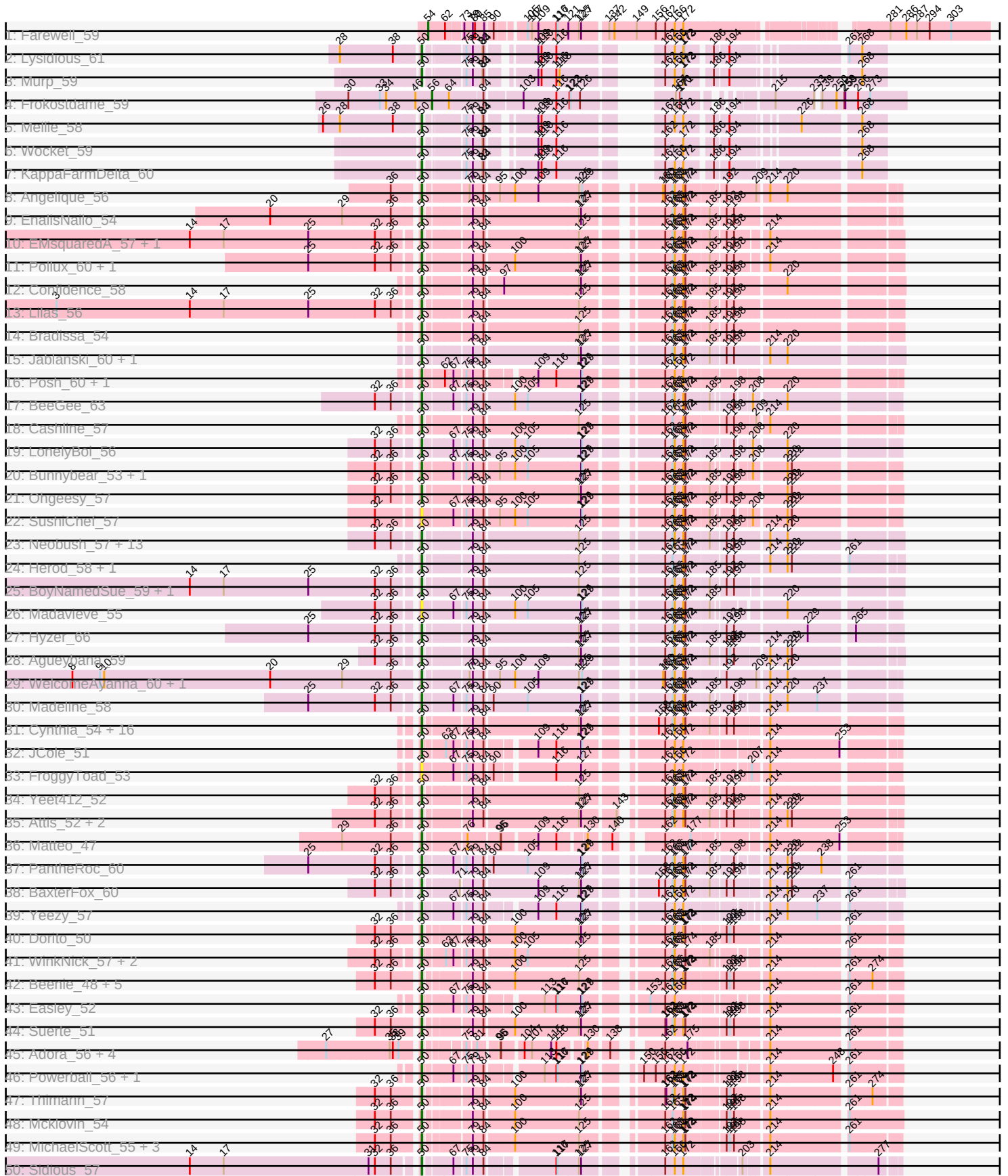
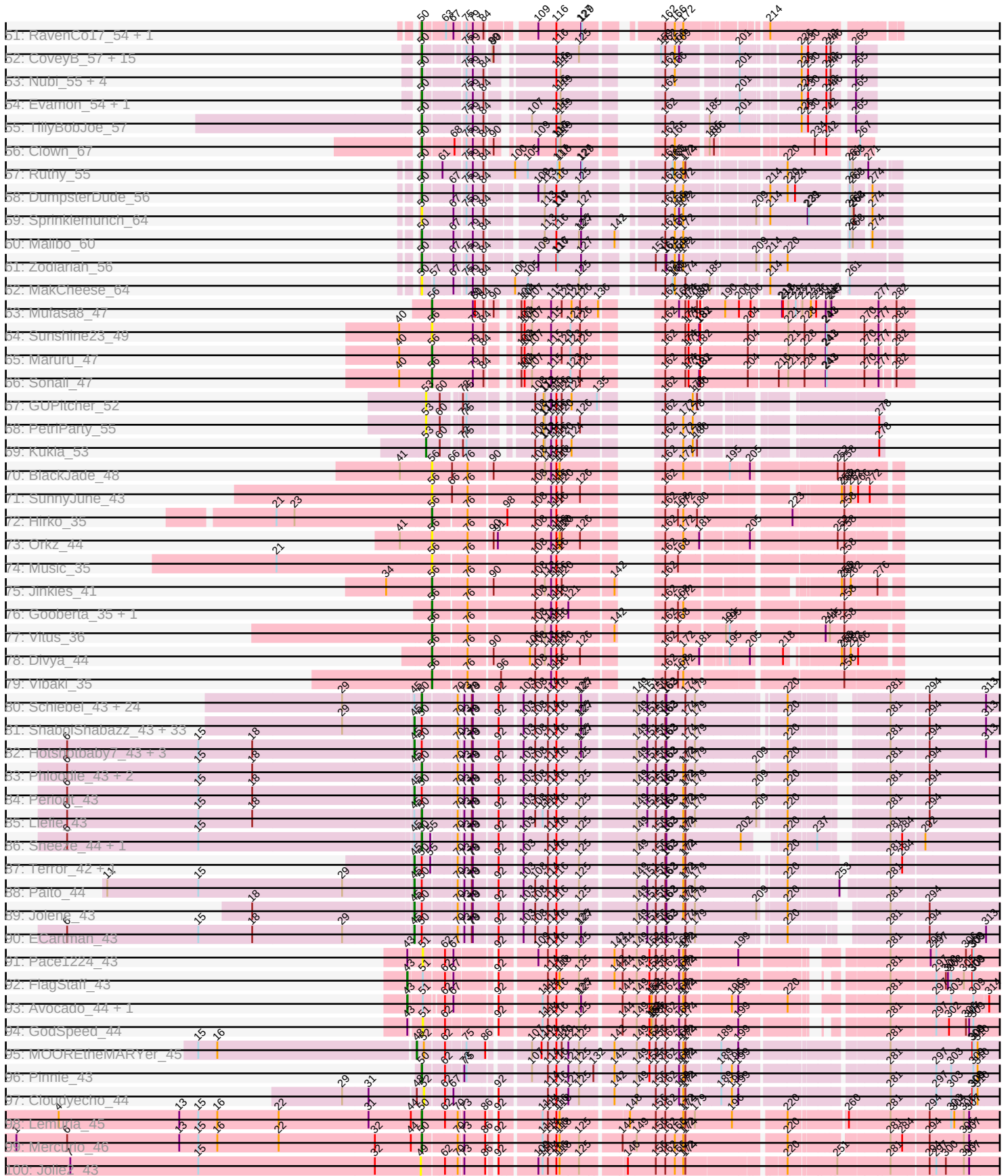


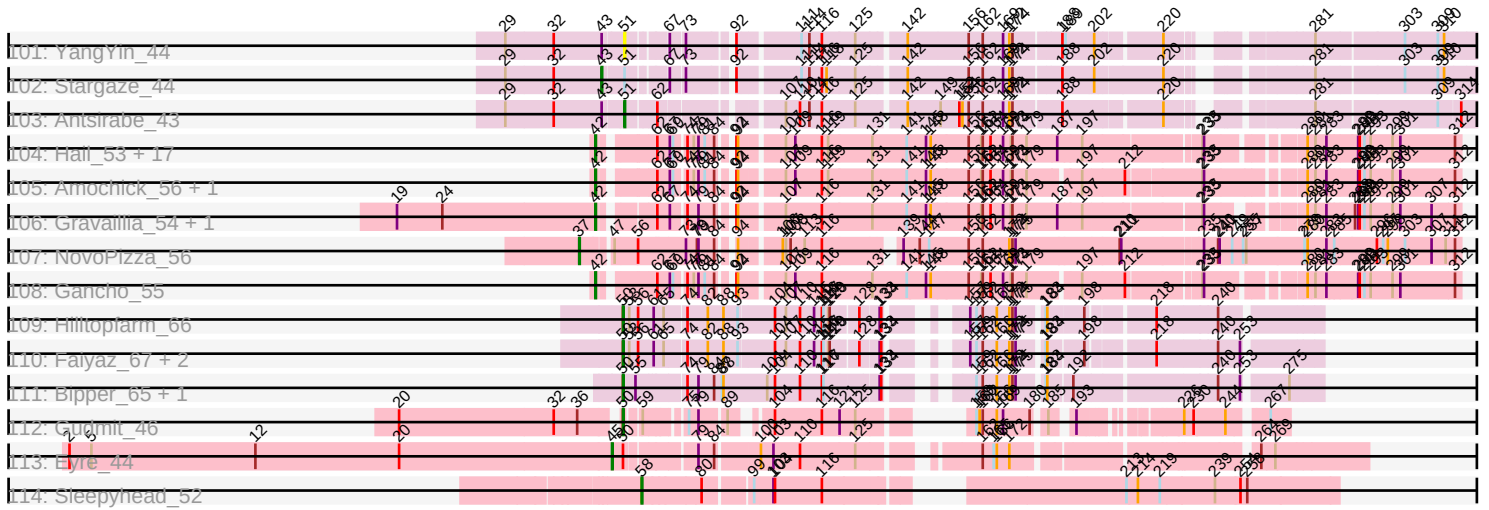
Pham 311174



Pham 311174



Pham 311174



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 311174 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311174 has 277 members, 31 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, Kita_58, Manasvini_58, Pickett_50, Eudoria_57, Polly_54, 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, Yinzer_54, Sahara_53, Jalleen_54, Nettuno_50, 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 : Beenie_48, Invectra_56, 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_49
- Track 65 : Maruru_47
- Track 66 : Sonali_47
- Track 67 : GUPitcher_52
- Track 68 : PetriParty_55
- 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, Richarlison_43, CassieYates_43, Frosty24_43, Halo_43, ForeverHowLong_43, BQuat_43,

PinkYoshi_43, Angel_43

- Track 81 : ShaboiShabazz_43, Maliketh_43, Zombie_43, MZKinsey_43, Barkley26_43, Cherrybomb426_43, Plagueis_43, DingDing_43, LouisV14_45, JorRay_43, Kareem_43, Wendigo_43, Marmie_43, Ruriko_43, DMoney_43, Renaissance_43, Olga_43, Mowgli_43, Peeb_43, AzulaCat_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, Rattrick_43, DNAIII_0042
- Track 84 : Periodt_43
- Track 85 : Liefie_43
- Track 86 : Sneeze_44, Rabbs_44
- Track 87 : Terror_42, Taheera_42
- Track 88 : Paito_44
- Track 89 : Jolene_43
- Track 90 : ECartman_43
- Track 91 : Pace1224_43
- Track 92 : FlagStaff_43
- Track 93 : Avocado_44, Cambiare_45
- Track 94 : GodSpeed_44
- 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, Amymech_56, LilHazelNut_56, Hadrien_55, Wishmaker_53, Giles_53, Evanesce_55, Forge_53, Luna22_53, Ubuntu_56, BloominB_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 : Hilltopfarm_66
- Track 110 : Faiyaz_67, AuntGwenStacy_67, Typha_66
- Track 111 : Bipper_65, Cracklewink_64
- Track 112 : Gudmit_46
- Track 113 : Eyre_44
- Track 114 : 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 50, it was called in 158 of the 246 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, AuntGwenStacy_67, Avrafan_43, BPs_43, BQuat_43, Barb_57, BaxterFox_60, BeeGee_63, Beenie_48, Bialota_55, Bipper_65, Bjaness_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, Cracklewink_64, Crespo_43, Cynthia_54, DNAIII_0042, Darionha_43, DobbysSock_47, Dolores_56, Dorito_50, DumpsterDude_56, EmsquaredA_57, Easley_52, Ebert_58, EdnaMode_51, Egi03_55, EnalisNailo_54, Eudoria_57, Evamon_54, Faiyaz_67, 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, Hilltopfarm_66, 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, Phloodle_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, Rattrick_43, RavenCo17_54, Richarlison_43, 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, Typha_66, 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, Plagueis_43, Remy19_43, Renaissance_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_56, 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_52, Gancho_55, Giles_53, GodSpeed_44, 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_49, Ubuntu_56, Vibaki_35, Vitus_36, Webster2_56, Wishmaker_53, YangYin_44,

Summary by start number:

Start 37:

- Found in 1 of 277 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 246
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NovoPizza_56 (Q),

Start 42:

- Found in 23 of 277 (8.3%) of genes in pham
- Manual Annotations of this start: 22 of 246
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amochick_56 (Q), Amymech_56 (Q), BloominB_56 (Q), Daegal_58 (Q), DeepSoil15_56 (Q), Dewey_53 (Q), Ein37_56 (Q), Evanesce_55 (Q), Forge_53 (Q), Gancho_55 (Q), Giles_53 (Q), Gravallia_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), Ubuntu_56 (Q), Webster2_56 (Q), Wishmaker_53 (Q),

Start 43:

- Found in 8 of 277 (2.9%) of genes in pham
- Manual Annotations of this start: 4 of 246
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Avocado_44 (G2), Cambiare_45 (G2), FlagStaff_43 (G2), Stargaze_44 (G5),

Start 45:

- Found in 76 of 277 (27.4%) of genes in pham
- Manual Annotations of this start: 45 of 246
- Called 59.2% 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), Plagueis_43 (G1), Remy19_43 (G1), Renaissance_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 48:

- Found in 2 of 277 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 246
- Called 50.0% of time when present
- Phage (with cluster) where this start called: MOOREtheMARYer_45 (G3),

Start 49:

- Found in 1 of 277 (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 50:

- Found in 221 of 277 (79.8%) of genes in pham
- Manual Annotations of this start: 158 of 246
- Called 79.6% 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), AuntGwenStacy_67 (Y), Avrafan_43 (G1), BPs_43 (G1), BQuat_43 (G1), Barb_57 (DC1), BaxterFox_60 (CZ3), BeeGee_63 (CY5), Beenie_48 (CZ4), Bialota_55 (CZ1), Bipper_65 (Y), Bjaner7_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), Cracklewink_64 (Y), Crespo_43 (G1), Cynthia_54 (CZ2), DNAll_0042 (G1), Darionha_43 (G1), 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), Faiyaz_67 (Y), 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), Hilltopfarm_66 (Y), 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), Phloodle_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), Rattrick_43 (G1), RavenCo17_54 (CZ8), Richarlison_43 (G1), 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), Typha_66 (Y), 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 51:

- Found in 8 of 277 (2.9%) of genes in pham

- Manual Annotations of this start: 1 of 246
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_43 (G5), GodSpeed_44 (G2), Pace1224_43 (G2), YangYin_44 (G5),

Start 52:

- Found in 2 of 277 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cloudyecho_44 (G3),

Start 53:

- Found in 7 of 277 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 246
- Called 42.9% of time when present
- Phage (with cluster) where this start called: GUPitcher_52 (FJ), Kukla_53 (FJ), PetriParty_55 (FJ),

Start 54:

- Found in 1 of 277 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 246
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell_59 (AF),

Start 56:

- Found in 21 of 277 (7.6%) of genes in pham
- Manual Annotations of this start: 11 of 246
- Called 76.2% 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_49 (FG), Vibaki_35 (FL), Vitus_36 (FL),

Start 58:

- Found in 1 of 277 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 246
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sleepyhead_52 (singleton),

Summary by clusters:

There are 30 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, Y, DC2, CV, DC1,

Info for manual annotations of cluster AF:

- Start number 54 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster CV:

- Start number 50 was manually annotated 5 times for cluster CV.
- Start number 56 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CY1:

- Start number 50 was manually annotated 9 times for cluster CY1.

