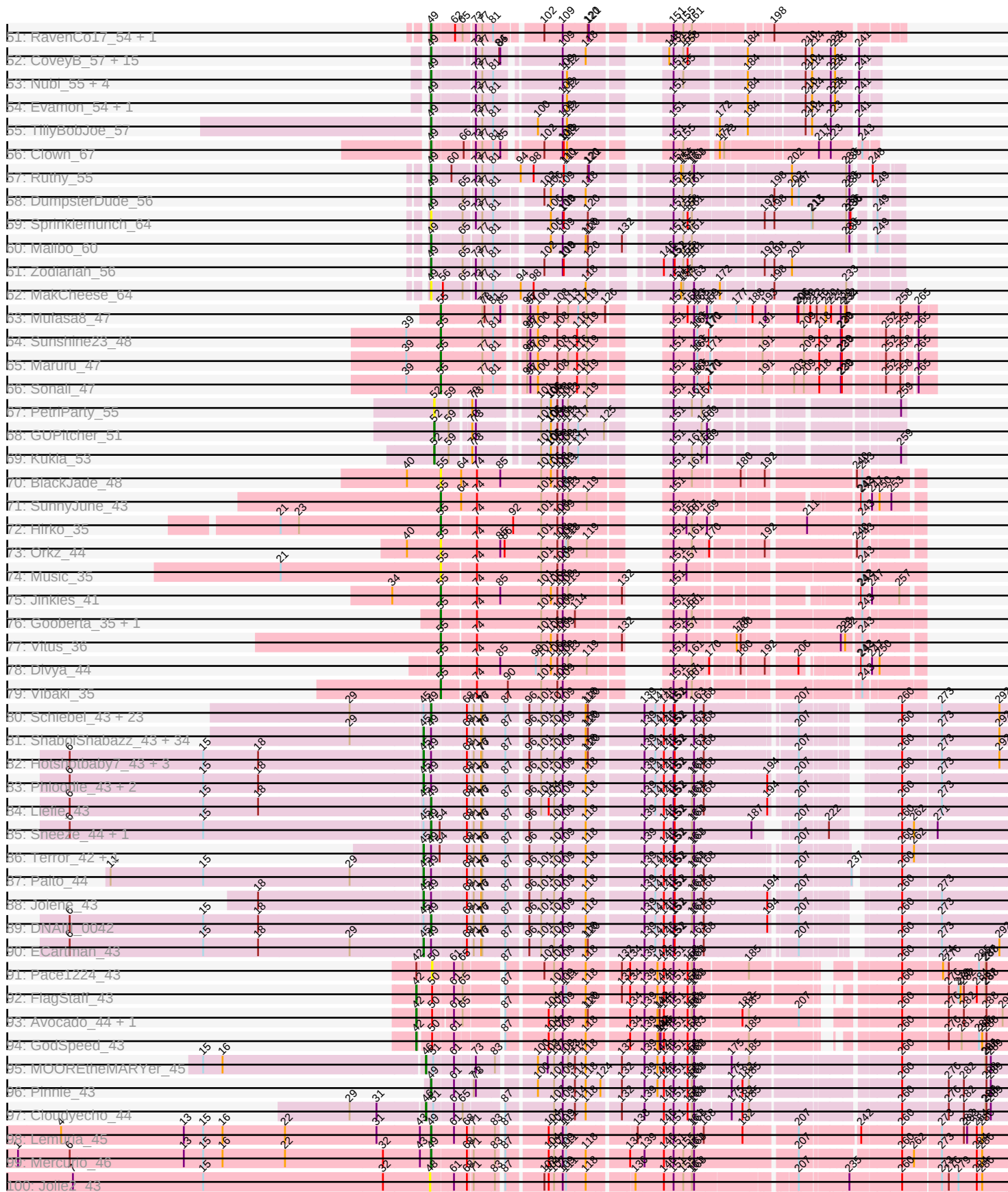
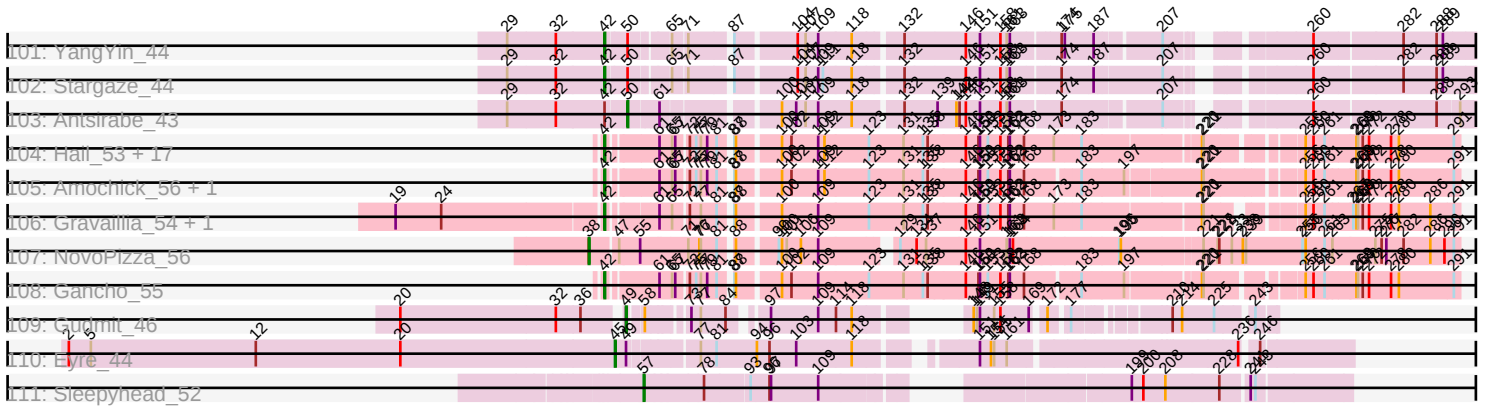


Pham 330426





Pham 330426



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 330426 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330426 has 272 members, 21 are drafts.

Phages represented in each track:

- Track 1 : Farewell_59
- Track 2 : Lysidious_61
- Track 3 : Murp_59
- Track 4 : Frokostdame_59
- Track 5 : Mellie_58
- Track 6 : Wocket_59
- Track 7 : KappaFarmDelta_60
- Track 8 : Angelique_56
- Track 9 : EnalisNailo_54
- Track 10 : EMSquaredA_57, Marteena_56
- Track 11 : Pollux_60, Floral_58
- Track 12 : Confidence_58
- Track 13 : Lilas_56
- Track 14 : Bradissa_54
- Track 15 : Jablanski_60, Pytheas_60
- Track 16 : Posh_60, Wrigley_62
- Track 17 : BeeGee_63
- Track 18 : Cashline_57
- Track 19 : LonelyBoi_56
- Track 20 : Bunnybear_53, Maridalia_61
- Track 21 : Ohgeesy_57
- Track 22 : SushiChef_57
- Track 23 : Neobush_57, Antonio_57, Bialota_55, Dillpickles_62, Kita_58, Manasvini_58, Pickett_50, Polly_54, Eudoria_57, EdnaMode_51, Tayonia_57, Zirinka_54, Trumpet_57, Suscepit_57, Zameen_57
- Track 24 : Herod_58, Hugley_56
- Track 25 : BoyNamedSue_59, AlumE_59
- Track 26 : Madavieve_55
- Track 27 : Hyzer_66
- Track 28 : Agueybana_59
- Track 29 : WelcomeAyanna_60, ThankyouJordi_60
- Track 30 : Madeline_58
- Track 31 : Cynthia_54, Haley23_54, Ebert_58, Bjanes7_51, Sahara_53, Jalleen_54, Nettuno_50, Yinzer_54, Lamberg_50, Gizermo_54, Mocha12_54, Whiteclaw_54, Clap_54, TuertoX_54, GemG_54, Savage_54, Sproutie_54
- Track 32 : JCole_51
- Track 33 : FroggyToad_53

- Track 34 : Yeet412_52
- Track 35 : Attis_52, SoilAssassin_52, LordFarquaad_54
- Track 36 : Matteo_47
- Track 37 : PantheRoc_60
- Track 38 : BaxterFox_60
- Track 39 : Yeezy_57
- Track 40 : Dorito_50
- Track 41 : WinkNick_57, Dolores_56, Sekhmet_56
- Track 42 : Invectra_56, Beenie_48, DobbysSock_47, Clark_54, Samman98_55, Rizz_55
- Track 43 : Easley_52
- Track 44 : Suerte_51
- Track 45 : Adora_56, Shlim410_57, Howe_59, Hortense_59, Twinkle_58
- Track 46 : Powerball_56, PhriskyACE_54
- Track 47 : Thimann_57
- Track 48 : Mcklovin_54
- Track 49 : MichaelScott_55, Annalisa_55, Oregano_58, Tuti_53
- Track 50 : Sidious_57
- Track 51 : RavenCo17_54, Bosnia_55
- Track 52 : CoveyB_57, Valary_57, CherryCola_57, Wizard_54, Egi03_55, RogerDodger_58, Barb_57, KimmyK_56, PullumCavea_54, Halo3_55, Phlop_54, ClamChowder_57, Fugax_58, PinkCoffee_57, Gezellig_54, VanDeWege_58
- Track 53 : Nubi_55, Togo_54, Sendy_56, SmokingBunny_55, SharkTale_57
- Track 54 : Evamon_54, Salvador_54
- Track 55 : TillyBobJoe_57
- Track 56 : Clown_67
- Track 57 : Ruthy_55
- Track 58 : DumpsterDude_56
- Track 59 : Sprinklemunch_64
- Track 60 : Malibo_60
- Track 61 : Zodiariah_56
- Track 62 : MakCheese_64
- Track 63 : Mufasa8_47
- Track 64 : Sunshine23_48
- Track 65 : Maruru_47
- Track 66 : Sonali_47
- Track 67 : PetriParty_55
- Track 68 : GUPitcher_51
- Track 69 : Kukla_53
- Track 70 : BlackJade_48
- Track 71 : SunnyJune_43
- Track 72 : Hirko_35
- Track 73 : Orkz_44
- Track 74 : Music_35
- Track 75 : Jinkies_41
- Track 76 : Gooberta_35, GoldDust_35
- Track 77 : Vitus_36
- Track 78 : Divya_44
- Track 79 : Vibaki_35
- Track 80 : Schiebel_43, Phish_43, Hope_43, Primanti_43, TinaBug_43, Avrafan_43, Cedasite_43, BPs_43, Darionha_43, Crespo_43, Jeilious_43, AizenPogi_43, BruceB_43, Camri_43, Annihilator_43, Jane_43, Phreak_43, CassieYates_43, Frosty24_43, ForeverHowLong_43, BQuat_43, Halo_43, PinkYoshi_43, Angel_43

- Track 81 : ShaboiShabazz_43, Maliketh_43, Zombie_43, MZKinsey_43, Barkley26_43, Cherrybomb426_43, Plagueis_43, DingDing_43, Olga_43, LouisV14_45, JorRay_43, Kareem_43, Wendigo_43, Marmie_43, Ruriko_43, DMoney_43, Renaissance_43, Mowgli_43, Peeb_43, AzulaCat_43, Richarlison_43, Gideon_43, CLED96_43, TomBrady_43, Coleslaw_43, GoldenAsh_43, OctaviousRex_43, ZoMa_43, Grizzly_43, Remy19_43, Gomashi_43, Neoh_43, Sweets_43, Sizemore_43, Kasen3_43
- Track 82 : Hotshotbaby7_43, Chance64_43, Aroostook_43, Jonghyun_42
- Track 83 : Phloodle_43, Periodt_43, Rattrick_43
- Track 84 : Liefie_43
- Track 85 : Sneeze_44, Rabbs_44
- Track 86 : Terror_42, Taheera_42
- Track 87 : Paito_44
- Track 88 : Jolene_43
- Track 89 : DNAIII_0042
- Track 90 : ECartman_43
- Track 91 : Pace1224_43
- Track 92 : FlagStaff_43
- Track 93 : Avocado_44, Cambiare_45
- Track 94 : GodSpeed_43
- Track 95 : MOOREtheMARYer_45
- Track 96 : Pinnie_43
- Track 97 : Cloudyecho_44
- Track 98 : Lemuria_45
- Track 99 : Mercurio_46
- Track 100 : Jolie2_43
- Track 101 : YangYin_44
- Track 102 : Stargaze_44
- Track 103 : Antsirabe_43
- Track 104 : Hail_53, Webster2_56, Luke_55, BloominB_55, Amymech_56, LilHazelNut_56, Hadrien_55, Wishmaker_53, Giles_53, Forge_53, Evanescence_55, Luna22_53, Ubuntu_56, Ein37_56, DeepSoil15_56, Kinbote_55, Dewey_53, HH92_55
- Track 105 : Amochick_56, Daegal_58
- Track 106 : Gravaillia_54, OBUpride_56
- Track 107 : NovoPizza_56
- Track 108 : Gancho_55
- Track 109 : Gudmit_46
- Track 110 : Eyre_44
- Track 111 : Sleepyhead_52

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

The start number called the most often in the published annotations is 49, it was called in 153 of the 251 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_56, Agueybana_59, AizenPogi_43, AlumE_59, Angel_43, Angelique_56, Annalisa_55, Annihilator_43, Antonio_57, Attis_52, Avrafan_43, BPs_43, BQuat_43, Barb_57, BaxterFox_60, BeeGee_63, Beenie_48, Bialota_55, Bjanés7_51,

Bosnia_55, BoyNamedSue_59, Bradissa_54, BruceB_43, Bunnybear_53, Camri_43, Cashline_57, CassieYates_43, Cedasite_43, CherryCola_57, ClamChowder_57, Clap_54, Clark_54, Clown_67, Confidence_58, CoveyB_57, Crespo_43, Cynthia_54, DNAII_0042, Darionha_43, Dillpickles_62, DobbysSock_47, Dolores_56, Dorito_50, DumpsterDude_56, EMSquaredA_57, Easley_52, Ebert_58, EdnaMode_51, Egi03_55, EnalisNailo_54, Eudoria_57, Evamon_54, Floral_58, ForeverHowLong_43, FroggyToad_53, Frosty24_43, Fugax_58, GemG_54, Gezellig_54, Gizermo_54, Gudmit_46, Haley23_54, Halo3_55, Halo_43, Herod_58, Hope_43, Hortense_59, Howe_59, Hugley_56, Hyzer_66, Invectra_56, JCole_51, Jablanski_60, Jalleen_54, Jane_43, Jeilious_43, KappaFarmDelta_60, KimmyK_56, Kita_58, Lamberg_50, Lemuria_45, Liefie_43, Lilas_56, LonelyBoi_56, LordFarquaad_54, Lysidious_61, Madavieve_55, Madeline_58, MakCheese_64, Malibo_60, Manasvini_58, Maridalia_61, Marteena_56, Matteo_47, Mcklovin_54, Mellie_58, Mercurio_46, MichaelScott_55, Mocha12_54, Murp_59, Neobush_57, Nettuno_50, Nubi_55, Ohgeesy_57, Oregano_58, PantheRoc_60, Phish_43, Phlop_54, Phreak_43, PhriskyACE_54, Pickett_50, PinkCoffee_57, PinkYoshi_43, Pinnie_43, Pollux_60, Polly_54, Posh_60, Powerball_56, Primanti_43, PullumCavea_54, Pytheas_60, Rabbs_44, RavenCo17_54, Rizz_55, RogerDodger_58, Ruthy_55, Sahara_53, Salvador_54, Samman98_55, Savage_54, Schiebel_43, Sekhmet_56, Sendy_56, SharkTale_57, Shlim410_57, Sidious_57, SmokingBunny_55, Sneeze_44, SoilAssassin_52, Sprinklemunch_64, Sproutie_54, Suerte_51, Suscepit_57, SushiChef_57, Tayonia_57, ThankyouJordi_60, Thimann_57, TillyBobJoe_57, TinaBug_43, Togo_54, Trumpet_57, TuertoX_54, Tuti_53, Twinkle_58, Valary_57, VanDeWege_58, WelcomeAyanna_60, Whiteclaw_54, WinkNick_57, Wizard_54, Wocket_59, Wrigley_62, Yeet412_52, Yeezy_57, Yinzer_54, Zameen_57, Zirinka_54, Zodiariah_56,

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

- Aroostook_43, AzulaCat_43, Barkley26_43, CLED96_43, Chance64_43, Cherrybomb426_43, Coleslaw_43, DMoney_43, DingDing_43, ECartman_43, Eyre_44, Gideon_43, GoldenAsh_43, Gomashi_43, Grizzly_43, Hotshotbaby7_43, Jolene_43, Jonghyun_42, JorRay_43, Kareem_43, Kasen3_43, LouisV14_45, MZKinsey_43, Maliketh_43, Marmie_43, Mowgli_43, Neoh_43, OctaviousRex_43, Olga_43, Paito_44, Peeb_43, Periodt_43, Phloodle_43, Plagueis_43, Rattrick_43, Remy19_43, Renaissance_43, Richarlison_43, Ruriko_43, ShaboiShabazz_43, Sizemore_43, Sweets_43, Taheera_42, Terror_42, TomBrady_43, Wendigo_43, ZoMa_43, Zombie_43,

