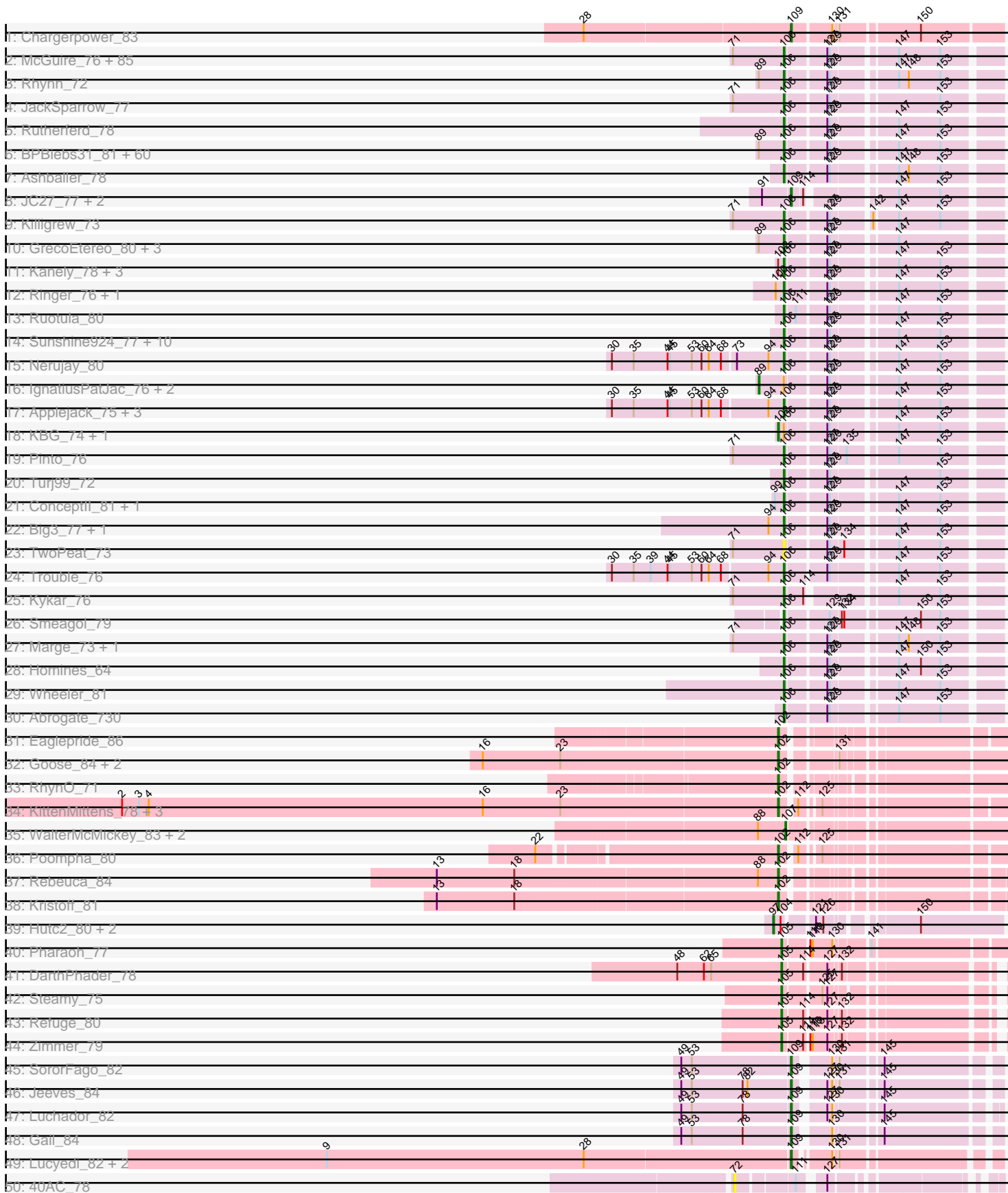
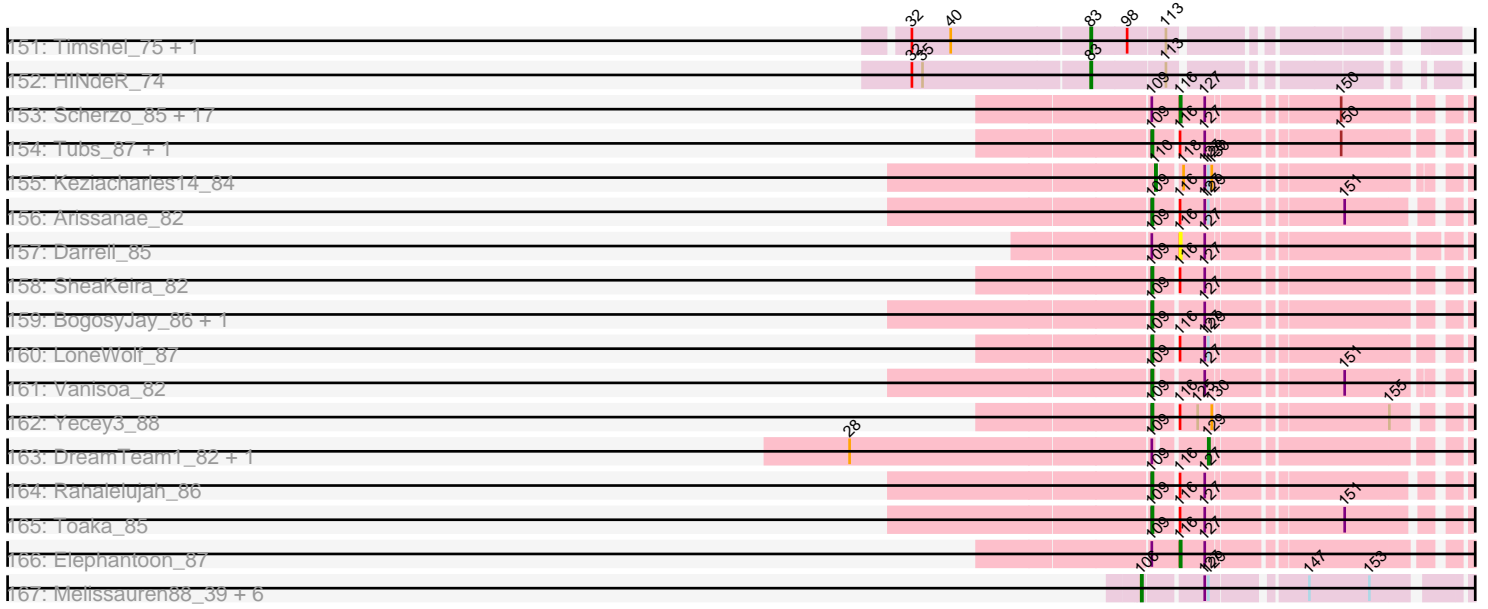


Pham 157465



Pham 157465



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 157465 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157465 has 582 members, 38 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_83
- Track 2 : McGuire_76, Alsfro_83, Adahisdi_72, Rufus_79, PinkPlastic_72, Dreamboat_76, Arcanine_80, Snazzy_77, Ichabod_79, HermioneGrange_80, Crispicous1_71, GageAP_79, Bexan_71, Petp2012_77, Bob3_77, Teodoridan_74, Fushigi_70, DD5_74, Bones_72, Rubeus_77, Traft412_76, Ciao_73, Gyzlar_69, Monet_80, Maroc7_78, Slagathor_77, Peterson_75, Anglerfish_78, Ajay_73, BillKnuckles_70, Marcell_69, Fascinus_72, BigMau_79, Bigfoot_71, SarFire_80, Briton15_79, Paraselene_74, Jerm2_78, Pepe_70, Rohr_79, Seabiscuit_77, BeesKnees_77, Oogway_75, Fenn_79, Treddle_78, Francis47_78, Agaliana_74, Papez_78, Bircsak_77, CactusRose_79, Norz_72, PherrisBueller_75, DreamCatcher_80, Gompeii16_77, ILeeKay_74, Bruns_79, PacerPaul_81, Wilkins_73, Topgun_72, Alvin_74, Seanderson_76, Zephyr_78, Jasper_75, Lamina13_80, Solon_72, Dynamix_76, Michley_77, Beatrix_73, Thor_80, Rajelicia_78, StrongArm_72, Blue_73, HanShotFirst_74, Kugel_78, Edtherson_75, Squee_77, Violet_71, SkiPole_85, Chanagan_71, TheloniousMonk_78, Switzer_75, Naira_78, Scowl_77, Pippin_77, Sagefire_73, Carlyle_77
- Track 3 : Rhynn_72
- Track 4 : JackSparrow_77
- Track 5 : Rutherferd_78
- Track 6 : BPBiebs31_81, NEHalo_72, Arlo_76, Magnar_72, Moose_78, Pelly_77, Perseus_76, AFIS_73, PhrostyMug_78, Smairt_80, Bethlehem_79, Forsytheast_78, Paphu_71, Espresso_69, JuliaChild_77, Lockley_73, Zeeculate_72, KyMonks1A_82, Ohno789_79, Sibs6_76, Gwendoluna_79, HarryOW_77, Swole_74, STLscum_82, Fajezeel_79, Eyeball_75, SpikeBT_73, MaryBeth_74, Lopton_75, Molly_76, Greg_79, Aeneas_81, Tote_72, Dulcie_77, Acme_80, Sumter_73, U2_70, PSullivan_72, Abbyshoes_76, Dussy_75, Parliament_77, Pita2_77, Mryolo_71, MetalQZJ_73, Makemake_79, Pari_81, PattyP_76, Kenmech_78, Niza_76, Museum_76, Burton_77, Mule_75, PascalRango_74, SwissCheese_80, Corvo_78, Tasp14_75, Gandalf20_75, Watermelon_79, Lesedi_73, MPlant7149_76, DrFeelGood_72
- Track 7 : Ashballer_78
- Track 8 : JC27_77, Jorgensen_83, Zeuska_78
- Track 9 : Killigrew_73
- Track 10 : GrecoEtereo_80, Manatee_74, Euphoria_77, BaconJack_78
- Track 11 : Kanely_78, Altman_79, Doom_69, Licorice_77
- Track 12 : Ringer_76, Nhonho_72
- Track 13 : Ruotula_80