Info for manual annotations of cluster CY3:

- Start number 50 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:

- Start number 50 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:

- Start number 50 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:

- Start number 50 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 50 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ:

- Start number 50 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 50 was manually annotated 22 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 50 was manually annotated 23 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 50 was manually annotated 3 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 50 was manually annotated 24 times for cluster CZ4.

Info for manual annotations of cluster CZ7:

- Start number 50 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster CZ8:

- Start number 50 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DC1:

- Start number 50 was manually annotated 22 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 50 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DW:

- Start number 50 was manually annotated 4 times for cluster DW.

Info for manual annotations of cluster FG:

- Start number 56 was manually annotated 3 times for cluster FG.

Info for manual annotations of cluster FJ:

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

Info for manual annotations of cluster FL:

- Start number 56 was manually annotated 7 times for cluster FL.

Info for manual annotations of cluster G:

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

Info for manual annotations of cluster G1:

- Start number 45 was manually annotated 43 times for cluster G1.
- Start number 50 was manually annotated 24 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 43 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 48 was manually annotated 1 time for cluster G3.
- Start number 50 was manually annotated 1 time for cluster G3.

Info for manual annotations of cluster G4:

- Start number 50 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 43 was manually annotated 1 time for cluster G5.
- Start number 51 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster Q:

- Start number 37 was manually annotated 1 time for cluster Q.
- Start number 42 was manually annotated 22 times for cluster Q.

Info for manual annotations of cluster Y:

- Start number 50 was manually annotated 6 times for cluster Y.

Gene Information:

Gene: Adora_56 Start: 40644, Stop: 41663, Start Num: 50

Candidate Starts for Adora_56:

(27, 40416), (35, 40581), (38, 40590), (39, 40602), (Start: 50 @40644 has 158 MA's), (75, 40728), (81, 40749), (95, 40794), (96, 40797), (104, 40845), (107, 40866), (115, 40920), (116, 40935), (130, 40998), (138, 41037), (162, 41118), (175, 41181), (214, 41343), (261, 41538),

Gene: Agueybana_59 Start: 41420, Stop: 42568, Start Num: 50

Candidate Starts for Agueybana_59:

(32, 41321), (36, 41366), (Start: 50 @41420 has 158 MA's), (79, 41528), (84, 41558), (125, 41813), (127, 41819), (162, 41987), (165, 42008), (166, 42014), (172, 42038), (174, 42044), (185, 42107), (192, 42143), (195, 42152), (198, 42164), (214, 42245), (220, 42293), (222, 42302),

Gene: AizenPogi_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for AizenPogi_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616),

(174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: AlumE_59 Start: 41196, Stop: 42341, Start Num: 50

Candidate Starts for AlumE_59:

(14, 40575), (17, 40671), (25, 40911), (32, 41097), (36, 41142), (Start: 50 @41196 has 158 MA's), (79, 41304), (84, 41334), (125, 41589), (162, 41763), (165, 41784), (166, 41790), (172, 41814), (174, 41820), (185, 41883), (192, 41919), (198, 41940),

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

Candidate Starts for Amochick_56:

(Start: 42 @39892 has 22 MA's), (62, 39970), (67, 39991), (69, 39997), (74, 40015), (77, 40027), (79, 40036), (81, 40048), (84, 40066), (92, 40081), (94, 40084), (107, 40153), (109, 40171), (116, 40222), (119, 40234), (131, 40318), (141, 40384), (145, 40420), (148, 40429), (156, 40495), (161, 40519), (162, 40522), (164, 40537), (169, 40561), (173, 40576), (174, 40579), (179, 40606), (197, 40696), (212, 40771), (233, 40903), (235, 40906), (280, 41065), (281, 41077), (283, 41098), (289, 41152), (290, 41155), (291, 41164), (293, 41176), (299, 41218), (301, 41233), (312, 41335),

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

Candidate Starts for Amymech_56:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

Gene: Angel_43 Start: 32995, Stop: 34383, Start Num: 50

Candidate Starts for Angel_43:

(29, 32785), (Start: 45 @32974 has 45 MA's), (Start: 50 @32995 has 158 MA's), (70, 33076), (73, 33088), (78, 33109), (79, 33112), (92, 33175), (103, 33223), (108, 33256), (114, 33292), (116, 33316), (125, 33379), (127, 33385), (149, 33517), (151, 33547), (156, 33571), (162, 33598), (163, 33601), (174, 33655), (179, 33682), (220, 33889), (281, 34087), (294, 34186), (313, 34342),

Gene: Angelique_56 Start: 41358, Stop: 42494, Start Num: 50

Candidate Starts for Angelique_56:

(36, 41292), (Start: 50 @41358 has 158 MA's), (77, 41460), (79, 41469), (84, 41499), (95, 41535), (100, 41574), (109, 41640), (125, 41754), (129, 41763), (160, 41922), (162, 41928), (165, 41949), (166, 41955), (172, 41979), (174, 41985), (192, 42078), (209, 42150), (214, 42177), (220, 42225),

Gene: Annalisa_55 Start: 37523, Stop: 38671, Start Num: 50

Candidate Starts for Annalisa_55:

(32, 37412), (36, 37457), (Start: 50 @37523 has 158 MA's), (79, 37631), (84, 37661), (100, 37736), (125, 37916), (162, 38090), (165, 38111), (166, 38117), (172, 38141), (173, 38144), (174, 38147), (192, 38249), (195, 38258), (198, 38270), (214, 38351), (261, 38546),

Gene: Annihilator_43 Start: 33001, Stop: 34389, Start Num: 50

Candidate Starts for Annihilator_43:

(29, 32791), (Start: 45 @32980 has 45 MA's), (Start: 50 @33001 has 158 MA's), (70, 33082), (73, 33094), (78, 33115), (79, 33118), (92, 33181), (103, 33229), (108, 33262), (114, 33298), (116, 33322), (125, 33385), (127, 33391), (149, 33523), (151, 33553), (156, 33577), (162, 33604), (163, 33607), (174, 33661), (179, 33688), (220, 33895), (281, 34093), (294, 34192), (313, 34348),

Gene: Antonio_57 Start: 39712, Stop: 40860, Start Num: 50

Candidate Starts for Antonio_57:

(32, 39613), (36, 39658), (Start: 50 @39712 has 158 MA's), (79, 39823), (84, 39853), (125, 40108), (162, 40282), (165, 40303), (166, 40309), (172, 40333), (174, 40339), (185, 40402), (192, 40438), (198, 40459), (214, 40543), (220, 40591),

Gene: Antsirabe_43 Start: 34057, Stop: 35427, Start Num: 51

Candidate Starts for Antsirabe_43:

(29, 33841), (32, 33931), (Start: 43 @34021 has 4 MA's), (Start: 51 @34057 has 1 MA's), (62, 34102), (107, 34285), (110, 34312), (114, 34330), (116, 34354), (125, 34417), (142, 34498), (149, 34555), (152, 34591), (154, 34597), (156, 34609), (162, 34636), (169, 34675), (172, 34687), (174, 34693), (188, 34774), (220, 34939), (281, 35137), (309, 35359), (314, 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 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Attis_52 Start: 36845, Stop: 37990, Start Num: 50

Candidate Starts for Attis_52:

(32, 36746), (36, 36791), (Start: 50 @36845 has 158 MA's), (79, 36953), (84, 36983), (125, 37238), (127, 37244), (143, 37325), (162, 37412), (165, 37433), (166, 37439), (172, 37463), (174, 37469), (185, 37532), (192, 37568), (198, 37589), (214, 37670), (220, 37718), (222, 37727),

Gene: AuntGwenStacy_67 Start: 46458, Stop: 47585, Start Num: 50

Candidate Starts for AuntGwenStacy_67:

(Start: 50 @46458 has 158 MA's), (Start: 53 @46470 has 1 MA's), (Start: 56 @46485 has 11 MA's), (61, 46509), (65, 46527), (74, 46563), (82, 46602), (88, 46632), (93, 46659), (104, 46722), (107, 46743), (110, 46770), (115, 46797), (116, 46812), (117, 46815), (119, 46824), (120, 46827), (128, 46875), (133, 46905), (134, 46908), (157, 46995), (159, 47007), (162, 47019), (166, 47046), (172, 47070), (174, 47076), (175, 47082), (183, 47124), (184, 47127), (198, 47190), (218, 47301), (240, 47412), (253, 47454),

Gene: Avocado_44 Start: 35068, Stop: 36498, Start Num: 43

Candidate Starts for Avocado_44:

(Start: 43 @35068 has 4 MA's), (Start: 51 @35101 has 1 MA's), (62, 35143), (67, 35161), (92, 35254), (111, 35356), (114, 35371), (116, 35395), (125, 35458), (127, 35464), (144, 35560), (149, 35596), (152, 35632), (154, 35638), (156, 35650), (162, 35677), (169, 35716), (172, 35728), (174, 35734), (196, 35848), (199, 35866), (220, 36004), (281, 36208), (297, 36325), (303, 36367), (309, 36430), (314, 36466),

Gene: Avrafan_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for Avrafan_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

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

Candidate Starts for AzulaCat_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: BPs_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for BPs_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: BQuat_43 Start: 33001, Stop: 34389, Start Num: 50

Candidate Starts for BQuat_43:

(29, 32791), (Start: 45 @32980 has 45 MA's), (Start: 50 @33001 has 158 MA's), (70, 33082), (73, 33094), (78, 33115), (79, 33118), (92, 33181), (103, 33229), (108, 33262), (114, 33298), (116, 33322), (125, 33385), (127, 33391), (149, 33523), (151, 33553), (156, 33577), (162, 33604), (163, 33607), (174, 33661), (179, 33688), (220, 33895), (281, 34093), (294, 34192), (313, 34348),

Gene: Barb_57 Start: 42048, Stop: 42986, Start Num: 50

Candidate Starts for Barb_57:

(Start: 50 @42048 has 158 MA's), (75, 42129), (79, 42147), (89, 42192), (90, 42195), (116, 42333), (125, 42396), (159, 42504), (162, 42516), (166, 42543), (169, 42555), (201, 42687), (226, 42807), (230, 42825), (242, 42876), (246, 42888), (265, 42933),

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

Candidate Starts for Barkley26_43:

(29, 32807), (Start: 45 @32996 has 45 MA's), (Start: 50 @33017 has 158 MA's), (70, 33098), (73, 33110), (78, 33131), (79, 33134), (92, 33197), (103, 33245), (108, 33278), (114, 33314), (116, 33338), (125, 33401), (127, 33407), (149, 33539), (151, 33569), (156, 33593), (162, 33620), (163, 33623), (174, 33677), (179, 33704), (220, 33911), (281, 34109), (294, 34208), (313, 34364),

Gene: BaxterFox_60 Start: 41905, Stop: 43053, Start Num: 50

Candidate Starts for BaxterFox_60:

(32, 41806), (36, 41851), (Start: 50 @41905 has 158 MA's), (71, 41986), (79, 42013), (84, 42043), (109, 42184), (125, 42298), (127, 42304), (158, 42454), (162, 42472), (165, 42493), (166, 42499), (172, 42523), (174, 42529), (185, 42592), (192, 42628), (198, 42649), (214, 42730), (220, 42778), (222, 42787), (261, 42925),

Gene: BeeGee_63 Start: 41627, Stop: 42757, Start Num: 50

Candidate Starts for BeeGee_63:

(32, 41528), (36, 41573), (Start: 50 @41627 has 158 MA's), (67, 41702), (75, 41729), (79, 41747), (84, 41777), (100, 41852), (105, 41888), (127, 42038), (129, 42041), (162, 42206), (165, 42227), (166, 42233), (172, 42257), (174, 42263), (185, 42323), (198, 42371), (208, 42407), (220, 42488),

Gene: Beenie_48 Start: 37101, Stop: 38252, Start Num: 50

Candidate Starts for Beenie_48:

(32, 36990), (36, 37035), (Start: 50 @37101 has 158 MA's), (79, 37209), (84, 37239), (100, 37314), (125, 37494), (162, 37668), (165, 37689), (166, 37695), (172, 37719), (173, 37722), (174, 37725), (192, 37827), (195, 37836), (198, 37848), (214, 37929), (261, 38124), (274, 38184),

Gene: Bialota_55 Start: 40344, Stop: 41492, Start Num: 50

Candidate Starts for Bialota_55:

(32, 40245), (36, 40290), (Start: 50 @40344 has 158 MA's), (79, 40455), (84, 40485), (125, 40740), (162, 40914), (165, 40935), (166, 40941), (172, 40965), (174, 40971), (185, 41034), (192, 41070), (198, 41091), (214, 41175), (220, 41223),

Gene: Bipper_65 Start: 45903, Stop: 47054, Start Num: 50

Candidate Starts for Bipper_65:

(Start: 50 @45903 has 158 MA's), (55, 45927), (74, 46008), (79, 46029), (84, 46059), (87, 46074), (88, 46077), (101, 46161), (104, 46176), (110, 46224), (116, 46266), (117, 46269), (133, 46362), (134, 46365), (159, 46464), (162, 46476), (166, 46503), (172, 46527), (174, 46533), (175, 46539), (183, 46581), (184, 46584), (192, 46626), (240, 46878), (253, 46920), (275, 46995),

Gene: Bjaner7_51 Start: 35732, Stop: 36880, Start Num: 50

Candidate Starts for Bjaner7_51:

(Start: 50 @35732 has 158 MA's), (79, 35840), (84, 35870), (125, 36125), (127, 36131), (158, 36281), (162, 36299), (165, 36320), (166, 36326), (172, 36350), (174, 36356), (185, 36419), (192, 36455), (198, 36476), (214, 36557),

Gene: BlackJade_48 Start: 32454, Stop: 33530, Start Num: 56

Candidate Starts for BlackJade_48:

(41, 32367), (Start: 56 @32454 has 11 MA's), (66, 32502), (76, 32544), (90, 32607), (108, 32718), (113, 32745), (115, 32763), (116, 32778), (118, 32787), (162, 32961), (172, 33012), (195, 33126), (205, 33174), (252, 33378), (258, 33393),

Gene: BloominB_56 Start: 39868, Stop: 41316, Start Num: 42

Candidate Starts for BloominB_56:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

Gene: Bosnia_55 Start: 41752, Stop: 42846, Start Num: 50

Candidate Starts for Bosnia_55:

(Start: 50 @41752 has 158 MA's), (63, 41803), (67, 41821), (75, 41848), (79, 41866), (84, 41896), (109, 42001), (116, 42052), (127, 42121), (129, 42124), (162, 42289), (166, 42316), (172, 42340), (214, 42523),

Gene: BoyNamedSue_59 Start: 41196, Stop: 42341, Start Num: 50

Candidate Starts for BoyNamedSue_59:

(14, 40575), (17, 40671), (25, 40911), (32, 41097), (36, 41142), (Start: 50 @41196 has 158 MA's), (79, 41304), (84, 41334), (125, 41589), (162, 41763), (165, 41784), (166, 41790), (172, 41814), (174, 41820), (185, 41883), (192, 41919), (198, 41940),

Gene: Bradissa_54 Start: 40795, Stop: 41940, Start Num: 50

Candidate Starts for Bradissa_54:

(Start: 50 @40795 has 158 MA's), (79, 40903), (84, 40933), (125, 41188), (162, 41362), (165, 41383), (166, 41389), (172, 41413), (174, 41419), (185, 41482), (192, 41518), (198, 41539),

Gene: BruceB_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for BruceB_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331),

(125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616),
(174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Bunnybear_53 Start: 39210, Stop: 40340, Start Num: 50

Candidate Starts for Bunnybear_53:

(32, 39111), (36, 39156), (Start: 50 @39210 has 158 MA's), (67, 39285), (75, 39312), (79, 39330), (84, 39360), (95, 39396), (100, 39435), (105, 39471), (127, 39621), (129, 39624), (162, 39789), (165, 39810), (166, 39816), (172, 39840), (174, 39846), (185, 39906), (198, 39954), (208, 39990), (220, 40071), (222, 40080),

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

Candidate Starts for CLED96_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Cambiare_45 Start: 35311, Stop: 36741, Start Num: 43

Candidate Starts for Cambiare_45:

(Start: 43 @35311 has 4 MA's), (Start: 51 @35344 has 1 MA's), (62, 35386), (67, 35404), (92, 35497), (111, 35599), (114, 35614), (116, 35638), (125, 35701), (127, 35707), (144, 35803), (149, 35839), (152, 35875), (154, 35881), (156, 35893), (162, 35920), (169, 35959), (172, 35971), (174, 35977), (196, 36091), (199, 36109), (220, 36247), (281, 36451), (297, 36568), (303, 36610), (309, 36673), (314, 36709),

Gene: Camri_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for Camri_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Cashline_57 Start: 41477, Stop: 42622, Start Num: 50

Candidate Starts for Cashline_57:

(Start: 50 @41477 has 158 MA's), (79, 41585), (84, 41615), (125, 41870), (162, 42044), (165, 42065), (172, 42095), (174, 42101), (192, 42200), (198, 42221), (209, 42275), (214, 42302),

Gene: CassieYates_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for CassieYates_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Cedasite_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for Cedasite_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 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 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: CherryCola_57 Start: 42681, Stop: 43619, Start Num: 50

Candidate Starts for CherryCola_57:

(Start: 50 @42681 has 158 MA's), (75, 42762), (79, 42780), (89, 42825), (90, 42828), (116, 42966), (125, 43029), (159, 43137), (162, 43149), (166, 43176), (169, 43188), (201, 43320), (226, 43440), (230, 43458), (242, 43509), (246, 43521), (265, 43566),

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

Candidate Starts for Cherrybomb426_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: ClamChowder_57 Start: 42048, Stop: 42986, Start Num: 50

Candidate Starts for ClamChowder_57:

(Start: 50 @42048 has 158 MA's), (75, 42129), (79, 42147), (89, 42192), (90, 42195), (116, 42333), (125, 42396), (159, 42504), (162, 42516), (166, 42543), (169, 42555), (201, 42687), (226, 42807), (230, 42825), (242, 42876), (246, 42888), (265, 42933),

Gene: Clap_54 Start: 35911, Stop: 37059, Start Num: 50

Candidate Starts for Clap_54:

(Start: 50 @35911 has 158 MA's), (79, 36019), (84, 36049), (125, 36304), (127, 36310), (158, 36460), (162, 36478), (165, 36499), (166, 36505), (172, 36529), (174, 36535), (185, 36598), (192, 36634), (198, 36655), (214, 36736),

Gene: Clark_54 Start: 36918, Stop: 38069, Start Num: 50

Candidate Starts for Clark_54:

(32, 36807), (36, 36852), (Start: 50 @36918 has 158 MA's), (79, 37026), (84, 37056), (100, 37131), (125, 37311), (162, 37485), (165, 37506), (166, 37512), (172, 37536), (173, 37539), (174, 37542), (192, 37644), (195, 37653), (198, 37665), (214, 37746), (261, 37941), (274, 38001),

Gene: Cloudyecho_44 Start: 34798, Stop: 36225, Start Num: 52

Candidate Starts for Cloudyecho_44:

(29, 34588), (31, 34660), (Start: 48 @34783 has 1 MA's), (52, 34798), (62, 34843), (67, 34861), (92, 34954), (114, 35071), (116, 35095), (121, 35128), (125, 35158), (142, 35239), (149, 35296), (156, 35350), (162, 35377), (169, 35416), (172, 35428), (174, 35434), (189, 35515), (196, 35545), (199, 35563), (281, 35932), (297, 36049), (303, 36091), (308, 36151), (309, 36154), (310, 36166),

Gene: Clown_67 Start: 46683, Stop: 47642, Start Num: 50

Candidate Starts for Clown_67:

(Start: 50 @46683 has 158 MA's), (68, 46755), (75, 46779), (79, 46797), (84, 46827), (90, 46845), (109, 46932), (116, 46983), (117, 46986), (119, 46995), (162, 47166), (166, 47193), (185, 47274), (186, 47286), (234, 47508), (242, 47541), (267, 47607),

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

Candidate Starts for Coleslaw_43:

(29, 32791), (Start: 45 @32980 has 45 MA's), (Start: 50 @33001 has 158 MA's), (70, 33082), (73, 33094), (78, 33115), (79, 33118), (92, 33181), (103, 33229), (108, 33262), (114, 33298), (116, 33322), (125, 33385), (127, 33391), (149, 33523), (151, 33553), (156, 33577), (162, 33604), (163, 33607), (174, 33661), (179, 33688), (220, 33895), (281, 34093), (294, 34192), (313, 34348),

Gene: Confidence_58 Start: 39325, Stop: 40473, Start Num: 50

Candidate Starts for Confidence_58:

(Start: 50 @39325 has 158 MA's), (79, 39433), (84, 39463), (97, 39511), (125, 39718), (127, 39724), (162, 39892), (165, 39913), (166, 39919), (172, 39943), (174, 39949), (185, 40012), (192, 40048), (198, 40069), (220, 40201),

Gene: CoveyB_57 Start: 41726, Stop: 42664, Start Num: 50

Candidate Starts for CoveyB_57:

(Start: 50 @41726 has 158 MA's), (75, 41807), (79, 41825), (89, 41870), (90, 41873), (116, 42011), (125, 42074), (159, 42182), (162, 42194), (166, 42221), (169, 42233), (201, 42365), (226, 42485), (230, 42503), (242, 42554), (246, 42566), (265, 42611),

Gene: Cracklewink_64 Start: 44937, Stop: 46088, Start Num: 50

Candidate Starts for Cracklewink_64:

(Start: 50 @44937 has 158 MA's), (55, 44961), (74, 45042), (79, 45063), (84, 45093), (87, 45108), (88, 45111), (101, 45195), (104, 45210), (110, 45258), (116, 45300), (117, 45303), (133, 45396), (134, 45399), (159, 45498), (162, 45510), (166, 45537), (172, 45561), (174, 45567), (175, 45573), (183, 45615), (184, 45618), (192, 45660), (240, 45912), (253, 45954), (275, 46029),

Gene: Crespo_43 Start: 33011, Stop: 34399, Start Num: 50

Candidate Starts for Crespo_43:

(29, 32801), (Start: 45 @32990 has 45 MA's), (Start: 50 @33011 has 158 MA's), (70, 33092), (73, 33104), (78, 33125), (79, 33128), (92, 33191), (103, 33239), (108, 33272), (114, 33308), (116, 33332), (125, 33395), (127, 33401), (149, 33533), (151, 33563), (156, 33587), (162, 33614), (163, 33617), (174, 33671), (179, 33698), (220, 33905), (281, 34103), (294, 34202), (313, 34358),

Gene: Cynthia_54 Start: 35909, Stop: 37057, Start Num: 50

Candidate Starts for Cynthia_54:

(Start: 50 @35909 has 158 MA's), (79, 36017), (84, 36047), (125, 36302), (127, 36308), (158, 36458), (162, 36476), (165, 36497), (166, 36503), (172, 36527), (174, 36533), (185, 36596), (192, 36632), (198, 36653), (214, 36734),

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

Candidate Starts for DMoney_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: DNAIII_0042 Start: 31644, Stop: 33047, Start Num: 50

Candidate Starts for DNAIII_0042:

(6, 30657), (15, 31029), (18, 31182), (Start: 45 @31623 has 45 MA's), (Start: 50 @31644 has 158 MA's), (70, 31725), (73, 31737), (78, 31758), (79, 31761), (92, 31824), (103, 31872), (108, 31905), (114, 31941), (116, 31965), (125, 32028), (149, 32166), (151, 32196), (156, 32220), (162, 32247), (163, 32250), (172, 32298), (174, 32304), (179, 32331), (209, 32484), (220, 32547), (281, 32751), (294, 32850),

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

Candidate Starts for Daegal_58:

(Start: 42 @40452 has 22 MA's), (62, 40530), (67, 40551), (69, 40557), (74, 40575), (77, 40587), (79, 40596), (81, 40608), (84, 40626), (92, 40641), (94, 40644), (107, 40713), (109, 40731), (116, 40782), (119, 40794), (131, 40878), (141, 40944), (145, 40980), (148, 40989), (156, 41055), (161, 41079), (162, 41082), (164, 41097), (169, 41121), (173, 41136), (174, 41139), (179, 41166), (197, 41256), (212, 41331), (233, 41469), (235, 41472), (280, 41619), (281, 41631), (283, 41652), (289, 41706), (290, 41709), (291, 41718), (293, 41730), (299, 41772), (301, 41787), (312, 41889),

Gene: Darionha_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for Darionha_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

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

Candidate Starts for DeepSoil15_56:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

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

Candidate Starts for Dewey_53:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

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

Candidate Starts for DingDing_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Divya_44 Start: 31944, Stop: 32978, Start Num: 56

Candidate Starts for Divya_44:

(Start: 56 @31944 has 11 MA's), (76, 32028), (90, 32091), (106, 32187), (108, 32202), (113, 32229), (115, 32247), (116, 32262), (120, 32277), (126, 32328), (162, 32445), (172, 32496), (181, 32538), (195, 32598), (205, 32646), (218, 32718), (256, 32838), (258, 32841), (262, 32859), (266, 32874),

Gene: DobbysSock_47 Start: 35760, Stop: 36911, Start Num: 50

Candidate Starts for DobbysSock_47:

(32, 35649), (36, 35694), (Start: 50 @35760 has 158 MA's), (79, 35868), (84, 35898), (100, 35973), (125, 36153), (162, 36327), (165, 36348), (166, 36354), (172, 36378), (173, 36381), (174, 36384), (192, 36486), (195, 36495), (198, 36507), (214, 36588), (261, 36783), (274, 36843),

Gene: Dolores_56 Start: 37680, Stop: 38807, Start Num: 50

Candidate Starts for Dolores_56:

(32, 37581), (36, 37626), (Start: 50 @37680 has 158 MA's), (63, 37731), (67, 37749), (75, 37776), (79, 37794), (84, 37824), (100, 37899), (105, 37935), (125, 38079), (162, 38253), (165, 38274), (166, 38280), (174, 38310), (185, 38373), (214, 38487), (261, 38682),

Gene: Dorito_50 Start: 35405, Stop: 36556, Start Num: 50

Candidate Starts for Dorito_50:

(32, 35294), (36, 35339), (Start: 50 @35405 has 158 MA's), (79, 35513), (84, 35543), (100, 35618), (125, 35798), (127, 35804), (162, 35972), (165, 35993), (166, 35999), (172, 36023), (173, 36026), (174, 36029), (192, 36131), (195, 36140), (198, 36152), (214, 36233), (261, 36428),

Gene: DumpsterDude_56 Start: 42953, Stop: 44038, Start Num: 50

Candidate Starts for DumpsterDude_56:

(Start: 50 @42953 has 158 MA's), (67, 43025), (75, 43052), (79, 43070), (84, 43100), (109, 43205), (113, 43223), (116, 43256), (125, 43319), (162, 43493), (166, 43520), (172, 43544), (214, 43727), (220, 43775), (224, 43793), (261, 43922), (263, 43931), (274, 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 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: EMSquaredA_57 Start: 40371, Stop: 41510, Start Num: 50

Candidate Starts for EMSquaredA_57:

(14, 39750), (17, 39846), (25, 40086), (32, 40272), (36, 40317), (Start: 50 @40371 has 158 MA's), (79, 40479), (84, 40509), (125, 40764), (162, 40938), (165, 40959), (166, 40965), (172, 40989), (174, 40995), (185, 41058), (192, 41094), (198, 41115), (214, 41193),

Gene: Easley_52 Start: 36887, Stop: 37981, Start Num: 50

Candidate Starts for Easley_52:

(Start: 50 @36887 has 158 MA's), (67, 36956), (75, 36983), (79, 37001), (84, 37031), (113, 37154), (116, 37187), (117, 37190), (127, 37256), (129, 37259), (153, 37385), (162, 37424), (166, 37451), (214, 37658), (261, 37853),

Gene: Ebert_58 Start: 36343, Stop: 37491, Start Num: 50

Candidate Starts for Ebert_58:

(Start: 50 @36343 has 158 MA's), (79, 36451), (84, 36481), (125, 36736), (127, 36742), (158, 36892), (162, 36910), (165, 36931), (166, 36937), (172, 36961), (174, 36967), (185, 37030), (192, 37066), (198, 37087), (214, 37168),

Gene: EdnaMode_51 Start: 35533, Stop: 36681, Start Num: 50

Candidate Starts for EdnaMode_51:

(32, 35434), (36, 35479), (Start: 50 @35533 has 158 MA's), (79, 35644), (84, 35674), (125, 35929), (162, 36103), (165, 36124), (166, 36130), (172, 36154), (174, 36160), (185, 36223), (192, 36259), (198, 36280), (214, 36364), (220, 36412),

Gene: Egi03_55 Start: 41529, Stop: 42467, Start Num: 50

Candidate Starts for Egi03_55:

(Start: 50 @41529 has 158 MA's), (75, 41610), (79, 41628), (89, 41673), (90, 41676), (116, 41814), (125, 41877), (159, 41985), (162, 41997), (166, 42024), (169, 42036), (201, 42168), (226, 42288),

(230, 42306), (242, 42357), (246, 42369), (265, 42414),

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

Candidate Starts for Ein37_56:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

Gene: EnalisNailo_54 Start: 40338, Stop: 41486, Start Num: 50

Candidate Starts for EnalisNailo_54:

(20, 39933), (29, 40137), (36, 40272), (Start: 50 @40338 has 158 MA's), (79, 40449), (84, 40479), (125, 40734), (127, 40740), (162, 40908), (165, 40929), (166, 40935), (172, 40959), (174, 40965), (185, 41028), (192, 41064), (198, 41085),

Gene: Eudoria_57 Start: 39712, Stop: 40860, Start Num: 50

Candidate Starts for Eudoria_57:

(32, 39613), (36, 39658), (Start: 50 @39712 has 158 MA's), (79, 39823), (84, 39853), (125, 40108), (162, 40282), (165, 40303), (166, 40309), (172, 40333), (174, 40339), (185, 40402), (192, 40438), (198, 40459), (214, 40543), (220, 40591),

Gene: Evamon_54 Start: 41774, Stop: 42724, Start Num: 50

Candidate Starts for Evamon_54:

(Start: 50 @41774 has 158 MA's), (75, 41867), (79, 41885), (84, 41915), (116, 42071), (119, 42083), (162, 42254), (201, 42425), (226, 42545), (230, 42563), (242, 42614), (246, 42626), (265, 42671),

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

Candidate Starts for Evanescce_55:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 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 45 MA's), (Start: 50 @30910 has 158 MA's), (79, 31024), (84, 31054), (100, 31129), (103, 31153), (110, 31204), (125, 31309), (162, 31486), (165, 31507), (166, 31513), (172, 31537), (264, 31939), (269, 31963),

Gene: Faiyaz_67 Start: 46461, Stop: 47591, Start Num: 50

Candidate Starts for Faiyaz_67:

(Start: 50 @46461 has 158 MA's), (Start: 53 @46473 has 1 MA's), (Start: 56 @46488 has 11 MA's), (61, 46515), (65, 46533), (74, 46569), (82, 46608), (88, 46638), (93, 46665), (104, 46728), (107, 46749), (110, 46776), (115, 46803), (116, 46818), (117, 46821), (119, 46830), (120, 46833), (128, 46881), (133, 46911), (134, 46914), (157, 47001), (159, 47013), (162, 47025), (166, 47052), (172, 47076), (174, 47082), (175, 47088), (183, 47130), (184, 47133), (198, 47196), (218, 47307), (240, 47418), (253, 47460),

Gene: Farewell_59 Start: 40067, Stop: 41413, Start Num: 54

Candidate Starts for Farewell_59:

(Start: 54 @40067 has 1 MA's), (62, 40109), (73, 40151), (79, 40175), (80, 40181), (85, 40205), (90, 40223), (105, 40286), (107, 40298), (109, 40316), (116, 40367), (117, 40370), (121, 40400), (125, 40430), (127, 40436), (137, 40496), (142, 40511), (149, 40568), (156, 40622), (162, 40649), (166, 40676), (172, 40700), (281, 41138), (286, 41183), (287, 41213), (294, 41249), (303, 41309),

Gene: FlagStaff_43 Start: 34088, Stop: 35491, Start Num: 43

Candidate Starts for FlagStaff_43:

(Start: 43 @34088 has 4 MA's), (Start: 51 @34121 has 1 MA's), (62, 34166), (67, 34184), (92, 34277), (114, 34394), (116, 34418), (118, 34427), (125, 34481), (142, 34562), (144, 34583), (149, 34619), (152, 34655), (156, 34673), (162, 34700), (169, 34739), (172, 34751), (174, 34757), (281, 35195), (297, 35312), (300, 35339), (301, 35345), (303, 35354), (305, 35390), (308, 35414), (309, 35417),