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

- Amochick_56, Amymech_56, Antsirabe_43, Avocado_44, BlackJade_48, BloominB_55, Cambiare_45, Cloudyecho_44, Daegal_58, DeepSoil15_56, Dewey_53, Divya_44, Ein37_56, Evanesce_55, Farewell_59, FlagStaff_43, Forge_53, Frokostdame_59, GUPitcher_51, Gancho_55, Giles_53, GodSpeed_43, GoldDust_35, Gooberta_35, Gravaillia_54, HH92_55, Hadrien_55, Hail_53, Hirko_35, Jinkies_41, Jolie2_43, Kinbote_55, Kukla_53, LilHazelnut_56, Luke_55, Luna22_53, MOOREtheMARYer_45, Maruru_47, Mufasa8_47, Music_35, NovoPizza_56, OBUpride_56, Orkz_44, Pace1224_43, PetriParty_55, Sleepyhead_52, Sonali_47, Stargaze_44, SunnyJune_43, Sunshine23_48, Ubuntu_56, Vibaki_35, Vitus_36, Webster2_56, Wishmaker_53, YangYin_44,

Summary by start number:

Start 38:

- Found in 1 of 272 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 251
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NovoPizza_56 (Q),

Start 42:

- Found in 31 of 272 (11.4%) of genes in pham
- Manual Annotations of this start: 29 of 251
- Called 93.5% of time when present
- Phage (with cluster) where this start called: Amochick_56 (Q), Amymech_56 (Q), Avocado_44 (G2), BloominB_55 (Q), Cambiare_45 (G2), Daegal_58 (Q), DeepSoil15_56 (Q), Dewey_53 (Q), Ein37_56 (Q), Evanesce_55 (Q), FlagStaff_43 (G2), Forge_53 (Q), Gancho_55 (Q), Giles_53 (Q), GodSpeed_43 (G2), Gravaiilia_54 (Q), HH92_55 (Q), Hadrien_55 (Q), Hail_53 (Q), Kinbote_55 (Q), LilHazelNut_56 (Q), Luke_55 (Q), Luna22_53 (Q), OBUpride_56 (Q), Stargaze_44 (G5), Ubuntu_56 (Q), Webster2_56 (Q), Wishmaker_53 (Q), YangYin_44 (G5),

Start 45:

- Found in 76 of 272 (27.9%) of genes in pham
- Manual Annotations of this start: 48 of 251
- Called 63.2% of time when present
- Phage (with cluster) where this start called: Aroostook_43 (G1), AzulaCat_43 (G1), Barkley26_43 (G1), CLED96_43 (G1), Chance64_43 (G1), Cherrybomb426_43 (G1), Coleslaw_43 (G1), DMoney_43 (G1), DingDing_43 (G1), ECartman_43 (G1), Eyre_44 (singleton), Gideon_43 (G1), GoldenAsh_43 (G1), Gomashi_43 (G1), Grizzly_43 (G1), Hotshotbaby7_43 (G1), Jolene_43 (G1), Jonghyun_42 (G1), JorRay_43 (G1), Kareem_43 (G1), Kasen3_43 (G1), LouisV14_45 (G1), MZKinsey_43 (G1), Maliketh_43 (G1), Marmie_43 (G1), Mowgli_43 (G1), Neoh_43 (G), OctaviousRex_43 (G1), Olga_43 (G1), Paito_44 (G1), Peeb_43 (G1), Periodt_43 (G1), Phloodle_43 (G1), Plagueis_43 (G1), Rattrick_43 (G1), Remy19_43 (G1), Renaissance_43 (G1), Richarlison_43 (G1), Ruriko_43 (G1), ShaboiShabazz_43 (G1), Sizemore_43 (G1), Sweets_43 (G1), Taheera_42 (G1), Terror_42 (G1), TomBrady_43 (G1), Wendigo_43 (G1), ZoMa_43 (G1), Zombie_43 (G1),

Start 46:

- Found in 2 of 272 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 251
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cloudyecho_44 (G3), MOOREtheMARYer_45 (G3),

Start 48:

- Found in 1 of 272 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jolie2_43 (G4),

Start 49:

- Found in 216 of 272 (79.4%) of genes in pham
- Manual Annotations of this start: 153 of 251
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Adora_56 (CZ4), Agueybana_59 (CZ1), AizenPogi_43 (G1), AlumE_59 (CZ1), Angel_43 (G1), Angelique_56 (CY1),

Annalisa_55 (CZ4), Annihilator_43 (G1), Antonio_57 (CZ1), Attis_52 (CZ2), Avrafan_43 (G1), BPs_43 (G1), BQuat_43 (G1), Barb_57 (DC1), BaxterFox_60 (CZ3), BeeGee_63 (CY5), Beenie_48 (CZ4), Bialota_55 (CZ1), Bjaness_51 (CZ2), Bosnia_55 (CZ1), BoyNamedSue_59 (CZ1), Bradissa_54 (CY1), BruceB_43 (G1), Bunnybear_53 (CZ), Camri_43 (G1), Cashline_57 (CY6), CassieYates_43 (G1), Cedasite_43 (G1), CherryCola_57 (DC1), ClamChowder_57 (DC1), Clap_54 (CZ2), Clark_54 (CZ4), Clown_67 (DC2), Confidence_58 (CY1), CoveyB_57 (DC1), Crespo_43 (G1), Cynthia_54 (CZ2), DNAIII_0042 (G1), Darionha_43 (G1), Dillpickles_62 (CZ1), DobbysSock_47 (CZ4), Dolores_56 (CZ4), Dorito_50 (CZ4), DumpsterDude_56 (DW), EmsquaredA_57 (CY1), Easley_52 (CZ4), Ebert_58 (CZ2), EdnaMode_51 (CZ2), Egi03_55 (DC1), EnalisNailo_54 (CY1), Eudoria_57 (CZ1), Evamon_54 (DC1), Floral_58 (CY1), ForeverHowLong_43 (G1), FroggyToad_53 (CZ2), Frosty24_43 (G1), Fugax_58 (DC1), GemG_54 (CZ2), Gezellig_54 (DC1), Gizermo_54 (CZ2), Gudmit_46 (singleton), Haley23_54 (CZ2), Halo3_55 (DC1), Halo_43 (G1), Herod_58 (CZ1), Hope_43 (G1), Hortense_59 (CZ4), Howe_59 (CZ4), Hugley_56 (CZ1), Hyzer_66 (CZ1), Invectra_56 (CZ4), JCole_51 (CZ2), Jablanski_60 (CY3), Jalleen_54 (CZ2), Jane_43 (G1), Jeilious_43 (G), KappaFarmDelta_60 (CV), KimmyK_56 (DC1), Kita_58 (CZ1), Lamberg_50 (CZ2), Lemuria_45 (G4), Liefie_43 (G1), Lilas_56 (CY1), LonelyBoi_56 (CY7), LordFarquaad_54 (CZ2), Lysidious_61 (CV), Madavieve_55 (CZ1), Madeline_58 (CZ1), MakCheese_64 (DW), Malibo_60 (DW), Manasvini_58 (CZ1), Maridalia_61 (CZ1), Marteena_56 (CY1), Matteo_47 (CZ2), Mcklovin_54 (CZ4), Mellie_58 (CV), Mercurio_46 (G4), MichaelScott_55 (CZ4), Mocha12_54 (CZ2), Murp_59 (CV), Neobush_57 (CZ1), Nettuno_50 (CZ2), Nubi_55 (DC1), Ohgeesy_57 (CZ), Oregano_58 (CZ4), PantheRoc_60 (CZ3), Phish_43 (G1), Phlop_54 (DC1), Phreak_43 (G1), PhriskyACE_54 (CZ4), Pickett_50 (CZ2), PinkCoffee_57 (DC1), PinkYoshi_43 (G1), Pinnie_43 (G3), Pollux_60 (CY1), Polly_54 (CZ1), Posh_60 (CY4), Powerball_56 (CZ4), Primanti_43 (G1), PullumCavea_54 (DC1), Pytheas_60 (CY3), Rabbs_44 (G1), RavenCo17_54 (CZ8), Rizz_55 (CZ4), RogerDodger_58 (DC1), Ruthy_55 (DW), Sahara_53 (CZ2), Salvador_54 (DC1), Samman98_55 (CZ4), Savage_54 (CZ2), Schiebel_43 (G1), Sekhmet_56 (CZ4), Sendy_56 (DC1), SharkTale_57 (DC1), Shlim410_57 (CZ4), Sidious_57 (CZ7), SmokingBunny_55 (DC1), Sneeze_44 (G1), SoilAssassin_52 (CZ2), Sprinklemunch_64 (DW), Sproutie_54 (CZ2), Suerte_51 (CZ4), Suscepit_57 (CZ1), SushiChef_57 (CZ), Tayonia_57 (CZ1), ThankyouJordi_60 (CZ1), Thimann_57 (CZ4), TillyBobJoe_57 (DC1), TinaBug_43 (G1), Togo_54 (DC1), Trumpet_57 (CZ1), TuertoX_54 (CZ2), Tuti_53 (CZ4), Twinkle_58 (CZ4), Valary_57 (DC1), VanDeWege_58 (DC1), WelcomeAyanna_60 (CZ1), Whiteclaw_54 (CZ2), WinkNick_57 (CZ4), Wizard_54 (DC1), Wocket_59 (CV), Wrigley_62 (CY4), Yeet412_52 (CZ2), Yeezy_57 (CZ3), Yinzer_54 (CZ2), Zameen_57 (CZ1), Zirinka_54 (CZ1), Zodiariah_56 (DW),

Start 50:

- Found in 8 of 272 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 251
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_43 (G5), Pace1224_43 (G2),

Start 52:

- Found in 3 of 272 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 251
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GUPitcher_51 (FJ), Kukla_53 (FJ), PetriParty_55 (FJ),

Start 53:

- Found in 1 of 272 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 251
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell_59 (AF),

Start 55:

- Found in 17 of 272 (6.2%) of genes in pham
- Manual Annotations of this start: 13 of 251
- Called 94.1% of time when present
- Phage (with cluster) where this start called: BlackJade_48 (FL), Divya_44 (FL), Frokostdame_59 (CV), GoldDust_35 (FL), Gooberta_35 (FL), Hirko_35 (FL), Jinkies_41 (FL), Maruru_47 (FG), Mufasa8_47 (FG), Music_35 (FL), Orkz_44 (FL), Sonali_47 (FG), SunnyJune_43 (FL), Sunshine23_48 (FG), Vibaki_35 (FL), Vitus_36 (FL),

Start 57:

- Found in 1 of 272 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 251
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sleepyhead_52 (singleton),

Summary by clusters:

There are 29 clusters represented in this pham: CZ8, CZ2, CZ3, CZ1, singleton, CZ4, FG, DW, FJ, FL, G5, G4, G3, G2, G1, CY4, CY3, CY1, CY7, CY6, G, AF, CZ7, Q, CZ, CY5, DC2, CV, DC1,

Info for manual annotations of cluster AF:

- Start number 53 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster CV:

- Start number 49 was manually annotated 5 times for cluster CV.
- Start number 55 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CY1:

- Start number 49 was manually annotated 9 times for cluster CY1.

Info for manual annotations of cluster CY3:

- Start number 49 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:

- Start number 49 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:

- Start number 49 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:

- Start number 49 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 49 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ:

- Start number 49 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 49 was manually annotated 22 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 49 was manually annotated 23 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 49 was manually annotated 3 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 49 was manually annotated 24 times for cluster CZ4.

Info for manual annotations of cluster CZ7:

- Start number 49 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster CZ8:

- Start number 49 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DC1:

- Start number 49 was manually annotated 22 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 49 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DW:

- Start number 49 was manually annotated 4 times for cluster DW.

Info for manual annotations of cluster FG:

- Start number 55 was manually annotated 4 times for cluster FG.

Info for manual annotations of cluster FJ:

- Start number 52 was manually annotated 2 times for cluster FJ.

Info for manual annotations of cluster FL:

- Start number 55 was manually annotated 8 times for cluster FL.

Info for manual annotations of cluster G:

- Start number 45 was manually annotated 1 time for cluster G.
- Start number 49 was manually annotated 1 time for cluster G.

Info for manual annotations of cluster G1:

- Start number 45 was manually annotated 46 times for cluster G1.
- Start number 49 was manually annotated 24 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 42 was manually annotated 4 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 46 was manually annotated 2 times for cluster G3.

- Start number 49 was manually annotated 1 time for cluster G3.

Info for manual annotations of cluster G4:

- Start number 49 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 42 was manually annotated 2 times for cluster G5.
- Start number 50 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster Q:

- Start number 38 was manually annotated 1 time for cluster Q.
- Start number 42 was manually annotated 23 times for cluster Q.

Gene Information:

Gene: Adora_56 Start: 40644, Stop: 41663, Start Num: 49

Candidate Starts for Adora_56:

(27, 40416), (35, 40581), (37, 40590), (41, 40602), (Start: 49 @40644 has 153 MA's), (73, 40728), (79, 40749), (89, 40794), (90, 40797), (97, 40845), (100, 40866), (108, 40920), (109, 40935), (122, 40998), (128, 41037), (151, 41118), (164, 41181), (198, 41343), (233, 41538),

Gene: Agueybana_59 Start: 41420, Stop: 42568, Start Num: 49

Candidate Starts for Agueybana_59:

(32, 41321), (36, 41366), (Start: 49 @41420 has 153 MA's), (77, 41528), (81, 41558), (118, 41813), (120, 41819), (151, 41987), (154, 42008), (155, 42014), (161, 42038), (163, 42044), (172, 42107), (176, 42143), (179, 42152), (181, 42164), (198, 42245), (202, 42293), (204, 42302),

Gene: AizenPogi_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for AizenPogi_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: AlumE_59 Start: 41196, Stop: 42341, Start Num: 49

Candidate Starts for AlumE_59:

(14, 40575), (17, 40671), (25, 40911), (32, 41097), (36, 41142), (Start: 49 @41196 has 153 MA's), (77, 41304), (81, 41334), (118, 41589), (151, 41763), (154, 41784), (155, 41790), (161, 41814), (163, 41820), (172, 41883), (176, 41919), (181, 41940),

Gene: Amochick_56 Start: 39892, Stop: 41346, Start Num: 42

Candidate Starts for Amochick_56:

(Start: 42 @39892 has 29 MA's), (61, 39970), (65, 39991), (67, 39997), (72, 40015), (75, 40027), (77, 40036), (79, 40048), (81, 40066), (87, 40081), (88, 40084), (100, 40153), (102, 40171), (109, 40222), (112, 40234), (123, 40318), (131, 40384), (135, 40420), (138, 40429), (146, 40495), (150, 40519), (151, 40522), (153, 40537), (158, 40561), (162, 40576), (163, 40579), (168, 40606), (183, 40696), (197, 40771), (220, 40903), (221, 40906), (256, 41065), (260, 41077), (261, 41098), (268, 41152), (269, 41155), (270, 41164), (272, 41176), (278, 41218), (280, 41233), (291, 41335),

Gene: Amymech_56 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Amymech_56:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Angel_43 Start: 32995, Stop: 34383, Start Num: 49

Candidate Starts for Angel_43:

(29, 32785), (Start: 45 @32974 has 48 MA's), (Start: 49 @32995 has 153 MA's), (68, 33076), (71, 33088), (76, 33109), (77, 33112), (87, 33175), (96, 33223), (101, 33256), (107, 33292), (109, 33316), (118, 33379), (120, 33385), (139, 33517), (141, 33547), (146, 33571), (151, 33598), (152, 33601), (163, 33655), (168, 33682), (207, 33889), (260, 34087), (273, 34186), (292, 34342),

Gene: Angelique_56 Start: 41358, Stop: 42494, Start Num: 49

Candidate Starts for Angelique_56:

(36, 41292), (Start: 49 @41358 has 153 MA's), (75, 41460), (77, 41469), (81, 41499), (89, 41535), (94, 41574), (102, 41640), (118, 41754), (121, 41763), (149, 41922), (151, 41928), (154, 41949), (155, 41955), (161, 41979), (163, 41985), (176, 42078), (192, 42150), (198, 42177), (202, 42225),

Gene: Annalisa_55 Start: 37523, Stop: 38671, Start Num: 49

Candidate Starts for Annalisa_55:

(32, 37412), (36, 37457), (Start: 49 @37523 has 153 MA's), (77, 37631), (81, 37661), (94, 37736), (118, 37916), (151, 38090), (154, 38111), (155, 38117), (161, 38141), (162, 38144), (163, 38147), (176, 38249), (179, 38258), (181, 38270), (198, 38351), (233, 38546),

Gene: Annihilator_43 Start: 33001, Stop: 34389, Start Num: 49

Candidate Starts for Annihilator_43:

(29, 32791), (Start: 45 @32980 has 48 MA's), (Start: 49 @33001 has 153 MA's), (68, 33082), (71, 33094), (76, 33115), (77, 33118), (87, 33181), (96, 33229), (101, 33262), (107, 33298), (109, 33322), (118, 33385), (120, 33391), (139, 33523), (141, 33553), (146, 33577), (151, 33604), (152, 33607), (163, 33661), (168, 33688), (207, 33895), (260, 34093), (273, 34192), (292, 34348),

Gene: Antonio_57 Start: 39712, Stop: 40860, Start Num: 49

Candidate Starts for Antonio_57:

(32, 39613), (36, 39658), (Start: 49 @39712 has 153 MA's), (77, 39823), (81, 39853), (118, 40108), (151, 40282), (154, 40303), (155, 40309), (161, 40333), (163, 40339), (172, 40402), (176, 40438), (181, 40459), (198, 40543), (202, 40591),

Gene: Antsirabe_43 Start: 34057, Stop: 35427, Start Num: 50

Candidate Starts for Antsirabe_43:

(29, 33841), (32, 33931), (Start: 42 @34021 has 29 MA's), (Start: 50 @34057 has 1 MA's), (61, 34102), (100, 34285), (103, 34312), (107, 34330), (109, 34354), (118, 34417), (132, 34498), (139, 34555), (142, 34591), (144, 34597), (146, 34609), (151, 34636), (158, 34675), (161, 34687), (163, 34693), (174, 34774), (207, 34939), (260, 35137), (288, 35359), (293, 35395),

