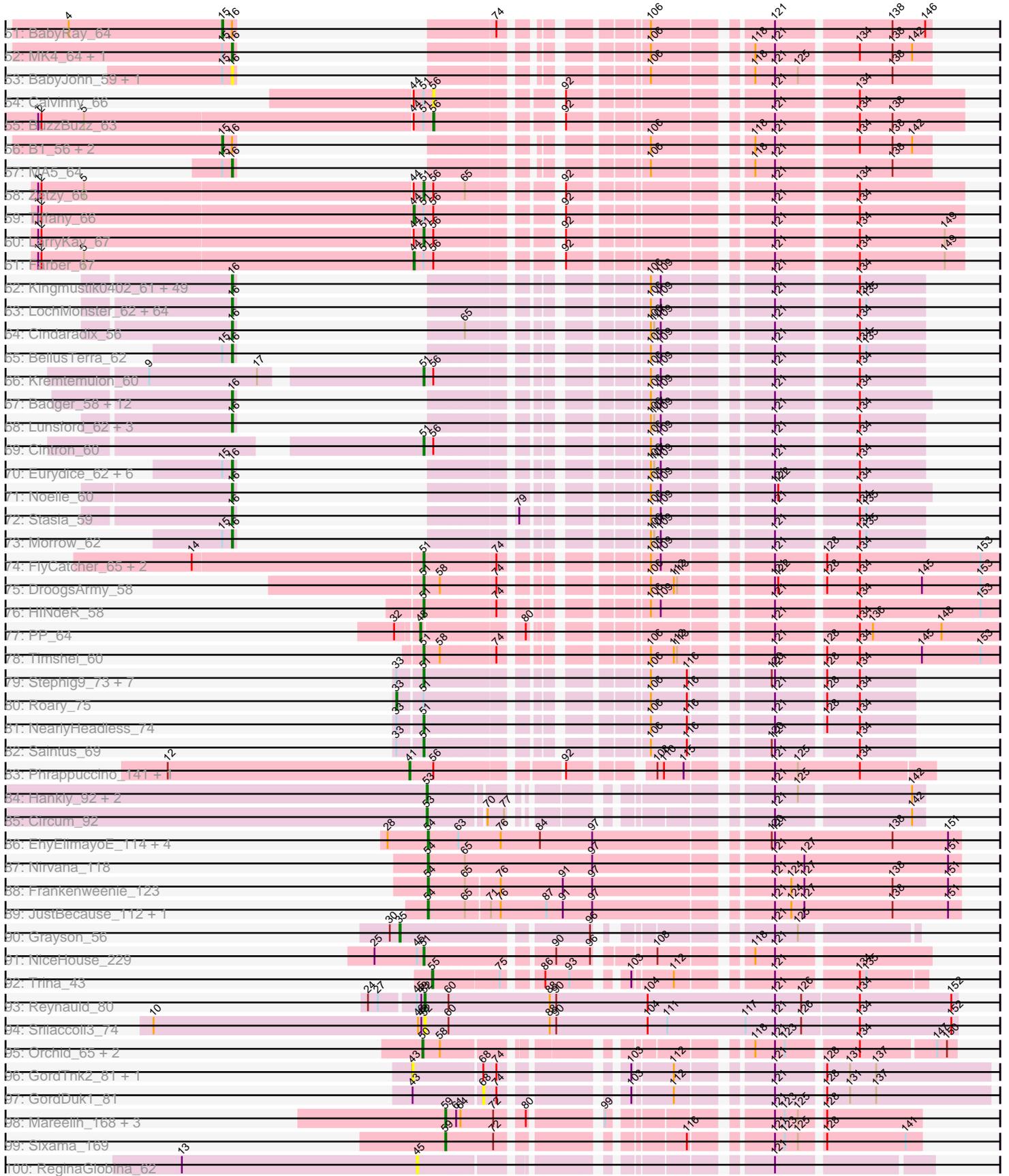


Pham 281860



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 281860 Report

This analysis was run 02/23/26 on database version 636.

Pham number 281860 has 441 members, 55 are drafts.

Phages represented in each track:

- Track 1 : Gilberta_64, Timothy_63, Flaverint_64, Orange_62, Mabel_63, Lucivia_64, Snape_63, Bowtie_64
- Track 2 : Kimba_62, Hutc2_62, Insomnia_64
- Track 3 : Bud_62, Aneem_64, Salz_62, Joselito_64, Jabith_64, TinyTimmy_63, Munch_63, Et2Brutus_62, Fibonacci_63, Mulciber_62
- Track 4 : Ebony_63
- Track 5 : Bachome_65
- Track 6 : Wolpertinger_61, Sham4_63, Petersenfast_61
- Track 7 : MaCh_63
- Track 8 : Saskia_63
- Track 9 : MyraDee_63
- Track 10 : Kimona_58
- Track 11 : Tomathan_66, DBQu4n_66, D32_65, D29_61, Pomar16_65, Travvers_65, Naji_66
- Track 12 : AN9_68, VC3_67, ANI8_68, C3_61
- Track 13 : Adzzy_67
- Track 14 : L5_61
- Track 15 : Kerberos_66, Duplo_66
- Track 16 : TipsytheTRex_62
- Track 17 : Superchunk_64, Caraxes_65
- Track 18 : MissWhite_64
- Track 19 : Ph8s_66
- Track 20 : StarStuff_66
- Track 21 : Serenity_65
- Track 22 : SwirlSquare_70
- Track 23 : Koduck_65
- Track 24 : Jsquared_66
- Track 25 : Che12_66
- Track 26 : Quokka_64, MajorMajor_64
- Track 27 : Odin_64
- Track 28 : Bradman_65
- Track 29 : Anthony_67
- Track 30 : Kinmap_64
- Track 31 : JeppNRM_68, PhishRPhriends_65, ACFishhook_65, Gemma_66, Manu_67, HaveUMetTed_68, OlanP_66, Reba_67, ClownCar_66, Phranny_68, Kalb97_68
- Track 32 : Pawn_67

- Track 33 : Heliosoles_66, Kalnoky_68, Groupthink_68, Marius_68, PurpleHaze_67
- Track 34 : QuinnKiro_62, Popcicle_63, Caviar_63, Panamaxus_61, Lambert1_63, Todacoro_63, Texage_61, Hookmount_63, EtoileNova_62, Pocahontas_63, Norbert_60, Noella_63, ResDef_62, Veracruz_61, Margo_63
- Track 35 : Penny1_67, P28Green_68, MoneyMay_66, Phoxy_67, Vix_65, LBerry_68, Spike509_67, Croquant_66, GtownJaz_67, Mainiac_67, Snickers_67, Phoebe_68, Grub_67, Cullens_67, Beauxregard13_66, PGHhamlin_69, LugYA_70, Lilith_66, Gwennie_64, Dieselweasel_68, EpicPhail_68, SoYo_66, BreSam8_67, Marie_65, DaHudson_66, Lova_66, JHC117_65, Grum1_66, Daishi_66, Grif_67, Microwolf_65, Sabinator_65, Fernando_67, Hercules11_67, Colbster_65, PotatoSplit_68
- Track 36 : GingkoMaracino_67, Rummer_66, StepMih_66
- Track 37 : Stagni_66
- Track 38 : Ollie_67
- Track 39 : HashRod_68, KADY_66, Misomonster_68, TinyPebbles_66
- Track 40 : Phantastic_65
- Track 41 : Montavir_64, Malinsilva_69, Sabia_67, Watson_66, MarQuardt_67, Pembroke_67, JenCasNa_68, Taurus_68
- Track 42 : AgronaGT15_66, Wooldri_69, Bxz2_62, Methuselah_62, Soshari_69
- Track 43 : Roimos_62, Marchesa_62, Kachowdy_62, Zarafa_62, Heathen_64, Scout_63
- Track 44 : Jobu08_65
- Track 45 : DropBear_62, Fred313_62, HelDan_63
- Track 46 : Isca_62
- Track 47 : Louie6_66
- Track 48 : SoilDragon_67, Aglet_68, MadMarie_67, MuchMore_70, Bigflo_66, AugsMagnumOpus_70
- Track 49 : Bugatti_64, Clammy_64, Giroux_66, Idleandcovert_64, SaturnRing_64, Puppy_64, Pistachio_64, TNguyen7_65, BlueBird_66
- Track 50 : Anubis_70
- Track 51 : BabyRay_64
- Track 52 : MK4_64, JF4_62
- Track 53 : BabyJohn_59, Chiqui_59
- Track 54 : Calvinny_66
- Track 55 : BuzzBuzz_63
- Track 56 : B1_56, Rockstar_62, JF2_62
- Track 57 : MA5_64
- Track 58 : Zetzy_66
- Track 59 : Tiffany_66
- Track 60 : LarryKay_67
- Track 61 : Farber_67
- Track 62 : Kingmustik0402_61, PeterPeter_61, Mayonnaise_59, Obama12_62, Pumbaa_61, KFPoly_60, LHTSCC_63, ChampagnePapi_63, Palestino_60, ICleared_60, Arturo_59, Kratark_60, Caelakin_60, Miramae_58, Rosa24_59, Funston_60, Phacado_61, Cerulean_62, OKaNui_61, Mazhar510_61, JoongJeon_60, Happiness_60, Peaches_59, Shaka_59, Relief_60, Sultana_61, Wander_61, Eris_60, Maverick_60, AvatarAhPeg_58, BangNhom_60, Cocoaberry_61, SheldonCooper_61, Gadost_61, NotAPhaseMom_60, Annyong_60, Tinybot_60, Stink_58, Phighter1804_61, Iracema64_62, DirtyDunning_60, Houdini22_60, Avle17_61, Huxley_59, Kyee_61, Bruiser_60, Mundrea_59, JetBlade_61, Nemo27_60, Shygu2_59
- Track 63 : LochMonster_62, Sparxx_62, Eros_61, Romney_60, MeeZee_60, Eapen_61, Alberto7_62, Connomayer_61, Scamp_61, LittleB_61, Wilbur_61,

Druantia_60, Ulysses_60, Roosevelt_59, Chaph_61, Pipcraft_58, TygerBlood_61, Holli_60, Citius_61, NorthStar_59, Kampy_60, Sabertooth_61, SenorClean_61, LittleGuy_61, TroyPia_62, Millski_60, Koan_58, Taquarus_60, Deano_59, Commander_60, Bartimeaus_61, Lorenzo_61, Baby16_61, YoSam321_61, Albee_61, Maxo_62, Flux_61, Skipitt_60, Blackmoor_60, TiroTheta9_60, Clarenza_60, Medusa_61, Melvin_63, Burger_59, SteMason_58, Polymorphads_62, Koreni_60, CentreCat_61, Thanksgivukkah_60, Jaykayelowell_58, KekoraPapaka_59, TinaFeyge_59, Lemur_61, LappelDuVide_61, RockieBear_59, Iceman_61, BubbleTrouble_60, Spino_60, Camperdownii_59, Nyxis_60, Broseidon_61, Ruin_61, Florean_61, Bombshell_61, Dhanush_61

- Track 64 : Cindaradix_56
- Track 65 : BellusTerra_62
- Track 66 : Kremtemulon_60
- Track 67 : Badger_58, Bumblebee11_58, Xena_58, Datway_59, PetiteSangsue_59, Wile_59, Katalie136_59, Achebe_58, Morpher26_59, Cici_59, AbbysRanger_59, Backyardigan_57, Perplexer_59
- Track 68 : Lunsford_62, Phontbonne_61, HamSlice_58, Wizard007_60
- Track 69 : Cintron_60
- Track 70 : Eurydice_62, Eagle_60, Ohfah_62, Phelipe_62, Abdiel_61, Nebs_62, LeoAvram_60
- Track 71 : Noelle_60
- Track 72 : Stasia_59
- Track 73 : Morrow_62
- Track 74 : FlyCatcher_65, Toro_63, Sheen_63
- Track 75 : DroogsArmy_58
- Track 76 : HINdeR_58
- Track 77 : PP_64
- Track 78 : Timshel_60
- Track 79 : Stephig9_73, Groundhog_73, Dixon_73, Smeadley_74, Danforth_74, Astro_74, Caitlin_72, Expelliarmus_71
- Track 80 : Roary_75
- Track 81 : NearlyHeadless_74
- Track 82 : Saintus_69
- Track 83 : Phrappuccino_141, Settecandela_141
- Track 84 : Hankly_92, GoCrazy_87, KeaneyLin_89
- Track 85 : Circum_92
- Track 86 : EhyElimayoE_114, Sarkar_121, Quantum_112, Kradal_113, Satis_113
- Track 87 : Nirvana_118
- Track 88 : Frankenweenie_123
- Track 89 : JustBecause_112, Kela_113
- Track 90 : Grayson_56
- Track 91 : NiceHouse_229
- Track 92 : Trina_43
- Track 93 : Reynauld_80
- Track 94 : Srilaccoli3_74
- Track 95 : Orchid_65, PatrickStar_66, Kampe_66
- Track 96 : GordTnk2_81, Gmala1_74
- Track 97 : GordDuk1_81
- Track 98 : Mareelih_168, BlueNGold_167, Forza_171, Boopy_170
- Track 99 : Sixama_169
- Track 100 : ReginaGlobina_62
- Track 101 : Stewart25555_54
- Track 102 : Elver_242

- Track 103 : Kureo_242
- Track 104 : Gandionco_246, Marianna39_246
- Track 105 : JeNeSaisPas_238
- Track 106 : Dodo_246
- Track 107 : A3Wally_248, PauloDiaboli_248
- Track 108 : Erasmago_237
- Track 109 : Cece_217
- Track 110 : AvadaKedavra_85, LeBron_84, Rose5_86, Acquire49_85, Tyson_86, JoeDirt_86, Wyatt2_86, UPIE_84, CicholasNage_82
- Track 111 : DirkDirk_82, Appletree2_84, Silverleaf_85
- Track 112 : Tourach_86
- Track 113 : SoJulia_89
- Track 114 : Finemlucis_87
- Track 115 : Bromden_87
- Track 116 : DyoEdafos_89
- Track 117 : Douge_87
- Track 118 : Blackbeetle_74, Poise_74
- Track 119 : RedRaider77_73, GoongGoong_70, Gattaca_71, Raela_74, Lilbit_71, LittleLaf_73, Marvin_69, MosMoris_70, Tesla_70
- Track 120 : VasuNzinga_72
- Track 121 : RunningOnE_13
- Track 122 : Azrael100_127, Cosmo_135, Wildcat_134, MaryV_120
- Track 123 : EniyanLRS_127
- Track 124 : TPA4_57
- Track 125 : Kumao_84

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

The start number called the most often in the published annotations is 16, it was called in 164 of the 386 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbysRanger_59, Abdiel_61, Achebe_58, Albee_61, Alberto7_62, Annyong_60, Arturo_59, AvatarAhPeg_58, Avle17_61, Baby16_61, BabyJohn_59, Backyardigan_57, Badger_58, BangNhom_60, Bartimeaus_61, BellusTerra_62, Blackmoor_60, BlueBird_66, Bombshell_61, Broseidon_61, Bruiser_60, BubbleTrouble_60, Bugatti_64, Bumblebee11_58, Burger_59, Caelakin_60, Camperdownii_59, Caviar_63, CentreCat_61, Cerulean_62, ChampagnePapi_63, Chaph_61, Chiqui_59, Cici_59, Cindaradix_56, Citius_61, Clammy_64, Clarenza_60, Cocoaberry_61, Commander_60, Connomayer_61, Datway_59, Deano_59, Dhanush_61, DirtyDunning_60, Druantia_60, Eagle_60, Eapen_61, Eris_60, Eros_61, EtoileNova_62, Eurydice_62, Floean_61, Flux_61, Funston_60, Gadost_61, Giroux_66, HamSlice_58, Happiness_60, Heathen_64, Holli_60, Hookmount_63, Houdini22_60, Huxley_59, ICleared_60, Iceman_61, Idleandcovert_64, Iracema64_62, JF4_62, Jaykayelowell_58, JetBlade_61, JoongJeon_60, KFPoly_60, Kachowdy_62, Kampy_60, Katalie136_59, KekoraPapaka_59, Kingmustik0402_61, Koan_58, Koreni_60, Kratark_60, Kye_61, LHTSCC_63, Lambert1_63, LappelDuVide_61, Lemur_61, LeoAvram_60, LittleB_61, LittleGuy_61, LochMonster_62, Lorenzo_61, Lunsford_62, MA5_64, MK4_64, Marchesa_62, Margo_63, Maverick_60, Maxo_62, Mayonnaise_59, Mazhar510_61,

Medusa_61, MeeZee_60, Melvin_63, Millski_60, Miramae_58, Morpher26_59, Morrow_62, Mundrea_59, Nebs_62, Nemo27_60, Noella_63, Noelle_60, Norbert_60, NorthStar_59, NotAPhaseMom_60, Nyxis_60, OKaNui_61, Obama12_62, Ohfah_62, Palestino_60, Panamaxus_61, Peaches_59, Perplexer_59, PeterPeter_61, PetiteSangsue_59, Phacado_61, Phelipe_62, Phighter1804_61, Phontbonne_61, Pipcraft_58, Pistachio_64, Pocahontas_63, Polymorphads_62, Popcicle_63, Pumbaa_61, Puppy_64, QuinnKiro_62, Relief_60, ResDef_62, RockieBear_59, Roimos_62, Romney_60, Roosevelt_59, Rosa24_59, Ruin_61, Sabertooth_61, SaturnRing_64, Scamp_61, Scout_63, SeniorClean_61, Shaka_59, SheldonCooper_61, Shygu2_59, Skipitt_60, Sparxx_62, Spino_60, Stasia_59, SteMason_58, Stink_58, Sultana_61, TNguyen7_65, Taquarus_60, Texage_61, Thanksgivukkah_60, TinaFeyge_59, Tinybot_60, TiroTheta9_60, Todacoro_63, TroyPia_62, TygerBlood_61, Ulysses_60, Veracruz_61, Wander_61, Wilbur_61, Wile_59, Wizard007_60, Xena_58, YoSam321_61, Zarafa_62,

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

• B1_56, BabyRay_64, DropBear_62, Fred313_62, HelDan_63, Isca_62, JF2_62, Phantastic_65, Rockstar_62,

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

• A3Wally_248, ACFishhook_65, AN9_68, ANI8_68, Acquire49_85, Adzzy_67, Aglet_68, AgronaGT15_66, Aneem_64, Anthony_67, Anubis_70, Appletree2_84, Astro_74, AugsMagnumOpus_70, AvadaKedavra_85, Azrael100_127, Bachome_65, Beauxregard13_66, Bigflo_66, Blackbeetle_74, BlueNGold_167, Boopy_170, Bowtie_64, Bradman_65, BreSam8_67, Bromden_87, Bud_62, BuzzBuzz_63, Bxz2_62, C3_61, Caitlin_72, Calvinny_66, Caraxes_65, Cece_217, Che12_66, CicholasNage_82, Cintron_60, Circum_92, ClownCar_66, Colbster_65, Cosmo_135, Croquant_66, Cullens_67, D29_61, D32_65, DBQu4n_66, DaHudson_66, Daishi_66, Danforth_74, Dieselweasel_68, DirkDirk_82, Dixon_73, Dodo_246, Douge_87, DroogsArmy_58, Duplo_66, DyoEdafos_89, Ebony_63, EhyElimayoE_114, Elver_242, EniyanLRS_127, EpicPhail_68, Erasmago_237, Et2Brutus_62, Expelliarmus_71, Farber_67, Fernando_67, Fibonacci_63, Finemlucis_87, Flaverint_64, FlyCatcher_65, Forza_171, Frankenweenie_123, Gandionco_246, Gattaca_71, Gemma_66, Gilberta_64, GingkoMaracino_67, Gmala1_74, GoCrazy_87, GoongGoong_70, GordDuk1_81, GordTnk2_81, Grayson_56, Grif_67, Groundhog_73, Groupthink_68, Grub_67, Grum1_66, GtownJaz_67, Gwennie_64, HINdeR_58, Hankly_92, HashRod_68, HaveUMetTed_68, Heliosoles_66, Hercules11_67, Hutc2_62, Insomnia_64, JHC117_65, Jabith_64, JeNeSaisPas_238, JenCasNa_68, JeppNRM_68, Jobu08_65, JoeDirt_86, Joselito_64, Jsquared_66, JustBecause_112, KADY_66, Kalb97_68, Kalnok_68, Kampe_66, KeaneyLin_89, Kela_113, Kerberos_66, Kimba_62, Kimona_58, Kinmap_64, Koduck_65, Kradal_113, Kremtemulon_60, Kumao_84, Kureo_242, L5_61, LBerry_68, LarryKay_67, LeBron_84, Lilbit_71, Lilith_66, LittleLaf_73, Louie6_66, Iowa_66, Lucivia_64, LugYA_70, MaCh_63, Mabel_63, MadMarie_67, Mainiac_67, MajorMajor_64, Malinsilva_69, Manu_67, MarQuardt_67, Mareelih_168, Marianna39_246, Marie_65, Marius_68, Marvin_69, MaryV_120, Methuselah_62, Microwolf_65, Misomonster_68, MissWhite_64, MoneyMay_66, Montavir_64, MosMoris_70, MuchMore_70, Mulciber_62, Munch_63, MyraDee_63, Naji_66, NearlyHeadless_74, NiceHouse_229, Nirvana_118, Odin_64, OlanP_66, Ollie_67, Orange_62, Orchid_65, P28Green_68, PGHhamlin_69, PP_64, PatrickStar_66, PauloDiaboli_248, Pawn_67, Pembroke_67, Penny1_67, Petersenfast_61, Ph8s_66, PhishRPhriends_65, Phoebe_68, Phoxy_67, Phranny_68, Phrappuccino_141, Poise_74, Pomar16_65, PotatoSplit_68, PurpleHaze_67, Quantum_112, Quokka_64,