- Track 14 : Sunshine924_77, Petruchio_76, BK1_70, Bxb1_70, Tripl3t_79, Marsha_76, Magnito_75, KSSJEB_73, A6_70, LilBib_73, Graduation_79
- Track 15 : Nerujay_80
- Track 16 : IgnatiusPatJac_76, BluSpix_73, StewieG_72
- Track 17 : Applejack_75, Dexes_77, Barriga_83, Hope4ever_77
- Track 18 : KBG_74, BigPaolini_74
- Track 19 : Pinto_76
- Track 20 : Turj99_72
- Track 21 : Conceptll_81, Atkinbua_82
- Track 22 : Big3_77, MrGordo_77
- Track 23 : TwoPeat_73
- Track 24 : Trouble_76
- Track 25 : Kykar_76
- Track 26 : Smeagol_79
- Track 27 : Marge_73, Target_76
- Track 28 : Homines_64
- Track 29 : Wheeler_81
- Track 30 : Abrogate_730
- Track 31 : Eaglepride_86
- Track 32 : Goose_84, Chupacabra_80, OKCentral2016_82
- Track 33 : RhynO_71
- Track 34 : KittenMittens_78, Severus_81, PeaceMeal1_80, Drake94_80
- Track 35 : WalterMcMickey_83, Topanga_73, Twister_84
- Track 36 : Poompha_80
- Track 37 : Rebeuca_84
- Track 38 : Kristoff_81
- Track 39 : Hutc2_80, Fibonacci_83, Salz_79
- Track 40 : Pharaoh_77
- Track 41 : DARTHPhader_78
- Track 42 : Steamy_75
- Track 43 : Refuge_80
- Track 44 : Zimmer_79
- Track 45 : SororFago_82
- Track 46 : Jeeves_84
- Track 47 : Luchador_82
- Track 48 : Gail_84
- Track 49 : Lucyedi_82, PainterBoy_82, EagleEye_83
- Track 50 : 40AC_78
- Track 51 : MyraDee_79
- Track 52 : Kimona_76
- Track 53 : LilTurb_84, Jerm_85, Agape74_85
- Track 54 : Journey13_68
- Track 55 : Piro94_82
- Track 56 : ChipMunk_84
- Track 57 : MissWhite_76
- Track 58 : Anselm_84
- Track 59 : KingCyrus_82
- Track 60 : Changeling_82, AnnaL29_85, Loser_86, RedRock_83
- Track 61 : WideWale_84, HarryHoudini_83, Updawg_84, Drake55_84, Baehexic_82, Centaur_83, NaSiaTalie_84, Flare16_83, Equemioh13_83
- Track 62 : Kalpine_85, Trixie_83
- Track 63 : 20ES_85, CRB1_84, First_0084
- Track 64 : TarsusIV_82

- Track 65 : Fameo_81, QueenB2_80, Heffalump_80
- Track 66 : XianYue_82
- Track 67 : BiancaTri92_81
- Track 68 : Iwokeuplikedis_86
- Track 69 : Malec_82
- Track 70 : WeiHuaDA_85
- Track 71 : DudeLittle_81, Retro23_83
- Track 72 : Bactobuster_74, Landor_80, Phaded_76, Jaan_80
- Track 73 : Herbertwm_77
- Track 74 : AbbyPaige_85, Dignity_85, Whabigail7_83
- Track 75 : Acolyte_77
- Track 76 : BabyBack_76
- Track 77 : VA6_83, AN3_83
- Track 78 : MiculUcigas_83
- Track 79 : SnapTap_83, FiringLine_83, QueenBeesly_83, Georgie2_85, SweetiePie_83, SemperFi_83, Power_83
- Track 80 : Benvolio_82
- Track 81 : BobSwaget_77, Miko_78
- Track 82 : ArcherNM_78
- Track 83 : GaugeLDP_77
- Track 84 : NothingSpecial_78
- Track 85 : Larenn_81
- Track 86 : Crucio_83
- Track 87 : Dalmatian_83
- Track 88 : Leviathan_85, Turbido_84, Smeagan_86
- Track 89 : Lokk_78, Rachaly_80
- Track 90 : Jsquared_87
- Track 91 : NicoleTera_81
- Track 92 : Echild_85
- Track 93 : IronMan_79
- Track 94 : EvilGenius_83
- Track 95 : JoshKayV_85
- Track 96 : Trooper_82
- Track 97 : EZMoney23_79
- Track 98 : Colin_82
- Track 99 : Pukovnik_77
- Track 100 : Texage_77, Noella_80
- Track 101 : Todacoro_79, Pocahontas_78, Panamaxus_76, Popcicle_79, Hookmount_79
- Track 102 : Sabertooth_75, OKaNui_74, Morrow_77, JoongJeon_74, Mazhar510_75, Burger_73, PeterPeter_75, Houdini22_74, Millski_74, Avle17_75, Holli_74, Bartimeaus_75, Ruin_75, Pumbaa_75, YoSam321_75, Albee_75, Bruiser_74, Relief_74, Wander_75, Maxo_77, Flux_76, Nemo27_74, Bombshell_75, Eris_74, Abdiel_74, TiroTheta9_74, Kingmustik0402_75, Jaykayelowell_72, Melvin_77, Sparxx_76, Romney_74, Phelipe_76, Broseidon_75, Cocoaberry_75, SheldonCooper_75, Alberto7_76, ICleared_74, Kyee_75, CentreCat_75, Iracema64_75, Thanksgivukkah_74, Scamp_75, Lemur_75, Baby16_75, LappelDuVide_71, LittleB_75, Phighter1804_75, Chaph_75, Kratark_74, DirtyDunning_74, Caelakin_73, Skipitt_74, Kampy_74, Iceman_73, Phacado_75, BubbleTrouble_74, Spino_74, Roosevelt_73, Nyxis_74, JetBlade_76, TroyPia_76, Florean_75, Taquarus_74, Dhanush_75, Pipcraft_71, Commander_73, Citius_75, LochMonster_76, BellusTerra_76, Eurydice_76, Eros_75, Tinybot_74, MeeZee_74, Maverick_74, NorthStar_72, Lunsford_72, TinaFeyge_73, Peaches_73, Shaka_73,

Deano_72, Ohfah_76, KFPoly_74, Blackmoor_74, Palestino_74, Connomayer_75, HamSlice_71, BangNhom_72, Ulysses_74, Wilbur_75, Arturo_72, TygerBlood_75, LittleGuy_75, Koreni_74, Gadost_75, Clarenza_74, NotAPhaseMom_74, Phontbonne_75, Nebs_76, Medusa_74, Annyong_74, Funston_74, Cerulean_77