Gene: Aroostook_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Aroostook_43:

(6, 32023), (15, 32395), (18, 32548), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Attis_52 Start: 36845, Stop: 37990, Start Num: 49

Candidate Starts for Attis_52:

(32, 36746), (36, 36791), (Start: 49 @36845 has 153 MA's), (77, 36953), (81, 36983), (118, 37238), (120, 37244), (133, 37325), (151, 37412), (154, 37433), (155, 37439), (161, 37463), (163, 37469), (172, 37532), (176, 37568), (181, 37589), (198, 37670), (202, 37718), (204, 37727),

Gene: Avocado_44 Start: 35068, Stop: 36498, Start Num: 42

Candidate Starts for Avocado_44:

(Start: 42 @35068 has 29 MA's), (Start: 50 @35101 has 1 MA's), (61, 35143), (65, 35161), (87, 35254), (104, 35356), (107, 35371), (109, 35395), (118, 35458), (120, 35464), (134, 35560), (139, 35596), (142, 35632), (144, 35638), (146, 35650), (151, 35677), (158, 35716), (161, 35728), (163, 35734), (182, 35848), (185, 35866), (207, 36004), (260, 36208), (276, 36325), (282, 36367), (288, 36430), (293, 36466),

Gene: Avrafan_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for Avrafan_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: AzulaCat_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for AzulaCat_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: BPs_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for BPs_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: BQuat_43 Start: 33001, Stop: 34389, Start Num: 49

Candidate Starts for BQuat_43:

(29, 32791), (Start: 45 @32980 has 48 MA's), (Start: 49 @33001 has 153 MA's), (68, 33082), (71, 33094), (76, 33115), (77, 33118), (87, 33181), (96, 33229), (101, 33262), (107, 33298), (109, 33322), (118, 33385), (120, 33391), (139, 33523), (141, 33553), (146, 33577), (151, 33604), (152, 33607), (163, 33661), (168, 33688), (207, 33895), (260, 34093), (273, 34192), (292, 34348),

Gene: Barb_57 Start: 42048, Stop: 42986, Start Num: 49

Candidate Starts for Barb_57:

(Start: 49 @42048 has 153 MA's), (73, 42129), (77, 42147), (84, 42192), (85, 42195), (109, 42333), (118, 42396), (148, 42504), (151, 42516), (155, 42543), (158, 42555), (184, 42687), (210, 42807), (214, 42825), (223, 42876), (226, 42888), (241, 42933),

Gene: Barkley26_43 Start: 32996, Stop: 34405, Start Num: 45

Candidate Starts for Barkley26_43:

(29, 32807), (Start: 45 @32996 has 48 MA's), (Start: 49 @33017 has 153 MA's), (68, 33098), (71, 33110), (76, 33131), (77, 33134), (87, 33197), (96, 33245), (101, 33278), (107, 33314), (109, 33338),

(118, 33401), (120, 33407), (139, 33539), (141, 33569), (146, 33593), (151, 33620), (152, 33623), (163, 33677), (168, 33704), (207, 33911), (260, 34109), (273, 34208), (292, 34364),

Gene: BaxterFox_60 Start: 41905, Stop: 43053, Start Num: 49

Candidate Starts for BaxterFox_60:

(32, 41806), (36, 41851), (Start: 49 @41905 has 153 MA's), (69, 41986), (77, 42013), (81, 42043), (102, 42184), (118, 42298), (120, 42304), (147, 42454), (151, 42472), (154, 42493), (155, 42499), (161, 42523), (163, 42529), (172, 42592), (176, 42628), (181, 42649), (198, 42730), (202, 42778), (204, 42787), (233, 42925),

Gene: BeeGee_63 Start: 41627, Stop: 42757, Start Num: 49

Candidate Starts for BeeGee_63:

(32, 41528), (36, 41573), (Start: 49 @41627 has 153 MA's), (65, 41702), (73, 41729), (77, 41747), (81, 41777), (94, 41852), (98, 41888), (120, 42038), (121, 42041), (151, 42206), (154, 42227), (155, 42233), (161, 42257), (163, 42263), (172, 42323), (181, 42371), (190, 42407), (202, 42488),

Gene: Beenie_48 Start: 37101, Stop: 38252, Start Num: 49

Candidate Starts for Beenie_48:

(32, 36990), (36, 37035), (Start: 49 @37101 has 153 MA's), (77, 37209), (81, 37239), (94, 37314), (118, 37494), (151, 37668), (154, 37689), (155, 37695), (161, 37719), (162, 37722), (163, 37725), (176, 37827), (179, 37836), (181, 37848), (198, 37929), (233, 38124), (249, 38184),

Gene: Bialota_55 Start: 40344, Stop: 41492, Start Num: 49

Candidate Starts for Bialota_55:

(32, 40245), (36, 40290), (Start: 49 @40344 has 153 MA's), (77, 40455), (81, 40485), (118, 40740), (151, 40914), (154, 40935), (155, 40941), (161, 40965), (163, 40971), (172, 41034), (176, 41070), (181, 41091), (198, 41175), (202, 41223),

Gene: Bjaner7_51 Start: 35732, Stop: 36880, Start Num: 49

Candidate Starts for Bjaner7_51:

(Start: 49 @35732 has 153 MA's), (77, 35840), (81, 35870), (118, 36125), (120, 36131), (147, 36281), (151, 36299), (154, 36320), (155, 36326), (161, 36350), (163, 36356), (172, 36419), (176, 36455), (181, 36476), (198, 36557),

Gene: BlackJade_48 Start: 32454, Stop: 33530, Start Num: 55

Candidate Starts for BlackJade_48:

(40, 32367), (Start: 55 @32454 has 13 MA's), (64, 32502), (74, 32544), (85, 32607), (101, 32718), (106, 32745), (108, 32763), (109, 32778), (111, 32787), (151, 32961), (161, 33012), (180, 33126), (192, 33174), (240, 33378), (243, 33393),

Gene: BloominB_55 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for BloominB_55:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Bosnia_55 Start: 41752, Stop: 42846, Start Num: 49

Candidate Starts for Bosnia_55:

(Start: 49 @41752 has 153 MA's), (62, 41803), (65, 41821), (73, 41848), (77, 41866), (81, 41896), (102, 42001), (109, 42052), (120, 42121), (121, 42124), (151, 42289), (155, 42316), (161, 42340),

(198, 42523),

Gene: BoyNamedSue_59 Start: 41196, Stop: 42341, Start Num: 49

Candidate Starts for BoyNamedSue_59:

(14, 40575), (17, 40671), (25, 40911), (32, 41097), (36, 41142), (Start: 49 @41196 has 153 MA's), (77, 41304), (81, 41334), (118, 41589), (151, 41763), (154, 41784), (155, 41790), (161, 41814), (163, 41820), (172, 41883), (176, 41919), (181, 41940),

Gene: Bradissa_54 Start: 40795, Stop: 41940, Start Num: 49

Candidate Starts for Bradissa_54:

(Start: 49 @40795 has 153 MA's), (77, 40903), (81, 40933), (118, 41188), (151, 41362), (154, 41383), (155, 41389), (161, 41413), (163, 41419), (172, 41482), (176, 41518), (181, 41539),

Gene: BruceB_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for BruceB_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Bunnybear_53 Start: 39210, Stop: 40340, Start Num: 49

Candidate Starts for Bunnybear_53:

(32, 39111), (36, 39156), (Start: 49 @39210 has 153 MA's), (65, 39285), (73, 39312), (77, 39330), (81, 39360), (89, 39396), (94, 39435), (98, 39471), (120, 39621), (121, 39624), (151, 39789), (154, 39810), (155, 39816), (161, 39840), (163, 39846), (172, 39906), (181, 39954), (190, 39990), (202, 40071), (204, 40080),

Gene: CLED96_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for CLED96_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Cambiare_45 Start: 35311, Stop: 36741, Start Num: 42

Candidate Starts for Cambiare_45:

(Start: 42 @35311 has 29 MA's), (Start: 50 @35344 has 1 MA's), (61, 35386), (65, 35404), (87, 35497), (104, 35599), (107, 35614), (109, 35638), (118, 35701), (120, 35707), (134, 35803), (139, 35839), (142, 35875), (144, 35881), (146, 35893), (151, 35920), (158, 35959), (161, 35971), (163, 35977), (182, 36091), (185, 36109), (207, 36247), (260, 36451), (276, 36568), (282, 36610), (288, 36673), (293, 36709),

Gene: Camri_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for Camri_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Cashline_57 Start: 41477, Stop: 42622, Start Num: 49

Candidate Starts for Cashline_57:

(Start: 49 @41477 has 153 MA's), (77, 41585), (81, 41615), (118, 41870), (151, 42044), (154, 42065), (161, 42095), (163, 42101), (176, 42200), (181, 42221), (192, 42275), (198, 42302),

Gene: CassieYates_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for CassieYates_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Cedasite_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for Cedasite_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Chance64_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Chance64_43:

(6, 32023), (15, 32395), (18, 32548), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: CherryCola_57 Start: 42681, Stop: 43619, Start Num: 49

Candidate Starts for CherryCola_57:

(Start: 49 @42681 has 153 MA's), (73, 42762), (77, 42780), (84, 42825), (85, 42828), (109, 42966), (118, 43029), (148, 43137), (151, 43149), (155, 43176), (158, 43188), (184, 43320), (210, 43440), (214, 43458), (223, 43509), (226, 43521), (241, 43566),

Gene: Cherrybomb426_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Cherrybomb426_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: ClamChowder_57 Start: 42048, Stop: 42986, Start Num: 49

Candidate Starts for ClamChowder_57:

(Start: 49 @42048 has 153 MA's), (73, 42129), (77, 42147), (84, 42192), (85, 42195), (109, 42333), (118, 42396), (148, 42504), (151, 42516), (155, 42543), (158, 42555), (184, 42687), (210, 42807), (214, 42825), (223, 42876), (226, 42888), (241, 42933),

Gene: Clap_54 Start: 35911, Stop: 37059, Start Num: 49

Candidate Starts for Clap_54:

(Start: 49 @35911 has 153 MA's), (77, 36019), (81, 36049), (118, 36304), (120, 36310), (147, 36460), (151, 36478), (154, 36499), (155, 36505), (161, 36529), (163, 36535), (172, 36598), (176, 36634), (181, 36655), (198, 36736),

Gene: Clark_54 Start: 36918, Stop: 38069, Start Num: 49

Candidate Starts for Clark_54:

(32, 36807), (36, 36852), (Start: 49 @36918 has 153 MA's), (77, 37026), (81, 37056), (94, 37131), (118, 37311), (151, 37485), (154, 37506), (155, 37512), (161, 37536), (162, 37539), (163, 37542), (176, 37644), (179, 37653), (181, 37665), (198, 37746), (233, 37941), (249, 38001),

Gene: Cloudyecho_44 Start: 34783, Stop: 36225, Start Num: 46

Candidate Starts for Cloudyecho_44:

(29, 34588), (31, 34660), (Start: 46 @34783 has 2 MA's), (51, 34798), (61, 34843), (65, 34861), (87, 34954), (107, 35071), (109, 35095), (114, 35128), (118, 35158), (132, 35239), (139, 35296), (146, 35350), (151, 35377), (158, 35416), (161, 35428), (163, 35434), (175, 35515), (182, 35545), (185, 35563), (260, 35932), (276, 36049), (282, 36091), (287, 36151), (288, 36154), (289, 36166),

Gene: Clown_67 Start: 46683, Stop: 47642, Start Num: 49

Candidate Starts for Clown_67:

(Start: 49 @46683 has 153 MA's), (66, 46755), (73, 46779), (77, 46797), (81, 46827), (85, 46845), (102, 46932), (109, 46983), (110, 46986), (112, 46995), (151, 47166), (155, 47193), (172, 47274), (173, 47286), (217, 47508), (223, 47541), (243, 47607),

Gene: Coleslaw_43 Start: 32980, Stop: 34389, Start Num: 45

Candidate Starts for Coleslaw_43:

(29, 32791), (Start: 45 @32980 has 48 MA's), (Start: 49 @33001 has 153 MA's), (68, 33082), (71, 33094), (76, 33115), (77, 33118), (87, 33181), (96, 33229), (101, 33262), (107, 33298), (109, 33322), (118, 33385), (120, 33391), (139, 33523), (141, 33553), (146, 33577), (151, 33604), (152, 33607), (163, 33661), (168, 33688), (207, 33895), (260, 34093), (273, 34192), (292, 34348),

Gene: Confidence_58 Start: 39325, Stop: 40473, Start Num: 49

Candidate Starts for Confidence_58:

(Start: 49 @39325 has 153 MA's), (77, 39433), (81, 39463), (91, 39511), (118, 39718), (120, 39724), (151, 39892), (154, 39913), (155, 39919), (161, 39943), (163, 39949), (172, 40012), (176, 40048), (181, 40069), (202, 40201),

Gene: CoveyB_57 Start: 41726, Stop: 42664, Start Num: 49

Candidate Starts for CoveyB_57:

(Start: 49 @41726 has 153 MA's), (73, 41807), (77, 41825), (84, 41870), (85, 41873), (109, 42011), (118, 42074), (148, 42182), (151, 42194), (155, 42221), (158, 42233), (184, 42365), (210, 42485), (214, 42503), (223, 42554), (226, 42566), (241, 42611),

Gene: Crespo_43 Start: 33011, Stop: 34399, Start Num: 49

Candidate Starts for Crespo_43:

(29, 32801), (Start: 45 @32990 has 48 MA's), (Start: 49 @33011 has 153 MA's), (68, 33092), (71, 33104), (76, 33125), (77, 33128), (87, 33191), (96, 33239), (101, 33272), (107, 33308), (109, 33332), (118, 33395), (120, 33401), (139, 33533), (141, 33563), (146, 33587), (151, 33614), (152, 33617), (163, 33671), (168, 33698), (207, 33905), (260, 34103), (273, 34202), (292, 34358),

Gene: Cynthia_54 Start: 35909, Stop: 37057, Start Num: 49

Candidate Starts for Cynthia_54:

(Start: 49 @35909 has 153 MA's), (77, 36017), (81, 36047), (118, 36302), (120, 36308), (147, 36458), (151, 36476), (154, 36497), (155, 36503), (161, 36527), (163, 36533), (172, 36596), (176, 36632), (181, 36653), (198, 36734),

Gene: DMoney_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for DMoney_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: DNAIII_0042 Start: 31644, Stop: 33047, Start Num: 49

Candidate Starts for DNAIII_0042:

(6, 30657), (15, 31029), (18, 31182), (Start: 45 @31623 has 48 MA's), (Start: 49 @31644 has 153 MA's), (68, 31725), (71, 31737), (76, 31758), (77, 31761), (87, 31824), (96, 31872), (101, 31905), (107, 31941), (109, 31965), (118, 32028), (139, 32166), (141, 32196), (146, 32220), (151, 32247), (152, 32250), (161, 32298), (163, 32304), (168, 32331), (194, 32484), (207, 32547), (260, 32751), (273, 32850),

Gene: Daegal_58 Start: 40452, Stop: 41900, Start Num: 42

Candidate Starts for Daegal_58:

(Start: 42 @40452 has 29 MA's), (61, 40530), (65, 40551), (67, 40557), (72, 40575), (75, 40587), (77, 40596), (79, 40608), (81, 40626), (87, 40641), (88, 40644), (100, 40713), (102, 40731), (109, 40782), (112, 40794), (123, 40878), (131, 40944), (135, 40980), (138, 40989), (146, 41055), (150, 41079), (151, 41082), (153, 41097), (158, 41121), (162, 41136), (163, 41139), (168, 41166), (183, 41256), (197, 41331), (220, 41469), (221, 41472), (256, 41619), (260, 41631), (261, 41652), (268, 41706), (269, 41709), (270, 41718), (272, 41730), (278, 41772), (280, 41787), (291, 41889),

Gene: Darionha_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for Darionha_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: DeepSoil15_56 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for DeepSoil15_56:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Dewey_53 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Dewey_53:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Dillpickles_62 Start: 39756, Stop: 40904, Start Num: 49

Candidate Starts for Dillpickles_62:

(32, 39657), (36, 39702), (Start: 49 @39756 has 153 MA's), (77, 39867), (81, 39897), (118, 40152), (151, 40326), (154, 40347), (155, 40353), (161, 40377), (163, 40383), (172, 40446), (176, 40482), (181, 40503), (198, 40587), (202, 40635),

Gene: DingDing_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for DingDing_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616),

(163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Divya_44 Start: 31944, Stop: 32978, Start Num: 55

Candidate Starts for Divya_44:

(Start: 55 @31944 has 13 MA's), (74, 32028), (85, 32091), (99, 32187), (101, 32202), (106, 32229), (108, 32247), (109, 32262), (113, 32277), (119, 32328), (151, 32445), (161, 32496), (170, 32538), (180, 32598), (192, 32646), (206, 32718), (242, 32838), (243, 32841), (247, 32859), (250, 32874),

Gene: DobbysSock_47 Start: 35760, Stop: 36911, Start Num: 49

Candidate Starts for DobbysSock_47:

(32, 35649), (36, 35694), (Start: 49 @35760 has 153 MA's), (77, 35868), (81, 35898), (94, 35973), (118, 36153), (151, 36327), (154, 36348), (155, 36354), (161, 36378), (162, 36381), (163, 36384), (176, 36486), (179, 36495), (181, 36507), (198, 36588), (233, 36783), (249, 36843),

Gene: Dolores_56 Start: 37680, Stop: 38807, Start Num: 49

Candidate Starts for Dolores_56:

(32, 37581), (36, 37626), (Start: 49 @37680 has 153 MA's), (62, 37731), (65, 37749), (73, 37776), (77, 37794), (81, 37824), (94, 37899), (98, 37935), (118, 38079), (151, 38253), (154, 38274), (155, 38280), (163, 38310), (172, 38373), (198, 38487), (233, 38682),