Raela_74, Reba_67, RedRaider77_73, ReginaGlobina_62, Reynauld_80, Roary_75, Rose5_86, Rummer_66, RunningOnE_13, Sabia_67, Sabinator_65, Saintus_69, Salz_62, Sarkar_121, Saskia_63, Satis_113, Serenity_65, Settecandela_141, Sham4_63, Sheen_63, Silverleaf_85, Sixama_169, Smeadley_74, Snape_63, Snickers_67, SoJulia_89, SoYo_66, SoilDragon_67, Soshari_69, Spike509_67, Srilaccoli3_74, Stagni_66, StarStuff_66, StepMih_66, StepHig9_73, Stewart25555_54, Superchunk_64, SwirlSquare_70, TPA4_57, Taurus_68, Tesla_70, Tiffany_66, Timothy_63, Timshel_60, TinyPebbles_66, TinyTimmy_63, TopsytheTRex_62, Tomathan_66, Toro_63, Tourach_86, Travvers_65, Trina_43, Tyson_86, UPIE_84, VC3_67, VasuNzinga_72, Vix_65, Watson_66, Wildcat_134, Wolpertinger_61, Wooldri_69, Wyatt2_86, Zetzy_66,

Summary by start number:

Start 15:

- Found in 53 of 441 (12.0%) of genes in pham
- Manual Annotations of this start: 8 of 386
- Called 17.0% of time when present
- Phage (with cluster) where this start called: B1_56 (A3), BabyRay_64 (A3), DropBear_62 (A3), Fred313_62 (A3), HelDan_63 (A3), Isca_62 (A3), JF2_62 (A3), Phantastic_65 (A3), Rockstar_62 (A3),

Start 16:

- Found in 188 of 441 (42.6%) of genes in pham
- Manual Annotations of this start: 164 of 386
- Called 95.2% of time when present
- Phage (with cluster) where this start called: AbbysRanger_59 (A4), Abdiel_61 (A4), Achebe_58 (A4), Albee_61 (A4), Alberto7_62 (A4), Annyong_60 (A4), Arturo_59 (A4), AvatarAhPeg_58 (A4), Avle17_61 (A4), Baby16_61 (A4), BabyJohn_59 (A3), Backyardigan_57 (A4), Badger_58 (A4), BangNhom_60 (A4), Bartimeaus_61 (A4), BellusTerra_62 (A4), Blackmoor_60 (A4), BlueBird_66 (A3), Bombshell_61 (A4), Broseidon_61 (A4), Bruiser_60 (A4), BubbleTrouble_60 (A4), Bugatti_64 (A3), Bumblebee11_58 (A4), Burger_59 (A4), Caelakin_60 (A4), Camperdownii_59 (A4), Caviar_63 (A3), CentreCat_61 (A4), Cerulean_62 (A4), ChampagnePapi_63 (A4), Chaph_61 (A4), Chiqui_59 (A3), Cici_59 (A4), Cindaradix_56 (A4), Citius_61 (A4), Clammy_64 (A3), Clarenza_60 (A4), Cocoaberry_61 (A4), Commander_60 (A4), Connomayer_61 (A4), Datway_59 (A4), Deano_59 (A4), Dhanush_61 (A4), DirtyDunning_60 (A4), Druantia_60 (A4), Eagle_60 (A4), Eapen_61 (A4), Eris_60 (A4), Eros_61 (A4), EtoileNova_62 (A3), Eurydice_62 (A4), Florean_61 (A4), Flux_61 (A4), Funston_60 (A4), Gadost_61 (A4), Giroux_66 (A3), HamSlice_58 (A4), Happiness_60 (A4), Heathen_64 (A3), Holli_60 (A4), Hookmount_63 (A3), Houdini22_60 (A4), Huxley_59 (A4), ICleared_60 (A4), Iceman_61 (A4), Idleandcovert_64 (A3), Iracema64_62 (A4), JF4_62 (A3), Jaykayelowell_58 (A4), JetBlade_61 (A4), JoongJeon_60 (A4), KFPoly_60 (A4), Kachowdy_62 (A3), Kamy_60 (A4), Katalie136_59 (A4), KekoraPapaka_59 (A4), Kingmustik0402_61 (A4), Koan_58 (A4), Koreni_60 (A4), Kratak_60 (A4), Kyee_61 (A4), LHTSCC_63 (A4), Lambert1_63 (A3), LappelDuVide_61 (A4), Lemur_61 (A4), LeoAvram_60 (A4), LittleB_61 (A4), LittleGuy_61 (A4), LochMonster_62 (A4), Lorenzo_61 (A4), Lunsford_62 (A4), MA5_64 (A3), MK4_64 (A3), Marchesa_62 (A3), Margo_63 (A3), Maverick_60 (A4), Maxo_62 (A4), Mayonnaise_59 (A4), Mazhar510_61 (A4), Medusa_61 (A4), MeeZee_60 (A4), Melvin_63 (A4), Millski_60 (A4), Miramae_58 (A4), Morpher26_59 (A4), Morrow_62 (A4), Mundrea_59 (A4), Nebs_62 (A4), Nemo27_60 (A4), Noella_63 (A3), Noelle_60 (A4), Norbert_60 (A3), NorthStar_59

(A4), NotAPhaseMom_60 (A4), Nyxis_60 (A4), OKaNui_61 (A4), Obama12_62 (A4), Ohfah_62 (A4), Palestino_60 (A4), Panamaxus_61 (A3), Peaches_59 (A4), Perplexer_59 (A4), PeterPeter_61 (A4), PetiteSangsue_59 (A4), Phacado_61 (A4), Phelipe_62 (A4), Phighter1804_61 (A4), Phontbonne_61 (A4), Pipcraft_58 (A4), Pistachio_64 (A3), Pocahontas_63 (A3), Polymorphads_62 (A4), Popcicle_63 (A3), Pumbaa_61 (A4), Puppy_64 (A3), QuinnKiro_62 (A3), Relief_60 (A4), ResDef_62 (A3), RockieBear_59 (A4), Roimos_62 (A3), Romney_60 (A4), Roosevelt_59 (A4), Rosa24_59 (A4), Ruin_61 (A4), Sabertooth_61 (A4), SaturnRing_64 (A3), Scamp_61 (A4), Scout_63 (A3), SenorClean_61 (A4), Shaka_59 (A4), SheldonCooper_61 (A4), Shygu2_59 (A4), Skipitt_60 (A4), Sparxx_62 (A4), Spino_60 (A4), Stasia_59 (A4), SteMason_58 (A4), Stink_58 (A4), Sultana_61 (A4), TNguyen7_65 (A3), Taquarus_60 (A4), Texage_61 (A3), Thanksgivukkah_60 (A4), TinaFeyge_59 (A4), Tinybot_60 (A4), TiroTheta9_60 (A4), Todacoro_63 (A3), TroyPia_62 (A4), TygerBlood_61 (A4), Ulysses_60 (A4), Veracruz_61 (A3), Wander_61 (A4), Wilbur_61 (A4), Wile_59 (A4), Wizard007_60 (A4), Xena_58 (A4), YoSam321_61 (A4), Zarafa_62 (A3),

Start 33:

- Found in 11 of 441 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 386
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Roary_75 (A8),

Start 35:

- Found in 1 of 441 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 386
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_56 (CB),

Start 37:

- Found in 1 of 441 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 386
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MyraDee_63 (A18),

Start 40:

- Found in 3 of 441 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 386
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Finemlucis_87 (L2),

Start 41:

- Found in 3 of 441 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 386
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Phrappuccino_141 (AA), Settecandela_141 (AA),

Start 42:

- Found in 40 of 441 (9.1%) of genes in pham
- Manual Annotations of this start: 16 of 386
- Called 52.5% of time when present

- Phage (with cluster) where this start called: Bachome_65 (A11), Blackbeetle_74 (S), Ebony_63 (A11), Gattaca_71 (S), GoongGoong_70 (S), Hutc2_62 (A11), Insomnia_64 (A11), Kimba_62 (A11), Lilbit_71 (S), LittleLaf_73 (S), Marvin_69 (S), MosMoris_70 (S), Petersenfast_61 (A11), Poise_74 (S), Raela_74 (S), RedRaider77_73 (S), Saskia_63 (A11), Sham4_63 (A11), Tesla_70 (S), VasuNzinga_72 (S), Wolpertinger_61 (A11),

Start 43:

- Found in 3 of 441 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Gmala1_74 (DF1), GordTnk2_81 (DF1),

Start 44:

- Found in 91 of 441 (20.6%) of genes in pham
- Manual Annotations of this start: 5 of 386
- Called 5.5% of time when present
- Phage (with cluster) where this start called: Anthony_67 (A20), Anubis_70 (A3), Farber_67 (A3), Jobu08_65 (A3), Tiffany_66 (A3),

Start 45:

- Found in 11 of 441 (2.5%) of genes in pham
- Manual Annotations of this start: 4 of 386
- Called 63.6% of time when present
- Phage (with cluster) where this start called: Bromden_87 (L4), Douge_87 (L4), DyoEdafos_89 (L4), ReginaGlobina_62 (FC), SoJulia_89 (L2), TPA4_57 (singleton), Tourach_86 (L2),

Start 47:

- Found in 1 of 441 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 386
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece_217 (GD3),

Start 48:

- Found in 6 of 441 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 386
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver_242 (FK), Gandionco_246 (FK), JeNeSaisPas_238 (FK), Kureo_242 (FK), Marianna39_246 (FK), PP_64 (A7),

Start 50:

- Found in 3 of 441 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 386
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kampe_66 (CX), Orchid_65 (CX), PatrickStar_66 (CX),

Start 51:

- Found in 187 of 441 (42.4%) of genes in pham
- Manual Annotations of this start: 139 of 386
- Called 82.9% of time when present

- Phage (with cluster) where this start called: A3Wally_248 (GD1), ACFishhook_65 (A3), AN9_68 (A2), ANI8_68 (A2), Acquire49_85 (L1), Adzzy_67 (A2), Aglet_68 (A3), AgronaGT15_66 (A3), Aneem_64 (A11), Appletree2_84 (L1), Astro_74 (A8), AugsMagnumOpus_70 (A3), AvadaKedavra_85 (L1), Beauxregard13_66 (A3), Bigflo_66 (A3), Bowtie_64 (A11), BreSam8_67 (A3), Bud_62 (A11), Bxz2_62 (A3), C3_61 (A2), Caitlin_72 (A8), Caraxes_65 (A2), Che12_66 (A2), CicholasNage_82 (L1), Cintron_60 (A4), ClownCar_66 (A3), Colbster_65 (A3), Croquant_66 (A3), Cullens_67 (A3), D29_61 (A2), D32_65 (A2), DBQu4n_66 (A2), DaHudson_66 (A3), Daishi_66 (A3), Danforth_74 (A8), Dieselweasel_68 (A3), DirkDirk_82 (L1), Dixon_73 (A8), Dodo_246 (GD1), DroogsArmy_58 (A7), Duplo_66 (A2), EpicPhail_68 (A3), Erasmago_237 (GD2), Et2Brutus_62 (A11), Expelliarmus_71 (A8), Fernando_67 (A3), Fibonacci_63 (A11), Flaverint_64 (A11), FlyCatcher_65 (A7), Gemma_66 (A3), Gilberta_64 (A11), Grif_67 (A3), Groundhog_73 (A8), Groupthink_68 (A3), Grub_67 (A3), Grum1_66 (A3), GtownJaz_67 (A3), Gwennie_64 (A3), HINdeR_58 (A7), HashRod_68 (A3), HaveUMetTed_68 (A3), Heliosoles_66 (A3), Hercules11_67 (A3), JHC117_65 (A3), Jabith_64 (A11), JeppNRM_68 (A3), JoeDirt_86 (L1), Joselito_64 (A11), Jsquared_66 (A2), KADY_66 (A3), Kalb97_68 (A3), Kalnoky_68 (A3), Kerberos_66 (A2), Kimona_58 (A19), Koduck_65 (A2), Kremtemulon_60 (A4), L5_61 (A2), LBerry_68 (A3), LarryKay_67 (A3), LeBron_84 (L1), Lilith_66 (A3), Louie6_66 (A3), Iowa_66 (A3), Lucivia_64 (A11), LugYA_70 (A3), MaCh_63 (A11), Mabel_63 (A11), MadMarie_67 (A3), Mainiac_67 (A3), MajorMajor_64 (A2), Manu_67 (A3), Marie_65 (A3), Marius_68 (A3), Methuselah_62 (A3), Microwolf_65 (A3), Misomonster_68 (A3), MissWhite_64 (A2), MoneyMay_66 (A3), MuchMore_70 (A3), Mulciber_62 (A11), Munch_63 (A11), Naji_66 (A2), NearlyHeadless_74 (A8), NiceHouse_229 (CE), OlanP_66 (A3), Ollie_67 (A3), Orange_62 (A11), P28Green_68 (A3), PGHhamlin_69 (A3), PauloDiaboli_248 (GD1), Pawn_67 (A3), Penny1_67 (A3), Ph8s_66 (A2), PhishRPhriends_65 (A3), Phoebe_68 (A3), Phoxy_67 (A3), Phranny_68 (A3), Pomar16_65 (A2), PotatoSplit_68 (A3), PurpleHaze_67 (A3), Quokka_64 (A2), Reba_67 (A3), Rose5_86 (L1), Sabinator_65 (A3), Saintus_69 (A8), Salz_62 (A11), Serenity_65 (A2), Sheen_63 (A7), Silverleaf_85 (L1), Smeadley_74 (A8), Snape_63 (A11), Snickers_67 (A3), SoYo_66 (A3), SoilDragon_67 (A3), Soshari_69 (A3), Spike509_67 (A3), StarStuff_66 (A2), Stephig9_73 (A8), Superchunk_64 (A2), SwirlSquare_70 (A2), Timothy_63 (A11), Timshel_60 (A7), TinyPebbles_66 (A3), TinyTimmy_63 (A11), TopsytheTRex_62 (A2), Tomathan_66 (A2), Toro_63 (A7), Travvers_65 (A2), Tyson_86 (L1), UPIE_84 (L1), VC3_67 (A2), Vix_65 (A3), Wooldri_69 (A3), Wyatt2_86 (L1), Zetzy_66 (A3),

Start 52:

- Found in 2 of 441 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 386
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Reynauld_80 (CH), Srilaccoli3_74 (CH),

Start 53:

- Found in 10 of 441 (2.3%) of genes in pham
- Manual Annotations of this start: 9 of 386
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100_127 (V), Circum_92 (AM), Cosmo_135 (V), EniyanLRS_127 (V), GoCrazy_87 (AM), Hankly_92 (AM), KeaneyLin_89 (AM), MaryV_120 (V), Stewart25555_54 (FC), Wildcat_134 (V),

Start 54:

- Found in 9 of 441 (2.0%) of genes in pham

- Manual Annotations of this start: 8 of 386
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE_114 (BM), Frankenweenie_123 (BM), JustBecause_112 (BM), Kela_113 (BM), Kradal_113 (BM), Nirvana_118 (BM), Quantum_112 (BM), Sarkar_121 (BM), Satis_113 (BM),

Start 55:

- Found in 1 of 441 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 386
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trina_43 (CE),

Start 56:

- Found in 107 of 441 (24.3%) of genes in pham
- Manual Annotations of this start: 14 of 386
- Called 15.9% of time when present
- Phage (with cluster) where this start called: BuzzBuzz_63 (A3), Calvinny_66 (A3), GingkoMaracino_67 (A3), JenCasNa_68 (A3), Kinmap_64 (A21), Kumao_84 (singleton), Malinsilva_69 (A3), MarQuardt_67 (A3), Montavir_64 (A3), Odin_64 (A2), Pembroke_67 (A3), Rummer_66 (A3), Sabia_67 (A3), Stagni_66 (A3), StepMih_66 (A3), Taurus_68 (A3), Watson_66 (A3),

Start 57:

- Found in 12 of 441 (2.7%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Bradman_65 (A2), RunningOnE_13 (UNK),

Start 59:

- Found in 5 of 441 (1.1%) of genes in pham
- Manual Annotations of this start: 5 of 386
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_167 (DS), Boopy_170 (DS), Forza_171 (DS), Mareelih_168 (DS), Sixama_169 (DS),

Start 68:

- Found in 8 of 441 (1.8%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: GordDuk1_81 (DF1),

Summary by clusters:

There are 31 clusters represented in this pham: GD1, singleton, GD3, BM, L1, GD2, FC, FK, DS, A11, DF1, A18, A3, A2, A4, A7, A8, AA, CH, CB, AM, CE, S, CX, L2, V, UNK, A20, A21, A19, L4,

Info for manual annotations of cluster A11:

- Start number 42 was manually annotated 5 times for cluster A11.
- Start number 51 was manually annotated 19 times for cluster A11.

Info for manual annotations of cluster A18:

- Start number 37 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 51 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 51 was manually annotated 22 times for cluster A2.
- Start number 56 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:

- Start number 44 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 15 was manually annotated 8 times for cluster A3.
- Start number 16 was manually annotated 25 times for cluster A3.
- Start number 44 was manually annotated 4 times for cluster A3.
- Start number 51 was manually annotated 67 times for cluster A3.
- Start number 56 was manually annotated 12 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 16 was manually annotated 139 times for cluster A4.
- Start number 51 was manually annotated 2 times for cluster A4.

Info for manual annotations of cluster A7:

- Start number 48 was manually annotated 1 time for cluster A7.
- Start number 51 was manually annotated 4 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 33 was manually annotated 1 time for cluster A8.
- Start number 51 was manually annotated 9 times for cluster A8.

Info for manual annotations of cluster AA:

- Start number 41 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AM:

- Start number 53 was manually annotated 4 times for cluster AM.

Info for manual annotations of cluster BM:

- Start number 54 was manually annotated 8 times for cluster BM.

Info for manual annotations of cluster CB:

- Start number 35 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CE:

- Start number 51 was manually annotated 1 time for cluster CE.
- Start number 55 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CH:

- Start number 52 was manually annotated 1 time for cluster CH.

Info for manual annotations of cluster CX:

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

Info for manual annotations of cluster DS:

- Start number 59 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster FK:

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

Info for manual annotations of cluster GD1:

- Start number 51 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD3:

- Start number 47 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster L1:

- Start number 51 was manually annotated 12 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 40 was manually annotated 1 time for cluster L2.
- Start number 45 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L4:

- Start number 45 was manually annotated 3 times for cluster L4.

Info for manual annotations of cluster S:

- Start number 42 was manually annotated 11 times for cluster S.

Info for manual annotations of cluster V:

- Start number 53 was manually annotated 5 times for cluster V.