- Track 103 : Noelle_75
- Track 104 : Happiness_74, ChampagnePapi_78, Obama12_76, LHTSCC_77, Shygu2_74
- Track 105 : Cintron_76
- Track 106 : Achebe_73, Katalie136_74, Wizard007_74, Cici_74
- Track 107 : AvatarAhPeg_74
- Track 108 : Stasia_73
- Track 109 : Morpher26_74, Bumblebee11_73
- Track 110 : Wile_73, Badger_73
- Track 111 : Stink_70
- Track 112 : AbbysRanger_74, Perplexer_74, Backyardigan_72, Xena_73, Datway_74, PetiteSangsue_74
- Track 113 : Cindaradix_70
- Track 114 : Mundrea_74
- Track 115 : Druantia_74, Eagle_74, Lorenzo_75, Polymorphads_76
- Track 116 : LeoAvram_74
- Track 117 : Kremtemulon_71, Camperdownii_73
- Track 118 : Miramae_74
- Track 119 : Eapen_75
- Track 120 : Tarynearal_69
- Track 121 : PickleBack_71, Lev2_71, Conspiracy_71, Aragog_70, Discoknowium_68, ForGetIt_71
- Track 122 : Airmid_73
- Track 123 : Micasa_68, Theia_69, Dublin_70
- Track 124 : AgentM_70, Phlorence_69
- Track 125 : Bluefalcon_66, Ghoulboy_70, Archetta_68, SydNat_70
- Track 126 : LittleCherry_69, Bonamassa_70, HuhtaEnerson15_68
- Track 127 : Naca_73, ElTiger69_76, PetterN_78, Chadwick_74, Benedict_74
- Track 128 : Cuco_69, Coog_67, Midas2_67
- Track 129 : Swirley_70
- Track 130 : Zolita_69
- Track 131 : MarysWell_70
- Track 132 : Milcery_70
- Track 133 : McFly_83, DaVinci_81, Hoot_78, Cookiedough_83, SuperAwesome_83, GreedyLawyer_77, Kipper29_83, Pmask_82, BABullseye_76, Newrala_82
- Track 134 : WunderPhul_84
- Track 135 : Yokurt_83, ToneTone_81, Wiks_83, Artemis2UCLA_83, Zulu_85, Blue7_85, Roksolana_84, Zaka_84, Tucker_84, Indra_87, Koko_85
- Track 136 : Rifter_84, Hammer_84
- Track 137 : Neeharika16_81, Dorothea_80
- Track 138 : Jordennis_81
- Track 139 : Candra_81
- Track 140 : Gruunaga_83, Gladiator_80
- Track 141 : EricB_82
- Track 142 : Priamo_85
- Track 143 : Helmet_85, Garak_85
- Track 144 : CloudWang3_84, Hexamo_83
- Track 145 : Kazan_84, VohminGhazi_83, SmellyB_83
- Track 146 : Blinn1_87

- Track 147 : SuperCallie99_80
- Track 148 : Isiphiwo_80
- Track 149 : Chartreuse_80
- Track 150 : Sheen_75
- Track 151 : Timshel_75, DroogsArmy_74
- Track 152 : HINdeR_74
- Track 153 : Scherzo_85, Qobbit_85, Pioneer_87, Phaeder_87, Aliter_80, Ugenie5_74, Beemo_87, ExplosioNervosa_85, Phonnegut_87, Eidsmoe_85, Myxus_87, HortumSL17_88, EmyBug_81, Spouty_82, Conquerage_85, Alma_85, Catalina_89, Priya_85
- Track 154 : Tubs_87, Fayely_85
- Track 155 : Keziacharles14_84
- Track 156 : Arissanae_82
- Track 157 : Darrell_85
- Track 158 : SheaKeira_82
- Track 159 : BogosyJay_86, Maminiaina_86
- Track 160 : LoneWolf_87
- Track 161 : Vanisoa_82
- Track 162 : Yecey3_88
- Track 163 : DreamTeam1_82, Charm_82
- Track 164 : Rahalelujah_86
- Track 165 : Toaka_85
- Track 166 : Elephantoon_87
- Track 167 : Melissauren88_39, Fruitloop_38, Batiatus_39, QTRlifeCrisis_76, Buttons_73, LunaBlu_43, Hermia_68

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

The start number called the most often in the published annotations is 106, it was called in 188 of the 544 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A6_70, AFIS_73, Abbyshoes_76, Abrogate_730, Acme_80, Adahisdi_72, Aeneas_81, Agaliana_74, Ajay_73, Alsfro_83, Altman_79, Alvin_74, Anglerfish_78, Applejack_75, Arcanine_80, Arlo_76, Ashballer_78, Atkinbua_82, BK1_70, BPBiebs31_81, BaconJack_78, Barriga_83, Batiatus_39, Beatrix_73, BeesKnees_77, Bethlehem_79, Bexan_71, Big3_77, BigMau_79, Bigfoot_71, BillKnuckles_70, Bircsak_77, Blue_73, Bob3_77, Bones_72, Briton15_79, Bruns_79, Burton_77, Buttons_73, Bxb1_70, CactusRose_79, Carlyle_77, Chanagan_71, Ciao_73, Conceptll_81, Corvo_78, Crispicous1_71, DD5_74, Dexes_77, Doom_69, DrFeelGood_72, DreamCatcher_80, Dreamboat_76, Dulcie_77, Dussy_75, Dynamix_76, Edtherson_75, Espresso_69, Euphoria_77, Eyeball_75, Fajezeel_79, Fascinus_72, Fenn_79, Forsytheast_78, Francis47_78, Fruitloop_38, Fushigi_70, GageAP_79, Gandalf20_75, Gompeii16_77, Graduation_79, GrecoEtereo_80, Greg_79, Gwendoluna_79, Gyzlar_69, HanShotFirst_74, HarryOW_77, Hermia_68, HermioneGrange_80, Homines_64, Hope4ever_77, ILeeKay_74, Ichabod_79, JackSparrow_77, Jasper_75, Jerm2_78, JuliaChild_77, KSSJEB_73, Kanely_78, Kenmech_78, Killigrew_73, Kugel_78, KyMonks1A_82, Kykar_76, Lamina13_80, Lesedi_73, Licorice_77, LilBib_73, Lockley_73, Lopton_75, LunaBlu_43, MPlant7149_76, Magnar_72, Magnito_75, Makemake_79, Manatee_74, Marcell_69,

Marge_73, Maroc7_78, Marsha_76, MaryBeth_74, McGuire_76, Melissauren88_39, MetalQZJ_73, Michley_77, Molly_76, Monet_80, Moose_78, MrGordo_77, Mryolo_71, Mule_75, Museum_76, NEHalo_72, Naira_78, Nerujay_80, Nhonho_72, Niza_76, Norz_72, Ohno789_79, Oogway_75, PSullivan_72, PacerPaul_81, Papez_78, Paphu_71, Paraselene_74, Pari_81, Parliament_77, PascalRango_74, PattyP_76, Pelly_77, Pepe_70, Perseus_76, Peterson_75, Petp2012_77, Petruccio_76, PherrisBueller_75, PhrostyMug_78, PinkPlastic_72, Pinto_76, Pippin_77, Pita2_77, QTRlifeCrisis_76, Rajelicia_78, Rhynn_72, Ringer_76, Rohr_79, Rubeus_77, Rufus_79, Ruotula_80, Rutherford_78, STLscum_82, Sagefire_73, SarFire_80, Scowl_77, Seabiscuit_77, Seanderson_76, Sibs6_76, SkiPole_85, Slagathor_77, Smairt_80, Smeagol_79, Snazzy_77, Solon_72, SpikeBT_73, Squee_77, StrongArm_72, Sumter_73, Sunshine924_77, SwissCheese_80, Switzer_75, Swole_74, Target_76, Tasp14_75, Teodoridan_74, TheloniousMonk_78, Thor_80, Topgun_72, Tote_72, Traft412_76, Treddle_78, Tripl3t_79, Trouble_76, Turj99_72, TwoPeat_73, U2_70, Violet_71, Watermelon_79, Wheeler_81, Wilkins_73, Zeeculate_72, Zephyr_78,