Gene: Dorito_50 Start: 35405, Stop: 36556, Start Num: 49

Candidate Starts for Dorito_50:

(32, 35294), (36, 35339), (Start: 49 @35405 has 153 MA's), (77, 35513), (81, 35543), (94, 35618), (118, 35798), (120, 35804), (151, 35972), (154, 35993), (155, 35999), (161, 36023), (162, 36026), (163, 36029), (176, 36131), (179, 36140), (181, 36152), (198, 36233), (233, 36428),

Gene: DumpsterDude_56 Start: 42953, Stop: 44038, Start Num: 49

Candidate Starts for DumpsterDude_56:

(Start: 49 @42953 has 153 MA's), (65, 43025), (73, 43052), (77, 43070), (81, 43100), (102, 43205), (106, 43223), (109, 43256), (118, 43319), (151, 43493), (155, 43520), (161, 43544), (198, 43727), (202, 43775), (207, 43793), (233, 43922), (235, 43931), (249, 43970),

Gene: ECartman_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for ECartman_43:

(6, 32023), (15, 32395), (18, 32548), (29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: EMSquaredA_57 Start: 40371, Stop: 41510, Start Num: 49

Candidate Starts for EMSquaredA_57:

(14, 39750), (17, 39846), (25, 40086), (32, 40272), (36, 40317), (Start: 49 @40371 has 153 MA's), (77, 40479), (81, 40509), (118, 40764), (151, 40938), (154, 40959), (155, 40965), (161, 40989), (163, 40995), (172, 41058), (176, 41094), (181, 41115), (198, 41193),

Gene: Easley_52 Start: 36887, Stop: 37981, Start Num: 49

Candidate Starts for Easley_52:

(Start: 49 @36887 has 153 MA's), (65, 36956), (73, 36983), (77, 37001), (81, 37031), (106, 37154), (109, 37187), (110, 37190), (120, 37256), (121, 37259), (143, 37385), (151, 37424), (155, 37451), (198, 37658), (233, 37853),

Gene: Ebert_58 Start: 36343, Stop: 37491, Start Num: 49

Candidate Starts for Ebert_58:

(Start: 49 @36343 has 153 MA's), (77, 36451), (81, 36481), (118, 36736), (120, 36742), (147, 36892), (151, 36910), (154, 36931), (155, 36937), (161, 36961), (163, 36967), (172, 37030), (176, 37066), (181, 37087), (198, 37168),

Gene: EdnaMode_51 Start: 35533, Stop: 36681, Start Num: 49

Candidate Starts for EdnaMode_51:

(32, 35434), (36, 35479), (Start: 49 @35533 has 153 MA's), (77, 35644), (81, 35674), (118, 35929), (151, 36103), (154, 36124), (155, 36130), (161, 36154), (163, 36160), (172, 36223), (176, 36259), (181, 36280), (198, 36364), (202, 36412),

Gene: Egi03_55 Start: 41529, Stop: 42467, Start Num: 49

Candidate Starts for Egi03_55:

(Start: 49 @41529 has 153 MA's), (73, 41610), (77, 41628), (84, 41673), (85, 41676), (109, 41814), (118, 41877), (148, 41985), (151, 41997), (155, 42024), (158, 42036), (184, 42168), (210, 42288), (214, 42306), (223, 42357), (226, 42369), (241, 42414),

Gene: Ein37_56 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Ein37_56:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: EnalisNailo_54 Start: 40338, Stop: 41486, Start Num: 49

Candidate Starts for EnalisNailo_54:

(20, 39933), (29, 40137), (36, 40272), (Start: 49 @40338 has 153 MA's), (77, 40449), (81, 40479), (118, 40734), (120, 40740), (151, 40908), (154, 40929), (155, 40935), (161, 40959), (163, 40965), (172, 41028), (176, 41064), (181, 41085),

Gene: Eudoria_57 Start: 39712, Stop: 40860, Start Num: 49

Candidate Starts for Eudoria_57:

(32, 39613), (36, 39658), (Start: 49 @39712 has 153 MA's), (77, 39823), (81, 39853), (118, 40108), (151, 40282), (154, 40303), (155, 40309), (161, 40333), (163, 40339), (172, 40402), (176, 40438), (181, 40459), (198, 40543), (202, 40591),

Gene: Evamon_54 Start: 41774, Stop: 42724, Start Num: 49

Candidate Starts for Evamon_54:

(Start: 49 @41774 has 153 MA's), (73, 41867), (77, 41885), (81, 41915), (109, 42071), (112, 42083), (151, 42254), (184, 42425), (210, 42545), (214, 42563), (223, 42614), (226, 42626), (241, 42671),

Gene: Evanescce_55 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Evanescce_55:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Eyre_44 Start: 30889, Stop: 32133, Start Num: 45

Candidate Starts for Eyre_44:

(2, 29851), (5, 29893), (12, 30208), (20, 30484), (Start: 45 @30889 has 48 MA's), (Start: 49 @30910 has 153 MA's), (77, 31024), (81, 31054), (94, 31129), (96, 31153), (103, 31204), (118, 31309), (151, 31486), (154, 31507), (155, 31513), (161, 31537), (236, 31939), (246, 31963),

Gene: Farewell_59 Start: 40067, Stop: 41413, Start Num: 53

Candidate Starts for Farewell_59:

(Start: 53 @40067 has 1 MA's), (61, 40109), (71, 40151), (77, 40175), (78, 40181), (82, 40205), (85, 40223), (98, 40286), (100, 40298), (102, 40316), (109, 40367), (110, 40370), (114, 40400), (118, 40430), (120, 40436), (127, 40496), (132, 40511), (139, 40568), (146, 40622), (151, 40649), (155, 40676), (161, 40700), (260, 41138), (264, 41183), (266, 41213), (273, 41249), (282, 41309),

Gene: FlagStaff_43 Start: 34088, Stop: 35491, Start Num: 42

Candidate Starts for FlagStaff_43:

(Start: 42 @34088 has 29 MA's), (Start: 50 @34121 has 1 MA's), (61, 34166), (65, 34184), (87, 34277), (107, 34394), (109, 34418), (111, 34427), (118, 34481), (132, 34562), (134, 34583), (139, 34619), (142, 34655), (146, 34673), (151, 34700), (158, 34739), (161, 34751), (163, 34757), (260, 35195), (276, 35312), (279, 35339), (280, 35345), (282, 35354), (284, 35390), (287, 35414), (288, 35417),

Gene: Floral_58 Start: 42256, Stop: 43395, Start Num: 49

Candidate Starts for Floral_58:

(25, 41971), (32, 42157), (36, 42202), (Start: 49 @42256 has 153 MA's), (77, 42364), (81, 42394), (94, 42469), (118, 42649), (120, 42655), (151, 42823), (154, 42844), (155, 42850), (161, 42874), (163, 42880), (172, 42943), (176, 42979), (181, 43000), (198, 43078),

Gene: ForeverHowLong_43 Start: 33005, Stop: 34393, Start Num: 49

Candidate Starts for ForeverHowLong_43:

(29, 32795), (Start: 45 @32984 has 48 MA's), (Start: 49 @33005 has 153 MA's), (68, 33086), (71, 33098), (76, 33119), (77, 33122), (87, 33185), (96, 33233), (101, 33266), (107, 33302), (109, 33326), (118, 33389), (120, 33395), (139, 33527), (141, 33557), (146, 33581), (151, 33608), (152, 33611), (163, 33665), (168, 33692), (207, 33899), (260, 34097), (273, 34196), (292, 34352),

Gene: Forge_53 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Forge_53:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: FroggyToad_53 Start: 36278, Stop: 37378, Start Num: 49

Candidate Starts for FroggyToad_53:

(Start: 49 @36278 has 153 MA's), (65, 36350), (73, 36377), (77, 36395), (81, 36425), (85, 36443), (109, 36581), (120, 36650), (151, 36818), (155, 36845), (161, 36869), (189, 37019), (198, 37055),

Gene: Frokostdame_59 Start: 39496, Stop: 40542, Start Num: 55

Candidate Starts for Frokostdame_59:

(30, 39265), (33, 39352), (34, 39370), (44, 39451), (Start: 55 @39496 has 13 MA's), (63, 39544), (81, 39631), (96, 39721), (109, 39814), (115, 39850), (116, 39853), (119, 39880), (156, 40024), (159, 40036), (160, 40039), (201, 40207), (222, 40306), (228, 40312), (239, 40351), (243, 40369), (244, 40372), (250, 40408), (254, 40441),

Gene: Frosty24_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for Frosty24_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Fugax_58 Start: 42040, Stop: 42978, Start Num: 49

Candidate Starts for Fugax_58:

(Start: 49 @42040 has 153 MA's), (73, 42121), (77, 42139), (84, 42184), (85, 42187), (109, 42325), (118, 42388), (148, 42496), (151, 42508), (155, 42535), (158, 42547), (184, 42679), (210, 42799), (214, 42817), (223, 42868), (226, 42880), (241, 42925),

Gene: GUPitcher_51 Start: 34446, Stop: 35414, Start Num: 52

Candidate Starts for GUPitcher_51:

(Start: 52 @34446 has 2 MA's), (59, 34479), (70, 34524), (73, 34533), (101, 34677), (105, 34701), (106, 34704), (108, 34722), (109, 34737), (113, 34752), (117, 34779), (125, 34845), (151, 34920), (167, 34998), (169, 35007),

Gene: Gancho_55 Start: 39591, Stop: 41027, Start Num: 42

Candidate Starts for Gancho_55:

(Start: 42 @39591 has 29 MA's), (61, 39669), (65, 39690), (67, 39696), (72, 39714), (75, 39726), (77, 39735), (79, 39747), (81, 39765), (87, 39780), (88, 39783), (100, 39852), (102, 39870), (109, 39921), (123, 40017), (131, 40083), (135, 40119), (138, 40128), (146, 40194), (150, 40218), (151, 40221), (153, 40236), (158, 40260), (162, 40275), (163, 40278), (168, 40305), (183, 40395), (197, 40470), (220, 40596), (221, 40599), (256, 40746), (260, 40758), (261, 40779), (268, 40833), (269, 40836), (270, 40845), (272, 40857), (278, 40899), (280, 40914), (291, 41016),

Gene: GemG_54 Start: 35915, Stop: 37063, Start Num: 49

Candidate Starts for GemG_54:

(Start: 49 @35915 has 153 MA's), (77, 36023), (81, 36053), (118, 36308), (120, 36314), (147, 36464), (151, 36482), (154, 36503), (155, 36509), (161, 36533), (163, 36539), (172, 36602), (176, 36638), (181, 36659), (198, 36740),

Gene: Gezellig_54 Start: 41879, Stop: 42817, Start Num: 49

Candidate Starts for Gezellig_54:

(Start: 49 @41879 has 153 MA's), (73, 41960), (77, 41978), (84, 42023), (85, 42026), (109, 42164), (118, 42227), (148, 42335), (151, 42347), (155, 42374), (158, 42386), (184, 42518), (210, 42638), (214, 42656), (223, 42707), (226, 42719), (241, 42764),

Gene: Gideon_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Gideon_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Giles_53 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Giles_53:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639),

(183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Gizermo_54 Start: 35911, Stop: 37059, Start Num: 49

Candidate Starts for Gizermo_54:

(Start: 49 @35911 has 153 MA's), (77, 36019), (81, 36049), (118, 36304), (120, 36310), (147, 36460), (151, 36478), (154, 36499), (155, 36505), (161, 36529), (163, 36535), (172, 36598), (176, 36634), (181, 36655), (198, 36736),

Gene: GodSpeed_43 Start: 34191, Stop: 35585, Start Num: 42

Candidate Starts for GodSpeed_43:

(Start: 42 @34191 has 29 MA's), (Start: 50 @34218 has 1 MA's), (61, 34266), (87, 34377), (104, 34479), (107, 34494), (109, 34518), (118, 34581), (134, 34683), (139, 34719), (142, 34755), (144, 34761), (145, 34764), (146, 34773), (151, 34800), (158, 34839), (163, 34857), (185, 34992), (260, 35298), (276, 35415), (281, 35451), (285, 35499), (286, 35508), (288, 35520),

Gene: GoldDust_35 Start: 31181, Stop: 32251, Start Num: 55

Candidate Starts for GoldDust_35:

(Start: 55 @31181 has 13 MA's), (74, 31256), (101, 31430), (108, 31475), (109, 31490), (114, 31523), (151, 31673), (157, 31709), (161, 31724), (243, 32099),

Gene: GoldenAsh_43 Start: 32974, Stop: 34383, Start Num: 45

Candidate Starts for GoldenAsh_43:

(29, 32785), (Start: 45 @32974 has 48 MA's), (Start: 49 @32995 has 153 MA's), (68, 33076), (71, 33088), (76, 33109), (77, 33112), (87, 33175), (96, 33223), (101, 33256), (107, 33292), (109, 33316), (118, 33379), (120, 33385), (139, 33517), (141, 33547), (146, 33571), (151, 33598), (152, 33601), (163, 33655), (168, 33682), (207, 33889), (260, 34087), (273, 34186), (292, 34342),

Gene: Gomashi_43 Start: 32990, Stop: 34399, Start Num: 45

Candidate Starts for Gomashi_43:

(29, 32801), (Start: 45 @32990 has 48 MA's), (Start: 49 @33011 has 153 MA's), (68, 33092), (71, 33104), (76, 33125), (77, 33128), (87, 33191), (96, 33239), (101, 33272), (107, 33308), (109, 33332), (118, 33395), (120, 33401), (139, 33533), (141, 33563), (146, 33587), (151, 33614), (152, 33617), (163, 33671), (168, 33698), (207, 33905), (260, 34103), (273, 34202), (292, 34358),

Gene: Gooberta_35 Start: 31180, Stop: 32250, Start Num: 55

Candidate Starts for Gooberta_35:

(Start: 55 @31180 has 13 MA's), (74, 31255), (101, 31429), (108, 31474), (109, 31489), (114, 31522), (151, 31672), (157, 31708), (161, 31723), (243, 32098),

Gene: Gravaillia_54 Start: 39882, Stop: 41324, Start Num: 42

Candidate Starts for Gravaillia_54:

(19, 39504), (24, 39591), (Start: 42 @39882 has 29 MA's), (61, 39957), (65, 39978), (72, 40002), (77, 40023), (81, 40053), (87, 40068), (88, 40071), (100, 40140), (109, 40209), (123, 40305), (131, 40371), (135, 40407), (138, 40416), (146, 40482), (150, 40506), (151, 40509), (153, 40524), (158, 40548), (162, 40563), (163, 40566), (168, 40593), (173, 40650), (183, 40695), (220, 40902), (221, 40905), (256, 41043), (260, 41055), (261, 41076), (267, 41124), (268, 41130), (269, 41133), (270, 41142), (272, 41154), (278, 41196), (280, 41211), (286, 41271), (291, 41313),

Gene: Grizzly_43 Start: 32974, Stop: 34389, Start Num: 45

Candidate Starts for Grizzly_43:

(29, 32785), (Start: 45 @32974 has 48 MA's), (Start: 49 @32995 has 153 MA's), (68, 33076), (71, 33088), (76, 33109), (77, 33112), (87, 33175), (96, 33223), (101, 33256), (107, 33292), (109, 33316),

(118, 33379), (120, 33385), (139, 33517), (141, 33547), (146, 33571), (151, 33598), (152, 33601), (163, 33655), (168, 33682), (207, 33889), (260, 34093), (273, 34192), (292, 34348),

Gene: Gudmit_46 Start: 30435, Stop: 31343, Start Num: 49

Candidate Starts for Gudmit_46:

(20, 30033), (32, 30327), (36, 30372), (Start: 49 @30435 has 153 MA's), (58, 30453), (73, 30513), (77, 30531), (84, 30576), (97, 30627), (109, 30717), (114, 30750), (118, 30780), (148, 30888), (149, 30894), (151, 30900), (155, 30927), (158, 30939), (169, 30990), (172, 31008), (177, 31035), (210, 31173), (214, 31191), (225, 31251), (243, 31308),

Gene: HH92_55 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for HH92_55:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Hadrien_55 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Hadrien_55:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Hail_53 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Hail_53:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Haley23_54 Start: 35911, Stop: 37059, Start Num: 49

Candidate Starts for Haley23_54:

(Start: 49 @35911 has 153 MA's), (77, 36019), (81, 36049), (118, 36304), (120, 36310), (147, 36460), (151, 36478), (154, 36499), (155, 36505), (161, 36529), (163, 36535), (172, 36598), (176, 36634), (181, 36655), (198, 36736),

Gene: Halo_43 Start: 33005, Stop: 34393, Start Num: 49

Candidate Starts for Halo_43:

(29, 32795), (Start: 45 @32984 has 48 MA's), (Start: 49 @33005 has 153 MA's), (68, 33086), (71, 33098), (76, 33119), (77, 33122), (87, 33185), (96, 33233), (101, 33266), (107, 33302), (109, 33326), (118, 33389), (120, 33395), (139, 33527), (141, 33557), (146, 33581), (151, 33608), (152, 33611), (163, 33665), (168, 33692), (207, 33899), (260, 34097), (273, 34196), (292, 34352),

Gene: Halo3_55 Start: 42464, Stop: 43402, Start Num: 49

Candidate Starts for Halo3_55:

(Start: 49 @42464 has 153 MA's), (73, 42545), (77, 42563), (84, 42608), (85, 42611), (109, 42749), (118, 42812), (148, 42920), (151, 42932), (155, 42959), (158, 42971), (184, 43103), (210, 43223), (214, 43241), (223, 43292), (226, 43304), (241, 43349),