Gene Information:

Gene: A3Wally_248 Start: 138625, Stop: 139011, Start Num: 51

Candidate Starts for A3Wally_248:

(Start: 51 @138625 has 139 MA's), (85, 138712), (110, 138796), (118, 138856), (121, 138874), (125, 138895), (138, 138973), (143, 138994),

Gene: ACFishhook_65 Start: 40901, Stop: 40482, Start Num: 51

Candidate Starts for ACFishhook_65:

(8, 41156), (Start: 44 @40910 has 5 MA's), (Start: 51 @40901 has 139 MA's), (Start: 56 @40892 has 14 MA's), (92, 40799), (121, 40646), (134, 40577),

Gene: AN9_68 Start: 40889, Stop: 40512, Start Num: 51

Candidate Starts for AN9_68:

(19, 41003), (Start: 51 @40889 has 139 MA's), (Start: 56 @40880 has 14 MA's), (62, 40859), (66, 40841), (74, 40826), (121, 40637), (127, 40610), (130, 40586), (134, 40568),

Gene: ANI8_68 Start: 40889, Stop: 40512, Start Num: 51

Candidate Starts for ANI8_68:

(19, 41003), (Start: 51 @40889 has 139 MA's), (Start: 56 @40880 has 14 MA's), (62, 40859), (66, 40841), (74, 40826), (121, 40637), (127, 40610), (130, 40586), (134, 40568),

Gene: AbbysRanger_59 Start: 40097, Stop: 39711, Start Num: 16

Candidate Starts for AbbysRanger_59:

(Start: 16 @40097 has 164 MA's), (106, 39938), (109, 39929), (121, 39845), (134, 39776),

Gene: Abdiel_61 Start: 40247, Stop: 39867, Start Num: 16

Candidate Starts for Abdiel_61:

(Start: 15 @40256 has 8 MA's), (Start: 16 @40247 has 164 MA's), (106, 40088), (107, 40085), (109, 40079), (121, 39995), (134, 39926),

Gene: Achebe_58 Start: 40080, Stop: 39694, Start Num: 16

Candidate Starts for Achebe_58:

(Start: 16 @40080 has 164 MA's), (106, 39921), (109, 39912), (121, 39828), (134, 39759),

Gene: Acquire49_85 Start: 54457, Stop: 54870, Start Num: 51

Candidate Starts for Acquire49_85:

(Start: 51 @54457 has 139 MA's), (67, 54508), (70, 54514), (121, 54748), (125, 54769), (127, 54775), (134, 54817),

Gene: Adzzy_67 Start: 39457, Stop: 39080, Start Num: 51

Candidate Starts for Adzzy_67:

(39, 39472), (Start: 51 @39457 has 139 MA's), (Start: 56 @39448 has 14 MA's), (62, 39427), (89, 39361), (106, 39298), (121, 39205), (134, 39136),

Gene: Aglet_68 Start: 40944, Stop: 40525, Start Num: 51

Candidate Starts for Aglet_68:

(1, 41292), (2, 41289), (5, 41250), (Start: 44 @40953 has 5 MA's), (Start: 51 @40944 has 139 MA's), (Start: 56 @40935 has 14 MA's), (92, 40842), (121, 40689), (134, 40620),

Gene: AgronaGT15_66 Start: 40792, Stop: 40373, Start Num: 51

Candidate Starts for AgronaGT15_66:

(1, 41140), (2, 41137), (5, 41098), (Start: 44 @40801 has 5 MA's), (Start: 51 @40792 has 139 MA's), (Start: 56 @40783 has 14 MA's), (92, 40690), (121, 40537), (134, 40468), (149, 40390),

Gene: Albee_61 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for Albee_61:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: Alberto7_62 Start: 40580, Stop: 40200, Start Num: 16

Candidate Starts for Alberto7_62:

(Start: 16 @40580 has 164 MA's), (106, 40421), (109, 40412), (121, 40328), (134, 40259), (135, 40253),

Gene: Aneem_64 Start: 39830, Stop: 39456, Start Num: 51

Candidate Starts for Aneem_64:

(3, 40166), (7, 40118), (11, 40061), (20, 39938), (21, 39911), (Start: 42 @39842 has 16 MA's), (Start: 51 @39830 has 139 MA's), (89, 39734), (106, 39671), (109, 39662), (112, 39650), (118, 39596), (121, 39578), (134, 39509),

Gene: Annyong_60 Start: 40288, Stop: 39908, Start Num: 16
Candidate Starts for Annyong_60:
(Start: 16 @40288 has 164 MA's), (106, 40129), (109, 40120), (121, 40036), (134, 39967),

Gene: Anthony_67 Start: 41229, Stop: 40837, Start Num: 44
Candidate Starts for Anthony_67:
(26, 41259), (Start: 44 @41229 has 5 MA's), (67, 41169), (121, 40971), (134, 40902),

Gene: Anubis_70 Start: 40839, Stop: 40411, Start Num: 44
Candidate Starts for Anubis_70:
(1, 41178), (2, 41175), (5, 41136), (6, 41127), (Start: 44 @40839 has 5 MA's), (Start: 51 @40830 has 139 MA's), (Start: 56 @40821 has 14 MA's), (92, 40728), (121, 40575), (134, 40506),

Gene: Appletree2_84 Start: 54041, Stop: 54460, Start Num: 51
Candidate Starts for Appletree2_84:
(Start: 51 @54041 has 139 MA's), (98, 54194), (121, 54332), (125, 54353), (127, 54359), (134, 54401),

Gene: Arturo_59 Start: 40358, Stop: 39978, Start Num: 16
Candidate Starts for Arturo_59:
(Start: 16 @40358 has 164 MA's), (106, 40199), (109, 40190), (121, 40106), (134, 40037),

Gene: Astro_74 Start: 41340, Stop: 40969, Start Num: 51
Candidate Starts for Astro_74:
(Start: 33 @41361 has 1 MA's), (Start: 51 @41340 has 139 MA's), (106, 41181), (116, 41148), (120, 41091), (121, 41088), (128, 41049), (134, 41019),

Gene: AugsMagnumOpus_70 Start: 40935, Stop: 40516, Start Num: 51
Candidate Starts for AugsMagnumOpus_70:
(1, 41283), (2, 41280), (5, 41241), (Start: 44 @40944 has 5 MA's), (Start: 51 @40935 has 139 MA's), (Start: 56 @40926 has 14 MA's), (92, 40833), (121, 40680), (134, 40611),

Gene: AvadaKedavra_85 Start: 54536, Stop: 54949, Start Num: 51
Candidate Starts for AvadaKedavra_85:
(Start: 51 @54536 has 139 MA's), (67, 54587), (70, 54593), (121, 54827), (125, 54848), (127, 54854), (134, 54896),

Gene: AvatarAhPeg_58 Start: 39870, Stop: 39484, Start Num: 16
Candidate Starts for AvatarAhPeg_58:
(Start: 16 @39870 has 164 MA's), (106, 39711), (109, 39702), (121, 39618), (134, 39549),

Gene: Avle17_61 Start: 40240, Stop: 39860, Start Num: 16
Candidate Starts for Avle17_61:
(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919),

Gene: Azrael100_127 Start: 63905, Stop: 64339, Start Num: 53
Candidate Starts for Azrael100_127:
(Start: 53 @63905 has 9 MA's), (57, 63914), (68, 63950), (69, 63953), (90, 64016), (100, 64064), (102, 64070), (105, 64094), (119, 64193), (121, 64208), (133, 64280),

Gene: B1_56 Start: 38826, Stop: 38434, Start Num: 15
Candidate Starts for B1_56:
(Start: 15 @38826 has 8 MA's), (Start: 16 @38817 has 164 MA's), (106, 38661), (118, 38586), (121, 38568), (134, 38499), (138, 38469), (142, 38451),

Gene: Baby16_61 Start: 40254, Stop: 39874, Start Num: 16

Candidate Starts for Baby16_61:

(Start: 16 @40254 has 164 MA's), (106, 40095), (109, 40086), (121, 40002), (134, 39933), (135, 39927),

Gene: BabyJohn_59 Start: 40644, Stop: 40261, Start Num: 16

Candidate Starts for BabyJohn_59:

(Start: 15 @40653 has 8 MA's), (Start: 16 @40644 has 164 MA's), (106, 40488), (118, 40413), (121, 40395), (125, 40374), (138, 40296),

Gene: BabyRay_64 Start: 40631, Stop: 40239, Start Num: 15

Candidate Starts for BabyRay_64:

(4, 40772), (Start: 15 @40631 has 8 MA's), (Start: 16 @40622 has 164 MA's), (74, 40559), (106, 40466), (121, 40373), (138, 40274), (146, 40244),

Gene: Bachome_65 Start: 39822, Stop: 39436, Start Num: 42

Candidate Starts for Bachome_65:

(3, 40146), (7, 40098), (11, 40041), (20, 39918), (Start: 42 @39822 has 16 MA's), (Start: 51 @39810 has 139 MA's), (89, 39714), (106, 39651), (109, 39642), (112, 39630), (118, 39576), (121, 39558), (134, 39489),

Gene: Backyardigan_57 Start: 40113, Stop: 39727, Start Num: 16

Candidate Starts for Backyardigan_57:

(Start: 16 @40113 has 164 MA's), (106, 39954), (109, 39945), (121, 39861), (134, 39792),

Gene: Badger_58 Start: 40081, Stop: 39695, Start Num: 16

Candidate Starts for Badger_58:

(Start: 16 @40081 has 164 MA's), (106, 39922), (109, 39913), (121, 39829), (134, 39760),

Gene: BangNhom_60 Start: 40646, Stop: 40266, Start Num: 16

Candidate Starts for BangNhom_60:

(Start: 16 @40646 has 164 MA's), (106, 40487), (109, 40478), (121, 40394), (134, 40325),

Gene: Bartimeaus_61 Start: 40245, Stop: 39865, Start Num: 16

Candidate Starts for Bartimeaus_61:

(Start: 16 @40245 has 164 MA's), (106, 40086), (109, 40077), (121, 39993), (134, 39924), (135, 39918),

Gene: Beauxregard13_66 Start: 40947, Stop: 40528, Start Num: 51

Candidate Starts for Beauxregard13_66:

(1, 41295), (2, 41292), (Start: 44 @40956 has 5 MA's), (Start: 51 @40947 has 139 MA's), (Start: 56 @40938 has 14 MA's), (92, 40845), (121, 40692), (134, 40623),

Gene: BellusTerra_62 Start: 40247, Stop: 39867, Start Num: 16

Candidate Starts for BellusTerra_62:

(Start: 15 @40256 has 8 MA's), (Start: 16 @40247 has 164 MA's), (106, 40088), (109, 40079), (121, 39995), (134, 39926), (135, 39920),

Gene: Bigflo_66 Start: 40943, Stop: 40524, Start Num: 51

Candidate Starts for Bigflo_66:

(1, 41291), (2, 41288), (5, 41249), (Start: 44 @40952 has 5 MA's), (Start: 51 @40943 has 139 MA's), (Start: 56 @40934 has 14 MA's), (92, 40841), (121, 40688), (134, 40619),

Gene: Blackbeetle_74 Start: 40595, Stop: 41086, Start Num: 42
Candidate Starts for Blackbeetle_74:
(Start: 42 @40595 has 16 MA's), (95, 40742), (121, 40898), (122, 40901), (128, 40937), (134, 40967),
(139, 41000),

Gene: Blackmoor_60 Start: 40245, Stop: 39865, Start Num: 16
Candidate Starts for Blackmoor_60:
(Start: 16 @40245 has 164 MA's), (106, 40086), (109, 40077), (121, 39993), (134, 39924), (135,
39918),

Gene: BlueBird_66 Start: 40669, Stop: 40286, Start Num: 16
Candidate Starts for BlueBird_66:
(4, 40819), (Start: 15 @40678 has 8 MA's), (Start: 16 @40669 has 164 MA's), (106, 40513), (114,
40486), (118, 40438), (121, 40420), (138, 40321), (146, 40291),

Gene: BlueNGold_167 Start: 97256, Stop: 96897, Start Num: 59
Candidate Starts for BlueNGold_167:
(Start: 59 @97256 has 5 MA's), (61, 97247), (64, 97244), (72, 97214), (80, 97193), (99, 97139), (121,
97022), (123, 97013), (125, 97001), (128, 96983),

Gene: Bombshell_61 Start: 40240, Stop: 39860, Start Num: 16
Candidate Starts for Bombshell_61:
(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919), (135,
39913),

Gene: Boopy_170 Start: 97267, Stop: 96908, Start Num: 59
Candidate Starts for Boopy_170:
(Start: 59 @97267 has 5 MA's), (61, 97258), (64, 97255), (72, 97225), (80, 97204), (99, 97150), (121,
97033), (123, 97024), (125, 97012), (128, 96994),

Gene: Bowtie_64 Start: 39837, Stop: 39463, Start Num: 51
Candidate Starts for Bowtie_64:
(3, 40173), (7, 40125), (11, 40068), (20, 39945), (Start: 42 @39849 has 16 MA's), (Start: 51 @39837
has 139 MA's), (106, 39678), (109, 39669), (118, 39603), (121, 39585), (134, 39516),

Gene: Bradman_65 Start: 39794, Stop: 39429, Start Num: 57
Candidate Starts for Bradman_65:
(19, 39920), (39, 39821), (Start: 51 @39806 has 139 MA's), (57, 39794), (74, 39743), (106, 39647),
(121, 39554), (134, 39485),

Gene: BreSam8_67 Start: 40937, Stop: 40518, Start Num: 51
Candidate Starts for BreSam8_67:
(1, 41285), (2, 41282), (Start: 44 @40946 has 5 MA's), (Start: 51 @40937 has 139 MA's), (Start: 56
@40928 has 14 MA's), (92, 40835), (121, 40682), (134, 40613),

Gene: Bromden_87 Start: 56046, Stop: 56465, Start Num: 45
Candidate Starts for Bromden_87:
(38, 56034), (Start: 45 @56046 has 4 MA's), (67, 56103), (78, 56127), (83, 56148), (98, 56205), (102,
56226), (121, 56343), (134, 56412),

Gene: Broseidon_61 Start: 40245, Stop: 39865, Start Num: 16
Candidate Starts for Broseidon_61:

(Start: 16 @40245 has 164 MA's), (106, 40086), (109, 40077), (121, 39993), (134, 39924), (135, 39918),

Gene: Bruiser_60 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for Bruiser_60:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922),

Gene: BubbleTrouble_60 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for BubbleTrouble_60:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: Bud_62 Start: 39384, Stop: 39010, Start Num: 51

Candidate Starts for Bud_62:

(3, 39720), (7, 39672), (11, 39615), (20, 39492), (21, 39465), (Start: 42 @39396 has 16 MA's), (Start: 51 @39384 has 139 MA's), (89, 39288), (106, 39225), (109, 39216), (112, 39204), (118, 39150), (121, 39132), (134, 39063),

Gene: Bugatti_64 Start: 40669, Stop: 40286, Start Num: 16

Candidate Starts for Bugatti_64:

(4, 40819), (Start: 15 @40678 has 8 MA's), (Start: 16 @40669 has 164 MA's), (106, 40513), (114, 40486), (118, 40438), (121, 40420), (138, 40321), (146, 40291),

Gene: Bumblebee11_58 Start: 40083, Stop: 39697, Start Num: 16

Candidate Starts for Bumblebee11_58:

(Start: 16 @40083 has 164 MA's), (106, 39924), (109, 39915), (121, 39831), (134, 39762),

Gene: Burger_59 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for Burger_59:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: BuzzBuzz_63 Start: 40962, Stop: 40552, Start Num: 56

Candidate Starts for BuzzBuzz_63:

(1, 41319), (2, 41316), (5, 41277), (Start: 44 @40980 has 5 MA's), (Start: 51 @40971 has 139 MA's), (Start: 56 @40962 has 14 MA's), (92, 40869), (121, 40716), (134, 40647), (138, 40617),

Gene: Bxz2_62 Start: 40978, Stop: 40559, Start Num: 51

Candidate Starts for Bxz2_62:

(1, 41326), (2, 41323), (5, 41284), (Start: 44 @40987 has 5 MA's), (Start: 51 @40978 has 139 MA's), (Start: 56 @40969 has 14 MA's), (92, 40876), (121, 40723), (134, 40654), (149, 40576),

Gene: C3_61 Start: 40889, Stop: 40512, Start Num: 51

Candidate Starts for C3_61:

(19, 41003), (Start: 51 @40889 has 139 MA's), (Start: 56 @40880 has 14 MA's), (62, 40859), (66, 40841), (74, 40826), (121, 40637), (127, 40610), (130, 40586), (134, 40568),

Gene: Caelakin_60 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for Caelakin_60:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922),

Gene: Caitlin_72 Start: 41042, Stop: 40671, Start Num: 51

Candidate Starts for Caitlin_72:

(Start: 33 @41063 has 1 MA's), (Start: 51 @41042 has 139 MA's), (106, 40883), (116, 40850), (120, 40793), (121, 40790), (128, 40751), (134, 40721),

Gene: Calvinny_66 Start: 40820, Stop: 40410, Start Num: 56

Candidate Starts for Calvinny_66:

(Start: 44 @40838 has 5 MA's), (Start: 51 @40829 has 139 MA's), (Start: 56 @40820 has 14 MA's), (92, 40727), (121, 40574), (134, 40505),

Gene: Camperdownii_59 Start: 39917, Stop: 39537, Start Num: 16

Candidate Starts for Camperdownii_59:

(Start: 16 @39917 has 164 MA's), (106, 39758), (109, 39749), (121, 39665), (134, 39596), (135, 39590),

Gene: Caraxes_65 Start: 39205, Stop: 38822, Start Num: 51

Candidate Starts for Caraxes_65:

(19, 39319), (39, 39220), (Start: 51 @39205 has 139 MA's), (66, 39157), (93, 39103), (106, 39040), (121, 38947), (125, 38926), (134, 38878),

Gene: Caviar_63 Start: 40646, Stop: 40263, Start Num: 16

Candidate Starts for Caviar_63:

(Start: 15 @40655 has 8 MA's), (Start: 16 @40646 has 164 MA's), (92, 40550), (106, 40490), (121, 40397), (138, 40298), (139, 40295), (146, 40268),

Gene: Cece_217 Start: 133054, Stop: 133446, Start Num: 47

Candidate Starts for Cece_217:

(23, 133003), (Start: 47 @133054 has 1 MA's), (118, 133285), (121, 133303), (138, 133402), (139, 133405),

Gene: CentreCat_61 Start: 40246, Stop: 39866, Start Num: 16

Candidate Starts for CentreCat_61:

(Start: 16 @40246 has 164 MA's), (106, 40087), (109, 40078), (121, 39994), (134, 39925), (135, 39919),

Gene: Cerulean_62 Start: 40647, Stop: 40267, Start Num: 16

Candidate Starts for Cerulean_62:

(Start: 16 @40647 has 164 MA's), (106, 40488), (109, 40479), (121, 40395), (134, 40326),

Gene: ChampagnePapi_63 Start: 40646, Stop: 40266, Start Num: 16

Candidate Starts for ChampagnePapi_63:

(Start: 16 @40646 has 164 MA's), (106, 40487), (109, 40478), (121, 40394), (134, 40325),

Gene: Chaph_61 Start: 40254, Stop: 39874, Start Num: 16

Candidate Starts for Chaph_61:

(Start: 16 @40254 has 164 MA's), (106, 40095), (109, 40086), (121, 40002), (134, 39933), (135, 39927),

Gene: Che12_66 Start: 39418, Stop: 39041, Start Num: 51

Candidate Starts for Che12_66:

(39, 39433), (Start: 51 @39418 has 139 MA's), (Start: 56 @39409 has 14 MA's), (62, 39388), (89, 39322), (106, 39259), (121, 39166), (130, 39115), (134, 39097), (138, 39067),

Gene: Chiqui_59 Start: 40653, Stop: 40270, Start Num: 16

Candidate Starts for Chiqui_59:

(Start: 15 @40662 has 8 MA's), (Start: 16 @40653 has 164 MA's), (106, 40497), (118, 40422), (121, 40404), (125, 40383), (138, 40305),

Gene: CicholasNage_82 Start: 54121, Stop: 54534, Start Num: 51

Candidate Starts for CicholasNage_82:

(Start: 51 @54121 has 139 MA's), (67, 54172), (70, 54178), (121, 54412), (125, 54433), (127, 54439), (134, 54481),

Gene: Cici_59 Start: 40098, Stop: 39712, Start Num: 16

Candidate Starts for Cici_59:

(Start: 16 @40098 has 164 MA's), (106, 39939), (109, 39930), (121, 39846), (134, 39777),

Gene: Cindaradix_56 Start: 39716, Stop: 39336, Start Num: 16

Candidate Starts for Cindaradix_56:

(Start: 16 @39716 has 164 MA's), (65, 39680), (106, 39557), (107, 39554), (109, 39548), (121, 39464), (134, 39395),

Gene: Cintron_60 Start: 40223, Stop: 39843, Start Num: 51

Candidate Starts for Cintron_60:

(Start: 51 @40223 has 139 MA's), (Start: 56 @40214 has 14 MA's), (106, 40064), (109, 40055), (121, 39971), (134, 39902),

Gene: Circum_92 Start: 52997, Stop: 53359, Start Num: 53

Candidate Starts for Circum_92:

(Start: 53 @52997 has 9 MA's), (70, 53042), (77, 53057), (121, 53231), (142, 53348),

Gene: Citius_61 Start: 40264, Stop: 39884, Start Num: 16

Candidate Starts for Citius_61:

(Start: 16 @40264 has 164 MA's), (106, 40105), (109, 40096), (121, 40012), (134, 39943), (135, 39937),

Gene: Clammy_64 Start: 40669, Stop: 40286, Start Num: 16

Candidate Starts for Clammy_64:

(4, 40819), (Start: 15 @40678 has 8 MA's), (Start: 16 @40669 has 164 MA's), (106, 40513), (114, 40486), (118, 40438), (121, 40420), (138, 40321), (146, 40291),

Gene: Clarenza_60 Start: 40240, Stop: 39860, Start Num: 16

Candidate Starts for Clarenza_60:

(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919), (135, 39913),

Gene: ClownCar_66 Start: 40822, Stop: 40403, Start Num: 51

Candidate Starts for ClownCar_66:

(8, 41077), (Start: 44 @40831 has 5 MA's), (Start: 51 @40822 has 139 MA's), (Start: 56 @40813 has 14 MA's), (92, 40720), (121, 40567), (134, 40498),

Gene: Cocoaberry_61 Start: 40247, Stop: 39867, Start Num: 16

Candidate Starts for Cocoaberry_61:

(Start: 16 @40247 has 164 MA's), (106, 40088), (109, 40079), (121, 39995), (134, 39926),

Gene: Colbster_65 Start: 40947, Stop: 40528, Start Num: 51

Candidate Starts for Colbster_65:

(1, 41295), (2, 41292), (Start: 44 @40956 has 5 MA's), (Start: 51 @40947 has 139 MA's), (Start: 56 @40938 has 14 MA's), (92, 40845), (121, 40692), (134, 40623),

Gene: Commander_60 Start: 40242, Stop: 39862, Start Num: 16

Candidate Starts for Commander_60:

(Start: 16 @40242 has 164 MA's), (106, 40083), (109, 40074), (121, 39990), (134, 39921), (135, 39915),

Gene: Connomayer_61 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for Connomayer_61:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: Cosmo_135 Start: 64335, Stop: 64769, Start Num: 53

Candidate Starts for Cosmo_135:

(Start: 53 @64335 has 9 MA's), (57, 64344), (68, 64380), (69, 64383), (90, 64446), (100, 64494), (102, 64500), (105, 64524), (119, 64623), (121, 64638), (133, 64710),

Gene: Croquant_66 Start: 40942, Stop: 40523, Start Num: 51

Candidate Starts for Croquant_66:

(1, 41290), (2, 41287), (Start: 44 @40951 has 5 MA's), (Start: 51 @40942 has 139 MA's), (Start: 56 @40933 has 14 MA's), (92, 40840), (121, 40687), (134, 40618),

Gene: Cullens_67 Start: 40943, Stop: 40524, Start Num: 51

Candidate Starts for Cullens_67:

(1, 41291), (2, 41288), (Start: 44 @40952 has 5 MA's), (Start: 51 @40943 has 139 MA's), (Start: 56 @40934 has 14 MA's), (92, 40841), (121, 40688), (134, 40619),

Gene: D29_61 Start: 40913, Stop: 40536, Start Num: 51

Candidate Starts for D29_61:

(19, 41027), (39, 40928), (Start: 51 @40913 has 139 MA's), (67, 40862), (92, 40814), (93, 40811), (106, 40754), (121, 40661), (122, 40658), (134, 40592),

Gene: D32_65 Start: 40913, Stop: 40536, Start Num: 51

Candidate Starts for D32_65:

(19, 41027), (39, 40928), (Start: 51 @40913 has 139 MA's), (67, 40862), (92, 40814), (93, 40811), (106, 40754), (121, 40661), (122, 40658), (134, 40592),

Gene: DBQu4n_66 Start: 40894, Stop: 40517, Start Num: 51

Candidate Starts for DBQu4n_66:

(19, 41008), (39, 40909), (Start: 51 @40894 has 139 MA's), (67, 40843), (92, 40795), (93, 40792), (106, 40735), (121, 40642), (122, 40639), (134, 40573),

Gene: DaHudson_66 Start: 40936, Stop: 40517, Start Num: 51

Candidate Starts for DaHudson_66:

(1, 41284), (2, 41281), (Start: 44 @40945 has 5 MA's), (Start: 51 @40936 has 139 MA's), (Start: 56 @40927 has 14 MA's), (92, 40834), (121, 40681), (134, 40612),

Gene: Daishi_66 Start: 39812, Stop: 39393, Start Num: 51

Candidate Starts for Daishi_66:

(1, 40160), (2, 40157), (Start: 44 @39821 has 5 MA's), (Start: 51 @39812 has 139 MA's), (Start: 56 @39803 has 14 MA's), (92, 39710), (121, 39557), (134, 39488),

Gene: Danforth_74 Start: 41388, Stop: 41017, Start Num: 51

Candidate Starts for Danforth_74:

(Start: 33 @41409 has 1 MA's), (Start: 51 @41388 has 139 MA's), (106, 41229), (116, 41196), (120, 41139), (121, 41136), (128, 41097), (134, 41067),

Gene: Datway_59 Start: 40069, Stop: 39683, Start Num: 16

Candidate Starts for Datway_59:

(Start: 16 @40069 has 164 MA's), (106, 39910), (109, 39901), (121, 39817), (134, 39748),

Gene: Deano_59 Start: 40251, Stop: 39871, Start Num: 16

Candidate Starts for Deano_59:

(Start: 16 @40251 has 164 MA's), (106, 40092), (109, 40083), (121, 39999), (134, 39930), (135, 39924),

Gene: Dhanush_61 Start: 40246, Stop: 39866, Start Num: 16

Candidate Starts for Dhanush_61:

(Start: 16 @40246 has 164 MA's), (106, 40087), (109, 40078), (121, 39994), (134, 39925), (135, 39919),

Gene: Dieselweasel_68 Start: 40946, Stop: 40527, Start Num: 51

Candidate Starts for Dieselweasel_68:

(1, 41294), (2, 41291), (Start: 44 @40955 has 5 MA's), (Start: 51 @40946 has 139 MA's), (Start: 56 @40937 has 14 MA's), (92, 40844), (121, 40691), (134, 40622),

Gene: DirkDirk_82 Start: 53621, Stop: 54040, Start Num: 51

Candidate Starts for DirkDirk_82:

(Start: 51 @53621 has 139 MA's), (98, 53774), (121, 53912), (125, 53933), (127, 53939), (134, 53981),

Gene: DirtyDunning_60 Start: 40258, Stop: 39878, Start Num: 16

Candidate Starts for DirtyDunning_60:

(Start: 16 @40258 has 164 MA's), (106, 40099), (109, 40090), (121, 40006), (134, 39937),

Gene: Dixon_73 Start: 40908, Stop: 40537, Start Num: 51

Candidate Starts for Dixon_73:

(Start: 33 @40929 has 1 MA's), (Start: 51 @40908 has 139 MA's), (106, 40749), (116, 40716), (120, 40659), (121, 40656), (128, 40617), (134, 40587),

Gene: Dodo_246 Start: 138309, Stop: 138695, Start Num: 51

Candidate Starts for Dodo_246:

(Start: 51 @138309 has 139 MA's), (85, 138396), (110, 138480), (118, 138540), (121, 138558), (125, 138579), (143, 138678),

Gene: Douge_87 Start: 54998, Stop: 55414, Start Num: 45

Candidate Starts for Douge_87:

(38, 54986), (Start: 45 @54998 has 4 MA's), (67, 55052), (78, 55076), (83, 55097), (98, 55154), (102, 55175), (117, 55265), (121, 55292), (128, 55331), (134, 55361),

Gene: DroogsArmy_58 Start: 42717, Stop: 42268, Start Num: 51

Candidate Starts for DroogsArmy_58:

(Start: 51 @42717 has 139 MA's), (58, 42702), (74, 42654), (106, 42558), (112, 42537), (113, 42534), (121, 42465), (122, 42462), (128, 42426), (134, 42396), (145, 42339), (153, 42285),

Gene: DropBear_62 Start: 40580, Stop: 40188, Start Num: 15

Candidate Starts for DropBear_62:

(4, 40721), (Start: 15 @40580 has 8 MA's), (Start: 16 @40571 has 164 MA's), (106, 40415), (118, 40340), (121, 40322), (138, 40223),

Gene: Druantia_60 Start: 40246, Stop: 39866, Start Num: 16

Candidate Starts for Druantia_60:

(Start: 16 @40246 has 164 MA's), (106, 40087), (109, 40078), (121, 39994), (134, 39925), (135, 39919),

Gene: Duplo_66 Start: 40950, Stop: 40573, Start Num: 51

Candidate Starts for Duplo_66:

(19, 41064), (Start: 51 @40950 has 139 MA's), (67, 40899), (92, 40851), (93, 40848), (106, 40791), (121, 40698), (122, 40695), (134, 40629),

Gene: DyoEdafos_89 Start: 55386, Stop: 55802, Start Num: 45

Candidate Starts for DyoEdafos_89:

(Start: 45 @55386 has 4 MA's), (78, 55464), (79, 55473), (83, 55485), (102, 55563), (121, 55680), (134, 55749),

Gene: Eagle_60 Start: 40268, Stop: 39888, Start Num: 16

Candidate Starts for Eagle_60:

(Start: 15 @40277 has 8 MA's), (Start: 16 @40268 has 164 MA's), (106, 40109), (107, 40106), (109, 40100), (121, 40016), (134, 39947),

Gene: Eapen_61 Start: 40238, Stop: 39858, Start Num: 16

Candidate Starts for Eapen_61:

(Start: 16 @40238 has 164 MA's), (106, 40079), (109, 40070), (121, 39986), (134, 39917), (135, 39911),

Gene: Ebony_63 Start: 39413, Stop: 39027, Start Num: 42

Candidate Starts for Ebony_63:

(3, 39737), (7, 39689), (11, 39632), (18, 39527), (20, 39509), (21, 39482), (Start: 42 @39413 has 16 MA's), (Start: 51 @39401 has 139 MA's), (89, 39305), (106, 39242), (108, 39236), (109, 39233), (112, 39221), (118, 39167), (121, 39149), (134, 39080),

Gene: EhyElimayoE_114 Start: 75438, Stop: 74971, Start Num: 54

Candidate Starts for EhyElimayoE_114:

(28, 75474), (Start: 54 @75438 has 8 MA's), (63, 75411), (76, 75372), (84, 75336), (97, 75288), (120, 75144), (121, 75141), (138, 75033), (151, 74982),

Gene: Elver_242 Start: 108033, Stop: 108416, Start Num: 48

Candidate Starts for Elver_242:

(Start: 48 @108033 has 2 MA's), (73, 108093), (93, 108141), (121, 108294), (132, 108357),

Gene: EniyanLRS_127 Start: 63903, Stop: 64340, Start Num: 53

Candidate Starts for EniyanLRS_127:

(Start: 45 @63894 has 4 MA's), (Start: 53 @63903 has 9 MA's), (57, 63912), (68, 63948), (69, 63951), (90, 64014), (100, 64062), (102, 64068), (105, 64092), (119, 64191), (121, 64206), (133, 64278),

Gene: EpicPhail_68 Start: 40947, Stop: 40528, Start Num: 51

Candidate Starts for EpicPhail_68:

(1, 41295), (2, 41292), (Start: 44 @40956 has 5 MA's), (Start: 51 @40947 has 139 MA's), (Start: 56 @40938 has 14 MA's), (92, 40845), (121, 40692), (134, 40623),

Gene: Erasmago_237 Start: 132936, Stop: 133331, Start Num: 51
Candidate Starts for Erasmago_237:
(29, 132909), (34, 132918), (Start: 51 @132936 has 139 MA's), (103, 133083), (121, 133188), (138, 133287),

Gene: Eris_60 Start: 40258, Stop: 39878, Start Num: 16
Candidate Starts for Eris_60:
(Start: 16 @40258 has 164 MA's), (106, 40099), (109, 40090), (121, 40006), (134, 39937),

Gene: Eros_61 Start: 40245, Stop: 39865, Start Num: 16
Candidate Starts for Eros_61:
(Start: 16 @40245 has 164 MA's), (106, 40086), (109, 40077), (121, 39993), (134, 39924), (135, 39918),

Gene: Et2Brutus_62 Start: 39364, Stop: 38990, Start Num: 51
Candidate Starts for Et2Brutus_62:
(3, 39700), (7, 39652), (11, 39595), (20, 39472), (21, 39445), (Start: 42 @39376 has 16 MA's), (Start: 51 @39364 has 139 MA's), (89, 39268), (106, 39205), (109, 39196), (112, 39184), (118, 39130), (121, 39112), (134, 39043),

Gene: EtoileNova_62 Start: 40650, Stop: 40267, Start Num: 16
Candidate Starts for EtoileNova_62:
(Start: 15 @40659 has 8 MA's), (Start: 16 @40650 has 164 MA's), (92, 40554), (106, 40494), (121, 40401), (138, 40302), (139, 40299), (146, 40272),

Gene: Eurydice_62 Start: 40243, Stop: 39863, Start Num: 16
Candidate Starts for Eurydice_62:
(Start: 15 @40252 has 8 MA's), (Start: 16 @40243 has 164 MA's), (106, 40084), (107, 40081), (109, 40075), (121, 39991), (134, 39922),

Gene: Expelliarmus_71 Start: 41112, Stop: 40741, Start Num: 51
Candidate Starts for Expelliarmus_71:
(Start: 33 @41133 has 1 MA's), (Start: 51 @41112 has 139 MA's), (106, 40953), (116, 40920), (120, 40863), (121, 40860), (128, 40821), (134, 40791),

Gene: Farber_67 Start: 40942, Stop: 40514, Start Num: 44
Candidate Starts for Farber_67:
(1, 41281), (2, 41278), (5, 41239), (Start: 44 @40942 has 5 MA's), (Start: 51 @40933 has 139 MA's), (Start: 56 @40924 has 14 MA's), (92, 40831), (121, 40678), (134, 40609), (149, 40531),

Gene: Fernando_67 Start: 40943, Stop: 40524, Start Num: 51
Candidate Starts for Fernando_67:
(1, 41291), (2, 41288), (Start: 44 @40952 has 5 MA's), (Start: 51 @40943 has 139 MA's), (Start: 56 @40934 has 14 MA's), (92, 40841), (121, 40688), (134, 40619),

Gene: Fibonacci_63 Start: 39370, Stop: 38996, Start Num: 51
Candidate Starts for Fibonacci_63:
(3, 39706), (7, 39658), (11, 39601), (20, 39478), (21, 39451), (Start: 42 @39382 has 16 MA's), (Start: 51 @39370 has 139 MA's), (89, 39274), (106, 39211), (109, 39202), (112, 39190), (118, 39136), (121, 39118), (134, 39049),

Gene: Finemlucis_87 Start: 56813, Stop: 57238, Start Num: 40

Candidate Starts for Finemlucis_87:

(Start: 40 @56813 has 1 MA's), (Start: 45 @56822 has 4 MA's), (73, 56888), (78, 56900), (83, 56921), (98, 56978), (102, 56999), (117, 57089), (121, 57116), (134, 57185),

Gene: Flaverint_64 Start: 39828, Stop: 39454, Start Num: 51

Candidate Starts for Flaverint_64:

(3, 40164), (7, 40116), (11, 40059), (20, 39936), (Start: 42 @39840 has 16 MA's), (Start: 51 @39828 has 139 MA's), (106, 39669), (109, 39660), (118, 39594), (121, 39576), (134, 39507),

Gene: Florean_61 Start: 40242, Stop: 39862, Start Num: 16

Candidate Starts for Florean_61:

(Start: 16 @40242 has 164 MA's), (106, 40083), (109, 40074), (121, 39990), (134, 39921), (135, 39915),

Gene: Flux_61 Start: 40242, Stop: 39862, Start Num: 16

Candidate Starts for Flux_61:

(Start: 16 @40242 has 164 MA's), (106, 40083), (109, 40074), (121, 39990), (134, 39921), (135, 39915),

Gene: FlyCatcher_65 Start: 43633, Stop: 43184, Start Num: 51

Candidate Starts for FlyCatcher_65:

(14, 43837), (Start: 51 @43633 has 139 MA's), (74, 43570), (106, 43474), (109, 43465), (121, 43381), (128, 43342), (134, 43312), (153, 43201),

Gene: Forza_171 Start: 97184, Stop: 96825, Start Num: 59

Candidate Starts for Forza_171:

(Start: 59 @97184 has 5 MA's), (61, 97175), (64, 97172), (72, 97142), (80, 97121), (99, 97067), (121, 96950), (123, 96941), (125, 96929), (128, 96911),

Gene: Frankenweenie_123 Start: 80415, Stop: 79951, Start Num: 54

Candidate Starts for Frankenweenie_123:

(Start: 54 @80415 has 8 MA's), (65, 80382), (76, 80352), (91, 80295), (97, 80268), (121, 80121), (124, 80106), (127, 80094), (138, 80013), (151, 79962),

Gene: Fred313_62 Start: 40274, Stop: 39882, Start Num: 15

Candidate Starts for Fred313_62:

(4, 40415), (Start: 15 @40274 has 8 MA's), (Start: 16 @40265 has 164 MA's), (106, 40109), (118, 40034), (121, 40016), (138, 39917),

Gene: Funston_60 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for Funston_60:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922),

Gene: Gadost_61 Start: 40247, Stop: 39867, Start Num: 16

Candidate Starts for Gadost_61:

(Start: 16 @40247 has 164 MA's), (106, 40088), (109, 40079), (121, 39995), (134, 39926),

Gene: Gandionco_246 Start: 108817, Stop: 109200, Start Num: 48

Candidate Starts for Gandionco_246:

(Start: 48 @108817 has 2 MA's), (80, 108895), (93, 108925), (94, 108928), (121, 109078), (131, 109138),

Gene: Gattaca_71 Start: 40699, Stop: 41190, Start Num: 42

Candidate Starts for Gattaca_71:

(Start: 42 @40699 has 16 MA's), (95, 40846), (121, 41002), (122, 41005), (128, 41041), (134, 41071), (139, 41104),

Gene: Gemma_66 Start: 40825, Stop: 40406, Start Num: 51

Candidate Starts for Gemma_66:

(8, 41080), (Start: 44 @40834 has 5 MA's), (Start: 51 @40825 has 139 MA's), (Start: 56 @40816 has 14 MA's), (92, 40723), (121, 40570), (134, 40501),

Gene: Gilberta_64 Start: 39821, Stop: 39447, Start Num: 51

Candidate Starts for Gilberta_64:

(3, 40157), (7, 40109), (11, 40052), (20, 39929), (Start: 42 @39833 has 16 MA's), (Start: 51 @39821 has 139 MA's), (106, 39662), (109, 39653), (118, 39587), (121, 39569), (134, 39500),

Gene: GingkoMaracino_67 Start: 40820, Stop: 40410, Start Num: 56

Candidate Starts for GingkoMaracino_67:

(1, 41177), (2, 41174), (5, 41135), (6, 41126), (Start: 44 @40838 has 5 MA's), (Start: 51 @40829 has 139 MA's), (Start: 56 @40820 has 14 MA's), (92, 40727), (121, 40574), (134, 40505),

Gene: Giroux_66 Start: 40668, Stop: 40285, Start Num: 16

Candidate Starts for Giroux_66:

(4, 40818), (Start: 15 @40677 has 8 MA's), (Start: 16 @40668 has 164 MA's), (106, 40512), (114, 40485), (118, 40437), (121, 40419), (138, 40320), (146, 40290),

Gene: Gmala1_74 Start: 58542, Stop: 58096, Start Num: 43

Candidate Starts for Gmala1_74:

(43, 58542), (68, 58485), (74, 58473), (103, 58389), (112, 58356), (121, 58284), (128, 58245), (131, 58224), (137, 58200),

Gene: GoCrazy_87 Start: 51181, Stop: 51546, Start Num: 53

Candidate Starts for GoCrazy_87:

(Start: 53 @51181 has 9 MA's), (121, 51418), (125, 51439), (142, 51535),

Gene: GoongGoong_70 Start: 40498, Stop: 40989, Start Num: 42

Candidate Starts for GoongGoong_70:

(Start: 42 @40498 has 16 MA's), (95, 40645), (121, 40801), (122, 40804), (128, 40840), (134, 40870), (139, 40903),

Gene: GordDuk1_81 Start: 59275, Stop: 58886, Start Num: 68

Candidate Starts for GordDuk1_81:

(43, 59332), (68, 59275), (74, 59263), (103, 59179), (112, 59146), (121, 59074), (128, 59035), (131, 59014), (137, 58990),

Gene: GordTnk2_81 Start: 59262, Stop: 58816, Start Num: 43

Candidate Starts for GordTnk2_81:

(43, 59262), (68, 59205), (74, 59193), (103, 59109), (112, 59076), (121, 59004), (128, 58965), (131, 58944), (137, 58920),

Gene: Grayson_56 Start: 21137, Stop: 20748, Start Num: 35

Candidate Starts for Grayson_56:

(30, 21146), (Start: 35 @21137 has 1 MA's), (96, 20984), (121, 20867), (125, 20846),

Gene: Grif_67 Start: 41018, Stop: 40599, Start Num: 51

Candidate Starts for Grif_67:

(1, 41366), (2, 41363), (Start: 44 @41027 has 5 MA's), (Start: 51 @41018 has 139 MA's), (Start: 56 @41009 has 14 MA's), (92, 40916), (121, 40763), (134, 40694),

Gene: Groundhog_73 Start: 41318, Stop: 40947, Start Num: 51

Candidate Starts for Groundhog_73:

(Start: 33 @41339 has 1 MA's), (Start: 51 @41318 has 139 MA's), (106, 41159), (116, 41126), (120, 41069), (121, 41066), (128, 41027), (134, 40997),

Gene: Groupthink_68 Start: 40829, Stop: 40410, Start Num: 51

Candidate Starts for Groupthink_68:

(Start: 44 @40838 has 5 MA's), (Start: 51 @40829 has 139 MA's), (Start: 56 @40820 has 14 MA's), (92, 40727), (121, 40574), (134, 40505),

Gene: Grub_67 Start: 40935, Stop: 40516, Start Num: 51

Candidate Starts for Grub_67:

(1, 41283), (2, 41280), (Start: 44 @40944 has 5 MA's), (Start: 51 @40935 has 139 MA's), (Start: 56 @40926 has 14 MA's), (92, 40833), (121, 40680), (134, 40611),

Gene: Grum1_66 Start: 40943, Stop: 40524, Start Num: 51

Candidate Starts for Grum1_66:

(1, 41291), (2, 41288), (Start: 44 @40952 has 5 MA's), (Start: 51 @40943 has 139 MA's), (Start: 56 @40934 has 14 MA's), (92, 40841), (121, 40688), (134, 40619),

Gene: GtownJaz_67 Start: 40945, Stop: 40526, Start Num: 51

Candidate Starts for GtownJaz_67:

(1, 41293), (2, 41290), (Start: 44 @40954 has 5 MA's), (Start: 51 @40945 has 139 MA's), (Start: 56 @40936 has 14 MA's), (92, 40843), (121, 40690), (134, 40621),

Gene: Gwennie_64 Start: 40947, Stop: 40528, Start Num: 51

Candidate Starts for Gwennie_64:

(1, 41295), (2, 41292), (Start: 44 @40956 has 5 MA's), (Start: 51 @40947 has 139 MA's), (Start: 56 @40938 has 14 MA's), (92, 40845), (121, 40692), (134, 40623),

Gene: HINdeR_58 Start: 42418, Stop: 41969, Start Num: 51

Candidate Starts for HINdeR_58:

(Start: 51 @42418 has 139 MA's), (74, 42355), (106, 42259), (109, 42250), (121, 42166), (134, 42097), (153, 41986),