Gene: Floral_58 Start: 42256, Stop: 43395, Start Num: 50

Candidate Starts for Floral_58:

(25, 41971), (32, 42157), (36, 42202), (Start: 50 @42256 has 158 MA's), (79, 42364), (84, 42394), (100, 42469), (125, 42649), (127, 42655), (162, 42823), (165, 42844), (166, 42850), (172, 42874), (174, 42880), (185, 42943), (192, 42979), (198, 43000), (214, 43078),

Gene: ForeverHowLong_43 Start: 33005, Stop: 34393, Start Num: 50

Candidate Starts for ForeverHowLong_43:

(29, 32795), (Start: 45 @32984 has 45 MA's), (Start: 50 @33005 has 158 MA's), (70, 33086), (73, 33098), (78, 33119), (79, 33122), (92, 33185), (103, 33233), (108, 33266), (114, 33302), (116, 33326), (125, 33389), (127, 33395), (149, 33527), (151, 33557), (156, 33581), (162, 33608), (163, 33611), (174, 33665), (179, 33692), (220, 33899), (281, 34097), (294, 34196), (313, 34352),

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

Candidate Starts for Forge_53:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

Gene: FroggyToad_53 Start: 36278, Stop: 37378, Start Num: 50

Candidate Starts for FroggyToad_53:

(Start: 50 @36278 has 158 MA's), (67, 36350), (75, 36377), (79, 36395), (84, 36425), (90, 36443), (116, 36581), (127, 36650), (162, 36818), (166, 36845), (172, 36869), (207, 37019), (214, 37055),

Gene: Frokostdame_59 Start: 39496, Stop: 40542, Start Num: 56

Candidate Starts for Frokostdame_59:

(30, 39265), (33, 39352), (34, 39370), (46, 39451), (Start: 56 @39496 has 11 MA's), (64, 39544), (84, 39631), (103, 39721), (116, 39814), (122, 39850), (123, 39853), (126, 39880), (167, 40024), (170, 40036), (171, 40039), (215, 40207), (233, 40306), (239, 40312), (250, 40351), (258, 40369), (259, 40372), (266, 40408), (273, 40441),

Gene: Frosty24_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for Frosty24_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Fugax_58 Start: 42040, Stop: 42978, Start Num: 50

Candidate Starts for Fugax_58:

(Start: 50 @42040 has 158 MA's), (75, 42121), (79, 42139), (89, 42184), (90, 42187), (116, 42325), (125, 42388), (159, 42496), (162, 42508), (166, 42535), (169, 42547), (201, 42679), (226, 42799), (230, 42817), (242, 42868), (246, 42880), (265, 42925),

Gene: GUPitcher_52 Start: 34446, Stop: 35414, Start Num: 53

Candidate Starts for GUPitcher_52:

(Start: 53 @34446 has 1 MA's), (60, 34479), (72, 34524), (75, 34533), (108, 34677), (112, 34701), (113, 34704), (115, 34722), (116, 34737), (120, 34752), (124, 34779), (135, 34845), (162, 34920), (178, 34998), (180, 35007),

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

Candidate Starts for Gancho_55:

(Start: 42 @39591 has 22 MA's), (62, 39669), (67, 39690), (69, 39696), (74, 39714), (77, 39726), (79, 39735), (81, 39747), (84, 39765), (92, 39780), (94, 39783), (107, 39852), (109, 39870), (116, 39921), (131, 40017), (141, 40083), (145, 40119), (148, 40128), (156, 40194), (161, 40218), (162, 40221), (164, 40236), (169, 40260), (173, 40275), (174, 40278), (179, 40305), (197, 40395), (212, 40470), (233, 40596), (235, 40599), (280, 40746), (281, 40758), (283, 40779), (289, 40833), (290, 40836), (291, 40845), (293, 40857), (299, 40899), (301, 40914), (312, 41016),

Gene: GemG_54 Start: 35915, Stop: 37063, Start Num: 50

Candidate Starts for GemG_54:

(Start: 50 @35915 has 158 MA's), (79, 36023), (84, 36053), (125, 36308), (127, 36314), (158, 36464), (162, 36482), (165, 36503), (166, 36509), (172, 36533), (174, 36539), (185, 36602), (192, 36638), (198, 36659), (214, 36740),

Gene: Gezellig_54 Start: 41879, Stop: 42817, Start Num: 50

Candidate Starts for Gezellig_54:

(Start: 50 @41879 has 158 MA's), (75, 41960), (79, 41978), (89, 42023), (90, 42026), (116, 42164), (125, 42227), (159, 42335), (162, 42347), (166, 42374), (169, 42386), (201, 42518), (226, 42638), (230, 42656), (242, 42707), (246, 42719), (265, 42764),

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

Candidate Starts for Gideon_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

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

Candidate Starts for Giles_53:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

Gene: Gizermo_54 Start: 35911, Stop: 37059, Start Num: 50

Candidate Starts for Gizermo_54:

(Start: 50 @35911 has 158 MA's), (79, 36019), (84, 36049), (125, 36304), (127, 36310), (158, 36460), (162, 36478), (165, 36499), (166, 36505), (172, 36529), (174, 36535), (185, 36598), (192, 36634), (198, 36655), (214, 36736),

Gene: GodSpeed_44 Start: 34218, Stop: 35585, Start Num: 51

Candidate Starts for GodSpeed_44:

(Start: 43 @34191 has 4 MA's), (Start: 51 @34218 has 1 MA's), (62, 34266), (92, 34377), (111, 34479), (114, 34494), (116, 34518), (125, 34581), (144, 34683), (149, 34719), (152, 34755), (154, 34761), (155, 34764), (156, 34773), (162, 34800), (169, 34839), (174, 34857), (199, 34992), (281, 35298), (297, 35415), (302, 35451), (306, 35499), (307, 35508), (309, 35520),

Gene: GoldDust_35 Start: 31181, Stop: 32251, Start Num: 56

Candidate Starts for GoldDust_35:

(Start: 56 @31181 has 11 MA's), (76, 31256), (108, 31430), (115, 31475), (116, 31490), (121, 31523), (162, 31673), (168, 31709), (172, 31724), (258, 32099),

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

Candidate Starts for GoldenAsh_43:

(29, 32785), (Start: 45 @32974 has 45 MA's), (Start: 50 @32995 has 158 MA's), (70, 33076), (73, 33088), (78, 33109), (79, 33112), (92, 33175), (103, 33223), (108, 33256), (114, 33292), (116, 33316), (125, 33379), (127, 33385), (149, 33517), (151, 33547), (156, 33571), (162, 33598), (163, 33601), (174, 33655), (179, 33682), (220, 33889), (281, 34087), (294, 34186), (313, 34342),

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

Candidate Starts for Gomashi_43:

(29, 32801), (Start: 45 @32990 has 45 MA's), (Start: 50 @33011 has 158 MA's), (70, 33092), (73, 33104), (78, 33125), (79, 33128), (92, 33191), (103, 33239), (108, 33272), (114, 33308), (116, 33332), (125, 33395), (127, 33401), (149, 33533), (151, 33563), (156, 33587), (162, 33614), (163, 33617), (174, 33671), (179, 33698), (220, 33905), (281, 34103), (294, 34202), (313, 34358),

Gene: Gooberta_35 Start: 31180, Stop: 32250, Start Num: 56

Candidate Starts for Gooberta_35:

(Start: 56 @31180 has 11 MA's), (76, 31255), (108, 31429), (115, 31474), (116, 31489), (121, 31522), (162, 31672), (168, 31708), (172, 31723), (258, 32098),

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

Candidate Starts for Gravaillia_54:

(19, 39504), (24, 39591), (Start: 42 @39882 has 22 MA's), (62, 39957), (67, 39978), (74, 40002), (79, 40023), (84, 40053), (92, 40068), (94, 40071), (107, 40140), (116, 40209), (131, 40305), (141, 40371), (145, 40407), (148, 40416), (156, 40482), (161, 40506), (162, 40509), (164, 40524), (169, 40548), (173, 40563), (174, 40566), (179, 40593), (187, 40650), (197, 40695), (233, 40902), (235, 40905), (280, 41043), (281, 41055), (283, 41076), (288, 41124), (289, 41130), (290, 41133), (291, 41142), (293, 41154), (299, 41196), (301, 41211), (307, 41271), (312, 41313),

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

Candidate Starts for Grizzly_43:

(29, 32785), (Start: 45 @32974 has 45 MA's), (Start: 50 @32995 has 158 MA's), (70, 33076), (73, 33088), (78, 33109), (79, 33112), (92, 33175), (103, 33223), (108, 33256), (114, 33292), (116, 33316), (125, 33379), (127, 33385), (149, 33517), (151, 33547), (156, 33571), (162, 33598), (163, 33601), (174, 33655), (179, 33682), (220, 33889), (281, 34093), (294, 34192), (313, 34348),

Gene: Gudmit_46 Start: 30435, Stop: 31343, Start Num: 50

Candidate Starts for Gudmit_46:

(20, 30033), (32, 30327), (36, 30372), (Start: 50 @30435 has 158 MA's), (59, 30453), (75, 30513), (79, 30531), (89, 30576), (104, 30627), (116, 30717), (121, 30750), (125, 30780), (159, 30888), (160, 30894), (162, 30900), (166, 30927), (169, 30939), (180, 30990), (185, 31008), (193, 31035), (226, 31173), (230, 31191), (244, 31251), (267, 31308),

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

Candidate Starts for HH92_55:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

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

Candidate Starts for Hadrien_55:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

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

Candidate Starts for Hail_53:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

Gene: Haley23_54 Start: 35911, Stop: 37059, Start Num: 50

Candidate Starts for Haley23_54:

(Start: 50 @35911 has 158 MA's), (79, 36019), (84, 36049), (125, 36304), (127, 36310), (158, 36460), (162, 36478), (165, 36499), (166, 36505), (172, 36529), (174, 36535), (185, 36598), (192, 36634), (198, 36655), (214, 36736),

Gene: Halo_43 Start: 33005, Stop: 34393, Start Num: 50

Candidate Starts for Halo_43:

(29, 32795), (Start: 45 @32984 has 45 MA's), (Start: 50 @33005 has 158 MA's), (70, 33086), (73, 33098), (78, 33119), (79, 33122), (92, 33185), (103, 33233), (108, 33266), (114, 33302), (116, 33326), (125, 33389), (127, 33395), (149, 33527), (151, 33557), (156, 33581), (162, 33608), (163, 33611), (174, 33665), (179, 33692), (220, 33899), (281, 34097), (294, 34196), (313, 34352),

Gene: Halo3_55 Start: 42464, Stop: 43402, Start Num: 50

Candidate Starts for Halo3_55:

(Start: 50 @42464 has 158 MA's), (75, 42545), (79, 42563), (89, 42608), (90, 42611), (116, 42749), (125, 42812), (159, 42920), (162, 42932), (166, 42959), (169, 42971), (201, 43103), (226, 43223), (230, 43241), (242, 43292), (246, 43304), (265, 43349),

Gene: Herod_58 Start: 42170, Stop: 43321, Start Num: 50

Candidate Starts for Herod_58:

(Start: 50 @42170 has 158 MA's), (79, 42278), (84, 42308), (125, 42563), (162, 42737), (165, 42758), (172, 42788), (174, 42794), (192, 42893), (198, 42914), (214, 42998), (220, 43046), (222, 43055), (261, 43193),

Gene: Hilltopfarm_66 Start: 46161, Stop: 47291, Start Num: 50

Candidate Starts for Hilltopfarm_66:

(Start: 50 @46161 has 158 MA's), (Start: 53 @46173 has 1 MA's), (Start: 56 @46188 has 11 MA's), (61, 46215), (65, 46233), (74, 46269), (82, 46308), (88, 46338), (93, 46365), (104, 46428), (107, 46449), (110, 46476), (115, 46503), (116, 46518), (117, 46521), (119, 46530), (120, 46533), (128, 46581), (133, 46611), (134, 46614), (157, 46701), (159, 46713), (162, 46725), (166, 46752), (172, 46776), (174, 46782), (175, 46788), (183, 46830), (184, 46833), (198, 46899), (218, 47010), (240, 47121),

Gene: Hirko_35 Start: 30939, Stop: 32009, Start Num: 56

Candidate Starts for Hirko_35:

(21, 30504), (23, 30555), (Start: 56 @30939 has 11 MA's), (76, 31017), (98, 31116), (108, 31191), (115, 31236), (116, 31251), (162, 31434), (168, 31470), (172, 31485), (180, 31521), (223, 31740), (258, 31860),

Gene: Hope_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for Hope_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Hortense_59 Start: 41999, Stop: 43018, Start Num: 50

Candidate Starts for Hortense_59:

(27, 41771), (35, 41936), (38, 41945), (39, 41957), (Start: 50 @41999 has 158 MA's), (75, 42083), (81, 42104), (95, 42149), (96, 42152), (104, 42200), (107, 42221), (115, 42275), (116, 42290), (130, 42353), (138, 42392), (162, 42473), (175, 42536), (214, 42698), (261, 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 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Howe_59 Start: 41999, Stop: 43018, Start Num: 50

Candidate Starts for Howe_59:

(27, 41771), (35, 41936), (38, 41945), (39, 41957), (Start: 50 @41999 has 158 MA's), (75, 42083), (81, 42104), (95, 42149), (96, 42152), (104, 42200), (107, 42221), (115, 42275), (116, 42290), (130, 42353), (138, 42392), (162, 42473), (175, 42536), (214, 42698), (261, 42893),

Gene: Hugley_56 Start: 42150, Stop: 43301, Start Num: 50

Candidate Starts for Hugley_56:

(Start: 50 @42150 has 158 MA's), (79, 42258), (84, 42288), (125, 42543), (162, 42717), (165, 42738), (172, 42768), (174, 42774), (192, 42873), (198, 42894), (214, 42978), (220, 43026), (222, 43035), (261, 43173),

Gene: Hyzer_66 Start: 44114, Stop: 45265, Start Num: 50

Candidate Starts for Hyzer_66:

(25, 43829), (32, 44015), (36, 44060), (Start: 50 @44114 has 158 MA's), (79, 44222), (84, 44252), (125, 44507), (127, 44513), (162, 44681), (165, 44702), (166, 44708), (172, 44732), (174, 44738), (192, 44837), (198, 44858), (229, 45044), (265, 45155),

Gene: Invecetra_56 Start: 38492, Stop: 39643, Start Num: 50

Candidate Starts for Invecetra_56:

(32, 38381), (36, 38426), (Start: 50 @38492 has 158 MA's), (79, 38600), (84, 38630), (100, 38705), (125, 38885), (162, 39059), (165, 39080), (166, 39086), (172, 39110), (173, 39113), (174, 39116), (192, 39218), (195, 39227), (198, 39239), (214, 39320), (261, 39515), (274, 39575),

Gene: JCole_51 Start: 34606, Stop: 35700, Start Num: 50

Candidate Starts for JCole_51:

(Start: 50 @34606 has 158 MA's), (63, 34657), (67, 34675), (75, 34702), (79, 34720), (84, 34750), (109, 34855), (116, 34906), (127, 34975), (129, 34978), (162, 35143), (166, 35170), (172, 35194), (214, 35383), (253, 35572),

Gene: Jablanski_60 Start: 43190, Stop: 44338, Start Num: 50

Candidate Starts for Jablanski_60:

(Start: 50 @43190 has 158 MA's), (79, 43298), (84, 43328), (125, 43583), (127, 43589), (162, 43757), (165, 43778), (166, 43784), (172, 43808), (174, 43814), (185, 43877), (192, 43913), (198, 43934), (214, 44018), (220, 44066),

Gene: Jalleen_54 Start: 35550, Stop: 36698, Start Num: 50

Candidate Starts for Jalleen_54:

(Start: 50 @35550 has 158 MA's), (79, 35658), (84, 35688), (125, 35943), (127, 35949), (158, 36099), (162, 36117), (165, 36138), (166, 36144), (172, 36168), (174, 36174), (185, 36237), (192, 36273), (198, 36294), (214, 36375),

Gene: Jane_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for Jane_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Jeilious_43 Start: 33009, Stop: 34397, Start Num: 50

Candidate Starts for Jeilious_43:

(29, 32799), (Start: 45 @32988 has 45 MA's), (Start: 50 @33009 has 158 MA's), (70, 33090), (73, 33102), (78, 33123), (79, 33126), (92, 33189), (103, 33237), (108, 33270), (114, 33306), (116, 33330), (125, 33393), (127, 33399), (149, 33531), (151, 33561), (156, 33585), (162, 33612), (163, 33615), (174, 33669), (179, 33696), (220, 33903), (281, 34101), (294, 34200), (313, 34356),

Gene: Jinkies_41 Start: 32040, Stop: 33080, Start Num: 56

Candidate Starts for Jinkies_41:

(34, 31914), (Start: 56 @32040 has 11 MA's), (76, 32124), (90, 32187), (108, 32298), (113, 32325), (115, 32343), (116, 32358), (120, 32373), (142, 32505), (162, 32541), (256, 32940), (258, 32943), (262, 32961), (276, 33030),

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

Candidate Starts for Jolene_43:

(18, 32548), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331),

(125, 33394), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (172, 33664), (174, 33670), (179, 33697), (209, 33850), (220, 33913), (281, 34117), (294, 34216),

Gene: Jolie2_43 Start: 33530, Stop: 34966, Start Num: 49

Candidate Starts for Jolie2_43:

(7, 32540), (15, 32903), (32, 33401), (49, 33530), (62, 33587), (70, 33620), (73, 33632), (86, 33689), (92, 33701), (109, 33791), (111, 33803), (114, 33818), (116, 33842), (118, 33851), (125, 33905), (146, 34016), (156, 34091), (162, 34118), (166, 34145), (172, 34169), (174, 34175), (220, 34415), (251, 34532), (281, 34670), (294, 34769), (297, 34787), (300, 34814), (305, 34865), (307, 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 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

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

Candidate Starts for JorRay_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: KappaFarmDelta_60 Start: 38335, Stop: 39300, Start Num: 50

Candidate Starts for KappaFarmDelta_60:

(Start: 50 @38335 has 158 MA's), (75, 38422), (79, 38440), (83, 38467), (84, 38470), (109, 38575), (110, 38584), (116, 38626), (162, 38809), (166, 38836), (172, 38860), (186, 38926), (194, 38953), (268, 39238),

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

Candidate Starts for Kareem_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

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

Candidate Starts for Kasen3_43:

(29, 32786), (Start: 45 @32975 has 45 MA's), (Start: 50 @32996 has 158 MA's), (70, 33077), (73, 33089), (78, 33110), (79, 33113), (92, 33176), (103, 33224), (108, 33257), (114, 33293), (116, 33317), (125, 33380), (127, 33386), (149, 33518), (151, 33548), (156, 33572), (162, 33599), (163, 33602), (174, 33656), (179, 33683), (220, 33890), (281, 34088), (294, 34187), (313, 34343),

Gene: KimmyK_56 Start: 42482, Stop: 43420, Start Num: 50

Candidate Starts for KimmyK_56:

(Start: 50 @42482 has 158 MA's), (75, 42563), (79, 42581), (89, 42626), (90, 42629), (116, 42767), (125, 42830), (159, 42938), (162, 42950), (166, 42977), (169, 42989), (201, 43121), (226, 43241), (230, 43259), (242, 43310), (246, 43322), (265, 43367),

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

Candidate Starts for Kinbote_55:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

Gene: Kita_58 Start: 39721, Stop: 40869, Start Num: 50

Candidate Starts for Kita_58:

(32, 39622), (36, 39667), (Start: 50 @39721 has 158 MA's), (79, 39832), (84, 39862), (125, 40117), (162, 40291), (165, 40312), (166, 40318), (172, 40342), (174, 40348), (185, 40411), (192, 40447), (198, 40468), (214, 40552), (220, 40600),

Gene: Kukla_53 Start: 33677, Stop: 34645, Start Num: 53

Candidate Starts for Kukla_53:

(Start: 53 @33677 has 1 MA's), (60, 33710), (72, 33755), (75, 33764), (108, 33908), (112, 33932), (113, 33935), (115, 33953), (116, 33968), (120, 33983), (124, 34010), (162, 34151), (172, 34202), (178, 34229), (180, 34238), (278, 34634),

Gene: Lamberg_50 Start: 34420, Stop: 35568, Start Num: 50

Candidate Starts for Lamberg_50:

(Start: 50 @34420 has 158 MA's), (79, 34528), (84, 34558), (125, 34813), (127, 34819), (158, 34969), (162, 34987), (165, 35008), (166, 35014), (172, 35038), (174, 35044), (185, 35107), (192, 35143), (198, 35164), (214, 35245),

Gene: Lemuria_45 Start: 34871, Stop: 36319, Start Num: 50

Candidate Starts for Lemuria_45:

(4, 33845), (13, 34187), (15, 34241), (16, 34295), (22, 34469), (31, 34721), (44, 34841), (Start: 50 @34871 has 158 MA's), (62, 34931), (70, 34964), (73, 34976), (86, 35033), (92, 35045), (111, 35147), (114, 35162), (116, 35186), (118, 35195), (148, 35366), (156, 35435), (162, 35462), (172, 35513), (174, 35519), (179, 35546), (196, 35651), (220, 35777), (260, 35918), (281, 36023), (294, 36122), (303, 36182), (304, 36191), (305, 36218), (307, 36233),

Gene: Liefie_43 Start: 33008, Stop: 34411, Start Num: 50

Candidate Starts for Liefie_43:

(6, 32021), (15, 32393), (18, 32546), (Start: 45 @32987 has 45 MA's), (Start: 50 @33008 has 158 MA's), (70, 33089), (73, 33101), (78, 33122), (79, 33125), (92, 33188), (103, 33236), (108, 33269), (111, 33290), (114, 33305), (116, 33329), (125, 33392), (149, 33530), (151, 33560), (156, 33584), (162, 33611), (163, 33614), (172, 33662), (174, 33668), (179, 33695), (209, 33848), (220, 33911), (281, 34115), (294, 34214),

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

Candidate Starts for LilHazelnut_56:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

Gene: Lilas_56 Start: 42094, Stop: 43239, Start Num: 50

Candidate Starts for Lilas_56:

(3, 41095), (14, 41473), (17, 41569), (25, 41809), (32, 41995), (36, 42040), (Start: 50 @42094 has 158 MA's), (79, 42202), (84, 42232), (125, 42487), (162, 42661), (165, 42682), (166, 42688), (172, 42712), (174, 42718), (185, 42781), (192, 42817), (198, 42838),

Gene: LonelyBoi_56 Start: 42240, Stop: 43370, Start Num: 50

Candidate Starts for LonelyBoi_56:

(32, 42141), (36, 42186), (Start: 50 @42240 has 158 MA's), (67, 42315), (75, 42342), (79, 42360), (84, 42390), (100, 42465), (105, 42501), (127, 42651), (129, 42654), (162, 42819), (165, 42840), (166, 42846), (172, 42870), (174, 42876), (198, 42984), (208, 43020), (220, 43101),

Gene: LordFarquaad_54 Start: 36826, Stop: 37971, Start Num: 50

Candidate Starts for LordFarquaad_54:

(32, 36727), (36, 36772), (Start: 50 @36826 has 158 MA's), (79, 36934), (84, 36964), (125, 37219), (127, 37225), (143, 37306), (162, 37393), (165, 37414), (166, 37420), (172, 37444), (174, 37450), (185, 37513), (192, 37549), (198, 37570), (214, 37651), (220, 37699), (222, 37708),

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

Candidate Starts for LouisV14_45:

(29, 35065), (Start: 45 @35254 has 45 MA's), (Start: 50 @35275 has 158 MA's), (70, 35356), (73, 35368), (78, 35389), (79, 35392), (92, 35455), (103, 35503), (108, 35536), (114, 35572), (116, 35596), (125, 35659), (127, 35665), (149, 35797), (151, 35827), (156, 35851), (162, 35878), (163, 35881), (174, 35935), (179, 35962), (220, 36169), (281, 36367), (294, 36466), (313, 36622),

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

Candidate Starts for Luke_55:

(Start: 42 @39823 has 22 MA's), (62, 39901), (67, 39922), (69, 39928), (74, 39946), (77, 39958), (79, 39967), (81, 39979), (84, 39997), (92, 40012), (94, 40015), (107, 40084), (109, 40102), (116, 40153), (119, 40165), (131, 40249), (141, 40315), (145, 40351), (148, 40360), (156, 40426), (161, 40450), (162, 40453), (164, 40468), (169, 40492), (173, 40507), (174, 40510), (179, 40537), (187, 40594), (197, 40639), (233, 40840), (235, 40843), (280, 40990), (281, 41002), (283, 41023), (289, 41077), (290, 41080), (291, 41089), (293, 41101), (299, 41143), (301, 41158), (312, 41260),

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

Candidate Starts for Luna22_53:

(Start: 42 @39852 has 22 MA's), (62, 39930), (67, 39951), (69, 39957), (74, 39975), (77, 39987), (79, 39996), (81, 40008), (84, 40026), (92, 40041), (94, 40044), (107, 40113), (109, 40131), (116, 40182), (119, 40194), (131, 40278), (141, 40344), (145, 40380), (148, 40389), (156, 40455), (161, 40479), (162, 40482), (164, 40497), (169, 40521), (173, 40536), (174, 40539), (179, 40566), (187, 40623), (197, 40668), (233, 40869), (235, 40872), (280, 41019), (281, 41031), (283, 41052), (289, 41106), (290, 41109), (291, 41118), (293, 41130), (299, 41172), (301, 41187), (312, 41289),

Gene: Lysidious_61 Start: 40833, Stop: 41798, Start Num: 50

Candidate Starts for Lysidious_61:

(28, 40620), (38, 40770), (Start: 50 @40833 has 158 MA's), (75, 40920), (79, 40938), (83, 40965), (84, 40968), (109, 41073), (110, 41082), (116, 41124), (162, 41307), (166, 41334), (172, 41358), (173, 41361), (186, 41424), (194, 41451), (261, 41703), (268, 41736),

Gene: MOOREtheMARYer_45 Start: 34546, Stop: 35991, Start Num: 48

Candidate Starts for MOOREtheMARYer_45:

(15, 33946), (16, 34000), (Start: 48 @34546 has 1 MA's), (52, 34561), (62, 34606), (75, 34654), (86, 34705), (107, 34789), (110, 34816), (114, 34834), (116, 34858), (120, 34873), (121, 34891), (125, 34921), (142, 35002), (149, 35059), (152, 35095), (156, 35113), (162, 35140), (169, 35179), (172, 35191), (174, 35197), (189, 35281), (199, 35329), (281, 35698), (308, 35917), (309, 35920), (310,

35932),

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

Candidate Starts for MZKinsey_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Madavieve_55 Start: 40166, Stop: 41290, Start Num: 50

Candidate Starts for Madavieve_55:

(32, 40067), (36, 40112), (Start: 50 @40166 has 158 MA's), (67, 40241), (75, 40268), (79, 40286), (84, 40316), (100, 40391), (105, 40427), (127, 40577), (129, 40580), (162, 40745), (165, 40766), (166, 40772), (172, 40796), (174, 40802), (185, 40862), (220, 41021),

Gene: Madeline_58 Start: 41610, Stop: 42737, Start Num: 50

Candidate Starts for Madeline_58:

(25, 41325), (32, 41511), (36, 41556), (Start: 50 @41610 has 158 MA's), (67, 41685), (75, 41712), (79, 41730), (84, 41760), (90, 41778), (105, 41871), (127, 42021), (129, 42024), (162, 42189), (165, 42210), (166, 42216), (172, 42240), (174, 42246), (185, 42306), (198, 42354), (214, 42420), (220, 42468), (237, 42546),

Gene: MakCheese_64 Start: 42568, Stop: 43701, Start Num: 50

Candidate Starts for MakCheese_64:

(Start: 50 @42568 has 158 MA's), (57, 42592), (67, 42640), (75, 42667), (79, 42685), (84, 42715), (100, 42790), (105, 42826), (125, 42970), (162, 43144), (165, 43165), (166, 43171), (174, 43201), (185, 43264), (214, 43378), (261, 43573),

Gene: Malibo_60 Start: 41295, Stop: 42374, Start Num: 50

Candidate Starts for Malibo_60:

(Start: 50 @41295 has 158 MA's), (67, 41367), (79, 41412), (84, 41442), (113, 41565), (116, 41598), (125, 41661), (127, 41667), (142, 41742), (162, 41835), (166, 41862), (172, 41886), (261, 42264), (263, 42273), (274, 42306),

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

Candidate Starts for Maliketh_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Manasvini_58 Start: 39736, Stop: 40884, Start Num: 50

Candidate Starts for Manasvini_58:

(32, 39637), (36, 39682), (Start: 50 @39736 has 158 MA's), (79, 39847), (84, 39877), (125, 40132), (162, 40306), (165, 40327), (166, 40333), (172, 40357), (174, 40363), (185, 40426), (192, 40462), (198, 40483), (214, 40567), (220, 40615),

Gene: Maridalia_61 Start: 40956, Stop: 42086, Start Num: 50

Candidate Starts for Maridalia_61:

(32, 40857), (36, 40902), (Start: 50 @40956 has 158 MA's), (67, 41031), (75, 41058), (79, 41076), (84, 41106), (95, 41142), (100, 41181), (105, 41217), (127, 41367), (129, 41370), (162, 41535), (165, 41556), (166, 41562), (172, 41586), (174, 41592), (185, 41652), (198, 41700), (208, 41736), (220, 41817), (222, 41826),

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

Candidate Starts for Marmie_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Marteena_56 Start: 40371, Stop: 41510, Start Num: 50

Candidate Starts for Marteena_56:

(14, 39750), (17, 39846), (25, 40086), (32, 40272), (36, 40317), (Start: 50 @40371 has 158 MA's), (79, 40479), (84, 40509), (125, 40764), (162, 40938), (165, 40959), (166, 40965), (172, 40989), (174, 40995), (185, 41058), (192, 41094), (198, 41115), (214, 41193),

Gene: Maruru_47 Start: 37039, Stop: 38160, Start Num: 56

Candidate Starts for Maruru_47:

(40, 36946), (Start: 56 @37039 has 11 MA's), (79, 37150), (84, 37180), (102, 37237), (104, 37246), (107, 37267), (115, 37321), (120, 37351), (123, 37375), (126, 37402), (162, 37522), (174, 37579), (176, 37588), (182, 37618), (204, 37738), (221, 37840), (228, 37882), (241, 37942), (243, 37945), (270, 38041), (277, 38080), (282, 38110),

Gene: Matteo_47 Start: 33447, Stop: 34499, Start Num: 50

Candidate Starts for Matteo_47:

(29, 33246), (36, 33381), (Start: 50 @33447 has 158 MA's), (76, 33543), (95, 33621), (96, 33624), (109, 33711), (116, 33762), (130, 33825), (140, 33870), (162, 33945), (177, 34017), (214, 34182), (253, 34371),

Gene: Mcklovin_54 Start: 42931, Stop: 44091, Start Num: 50

Candidate Starts for Mcklovin_54:

(32, 42820), (36, 42865), (Start: 50 @42931 has 158 MA's), (79, 43039), (84, 43069), (100, 43144), (125, 43324), (162, 43498), (165, 43519), (172, 43549), (173, 43552), (174, 43555), (192, 43657), (195, 43666), (198, 43678), (214, 43759), (261, 43954),

Gene: Mellie_58 Start: 38843, Stop: 39808, Start Num: 50

Candidate Starts for Mellie_58:

(26, 38582), (28, 38630), (38, 38780), (Start: 50 @38843 has 158 MA's), (75, 38930), (79, 38948), (83, 38975), (84, 38978), (109, 39083), (110, 39092), (116, 39134), (162, 39317), (166, 39344), (172, 39368), (186, 39434), (194, 39461), (226, 39605), (268, 39746),

Gene: Mercurio_46 Start: 35410, Stop: 36855, Start Num: 50

Candidate Starts for Mercurio_46:

(1, 34264), (6, 34408), (13, 34726), (15, 34780), (16, 34834), (22, 35008), (32, 35278), (44, 35380), (Start: 50 @35410 has 158 MA's), (70, 35497), (73, 35509), (86, 35566), (92, 35578), (111, 35680), (114, 35695), (116, 35719), (118, 35728), (125, 35782), (144, 35884), (149, 35920), (156, 35974), (162, 36001), (166, 36028), (172, 36052), (174, 36058), (220, 36322), (281, 36559), (284, 36592), (294, 36658), (305, 36754), (307, 36769),