Gene: Herod_58 Start: 42170, Stop: 43321, Start Num: 49

Candidate Starts for Herod_58:

(Start: 49 @42170 has 153 MA's), (77, 42278), (81, 42308), (118, 42563), (151, 42737), (154, 42758), (161, 42788), (163, 42794), (176, 42893), (181, 42914), (198, 42998), (202, 43046), (204, 43055), (233, 43193),

Gene: Hirko_35 Start: 30939, Stop: 32009, Start Num: 55

Candidate Starts for Hirko_35:

(21, 30504), (23, 30555), (Start: 55 @30939 has 13 MA's), (74, 31017), (92, 31116), (101, 31191), (108, 31236), (109, 31251), (151, 31434), (157, 31470), (161, 31485), (169, 31521), (211, 31740), (243, 31860),

Gene: Hope_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for Hope_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Hortense_59 Start: 41999, Stop: 43018, Start Num: 49

Candidate Starts for Hortense_59:

(27, 41771), (35, 41936), (37, 41945), (41, 41957), (Start: 49 @41999 has 153 MA's), (73, 42083), (79, 42104), (89, 42149), (90, 42152), (97, 42200), (100, 42221), (108, 42275), (109, 42290), (122, 42353), (128, 42392), (151, 42473), (164, 42536), (198, 42698), (233, 42893),

Gene: Hotshotbaby7_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Hotshotbaby7_43:

(6, 32023), (15, 32395), (18, 32548), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Howe_59 Start: 41999, Stop: 43018, Start Num: 49

Candidate Starts for Howe_59:

(27, 41771), (35, 41936), (37, 41945), (41, 41957), (Start: 49 @41999 has 153 MA's), (73, 42083), (79, 42104), (89, 42149), (90, 42152), (97, 42200), (100, 42221), (108, 42275), (109, 42290), (122, 42353), (128, 42392), (151, 42473), (164, 42536), (198, 42698), (233, 42893),

Gene: Hugley_56 Start: 42150, Stop: 43301, Start Num: 49

Candidate Starts for Hugley_56:

(Start: 49 @42150 has 153 MA's), (77, 42258), (81, 42288), (118, 42543), (151, 42717), (154, 42738), (161, 42768), (163, 42774), (176, 42873), (181, 42894), (198, 42978), (202, 43026), (204, 43035), (233, 43173),

Gene: Hyzer_66 Start: 44114, Stop: 45265, Start Num: 49

Candidate Starts for Hyzer_66:

(25, 43829), (32, 44015), (36, 44060), (Start: 49 @44114 has 153 MA's), (77, 44222), (81, 44252), (118, 44507), (120, 44513), (151, 44681), (154, 44702), (155, 44708), (161, 44732), (163, 44738),

(176, 44837), (181, 44858), (213, 45044), (241, 45155),

Gene: Invetra_56 Start: 38492, Stop: 39643, Start Num: 49

Candidate Starts for Invetra_56:

(32, 38381), (36, 38426), (Start: 49 @38492 has 153 MA's), (77, 38600), (81, 38630), (94, 38705), (118, 38885), (151, 39059), (154, 39080), (155, 39086), (161, 39110), (162, 39113), (163, 39116), (176, 39218), (179, 39227), (181, 39239), (198, 39320), (233, 39515), (249, 39575),

Gene: JCole_51 Start: 34606, Stop: 35700, Start Num: 49

Candidate Starts for JCole_51:

(Start: 49 @34606 has 153 MA's), (62, 34657), (65, 34675), (73, 34702), (77, 34720), (81, 34750), (102, 34855), (109, 34906), (120, 34975), (121, 34978), (151, 35143), (155, 35170), (161, 35194), (198, 35383), (231, 35572),

Gene: Jablanski_60 Start: 43190, Stop: 44338, Start Num: 49

Candidate Starts for Jablanski_60:

(Start: 49 @43190 has 153 MA's), (77, 43298), (81, 43328), (118, 43583), (120, 43589), (151, 43757), (154, 43778), (155, 43784), (161, 43808), (163, 43814), (172, 43877), (176, 43913), (181, 43934), (198, 44018), (202, 44066),

Gene: Jalleen_54 Start: 35550, Stop: 36698, Start Num: 49

Candidate Starts for Jalleen_54:

(Start: 49 @35550 has 153 MA's), (77, 35658), (81, 35688), (118, 35943), (120, 35949), (147, 36099), (151, 36117), (154, 36138), (155, 36144), (161, 36168), (163, 36174), (172, 36237), (176, 36273), (181, 36294), (198, 36375),

Gene: Jane_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for Jane_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Jeilious_43 Start: 33009, Stop: 34397, Start Num: 49

Candidate Starts for Jeilious_43:

(29, 32799), (Start: 45 @32988 has 48 MA's), (Start: 49 @33009 has 153 MA's), (68, 33090), (71, 33102), (76, 33123), (77, 33126), (87, 33189), (96, 33237), (101, 33270), (107, 33306), (109, 33330), (118, 33393), (120, 33399), (139, 33531), (141, 33561), (146, 33585), (151, 33612), (152, 33615), (163, 33669), (168, 33696), (207, 33903), (260, 34101), (273, 34200), (292, 34356),

Gene: Jinkies_41 Start: 32040, Stop: 33080, Start Num: 55

Candidate Starts for Jinkies_41:

(34, 31914), (Start: 55 @32040 has 13 MA's), (74, 32124), (85, 32187), (101, 32298), (106, 32325), (108, 32343), (109, 32358), (113, 32373), (132, 32505), (151, 32541), (242, 32940), (243, 32943), (247, 32961), (257, 33030),

Gene: Jolene_43 Start: 32989, Stop: 34413, Start Num: 45

Candidate Starts for Jolene_43:

(18, 32548), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (161, 33664), (163, 33670), (168, 33697), (194, 33850), (207, 33913), (260, 34117), (273, 34216),

Gene: Jolie2_43 Start: 33530, Stop: 34966, Start Num: 48

Candidate Starts for Jolie2_43:

(7, 32540), (15, 32903), (32, 33401), (48, 33530), (61, 33587), (68, 33620), (71, 33632), (83, 33689), (87, 33701), (102, 33791), (104, 33803), (107, 33818), (109, 33842), (111, 33851), (118, 33905), (136, 34016), (146, 34091), (151, 34118), (155, 34145), (161, 34169), (163, 34175), (207, 34415), (235, 34532), (260, 34670), (273, 34769), (276, 34787), (279, 34814), (284, 34865), (286, 34880),

Gene: Jonghyun_42 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Jonghyun_42:

(6, 32023), (15, 32395), (18, 32548), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: JorRay_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for JorRay_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: KappaFarmDelta_60 Start: 38335, Stop: 39300, Start Num: 49

Candidate Starts for KappaFarmDelta_60:

(Start: 49 @38335 has 153 MA's), (73, 38422), (77, 38440), (80, 38467), (81, 38470), (102, 38575), (103, 38584), (109, 38626), (151, 38809), (155, 38836), (161, 38860), (173, 38926), (178, 38953), (245, 39238),

Gene: Kareem_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Kareem_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Kasen3_43 Start: 32975, Stop: 34384, Start Num: 45

Candidate Starts for Kasen3_43:

(29, 32786), (Start: 45 @32975 has 48 MA's), (Start: 49 @32996 has 153 MA's), (68, 33077), (71, 33089), (76, 33110), (77, 33113), (87, 33176), (96, 33224), (101, 33257), (107, 33293), (109, 33317), (118, 33380), (120, 33386), (139, 33518), (141, 33548), (146, 33572), (151, 33599), (152, 33602), (163, 33656), (168, 33683), (207, 33890), (260, 34088), (273, 34187), (292, 34343),

Gene: KimmyK_56 Start: 42482, Stop: 43420, Start Num: 49

Candidate Starts for KimmyK_56:

(Start: 49 @42482 has 153 MA's), (73, 42563), (77, 42581), (84, 42626), (85, 42629), (109, 42767), (118, 42830), (148, 42938), (151, 42950), (155, 42977), (158, 42989), (184, 43121), (210, 43241), (214, 43259), (223, 43310), (226, 43322), (241, 43367),

Gene: Kinbote_55 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Kinbote_55:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495),

(151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Kita_58 Start: 39721, Stop: 40869, Start Num: 49

Candidate Starts for Kita_58:

(32, 39622), (36, 39667), (Start: 49 @39721 has 153 MA's), (77, 39832), (81, 39862), (118, 40117), (151, 40291), (154, 40312), (155, 40318), (161, 40342), (163, 40348), (172, 40411), (176, 40447), (181, 40468), (198, 40552), (202, 40600),

Gene: Kukla_53 Start: 33677, Stop: 34645, Start Num: 52

Candidate Starts for Kukla_53:

(Start: 52 @33677 has 2 MA's), (59, 33710), (70, 33755), (73, 33764), (101, 33908), (105, 33932), (106, 33935), (108, 33953), (109, 33968), (113, 33983), (117, 34010), (151, 34151), (161, 34202), (167, 34229), (169, 34238), (259, 34634),

Gene: Lamberg_50 Start: 34420, Stop: 35568, Start Num: 49

Candidate Starts for Lamberg_50:

(Start: 49 @34420 has 153 MA's), (77, 34528), (81, 34558), (118, 34813), (120, 34819), (147, 34969), (151, 34987), (154, 35008), (155, 35014), (161, 35038), (163, 35044), (172, 35107), (176, 35143), (181, 35164), (198, 35245),

Gene: Lemuria_45 Start: 34871, Stop: 36319, Start Num: 49

Candidate Starts for Lemuria_45:

(4, 33845), (13, 34187), (15, 34241), (16, 34295), (22, 34469), (31, 34721), (43, 34841), (Start: 49 @34871 has 153 MA's), (61, 34931), (68, 34964), (71, 34976), (83, 35033), (87, 35045), (104, 35147), (107, 35162), (109, 35186), (111, 35195), (138, 35366), (146, 35435), (151, 35462), (161, 35513), (163, 35519), (168, 35546), (182, 35651), (207, 35777), (242, 35918), (260, 36023), (273, 36122), (282, 36182), (283, 36191), (284, 36218), (286, 36233),

Gene: Liefie_43 Start: 33008, Stop: 34411, Start Num: 49

Candidate Starts for Liefie_43:

(6, 32021), (15, 32393), (18, 32546), (Start: 45 @32987 has 48 MA's), (Start: 49 @33008 has 153 MA's), (68, 33089), (71, 33101), (76, 33122), (77, 33125), (87, 33188), (96, 33236), (101, 33269), (104, 33290), (107, 33305), (109, 33329), (118, 33392), (139, 33530), (141, 33560), (146, 33584), (151, 33611), (152, 33614), (161, 33662), (163, 33668), (168, 33695), (194, 33848), (207, 33911), (260, 34115), (273, 34214),

Gene: LilHazelnut_56 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for LilHazelnut_56:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Lilas_56 Start: 42094, Stop: 43239, Start Num: 49

Candidate Starts for Lilas_56:

(3, 41095), (14, 41473), (17, 41569), (25, 41809), (32, 41995), (36, 42040), (Start: 49 @42094 has 153 MA's), (77, 42202), (81, 42232), (118, 42487), (151, 42661), (154, 42682), (155, 42688), (161, 42712), (163, 42718), (172, 42781), (176, 42817), (181, 42838),

Gene: LonelyBoi_56 Start: 42240, Stop: 43370, Start Num: 49

Candidate Starts for LonelyBoi_56:

(32, 42141), (36, 42186), (Start: 49 @42240 has 153 MA's), (65, 42315), (73, 42342), (77, 42360), (81, 42390), (94, 42465), (98, 42501), (120, 42651), (121, 42654), (151, 42819), (154, 42840), (155, 42846), (161, 42870), (163, 42876), (181, 42984), (190, 43020), (202, 43101),

Gene: LordFarquaad_54 Start: 36826, Stop: 37971, Start Num: 49

Candidate Starts for LordFarquaad_54:

(32, 36727), (36, 36772), (Start: 49 @36826 has 153 MA's), (77, 36934), (81, 36964), (118, 37219), (120, 37225), (133, 37306), (151, 37393), (154, 37414), (155, 37420), (161, 37444), (163, 37450), (172, 37513), (176, 37549), (181, 37570), (198, 37651), (202, 37699), (204, 37708),

Gene: LouisV14_45 Start: 35254, Stop: 36663, Start Num: 45

Candidate Starts for LouisV14_45:

(29, 35065), (Start: 45 @35254 has 48 MA's), (Start: 49 @35275 has 153 MA's), (68, 35356), (71, 35368), (76, 35389), (77, 35392), (87, 35455), (96, 35503), (101, 35536), (107, 35572), (109, 35596), (118, 35659), (120, 35665), (139, 35797), (141, 35827), (146, 35851), (151, 35878), (152, 35881), (163, 35935), (168, 35962), (207, 36169), (260, 36367), (273, 36466), (292, 36622),

Gene: Luke_55 Start: 39823, Stop: 41271, Start Num: 42

Candidate Starts for Luke_55:

(Start: 42 @39823 has 29 MA's), (61, 39901), (65, 39922), (67, 39928), (72, 39946), (75, 39958), (77, 39967), (79, 39979), (81, 39997), (87, 40012), (88, 40015), (100, 40084), (102, 40102), (109, 40153), (112, 40165), (123, 40249), (131, 40315), (135, 40351), (138, 40360), (146, 40426), (150, 40450), (151, 40453), (153, 40468), (158, 40492), (162, 40507), (163, 40510), (168, 40537), (173, 40594), (183, 40639), (220, 40840), (221, 40843), (256, 40990), (260, 41002), (261, 41023), (268, 41077), (269, 41080), (270, 41089), (272, 41101), (278, 41143), (280, 41158), (291, 41260),

Gene: Luna22_53 Start: 39852, Stop: 41300, Start Num: 42

Candidate Starts for Luna22_53:

(Start: 42 @39852 has 29 MA's), (61, 39930), (65, 39951), (67, 39957), (72, 39975), (75, 39987), (77, 39996), (79, 40008), (81, 40026), (87, 40041), (88, 40044), (100, 40113), (102, 40131), (109, 40182), (112, 40194), (123, 40278), (131, 40344), (135, 40380), (138, 40389), (146, 40455), (150, 40479), (151, 40482), (153, 40497), (158, 40521), (162, 40536), (163, 40539), (168, 40566), (173, 40623), (183, 40668), (220, 40869), (221, 40872), (256, 41019), (260, 41031), (261, 41052), (268, 41106), (269, 41109), (270, 41118), (272, 41130), (278, 41172), (280, 41187), (291, 41289),

Gene: Lysidious_61 Start: 40833, Stop: 41798, Start Num: 49

Candidate Starts for Lysidious_61:

(28, 40620), (37, 40770), (Start: 49 @40833 has 153 MA's), (73, 40920), (77, 40938), (80, 40965), (81, 40968), (102, 41073), (103, 41082), (109, 41124), (151, 41307), (155, 41334), (161, 41358), (162, 41361), (173, 41424), (178, 41451), (233, 41703), (245, 41736),

Gene: MOOREtheMARYer_45 Start: 34546, Stop: 35991, Start Num: 46

Candidate Starts for MOOREtheMARYer_45:

(15, 33946), (16, 34000), (Start: 46 @34546 has 2 MA's), (51, 34561), (61, 34606), (73, 34654), (83, 34705), (100, 34789), (103, 34816), (107, 34834), (109, 34858), (113, 34873), (114, 34891), (118, 34921), (132, 35002), (139, 35059), (142, 35095), (146, 35113), (151, 35140), (158, 35179), (161, 35191), (163, 35197), (175, 35281), (185, 35329), (260, 35698), (287, 35917), (288, 35920), (289, 35932),

Gene: MZKinsey_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for MZKinsey_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Madavieve_55 Start: 40166, Stop: 41290, Start Num: 49

Candidate Starts for Madavieve_55:

(32, 40067), (36, 40112), (Start: 49 @40166 has 153 MA's), (65, 40241), (73, 40268), (77, 40286), (81, 40316), (94, 40391), (98, 40427), (120, 40577), (121, 40580), (151, 40745), (154, 40766), (155, 40772), (161, 40796), (163, 40802), (172, 40862), (202, 41021),

Gene: Madeline_58 Start: 41610, Stop: 42737, Start Num: 49

Candidate Starts for Madeline_58:

(25, 41325), (32, 41511), (36, 41556), (Start: 49 @41610 has 153 MA's), (65, 41685), (73, 41712), (77, 41730), (81, 41760), (85, 41778), (98, 41871), (120, 42021), (121, 42024), (151, 42189), (154, 42210), (155, 42216), (161, 42240), (163, 42246), (172, 42306), (181, 42354), (198, 42420), (202, 42468), (219, 42546),

Gene: MakCheese_64 Start: 42568, Stop: 43701, Start Num: 49

Candidate Starts for MakCheese_64:

(Start: 49 @42568 has 153 MA's), (56, 42592), (65, 42640), (73, 42667), (77, 42685), (81, 42715), (94, 42790), (98, 42826), (118, 42970), (151, 43144), (154, 43165), (155, 43171), (163, 43201), (172, 43264), (198, 43378), (233, 43573),

Gene: Malibo_60 Start: 41295, Stop: 42374, Start Num: 49

Candidate Starts for Malibo_60:

(Start: 49 @41295 has 153 MA's), (65, 41367), (77, 41412), (81, 41442), (106, 41565), (109, 41598), (118, 41661), (120, 41667), (132, 41742), (151, 41835), (155, 41862), (161, 41886), (233, 42264), (235, 42273), (249, 42306),

Gene: Maliketh_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Maliketh_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Manasvini_58 Start: 39736, Stop: 40884, Start Num: 49