Gene: HamSlice_58 Start: 40241, Stop: 39861, Start Num: 16

Candidate Starts for HamSlice_58:

(Start: 16 @40241 has 164 MA's), (106, 40082), (107, 40079), (109, 40073), (121, 39989), (134, 39920),

Gene: Hankly_92 Start: 52366, Stop: 52731, Start Num: 53

Candidate Starts for Hankly_92:

(Start: 53 @52366 has 9 MA's), (121, 52603), (125, 52624), (142, 52720),

Gene: Happiness_60 Start: 40229, Stop: 39849, Start Num: 16

Candidate Starts for Happiness_60:

(Start: 16 @40229 has 164 MA's), (106, 40070), (109, 40061), (121, 39977), (134, 39908),

Gene: HashRod_68 Start: 40971, Stop: 40552, Start Num: 51

Candidate Starts for HashRod_68:

(1, 41319), (2, 41316), (5, 41277), (Start: 44 @40980 has 5 MA's), (Start: 51 @40971 has 139 MA's), (Start: 56 @40962 has 14 MA's), (92, 40869), (121, 40716), (134, 40647), (138, 40617),

Gene: HaveUMetTed_68 Start: 40814, Stop: 40395, Start Num: 51

Candidate Starts for HaveUMetTed_68:

(8, 41069), (Start: 44 @40823 has 5 MA's), (Start: 51 @40814 has 139 MA's), (Start: 56 @40805 has 14 MA's), (92, 40712), (121, 40559), (134, 40490),

Gene: Heathen_64 Start: 40360, Stop: 39977, Start Num: 16

Candidate Starts for Heathen_64:

(4, 40510), (Start: 15 @40369 has 8 MA's), (Start: 16 @40360 has 164 MA's), (106, 40204), (118, 40129), (121, 40111), (138, 40012),

Gene: HelDan_63 Start: 40585, Stop: 40193, Start Num: 15

Candidate Starts for HelDan_63:

(4, 40726), (Start: 15 @40585 has 8 MA's), (Start: 16 @40576 has 164 MA's), (106, 40420), (118, 40345), (121, 40327), (138, 40228),

Gene: Heliosoles_66 Start: 40832, Stop: 40413, Start Num: 51

Candidate Starts for Heliosoles_66:

(Start: 44 @40841 has 5 MA's), (Start: 51 @40832 has 139 MA's), (Start: 56 @40823 has 14 MA's), (92, 40730), (121, 40577), (134, 40508),

Gene: Hercules11_67 Start: 40952, Stop: 40533, Start Num: 51

Candidate Starts for Hercules11_67:

(1, 41300), (2, 41297), (Start: 44 @40961 has 5 MA's), (Start: 51 @40952 has 139 MA's), (Start: 56 @40943 has 14 MA's), (92, 40850), (121, 40697), (134, 40628),

Gene: Holli_60 Start: 40033, Stop: 39653, Start Num: 16

Candidate Starts for Holli_60:

(Start: 16 @40033 has 164 MA's), (106, 39874), (109, 39865), (121, 39781), (134, 39712), (135, 39706),

Gene: Hookmount_63 Start: 40647, Stop: 40264, Start Num: 16

Candidate Starts for Hookmount_63:

(Start: 15 @40656 has 8 MA's), (Start: 16 @40647 has 164 MA's), (92, 40551), (106, 40491), (121, 40398), (138, 40299), (139, 40296), (146, 40269),

Gene: Houdini22_60 Start: 40247, Stop: 39867, Start Num: 16

Candidate Starts for Houdini22_60:

(Start: 16 @40247 has 164 MA's), (106, 40088), (109, 40079), (121, 39995), (134, 39926),

Gene: Hutc2_62 Start: 39382, Stop: 38996, Start Num: 42

Candidate Starts for Hutc2_62:

(3, 39706), (7, 39658), (11, 39601), (20, 39478), (21, 39451), (Start: 42 @39382 has 16 MA's), (Start: 51 @39370 has 139 MA's), (89, 39274), (106, 39211), (109, 39202), (112, 39190), (118, 39136), (121, 39118), (134, 39049),

Gene: Huxley_59 Start: 40307, Stop: 39927, Start Num: 16

Candidate Starts for Huxley_59:

(Start: 16 @40307 has 164 MA's), (106, 40148), (109, 40139), (121, 40055), (134, 39986),

Gene: ICleared_60 Start: 40275, Stop: 39895, Start Num: 16
Candidate Starts for ICleared_60:
(Start: 16 @40275 has 164 MA's), (106, 40116), (109, 40107), (121, 40023), (134, 39954),

Gene: Iceman_61 Start: 40532, Stop: 40152, Start Num: 16
Candidate Starts for Iceman_61:
(Start: 16 @40532 has 164 MA's), (106, 40373), (109, 40364), (121, 40280), (134, 40211), (135, 40205),

Gene: Idleandcovert_64 Start: 40669, Stop: 40286, Start Num: 16
Candidate Starts for Idleandcovert_64:
(4, 40819), (Start: 15 @40678 has 8 MA's), (Start: 16 @40669 has 164 MA's), (106, 40513), (114, 40486), (118, 40438), (121, 40420), (138, 40321), (146, 40291),

Gene: Insomnia_64 Start: 39893, Stop: 39507, Start Num: 42
Candidate Starts for Insomnia_64:
(3, 40217), (7, 40169), (11, 40112), (20, 39989), (21, 39962), (Start: 42 @39893 has 16 MA's), (Start: 51 @39881 has 139 MA's), (89, 39785), (106, 39722), (109, 39713), (112, 39701), (118, 39647), (121, 39629), (134, 39560),

Gene: Iracema64_62 Start: 40510, Stop: 40130, Start Num: 16
Candidate Starts for Iracema64_62:
(Start: 16 @40510 has 164 MA's), (106, 40351), (109, 40342), (121, 40258), (134, 40189),

Gene: Isca_62 Start: 40131, Stop: 39739, Start Num: 15
Candidate Starts for Isca_62:
(Start: 15 @40131 has 8 MA's), (Start: 16 @40122 has 164 MA's), (106, 39966), (118, 39891), (121, 39873), (138, 39774),

Gene: JF2_62 Start: 38826, Stop: 38434, Start Num: 15
Candidate Starts for JF2_62:
(Start: 15 @38826 has 8 MA's), (Start: 16 @38817 has 164 MA's), (106, 38661), (118, 38586), (121, 38568), (134, 38499), (138, 38469), (142, 38451),

Gene: JF4_62 Start: 38817, Stop: 38434, Start Num: 16
Candidate Starts for JF4_62:
(Start: 15 @38826 has 8 MA's), (Start: 16 @38817 has 164 MA's), (106, 38661), (118, 38586), (121, 38568), (134, 38499), (138, 38469), (142, 38451),

Gene: JHC117_65 Start: 40942, Stop: 40523, Start Num: 51
Candidate Starts for JHC117_65:
(1, 41290), (2, 41287), (Start: 44 @40951 has 5 MA's), (Start: 51 @40942 has 139 MA's), (Start: 56 @40933 has 14 MA's), (92, 40840), (121, 40687), (134, 40618),

Gene: Jabith_64 Start: 39882, Stop: 39508, Start Num: 51
Candidate Starts for Jabith_64:
(3, 40218), (7, 40170), (11, 40113), (20, 39990), (21, 39963), (Start: 42 @39894 has 16 MA's), (Start: 51 @39882 has 139 MA's), (89, 39786), (106, 39723), (109, 39714), (112, 39702), (118, 39648), (121, 39630), (134, 39561),

Gene: Jaykayelowell_58 Start: 40236, Stop: 39856, Start Num: 16
Candidate Starts for Jaykayelowell_58:

(Start: 16 @40236 has 164 MA's), (106, 40077), (109, 40068), (121, 39984), (134, 39915), (135, 39909),

Gene: JeNeSaisPas_238 Start: 108595, Stop: 108954, Start Num: 48

Candidate Starts for JeNeSaisPas_238:

(Start: 48 @108595 has 2 MA's), (80, 108673), (92, 108700), (93, 108703), (121, 108832), (131, 108892),

Gene: JenCasNa_68 Start: 40934, Stop: 40524, Start Num: 56

Candidate Starts for JenCasNa_68:

(1, 41291), (2, 41288), (Start: 44 @40952 has 5 MA's), (Start: 51 @40943 has 139 MA's), (Start: 56 @40934 has 14 MA's), (92, 40841), (121, 40688), (134, 40619),

Gene: JeppNRM_68 Start: 40830, Stop: 40411, Start Num: 51

Candidate Starts for JeppNRM_68:

(8, 41085), (Start: 44 @40839 has 5 MA's), (Start: 51 @40830 has 139 MA's), (Start: 56 @40821 has 14 MA's), (92, 40728), (121, 40575), (134, 40506),

Gene: JetBlade_61 Start: 40237, Stop: 39857, Start Num: 16

Candidate Starts for JetBlade_61:

(Start: 16 @40237 has 164 MA's), (106, 40078), (109, 40069), (121, 39985), (134, 39916),

Gene: Jobu08_65 Start: 40784, Stop: 40356, Start Num: 44

Candidate Starts for Jobu08_65:

(1, 41123), (2, 41120), (5, 41081), (Start: 44 @40784 has 5 MA's), (Start: 51 @40775 has 139 MA's), (Start: 56 @40766 has 14 MA's), (92, 40673), (121, 40520), (134, 40451),

Gene: JoeDirt_86 Start: 55023, Stop: 55436, Start Num: 51

Candidate Starts for JoeDirt_86:

(Start: 51 @55023 has 139 MA's), (67, 55074), (70, 55080), (121, 55314), (125, 55335), (127, 55341), (134, 55383),

Gene: JoongJeon_60 Start: 40240, Stop: 39860, Start Num: 16

Candidate Starts for JoongJeon_60:

(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919),

Gene: Joselito_64 Start: 39830, Stop: 39456, Start Num: 51

Candidate Starts for Joselito_64:

(3, 40166), (7, 40118), (11, 40061), (20, 39938), (21, 39911), (Start: 42 @39842 has 16 MA's), (Start: 51 @39830 has 139 MA's), (89, 39734), (106, 39671), (109, 39662), (112, 39650), (118, 39596), (121, 39578), (134, 39509),

Gene: Jsquared_66 Start: 39964, Stop: 39587, Start Num: 51

Candidate Starts for Jsquared_66:

(39, 39979), (Start: 51 @39964 has 139 MA's), (57, 39952), (62, 39934), (74, 39901), (106, 39805), (121, 39712), (129, 39667), (134, 39643),

Gene: JustBecause_112 Start: 74626, Stop: 74162, Start Num: 54

Candidate Starts for JustBecause_112:

(Start: 54 @74626 has 8 MA's), (65, 74593), (71, 74572), (76, 74563), (87, 74521), (91, 74506), (97, 74479), (121, 74332), (124, 74317), (127, 74305), (138, 74224), (151, 74173),

Gene: KADY_66 Start: 40971, Stop: 40552, Start Num: 51

Candidate Starts for KADY_66:

(1, 41319), (2, 41316), (5, 41277), (Start: 44 @40980 has 5 MA's), (Start: 51 @40971 has 139 MA's), (Start: 56 @40962 has 14 MA's), (92, 40869), (121, 40716), (134, 40647), (138, 40617),

Gene: KFPoly_60 Start: 40237, Stop: 39857, Start Num: 16

Candidate Starts for KFPoly_60:

(Start: 16 @40237 has 164 MA's), (106, 40078), (109, 40069), (121, 39985), (134, 39916),

Gene: Kachowdy_62 Start: 40612, Stop: 40229, Start Num: 16

Candidate Starts for Kachowdy_62:

(4, 40762), (Start: 15 @40621 has 8 MA's), (Start: 16 @40612 has 164 MA's), (106, 40456), (118, 40381), (121, 40363), (138, 40264),

Gene: Kalb97_68 Start: 40828, Stop: 40409, Start Num: 51

Candidate Starts for Kalb97_68:

(8, 41083), (Start: 44 @40837 has 5 MA's), (Start: 51 @40828 has 139 MA's), (Start: 56 @40819 has 14 MA's), (92, 40726), (121, 40573), (134, 40504),

Gene: Kalnoky_68 Start: 40826, Stop: 40407, Start Num: 51

Candidate Starts for Kalnoky_68:

(Start: 44 @40835 has 5 MA's), (Start: 51 @40826 has 139 MA's), (Start: 56 @40817 has 14 MA's), (92, 40724), (121, 40571), (134, 40502),

Gene: Kampe_66 Start: 55077, Stop: 54682, Start Num: 50

Candidate Starts for Kampe_66:

(Start: 50 @55077 has 3 MA's), (58, 55062), (118, 54852), (121, 54834), (123, 54825), (134, 54765), (147, 54699), (150, 54690),

Gene: Kampy_60 Start: 40245, Stop: 39865, Start Num: 16

Candidate Starts for Kampy_60:

(Start: 16 @40245 has 164 MA's), (106, 40086), (109, 40077), (121, 39993), (134, 39924), (135, 39918),

Gene: Katalie136_59 Start: 40083, Stop: 39697, Start Num: 16

Candidate Starts for Katalie136_59:

(Start: 16 @40083 has 164 MA's), (106, 39924), (109, 39915), (121, 39831), (134, 39762),

Gene: KeaneyLin_89 Start: 52219, Stop: 52584, Start Num: 53

Candidate Starts for KeaneyLin_89:

(Start: 53 @52219 has 9 MA's), (121, 52456), (125, 52477), (142, 52573),

Gene: KekoraPapaka_59 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for KekoraPapaka_59:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: Kela_113 Start: 74506, Stop: 74042, Start Num: 54

Candidate Starts for Kela_113:

(Start: 54 @74506 has 8 MA's), (65, 74473), (71, 74452), (76, 74443), (87, 74401), (91, 74386), (97, 74359), (121, 74212), (124, 74197), (127, 74185), (138, 74104), (151, 74053),

Gene: Kerberos_66 Start: 40912, Stop: 40535, Start Num: 51

Candidate Starts for Kerberos_66:

(19, 41026), (Start: 51 @40912 has 139 MA's), (67, 40861), (92, 40813), (93, 40810), (106, 40753), (121, 40660), (122, 40657), (134, 40591),

Gene: Kimba_62 Start: 39414, Stop: 39028, Start Num: 42

Candidate Starts for Kimba_62:

(3, 39738), (7, 39690), (11, 39633), (20, 39510), (21, 39483), (Start: 42 @39414 has 16 MA's), (Start: 51 @39402 has 139 MA's), (89, 39306), (106, 39243), (109, 39234), (112, 39222), (118, 39168), (121, 39150), (134, 39081),

Gene: Kimona_58 Start: 38659, Stop: 38276, Start Num: 51

Candidate Starts for Kimona_58:

(18, 38791), (Start: 51 @38659 has 139 MA's), (74, 38596), (93, 38557), (106, 38500), (109, 38491), (118, 38425), (121, 38407), (125, 38386), (134, 38338),

Gene: Kingmustik0402_61 Start: 40232, Stop: 39852, Start Num: 16

Candidate Starts for Kingmustik0402_61:

(Start: 16 @40232 has 164 MA's), (106, 40073), (109, 40064), (121, 39980), (134, 39911),

Gene: Kinmap_64 Start: 39098, Stop: 38730, Start Num: 56

Candidate Starts for Kinmap_64:

(Start: 51 @39107 has 139 MA's), (Start: 56 @39098 has 14 MA's), (81, 39026), (121, 38858), (122, 38855), (134, 38789),

Gene: Koan_58 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for Koan_58:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: Koduck_65 Start: 39809, Stop: 39432, Start Num: 51

Candidate Starts for Koduck_65:

(39, 39824), (Start: 51 @39809 has 139 MA's), (Start: 56 @39800 has 14 MA's), (57, 39797), (74, 39746), (106, 39650), (112, 39629), (121, 39557), (127, 39530), (134, 39488),

Gene: Koreni_60 Start: 39924, Stop: 39544, Start Num: 16

Candidate Starts for Koreni_60:

(Start: 16 @39924 has 164 MA's), (106, 39765), (109, 39756), (121, 39672), (134, 39603), (135, 39597),

Gene: Kradal_113 Start: 75438, Stop: 74971, Start Num: 54

Candidate Starts for Kradal_113:

(28, 75474), (Start: 54 @75438 has 8 MA's), (63, 75411), (76, 75372), (84, 75336), (97, 75288), (120, 75144), (121, 75141), (138, 75033), (151, 74982),

Gene: Kratark_60 Start: 40241, Stop: 39861, Start Num: 16

Candidate Starts for Kratark_60:

(Start: 16 @40241 has 164 MA's), (106, 40082), (109, 40073), (121, 39989), (134, 39920),

Gene: Kremtemulon_60 Start: 40191, Stop: 39811, Start Num: 51

Candidate Starts for Kremtemulon_60:

(9, 40425), (17, 40326), (Start: 51 @40191 has 139 MA's), (Start: 56 @40182 has 14 MA's), (106, 40032), (109, 40023), (121, 39939), (134, 39870),

Gene: Kumao_84 Start: 54374, Stop: 54781, Start Num: 56

Candidate Starts for Kumao_84:

(32, 54347), (36, 54353), (Start: 56 @54374 has 14 MA's), (112, 54545), (118, 54599), (121, 54617), (122, 54620), (134, 54686), (139, 54719),

Gene: Kureo_242 Start: 106818, Stop: 107177, Start Num: 48

Candidate Starts for Kureo_242:

(Start: 48 @106818 has 2 MA's), (80, 106896), (92, 106923), (93, 106926), (121, 107055), (135, 107130),

Gene: Kyee_61 Start: 40241, Stop: 39861, Start Num: 16

Candidate Starts for Kyee_61:

(Start: 16 @40241 has 164 MA's), (106, 40082), (109, 40073), (121, 39989), (134, 39920),

Gene: L5_61 Start: 39896, Stop: 39519, Start Num: 51

Candidate Starts for L5_61:

(19, 40010), (39, 39911), (Start: 51 @39896 has 139 MA's), (74, 39833), (106, 39737), (112, 39716), (121, 39644), (134, 39575),

Gene: LBerry_68 Start: 40947, Stop: 40528, Start Num: 51

Candidate Starts for LBerry_68:

(1, 41295), (2, 41292), (Start: 44 @40956 has 5 MA's), (Start: 51 @40947 has 139 MA's), (Start: 56 @40938 has 14 MA's), (92, 40845), (121, 40692), (134, 40623),

Gene: LHTSCC_63 Start: 40646, Stop: 40266, Start Num: 16

Candidate Starts for LHTSCC_63:

(Start: 16 @40646 has 164 MA's), (106, 40487), (109, 40478), (121, 40394), (134, 40325),

Gene: Lambert1_63 Start: 40646, Stop: 40263, Start Num: 16

Candidate Starts for Lambert1_63:

(Start: 15 @40655 has 8 MA's), (Start: 16 @40646 has 164 MA's), (92, 40550), (106, 40490), (121, 40397), (138, 40298), (139, 40295), (146, 40268),

Gene: LappelDuVide_61 Start: 40242, Stop: 39862, Start Num: 16

Candidate Starts for LappelDuVide_61:

(Start: 16 @40242 has 164 MA's), (106, 40083), (109, 40074), (121, 39990), (134, 39921), (135, 39915),

Gene: LarryKay_67 Start: 40973, Stop: 40554, Start Num: 51

Candidate Starts for LarryKay_67:

(1, 41321), (2, 41318), (Start: 44 @40982 has 5 MA's), (Start: 51 @40973 has 139 MA's), (Start: 56 @40964 has 14 MA's), (92, 40871), (121, 40718), (134, 40649), (149, 40571),

Gene: LeBron_84 Start: 53694, Stop: 54107, Start Num: 51

Candidate Starts for LeBron_84:

(Start: 51 @53694 has 139 MA's), (67, 53745), (70, 53751), (121, 53985), (125, 54006), (127, 54012), (134, 54054),

Gene: Lemur_61 Start: 40240, Stop: 39860, Start Num: 16

Candidate Starts for Lemur_61:

(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919), (135, 39913),

Gene: LeoAvram_60 Start: 40246, Stop: 39866, Start Num: 16

Candidate Starts for LeoAvram_60:

(Start: 15 @40255 has 8 MA's), (Start: 16 @40246 has 164 MA's), (106, 40087), (107, 40084), (109, 40078), (121, 39994), (134, 39925),

Gene: Lilbit_71 Start: 41279, Stop: 41770, Start Num: 42

Candidate Starts for Lilbit_71:

(Start: 42 @41279 has 16 MA's), (95, 41426), (121, 41582), (122, 41585), (128, 41621), (134, 41651), (139, 41684),

Gene: Lilit_66 Start: 40936, Stop: 40517, Start Num: 51

Candidate Starts for Lilit_66:

(1, 41284), (2, 41281), (Start: 44 @40945 has 5 MA's), (Start: 51 @40936 has 139 MA's), (Start: 56 @40927 has 14 MA's), (92, 40834), (121, 40681), (134, 40612),

Gene: LittleB_61 Start: 40244, Stop: 39864, Start Num: 16

Candidate Starts for LittleB_61:

(Start: 16 @40244 has 164 MA's), (106, 40085), (109, 40076), (121, 39992), (134, 39923), (135, 39917),

Gene: LittleGuy_61 Start: 40139, Stop: 39759, Start Num: 16

Candidate Starts for LittleGuy_61:

(Start: 16 @40139 has 164 MA's), (106, 39980), (109, 39971), (121, 39887), (134, 39818), (135, 39812),

Gene: LittleLaf_73 Start: 41008, Stop: 41499, Start Num: 42

Candidate Starts for LittleLaf_73:

(Start: 42 @41008 has 16 MA's), (95, 41155), (121, 41311), (122, 41314), (128, 41350), (134, 41380), (139, 41413),

Gene: LochMonster_62 Start: 40482, Stop: 40102, Start Num: 16

Candidate Starts for LochMonster_62:

(Start: 16 @40482 has 164 MA's), (106, 40323), (109, 40314), (121, 40230), (134, 40161), (135, 40155),

Gene: Lorenzo_61 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for Lorenzo_61:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: Louie6_66 Start: 40972, Stop: 40553, Start Num: 51

Candidate Starts for Louie6_66:

(Start: 44 @40981 has 5 MA's), (Start: 51 @40972 has 139 MA's), (Start: 56 @40963 has 14 MA's), (92, 40870), (121, 40717), (134, 40648), (138, 40618),

Gene: Lova_66 Start: 40935, Stop: 40516, Start Num: 51

Candidate Starts for Lova_66:

(1, 41283), (2, 41280), (Start: 44 @40944 has 5 MA's), (Start: 51 @40935 has 139 MA's), (Start: 56 @40926 has 14 MA's), (92, 40833), (121, 40680), (134, 40611),

Gene: Lucivia_64 Start: 39879, Stop: 39505, Start Num: 51

Candidate Starts for Lucivia_64:

(3, 40215), (7, 40167), (11, 40110), (20, 39987), (Start: 42 @39891 has 16 MA's), (Start: 51 @39879 has 139 MA's), (106, 39720), (109, 39711), (118, 39645), (121, 39627), (134, 39558),

Gene: LugYA_70 Start: 40944, Stop: 40525, Start Num: 51

Candidate Starts for LugYA_70:

(1, 41292), (2, 41289), (Start: 44 @40953 has 5 MA's), (Start: 51 @40944 has 139 MA's), (Start: 56 @40935 has 14 MA's), (92, 40842), (121, 40689), (134, 40620),

Gene: Lunsford_62 Start: 40237, Stop: 39857, Start Num: 16

Candidate Starts for Lunsford_62:

(Start: 16 @40237 has 164 MA's), (106, 40078), (107, 40075), (109, 40069), (121, 39985), (134, 39916),

Gene: MA5_64 Start: 40026, Stop: 39643, Start Num: 16

Candidate Starts for MA5_64:

(Start: 15 @40035 has 8 MA's), (Start: 16 @40026 has 164 MA's), (106, 39870), (118, 39795), (121, 39777), (138, 39678),

Gene: MK4_64 Start: 40101, Stop: 39718, Start Num: 16

Candidate Starts for MK4_64:

(Start: 15 @40110 has 8 MA's), (Start: 16 @40101 has 164 MA's), (106, 39945), (118, 39870), (121, 39852), (134, 39783), (138, 39753), (142, 39735),

Gene: MaCh_63 Start: 39809, Stop: 39435, Start Num: 51

Candidate Starts for MaCh_63:

(3, 40145), (7, 40097), (11, 40040), (20, 39917), (Start: 42 @39821 has 16 MA's), (Start: 51 @39809 has 139 MA's), (89, 39713), (106, 39650), (109, 39641), (112, 39629), (118, 39575), (121, 39557), (134, 39488),

Gene: Mabel_63 Start: 39826, Stop: 39452, Start Num: 51

Candidate Starts for Mabel_63:

(3, 40162), (7, 40114), (11, 40057), (20, 39934), (Start: 42 @39838 has 16 MA's), (Start: 51 @39826 has 139 MA's), (106, 39667), (109, 39658), (118, 39592), (121, 39574), (134, 39505),

Gene: MadMarie_67 Start: 40945, Stop: 40526, Start Num: 51

Candidate Starts for MadMarie_67:

(1, 41293), (2, 41290), (5, 41251), (Start: 44 @40954 has 5 MA's), (Start: 51 @40945 has 139 MA's), (Start: 56 @40936 has 14 MA's), (92, 40843), (121, 40690), (134, 40621),

Gene: Mainiac_67 Start: 40937, Stop: 40518, Start Num: 51

Candidate Starts for Mainiac_67:

(1, 41285), (2, 41282), (Start: 44 @40946 has 5 MA's), (Start: 51 @40937 has 139 MA's), (Start: 56 @40928 has 14 MA's), (92, 40835), (121, 40682), (134, 40613),

Gene: MajorMajor_64 Start: 39806, Stop: 39429, Start Num: 51

Candidate Starts for MajorMajor_64:

(19, 39920), (39, 39821), (Start: 51 @39806 has 139 MA's), (57, 39794), (74, 39743), (106, 39647), (121, 39554), (134, 39485),

Gene: Malinsilva_69 Start: 40926, Stop: 40516, Start Num: 56

Candidate Starts for Malinsilva_69:

(1, 41283), (2, 41280), (Start: 44 @40944 has 5 MA's), (Start: 51 @40935 has 139 MA's), (Start: 56 @40926 has 14 MA's), (92, 40833), (121, 40680), (134, 40611),

Gene: Manu_67 Start: 40829, Stop: 40410, Start Num: 51

Candidate Starts for Manu_67:

(8, 41084), (Start: 44 @40838 has 5 MA's), (Start: 51 @40829 has 139 MA's), (Start: 56 @40820 has 14 MA's), (92, 40727), (121, 40574), (134, 40505),

Gene: MarQuardt_67 Start: 40936, Stop: 40526, Start Num: 56

Candidate Starts for MarQuardt_67:

(1, 41293), (2, 41290), (Start: 44 @40954 has 5 MA's), (Start: 51 @40945 has 139 MA's), (Start: 56 @40936 has 14 MA's), (92, 40843), (121, 40690), (134, 40621),

Gene: Marchesa_62 Start: 40562, Stop: 40179, Start Num: 16

Candidate Starts for Marchesa_62:

(4, 40712), (Start: 15 @40571 has 8 MA's), (Start: 16 @40562 has 164 MA's), (106, 40406), (118, 40331), (121, 40313), (138, 40214),

Gene: Mareelih_168 Start: 96702, Stop: 96343, Start Num: 59

Candidate Starts for Mareelih_168:

(Start: 59 @96702 has 5 MA's), (61, 96693), (64, 96690), (72, 96660), (80, 96639), (99, 96585), (121, 96468), (123, 96459), (125, 96447), (128, 96429),

Gene: Margo_63 Start: 40672, Stop: 40289, Start Num: 16

Candidate Starts for Margo_63:

(Start: 15 @40681 has 8 MA's), (Start: 16 @40672 has 164 MA's), (92, 40576), (106, 40516), (121, 40423), (138, 40324), (139, 40321), (146, 40294),

Gene: Marianna39_246 Start: 109420, Stop: 109803, Start Num: 48

Candidate Starts for Marianna39_246:

(Start: 48 @109420 has 2 MA's), (80, 109498), (93, 109528), (94, 109531), (121, 109681), (131, 109741),

Gene: Marie_65 Start: 40943, Stop: 40524, Start Num: 51

Candidate Starts for Marie_65:

(1, 41291), (2, 41288), (Start: 44 @40952 has 5 MA's), (Start: 51 @40943 has 139 MA's), (Start: 56 @40934 has 14 MA's), (92, 40841), (121, 40688), (134, 40619),

Gene: Marius_68 Start: 40826, Stop: 40407, Start Num: 51

Candidate Starts for Marius_68:

(Start: 44 @40835 has 5 MA's), (Start: 51 @40826 has 139 MA's), (Start: 56 @40817 has 14 MA's), (92, 40724), (121, 40571), (134, 40502),

Gene: Marvin_69 Start: 40817, Stop: 41308, Start Num: 42

Candidate Starts for Marvin_69:

(Start: 42 @40817 has 16 MA's), (95, 40964), (121, 41120), (122, 41123), (128, 41159), (134, 41189), (139, 41222),

Gene: MaryV_120 Start: 62395, Stop: 62829, Start Num: 53

Candidate Starts for MaryV_120:

(Start: 53 @62395 has 9 MA's), (57, 62404), (68, 62440), (69, 62443), (90, 62506), (100, 62554), (102, 62560), (105, 62584), (119, 62683), (121, 62698), (133, 62770),

Gene: Maverick_60 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for Maverick_60:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922),

Gene: Maxo_62 Start: 40245, Stop: 39865, Start Num: 16
Candidate Starts for Maxo_62:
(Start: 16 @40245 has 164 MA's), (106, 40086), (109, 40077), (121, 39993), (134, 39924), (135, 39918),

Gene: Mayonnaise_59 Start: 40243, Stop: 39863, Start Num: 16
Candidate Starts for Mayonnaise_59:
(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922),

Gene: Mazhar510_61 Start: 40244, Stop: 39864, Start Num: 16
Candidate Starts for Mazhar510_61:
(Start: 16 @40244 has 164 MA's), (106, 40085), (109, 40076), (121, 39992), (134, 39923),

Gene: Medusa_61 Start: 40257, Stop: 39877, Start Num: 16
Candidate Starts for Medusa_61:
(Start: 16 @40257 has 164 MA's), (106, 40098), (109, 40089), (121, 40005), (134, 39936), (135, 39930),

Gene: MeeZee_60 Start: 40240, Stop: 39860, Start Num: 16
Candidate Starts for MeeZee_60:
(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919), (135, 39913),

Gene: Melvin_63 Start: 40238, Stop: 39858, Start Num: 16
Candidate Starts for Melvin_63:
(Start: 16 @40238 has 164 MA's), (106, 40079), (109, 40070), (121, 39986), (134, 39917), (135, 39911),

Gene: Methuselah_62 Start: 40967, Stop: 40548, Start Num: 51
Candidate Starts for Methuselah_62:
(1, 41315), (2, 41312), (5, 41273), (Start: 44 @40976 has 5 MA's), (Start: 51 @40967 has 139 MA's), (Start: 56 @40958 has 14 MA's), (92, 40865), (121, 40712), (134, 40643), (149, 40565),

Gene: Microwolf_65 Start: 40959, Stop: 40540, Start Num: 51
Candidate Starts for Microwolf_65:
(1, 41307), (2, 41304), (Start: 44 @40968 has 5 MA's), (Start: 51 @40959 has 139 MA's), (Start: 56 @40950 has 14 MA's), (92, 40857), (121, 40704), (134, 40635),

Gene: Millski_60 Start: 40244, Stop: 39864, Start Num: 16
Candidate Starts for Millski_60:
(Start: 16 @40244 has 164 MA's), (106, 40085), (109, 40076), (121, 39992), (134, 39923), (135, 39917),

Gene: Miramae_58 Start: 39532, Stop: 39146, Start Num: 16
Candidate Starts for Miramae_58:
(Start: 16 @39532 has 164 MA's), (106, 39373), (109, 39364), (121, 39280), (134, 39211),

Gene: Misomonster_68 Start: 40970, Stop: 40551, Start Num: 51
Candidate Starts for Misomonster_68:
(1, 41318), (2, 41315), (5, 41276), (Start: 44 @40979 has 5 MA's), (Start: 51 @40970 has 139 MA's), (Start: 56 @40961 has 14 MA's), (92, 40868), (121, 40715), (134, 40646), (138, 40616),

Gene: MissWhite_64 Start: 39952, Stop: 39575, Start Num: 51

Candidate Starts for MissWhite_64:

(19, 40063), (Start: 41 @39964 has 2 MA's), (Start: 51 @39952 has 139 MA's), (Start: 56 @39943 has 14 MA's), (57, 39940), (62, 39922), (74, 39889), (106, 39793), (121, 39700), (127, 39673), (134, 39631),

Gene: MoneyMay_66 Start: 40943, Stop: 40524, Start Num: 51

Candidate Starts for MoneyMay_66:

(1, 41291), (2, 41288), (Start: 44 @40952 has 5 MA's), (Start: 51 @40943 has 139 MA's), (Start: 56 @40934 has 14 MA's), (92, 40841), (121, 40688), (134, 40619),

Gene: Montavir_64 Start: 40935, Stop: 40525, Start Num: 56

Candidate Starts for Montavir_64:

(1, 41292), (2, 41289), (Start: 44 @40953 has 5 MA's), (Start: 51 @40944 has 139 MA's), (Start: 56 @40935 has 14 MA's), (92, 40842), (121, 40689), (134, 40620),

Gene: Morpher26_59 Start: 40104, Stop: 39718, Start Num: 16

Candidate Starts for Morpher26_59:

(Start: 16 @40104 has 164 MA's), (106, 39945), (109, 39936), (121, 39852), (134, 39783),

Gene: Morrow_62 Start: 40249, Stop: 39869, Start Num: 16

Candidate Starts for Morrow_62:

(Start: 15 @40258 has 8 MA's), (Start: 16 @40249 has 164 MA's), (106, 40090), (107, 40087), (109, 40081), (121, 39997), (134, 39928), (135, 39922),

Gene: MosMoris_70 Start: 40699, Stop: 41190, Start Num: 42

Candidate Starts for MosMoris_70:

(Start: 42 @40699 has 16 MA's), (95, 40846), (121, 41002), (122, 41005), (128, 41041), (134, 41071), (139, 41104),

Gene: MuchMore_70 Start: 40935, Stop: 40516, Start Num: 51

Candidate Starts for MuchMore_70:

(1, 41283), (2, 41280), (5, 41241), (Start: 44 @40944 has 5 MA's), (Start: 51 @40935 has 139 MA's), (Start: 56 @40926 has 14 MA's), (92, 40833), (121, 40680), (134, 40611),

Gene: Mulciber_62 Start: 39367, Stop: 38993, Start Num: 51

Candidate Starts for Mulciber_62:

(3, 39703), (7, 39655), (11, 39598), (20, 39475), (21, 39448), (Start: 42 @39379 has 16 MA's), (Start: 51 @39367 has 139 MA's), (89, 39271), (106, 39208), (109, 39199), (112, 39187), (118, 39133), (121, 39115), (134, 39046),

Gene: Munch_63 Start: 39830, Stop: 39456, Start Num: 51

Candidate Starts for Munch_63:

(3, 40166), (7, 40118), (11, 40061), (20, 39938), (21, 39911), (Start: 42 @39842 has 16 MA's), (Start: 51 @39830 has 139 MA's), (89, 39734), (106, 39671), (109, 39662), (112, 39650), (118, 39596), (121, 39578), (134, 39509),

Gene: Mundrea_59 Start: 40096, Stop: 39716, Start Num: 16

Candidate Starts for Mundrea_59:

(Start: 16 @40096 has 164 MA's), (106, 39937), (109, 39928), (121, 39844), (134, 39775),

Gene: MyraDee_63 Start: 37799, Stop: 37377, Start Num: 37

Candidate Starts for MyraDee_63:

(Start: 37 @37799 has 1 MA's), (65, 37754), (106, 37634), (112, 37613), (118, 37559), (121, 37541), (134, 37472), (136, 37460), (149, 37394),

Gene: Naji_66 Start: 40913, Stop: 40536, Start Num: 51

Candidate Starts for Naji_66:

(19, 41027), (39, 40928), (Start: 51 @40913 has 139 MA's), (67, 40862), (92, 40814), (93, 40811), (106, 40754), (121, 40661), (122, 40658), (134, 40592),

Gene: NearlyHeadless_74 Start: 41154, Stop: 40783, Start Num: 51

Candidate Starts for NearlyHeadless_74:

(Start: 33 @41175 has 1 MA's), (Start: 51 @41154 has 139 MA's), (106, 40995), (116, 40962), (121, 40902), (128, 40863), (134, 40833),

Gene: Nebs_62 Start: 40246, Stop: 39866, Start Num: 16

Candidate Starts for Nebs_62:

(Start: 15 @40255 has 8 MA's), (Start: 16 @40246 has 164 MA's), (106, 40087), (107, 40084), (109, 40078), (121, 39994), (134, 39925),

Gene: Nemo27_60 Start: 40242, Stop: 39862, Start Num: 16

Candidate Starts for Nemo27_60:

(Start: 16 @40242 has 164 MA's), (106, 40083), (109, 40074), (121, 39990), (134, 39921),

Gene: NiceHouse_229 Start: 121776, Stop: 122174, Start Num: 51

Candidate Starts for NiceHouse_229:

(25, 121731), (Start: 45 @121770 has 4 MA's), (Start: 51 @121776 has 139 MA's), (90, 121881), (96, 121911), (108, 121953), (118, 122022), (121, 122040),

Gene: Nirvana_118 Start: 78805, Stop: 78338, Start Num: 54

Candidate Starts for Nirvana_118:

(Start: 54 @78805 has 8 MA's), (65, 78772), (97, 78655), (121, 78508), (127, 78481), (151, 78349),

Gene: Noella_63 Start: 40647, Stop: 40264, Start Num: 16

Candidate Starts for Noella_63:

(Start: 15 @40656 has 8 MA's), (Start: 16 @40647 has 164 MA's), (92, 40551), (106, 40491), (121, 40398), (138, 40299), (139, 40296), (146, 40269),

Gene: Noelle_60 Start: 40405, Stop: 40019, Start Num: 16

Candidate Starts for Noelle_60:

(Start: 16 @40405 has 164 MA's), (106, 40246), (109, 40237), (121, 40153), (122, 40150), (134, 40084),

Gene: Norbert_60 Start: 40646, Stop: 40263, Start Num: 16

Candidate Starts for Norbert_60:

(Start: 15 @40655 has 8 MA's), (Start: 16 @40646 has 164 MA's), (92, 40550), (106, 40490), (121, 40397), (138, 40298), (139, 40295), (146, 40268),

Gene: NorthStar_59 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for NorthStar_59:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: NotAPhaseMom_60 Start: 40247, Stop: 39867, Start Num: 16

Candidate Starts for NotAPhaseMom_60:

(Start: 16 @40247 has 164 MA's), (106, 40088), (109, 40079), (121, 39995), (134, 39926),

Gene: Nyxis_60 Start: 40133, Stop: 39753, Start Num: 16

Candidate Starts for Nyxis_60:

(Start: 16 @40133 has 164 MA's), (106, 39974), (109, 39965), (121, 39881), (134, 39812), (135, 39806),

Gene: OKaNui_61 Start: 40293, Stop: 39913, Start Num: 16

Candidate Starts for OKaNui_61:

(Start: 16 @40293 has 164 MA's), (106, 40134), (109, 40125), (121, 40041), (134, 39972),

Gene: Obama12_62 Start: 40630, Stop: 40250, Start Num: 16

Candidate Starts for Obama12_62:

(Start: 16 @40630 has 164 MA's), (106, 40471), (109, 40462), (121, 40378), (134, 40309),

Gene: Odin_64 Start: 39580, Stop: 39206, Start Num: 56

Candidate Starts for Odin_64:

(19, 39706), (39, 39604), (Start: 51 @39589 has 139 MA's), (Start: 56 @39580 has 14 MA's), (66, 39541), (79, 39514), (106, 39424), (121, 39331), (125, 39310), (129, 39286), (134, 39262),

Gene: Ohfah_62 Start: 40246, Stop: 39866, Start Num: 16

Candidate Starts for Ohfah_62:

(Start: 15 @40255 has 8 MA's), (Start: 16 @40246 has 164 MA's), (106, 40087), (107, 40084), (109, 40078), (121, 39994), (134, 39925),

Gene: OlanP_66 Start: 41002, Stop: 40583, Start Num: 51

Candidate Starts for OlanP_66:

(8, 41257), (Start: 44 @41011 has 5 MA's), (Start: 51 @41002 has 139 MA's), (Start: 56 @40993 has 14 MA's), (92, 40900), (121, 40747), (134, 40678),

Gene: Ollie_67 Start: 40814, Stop: 40395, Start Num: 51

Candidate Starts for Ollie_67:

(1, 41162), (2, 41159), (5, 41120), (6, 41111), (Start: 44 @40823 has 5 MA's), (Start: 51 @40814 has 139 MA's), (Start: 56 @40805 has 14 MA's), (92, 40712), (121, 40559), (134, 40490),

Gene: Orange_62 Start: 39379, Stop: 39005, Start Num: 51

Candidate Starts for Orange_62:

(3, 39715), (7, 39667), (11, 39610), (20, 39487), (Start: 42 @39391 has 16 MA's), (Start: 51 @39379 has 139 MA's), (106, 39220), (109, 39211), (118, 39145), (121, 39127), (134, 39058),

Gene: Orchid_65 Start: 55078, Stop: 54683, Start Num: 50

Candidate Starts for Orchid_65:

(Start: 50 @55078 has 3 MA's), (58, 55063), (118, 54853), (121, 54835), (123, 54826), (134, 54766), (147, 54700), (150, 54691),

Gene: P28Green_68 Start: 40946, Stop: 40527, Start Num: 51

Candidate Starts for P28Green_68:

(1, 41294), (2, 41291), (Start: 44 @40955 has 5 MA's), (Start: 51 @40946 has 139 MA's), (Start: 56 @40937 has 14 MA's), (92, 40844), (121, 40691), (134, 40622),

Gene: PGHhamlin_69 Start: 40935, Stop: 40516, Start Num: 51

Candidate Starts for PGHhamlin_69:

(1, 41283), (2, 41280), (Start: 44 @40944 has 5 MA's), (Start: 51 @40935 has 139 MA's), (Start: 56 @40926 has 14 MA's), (92, 40833), (121, 40680), (134, 40611),