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

- BigPaolini_74, BluSpix_73, IgnatiusPatJac_76, KBG_74, StewieG_72,

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

- 20ES_85, 40AC_78, AN3_83, AbbyPaige_85, AbbysRanger_74, Abdiel_74, Achebe_73, Acolyte_77, Agape74_85, AgentM_70, Airmid_73, Albee_75, Alberto7_76, Aliter_80, Alma_85, AnnaL29_85, Annyong_74, Anselm_84, Aragog_70, ArcherNM_78, Archetta_68, Arissanae_82, Artemis2UCLA_83, Arturo_72, AvatarAhPeg_74, Avle17_75, BABullseye_76, Baby16_75, BabyBack_76, Backyardigan_72, Bactobuster_74, Badger_73, Baehexic_82, BangNhom_72, Bartimeaus_75, Beemo_87, BellusTerra_76, Benedict_74, Benvolio_82, BiancaTri92_81, Blackmoor_74, Blinn1_87, Blue7_85, Bluefalcon_66, BobSwaget_77, BogosyJay_86, Bombshell_75, Bonamassa_70, Broseidon_75, Bruiser_74, BubbleTrouble_74, Bumblebee11_73, Burger_73, CRB1_84, Caelakin_73, Camperdownii_73, Candra_81, Catalina_89, Centaur_83, CentreCat_75, Cerulean_77, Chadwick_74, ChampagnePapi_78, Changeling_82, Chaph_75, Chargerpower_83, Charm_82, Chartreuse_80, ChipMunk_84, Chupacabra_80, Cici_74, Cindaradix_70, Cintron_76, Citius_75, Clarenza_74, CloudWang3_84, Cocoaberry_75, Colin_82, Commander_73, Connomayer_75, Conquerage_85, Conspiracy_71, Coog_67, Cookiedough_83, Crucio_83, Cuco_69, DaVinci_81, Dalmatian_83, Darrell_85, DARTHPhader_78, Datway_74, Deano_72, Dhanush_75, Dignity_85, DirtyDunning_74, Discoknowium_68, Dorothea_80, Drake55_84, Drake94_80, DreamTeam1_82, DroogsArmy_74, Druantia_74, Dublin_70, DudeLittle_81, EZMoney23_79, EagleEye_83, Eagle_74, Eaglepride_86, Eapen_75, Echild_85, Eidsmoe_85, ElTiger69_76, Elephantoon_87, EmyBug_81, Equemioh13_83, EricB_82, Eris_74, Eros_75, Eurydice_76, EvilGenius_83, ExplosioNervosa_85, Fameo_81, Fayely_85, Fibonacci_83, FiringLine_83, First_0084, Flare16_83, Florean_75, Flux_76, ForGetIt_71, Funston_74, Gadost_75, Gail_84, Garak_85, GaugeLDP_77, Georgie2_85, Ghoulboy_70, Gladiator_80, Goose_84, GreedyLawyer_77, Gruunaga_83, HINdeR_74, HamSlice_71, Hammer_84, Happiness_74, HarryHoudini_83, Heffalump_80, Helmet_85, Herbertwm_77, Hexamo_83, Holli_74, Hookmount_79, Hoot_78, HortumSL17_88, Houdini22_74, HuhtaEnerson15_68, Hutc2_80, ICleared_74, Iceman_73, Indra_87, Iracema64_75, IronMan_79, Isiphiwo_80, Iwokeuplikedis_86, JC27_77, Jaan_80, Jaykayelowell_72, Jeeves_84, Jerm_85, JetBlade_76, JoongJeon_74, Jordennis_81, Jorgensen_83, JoshKayV_85, Journey13_68, Jsquared_87, KFPoly_74, Kalpine_85,

Kampy_74, Katalie136_74, Kazan_84, Keziacharles14_84, Kimona_76, KingCyrus_82, Kingmustik0402_75, Kipper29_83, KittenMittens_78, Koko_85, Koreni_74, Kratark_74, Kremtemulon_71, Kristoff_81, Kyee_75, LHTSCC_77, Landor_80, LappelDuVide_71, Larenn_81, Lemur_75, LeoAvram_74, Lev2_71, Leviathan_85, LilTurb_84, LittleB_75, LittleCherry_69, LittleGuy_75, LochMonster_76, Lokk_78, LoneWolf_87, Lorenzo_75, Loser_86, Luchador_82, Lucyedi_82, Lunsford_72, Malec_82, Maminiaina_86, MarysWell_70, Maverick_74, Maxo_77, Mazhar510_75, McFly_83, Medusa_74, MeeZee_74, Melvin_77, Micasa_68, MiculUcigas_83, Midas2_67, Miko_78, Milcery_70, Millski_74, Miramae_74, MissWhite_76, Morpher26_74, Morrow_77, Mundrea_74, MyraDee_79, Myxus_87, NaSiaTalie_84, Naca_73, Nebs_76, Neeharika16_81, Nemo27_74, Newrala_82, NicoleTera_81, Noella_80, Noelle_75, NorthStar_72, NotAPhaseMom_74, NothingSpecial_78, Nyxis_74, OKCentral2016_82, OKaNui_74, Obama12_76, Ohfah_76, PainterBoy_82, Palestino_74, Panamaxus_76, PeaceMeal1_80, Peaches_73, Perplexer_74, PeterPeter_75, PetiteSangsue_74, PetterN_78, Phacado_75, Phaded_76, Phaeder_87, Pharaoh_77, Phelipe_76, Phighter1804_75, Phlorence_69, Phonnegut_87, Phontbonne_75, PickleBack_71, Pioneer_87, Pipcraft_71, Piro94_82, Pmask_82, Pocahontas_78, Polymorphads_76, Poompha_80, Popcicle_79, Power_83, Priamo_85, Priya_85, Pukovnik_77, Pumbaa_75, Qobbit_85, QueenB2_80, QueenBeesly_83, Rachaly_80, Rahalelujah_86, Rebeuca_84, RedRock_83, Refuge_80, Relief_74, Retro23_83, RhynO_71, Rifter_84, Roksolana_84, Romney_74, Roosevelt_73, Ruin_75, Sabertooth_75, Salz_79, Scamp_75, Scherzo_85, SemperFi_83, Severus_81, Shaka_73, Sheakeira_82, Sheen_75, SheldonCooper_75, Shygu2_74, Skipitt_74, Smeagan_86, SmellyB_83, SnapTap_83, SororFago_82, Sparxx_76, Spino_74, Spouty_82, Stasia_73, Steamy_75, Stink_70, SuperAwesome_83, SuperCallie99_80, SweetiePie_83, Swirley_70, SydNat_70, Taquarus_74, TarsusIV_82, Tarynearal_69, Texage_77, Thanksgivukkah_74, Theia_69, Timshel_75, TinaFeyge_73, Tinybot_74, TiroTheta9_74, Toaka_85, Todacoro_79, ToneTone_81, Topanga_73, Trixie_83, Trooper_82, TroyPia_76, Tubs_87, Tucker_84, Turbido_84, Twister_84, TygerBlood_75, Ugenie5_74, Ulysses_74, Updawg_84, VA6_83, Vanisoa_82, VohminGhazi_83, WalterMcMickey_83, Wander_75, WeiHuaDA_85, Whabigail7_83, WideWale_84, Wiks_83, Wilbur_75, Wile_73, Wizard007_74, WunderPhul_84, Xena_73, XianYue_82, Yecey3_88, YoSam321_75, Yokurt_83, Zaka_84, Zeuska_78, Zimmer_79, Zolita_69, Zulu_85,

Summary by start number:

Start 46:

- Found in 17 of 582 (2.9%) of genes in pham
- Manual Annotations of this start: 2 of 544
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Bumblebee11_73 (A4), Morpher26_74 (A4),

Start 47:

- Found in 17 of 582 (2.9%) of genes in pham
- Manual Annotations of this start: 12 of 544
- Called 76.5% of time when present
- Phage (with cluster) where this start called: AbbysRanger_74 (A4), Achebe_73 (A4), Backyardigan_72 (A4), Camperdownii_73 (A4), Cici_74 (A4), Datway_74 (A4), Katalie136_74 (A4), Kremtemulon_71 (A4), Noelle_75 (A4), Perplexer_74 (A4), PetiteSangsue_74 (A4), Wizard007_74 (A4), Xena_73 (A4),

Start 51:

- Found in 1 of 582 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 544
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LeoAvram_74 (A4),

Start 52:

- Found in 20 of 582 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 544
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Blinn1_87 (A6), Candra_81 (A6), Dorothea_80 (A6), Neeharika16_81 (A6),

Start 54:

- Found in 7 of 582 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 544
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Journey13_68 (A2),

Start 56:

- Found in 11 of 582 (1.9%) of genes in pham
- Manual Annotations of this start: 2 of 544
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Badger_73 (A4), Wile_73 (A4),

Start 68:

- Found in 12 of 582 (2.1%) of genes in pham
- Manual Annotations of this start: 5 of 544
- Called 41.7% of time when present
- Phage (with cluster) where this start called: BobSwaget_77 (A2), Lokk_78 (A2), Miko_78 (A2), Rachaly_80 (A2), Stasia_73 (A4),

Start 69:

- Found in 7 of 582 (1.2%) of genes in pham
- Manual Annotations of this start: 5 of 544
- Called 71.4% of time when present
- Phage (with cluster) where this start called: AvatarAhPeg_74 (A4), Cindaradix_70 (A4), Kimona_76 (A19), Miramae_74 (A4), Mundrea_74 (A4),

Start 70:

- Found in 163 of 582 (28.0%) of genes in pham
- Manual Annotations of this start: 146 of 544
- Called 93.3% of time when present
- Phage (with cluster) where this start called: 20ES_85 (A2), AN3_83 (A2), AbbyPaige_85 (A2), Abdiel_74 (A4), Agape74_85 (A2), Albee_75 (A4), Alberto7_76 (A4), Anyong_74 (A4), Arturo_72 (A4), Avle17_75 (A4), BABullseye_76 (A6), Baby16_75 (A4), Bactobuster_74 (A2), BangNhom_72 (A4), Bartimeaus_75 (A4), BellusTerra_76 (A4), Benvolio_82 (A2), BiancaTri92_81 (A2), Blackmoor_74 (A4), Bombshell_75 (A4), Broseidon_75 (A4), Bruiser_74 (A4), BubbleTrouble_74 (A4), Burger_73 (A4), CRB1_84 (A2), Caelakin_73 (A4), CentreCat_75 (A4), Cerulean_77 (A4), ChampagnePapi_78 (A4), Chaph_75 (A4), ChipMunk_84 (A2), Citius_75 (A4), Clarenza_74 (A4), Cocoaberry_75 (A4), Commander_73 (A4), Connomayer_75 (A4),