Gene: MichaelScott_55 Start: 38395, Stop: 39543, Start Num: 50

Candidate Starts for MichaelScott_55:

(32, 38284), (36, 38329), (Start: 50 @38395 has 158 MA's), (79, 38503), (84, 38533), (100, 38608), (125, 38788), (162, 38962), (165, 38983), (166, 38989), (172, 39013), (173, 39016), (174, 39019), (192, 39121), (195, 39130), (198, 39142), (214, 39223), (261, 39418),

Gene: Mocha12_54 Start: 35911, Stop: 37059, Start Num: 50

Candidate Starts for Mocha12_54:

(Start: 50 @35911 has 158 MA's), (79, 36019), (84, 36049), (125, 36304), (127, 36310), (158, 36460), (162, 36478), (165, 36499), (166, 36505), (172, 36529), (174, 36535), (185, 36598), (192, 36634), (198, 36655), (214, 36736),

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

Candidate Starts for Mowgli_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Mufasa8_47 Start: 35178, Stop: 36302, Start Num: 56

Candidate Starts for Mufasa8_47:

(Start: 56 @35178 has 11 MA's), (79, 35280), (80, 35286), (84, 35310), (90, 35328), (102, 35367), (104, 35376), (107, 35397), (115, 35451), (120, 35481), (124, 35508), (126, 35532), (136, 35580), (162, 35652), (169, 35691), (174, 35709), (176, 35718), (180, 35739), (182, 35748), (190, 35808), (200, 35847), (206, 35877), (217, 35955), (218, 35958), (221, 35973), (225, 35991), (227, 36003), (232, 36027), (236, 36042), (241, 36069), (245, 36081), (247, 36084), (277, 36207), (282, 36258),

Gene: Murp_59 Start: 41608, Stop: 42573, Start Num: 50

Candidate Starts for Murp_59:

(Start: 50 @41608 has 158 MA's), (75, 41695), (79, 41713), (83, 41740), (84, 41743), (109, 41848), (110, 41857), (116, 41899), (118, 41908), (162, 42082), (166, 42109), (172, 42133), (173, 42136), (186, 42199), (194, 42226), (268, 42511),

Gene: Music_35 Start: 31061, Stop: 32134, Start Num: 56

Candidate Starts for Music_35:

(21, 30623), (Start: 56 @31061 has 11 MA's), (76, 31133), (108, 31307), (115, 31352), (116, 31367), (162, 31550), (168, 31586), (258, 31976),

Gene: Neobush_57 Start: 39706, Stop: 40854, Start Num: 50

Candidate Starts for Neobush_57:

(32, 39607), (36, 39652), (Start: 50 @39706 has 158 MA's), (79, 39817), (84, 39847), (125, 40102), (162, 40276), (165, 40297), (166, 40303), (172, 40327), (174, 40333), (185, 40396), (192, 40432), (198, 40453), (214, 40537), (220, 40585),

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

Candidate Starts for Neoh_43:

(29, 32792), (Start: 45 @32981 has 45 MA's), (Start: 50 @33002 has 158 MA's), (70, 33083), (73, 33095), (78, 33116), (79, 33119), (92, 33182), (103, 33230), (108, 33263), (114, 33299), (116, 33323), (125, 33386), (127, 33392), (149, 33524), (151, 33554), (156, 33578), (162, 33605), (163, 33608), (174, 33662), (179, 33689), (220, 33896), (281, 34094), (294, 34193), (313, 34349),

Gene: Nettuno_50 Start: 34420, Stop: 35568, Start Num: 50

Candidate Starts for Nettuno_50:

(Start: 50 @34420 has 158 MA's), (79, 34528), (84, 34558), (125, 34813), (127, 34819), (158, 34969), (162, 34987), (165, 35008), (166, 35014), (172, 35038), (174, 35044), (185, 35107), (192, 35143), (198, 35164), (214, 35245),

Gene: NovoPizza_56 Start: 40507, Stop: 42033, Start Num: 37

Candidate Starts for NovoPizza_56:

(Start: 37 @40507 has 1 MA's), (47, 40555), (Start: 56 @40594 has 11 MA's), (73, 40681), (78, 40702), (79, 40705), (84, 40735), (94, 40753), (106, 40816), (107, 40822), (108, 40831), (113, 40858), (116, 40891), (139, 41011), (144, 41041), (147, 41059), (156, 41134), (162, 41161), (172, 41212), (174, 41218), (175, 41224), (210, 41416), (211, 41419), (235, 41560), (240, 41587), (241, 41590), (249, 41611), (255, 41632), (257, 41635), (279, 41743), (280, 41749), (283, 41782), (285, 41797), (296, 41875), (297, 41887), (298, 41896), (303, 41929), (307, 41980), (311, 42007), (312, 42022),

Gene: Nubi_55 Start: 41879, Stop: 42829, Start Num: 50

Candidate Starts for Nubi_55:

(Start: 50 @41879 has 158 MA's), (75, 41972), (79, 41990), (84, 42020), (116, 42176), (119, 42188), (162, 42359), (166, 42386), (201, 42530), (226, 42650), (230, 42668), (242, 42719), (246, 42731), (265, 42776),

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

Candidate Starts for OBUpride_56:

(19, 39504), (24, 39591), (Start: 42 @39882 has 22 MA's), (62, 39957), (67, 39978), (74, 40002), (79, 40023), (84, 40053), (92, 40068), (94, 40071), (107, 40140), (116, 40209), (131, 40305), (141, 40371), (145, 40407), (148, 40416), (156, 40482), (161, 40506), (162, 40509), (164, 40524), (169, 40548), (173, 40563), (174, 40566), (179, 40593), (187, 40650), (197, 40695), (233, 40890), (235, 40893), (280, 41031), (281, 41043), (283, 41064), (288, 41112), (289, 41118), (290, 41121), (291, 41130), (293, 41142), (299, 41184), (301, 41199), (307, 41259), (312, 41301),

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

Candidate Starts for OctaviousRex_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Ohgeesy_57 Start: 40387, Stop: 41541, Start Num: 50

Candidate Starts for Ohgeesy_57:

(32, 40288), (36, 40333), (Start: 50 @40387 has 158 MA's), (79, 40495), (84, 40525), (125, 40780), (127, 40786), (162, 40954), (165, 40975), (166, 40981), (172, 41005), (174, 41011), (185, 41074), (192, 41110), (198, 41131), (220, 41266), (222, 41275),

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

Candidate Starts for Olga_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Oregano_58 Start: 38155, Stop: 39303, Start Num: 50

Candidate Starts for Oregano_58:

(32, 38044), (36, 38089), (Start: 50 @38155 has 158 MA's), (79, 38263), (84, 38293), (100, 38368), (125, 38548), (162, 38722), (165, 38743), (166, 38749), (172, 38773), (173, 38776), (174, 38779), (192, 38881), (195, 38890), (198, 38902), (214, 38983), (261, 39178),

Gene: Orkz_44 Start: 30197, Stop: 31264, Start Num: 56

Candidate Starts for Orkz_44:

(41, 30110), (Start: 56 @30197 has 11 MA's), (76, 30287), (90, 30350), (91, 30362), (108, 30461), (115, 30506), (116, 30521), (118, 30530), (120, 30536), (126, 30587), (162, 30704), (172, 30755), (181, 30797), (205, 30908), (252, 31112), (258, 31127),

Gene: Pace1224_43 Start: 34121, Stop: 35515, Start Num: 51

Candidate Starts for Pace1224_43:

(Start: 43 @34088 has 4 MA's), (Start: 51 @34121 has 1 MA's), (62, 34169), (67, 34187), (92, 34280), (109, 34370), (114, 34397), (116, 34421), (125, 34484), (142, 34565), (144, 34586), (149, 34622), (152, 34658), (156, 34676), (162, 34703), (169, 34742), (172, 34754), (174, 34760), (199, 34892), (281, 35222), (295, 35324), (297, 35339), (306, 35423), (308, 35441), (309, 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 45 MA's), (Start: 50 @33251 has 158 MA's), (70, 33332), (73, 33344), (78, 33365), (79, 33368), (92, 33431), (103, 33479), (108, 33512), (114, 33548), (116, 33572), (125, 33635), (149, 33773), (151, 33803), (156, 33827), (162, 33854), (163, 33857), (172, 33905), (174, 33911), (179, 33938), (220, 34145), (253, 34268), (281, 34376),

Gene: PantheRoc_60 Start: 40974, Stop: 42104, Start Num: 50

Candidate Starts for PantheRoc_60:

(25, 40689), (32, 40875), (36, 40920), (Start: 50 @40974 has 158 MA's), (67, 41049), (75, 41076), (79, 41094), (84, 41124), (90, 41142), (105, 41235), (127, 41385), (129, 41388), (162, 41553), (165, 41574), (166, 41580), (172, 41604), (174, 41610), (185, 41670), (198, 41718), (214, 41784), (220, 41832), (222, 41841), (238, 41922),

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

Candidate Starts for Peeb_43:

(29, 32785), (Start: 45 @32974 has 45 MA's), (Start: 50 @32995 has 158 MA's), (70, 33076), (73, 33088), (78, 33109), (79, 33112), (92, 33175), (103, 33223), (108, 33256), (114, 33292), (116, 33316), (125, 33379), (127, 33385), (149, 33517), (151, 33547), (156, 33571), (162, 33598), (163, 33601), (174, 33655), (179, 33682), (220, 33889), (281, 34093), (294, 34192), (313, 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 45 MA's), (Start: 50 @33001 has 158 MA's), (70, 33082), (73, 33094), (78, 33115), (79, 33118), (92, 33181), (103, 33229), (108, 33262), (114, 33298), (116, 33322), (125, 33385), (149, 33523), (151, 33553), (156, 33577), (162, 33604), (163, 33607), (172, 33655), (174, 33661), (179, 33688), (209, 33841), (220, 33904), (281, 34108), (294, 34207),

Gene: PetriParty_55 Start: 33921, Stop: 34889, Start Num: 53

Candidate Starts for PetriParty_55:

(Start: 53 @33921 has 1 MA's), (60, 33954), (72, 33999), (75, 34008), (108, 34152), (112, 34176), (113, 34179), (115, 34197), (116, 34212), (120, 34227), (126, 34278), (162, 34395), (172, 34446), (178, 34473), (278, 34878),

Gene: Phish_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for Phish_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Phloodle_43 Start: 33010, Stop: 34413, Start Num: 50

Candidate Starts for Phloodle_43:

(6, 32023), (15, 32395), (18, 32548), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (172, 33664), (174, 33670), (179, 33697), (209, 33850), (220, 33913), (281, 34117), (294, 34216),

Gene: Phlop_54 Start: 41954, Stop: 42892, Start Num: 50

Candidate Starts for Phlop_54:

(Start: 50 @41954 has 158 MA's), (75, 42035), (79, 42053), (89, 42098), (90, 42101), (116, 42239), (125, 42302), (159, 42410), (162, 42422), (166, 42449), (169, 42461), (201, 42593), (226, 42713), (230, 42731), (242, 42782), (246, 42794), (265, 42839),

Gene: Phreak_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for Phreak_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: PhriskyACE_54 Start: 38287, Stop: 39378, Start Num: 50

Candidate Starts for PhriskyACE_54:

(Start: 50 @38287 has 158 MA's), (67, 38356), (75, 38383), (79, 38401), (84, 38431), (113, 38554), (116, 38587), (117, 38590), (127, 38656), (129, 38659), (150, 38767), (156, 38797), (162, 38824), (166, 38851), (172, 38875), (214, 39058), (248, 39229), (261, 39253),

Gene: Pickett_50 Start: 34009, Stop: 35157, Start Num: 50

Candidate Starts for Pickett_50:

(32, 33910), (36, 33955), (Start: 50 @34009 has 158 MA's), (79, 34120), (84, 34150), (125, 34405), (162, 34579), (165, 34600), (166, 34606), (172, 34630), (174, 34636), (185, 34699), (192, 34735), (198, 34756), (214, 34840), (220, 34888),

Gene: PinkCoffee_57 Start: 42057, Stop: 42995, Start Num: 50

Candidate Starts for PinkCoffee_57:

(Start: 50 @42057 has 158 MA's), (75, 42138), (79, 42156), (89, 42201), (90, 42204), (116, 42342), (125, 42405), (159, 42513), (162, 42525), (166, 42552), (169, 42564), (201, 42696), (226, 42816), (230, 42834), (242, 42885), (246, 42897), (265, 42942),

Gene: PinkYoshi_43 Start: 33001, Stop: 34389, Start Num: 50

Candidate Starts for PinkYoshi_43:

(29, 32791), (Start: 45 @32980 has 45 MA's), (Start: 50 @33001 has 158 MA's), (70, 33082), (73, 33094), (78, 33115), (79, 33118), (92, 33181), (103, 33229), (108, 33262), (114, 33298), (116, 33322), (125, 33385), (127, 33391), (149, 33523), (151, 33553), (156, 33577), (162, 33604), (163, 33607), (174, 33661), (179, 33688), (220, 33895), (281, 34093), (294, 34192), (313, 34348),

Gene: Pinnie_43 Start: 34270, Stop: 35709, Start Num: 50

Candidate Starts for Pinnie_43:

(Start: 50 @34270 has 158 MA's), (62, 34324), (73, 34366), (75, 34372), (107, 34507), (114, 34552), (116, 34576), (121, 34609), (125, 34639), (132, 34678), (142, 34720), (149, 34777), (152, 34813), (156, 34831), (162, 34858), (169, 34897), (172, 34909), (174, 34915), (189, 34999), (196, 35029), (199, 35047), (281, 35416), (297, 35533), (303, 35575), (309, 35638), (310, 35650),

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

Candidate Starts for Plagueis_43:

(29, 32620), (Start: 45 @32809 has 45 MA's), (Start: 50 @32830 has 158 MA's), (70, 32911), (73, 32923), (78, 32944), (79, 32947), (92, 33010), (103, 33058), (108, 33091), (114, 33127), (116, 33151), (125, 33214), (127, 33220), (149, 33352), (151, 33382), (156, 33406), (162, 33433), (163, 33436), (174, 33490), (179, 33517), (220, 33724), (281, 33922), (294, 34021), (313, 34177),

Gene: Pollux_60 Start: 42256, Stop: 43395, Start Num: 50

Candidate Starts for Pollux_60:

(25, 41971), (32, 42157), (36, 42202), (Start: 50 @42256 has 158 MA's), (79, 42364), (84, 42394), (100, 42469), (125, 42649), (127, 42655), (162, 42823), (165, 42844), (166, 42850), (172, 42874), (174, 42880), (185, 42943), (192, 42979), (198, 43000), (214, 43078),

Gene: Polly_54 Start: 39155, Stop: 40303, Start Num: 50

Candidate Starts for Polly_54:

(32, 39056), (36, 39101), (Start: 50 @39155 has 158 MA's), (79, 39266), (84, 39296), (125, 39551), (162, 39725), (165, 39746), (166, 39752), (172, 39776), (174, 39782), (185, 39845), (192, 39881), (198, 39902), (214, 39986), (220, 40034),

Gene: Posh_60 Start: 42119, Stop: 43222, Start Num: 50

Candidate Starts for Posh_60:

(Start: 50 @42119 has 158 MA's), (62, 42170), (67, 42191), (75, 42218), (79, 42236), (84, 42266), (109, 42371), (116, 42422), (127, 42491), (129, 42494), (162, 42659), (166, 42686), (172, 42710),

Gene: Powerball_56 Start: 38413, Stop: 39507, Start Num: 50

Candidate Starts for Powerball_56:

(Start: 50 @38413 has 158 MA's), (67, 38482), (75, 38509), (79, 38527), (84, 38557), (113, 38680), (116, 38713), (117, 38716), (127, 38782), (129, 38785), (150, 38893), (156, 38923), (162, 38950), (166, 38977), (172, 39001), (214, 39184), (248, 39355), (261, 39379),

Gene: Primanti_43 Start: 33010, Stop: 34398, Start Num: 50

Candidate Starts for Primanti_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: PullumCavea_54 Start: 41954, Stop: 42892, Start Num: 50

Candidate Starts for PullumCavea_54:

(Start: 50 @41954 has 158 MA's), (75, 42035), (79, 42053), (89, 42098), (90, 42101), (116, 42239), (125, 42302), (159, 42410), (162, 42422), (166, 42449), (169, 42461), (201, 42593), (226, 42713), (230, 42731), (242, 42782), (246, 42794), (265, 42839),

Gene: Pytheas_60 Start: 43189, Stop: 44337, Start Num: 50

Candidate Starts for Pytheas_60:

(Start: 50 @43189 has 158 MA's), (79, 43297), (84, 43327), (125, 43582), (127, 43588), (162, 43756), (165, 43777), (166, 43783), (172, 43807), (174, 43813), (185, 43876), (192, 43912), (198, 43933), (214, 44017), (220, 44065),

Gene: Rabbs_44 Start: 33198, Stop: 34574, Start Num: 50

Candidate Starts for Rabbs_44:

(6, 32211), (15, 32583), (Start: 45 @33177 has 45 MA's), (Start: 50 @33198 has 158 MA's), (55, 33222), (70, 33279), (73, 33291), (78, 33312), (79, 33315), (92, 33378), (103, 33426), (114, 33495), (116, 33519), (125, 33582), (149, 33720), (156, 33774), (162, 33801), (163, 33804), (172, 33852), (174, 33858), (202, 34005), (220, 34068), (237, 34137), (281, 34272), (284, 34305), (292, 34359),

Gene: Rattrick_43 Start: 33001, Stop: 34404, Start Num: 50

Candidate Starts for Rattrick_43:

(6, 32014), (15, 32386), (18, 32539), (Start: 45 @32980 has 45 MA's), (Start: 50 @33001 has 158 MA's), (70, 33082), (73, 33094), (78, 33115), (79, 33118), (92, 33181), (103, 33229), (108, 33262), (114, 33298), (116, 33322), (125, 33385), (149, 33523), (151, 33553), (156, 33577), (162, 33604), (163, 33607), (172, 33655), (174, 33661), (179, 33688), (209, 33841), (220, 33904), (281, 34108), (294, 34207),

Gene: RavenCo17_54 Start: 39554, Stop: 40645, Start Num: 50

Candidate Starts for RavenCo17_54:

(Start: 50 @39554 has 158 MA's), (63, 39605), (67, 39623), (75, 39650), (79, 39668), (84, 39698), (109, 39803), (116, 39854), (127, 39923), (129, 39926), (162, 40091), (166, 40118), (172, 40142), (214, 40325),

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

Candidate Starts for Remy19_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

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

Candidate Starts for Renaissance_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Richarlison_43 Start: 32995, Stop: 34383, Start Num: 50

Candidate Starts for Richarlison_43:

(29, 32785), (Start: 45 @32974 has 45 MA's), (Start: 50 @32995 has 158 MA's), (70, 33076), (73, 33088), (78, 33109), (79, 33112), (92, 33175), (103, 33223), (108, 33256), (114, 33292), (116, 33316), (125, 33379), (127, 33385), (149, 33517), (151, 33547), (156, 33571), (162, 33598), (163, 33601), (174, 33655), (179, 33682), (220, 33889), (281, 34087), (294, 34186), (313, 34342),

Gene: Rizz_55 Start: 37704, Stop: 38855, Start Num: 50

Candidate Starts for Rizz_55:

(32, 37593), (36, 37638), (Start: 50 @37704 has 158 MA's), (79, 37812), (84, 37842), (100, 37917), (125, 38097), (162, 38271), (165, 38292), (166, 38298), (172, 38322), (173, 38325), (174, 38328), (192, 38430), (195, 38439), (198, 38451), (214, 38532), (261, 38727), (274, 38787),

Gene: RogerDodger_58 Start: 42076, Stop: 43014, Start Num: 50

Candidate Starts for RogerDodger_58:

(Start: 50 @42076 has 158 MA's), (75, 42157), (79, 42175), (89, 42220), (90, 42223), (116, 42361), (125, 42424), (159, 42532), (162, 42544), (166, 42571), (169, 42583), (201, 42715), (226, 42835), (230, 42853), (242, 42904), (246, 42916), (265, 42961),

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

Candidate Starts for Ruriko_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616),

(174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Ruthy_55 Start: 40488, Stop: 41606, Start Num: 50

Candidate Starts for Ruthy_55:

(Start: 50 @40488 has 158 MA's), (61, 40533), (75, 40587), (79, 40605), (84, 40635), (100, 40710), (105, 40746), (117, 40830), (118, 40836), (127, 40896), (129, 40899), (162, 41064), (165, 41085), (166, 41091), (172, 41115), (174, 41121), (220, 41343), (261, 41490), (263, 41499), (271, 41538),

Gene: Sahara_53 Start: 35658, Stop: 36806, Start Num: 50

Candidate Starts for Sahara_53:

(Start: 50 @35658 has 158 MA's), (79, 35766), (84, 35796), (125, 36051), (127, 36057), (158, 36207), (162, 36225), (165, 36246), (166, 36252), (172, 36276), (174, 36282), (185, 36345), (192, 36381), (198, 36402), (214, 36483),

Gene: Salvador_54 Start: 41772, Stop: 42722, Start Num: 50

Candidate Starts for Salvador_54:

(Start: 50 @41772 has 158 MA's), (75, 41865), (79, 41883), (84, 41913), (116, 42069), (119, 42081), (162, 42252), (201, 42423), (226, 42543), (230, 42561), (242, 42612), (246, 42624), (265, 42669),

Gene: Samman98_55 Start: 37021, Stop: 38172, Start Num: 50

Candidate Starts for Samman98_55:

(32, 36910), (36, 36955), (Start: 50 @37021 has 158 MA's), (79, 37129), (84, 37159), (100, 37234), (125, 37414), (162, 37588), (165, 37609), (166, 37615), (172, 37639), (173, 37642), (174, 37645), (192, 37747), (195, 37756), (198, 37768), (214, 37849), (261, 38044), (274, 38104),

Gene: Savage_54 Start: 35911, Stop: 37059, Start Num: 50

Candidate Starts for Savage_54:

(Start: 50 @35911 has 158 MA's), (79, 36019), (84, 36049), (125, 36304), (127, 36310), (158, 36460), (162, 36478), (165, 36499), (166, 36505), (172, 36529), (174, 36535), (185, 36598), (192, 36634), (198, 36655), (214, 36736),

Gene: Schiebel_43 Start: 32995, Stop: 34383, Start Num: 50

Candidate Starts for Schiebel_43:

(29, 32785), (Start: 45 @32974 has 45 MA's), (Start: 50 @32995 has 158 MA's), (70, 33076), (73, 33088), (78, 33109), (79, 33112), (92, 33175), (103, 33223), (108, 33256), (114, 33292), (116, 33316), (125, 33379), (127, 33385), (149, 33517), (151, 33547), (156, 33571), (162, 33598), (163, 33601), (174, 33655), (179, 33682), (220, 33889), (281, 34087), (294, 34186), (313, 34342),

Gene: Sekhmet_56 Start: 38079, Stop: 39206, Start Num: 50

Candidate Starts for Sekhmet_56:

(32, 37980), (36, 38025), (Start: 50 @38079 has 158 MA's), (63, 38130), (67, 38148), (75, 38175), (79, 38193), (84, 38223), (100, 38298), (105, 38334), (125, 38478), (162, 38652), (165, 38673), (166, 38679), (174, 38709), (185, 38772), (214, 38886), (261, 39081),

Gene: Sendy_56 Start: 42080, Stop: 43030, Start Num: 50

Candidate Starts for Sendy_56:

(Start: 50 @42080 has 158 MA's), (75, 42173), (79, 42191), (84, 42221), (116, 42377), (119, 42389), (162, 42560), (166, 42587), (201, 42731), (226, 42851), (230, 42869), (242, 42920), (246, 42932), (265, 42977),

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

Candidate Starts for ShaboiShabazz_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: SharkTale_57 Start: 43113, Stop: 44063, Start Num: 50

Candidate Starts for SharkTale_57:

(Start: 50 @43113 has 158 MA's), (75, 43206), (79, 43224), (84, 43254), (116, 43410), (119, 43422), (162, 43593), (166, 43620), (201, 43764), (226, 43884), (230, 43902), (242, 43953), (246, 43965), (265, 44010),

Gene: Shlim410_57 Start: 41999, Stop: 43018, Start Num: 50

Candidate Starts for Shlim410_57:

(27, 41771), (35, 41936), (38, 41945), (39, 41957), (Start: 50 @41999 has 158 MA's), (75, 42083), (81, 42104), (95, 42149), (96, 42152), (104, 42200), (107, 42221), (115, 42275), (116, 42290), (130, 42353), (138, 42392), (162, 42473), (175, 42536), (214, 42698), (261, 42893),

Gene: Sidious_57 Start: 40481, Stop: 41569, Start Num: 50

Candidate Starts for Sidious_57:

(14, 39860), (17, 39956), (31, 40364), (32, 40382), (36, 40427), (Start: 50 @40481 has 158 MA's), (67, 40547), (75, 40574), (79, 40592), (84, 40622), (116, 40778), (117, 40781), (125, 40841), (127, 40847), (162, 41015), (166, 41042), (172, 41066), (203, 41198), (214, 41252), (277, 41522),

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

Candidate Starts for Sizemore_43:

(29, 32786), (Start: 45 @32975 has 45 MA's), (Start: 50 @32996 has 158 MA's), (70, 33077), (73, 33089), (78, 33110), (79, 33113), (92, 33176), (103, 33224), (108, 33257), (114, 33293), (116, 33317), (125, 33380), (127, 33386), (149, 33518), (151, 33548), (156, 33572), (162, 33599), (163, 33602), (174, 33656), (179, 33683), (220, 33890), (281, 34088), (294, 34187), (313, 34343),

Gene: Sleepyhead_52 Start: 35211, Stop: 36374, Start Num: 58

Candidate Starts for Sleepyhead_52:

(Start: 58 @35211 has 1 MA's), (80, 35319), (99, 35400), (103, 35433), (104, 35436), (116, 35526), (213, 35979), (214, 36000), (219, 36042), (239, 36144), (254, 36192), (258, 36201),

Gene: SmokingBunny_55 Start: 41865, Stop: 42815, Start Num: 50

Candidate Starts for SmokingBunny_55:

(Start: 50 @41865 has 158 MA's), (75, 41958), (79, 41976), (84, 42006), (116, 42162), (119, 42174), (162, 42345), (166, 42372), (201, 42516), (226, 42636), (230, 42654), (242, 42705), (246, 42717), (265, 42762),

Gene: Sneeze_44 Start: 33197, Stop: 34573, Start Num: 50

Candidate Starts for Sneeze_44:

(6, 32210), (15, 32582), (Start: 45 @33176 has 45 MA's), (Start: 50 @33197 has 158 MA's), (55, 33221), (70, 33278), (73, 33290), (78, 33311), (79, 33314), (92, 33377), (103, 33425), (114, 33494), (116, 33518), (125, 33581), (149, 33719), (156, 33773), (162, 33800), (163, 33803), (172, 33851), (174, 33857), (202, 34004), (220, 34067), (237, 34136), (281, 34271), (284, 34304), (292, 34358),

Gene: SoilAssassin_52 Start: 36844, Stop: 37989, Start Num: 50

Candidate Starts for SoilAssassin_52:

(32, 36745), (36, 36790), (Start: 50 @36844 has 158 MA's), (79, 36952), (84, 36982), (125, 37237), (127, 37243), (143, 37324), (162, 37411), (165, 37432), (166, 37438), (172, 37462), (174, 37468), (185, 37531), (192, 37567), (198, 37588), (214, 37669), (220, 37717), (222, 37726),

Gene: Sonali_47 Start: 37499, Stop: 38617, Start Num: 56

Candidate Starts for Sonali_47:

(40, 37409), (Start: 56 @37499 has 11 MA's), (79, 37613), (84, 37643), (102, 37700), (104, 37709), (107, 37730), (115, 37784), (123, 37838), (126, 37865), (162, 37985), (174, 38042), (176, 38051), (181, 38078), (182, 38081), (204, 38198), (216, 38276), (221, 38303), (228, 38342), (241, 38402), (243, 38405), (270, 38501), (277, 38540), (282, 38570),

Gene: Sprinklemunch_64 Start: 43577, Stop: 44674, Start Num: 50

Candidate Starts for Sprinklemunch_64:

(Start: 50 @43577 has 158 MA's), (67, 43646), (75, 43673), (79, 43691), (84, 43721), (113, 43844), (116, 43877), (117, 43880), (127, 43946), (162, 44114), (166, 44141), (169, 44153), (172, 44165), (209, 44336), (214, 44363), (229, 44465), (231, 44468), (261, 44558), (263, 44567), (264, 44570), (274, 44606),

Gene: Sproutie_54 Start: 35911, Stop: 37059, Start Num: 50

Candidate Starts for Sproutie_54:

(Start: 50 @35911 has 158 MA's), (79, 36019), (84, 36049), (125, 36304), (127, 36310), (158, 36460), (162, 36478), (165, 36499), (166, 36505), (172, 36529), (174, 36535), (185, 36598), (192, 36634), (198, 36655), (214, 36736),

Gene: Stargaze_44 Start: 34260, Stop: 35672, Start Num: 43

Candidate Starts for Stargaze_44:

(29, 34080), (32, 34170), (Start: 43 @34260 has 4 MA's), (Start: 51 @34296 has 1 MA's), (67, 34356), (73, 34380), (92, 34449), (111, 34551), (114, 34566), (116, 34590), (118, 34599), (125, 34653), (142, 34734), (156, 34845), (162, 34872), (169, 34911), (172, 34923), (174, 34929), (188, 35010), (202, 35061), (220, 35181), (281, 35379), (303, 35538), (309, 35601), (310, 35613),

Gene: Suerte_51 Start: 36995, Stop: 38143, Start Num: 50

Candidate Starts for Suerte_51:

(32, 36884), (36, 36929), (Start: 50 @36995 has 158 MA's), (79, 37103), (84, 37133), (100, 37208), (125, 37388), (127, 37394), (162, 37562), (163, 37565), (165, 37583), (166, 37589), (172, 37613), (173, 37616), (174, 37619), (192, 37721), (195, 37730), (198, 37742), (214, 37823), (261, 38018),

Gene: SunnyJune_43 Start: 31608, Stop: 32651, Start Num: 56

Candidate Starts for SunnyJune_43:

(Start: 56 @31608 has 11 MA's), (66, 31656), (76, 31698), (108, 31872), (115, 31917), (116, 31932), (120, 31947), (126, 31998), (162, 32115), (256, 32511), (258, 32514), (262, 32532), (266, 32547), (272, 32580),

Gene: Sunshine23_49 Start: 37381, Stop: 38502, Start Num: 56

Candidate Starts for Sunshine23_49:

(40, 37288), (Start: 56 @37381 has 11 MA's), (79, 37495), (84, 37525), (102, 37582), (104, 37591), (107, 37612), (115, 37666), (123, 37720), (126, 37747), (162, 37867), (174, 37924), (176, 37933), (181, 37960), (182, 37963), (204, 38083), (221, 38188), (228, 38227), (241, 38287), (243, 38290), (270, 38386), (277, 38425), (282, 38455),

Gene: Suscepit_57 Start: 39713, Stop: 40861, Start Num: 50

Candidate Starts for Suscepit_57:

(32, 39614), (36, 39659), (Start: 50 @39713 has 158 MA's), (79, 39824), (84, 39854), (125, 40109), (162, 40283), (165, 40304), (166, 40310), (172, 40334), (174, 40340), (185, 40403), (192, 40439), (198, 40460), (214, 40544), (220, 40592),

Gene: SushiChef_57 Start: 41724, Stop: 42854, Start Num: 50

Candidate Starts for SushiChef_57:

(32, 41625), (Start: 50 @41724 has 158 MA's), (67, 41799), (75, 41826), (79, 41844), (84, 41874), (95, 41910), (100, 41949), (105, 41985), (127, 42135), (129, 42138), (162, 42303), (165, 42324), (166, 42330), (172, 42354), (174, 42360), (185, 42420), (198, 42468), (208, 42504), (220, 42585), (222, 42594),

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

Candidate Starts for Sweets_43:

(29, 32795), (Start: 45 @32984 has 45 MA's), (Start: 50 @33005 has 158 MA's), (70, 33086), (73, 33098), (78, 33119), (79, 33122), (92, 33185), (103, 33233), (108, 33266), (114, 33302), (116, 33326), (125, 33389), (127, 33395), (149, 33527), (151, 33557), (156, 33581), (162, 33608), (163, 33611), (174, 33665), (179, 33692), (220, 33899), (281, 34097), (294, 34196), (313, 34352),

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

Candidate Starts for Taheera_42:

(Start: 45 @32680 has 45 MA's), (Start: 50 @32701 has 158 MA's), (55, 32725), (70, 32782), (73, 32794), (78, 32815), (79, 32818), (92, 32881), (103, 32929), (114, 32998), (116, 33022), (125, 33085), (149, 33223), (156, 33277), (162, 33304), (163, 33307), (172, 33355), (174, 33361), (220, 33595), (281, 33814), (284, 33847),

Gene: Tayonia_57 Start: 39712, Stop: 40860, Start Num: 50

Candidate Starts for Tayonia_57:

(32, 39613), (36, 39658), (Start: 50 @39712 has 158 MA's), (79, 39823), (84, 39853), (125, 40108), (162, 40282), (165, 40303), (166, 40309), (172, 40333), (174, 40339), (185, 40402), (192, 40438), (198, 40459), (214, 40543), (220, 40591),

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

Candidate Starts for Terror_42:

(Start: 45 @32680 has 45 MA's), (Start: 50 @32701 has 158 MA's), (55, 32725), (70, 32782), (73, 32794), (78, 32815), (79, 32818), (92, 32881), (103, 32929), (114, 32998), (116, 33022), (125, 33085), (149, 33223), (156, 33277), (162, 33304), (163, 33307), (172, 33355), (174, 33361), (220, 33595), (281, 33814), (284, 33847),

Gene: ThankyouJordi_60 Start: 42528, Stop: 43664, Start Num: 50

Candidate Starts for ThankyouJordi_60:

(8, 41562), (9, 41640), (10, 41652), (20, 42123), (29, 42327), (36, 42462), (Start: 50 @42528 has 158 MA's), (77, 42630), (79, 42639), (84, 42669), (95, 42705), (100, 42744), (109, 42810), (125, 42924), (129, 42933), (160, 43092), (162, 43098), (165, 43119), (166, 43125), (172, 43149), (174, 43155), (192, 43248), (209, 43320), (214, 43347), (220, 43395),

Gene: Thimann_57 Start: 38439, Stop: 39587, Start Num: 50

Candidate Starts for Thimann_57:

(32, 38328), (36, 38373), (Start: 50 @38439 has 158 MA's), (79, 38547), (84, 38577), (100, 38652), (125, 38832), (127, 38838), (162, 39006), (163, 39009), (165, 39027), (166, 39033), (172, 39057), (173, 39060), (174, 39063), (192, 39165), (195, 39174), (198, 39186), (214, 39267), (261, 39462), (274, 39522),

Gene: TillyBobJoe_57 Start: 43373, Stop: 44326, Start Num: 50

Candidate Starts for TillyBobJoe_57:

(Start: 50 @43373 has 158 MA's), (75, 43466), (79, 43484), (84, 43514), (107, 43601), (116, 43670), (119, 43682), (162, 43853), (185, 43961), (201, 44024), (226, 44147), (230, 44165), (242, 44216), (265, 44273),

Gene: TinaBug_43 Start: 33005, Stop: 34393, Start Num: 50

Candidate Starts for TinaBug_43:

(29, 32795), (Start: 45 @32984 has 45 MA's), (Start: 50 @33005 has 158 MA's), (70, 33086), (73, 33098), (78, 33119), (79, 33122), (92, 33185), (103, 33233), (108, 33266), (114, 33302), (116, 33326), (125, 33389), (127, 33395), (149, 33527), (151, 33557), (156, 33581), (162, 33608), (163, 33611), (174, 33665), (179, 33692), (220, 33899), (281, 34097), (294, 34196), (313, 34352),

Gene: Togo_54 Start: 41865, Stop: 42815, Start Num: 50

Candidate Starts for Togo_54:

(Start: 50 @41865 has 158 MA's), (75, 41958), (79, 41976), (84, 42006), (116, 42162), (119, 42174), (162, 42345), (166, 42372), (201, 42516), (226, 42636), (230, 42654), (242, 42705), (246, 42717), (265, 42762),

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

Candidate Starts for TomBrady_43:

(29, 32801), (Start: 45 @32990 has 45 MA's), (Start: 50 @33011 has 158 MA's), (70, 33092), (73, 33104), (78, 33125), (79, 33128), (92, 33191), (103, 33239), (108, 33272), (114, 33308), (116, 33332), (125, 33395), (127, 33401), (149, 33533), (151, 33563), (156, 33587), (162, 33614), (163, 33617), (174, 33671), (179, 33698), (220, 33905), (281, 34103), (294, 34202), (313, 34358),

Gene: Trumpet_57 Start: 39713, Stop: 40861, Start Num: 50

Candidate Starts for Trumpet_57:

(32, 39614), (36, 39659), (Start: 50 @39713 has 158 MA's), (79, 39824), (84, 39854), (125, 40109), (162, 40283), (165, 40304), (166, 40310), (172, 40334), (174, 40340), (185, 40403), (192, 40439), (198, 40460), (214, 40544), (220, 40592),

Gene: TuertoX_54 Start: 35911, Stop: 37059, Start Num: 50

Candidate Starts for TuertoX_54:

(Start: 50 @35911 has 158 MA's), (79, 36019), (84, 36049), (125, 36304), (127, 36310), (158, 36460), (162, 36478), (165, 36499), (166, 36505), (172, 36529), (174, 36535), (185, 36598), (192, 36634), (198, 36655), (214, 36736),

Gene: Tuti_53 Start: 38903, Stop: 40051, Start Num: 50

Candidate Starts for Tuti_53:

(32, 38792), (36, 38837), (Start: 50 @38903 has 158 MA's), (79, 39011), (84, 39041), (100, 39116), (125, 39296), (162, 39470), (165, 39491), (166, 39497), (172, 39521), (173, 39524), (174, 39527), (192, 39629), (195, 39638), (198, 39650), (214, 39731), (261, 39926),

Gene: Twinkle_58 Start: 43058, Stop: 44077, Start Num: 50

Candidate Starts for Twinkle_58:

(27, 42830), (35, 42995), (38, 43004), (39, 43016), (Start: 50 @43058 has 158 MA's), (75, 43142), (81, 43163), (95, 43208), (96, 43211), (104, 43259), (107, 43280), (115, 43334), (116, 43349), (130, 43412), (138, 43451), (162, 43532), (175, 43595), (214, 43757), (261, 43952),

Gene: Typha_66 Start: 46458, Stop: 47585, Start Num: 50

Candidate Starts for Typha_66:

(Start: 50 @46458 has 158 MA's), (Start: 53 @46470 has 1 MA's), (Start: 56 @46485 has 11 MA's), (61, 46509), (65, 46527), (74, 46563), (82, 46602), (88, 46632), (93, 46659), (104, 46722), (107, 46743), (110, 46770), (115, 46797), (116, 46812), (117, 46815), (119, 46824), (120, 46827), (128, 46875), (133, 46905), (134, 46908), (157, 46995), (159, 47007), (162, 47019), (166, 47046), (172, 47070), (174, 47076), (175, 47082), (183, 47124), (184, 47127), (198, 47190), (218, 47301), (240, 47412), (253, 47454),

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

Candidate Starts for Ubuntu_56:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

Gene: Valary_57 Start: 42681, Stop: 43619, Start Num: 50

Candidate Starts for Valary_57:

(Start: 50 @42681 has 158 MA's), (75, 42762), (79, 42780), (89, 42825), (90, 42828), (116, 42966), (125, 43029), (159, 43137), (162, 43149), (166, 43176), (169, 43188), (201, 43320), (226, 43440), (230, 43458), (242, 43509), (246, 43521), (265, 43566),

Gene: VanDeWege_58 Start: 41973, Stop: 42911, Start Num: 50

Candidate Starts for VanDeWege_58:

(Start: 50 @41973 has 158 MA's), (75, 42054), (79, 42072), (89, 42117), (90, 42120), (116, 42258), (125, 42321), (159, 42429), (162, 42441), (166, 42468), (169, 42480), (201, 42612), (226, 42732), (230, 42750), (242, 42801), (246, 42813), (265, 42858),

Gene: Vibaki_35 Start: 31085, Stop: 32152, Start Num: 56

Candidate Starts for Vibaki_35:

(Start: 56 @31085 has 11 MA's), (76, 31157), (96, 31241), (108, 31331), (115, 31376), (116, 31391), (162, 31574), (168, 31610), (172, 31625), (258, 32000),

Gene: Vitus_36 Start: 29804, Stop: 30862, Start Num: 56

Candidate Starts for Vitus_36:

(Start: 56 @29804 has 11 MA's), (76, 29876), (108, 30050), (113, 30077), (115, 30095), (116, 30110), (142, 30257), (162, 30293), (168, 30329), (191, 30446), (195, 30455), (241, 30674), (245, 30686), (258, 30722),

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

Candidate Starts for Webster2_56:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

Gene: WelcomeAyanna_60 Start: 42675, Stop: 43811, Start Num: 50

Candidate Starts for WelcomeAyanna_60:

(8, 41709), (9, 41787), (10, 41799), (20, 42270), (29, 42474), (36, 42609), (Start: 50 @42675 has 158 MA's), (77, 42777), (79, 42786), (84, 42816), (95, 42852), (100, 42891), (109, 42957), (125, 43071), (129, 43080), (160, 43239), (162, 43245), (165, 43266), (166, 43272), (172, 43296), (174, 43302), (192, 43395), (209, 43467), (214, 43494), (220, 43542),

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

Candidate Starts for Wendigo_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331),

(125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Whiteclaw_54 Start: 35911, Stop: 37059, Start Num: 50

Candidate Starts for Whiteclaw_54:

(Start: 50 @35911 has 158 MA's), (79, 36019), (84, 36049), (125, 36304), (127, 36310), (158, 36460), (162, 36478), (165, 36499), (166, 36505), (172, 36529), (174, 36535), (185, 36598), (192, 36634), (198, 36655), (214, 36736),

Gene: WinkNick_57 Start: 37603, Stop: 38730, Start Num: 50

Candidate Starts for WinkNick_57:

(32, 37504), (36, 37549), (Start: 50 @37603 has 158 MA's), (63, 37654), (67, 37672), (75, 37699), (79, 37717), (84, 37747), (100, 37822), (105, 37858), (125, 38002), (162, 38176), (165, 38197), (166, 38203), (174, 38233), (185, 38296), (214, 38410), (261, 38605),

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

Candidate Starts for Wishmaker_53:

(Start: 42 @39868 has 22 MA's), (62, 39946), (67, 39967), (69, 39973), (74, 39991), (77, 40003), (79, 40012), (81, 40024), (84, 40042), (92, 40057), (94, 40060), (107, 40129), (109, 40147), (116, 40198), (119, 40210), (131, 40294), (141, 40360), (145, 40396), (148, 40405), (156, 40471), (161, 40495), (162, 40498), (164, 40513), (169, 40537), (173, 40552), (174, 40555), (179, 40582), (187, 40639), (197, 40684), (233, 40885), (235, 40888), (280, 41035), (281, 41047), (283, 41068), (289, 41122), (290, 41125), (291, 41134), (293, 41146), (299, 41188), (301, 41203), (312, 41305),

Gene: Wizard_54 Start: 41879, Stop: 42817, Start Num: 50

Candidate Starts for Wizard_54:

(Start: 50 @41879 has 158 MA's), (75, 41960), (79, 41978), (89, 42023), (90, 42026), (116, 42164), (125, 42227), (159, 42335), (162, 42347), (166, 42374), (169, 42386), (201, 42518), (226, 42638), (230, 42656), (242, 42707), (246, 42719), (265, 42764),

Gene: Wocket_59 Start: 38775, Stop: 39740, Start Num: 50

Candidate Starts for Wocket_59:

(Start: 50 @38775 has 158 MA's), (75, 38862), (79, 38880), (83, 38907), (84, 38910), (109, 39015), (110, 39024), (116, 39066), (162, 39249), (172, 39300), (186, 39366), (194, 39393), (268, 39678),

Gene: Wrigley_62 Start: 41702, Stop: 42805, Start Num: 50

Candidate Starts for Wrigley_62:

(Start: 50 @41702 has 158 MA's), (62, 41753), (67, 41774), (75, 41801), (79, 41819), (84, 41849), (109, 41954), (116, 42005), (127, 42074), (129, 42077), (162, 42242), (166, 42269), (172, 42293),

Gene: YangYin_44 Start: 34322, Stop: 35686, Start Num: 51

Candidate Starts for YangYin_44:

(29, 34106), (32, 34196), (Start: 43 @34286 has 4 MA's), (Start: 51 @34322 has 1 MA's), (67, 34382), (73, 34406), (92, 34475), (111, 34577), (114, 34592), (116, 34616), (125, 34679), (142, 34760), (156, 34871), (162, 34898), (169, 34937), (172, 34949), (174, 34955), (188, 35036), (189, 35039), (202, 35087), (220, 35195), (281, 35393), (303, 35552), (309, 35615), (310, 35627),

Gene: Yeet412_52 Start: 36845, Stop: 37999, Start Num: 50

Candidate Starts for Yeet412_52:

(32, 36746), (36, 36791), (Start: 50 @36845 has 158 MA's), (79, 36956), (84, 36986), (125, 37241), (162, 37415), (165, 37436), (166, 37442), (172, 37466), (174, 37472), (185, 37535), (192, 37571), (198, 37592), (214, 37676),

Gene: Yeezy_57 Start: 39122, Stop: 40219, Start Num: 50

Candidate Starts for Yeezy_57:

(Start: 50 @39122 has 158 MA's), (67, 39194), (75, 39221), (79, 39239), (84, 39269), (109, 39374), (116, 39425), (127, 39494), (129, 39497), (162, 39662), (166, 39689), (172, 39713), (214, 39896), (220, 39944), (237, 40022), (261, 40091),

Gene: Yinzer_54 Start: 35911, Stop: 37059, Start Num: 50

Candidate Starts for Yinzer_54:

(Start: 50 @35911 has 158 MA's), (79, 36019), (84, 36049), (125, 36304), (127, 36310), (158, 36460), (162, 36478), (165, 36499), (166, 36505), (172, 36529), (174, 36535), (185, 36598), (192, 36634), (198, 36655), (214, 36736),

Gene: Zameen_57 Start: 39712, Stop: 40860, Start Num: 50

Candidate Starts for Zameen_57:

(32, 39613), (36, 39658), (Start: 50 @39712 has 158 MA's), (79, 39823), (84, 39853), (125, 40108), (162, 40282), (165, 40303), (166, 40309), (172, 40333), (174, 40339), (185, 40402), (192, 40438), (198, 40459), (214, 40543), (220, 40591),

Gene: Zirinka_54 Start: 40332, Stop: 41480, Start Num: 50

Candidate Starts for Zirinka_54:

(32, 40233), (36, 40278), (Start: 50 @40332 has 158 MA's), (79, 40443), (84, 40473), (125, 40728), (162, 40902), (165, 40923), (166, 40929), (172, 40953), (174, 40959), (185, 41022), (192, 41058), (198, 41079), (214, 41163), (220, 41211),

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

Candidate Starts for ZoMa_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),

Gene: Zodiariah_56 Start: 42307, Stop: 43419, Start Num: 50

Candidate Starts for Zodiariah_56:

(Start: 50 @42307 has 158 MA's), (67, 42376), (75, 42403), (79, 42421), (84, 42451), (109, 42556), (116, 42607), (117, 42610), (127, 42676), (156, 42817), (162, 42844), (163, 42847), (166, 42871), (169, 42883), (172, 42895), (209, 43069), (214, 43096), (220, 43144),

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

Candidate Starts for Zombie_43:

(29, 32800), (Start: 45 @32989 has 45 MA's), (Start: 50 @33010 has 158 MA's), (70, 33091), (73, 33103), (78, 33124), (79, 33127), (92, 33190), (103, 33238), (108, 33271), (114, 33307), (116, 33331), (125, 33394), (127, 33400), (149, 33532), (151, 33562), (156, 33586), (162, 33613), (163, 33616), (174, 33670), (179, 33697), (220, 33904), (281, 34102), (294, 34201), (313, 34357),