Candidate Starts for Manasvini_58:

(32, 39637), (36, 39682), (Start: 49 @39736 has 153 MA's), (77, 39847), (81, 39877), (118, 40132), (151, 40306), (154, 40327), (155, 40333), (161, 40357), (163, 40363), (172, 40426), (176, 40462), (181, 40483), (198, 40567), (202, 40615),

Gene: Maridalia_61 Start: 40956, Stop: 42086, Start Num: 49

Candidate Starts for Maridalia_61:

(32, 40857), (36, 40902), (Start: 49 @40956 has 153 MA's), (65, 41031), (73, 41058), (77, 41076), (81, 41106), (89, 41142), (94, 41181), (98, 41217), (120, 41367), (121, 41370), (151, 41535), (154, 41556), (155, 41562), (161, 41586), (163, 41592), (172, 41652), (181, 41700), (190, 41736), (202, 41817), (204, 41826),

Gene: Marmie_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Marmie_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Marteena_56 Start: 40371, Stop: 41510, Start Num: 49

Candidate Starts for Marteena_56:

(14, 39750), (17, 39846), (25, 40086), (32, 40272), (36, 40317), (Start: 49 @40371 has 153 MA's), (77, 40479), (81, 40509), (118, 40764), (151, 40938), (154, 40959), (155, 40965), (161, 40989), (163, 40995), (172, 41058), (176, 41094), (181, 41115), (198, 41193),

Gene: Maruru_47 Start: 37039, Stop: 38160, Start Num: 55

Candidate Starts for Maruru_47:

(39, 36946), (Start: 55 @37039 has 13 MA's), (77, 37150), (81, 37180), (95, 37237), (97, 37246), (100, 37267), (108, 37321), (113, 37351), (116, 37375), (119, 37402), (151, 37522), (163, 37579), (165, 37588), (171, 37618), (191, 37738), (209, 37840), (218, 37882), (229, 37942), (230, 37945), (252, 38041), (258, 38080), (265, 38110),

Gene: Matteo_47 Start: 33447, Stop: 34499, Start Num: 49

Candidate Starts for Matteo_47:

(29, 33246), (36, 33381), (Start: 49 @33447 has 153 MA's), (74, 33543), (89, 33621), (90, 33624), (102, 33711), (109, 33762), (122, 33825), (130, 33870), (151, 33945), (166, 34017), (198, 34182), (231, 34371),

Gene: Mcklovin_54 Start: 42931, Stop: 44091, Start Num: 49

Candidate Starts for Mcklovin_54:

(32, 42820), (36, 42865), (Start: 49 @42931 has 153 MA's), (77, 43039), (81, 43069), (94, 43144), (118, 43324), (151, 43498), (154, 43519), (161, 43549), (162, 43552), (163, 43555), (176, 43657), (179, 43666), (181, 43678), (198, 43759), (233, 43954),

Gene: Mellie_58 Start: 38843, Stop: 39808, Start Num: 49

Candidate Starts for Mellie_58:

(26, 38582), (28, 38630), (37, 38780), (Start: 49 @38843 has 153 MA's), (73, 38930), (77, 38948), (80, 38975), (81, 38978), (102, 39083), (103, 39092), (109, 39134), (151, 39317), (155, 39344), (161, 39368), (173, 39434), (178, 39461), (210, 39605), (245, 39746),

Gene: Mercurio_46 Start: 35410, Stop: 36855, Start Num: 49

Candidate Starts for Mercurio_46:

(1, 34264), (6, 34408), (13, 34726), (15, 34780), (16, 34834), (22, 35008), (32, 35278), (43, 35380), (Start: 49 @35410 has 153 MA's), (68, 35497), (71, 35509), (83, 35566), (87, 35578), (104, 35680), (107, 35695), (109, 35719), (111, 35728), (118, 35782), (134, 35884), (139, 35920), (146, 35974), (151, 36001), (155, 36028), (161, 36052), (163, 36058), (207, 36322), (260, 36559), (262, 36592), (273, 36658), (284, 36754), (286, 36769),

Gene: MichaelScott_55 Start: 38395, Stop: 39543, Start Num: 49

Candidate Starts for MichaelScott_55:

(32, 38284), (36, 38329), (Start: 49 @38395 has 153 MA's), (77, 38503), (81, 38533), (94, 38608), (118, 38788), (151, 38962), (154, 38983), (155, 38989), (161, 39013), (162, 39016), (163, 39019), (176, 39121), (179, 39130), (181, 39142), (198, 39223), (233, 39418),

Gene: Mocha12_54 Start: 35911, Stop: 37059, Start Num: 49

Candidate Starts for Mocha12_54:

(Start: 49 @35911 has 153 MA's), (77, 36019), (81, 36049), (118, 36304), (120, 36310), (147, 36460), (151, 36478), (154, 36499), (155, 36505), (161, 36529), (163, 36535), (172, 36598), (176, 36634), (181, 36655), (198, 36736),

Gene: Mowgli_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Mowgli_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Mufasa8_47 Start: 35178, Stop: 36302, Start Num: 55

Candidate Starts for Mufasa8_47:

(Start: 55 @35178 has 13 MA's), (77, 35280), (78, 35286), (81, 35310), (85, 35328), (95, 35367), (97, 35376), (100, 35397), (108, 35451), (113, 35481), (117, 35508), (119, 35532), (126, 35580), (151, 35652), (158, 35691), (163, 35709), (165, 35718), (169, 35739), (171, 35748), (177, 35808), (188, 35847), (193, 35877), (205, 35955), (206, 35958), (209, 35973), (212, 35991), (216, 36003), (220, 36027), (224, 36042), (229, 36069), (232, 36081), (234, 36084), (258, 36207), (265, 36258),

Gene: Murp_59 Start: 41608, Stop: 42573, Start Num: 49

Candidate Starts for Murp_59:

(Start: 49 @41608 has 153 MA's), (73, 41695), (77, 41713), (80, 41740), (81, 41743), (102, 41848), (103, 41857), (109, 41899), (111, 41908), (151, 42082), (155, 42109), (161, 42133), (162, 42136), (173, 42199), (178, 42226), (245, 42511),

Gene: Music_35 Start: 31061, Stop: 32134, Start Num: 55

Candidate Starts for Music_35:

(21, 30623), (Start: 55 @31061 has 13 MA's), (74, 31133), (101, 31307), (108, 31352), (109, 31367), (151, 31550), (157, 31586), (243, 31976),

Gene: Neobush_57 Start: 39706, Stop: 40854, Start Num: 49

Candidate Starts for Neobush_57:

(32, 39607), (36, 39652), (Start: 49 @39706 has 153 MA's), (77, 39817), (81, 39847), (118, 40102), (151, 40276), (154, 40297), (155, 40303), (161, 40327), (163, 40333), (172, 40396), (176, 40432), (181, 40453), (198, 40537), (202, 40585),

Gene: Neoh_43 Start: 32981, Stop: 34390, Start Num: 45

Candidate Starts for Neoh_43:

(29, 32792), (Start: 45 @32981 has 48 MA's), (Start: 49 @33002 has 153 MA's), (68, 33083), (71, 33095), (76, 33116), (77, 33119), (87, 33182), (96, 33230), (101, 33263), (107, 33299), (109, 33323), (118, 33386), (120, 33392), (139, 33524), (141, 33554), (146, 33578), (151, 33605), (152, 33608), (163, 33662), (168, 33689), (207, 33896), (260, 34094), (273, 34193), (292, 34349),

Gene: Nettuno_50 Start: 34420, Stop: 35568, Start Num: 49

Candidate Starts for Nettuno_50:

(Start: 49 @34420 has 153 MA's), (77, 34528), (81, 34558), (118, 34813), (120, 34819), (147, 34969), (151, 34987), (154, 35008), (155, 35014), (161, 35038), (163, 35044), (172, 35107), (176, 35143), (181, 35164), (198, 35245),

Gene: NovoPizza_56 Start: 40507, Stop: 42033, Start Num: 38

Candidate Starts for NovoPizza_56:

(Start: 38 @40507 has 1 MA's), (47, 40555), (Start: 55 @40594 has 13 MA's), (71, 40681), (76, 40702), (77, 40705), (81, 40735), (88, 40753), (99, 40816), (100, 40822), (101, 40831), (106, 40858), (109,

40891), (129, 41011), (134, 41041), (137, 41059), (146, 41134), (151, 41161), (161, 41212), (163, 41218), (164, 41224), (195, 41416), (196, 41419), (221, 41560), (227, 41587), (228, 41590), (233, 41611), (238, 41632), (239, 41635), (255, 41743), (256, 41749), (261, 41782), (263, 41797), (275, 41875), (276, 41887), (277, 41896), (282, 41929), (286, 41980), (290, 42007), (291, 42022),

Gene: Nubi_55 Start: 41879, Stop: 42829, Start Num: 49

Candidate Starts for Nubi_55:

(Start: 49 @41879 has 153 MA's), (73, 41972), (77, 41990), (81, 42020), (109, 42176), (112, 42188), (151, 42359), (155, 42386), (184, 42530), (210, 42650), (214, 42668), (223, 42719), (226, 42731), (241, 42776),

Gene: OBUpride_56 Start: 39882, Stop: 41312, Start Num: 42

Candidate Starts for OBUpride_56:

(19, 39504), (24, 39591), (Start: 42 @39882 has 29 MA's), (61, 39957), (65, 39978), (72, 40002), (77, 40023), (81, 40053), (87, 40068), (88, 40071), (100, 40140), (109, 40209), (123, 40305), (131, 40371), (135, 40407), (138, 40416), (146, 40482), (150, 40506), (151, 40509), (153, 40524), (158, 40548), (162, 40563), (163, 40566), (168, 40593), (173, 40650), (183, 40695), (220, 40890), (221, 40893), (256, 41031), (260, 41043), (261, 41064), (267, 41112), (268, 41118), (269, 41121), (270, 41130), (272, 41142), (278, 41184), (280, 41199), (286, 41259), (291, 41301),

Gene: OctaviousRex_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for OctaviousRex_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Ohgeesy_57 Start: 40387, Stop: 41541, Start Num: 49

Candidate Starts for Ohgeesy_57:

(32, 40288), (36, 40333), (Start: 49 @40387 has 153 MA's), (77, 40495), (81, 40525), (118, 40780), (120, 40786), (151, 40954), (154, 40975), (155, 40981), (161, 41005), (163, 41011), (172, 41074), (176, 41110), (181, 41131), (202, 41266), (204, 41275),

Gene: Olga_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Olga_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Oregano_58 Start: 38155, Stop: 39303, Start Num: 49

Candidate Starts for Oregano_58:

(32, 38044), (36, 38089), (Start: 49 @38155 has 153 MA's), (77, 38263), (81, 38293), (94, 38368), (118, 38548), (151, 38722), (154, 38743), (155, 38749), (161, 38773), (162, 38776), (163, 38779), (176, 38881), (179, 38890), (181, 38902), (198, 38983), (233, 39178),

Gene: Orkz_44 Start: 30197, Stop: 31264, Start Num: 55

Candidate Starts for Orkz_44:

(40, 30110), (Start: 55 @30197 has 13 MA's), (74, 30287), (85, 30350), (86, 30362), (101, 30461), (108, 30506), (109, 30521), (111, 30530), (113, 30536), (119, 30587), (151, 30704), (161, 30755), (170, 30797), (192, 30908), (240, 31112), (243, 31127),

Gene: Pace1224_43 Start: 34121, Stop: 35515, Start Num: 50

Candidate Starts for Pace1224_43:

(Start: 42 @34088 has 29 MA's), (Start: 50 @34121 has 1 MA's), (61, 34169), (65, 34187), (87, 34280), (102, 34370), (107, 34397), (109, 34421), (118, 34484), (132, 34565), (134, 34586), (139, 34622), (142, 34658), (146, 34676), (151, 34703), (158, 34742), (161, 34754), (163, 34760), (185, 34892), (260, 35222), (274, 35324), (276, 35339), (285, 35423), (287, 35441), (288, 35444),

Gene: Paito_44 Start: 33230, Stop: 34675, Start Num: 45

Candidate Starts for Paito_44:

(11, 32375), (15, 32633), (29, 33041), (Start: 45 @33230 has 48 MA's), (Start: 49 @33251 has 153 MA's), (68, 33332), (71, 33344), (76, 33365), (77, 33368), (87, 33431), (96, 33479), (101, 33512), (107, 33548), (109, 33572), (118, 33635), (139, 33773), (141, 33803), (146, 33827), (151, 33854), (152, 33857), (161, 33905), (163, 33911), (168, 33938), (207, 34145), (237, 34268), (260, 34376),

Gene: PantheRoc_60 Start: 40974, Stop: 42104, Start Num: 49

Candidate Starts for PantheRoc_60:

(25, 40689), (32, 40875), (36, 40920), (Start: 49 @40974 has 153 MA's), (65, 41049), (73, 41076), (77, 41094), (81, 41124), (85, 41142), (98, 41235), (120, 41385), (121, 41388), (151, 41553), (154, 41574), (155, 41580), (161, 41604), (163, 41610), (172, 41670), (181, 41718), (198, 41784), (202, 41832), (204, 41841), (220, 41922),

Gene: Peeb_43 Start: 32974, Stop: 34389, Start Num: 45

Candidate Starts for Peeb_43:

(29, 32785), (Start: 45 @32974 has 48 MA's), (Start: 49 @32995 has 153 MA's), (68, 33076), (71, 33088), (76, 33109), (77, 33112), (87, 33175), (96, 33223), (101, 33256), (107, 33292), (109, 33316), (118, 33379), (120, 33385), (139, 33517), (141, 33547), (146, 33571), (151, 33598), (152, 33601), (163, 33655), (168, 33682), (207, 33889), (260, 34093), (273, 34192), (292, 34348),

Gene: Periodt_43 Start: 32980, Stop: 34404, Start Num: 45

Candidate Starts for Periodt_43:

(6, 32014), (15, 32386), (18, 32539), (Start: 45 @32980 has 48 MA's), (Start: 49 @33001 has 153 MA's), (68, 33082), (71, 33094), (76, 33115), (77, 33118), (87, 33181), (96, 33229), (101, 33262), (107, 33298), (109, 33322), (118, 33385), (139, 33523), (141, 33553), (146, 33577), (151, 33604), (152, 33607), (161, 33655), (163, 33661), (168, 33688), (194, 33841), (207, 33904), (260, 34108), (273, 34207),

Gene: PetriParty_55 Start: 33921, Stop: 34889, Start Num: 52

Candidate Starts for PetriParty_55:

(Start: 52 @33921 has 2 MA's), (59, 33954), (70, 33999), (73, 34008), (101, 34152), (105, 34176), (106, 34179), (108, 34197), (109, 34212), (113, 34227), (119, 34278), (151, 34395), (161, 34446), (167, 34473), (259, 34878),

Gene: Phish_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for Phish_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Phloodle_43 Start: 32989, Stop: 34413, Start Num: 45

Candidate Starts for Phloodle_43:

(6, 32023), (15, 32395), (18, 32548), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152,

33616), (161, 33664), (163, 33670), (168, 33697), (194, 33850), (207, 33913), (260, 34117), (273, 34216),

Gene: Phlop_54 Start: 41954, Stop: 42892, Start Num: 49

Candidate Starts for Phlop_54:

(Start: 49 @41954 has 153 MA's), (73, 42035), (77, 42053), (84, 42098), (85, 42101), (109, 42239), (118, 42302), (148, 42410), (151, 42422), (155, 42449), (158, 42461), (184, 42593), (210, 42713), (214, 42731), (223, 42782), (226, 42794), (241, 42839),

Gene: Phreak_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for Phreak_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: PhriskyACE_54 Start: 38287, Stop: 39378, Start Num: 49

Candidate Starts for PhriskyACE_54:

(Start: 49 @38287 has 153 MA's), (65, 38356), (73, 38383), (77, 38401), (81, 38431), (106, 38554), (109, 38587), (110, 38590), (120, 38656), (121, 38659), (140, 38767), (146, 38797), (151, 38824), (155, 38851), (161, 38875), (198, 39058), (228, 39229), (233, 39253),

Gene: Pickett_50 Start: 34009, Stop: 35157, Start Num: 49

Candidate Starts for Pickett_50:

(32, 33910), (36, 33955), (Start: 49 @34009 has 153 MA's), (77, 34120), (81, 34150), (118, 34405), (151, 34579), (154, 34600), (155, 34606), (161, 34630), (163, 34636), (172, 34699), (176, 34735), (181, 34756), (198, 34840), (202, 34888),

Gene: PinkCoffee_57 Start: 42057, Stop: 42995, Start Num: 49

Candidate Starts for PinkCoffee_57:

(Start: 49 @42057 has 153 MA's), (73, 42138), (77, 42156), (84, 42201), (85, 42204), (109, 42342), (118, 42405), (148, 42513), (151, 42525), (155, 42552), (158, 42564), (184, 42696), (210, 42816), (214, 42834), (223, 42885), (226, 42897), (241, 42942),

Gene: PinkYoshi_43 Start: 33001, Stop: 34389, Start Num: 49

Candidate Starts for PinkYoshi_43:

(29, 32791), (Start: 45 @32980 has 48 MA's), (Start: 49 @33001 has 153 MA's), (68, 33082), (71, 33094), (76, 33115), (77, 33118), (87, 33181), (96, 33229), (101, 33262), (107, 33298), (109, 33322), (118, 33385), (120, 33391), (139, 33523), (141, 33553), (146, 33577), (151, 33604), (152, 33607), (163, 33661), (168, 33688), (207, 33895), (260, 34093), (273, 34192), (292, 34348),

Gene: Pinnie_43 Start: 34270, Stop: 35709, Start Num: 49

Candidate Starts for Pinnie_43:

(Start: 49 @34270 has 153 MA's), (61, 34324), (71, 34366), (73, 34372), (100, 34507), (107, 34552), (109, 34576), (114, 34609), (118, 34639), (124, 34678), (132, 34720), (139, 34777), (142, 34813), (146, 34831), (151, 34858), (158, 34897), (161, 34909), (163, 34915), (175, 34999), (182, 35029), (185, 35047), (260, 35416), (276, 35533), (282, 35575), (288, 35638), (289, 35650),

Gene: Plagueis_43 Start: 32809, Stop: 34218, Start Num: 45

Candidate Starts for Plagueis_43:

(29, 32620), (Start: 45 @32809 has 48 MA's), (Start: 49 @32830 has 153 MA's), (68, 32911), (71, 32923), (76, 32944), (77, 32947), (87, 33010), (96, 33058), (101, 33091), (107, 33127), (109, 33151), (118, 33214), (120, 33220), (139, 33352), (141, 33382), (146, 33406), (151, 33433), (152, 33436),

(163, 33490), (168, 33517), (207, 33724), (260, 33922), (273, 34021), (292, 34177),

Gene: Pollux_60 Start: 42256, Stop: 43395, Start Num: 49

Candidate Starts for Pollux_60:

(25, 41971), (32, 42157), (36, 42202), (Start: 49 @42256 has 153 MA's), (77, 42364), (81, 42394), (94, 42469), (118, 42649), (120, 42655), (151, 42823), (154, 42844), (155, 42850), (161, 42874), (163, 42880), (172, 42943), (176, 42979), (181, 43000), (198, 43078),

Gene: Polly_54 Start: 39155, Stop: 40303, Start Num: 49

Candidate Starts for Polly_54:

(32, 39056), (36, 39101), (Start: 49 @39155 has 153 MA's), (77, 39266), (81, 39296), (118, 39551), (151, 39725), (154, 39746), (155, 39752), (161, 39776), (163, 39782), (172, 39845), (176, 39881), (181, 39902), (198, 39986), (202, 40034),

Gene: Posh_60 Start: 42119, Stop: 43222, Start Num: 49

Candidate Starts for Posh_60:

(Start: 49 @42119 has 153 MA's), (61, 42170), (65, 42191), (73, 42218), (77, 42236), (81, 42266), (102, 42371), (109, 42422), (120, 42491), (121, 42494), (151, 42659), (155, 42686), (161, 42710),

Gene: Powerball_56 Start: 38413, Stop: 39507, Start Num: 49

Candidate Starts for Powerball_56:

(Start: 49 @38413 has 153 MA's), (65, 38482), (73, 38509), (77, 38527), (81, 38557), (106, 38680), (109, 38713), (110, 38716), (120, 38782), (121, 38785), (140, 38893), (146, 38923), (151, 38950), (155, 38977), (161, 39001), (198, 39184), (228, 39355), (233, 39379),

Gene: Primanti_43 Start: 33010, Stop: 34398, Start Num: 49

Candidate Starts for Primanti_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: PullumCavea_54 Start: 41954, Stop: 42892, Start Num: 49

Candidate Starts for PullumCavea_54:

(Start: 49 @41954 has 153 MA's), (73, 42035), (77, 42053), (84, 42098), (85, 42101), (109, 42239), (118, 42302), (148, 42410), (151, 42422), (155, 42449), (158, 42461), (184, 42593), (210, 42713), (214, 42731), (223, 42782), (226, 42794), (241, 42839),

Gene: Pytheas_60 Start: 43189, Stop: 44337, Start Num: 49

Candidate Starts for Pytheas_60:

(Start: 49 @43189 has 153 MA's), (77, 43297), (81, 43327), (118, 43582), (120, 43588), (151, 43756), (154, 43777), (155, 43783), (161, 43807), (163, 43813), (172, 43876), (176, 43912), (181, 43933), (198, 44017), (202, 44065),

Gene: Rabbs_44 Start: 33198, Stop: 34574, Start Num: 49

Candidate Starts for Rabbs_44:

(6, 32211), (15, 32583), (Start: 45 @33177 has 48 MA's), (Start: 49 @33198 has 153 MA's), (54, 33222), (68, 33279), (71, 33291), (76, 33312), (77, 33315), (87, 33378), (96, 33426), (107, 33495), (109, 33519), (118, 33582), (139, 33720), (146, 33774), (151, 33801), (152, 33804), (161, 33852), (163, 33858), (187, 34005), (207, 34068), (222, 34137), (260, 34272), (262, 34305), (271, 34359),

Gene: Rattrick_43 Start: 32980, Stop: 34404, Start Num: 45

Candidate Starts for Rattrick_43:

(6, 32014), (15, 32386), (18, 32539), (Start: 45 @32980 has 48 MA's), (Start: 49 @33001 has 153 MA's), (68, 33082), (71, 33094), (76, 33115), (77, 33118), (87, 33181), (96, 33229), (101, 33262), (107, 33298), (109, 33322), (118, 33385), (139, 33523), (141, 33553), (146, 33577), (151, 33604), (152, 33607), (161, 33655), (163, 33661), (168, 33688), (194, 33841), (207, 33904), (260, 34108), (273, 34207),

Gene: RavenCo17_54 Start: 39554, Stop: 40645, Start Num: 49

Candidate Starts for RavenCo17_54:

(Start: 49 @39554 has 153 MA's), (62, 39605), (65, 39623), (73, 39650), (77, 39668), (81, 39698), (102, 39803), (109, 39854), (120, 39923), (121, 39926), (151, 40091), (155, 40118), (161, 40142), (198, 40325),

Gene: Remy19_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Remy19_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Renaissance_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Renaissance_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Richarlison_43 Start: 32974, Stop: 34383, Start Num: 45

Candidate Starts for Richarlison_43:

(29, 32785), (Start: 45 @32974 has 48 MA's), (Start: 49 @32995 has 153 MA's), (68, 33076), (71, 33088), (76, 33109), (77, 33112), (87, 33175), (96, 33223), (101, 33256), (107, 33292), (109, 33316), (118, 33379), (120, 33385), (139, 33517), (141, 33547), (146, 33571), (151, 33598), (152, 33601), (163, 33655), (168, 33682), (207, 33889), (260, 34087), (273, 34186), (292, 34342),

Gene: Rizz_55 Start: 37704, Stop: 38855, Start Num: 49

Candidate Starts for Rizz_55:

(32, 37593), (36, 37638), (Start: 49 @37704 has 153 MA's), (77, 37812), (81, 37842), (94, 37917), (118, 38097), (151, 38271), (154, 38292), (155, 38298), (161, 38322), (162, 38325), (163, 38328), (176, 38430), (179, 38439), (181, 38451), (198, 38532), (233, 38727), (249, 38787),

Gene: RogerDodger_58 Start: 42076, Stop: 43014, Start Num: 49

Candidate Starts for RogerDodger_58:

(Start: 49 @42076 has 153 MA's), (73, 42157), (77, 42175), (84, 42220), (85, 42223), (109, 42361), (118, 42424), (148, 42532), (151, 42544), (155, 42571), (158, 42583), (184, 42715), (210, 42835), (214, 42853), (223, 42904), (226, 42916), (241, 42961),

Gene: Ruriko_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Ruriko_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Ruthy_55 Start: 40488, Stop: 41606, Start Num: 49

Candidate Starts for Ruthy_55:

(Start: 49 @40488 has 153 MA's), (60, 40533), (73, 40587), (77, 40605), (81, 40635), (94, 40710), (98, 40746), (110, 40830), (111, 40836), (120, 40896), (121, 40899), (151, 41064), (154, 41085), (155, 41091), (161, 41115), (163, 41121), (202, 41343), (233, 41490), (235, 41499), (248, 41538),

Gene: Sahara_53 Start: 35658, Stop: 36806, Start Num: 49

Candidate Starts for Sahara_53:

(Start: 49 @35658 has 153 MA's), (77, 35766), (81, 35796), (118, 36051), (120, 36057), (147, 36207), (151, 36225), (154, 36246), (155, 36252), (161, 36276), (163, 36282), (172, 36345), (176, 36381), (181, 36402), (198, 36483),

Gene: Salvador_54 Start: 41772, Stop: 42722, Start Num: 49

Candidate Starts for Salvador_54:

(Start: 49 @41772 has 153 MA's), (73, 41865), (77, 41883), (81, 41913), (109, 42069), (112, 42081), (151, 42252), (184, 42423), (210, 42543), (214, 42561), (223, 42612), (226, 42624), (241, 42669),

Gene: Samman98_55 Start: 37021, Stop: 38172, Start Num: 49

Candidate Starts for Samman98_55:

(32, 36910), (36, 36955), (Start: 49 @37021 has 153 MA's), (77, 37129), (81, 37159), (94, 37234), (118, 37414), (151, 37588), (154, 37609), (155, 37615), (161, 37639), (162, 37642), (163, 37645), (176, 37747), (179, 37756), (181, 37768), (198, 37849), (233, 38044), (249, 38104),

Gene: Savage_54 Start: 35911, Stop: 37059, Start Num: 49

Candidate Starts for Savage_54:

(Start: 49 @35911 has 153 MA's), (77, 36019), (81, 36049), (118, 36304), (120, 36310), (147, 36460), (151, 36478), (154, 36499), (155, 36505), (161, 36529), (163, 36535), (172, 36598), (176, 36634), (181, 36655), (198, 36736),

Gene: Schiebel_43 Start: 32995, Stop: 34383, Start Num: 49

Candidate Starts for Schiebel_43:

(29, 32785), (Start: 45 @32974 has 48 MA's), (Start: 49 @32995 has 153 MA's), (68, 33076), (71, 33088), (76, 33109), (77, 33112), (87, 33175), (96, 33223), (101, 33256), (107, 33292), (109, 33316), (118, 33379), (120, 33385), (139, 33517), (141, 33547), (146, 33571), (151, 33598), (152, 33601), (163, 33655), (168, 33682), (207, 33889), (260, 34087), (273, 34186), (292, 34342),

Gene: Sekhmet_56 Start: 38079, Stop: 39206, Start Num: 49

Candidate Starts for Sekhmet_56:

(32, 37980), (36, 38025), (Start: 49 @38079 has 153 MA's), (62, 38130), (65, 38148), (73, 38175), (77, 38193), (81, 38223), (94, 38298), (98, 38334), (118, 38478), (151, 38652), (154, 38673), (155, 38679), (163, 38709), (172, 38772), (198, 38886), (233, 39081),

Gene: Sendy_56 Start: 42080, Stop: 43030, Start Num: 49

Candidate Starts for Sendy_56:

(Start: 49 @42080 has 153 MA's), (73, 42173), (77, 42191), (81, 42221), (109, 42377), (112, 42389), (151, 42560), (155, 42587), (184, 42731), (210, 42851), (214, 42869), (223, 42920), (226, 42932), (241, 42977),

Gene: ShaboiShabazz_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for ShaboiShabazz_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: SharkTale_57 Start: 43113, Stop: 44063, Start Num: 49

Candidate Starts for SharkTale_57:

(Start: 49 @43113 has 153 MA's), (73, 43206), (77, 43224), (81, 43254), (109, 43410), (112, 43422), (151, 43593), (155, 43620), (184, 43764), (210, 43884), (214, 43902), (223, 43953), (226, 43965), (241, 44010),

Gene: Shlim410_57 Start: 41999, Stop: 43018, Start Num: 49

Candidate Starts for Shlim410_57:

(27, 41771), (35, 41936), (37, 41945), (41, 41957), (Start: 49 @41999 has 153 MA's), (73, 42083), (79, 42104), (89, 42149), (90, 42152), (97, 42200), (100, 42221), (108, 42275), (109, 42290), (122, 42353), (128, 42392), (151, 42473), (164, 42536), (198, 42698), (233, 42893),

Gene: Sidious_57 Start: 40481, Stop: 41569, Start Num: 49

Candidate Starts for Sidious_57:

(14, 39860), (17, 39956), (31, 40364), (32, 40382), (36, 40427), (Start: 49 @40481 has 153 MA's), (65, 40547), (73, 40574), (77, 40592), (81, 40622), (109, 40778), (110, 40781), (118, 40841), (120, 40847), (151, 41015), (155, 41042), (161, 41066), (186, 41198), (198, 41252), (251, 41522),

Gene: Sizemore_43 Start: 32975, Stop: 34384, Start Num: 45

Candidate Starts for Sizemore_43:

(29, 32786), (Start: 45 @32975 has 48 MA's), (Start: 49 @32996 has 153 MA's), (68, 33077), (71, 33089), (76, 33110), (77, 33113), (87, 33176), (96, 33224), (101, 33257), (107, 33293), (109, 33317), (118, 33380), (120, 33386), (139, 33518), (141, 33548), (146, 33572), (151, 33599), (152, 33602), (163, 33656), (168, 33683), (207, 33890), (260, 34088), (273, 34187), (292, 34343),

Gene: Sleepyhead_52 Start: 35211, Stop: 36374, Start Num: 57

Candidate Starts for Sleepyhead_52:

(Start: 57 @35211 has 1 MA's), (78, 35319), (93, 35400), (96, 35433), (97, 35436), (109, 35526), (199, 35979), (200, 36000), (208, 36042), (228, 36144), (241, 36192), (243, 36201),

Gene: SmokingBunny_55 Start: 41865, Stop: 42815, Start Num: 49

Candidate Starts for SmokingBunny_55:

(Start: 49 @41865 has 153 MA's), (73, 41958), (77, 41976), (81, 42006), (109, 42162), (112, 42174), (151, 42345), (155, 42372), (184, 42516), (210, 42636), (214, 42654), (223, 42705), (226, 42717), (241, 42762),

Gene: Sneeze_44 Start: 33197, Stop: 34573, Start Num: 49

Candidate Starts for Sneeze_44:

(6, 32210), (15, 32582), (Start: 45 @33176 has 48 MA's), (Start: 49 @33197 has 153 MA's), (54, 33221), (68, 33278), (71, 33290), (76, 33311), (77, 33314), (87, 33377), (96, 33425), (107, 33494), (109, 33518), (118, 33581), (139, 33719), (146, 33773), (151, 33800), (152, 33803), (161, 33851), (163, 33857), (187, 34004), (207, 34067), (222, 34136), (260, 34271), (262, 34304), (271, 34358),

Gene: SoilAssassin_52 Start: 36844, Stop: 37989, Start Num: 49

Candidate Starts for SoilAssassin_52:

(32, 36745), (36, 36790), (Start: 49 @36844 has 153 MA's), (77, 36952), (81, 36982), (118, 37237), (120, 37243), (133, 37324), (151, 37411), (154, 37432), (155, 37438), (161, 37462), (163, 37468), (172, 37531), (176, 37567), (181, 37588), (198, 37669), (202, 37717), (204, 37726),

Gene: Sonali_47 Start: 37499, Stop: 38617, Start Num: 55

Candidate Starts for Sonali_47:

(39, 37409), (Start: 55 @37499 has 13 MA's), (77, 37613), (81, 37643), (95, 37700), (97, 37709), (100, 37730), (108, 37784), (116, 37838), (119, 37865), (151, 37985), (163, 38042), (165, 38051), (170, 38078), (171, 38081), (191, 38198), (203, 38276), (209, 38303), (218, 38342), (229, 38402), (230, 38405), (252, 38501), (258, 38540), (265, 38570),

Gene: Sprinklemunch_64 Start: 43577, Stop: 44674, Start Num: 49

Candidate Starts for Sprinklemunch_64:

(Start: 49 @43577 has 153 MA's), (65, 43646), (73, 43673), (77, 43691), (81, 43721), (106, 43844), (109, 43877), (110, 43880), (120, 43946), (151, 44114), (155, 44141), (158, 44153), (161, 44165), (192, 44336), (198, 44363), (213, 44465), (215, 44468), (233, 44558), (235, 44567), (236, 44570), (249, 44606),

Gene: Sproutie_54 Start: 35911, Stop: 37059, Start Num: 49

Candidate Starts for Sproutie_54:

(Start: 49 @35911 has 153 MA's), (77, 36019), (81, 36049), (118, 36304), (120, 36310), (147, 36460), (151, 36478), (154, 36499), (155, 36505), (161, 36529), (163, 36535), (172, 36598), (176, 36634), (181, 36655), (198, 36736),

Gene: Stargaze_44 Start: 34260, Stop: 35672, Start Num: 42

Candidate Starts for Stargaze_44:

(29, 34080), (32, 34170), (Start: 42 @34260 has 29 MA's), (Start: 50 @34296 has 1 MA's), (65, 34356), (71, 34380), (87, 34449), (104, 34551), (107, 34566), (109, 34590), (111, 34599), (118, 34653), (132, 34734), (146, 34845), (151, 34872), (158, 34911), (161, 34923), (163, 34929), (174, 35010), (187, 35061), (207, 35181), (260, 35379), (282, 35538), (288, 35601), (289, 35613),

Gene: Suerte_51 Start: 36995, Stop: 38143, Start Num: 49

Candidate Starts for Suerte_51:

(32, 36884), (36, 36929), (Start: 49 @36995 has 153 MA's), (77, 37103), (81, 37133), (94, 37208), (118, 37388), (120, 37394), (151, 37562), (152, 37565), (154, 37583), (155, 37589), (161, 37613), (162, 37616), (163, 37619), (176, 37721), (179, 37730), (181, 37742), (198, 37823), (233, 38018),

Gene: SunnyJune_43 Start: 31608, Stop: 32651, Start Num: 55

Candidate Starts for SunnyJune_43:

(Start: 55 @31608 has 13 MA's), (64, 31656), (74, 31698), (101, 31872), (108, 31917), (109, 31932), (113, 31947), (119, 31998), (151, 32115), (242, 32511), (243, 32514), (247, 32532), (250, 32547), (253, 32580),