Gene: PP_64 Start: 44619, Stop: 44173, Start Num: 48

Candidate Starts for PP_64:

(32, 44637), (Start: 48 @44619 has 2 MA's), (80, 44538), (121, 44370), (134, 44301), (136, 44289), (148, 44226),

Gene: Palestino_60 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for Palestino_60:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922),

Gene: Panamaxus_61 Start: 40646, Stop: 40263, Start Num: 16

Candidate Starts for Panamaxus_61:

(Start: 15 @40655 has 8 MA's), (Start: 16 @40646 has 164 MA's), (92, 40550), (106, 40490), (121, 40397), (138, 40298), (139, 40295), (146, 40268),

Gene: PatrickStar_66 Start: 55077, Stop: 54682, Start Num: 50

Candidate Starts for PatrickStar_66:

(Start: 50 @55077 has 3 MA's), (58, 55062), (118, 54852), (121, 54834), (123, 54825), (134, 54765), (147, 54699), (150, 54690),

Gene: PauloDiaboli_248 Start: 135825, Stop: 136211, Start Num: 51

Candidate Starts for PauloDiaboli_248:

(Start: 51 @135825 has 139 MA's), (85, 135912), (110, 135996), (118, 136056), (121, 136074), (125, 136095), (138, 136173), (143, 136194),

Gene: Pawn_67 Start: 40833, Stop: 40414, Start Num: 51

Candidate Starts for Pawn_67:

(8, 41088), (17, 40983), (Start: 44 @40842 has 5 MA's), (Start: 51 @40833 has 139 MA's), (Start: 56 @40824 has 14 MA's), (92, 40731), (121, 40578), (134, 40509),

Gene: Peaches_59 Start: 40242, Stop: 39862, Start Num: 16

Candidate Starts for Peaches_59:

(Start: 16 @40242 has 164 MA's), (106, 40083), (109, 40074), (121, 39990), (134, 39921),

Gene: Pembroke_67 Start: 40935, Stop: 40525, Start Num: 56

Candidate Starts for Pembroke_67:

(1, 41292), (2, 41289), (Start: 44 @40953 has 5 MA's), (Start: 51 @40944 has 139 MA's), (Start: 56 @40935 has 14 MA's), (92, 40842), (121, 40689), (134, 40620),

Gene: Penny1_67 Start: 40947, Stop: 40528, Start Num: 51

Candidate Starts for Penny1_67:

(1, 41295), (2, 41292), (Start: 44 @40956 has 5 MA's), (Start: 51 @40947 has 139 MA's), (Start: 56 @40938 has 14 MA's), (92, 40845), (121, 40692), (134, 40623),

Gene: Perplexer_59 Start: 40080, Stop: 39694, Start Num: 16

Candidate Starts for Perplexer_59:

(Start: 16 @40080 has 164 MA's), (106, 39921), (109, 39912), (121, 39828), (134, 39759),

Gene: PeterPeter_61 Start: 40240, Stop: 39860, Start Num: 16

Candidate Starts for PeterPeter_61:

(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919),

Gene: Petersenfast_61 Start: 39390, Stop: 39004, Start Num: 42
Candidate Starts for Petersenfast_61:
(3, 39714), (7, 39666), (11, 39609), (20, 39486), (Start: 42 @39390 has 16 MA's), (Start: 51 @39378 has 139 MA's), (106, 39219), (109, 39210), (118, 39144), (121, 39126), (134, 39057),

Gene: PetiteSangsue_59 Start: 40083, Stop: 39697, Start Num: 16
Candidate Starts for PetiteSangsue_59:
(Start: 16 @40083 has 164 MA's), (106, 39924), (109, 39915), (121, 39831), (134, 39762),

Gene: Ph8s_66 Start: 39754, Stop: 39380, Start Num: 51
Candidate Starts for Ph8s_66:
(19, 39868), (39, 39769), (Start: 51 @39754 has 139 MA's), (Start: 56 @39745 has 14 MA's), (74, 39691), (89, 39658), (106, 39595), (112, 39577), (121, 39505), (130, 39454), (134, 39436),

Gene: Phacado_61 Start: 40242, Stop: 39862, Start Num: 16
Candidate Starts for Phacado_61:
(Start: 16 @40242 has 164 MA's), (106, 40083), (109, 40074), (121, 39990), (134, 39921),

Gene: Phantastic_65 Start: 40293, Stop: 39901, Start Num: 15
Candidate Starts for Phantastic_65:
(4, 40434), (Start: 15 @40293 has 8 MA's), (Start: 16 @40284 has 164 MA's), (106, 40128), (118, 40053), (121, 40035), (138, 39936),

Gene: Phelipe_62 Start: 40246, Stop: 39866, Start Num: 16
Candidate Starts for Phelipe_62:
(Start: 15 @40255 has 8 MA's), (Start: 16 @40246 has 164 MA's), (106, 40087), (107, 40084), (109, 40078), (121, 39994), (134, 39925),

Gene: Phighter1804_61 Start: 40307, Stop: 39927, Start Num: 16
Candidate Starts for Phighter1804_61:
(Start: 16 @40307 has 164 MA's), (106, 40148), (109, 40139), (121, 40055), (134, 39986),

Gene: PhishRPhriends_65 Start: 40010, Stop: 39591, Start Num: 51
Candidate Starts for PhishRPhriends_65:
(8, 40265), (Start: 44 @40019 has 5 MA's), (Start: 51 @40010 has 139 MA's), (Start: 56 @40001 has 14 MA's), (92, 39908), (121, 39755), (134, 39686),

Gene: Phoebe_68 Start: 40936, Stop: 40517, Start Num: 51
Candidate Starts for Phoebe_68:
(1, 41284), (2, 41281), (Start: 44 @40945 has 5 MA's), (Start: 51 @40936 has 139 MA's), (Start: 56 @40927 has 14 MA's), (92, 40834), (121, 40681), (134, 40612),

Gene: Phontbonne_61 Start: 40149, Stop: 39769, Start Num: 16
Candidate Starts for Phontbonne_61:
(Start: 16 @40149 has 164 MA's), (106, 39990), (107, 39987), (109, 39981), (121, 39897), (134, 39828),

Gene: Phoxy_67 Start: 40968, Stop: 40549, Start Num: 51
Candidate Starts for Phoxy_67:
(1, 41316), (2, 41313), (Start: 44 @40977 has 5 MA's), (Start: 51 @40968 has 139 MA's), (Start: 56 @40959 has 14 MA's), (92, 40866), (121, 40713), (134, 40644),

Gene: Phranny_68 Start: 40815, Stop: 40396, Start Num: 51
Candidate Starts for Phranny_68:
(8, 41070), (Start: 44 @40824 has 5 MA's), (Start: 51 @40815 has 139 MA's), (Start: 56 @40806 has 14 MA's), (92, 40713), (121, 40560), (134, 40491),

Gene: Phrappuccino_141 Start: 99435, Stop: 99845, Start Num: 41
Candidate Starts for Phrappuccino_141:
(12, 99213), (Start: 41 @99435 has 2 MA's), (Start: 56 @99456 has 14 MA's), (92, 99555), (108, 99615), (110, 99621), (115, 99639), (121, 99702), (125, 99723), (134, 99780),

Gene: Pipcraft_58 Start: 40243, Stop: 39863, Start Num: 16
Candidate Starts for Pipcraft_58:
(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: Pistachio_64 Start: 40216, Stop: 39833, Start Num: 16
Candidate Starts for Pistachio_64:
(4, 40366), (Start: 15 @40225 has 8 MA's), (Start: 16 @40216 has 164 MA's), (106, 40060), (114, 40033), (118, 39985), (121, 39967), (138, 39868), (146, 39838),

Gene: Pocahontas_63 Start: 40643, Stop: 40260, Start Num: 16
Candidate Starts for Pocahontas_63:
(Start: 15 @40652 has 8 MA's), (Start: 16 @40643 has 164 MA's), (92, 40547), (106, 40487), (121, 40394), (138, 40295), (139, 40292), (146, 40265),

Gene: Poise_74 Start: 40595, Stop: 41086, Start Num: 42
Candidate Starts for Poise_74:
(Start: 42 @40595 has 16 MA's), (95, 40742), (121, 40898), (122, 40901), (128, 40937), (134, 40967), (139, 41000),

Gene: Polymorphads_62 Start: 40236, Stop: 39856, Start Num: 16
Candidate Starts for Polymorphads_62:
(Start: 16 @40236 has 164 MA's), (106, 40077), (109, 40068), (121, 39984), (134, 39915), (135, 39909),

Gene: Pomar16_65 Start: 40953, Stop: 40576, Start Num: 51
Candidate Starts for Pomar16_65:
(19, 41067), (39, 40968), (Start: 51 @40953 has 139 MA's), (67, 40902), (92, 40854), (93, 40851), (106, 40794), (121, 40701), (122, 40698), (134, 40632),

Gene: Popcicle_63 Start: 40643, Stop: 40260, Start Num: 16
Candidate Starts for Popcicle_63:
(Start: 15 @40652 has 8 MA's), (Start: 16 @40643 has 164 MA's), (92, 40547), (106, 40487), (121, 40394), (138, 40295), (139, 40292), (146, 40265),

Gene: PotatoSplit_68 Start: 40947, Stop: 40528, Start Num: 51
Candidate Starts for PotatoSplit_68:
(1, 41295), (2, 41292), (Start: 44 @40956 has 5 MA's), (Start: 51 @40947 has 139 MA's), (Start: 56 @40938 has 14 MA's), (92, 40845), (121, 40692), (134, 40623),

Gene: Pumbaa_61 Start: 40188, Stop: 39808, Start Num: 16
Candidate Starts for Pumbaa_61:
(Start: 16 @40188 has 164 MA's), (106, 40029), (109, 40020), (121, 39936), (134, 39867),

Gene: Puppy_64 Start: 40288, Stop: 39905, Start Num: 16

Candidate Starts for Puppy_64:

(4, 40438), (Start: 15 @40297 has 8 MA's), (Start: 16 @40288 has 164 MA's), (106, 40132), (114, 40105), (118, 40057), (121, 40039), (138, 39940), (146, 39910),

Gene: PurpleHaze_67 Start: 40828, Stop: 40409, Start Num: 51

Candidate Starts for PurpleHaze_67:

(Start: 44 @40837 has 5 MA's), (Start: 51 @40828 has 139 MA's), (Start: 56 @40819 has 14 MA's), (92, 40726), (121, 40573), (134, 40504),

Gene: Quantum_112 Start: 75438, Stop: 74971, Start Num: 54

Candidate Starts for Quantum_112:

(28, 75474), (Start: 54 @75438 has 8 MA's), (63, 75411), (76, 75372), (84, 75336), (97, 75288), (120, 75144), (121, 75141), (138, 75033), (151, 74982),

Gene: QuinnKiro_62 Start: 40646, Stop: 40263, Start Num: 16

Candidate Starts for QuinnKiro_62:

(Start: 15 @40655 has 8 MA's), (Start: 16 @40646 has 164 MA's), (92, 40550), (106, 40490), (121, 40397), (138, 40298), (139, 40295), (146, 40268),

Gene: Quokka_64 Start: 39806, Stop: 39429, Start Num: 51

Candidate Starts for Quokka_64:

(19, 39920), (39, 39821), (Start: 51 @39806 has 139 MA's), (57, 39794), (74, 39743), (106, 39647), (121, 39554), (134, 39485),

Gene: Raela_74 Start: 41152, Stop: 41643, Start Num: 42

Candidate Starts for Raela_74:

(Start: 42 @41152 has 16 MA's), (95, 41299), (121, 41455), (122, 41458), (128, 41494), (134, 41524), (139, 41557),

Gene: Reba_67 Start: 40488, Stop: 40069, Start Num: 51

Candidate Starts for Reba_67:

(8, 40743), (Start: 44 @40497 has 5 MA's), (Start: 51 @40488 has 139 MA's), (Start: 56 @40479 has 14 MA's), (92, 40386), (121, 40233), (134, 40164),

Gene: RedRaider77_73 Start: 40540, Stop: 41031, Start Num: 42

Candidate Starts for RedRaider77_73:

(Start: 42 @40540 has 16 MA's), (95, 40687), (121, 40843), (122, 40846), (128, 40882), (134, 40912), (139, 40945),

Gene: ReginaGlobina_62 Start: 25464, Stop: 25847, Start Num: 45

Candidate Starts for ReginaGlobina_62:

(13, 25248), (Start: 45 @25464 has 4 MA's), (121, 25716),

Gene: Relief_60 Start: 40240, Stop: 39860, Start Num: 16

Candidate Starts for Relief_60:

(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919),

Gene: ResDef_62 Start: 40646, Stop: 40263, Start Num: 16

Candidate Starts for ResDef_62:

(Start: 15 @40655 has 8 MA's), (Start: 16 @40646 has 164 MA's), (92, 40550), (106, 40490), (121, 40397), (138, 40298), (139, 40295), (146, 40268),

Gene: Reynauld_80 Start: 64338, Stop: 63856, Start Num: 52

Candidate Starts for Reynauld_80:

(24, 64383), (27, 64374), (Start: 45 @64344 has 4 MA's), (49, 64341), (Start: 52 @64338 has 1 MA's), (60, 64317), (88, 64224), (90, 64218), (104, 64137), (121, 64020), (126, 63996), (134, 63945), (152, 63861),

Gene: Roary_75 Start: 41394, Stop: 41002, Start Num: 33

Candidate Starts for Roary_75:

(Start: 33 @41394 has 1 MA's), (Start: 51 @41373 has 139 MA's), (106, 41214), (116, 41181), (121, 41121), (128, 41082), (134, 41052),

Gene: RockieBear_59 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for RockieBear_59:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: Rockstar_62 Start: 40119, Stop: 39727, Start Num: 15

Candidate Starts for Rockstar_62:

(Start: 15 @40119 has 8 MA's), (Start: 16 @40110 has 164 MA's), (106, 39954), (118, 39879), (121, 39861), (134, 39792), (138, 39762), (142, 39744),

Gene: Roimos_62 Start: 40492, Stop: 40109, Start Num: 16

Candidate Starts for Roimos_62:

(4, 40642), (Start: 15 @40501 has 8 MA's), (Start: 16 @40492 has 164 MA's), (106, 40336), (118, 40261), (121, 40243), (138, 40144),

Gene: Romney_60 Start: 40240, Stop: 39860, Start Num: 16

Candidate Starts for Romney_60:

(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919), (135, 39913),

Gene: Roosevelt_59 Start: 40245, Stop: 39865, Start Num: 16

Candidate Starts for Roosevelt_59:

(Start: 16 @40245 has 164 MA's), (106, 40086), (109, 40077), (121, 39993), (134, 39924), (135, 39918),

Gene: Rosa24_59 Start: 40274, Stop: 39894, Start Num: 16

Candidate Starts for Rosa24_59:

(Start: 16 @40274 has 164 MA's), (106, 40115), (109, 40106), (121, 40022), (134, 39953),

Gene: Rose5_86 Start: 54868, Stop: 55281, Start Num: 51

Candidate Starts for Rose5_86:

(Start: 51 @54868 has 139 MA's), (67, 54919), (70, 54925), (121, 55159), (125, 55180), (127, 55186), (134, 55228),

Gene: Ruin_61 Start: 40236, Stop: 39856, Start Num: 16

Candidate Starts for Ruin_61:

(Start: 16 @40236 has 164 MA's), (106, 40077), (109, 40068), (121, 39984), (134, 39915), (135, 39909),

Gene: Rummer_66 Start: 40962, Stop: 40552, Start Num: 56

Candidate Starts for Rummer_66:

(1, 41319), (2, 41316), (5, 41277), (6, 41268), (Start: 44 @40980 has 5 MA's), (Start: 51 @40971 has 139 MA's), (Start: 56 @40962 has 14 MA's), (92, 40869), (121, 40716), (134, 40647),

Gene: RunningOnE_13 Start: 4851, Stop: 4486, Start Num: 57

Candidate Starts for RunningOnE_13:

(22, 4929), (Start: 51 @4863 has 139 MA's), (57, 4851), (61, 4833), (121, 4602), (138, 4503), (140, 4497),

Gene: Sabertooth_61 Start: 40245, Stop: 39865, Start Num: 16

Candidate Starts for Sabertooth_61:

(Start: 16 @40245 has 164 MA's), (106, 40086), (109, 40077), (121, 39993), (134, 39924), (135, 39918),

Gene: Sabia_67 Start: 40943, Stop: 40533, Start Num: 56

Candidate Starts for Sabia_67:

(1, 41300), (2, 41297), (Start: 44 @40961 has 5 MA's), (Start: 51 @40952 has 139 MA's), (Start: 56 @40943 has 14 MA's), (92, 40850), (121, 40697), (134, 40628),

Gene: Sabinator_65 Start: 40942, Stop: 40523, Start Num: 51

Candidate Starts for Sabinator_65:

(1, 41290), (2, 41287), (Start: 44 @40951 has 5 MA's), (Start: 51 @40942 has 139 MA's), (Start: 56 @40933 has 14 MA's), (92, 40840), (121, 40687), (134, 40618),

Gene: Saintus_69 Start: 38038, Stop: 37667, Start Num: 51

Candidate Starts for Saintus_69:

(Start: 33 @38059 has 1 MA's), (Start: 51 @38038 has 139 MA's), (106, 37879), (116, 37846), (120, 37789), (121, 37786), (134, 37717),

Gene: Salz_62 Start: 39349, Stop: 38975, Start Num: 51

Candidate Starts for Salz_62:

(3, 39685), (7, 39637), (11, 39580), (20, 39457), (21, 39430), (Start: 42 @39361 has 16 MA's), (Start: 51 @39349 has 139 MA's), (89, 39253), (106, 39190), (109, 39181), (112, 39169), (118, 39115), (121, 39097), (134, 39028),

Gene: Sarkar_121 Start: 75438, Stop: 74971, Start Num: 54

Candidate Starts for Sarkar_121:

(28, 75474), (Start: 54 @75438 has 8 MA's), (63, 75411), (76, 75372), (84, 75336), (97, 75288), (120, 75144), (121, 75141), (138, 75033), (151, 74982),

Gene: Saskia_63 Start: 39389, Stop: 39003, Start Num: 42

Candidate Starts for Saskia_63:

(3, 39713), (7, 39665), (11, 39608), (20, 39485), (21, 39458), (Start: 42 @39389 has 16 MA's), (Start: 51 @39377 has 139 MA's), (106, 39218), (109, 39209), (118, 39143), (121, 39125), (134, 39056),

Gene: Satis_113 Start: 75434, Stop: 74967, Start Num: 54

Candidate Starts for Satis_113:

(28, 75470), (Start: 54 @75434 has 8 MA's), (63, 75407), (76, 75368), (84, 75332), (97, 75284), (120, 75140), (121, 75137), (138, 75029), (151, 74978),

Gene: SaturnRing_64 Start: 40669, Stop: 40286, Start Num: 16

Candidate Starts for SaturnRing_64:

(4, 40819), (Start: 15 @40678 has 8 MA's), (Start: 16 @40669 has 164 MA's), (106, 40513), (114, 40486), (118, 40438), (121, 40420), (138, 40321), (146, 40291),

Gene: Scamp_61 Start: 40245, Stop: 39865, Start Num: 16

Candidate Starts for Scamp_61:

(Start: 16 @40245 has 164 MA's), (106, 40086), (109, 40077), (121, 39993), (134, 39924), (135, 39918),

Gene: Scout_63 Start: 39823, Stop: 39440, Start Num: 16

Candidate Starts for Scout_63:

(4, 39973), (Start: 15 @39832 has 8 MA's), (Start: 16 @39823 has 164 MA's), (106, 39667), (118, 39592), (121, 39574), (138, 39475),

Gene: SenorClean_61 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for SenorClean_61:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: Serenity_65 Start: 39936, Stop: 39559, Start Num: 51

Candidate Starts for Serenity_65:

(39, 39951), (Start: 51 @39936 has 139 MA's), (106, 39777), (121, 39684), (127, 39657), (129, 39639), (134, 39615),

Gene: Settecandela_141 Start: 99435, Stop: 99845, Start Num: 41

Candidate Starts for Settecandela_141:

(12, 99213), (Start: 41 @99435 has 2 MA's), (Start: 56 @99456 has 14 MA's), (92, 99555), (108, 99615), (110, 99621), (115, 99639), (121, 99702), (125, 99723), (134, 99780),

Gene: Shaka_59 Start: 40240, Stop: 39860, Start Num: 16

Candidate Starts for Shaka_59:

(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919),

Gene: Sham4_63 Start: 39389, Stop: 39003, Start Num: 42

Candidate Starts for Sham4_63:

(3, 39713), (7, 39665), (11, 39608), (20, 39485), (Start: 42 @39389 has 16 MA's), (Start: 51 @39377 has 139 MA's), (106, 39218), (109, 39209), (118, 39143), (121, 39125), (134, 39056),

Gene: Sheen_63 Start: 43521, Stop: 43072, Start Num: 51

Candidate Starts for Sheen_63:

(14, 43725), (Start: 51 @43521 has 139 MA's), (74, 43458), (106, 43362), (109, 43353), (121, 43269), (128, 43230), (134, 43200), (153, 43089),

Gene: SheldonCooper_61 Start: 40647, Stop: 40267, Start Num: 16

Candidate Starts for SheldonCooper_61:

(Start: 16 @40647 has 164 MA's), (106, 40488), (109, 40479), (121, 40395), (134, 40326),

Gene: Shygu2_59 Start: 40134, Stop: 39754, Start Num: 16

Candidate Starts for Shygu2_59:

(Start: 16 @40134 has 164 MA's), (106, 39975), (109, 39966), (121, 39882), (134, 39813),

Gene: Silverleaf_85 Start: 54367, Stop: 54780, Start Num: 51

Candidate Starts for Silverleaf_85:

(Start: 51 @54367 has 139 MA's), (98, 54520), (121, 54658), (125, 54679), (127, 54685), (134, 54727),

Gene: Sixama_169 Start: 96671, Stop: 96312, Start Num: 59

Candidate Starts for Sixama_169:

(Start: 59 @96671 has 5 MA's), (72, 96629), (116, 96497), (121, 96437), (123, 96428), (125, 96416), (128, 96398), (141, 96326),

Gene: Skipitt_60 Start: 40237, Stop: 39857, Start Num: 16

Candidate Starts for Skipitt_60:

(Start: 16 @40237 has 164 MA's), (106, 40078), (109, 40069), (121, 39985), (134, 39916), (135, 39910),

Gene: Smeadley_74 Start: 41234, Stop: 40863, Start Num: 51

Candidate Starts for Smeadley_74:

(Start: 33 @41255 has 1 MA's), (Start: 51 @41234 has 139 MA's), (106, 41075), (116, 41042), (120, 40985), (121, 40982), (128, 40943), (134, 40913),

Gene: Snape_63 Start: 39369, Stop: 38995, Start Num: 51

Candidate Starts for Snape_63:

(3, 39705), (7, 39657), (11, 39600), (20, 39477), (Start: 42 @39381 has 16 MA's), (Start: 51 @39369 has 139 MA's), (106, 39210), (109, 39201), (118, 39135), (121, 39117), (134, 39048),

Gene: Snickers_67 Start: 40917, Stop: 40498, Start Num: 51

Candidate Starts for Snickers_67:

(1, 41265), (2, 41262), (Start: 44 @40926 has 5 MA's), (Start: 51 @40917 has 139 MA's), (Start: 56 @40908 has 14 MA's), (92, 40815), (121, 40662), (134, 40593),

Gene: SoJulia_89 Start: 57296, Stop: 57712, Start Num: 45

Candidate Starts for SoJulia_89:

(Start: 40 @57287 has 1 MA's), (Start: 45 @57296 has 4 MA's), (73, 57362), (78, 57374), (83, 57395), (98, 57452), (102, 57473), (117, 57563), (121, 57590), (134, 57659),

Gene: SoYo_66 Start: 40855, Stop: 40436, Start Num: 51

Candidate Starts for SoYo_66:

(1, 41203), (2, 41200), (Start: 44 @40864 has 5 MA's), (Start: 51 @40855 has 139 MA's), (Start: 56 @40846 has 14 MA's), (92, 40753), (121, 40600), (134, 40531),

Gene: SoilDragon_67 Start: 40391, Stop: 39972, Start Num: 51

Candidate Starts for SoilDragon_67:

(1, 40739), (2, 40736), (5, 40697), (Start: 44 @40400 has 5 MA's), (Start: 51 @40391 has 139 MA's), (Start: 56 @40382 has 14 MA's), (92, 40289), (121, 40136), (134, 40067),

Gene: Soshari_69 Start: 40967, Stop: 40548, Start Num: 51

Candidate Starts for Soshari_69:

(1, 41315), (2, 41312), (5, 41273), (Start: 44 @40976 has 5 MA's), (Start: 51 @40967 has 139 MA's), (Start: 56 @40958 has 14 MA's), (92, 40865), (121, 40712), (134, 40643), (149, 40565),

Gene: Sparxx_62 Start: 40238, Stop: 39858, Start Num: 16

Candidate Starts for Sparxx_62:

(Start: 16 @40238 has 164 MA's), (106, 40079), (109, 40070), (121, 39986), (134, 39917), (135, 39911),

Gene: Spike509_67 Start: 40968, Stop: 40549, Start Num: 51

Candidate Starts for Spike509_67:

(1, 41316), (2, 41313), (Start: 44 @40977 has 5 MA's), (Start: 51 @40968 has 139 MA's), (Start: 56 @40959 has 14 MA's), (92, 40866), (121, 40713), (134, 40644),

Gene: Spino_60 Start: 40246, Stop: 39866, Start Num: 16

Candidate Starts for Spino_60:

(Start: 16 @40246 has 164 MA's), (106, 40087), (109, 40078), (121, 39994), (134, 39925), (135, 39919),

Gene: Srilaccoli3_74 Start: 63194, Stop: 62712, Start Num: 52

Candidate Starts for Srilaccoli3_74:

(10, 63443), (46, 63200), (49, 63197), (Start: 52 @63194 has 1 MA's), (60, 63173), (88, 63080), (90, 63074), (104, 62993), (111, 62975), (117, 62903), (121, 62876), (126, 62852), (134, 62801), (152, 62717),

Gene: Stagni_66 Start: 40937, Stop: 40527, Start Num: 56

Candidate Starts for Stagni_66:

(1, 41294), (2, 41291), (5, 41252), (Start: 44 @40955 has 5 MA's), (Start: 51 @40946 has 139 MA's), (Start: 56 @40937 has 14 MA's), (92, 40844), (121, 40691), (134, 40622),

Gene: StarStuff_66 Start: 40915, Stop: 40538, Start Num: 51

Candidate Starts for StarStuff_66:

(19, 41029), (Start: 51 @40915 has 139 MA's), (67, 40864), (74, 40852), (92, 40816), (93, 40813), (106, 40756), (121, 40663), (122, 40660), (134, 40594),

Gene: Stasia_59 Start: 40011, Stop: 39631, Start Num: 16

Candidate Starts for Stasia_59:

(Start: 16 @40011 has 164 MA's), (79, 39936), (106, 39852), (109, 39843), (121, 39759), (134, 39690), (135, 39684),

Gene: SteMason_58 Start: 40240, Stop: 39860, Start Num: 16

Candidate Starts for SteMason_58:

(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919), (135, 39913),

Gene: StepMih_66 Start: 40928, Stop: 40518, Start Num: 56

Candidate Starts for StepMih_66:

(1, 41285), (2, 41282), (5, 41243), (6, 41234), (Start: 44 @40946 has 5 MA's), (Start: 51 @40937 has 139 MA's), (Start: 56 @40928 has 14 MA's), (92, 40835), (121, 40682), (134, 40613),

Gene: Stephig9_73 Start: 41171, Stop: 40800, Start Num: 51

Candidate Starts for Stephig9_73:

(Start: 33 @41192 has 1 MA's), (Start: 51 @41171 has 139 MA's), (106, 41012), (116, 40979), (120, 40922), (121, 40919), (128, 40880), (134, 40850),

Gene: Stewart25555_54 Start: 22712, Stop: 23080, Start Num: 53

Candidate Starts for Stewart25555_54:

(Start: 53 @22712 has 9 MA's), (85, 22793), (121, 22952),

Gene: Stink_58 Start: 39812, Stop: 39426, Start Num: 16

Candidate Starts for Stink_58:

(Start: 16 @39812 has 164 MA's), (106, 39653), (109, 39644), (121, 39560), (134, 39491),

Gene: Sultana_61 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for Sultana_61:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922),

Gene: Superchunk_64 Start: 39205, Stop: 38822, Start Num: 51

Candidate Starts for Superchunk_64:

(19, 39319), (39, 39220), (Start: 51 @39205 has 139 MA's), (66, 39157), (93, 39103), (106, 39040), (121, 38947), (125, 38926), (134, 38878),

Gene: SwirlSquare_70 Start: 40121, Stop: 39744, Start Num: 51

Candidate Starts for SwirlSquare_70:

(19, 40235), (Start: 51 @40121 has 139 MA's), (Start: 56 @40112 has 14 MA's), (89, 40025), (106, 39962), (111, 39947), (116, 39929), (121, 39869), (130, 39818), (134, 39800),

Gene: TNguyen7_65 Start: 40635, Stop: 40252, Start Num: 16

Candidate Starts for TNguyen7_65:

(4, 40785), (Start: 15 @40644 has 8 MA's), (Start: 16 @40635 has 164 MA's), (106, 40479), (114, 40452), (118, 40404), (121, 40386), (138, 40287), (146, 40257),

Gene: TPA4_57 Start: 41159, Stop: 41554, Start Num: 45

Candidate Starts for TPA4_57:

(Start: 45 @41159 has 4 MA's), (92, 41264), (109, 41336), (112, 41348), (121, 41420), (125, 41441), (134, 41489), (144, 41543),

Gene: Taquarus_60 Start: 40246, Stop: 39866, Start Num: 16

Candidate Starts for Taquarus_60:

(Start: 16 @40246 has 164 MA's), (106, 40087), (109, 40078), (121, 39994), (134, 39925), (135, 39919),

Gene: Taurus_68 Start: 40934, Stop: 40524, Start Num: 56

Candidate Starts for Taurus_68:

(1, 41291), (2, 41288), (Start: 44 @40952 has 5 MA's), (Start: 51 @40943 has 139 MA's), (Start: 56 @40934 has 14 MA's), (92, 40841), (121, 40688), (134, 40619),

Gene: Tesla_70 Start: 40389, Stop: 40880, Start Num: 42

Candidate Starts for Tesla_70:

(Start: 42 @40389 has 16 MA's), (95, 40536), (121, 40692), (122, 40695), (128, 40731), (134, 40761), (139, 40794),

Gene: Texage_61 Start: 40647, Stop: 40264, Start Num: 16

Candidate Starts for Texage_61:

(Start: 15 @40656 has 8 MA's), (Start: 16 @40647 has 164 MA's), (92, 40551), (106, 40491), (121, 40398), (138, 40299), (139, 40296), (146, 40269),

Gene: Thanksgivukkah_60 Start: 40241, Stop: 39861, Start Num: 16

Candidate Starts for Thanksgivukkah_60:

(Start: 16 @40241 has 164 MA's), (106, 40082), (109, 40073), (121, 39989), (134, 39920), (135, 39914),

Gene: Tiffany_66 Start: 40838, Stop: 40410, Start Num: 44

Candidate Starts for Tiffany_66:

(1, 41177), (2, 41174), (Start: 44 @40838 has 5 MA's), (Start: 51 @40829 has 139 MA's), (Start: 56 @40820 has 14 MA's), (92, 40727), (121, 40574), (134, 40505),

Gene: Timothy_63 Start: 39346, Stop: 38972, Start Num: 51

Candidate Starts for Timothy_63:

(3, 39682), (7, 39634), (11, 39577), (20, 39454), (Start: 42 @39358 has 16 MA's), (Start: 51 @39346 has 139 MA's), (106, 39187), (109, 39178), (118, 39112), (121, 39094), (134, 39025),

Gene: Timshel_60 Start: 42789, Stop: 42340, Start Num: 51

Candidate Starts for Timshel_60:

(Start: 51 @42789 has 139 MA's), (58, 42774), (74, 42726), (106, 42630), (112, 42609), (113, 42606), (121, 42537), (128, 42498), (134, 42468), (145, 42411), (153, 42357),

Gene: TinaFeyge_59 Start: 40238, Stop: 39858, Start Num: 16

Candidate Starts for TinaFeyge_59:

(Start: 16 @40238 has 164 MA's), (106, 40079), (109, 40070), (121, 39986), (134, 39917), (135, 39911),

Gene: TinyPebbles_66 Start: 40973, Stop: 40554, Start Num: 51

Candidate Starts for TinyPebbles_66:

(1, 41321), (2, 41318), (5, 41279), (Start: 44 @40982 has 5 MA's), (Start: 51 @40973 has 139 MA's), (Start: 56 @40964 has 14 MA's), (92, 40871), (121, 40718), (134, 40649), (138, 40619),

Gene: TinyTimmy_63 Start: 39395, Stop: 39021, Start Num: 51

Candidate Starts for TinyTimmy_63:

(3, 39731), (7, 39683), (11, 39626), (20, 39503), (21, 39476), (Start: 42 @39407 has 16 MA's), (Start: 51 @39395 has 139 MA's), (89, 39299), (106, 39236), (109, 39227), (112, 39215), (118, 39161), (121, 39143), (134, 39074),

Gene: Tinybot_60 Start: 40273, Stop: 39893, Start Num: 16

Candidate Starts for Tinybot_60:

(Start: 16 @40273 has 164 MA's), (106, 40114), (109, 40105), (121, 40021), (134, 39952),

Gene: TopsytheTRex_62 Start: 40006, Stop: 39629, Start Num: 51

Candidate Starts for TopsytheTRex_62:

(39, 40021), (Start: 51 @40006 has 139 MA's), (93, 39904), (106, 39847), (121, 39754), (129, 39709), (134, 39685),

Gene: TiroTheta9_60 Start: 40237, Stop: 39857, Start Num: 16

Candidate Starts for TiroTheta9_60:

(Start: 16 @40237 has 164 MA's), (106, 40078), (109, 40069), (121, 39985), (134, 39916), (135, 39910),

Gene: Todacoro_63 Start: 40646, Stop: 40263, Start Num: 16

Candidate Starts for Todacoro_63:

(Start: 15 @40655 has 8 MA's), (Start: 16 @40646 has 164 MA's), (92, 40550), (106, 40490), (121, 40397), (138, 40298), (139, 40295), (146, 40268),

Gene: Tomathan_66 Start: 40962, Stop: 40585, Start Num: 51

Candidate Starts for Tomathan_66:

(19, 41076), (39, 40977), (Start: 51 @40962 has 139 MA's), (67, 40911), (92, 40863), (93, 40860), (106, 40803), (121, 40710), (122, 40707), (134, 40641),

Gene: Toro_63 Start: 43633, Stop: 43184, Start Num: 51

Candidate Starts for Toro_63:

(14, 43837), (Start: 51 @43633 has 139 MA's), (74, 43570), (106, 43474), (109, 43465), (121, 43381), (128, 43342), (134, 43312), (153, 43201),

Gene: Tourach_86 Start: 56255, Stop: 56671, Start Num: 45

Candidate Starts for Tourach_86:

(Start: 40 @56246 has 1 MA's), (Start: 45 @56255 has 4 MA's), (78, 56333), (82, 56351), (83, 56354), (98, 56411), (101, 56429), (102, 56432), (117, 56522), (121, 56549), (134, 56618),

Gene: Travvers_65 Start: 40912, Stop: 40535, Start Num: 51

Candidate Starts for Travvers_65:

(19, 41026), (39, 40927), (Start: 51 @40912 has 139 MA's), (67, 40861), (92, 40813), (93, 40810), (106, 40753), (121, 40660), (122, 40657), (134, 40591),

Gene: Trina_43 Start: 16818, Stop: 16444, Start Num: 55

Candidate Starts for Trina_43:

(Start: 55 @16818 has 1 MA's), (75, 16761), (86, 16734), (93, 16713), (103, 16677), (112, 16644), (121, 16572), (134, 16503), (135, 16497),

Gene: TroyPia_62 Start: 40241, Stop: 39861, Start Num: 16

Candidate Starts for TroyPia_62:

(Start: 16 @40241 has 164 MA's), (106, 40082), (109, 40073), (121, 39989), (134, 39920), (135, 39914),

Gene: TygerBlood_61 Start: 40243, Stop: 39863, Start Num: 16

Candidate Starts for TygerBlood_61:

(Start: 16 @40243 has 164 MA's), (106, 40084), (109, 40075), (121, 39991), (134, 39922), (135, 39916),

Gene: Tyson_86 Start: 54794, Stop: 55207, Start Num: 51

Candidate Starts for Tyson_86:

(Start: 51 @54794 has 139 MA's), (67, 54845), (70, 54851), (121, 55085), (125, 55106), (127, 55112), (134, 55154),

Gene: UPIE_84 Start: 54390, Stop: 54803, Start Num: 51

Candidate Starts for UPIE_84:

(Start: 51 @54390 has 139 MA's), (67, 54441), (70, 54447), (121, 54681), (125, 54702), (127, 54708), (134, 54750),

Gene: Ulysses_60 Start: 39923, Stop: 39543, Start Num: 16

Candidate Starts for Ulysses_60:

(Start: 16 @39923 has 164 MA's), (106, 39764), (109, 39755), (121, 39671), (134, 39602), (135, 39596),

Gene: VC3_67 Start: 40889, Stop: 40512, Start Num: 51

Candidate Starts for VC3_67:

(19, 41003), (Start: 51 @40889 has 139 MA's), (Start: 56 @40880 has 14 MA's), (62, 40859), (66, 40841), (74, 40826), (121, 40637), (127, 40610), (130, 40586), (134, 40568),

Gene: VasuNzinga_72 Start: 40491, Stop: 40982, Start Num: 42

Candidate Starts for VasuNzinga_72:

(31, 40473), (Start: 42 @40491 has 16 MA's), (95, 40638), (121, 40794), (122, 40797), (128, 40833), (134, 40863), (139, 40896),

Gene: Veracruz_61 Start: 40646, Stop: 40263, Start Num: 16

Candidate Starts for Veracruz_61:

(Start: 15 @40655 has 8 MA's), (Start: 16 @40646 has 164 MA's), (92, 40550), (106, 40490), (121, 40397), (138, 40298), (139, 40295), (146, 40268),

Gene: Vix_65 Start: 41026, Stop: 40607, Start Num: 51

Candidate Starts for Vix_65:

(1, 41374), (2, 41371), (Start: 44 @41035 has 5 MA's), (Start: 51 @41026 has 139 MA's), (Start: 56 @41017 has 14 MA's), (92, 40924), (121, 40771), (134, 40702),

Gene: Wander_61 Start: 40240, Stop: 39860, Start Num: 16

Candidate Starts for Wander_61:

(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919),

Gene: Watson_66 Start: 40926, Stop: 40516, Start Num: 56

Candidate Starts for Watson_66:

(1, 41283), (2, 41280), (Start: 44 @40944 has 5 MA's), (Start: 51 @40935 has 139 MA's), (Start: 56 @40926 has 14 MA's), (92, 40833), (121, 40680), (134, 40611),

Gene: Wilbur_61 Start: 40240, Stop: 39860, Start Num: 16

Candidate Starts for Wilbur_61:

(Start: 16 @40240 has 164 MA's), (106, 40081), (109, 40072), (121, 39988), (134, 39919), (135, 39913),

Gene: Wildcat_134 Start: 64288, Stop: 64722, Start Num: 53

Candidate Starts for Wildcat_134:

(Start: 53 @64288 has 9 MA's), (57, 64297), (68, 64333), (69, 64336), (90, 64399), (100, 64447), (102, 64453), (105, 64477), (119, 64576), (121, 64591), (133, 64663),

Gene: Wile_59 Start: 40114, Stop: 39728, Start Num: 16

Candidate Starts for Wile_59:

(Start: 16 @40114 has 164 MA's), (106, 39955), (109, 39946), (121, 39862), (134, 39793),

Gene: Wizard007_60 Start: 40248, Stop: 39868, Start Num: 16

Candidate Starts for Wizard007_60:

(Start: 16 @40248 has 164 MA's), (106, 40089), (107, 40086), (109, 40080), (121, 39996), (134, 39927),

Gene: Wolpertinger_61 Start: 39390, Stop: 39004, Start Num: 42

Candidate Starts for Wolpertinger_61:

(3, 39714), (7, 39666), (11, 39609), (20, 39486), (Start: 42 @39390 has 16 MA's), (Start: 51 @39378 has 139 MA's), (106, 39219), (109, 39210), (118, 39144), (121, 39126), (134, 39057),

Gene: Wooldri_69 Start: 40855, Stop: 40436, Start Num: 51

Candidate Starts for Wooldri_69:

(1, 41203), (2, 41200), (5, 41161), (Start: 44 @40864 has 5 MA's), (Start: 51 @40855 has 139 MA's), (Start: 56 @40846 has 14 MA's), (92, 40753), (121, 40600), (134, 40531), (149, 40453),

Gene: Wyatt2_86 Start: 54792, Stop: 55205, Start Num: 51

Candidate Starts for Wyatt2_86:

(Start: 51 @54792 has 139 MA's), (67, 54843), (70, 54849), (121, 55083), (125, 55104), (127, 55110), (134, 55152),

Gene: Xena_58 Start: 40080, Stop: 39694, Start Num: 16

Candidate Starts for Xena_58:

(Start: 16 @40080 has 164 MA's), (106, 39921), (109, 39912), (121, 39828), (134, 39759),

Gene: YoSam321_61 Start: 40237, Stop: 39857, Start Num: 16

Candidate Starts for YoSam321_61:

(Start: 16 @40237 has 164 MA's), (106, 40078), (109, 40069), (121, 39985), (134, 39916), (135, 39910),

Gene: Zarafa_62 Start: 40585, Stop: 40202, Start Num: 16

Candidate Starts for Zarafa_62:

(4, 40735), (Start: 15 @40594 has 8 MA's), (Start: 16 @40585 has 164 MA's), (106, 40429), (118, 40354), (121, 40336), (138, 40237),

Gene: Zetzy_66 Start: 40506, Stop: 40087, Start Num: 51

Candidate Starts for Zetzy_66:

(1, 40854), (2, 40851), (5, 40812), (Start: 44 @40515 has 5 MA's), (Start: 51 @40506 has 139 MA's), (Start: 56 @40497 has 14 MA's), (65, 40470), (92, 40404), (121, 40251), (134, 40182),