Gene: Sunshine23_48 Start: 37381, Stop: 38502, Start Num: 55

Candidate Starts for Sunshine23_48:

(39, 37288), (Start: 55 @37381 has 13 MA's), (77, 37495), (81, 37525), (95, 37582), (97, 37591), (100, 37612), (108, 37666), (116, 37720), (119, 37747), (151, 37867), (163, 37924), (165, 37933), (170, 37960), (171, 37963), (191, 38083), (209, 38188), (218, 38227), (229, 38287), (230, 38290), (252, 38386), (258, 38425), (265, 38455),

Gene: Suscepit_57 Start: 39713, Stop: 40861, Start Num: 49

Candidate Starts for Suscepit_57:

(32, 39614), (36, 39659), (Start: 49 @39713 has 153 MA's), (77, 39824), (81, 39854), (118, 40109), (151, 40283), (154, 40304), (155, 40310), (161, 40334), (163, 40340), (172, 40403), (176, 40439), (181, 40460), (198, 40544), (202, 40592),

Gene: SushiChef_57 Start: 41724, Stop: 42854, Start Num: 49

Candidate Starts for SushiChef_57:

(32, 41625), (Start: 49 @41724 has 153 MA's), (65, 41799), (73, 41826), (77, 41844), (81, 41874), (89, 41910), (94, 41949), (98, 41985), (120, 42135), (121, 42138), (151, 42303), (154, 42324), (155, 42330), (161, 42354), (163, 42360), (172, 42420), (181, 42468), (190, 42504), (202, 42585), (204, 42594),

Gene: Sweets_43 Start: 32984, Stop: 34393, Start Num: 45

Candidate Starts for Sweets_43:

(29, 32795), (Start: 45 @32984 has 48 MA's), (Start: 49 @33005 has 153 MA's), (68, 33086), (71, 33098), (76, 33119), (77, 33122), (87, 33185), (96, 33233), (101, 33266), (107, 33302), (109, 33326), (118, 33389), (120, 33395), (139, 33527), (141, 33557), (146, 33581), (151, 33608), (152, 33611), (163, 33665), (168, 33692), (207, 33899), (260, 34097), (273, 34196), (292, 34352),

Gene: Taheera_42 Start: 32680, Stop: 34113, Start Num: 45

Candidate Starts for Taheera_42:

(Start: 45 @32680 has 48 MA's), (Start: 49 @32701 has 153 MA's), (54, 32725), (68, 32782), (71, 32794), (76, 32815), (77, 32818), (87, 32881), (96, 32929), (107, 32998), (109, 33022), (118, 33085), (139, 33223), (146, 33277), (151, 33304), (152, 33307), (161, 33355), (163, 33361), (207, 33595), (260, 33814), (262, 33847),

Gene: Tayonia_57 Start: 39712, Stop: 40860, Start Num: 49

Candidate Starts for Tayonia_57:

(32, 39613), (36, 39658), (Start: 49 @39712 has 153 MA's), (77, 39823), (81, 39853), (118, 40108), (151, 40282), (154, 40303), (155, 40309), (161, 40333), (163, 40339), (172, 40402), (176, 40438), (181, 40459), (198, 40543), (202, 40591),

Gene: Terror_42 Start: 32680, Stop: 34113, Start Num: 45

Candidate Starts for Terror_42:

(Start: 45 @32680 has 48 MA's), (Start: 49 @32701 has 153 MA's), (54, 32725), (68, 32782), (71, 32794), (76, 32815), (77, 32818), (87, 32881), (96, 32929), (107, 32998), (109, 33022), (118, 33085), (139, 33223), (146, 33277), (151, 33304), (152, 33307), (161, 33355), (163, 33361), (207, 33595), (260, 33814), (262, 33847),

Gene: ThankyouJordi_60 Start: 42528, Stop: 43664, Start Num: 49

Candidate Starts for ThankyouJordi_60:

(8, 41562), (9, 41640), (10, 41652), (20, 42123), (29, 42327), (36, 42462), (Start: 49 @42528 has 153 MA's), (75, 42630), (77, 42639), (81, 42669), (89, 42705), (94, 42744), (102, 42810), (118, 42924), (121, 42933), (149, 43092), (151, 43098), (154, 43119), (155, 43125), (161, 43149), (163, 43155), (176, 43248), (192, 43320), (198, 43347), (202, 43395),

Gene: Thimann_57 Start: 38439, Stop: 39587, Start Num: 49

Candidate Starts for Thimann_57:

(32, 38328), (36, 38373), (Start: 49 @38439 has 153 MA's), (77, 38547), (81, 38577), (94, 38652), (118, 38832), (120, 38838), (151, 39006), (152, 39009), (154, 39027), (155, 39033), (161, 39057), (162, 39060), (163, 39063), (176, 39165), (179, 39174), (181, 39186), (198, 39267), (233, 39462), (249, 39522),

Gene: TillyBobJoe_57 Start: 43373, Stop: 44326, Start Num: 49

Candidate Starts for TillyBobJoe_57:

(Start: 49 @43373 has 153 MA's), (73, 43466), (77, 43484), (81, 43514), (100, 43601), (109, 43670), (112, 43682), (151, 43853), (172, 43961), (184, 44024), (210, 44147), (214, 44165), (223, 44216), (241, 44273),

Gene: TinaBug_43 Start: 33005, Stop: 34393, Start Num: 49

Candidate Starts for TinaBug_43:

(29, 32795), (Start: 45 @32984 has 48 MA's), (Start: 49 @33005 has 153 MA's), (68, 33086), (71, 33098), (76, 33119), (77, 33122), (87, 33185), (96, 33233), (101, 33266), (107, 33302), (109, 33326), (118, 33389), (120, 33395), (139, 33527), (141, 33557), (146, 33581), (151, 33608), (152, 33611), (163, 33665), (168, 33692), (207, 33899), (260, 34097), (273, 34196), (292, 34352),

Gene: Togo_54 Start: 41865, Stop: 42815, Start Num: 49

Candidate Starts for Togo_54:

(Start: 49 @41865 has 153 MA's), (73, 41958), (77, 41976), (81, 42006), (109, 42162), (112, 42174), (151, 42345), (155, 42372), (184, 42516), (210, 42636), (214, 42654), (223, 42705), (226, 42717), (241, 42762),

Gene: TomBrady_43 Start: 32990, Stop: 34399, Start Num: 45

Candidate Starts for TomBrady_43:

(29, 32801), (Start: 45 @32990 has 48 MA's), (Start: 49 @33011 has 153 MA's), (68, 33092), (71, 33104), (76, 33125), (77, 33128), (87, 33191), (96, 33239), (101, 33272), (107, 33308), (109, 33332), (118, 33395), (120, 33401), (139, 33533), (141, 33563), (146, 33587), (151, 33614), (152, 33617), (163, 33671), (168, 33698), (207, 33905), (260, 34103), (273, 34202), (292, 34358),

Gene: Trumpet_57 Start: 39713, Stop: 40861, Start Num: 49

Candidate Starts for Trumpet_57:

(32, 39614), (36, 39659), (Start: 49 @39713 has 153 MA's), (77, 39824), (81, 39854), (118, 40109), (151, 40283), (154, 40304), (155, 40310), (161, 40334), (163, 40340), (172, 40403), (176, 40439), (181, 40460), (198, 40544), (202, 40592),

Gene: TuertoX_54 Start: 35911, Stop: 37059, Start Num: 49

Candidate Starts for TuertoX_54:

(Start: 49 @35911 has 153 MA's), (77, 36019), (81, 36049), (118, 36304), (120, 36310), (147, 36460), (151, 36478), (154, 36499), (155, 36505), (161, 36529), (163, 36535), (172, 36598), (176, 36634), (181, 36655), (198, 36736),

Gene: Tuti_53 Start: 38903, Stop: 40051, Start Num: 49

Candidate Starts for Tuti_53:

(32, 38792), (36, 38837), (Start: 49 @38903 has 153 MA's), (77, 39011), (81, 39041), (94, 39116), (118, 39296), (151, 39470), (154, 39491), (155, 39497), (161, 39521), (162, 39524), (163, 39527), (176, 39629), (179, 39638), (181, 39650), (198, 39731), (233, 39926),

Gene: Twinkle_58 Start: 43058, Stop: 44077, Start Num: 49

Candidate Starts for Twinkle_58:

(27, 42830), (35, 42995), (37, 43004), (41, 43016), (Start: 49 @43058 has 153 MA's), (73, 43142), (79, 43163), (89, 43208), (90, 43211), (97, 43259), (100, 43280), (108, 43334), (109, 43349), (122, 43412), (128, 43451), (151, 43532), (164, 43595), (198, 43757), (233, 43952),

Gene: Ubuntu_56 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Ubuntu_56:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Valary_57 Start: 42681, Stop: 43619, Start Num: 49

Candidate Starts for Valary_57:

(Start: 49 @42681 has 153 MA's), (73, 42762), (77, 42780), (84, 42825), (85, 42828), (109, 42966), (118, 43029), (148, 43137), (151, 43149), (155, 43176), (158, 43188), (184, 43320), (210, 43440), (214, 43458), (223, 43509), (226, 43521), (241, 43566),

Gene: VanDeWege_58 Start: 41973, Stop: 42911, Start Num: 49

Candidate Starts for VanDeWege_58:

(Start: 49 @41973 has 153 MA's), (73, 42054), (77, 42072), (84, 42117), (85, 42120), (109, 42258), (118, 42321), (148, 42429), (151, 42441), (155, 42468), (158, 42480), (184, 42612), (210, 42732), (214, 42750), (223, 42801), (226, 42813), (241, 42858),

Gene: Vibaki_35 Start: 31085, Stop: 32152, Start Num: 55

Candidate Starts for Vibaki_35:

(Start: 55 @31085 has 13 MA's), (74, 31157), (90, 31241), (101, 31331), (108, 31376), (109, 31391), (151, 31574), (157, 31610), (161, 31625), (243, 32000),

Gene: Vitus_36 Start: 29804, Stop: 30862, Start Num: 55

Candidate Starts for Vitus_36:

(Start: 55 @29804 has 13 MA's), (74, 29876), (101, 30050), (106, 30077), (108, 30095), (109, 30110), (132, 30257), (151, 30293), (157, 30329), (178, 30446), (180, 30455), (229, 30674), (232, 30686), (243, 30722),

Gene: Webster2_56 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Webster2_56:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: WelcomeAyanna_60 Start: 42675, Stop: 43811, Start Num: 49

Candidate Starts for WelcomeAyanna_60:

(8, 41709), (9, 41787), (10, 41799), (20, 42270), (29, 42474), (36, 42609), (Start: 49 @42675 has 153 MA's), (75, 42777), (77, 42786), (81, 42816), (89, 42852), (94, 42891), (102, 42957), (118, 43071), (121, 43080), (149, 43239), (151, 43245), (154, 43266), (155, 43272), (161, 43296), (163, 43302), (176, 43395), (192, 43467), (198, 43494), (202, 43542),

Gene: Wendigo_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Wendigo_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Whiteclaw_54 Start: 35911, Stop: 37059, Start Num: 49

Candidate Starts for Whiteclaw_54:

(Start: 49 @35911 has 153 MA's), (77, 36019), (81, 36049), (118, 36304), (120, 36310), (147, 36460), (151, 36478), (154, 36499), (155, 36505), (161, 36529), (163, 36535), (172, 36598), (176, 36634), (181, 36655), (198, 36736),

Gene: WinkNick_57 Start: 37603, Stop: 38730, Start Num: 49

Candidate Starts for WinkNick_57:

(32, 37504), (36, 37549), (Start: 49 @37603 has 153 MA's), (62, 37654), (65, 37672), (73, 37699), (77, 37717), (81, 37747), (94, 37822), (98, 37858), (118, 38002), (151, 38176), (154, 38197), (155, 38203), (163, 38233), (172, 38296), (198, 38410), (233, 38605),

Gene: Wishmaker_53 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for Wishmaker_53:

(Start: 42 @39868 has 29 MA's), (61, 39946), (65, 39967), (67, 39973), (72, 39991), (75, 40003), (77, 40012), (79, 40024), (81, 40042), (87, 40057), (88, 40060), (100, 40129), (102, 40147), (109, 40198), (112, 40210), (123, 40294), (131, 40360), (135, 40396), (138, 40405), (146, 40471), (150, 40495), (151, 40498), (153, 40513), (158, 40537), (162, 40552), (163, 40555), (168, 40582), (173, 40639), (183, 40684), (220, 40885), (221, 40888), (256, 41035), (260, 41047), (261, 41068), (268, 41122), (269, 41125), (270, 41134), (272, 41146), (278, 41188), (280, 41203), (291, 41305),

Gene: Wizard_54 Start: 41879, Stop: 42817, Start Num: 49

Candidate Starts for Wizard_54:

(Start: 49 @41879 has 153 MA's), (73, 41960), (77, 41978), (84, 42023), (85, 42026), (109, 42164), (118, 42227), (148, 42335), (151, 42347), (155, 42374), (158, 42386), (184, 42518), (210, 42638), (214, 42656), (223, 42707), (226, 42719), (241, 42764),

Gene: Wocket_59 Start: 38775, Stop: 39740, Start Num: 49

Candidate Starts for Wocket_59:

(Start: 49 @38775 has 153 MA's), (73, 38862), (77, 38880), (80, 38907), (81, 38910), (102, 39015), (103, 39024), (109, 39066), (151, 39249), (161, 39300), (173, 39366), (178, 39393), (245, 39678),

Gene: Wrigley_62 Start: 41702, Stop: 42805, Start Num: 49

Candidate Starts for Wrigley_62:

(Start: 49 @41702 has 153 MA's), (61, 41753), (65, 41774), (73, 41801), (77, 41819), (81, 41849), (102, 41954), (109, 42005), (120, 42074), (121, 42077), (151, 42242), (155, 42269), (161, 42293),

Gene: YangYin_44 Start: 34286, Stop: 35686, Start Num: 42

Candidate Starts for YangYin_44:

(29, 34106), (32, 34196), (Start: 42 @34286 has 29 MA's), (Start: 50 @34322 has 1 MA's), (65, 34382), (71, 34406), (87, 34475), (104, 34577), (107, 34592), (109, 34616), (118, 34679), (132, 34760), (146, 34871), (151, 34898), (158, 34937), (161, 34949), (163, 34955), (174, 35036), (175, 35039), (187, 35087), (207, 35195), (260, 35393), (282, 35552), (288, 35615), (289, 35627),

Gene: Yeet412_52 Start: 36845, Stop: 37999, Start Num: 49

Candidate Starts for Yeet412_52:

(32, 36746), (36, 36791), (Start: 49 @36845 has 153 MA's), (77, 36956), (81, 36986), (118, 37241), (151, 37415), (154, 37436), (155, 37442), (161, 37466), (163, 37472), (172, 37535), (176, 37571), (181, 37592), (198, 37676),

Gene: Yeezy_57 Start: 39122, Stop: 40219, Start Num: 49

Candidate Starts for Yeezy_57:

(Start: 49 @39122 has 153 MA's), (65, 39194), (73, 39221), (77, 39239), (81, 39269), (102, 39374), (109, 39425), (120, 39494), (121, 39497), (151, 39662), (155, 39689), (161, 39713), (198, 39896), (202, 39944), (219, 40022), (233, 40091),

Gene: Yinzer_54 Start: 35911, Stop: 37059, Start Num: 49

Candidate Starts for Yinzer_54:

(Start: 49 @35911 has 153 MA's), (77, 36019), (81, 36049), (118, 36304), (120, 36310), (147, 36460), (151, 36478), (154, 36499), (155, 36505), (161, 36529), (163, 36535), (172, 36598), (176, 36634), (181, 36655), (198, 36736),

Gene: Zameen_57 Start: 39712, Stop: 40860, Start Num: 49

Candidate Starts for Zameen_57:

(32, 39613), (36, 39658), (Start: 49 @39712 has 153 MA's), (77, 39823), (81, 39853), (118, 40108), (151, 40282), (154, 40303), (155, 40309), (161, 40333), (163, 40339), (172, 40402), (176, 40438), (181, 40459), (198, 40543), (202, 40591),

Gene: Zirinka_54 Start: 40332, Stop: 41480, Start Num: 49

Candidate Starts for Zirinka_54:

(32, 40233), (36, 40278), (Start: 49 @40332 has 153 MA's), (77, 40443), (81, 40473), (118, 40728), (151, 40902), (154, 40923), (155, 40929), (161, 40953), (163, 40959), (172, 41022), (176, 41058), (181, 41079), (198, 41163), (202, 41211),

Gene: ZoMa_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for ZoMa_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),

Gene: Zodiariah_56 Start: 42307, Stop: 43419, Start Num: 49

Candidate Starts for Zodiariah_56:

(Start: 49 @42307 has 153 MA's), (65, 42376), (73, 42403), (77, 42421), (81, 42451), (102, 42556), (109, 42607), (110, 42610), (120, 42676), (146, 42817), (151, 42844), (152, 42847), (155, 42871), (158, 42883), (161, 42895), (192, 43069), (198, 43096), (202, 43144),

Gene: Zombie_43 Start: 32989, Stop: 34398, Start Num: 45

Candidate Starts for Zombie_43:

(29, 32800), (Start: 45 @32989 has 48 MA's), (Start: 49 @33010 has 153 MA's), (68, 33091), (71, 33103), (76, 33124), (77, 33127), (87, 33190), (96, 33238), (101, 33271), (107, 33307), (109, 33331), (118, 33394), (120, 33400), (139, 33532), (141, 33562), (146, 33586), (151, 33613), (152, 33616), (163, 33670), (168, 33697), (207, 33904), (260, 34102), (273, 34201), (292, 34357),