Cookiedough_83 (A6), DaVinci_81 (A6), Deano_72 (A4), Dhanush_75 (A4), Dignity_85 (A2), DirtyDunning_74 (A4), Druantia_74 (A4), Eagle_74 (A4), Eapen_75 (A4), Eris_74 (A4), Eros_75 (A4), Eurydice_76 (A4), EvilGenius_83 (A2), First_0084 (A2), Florean_75 (A4), Flux_76 (A4), Funston_74 (A4), Gadost_75 (A4), GreedyLawyer_77 (A6), HamSlice_71 (A4), Happiness_74 (A4), Holli_74 (A4), Hoot_78 (A6), Houdini22_74 (A4), ICleared_74 (A4), Iceman_73 (A4), Iracema64_75 (A4), Isiphiwo_80 (A6), Jaan_80 (A2), Jaykayelowell_72 (A4), Jerm_85 (A2), JetBlade_76 (A4), JoongJeon_74 (A4), JoshKayV_85 (A2), KFPoly_74 (A4), Kamy_74 (A4), Kazan_84 (A6), KingCyrus_82 (A2), Kingmustik0402_75 (A4), Kipper29_83 (A6), Koreni_74 (A4), Kratark_74 (A4), Kyee_75 (A4), LHTSCC_77 (A4), Landor_80 (A2), LappelDuVide_71 (A4), Lemur_75 (A4), Leviathan_85 (A2), LilTurb_84 (A2), LittleB_75 (A4), LittleGuy_75 (A4), LochMonster_76 (A4), Lorenzo_75 (A4), Lunsford_72 (A4), Maverick_74 (A4), Maxo_77 (A4), Mazhar510_75 (A4), McFly_83 (A6), Medusa_74 (A4), MeeZee_74 (A4), Melvin_77 (A4), Millski_74 (A4), Morrow_77 (A4), Nebs_76 (A4), Nemo27_74 (A4), Newrala_82 (A6), NorthStar_72 (A4), NotAPhaseMom_74 (A4), Nyxis_74 (A4), OKaNui_74 (A4), Obama12_76 (A4), Ohfah_76 (A4), Palestino_74 (A4), Peaches_73 (A4), PeterPeter_75 (A4), Phacado_75 (A4), Phaded_76 (A2), Phelipe_76 (A4), Phighter1804_75 (A4), Phontbonne_75 (A4), Pipcraft_71 (A4), Pmask_82 (A6), Polymorphads_76 (A4), Pukovnik_77 (A2), Pumbaa_75 (A4), Relief_74 (A4), Romney_74 (A4), Roosevelt_73 (A4), Ruin_75 (A4), Sabertooth_75 (A4), Scamp_75 (A4), Shaka_73 (A4), SheldonCooper_75 (A4), Shygu2_74 (A4), Skipitt_74 (A4), Smeagan_86 (A2), SmellyB_83 (A6), Sparxx_76 (A4), Spino_74 (A4), SuperAwesome_83 (A6), Taquarus_74 (A4), Thanksgivukkah_74 (A4), TinaFeyge_73 (A4), Tinybot_74 (A4), TiroTheta9_74 (A4), TroyPia_76 (A4), Turbido_84 (A2), TygerBlood_75 (A4), Ulysses_74 (A4), VA6_83 (A2), VohminGhazi_83 (A6), Wander_75 (A4), Whabigail7_83 (A2), Wilbur_75 (A4), XianYue_82 (A2), YoSam321_75 (A4),

Start 72:

- Found in 56 of 582 (9.6%) of genes in pham
- Manual Annotations of this start: 38 of 544
- Called 71.4% of time when present
- Phage (with cluster) where this start called: 40AC_78 (A17), AnnaL29_85 (A2), Anselm_84 (A2), Baehexic_82 (A2), Centaur_83 (A2), Changeling_82 (A2), Colin_82 (A2), Crucio_83 (A2), Dalmatian_83 (A2), Drake55_84 (A2), DudeLittle_81 (A2), Echild_85 (A2), Equemioh13_83 (A2), Fameo_81 (A2), FiringLine_83 (A2), Flare16_83 (A2), Georgie2_85 (A2), HarryHoudini_83 (A2), Heffalump_80 (A2), Herbertwm_77 (A2), Iwokeuplikedis_86 (A2), Larenn_81 (A2), Loser_86 (A2), Malec_82 (A2), MiculUcigas_83 (A2), NaSiaTalie_84 (A2), NicoleTera_81 (A2), Piro94_82 (A2), Power_83 (A2), QueenB2_80 (A2), QueenBeesly_83 (A2), RedRock_83 (A2), Retro23_83 (A2), SemperFi_83 (A2), SnapTap_83 (A2), SweetiePie_83 (A2), TarsusIV_82 (A2), Trooper_82 (A2), Updawg_84 (A2), WideWale_84 (A2),

Start 73:

- Found in 5 of 582 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 544
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Kalpine_85 (A2), Trixie_83 (A2),

Start 76:

- Found in 3 of 582 (0.5%) of genes in pham

- Manual Annotations of this start: 2 of 544
- Called 66.7% of time when present
- Phage (with cluster) where this start called: GaugeLDP_77 (A2), NothingSpecial_78 (A2),

Start 77:

- Found in 1 of 582 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 544
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cintron_76 (A4),

Start 80:

- Found in 1 of 582 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 544
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IronMan_79 (A2),

Start 83:

- Found in 3 of 582 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 544
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DroogsArmy_74 (A7), HINdeR_74 (A7), Timshel_75 (A7),

Start 85:

- Found in 8 of 582 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 544
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Acolyte_77 (A2), EZMoney23_79 (A2), WeiHuaDA_85 (A2),

Start 86:

- Found in 1 of 582 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stink_70 (A4),

Start 89:

- Found in 69 of 582 (11.9%) of genes in pham
- Manual Annotations of this start: 1 of 544
- Called 4.3% of time when present
- Phage (with cluster) where this start called: BluSpix_73 (A1), IgnatiusPatJac_76 (A1), StewieG_72 (A1),

Start 93:

- Found in 6 of 582 (1.0%) of genes in pham
- Manual Annotations of this start: 6 of 544
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bonamassa_70 (A5), Coog_67 (A5), Cuco_69 (A5), HuhtaEnerson15_68 (A5), LittleCherry_69 (A5), Midas2_67 (A5),

Start 95:

- Found in 16 of 582 (2.7%) of genes in pham

- Manual Annotations of this start: 7 of 544
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Archetta_68 (A5), Bluefalcon_66 (A5), Dublin_70 (A5), Ghoulboy_70 (A5), MarysWell_70 (A5), Micasa_68 (A5), SydNat_70 (A5), Theia_69 (A5),

Start 97:

- Found in 21 of 582 (3.6%) of genes in pham
- Manual Annotations of this start: 14 of 544
- Called 71.4% of time when present
- Phage (with cluster) where this start called: AgentM_70 (A5), Aragog_70 (A5), BabyBack_76 (A2), Conspiracy_71 (A5), Discoknowium_68 (A5), Fibonacci_83 (A11), ForGetIt_71 (A5), Hutc2_80 (A11), Lev2_71 (A5), Milcery_70 (A5), Phlorence_69 (A5), PickleBack_71 (A5), Salz_79 (A11), Swirley_70 (A5), Tarynearal_69 (A5),

Start 100:

- Found in 17 of 582 (2.9%) of genes in pham
- Manual Annotations of this start: 2 of 544
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Airmid_73 (A5), Zolita_69 (A5),

Start 101:

- Found in 59 of 582 (10.1%) of genes in pham
- Manual Annotations of this start: 18 of 544
- Called 30.5% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_83 (A6), Blue7_85 (A6), CloudWang3_84 (A6), Gladiator_80 (A6), Gruunaga_83 (A6), Hammer_84 (A6), Hexamo_83 (A6), Indra_87 (A6), Koko_85 (A6), Rifter_84 (A6), Roksolana_84 (A6), ToneTone_81 (A6), Tucker_84 (A6), Wiks_83 (A6), WunderPhul_84 (A6), Yokurt_83 (A6), Zaka_84 (A6), Zulu_85 (A6),

Start 102:

- Found in 19 of 582 (3.3%) of genes in pham
- Manual Annotations of this start: 15 of 544
- Called 78.9% of time when present
- Phage (with cluster) where this start called: ArcherNM_78 (A2), BigPaolini_74 (A1), Chupacabra_80 (A10), Drake94_80 (A10), Eaglepride_86 (A10), Goose_84 (A10), KBG_74 (A1), KittenMittens_78 (A10), Kristoff_81 (A10), OKCentral2016_82 (A10), PeaceMeal1_80 (A10), Poompha_80 (A10), Rebeuca_84 (A10), RhynO_71 (A10), Severus_81 (A10),

Start 103:

- Found in 140 of 582 (24.1%) of genes in pham
- Manual Annotations of this start: 3 of 544
- Called 2.1% of time when present
- Phage (with cluster) where this start called: Jordennis_81 (A6), Priamo_85 (A6), SuperCallie99_80 (A6),

Start 105:

- Found in 70 of 582 (12.0%) of genes in pham
- Manual Annotations of this start: 5 of 544
- Called 7.1% of time when present

- Phage (with cluster) where this start called: DARTHPhader_78 (A12), Pharaoh_77 (A12), Refuge_80 (A12), Steamy_75 (A12), Zimmer_79 (A12),

Start 106:

- Found in 206 of 582 (35.4%) of genes in pham
- Manual Annotations of this start: 188 of 544
- Called 97.6% of time when present
- Phage (with cluster) where this start called: A6_70 (A1), AFIS_73 (A1), Abbysshoes_76 (A1), Abrogate_730 (A1), Acme_80 (A1), Adahisdi_72 (A1), Aeneas_81 (A1), Agaliana_74 (A1), Ajay_73 (A1), Alsfro_83 (A1), Altman_79 (A1), Alvin_74 (A1), Anglerfish_78 (A1), Applejack_75 (A1), Arcanine_80 (A1), Arlo_76 (A1), Ashballer_78 (A1), Atkinbua_82 (A1), BK1_70 (A1), BPBiebs31_81 (A1), BaconJack_78 (A1), Barriga_83 (A1), Batiatus_39 (F1), Beatrix_73 (A1), BeesKnees_77 (A1), Bethlehem_79 (A1), Bexan_71 (A1), Big3_77 (A1), BigMau_79 (A1), Bigfoot_71 (A1), BillKnuckles_70 (A1), Bircsak_77 (A1), Blue_73 (A1), Bob3_77 (A1), Bones_72 (A1), Briton15_79 (A1), Bruns_79 (A1), Burton_77 (A1), Buttons_73 (A1), Bxb1_70 (A1), CactusRose_79 (A1), Carlyle_77 (A1), Chanagan_71 (A1), Ciao_73 (A1), Conceptll_81 (A1), Corvo_78 (A1), Crispicous1_71 (A1), DD5_74 (A1), Dexes_77 (A1), Doom_69 (A1), DrFeelGood_72 (A1), DreamCatcher_80 (A1), Dreamboat_76 (A1), Dulcie_77 (A1), Dussy_75 (A1), Dynamix_76 (A1), Edtherson_75 (A1), Espresso_69 (A1), Euphoria_77 (A1), Eyeball_75 (A1), Fajezeel_79 (A1), Fascinus_72 (A1), Fenn_79 (A1), Forsytheast_78 (A1), Francis47_78 (A1), Fruitloop_38 (F1), Fushigi_70 (A1), GageAP_79 (A1), Gandalf20_75 (A1), Gompeii16_77 (A1), Graduation_79 (A1), GrecoEtereo_80 (A1), Greg_79 (A1), Gwendoluna_79 (A1), Gyzlar_69 (A1), HanShotFirst_74 (A1), HarryOW_77 (A1), Hermia_68 (A1), HermioneGrange_80 (A1), Homines_64 (A1), Hope4ever_77 (A1), ILeeKay_74 (A1), Ichabod_79 (A1), JackSparrow_77 (A1), Jasper_75 (A1), Jerm2_78 (A1), JuliaChild_77 (A1), KSSJEB_73 (A1), Kanely_78 (A1), Kenmech_78 (A1), Killigrew_73 (A1), Kugel_78 (A1), KyMonks1A_82 (A1), Kykar_76 (A1), Lamina13_80 (A1), Lesedi_73 (A1), Licorice_77 (A1), LilBib_73 (A1), Lockley_73 (A1), Lopton_75 (A1), LunaBlu_43 (F1), MPlant7149_76 (A1), Magnar_72 (A1), Magnito_75 (A1), Makemake_79 (A1), Manatee_74 (A1), Marcell_69 (A1), Marge_73 (A1), Maroc7_78 (A1), Marsha_76 (A1), MaryBeth_74 (A1), McGuire_76 (A1), Melissauren88_39 (F1), MetalQZJ_73 (A1), Michley_77 (A1), Molly_76 (A1), Monet_80 (A1), Moose_78 (A1), MrGordo_77 (A1), Mryolo_71 (A1), Mule_75 (A1), Museum_76 (A1), NEHalo_72 (A1), Naira_78 (A1), Nerujay_80 (A1), Nhonho_72 (A1), Niza_76 (A1), Norz_72 (A1), Ohno789_79 (A1), Oogway_75 (A1), PSullivan_72 (A1), PacerPaul_81 (A1), Papez_78 (A1), Paphu_71 (A1), Paraselene_74 (A1), Pari_81 (A1), Parliament_77 (A1), PascalRango_74 (A1), PattyP_76 (A1), Pelly_77 (A1), Pepe_70 (A1), Perseus_76 (A1), Peterson_75 (A1), Petp2012_77 (A1), Petruchio_76 (A1), PherrisBueller_75 (A1), PhrostyMug_78 (A1), PinkPlastic_72 (A1), Pinto_76 (A1), Pippin_77 (A1), Pita2_77 (A1), QTRlifeCrisis_76 (A1), Rajelicia_78 (A1), Rhynn_72 (A1), Ringer_76 (A1), Rohr_79 (A1), Rubeus_77 (A1), Rufus_79 (A1), Ruotula_80 (A1), Rutherford_78 (A1), STLscum_82 (A1), Sagefire_73 (A1), SarFire_80 (A1), Scowl_77 (A1), Seabiscuit_77 (A1), Seanderson_76 (A1), Sibs6_76 (A1), SkiPole_85 (A1), Slagathor_77 (A1), Smairt_80 (A1), Smeagol_79 (A1), Snazzy_77 (A1), Solon_72 (A1), SpikeBT_73 (A1), Squee_77 (A1), StrongArm_72 (A1), Sumter_73 (A1), Sunshine924_77 (A1), SwissCheese_80 (A1), Switzer_75 (A1), Swole_74 (A1), Target_76 (A1), Tasp14_75 (A1), Teodoridan_74 (A1), TheloniousMonk_78 (A1), Thor_80 (A1), Topgun_72 (A1), Tote_72 (A1), Traft412_76 (A1), Treddle_78 (A1), Tripl3t_79 (A1), Trouble_76 (A1), Turj99_72 (A1), TwoPeat_73 (A1), U2_70 (A1), Violet_71 (A1), Watermelon_79 (A1), Wheeler_81 (A1), Wilkins_73 (A1), Zeeculate_72 (A1), Zephyr_78 (A1),

Start 107:

- Found in 16 of 582 (2.7%) of genes in pham
- Manual Annotations of this start: 8 of 544
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Benedict_74 (A5), Chadwick_74 (A5), EITiger69_76 (A5), Naca_73 (A5), PetterN_78 (A5), Topanga_73 (A10), Twister_84 (A10), WalterMcMickey_83 (A10),

Start 108:

- Found in 29 of 582 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 544
- Called 3.4% of time when present
- Phage (with cluster) where this start called: EricB_82 (A6),

Start 109:

- Found in 84 of 582 (14.4%) of genes in pham
- Manual Annotations of this start: 32 of 544
- Called 39.3% of time when present
- Phage (with cluster) where this start called: Arissanae_82 (A9), BogosyJay_86 (A9), Chargerpower_83 (A), Chartreuse_80 (A6), EagleEye_83 (A16), Fayely_85 (A9), Gail_84 (A14), Hookmount_79 (A3), JC27_77 (A1), Jeeves_84 (A14), Jorgensen_83 (A1), Jsquared_87 (A2), LoneWolf_87 (A9), Luchador_82 (A14), Lucyedi_82 (A16), Maminiaina_86 (A9), MissWhite_76 (A2), MyraDee_79 (A18), Noella_80 (A3), PainterBoy_82 (A16), Panamaxus_76 (A3), Pocahontas_78 (A3), Popcicle_79 (A3), Rahalelujah_86 (A9), SheaKeira_82 (A9), SororFago_82 (A14), Texage_77 (A3), Toaka_85 (A9), Todacoro_79 (A3), Tubs_87 (A9), Vanisoa_82 (A9), Yecey3_88 (A9), Zeuska_78 (A1),

Start 110:

- Found in 57 of 582 (9.8%) of genes in pham
- Manual Annotations of this start: 1 of 544
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Garak_85 (A6), Helmet_85 (A6), Keziacharles14_84 (A9),

Start 113:

- Found in 5 of 582 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 544
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Sheen_75 (A7),

Start 116:

- Found in 37 of 582 (6.4%) of genes in pham
- Manual Annotations of this start: 17 of 544
- Called 54.1% of time when present
- Phage (with cluster) where this start called: Aliter_80 (A9), Alma_85 (A9), Beemo_87 (A9), Catalina_89 (A9), Conquerage_85 (A9), Darrell_85 (A9), Eidsmoe_85 (A9), Elephantoon_87 (A9), EmyBug_81 (A9), ExplosioNervosa_85 (A9), HortumSL17_88 (A9), Myxus_87 (A9), Phaeder_87 (A9), Phonnegut_87 (A9), Pioneer_87 (A9), Priya_85 (A9), Qobbit_85 (A9), Scherzo_85 (A9), Spouty_82 (A9), Ugenie5_74 (A9),

Start 129:

- Found in 252 of 582 (43.3%) of genes in pham
- Manual Annotations of this start: 2 of 544
- Called 0.8% of time when present
- Phage (with cluster) where this start called: Charm_82 (A9), DreamTeam1_82 (A9),

Summary by clusters:

There are 18 clusters represented in this pham: A, A14, A17, A16, A11, A10, A12, A19, A18, F1, A1, A3, A2, A5, A4, A7, A6, A9,

Info for manual annotations of cluster A:

- Start number 109 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A1:

- Start number 89 was manually annotated 1 time for cluster A1.
- Start number 102 was manually annotated 2 times for cluster A1.
- Start number 106 was manually annotated 184 times for cluster A1.
- Start number 109 was manually annotated 3 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 102 was manually annotated 12 times for cluster A10.
- Start number 107 was manually annotated 3 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 97 was manually annotated 3 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 105 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 109 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A16:

- Start number 109 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 109 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 69 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 54 was manually annotated 1 time for cluster A2.
- Start number 68 was manually annotated 4 times for cluster A2.
- Start number 70 was manually annotated 22 times for cluster A2.
- Start number 72 was manually annotated 38 times for cluster A2.
- Start number 73 was manually annotated 2 times for cluster A2.
- Start number 76 was manually annotated 2 times for cluster A2.
- Start number 80 was manually annotated 1 time for cluster A2.
- Start number 85 was manually annotated 1 time for cluster A2.
- Start number 102 was manually annotated 1 time for cluster A2.

- Start number 109 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 109 was manually annotated 7 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 46 was manually annotated 2 times for cluster A4.
- Start number 47 was manually annotated 12 times for cluster A4.
- Start number 51 was manually annotated 1 time for cluster A4.
- Start number 56 was manually annotated 2 times for cluster A4.
- Start number 68 was manually annotated 1 time for cluster A4.
- Start number 69 was manually annotated 4 times for cluster A4.
- Start number 70 was manually annotated 110 times for cluster A4.
- Start number 77 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A5:

- Start number 93 was manually annotated 6 times for cluster A5.
- Start number 95 was manually annotated 7 times for cluster A5.
- Start number 97 was manually annotated 11 times for cluster A5.
- Start number 100 was manually annotated 2 times for cluster A5.
- Start number 107 was manually annotated 5 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 52 was manually annotated 1 time for cluster A6.
- Start number 70 was manually annotated 14 times for cluster A6.
- Start number 101 was manually annotated 18 times for cluster A6.
- Start number 103 was manually annotated 3 times for cluster A6.
- Start number 108 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A7:

- Start number 83 was manually annotated 3 times for cluster A7.
- Start number 113 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A9:

- Start number 109 was manually annotated 11 times for cluster A9.
- Start number 110 was manually annotated 1 time for cluster A9.
- Start number 116 was manually annotated 17 times for cluster A9.
- Start number 129 was manually annotated 2 times for cluster A9.

Info for manual annotations of cluster F1:

- Start number 106 was manually annotated 4 times for cluster F1.

Gene Information:

Gene: 20ES_85 Start: 47721, Stop: 47398, Start Num: 70

Candidate Starts for 20ES_85:

(Start: 70 @47721 has 146 MA's), (111, 47655), (133, 47613),

Gene: 40AC_78 Start: 47105, Stop: 46806, Start Num: 72

Candidate Starts for 40AC_78:

(Start: 72 @47105 has 38 MA's), (111, 47042), (127, 47018),

Gene: A6_70 Start: 44506, Stop: 44207, Start Num: 106

Candidate Starts for A6_70:

(Start: 106 @44506 has 188 MA's), (127, 44461), (Start: 129 @44458 has 2 MA's), (147, 44389), (153, 44338),

Gene: AFIS_73 Start: 47515, Stop: 47216, Start Num: 106

Candidate Starts for AFIS_73:

(Start: 89 @47545 has 1 MA's), (Start: 106 @47515 has 188 MA's), (127, 47470), (Start: 129 @47467 has 2 MA's), (147, 47398), (153, 47347),

Gene: AN3_83 Start: 45926, Stop: 45603, Start Num: 70

Candidate Starts for AN3_83:

(15, 46256), (17, 46229), (41, 46019), (Start: 70 @45926 has 146 MA's), (Start: 72 @45923 has 38 MA's), (Start: 105 @45875 has 5 MA's), (111, 45860), (133, 45818),

Gene: AbbyPaige_85 Start: 47978, Stop: 47670, Start Num: 70

Candidate Starts for AbbyPaige_85:

(Start: 70 @47978 has 146 MA's), (Start: 72 @47975 has 38 MA's), (Start: 105 @47927 has 5 MA's), (111, 47912), (157, 47753),

Gene: AbbysRanger_74 Start: 45728, Stop: 45411, Start Num: 47

Candidate Starts for AbbysRanger_74:

(Start: 46 @45731 has 2 MA's), (Start: 47 @45728 has 12 MA's), (Start: 54 @45713 has 1 MA's), (75, 45677), (Start: 110 @45662 has 1 MA's), (Start: 129 @45623 has 2 MA's), (139, 45590),

Gene: Abbysshoes_76 Start: 46768, Stop: 46469, Start Num: 106

Candidate Starts for Abbysshoes_76:

(Start: 89 @46798 has 1 MA's), (Start: 106 @46768 has 188 MA's), (127, 46723), (Start: 129 @46720 has 2 MA's), (147, 46651), (153, 46600),

Gene: Abdiel_74 Start: 45659, Stop: 45360, Start Num: 70

Candidate Starts for Abdiel_74:

(Start: 70 @45659 has 146 MA's), (Start: 103 @45617 has 3 MA's),

Gene: Abrogate_730 Start: 47383, Stop: 47084, Start Num: 106

Candidate Starts for Abrogate_730:

(Start: 106 @47383 has 188 MA's), (127, 47338), (Start: 129 @47335 has 2 MA's), (147, 47266), (153, 47215),

Gene: Achebe_73 Start: 45705, Stop: 45394, Start Num: 47

Candidate Starts for Achebe_73:

(Start: 46 @45708 has 2 MA's), (Start: 47 @45705 has 12 MA's), (Start: 56 @45687 has 2 MA's), (57, 45684), (75, 45654), (Start: 110 @45642 has 1 MA's), (Start: 129 @45603 has 2 MA's), (139, 45570),

Gene: Acme_80 Start: 48839, Stop: 48540, Start Num: 106

Candidate Starts for Acme_80:

(Start: 89 @48869 has 1 MA's), (Start: 106 @48839 has 188 MA's), (127, 48794), (Start: 129 @48791 has 2 MA's), (147, 48722), (153, 48671),

Gene: Acolyte_77 Start: 46676, Stop: 46365, Start Num: 85

Candidate Starts for Acolyte_77:

(Start: 85 @46676 has 1 MA's),

Gene: Adahisdi_72 Start: 46838, Stop: 46539, Start Num: 106

Candidate Starts for Adahisdi_72:

(71, 46898), (Start: 106 @46838 has 188 MA's), (127, 46793), (Start: 129 @46790 has 2 MA's), (147, 46721), (153, 46670),

Gene: Aeneas_81 Start: 49127, Stop: 48828, Start Num: 106

Candidate Starts for Aeneas_81:

(Start: 89 @49157 has 1 MA's), (Start: 106 @49127 has 188 MA's), (127, 49082), (Start: 129 @49079 has 2 MA's), (147, 49010), (153, 48959),

Gene: Agaliana_74 Start: 45656, Stop: 45357, Start Num: 106

Candidate Starts for Agaliana_74:

(71, 45716), (Start: 106 @45656 has 188 MA's), (127, 45611), (Start: 129 @45608 has 2 MA's), (147, 45539), (153, 45488),

Gene: Agape74_85 Start: 47954, Stop: 47646, Start Num: 70

Candidate Starts for Agape74_85:

(Start: 70 @47954 has 146 MA's), (Start: 72 @47951 has 38 MA's), (111, 47888), (157, 47729),

Gene: AgentM_70 Start: 44113, Stop: 43817, Start Num: 97

Candidate Starts for AgentM_70:

(Start: 97 @44113 has 14 MA's), (Start: 110 @44092 has 1 MA's),

Gene: Airmid_73 Start: 44940, Stop: 44644, Start Num: 100

Candidate Starts for Airmid_73:

(Start: 100 @44940 has 2 MA's), (Start: 107 @44928 has 8 MA's), (150, 44796), (153, 44772),

Gene: Ajay_73 Start: 46039, Stop: 45740, Start Num: 106

Candidate Starts for Ajay_73:

(71, 46099), (Start: 106 @46039 has 188 MA's), (127, 45994), (Start: 129 @45991 has 2 MA's), (147, 45922), (153, 45871),

Gene: Albee_75 Start: 45647, Stop: 45348, Start Num: 70

Candidate Starts for Albee_75:

(Start: 70 @45647 has 146 MA's), (Start: 103 @45605 has 3 MA's),

Gene: Alberto7_76 Start: 45984, Stop: 45685, Start Num: 70

Candidate Starts for Alberto7_76:

(Start: 70 @45984 has 146 MA's), (Start: 103 @45942 has 3 MA's),

Gene: Aliter_80 Start: 45087, Stop: 44821, Start Num: 116

Candidate Starts for Aliter_80:

(Start: 109 @45105 has 32 MA's), (Start: 116 @45087 has 17 MA's), (127, 45066), (150, 44970),

Gene: Alma_85 Start: 47927, Stop: 47664, Start Num: 116

Candidate Starts for Alma_85:

(Start: 109 @47945 has 32 MA's), (Start: 116 @47927 has 17 MA's), (127, 47906), (150, 47810),

Gene: Alsfro_83 Start: 47402, Stop: 47103, Start Num: 106

Candidate Starts for Alsfro_83:

(71, 47462), (Start: 106 @47402 has 188 MA's), (127, 47357), (Start: 129 @47354 has 2 MA's), (147, 47285), (153, 47234),

Gene: Altman_79 Start: 47847, Stop: 47548, Start Num: 106

Candidate Starts for Altman_79:

(Start: 102 @47853 has 15 MA's), (Start: 106 @47847 has 188 MA's), (127, 47802), (Start: 129 @47799 has 2 MA's), (147, 47730), (153, 47679),

Gene: Alvin_74 Start: 46259, Stop: 45960, Start Num: 106

Candidate Starts for Alvin_74:

(71, 46319), (Start: 106 @46259 has 188 MA's), (127, 46214), (Start: 129 @46211 has 2 MA's), (147, 46142), (153, 46091),

Gene: Anglerfish_78 Start: 48170, Stop: 47871, Start Num: 106

Candidate Starts for Anglerfish_78:

(71, 48230), (Start: 106 @48170 has 188 MA's), (127, 48125), (Start: 129 @48122 has 2 MA's), (147, 48053), (153, 48002),

Gene: AnnaL29_85 Start: 48114, Stop: 47815, Start Num: 72

Candidate Starts for AnnaL29_85:

(Start: 72 @48114 has 38 MA's), (81, 48102), (Start: 85 @48099 has 1 MA's), (87, 48096), (Start: 101 @48075 has 18 MA's), (111, 48054),

Gene: Annyong_74 Start: 45692, Stop: 45393, Start Num: 70

Candidate Starts for Annyong_74:

(Start: 70 @45692 has 146 MA's), (Start: 103 @45650 has 3 MA's),

Gene: Anselm_84 Start: 47862, Stop: 47560, Start Num: 72

Candidate Starts for Anselm_84:

(Start: 72 @47862 has 38 MA's), (Start: 101 @47823 has 18 MA's), (Start: 105 @47817 has 5 MA's), (157, 47643),

Gene: Applejack_75 Start: 45021, Stop: 44722, Start Num: 106

Candidate Starts for Applejack_75:

(30, 45228), (35, 45201), (44, 45159), (45, 45156), (53, 45129), (60, 45117), (64, 45108), (Start: 68 @45093 has 5 MA's), (94, 45039), (Start: 106 @45021 has 188 MA's), (127, 44976), (Start: 129 @44973 has 2 MA's), (147, 44904), (153, 44853),

Gene: Aragog_70 Start: 44131, Stop: 43835, Start Num: 97

Candidate Starts for Aragog_70:

(Start: 97 @44131 has 14 MA's), (Start: 110 @44110 has 1 MA's), (155, 43951),

Gene: Arcanine_80 Start: 48772, Stop: 48473, Start Num: 106

Candidate Starts for Arcanine_80:

(71, 48832), (Start: 106 @48772 has 188 MA's), (127, 48727), (Start: 129 @48724 has 2 MA's), (147, 48655), (153, 48604),

Gene: ArcherNM_78 Start: 47236, Stop: 46946, Start Num: 102

Candidate Starts for ArcherNM_78:

(Start: 102 @47236 has 15 MA's), (114, 47215), (Start: 116 @47212 has 17 MA's),

Gene: Archetta_68 Start: 44079, Stop: 43762, Start Num: 95

Candidate Starts for Archetta_68:

(66, 44151), (84, 44100), (90, 44091), (Start: 95 @44079 has 7 MA's), (Start: 100 @44073 has 2 MA's), (119, 44037), (126, 44025),

Gene: Arissanae_82 Start: 47825, Stop: 47556, Start Num: 109

Candidate Starts for Arissanae_82:

(Start: 109 @47825 has 32 MA's), (Start: 116 @47807 has 17 MA's), (127, 47786), (Start: 129 @47783 has 2 MA's), (151, 47687),

Gene: Arlo_76 Start: 47562, Stop: 47263, Start Num: 106

Candidate Starts for Arlo_76:

(Start: 89 @47592 has 1 MA's), (Start: 106 @47562 has 188 MA's), (127, 47517), (Start: 129 @47514 has 2 MA's), (147, 47445), (153, 47394),

Gene: Artemis2UCLA_83 Start: 45479, Stop: 45216, Start Num: 101

Candidate Starts for Artemis2UCLA_83:

(21, 45779), (26, 45722), (27, 45719), (31, 45674), (67, 45551), (Start: 101 @45479 has 18 MA's), (Start: 110 @45467 has 1 MA's), (112, 45461), (Start: 129 @45422 has 2 MA's),

Gene: Arturo_72 Start: 45775, Stop: 45476, Start Num: 70

Candidate Starts for Arturo_72:

(Start: 70 @45775 has 146 MA's), (Start: 103 @45733 has 3 MA's),

Gene: Ashballer_78 Start: 47615, Stop: 47316, Start Num: 106

Candidate Starts for Ashballer_78:

(Start: 106 @47615 has 188 MA's), (127, 47570), (Start: 129 @47567 has 2 MA's), (147, 47498), (148, 47486), (153, 47447),

Gene: Atkinbua_82 Start: 48174, Stop: 47875, Start Num: 106

Candidate Starts for Atkinbua_82:

(99, 48180), (Start: 106 @48174 has 188 MA's), (127, 48129), (Start: 129 @48126 has 2 MA's), (147, 48057), (153, 48006),

Gene: AvatarAhPeg_74 Start: 45580, Stop: 45284, Start Num: 69

Candidate Starts for AvatarAhPeg_74:

(Start: 69 @45580 has 5 MA's), (Start: 101 @45559 has 18 MA's), (Start: 110 @45541 has 1 MA's), (138, 45472), (160, 45373),

Gene: Avle17_75 Start: 45641, Stop: 45342, Start Num: 70

Candidate Starts for Avle17_75:

(Start: 70 @45641 has 146 MA's), (Start: 103 @45599 has 3 MA's),

Gene: BABullseye_76 Start: 43895, Stop: 43605, Start Num: 70

Candidate Starts for BABullseye_76:

(29, 44039), (33, 44009), (50, 43943), (Start: 52 @43937 has 1 MA's), (Start: 70 @43895 has 146 MA's), (Start: 103 @43853 has 3 MA's), (Start: 105 @43850 has 5 MA's), (Start: 108 @43844 has 1 MA's), (Start: 109 @43841 has 32 MA's), (112, 43832), (139, 43775),

Gene: BK1_70 Start: 44506, Stop: 44207, Start Num: 106

Candidate Starts for BK1_70:

(Start: 106 @44506 has 188 MA's), (127, 44461), (Start: 129 @44458 has 2 MA's), (147, 44389), (153, 44338),

Gene: BPBiabs31_81 Start: 48674, Stop: 48375, Start Num: 106

Candidate Starts for BPBiabs31_81:

(Start: 89 @48704 has 1 MA's), (Start: 106 @48674 has 188 MA's), (127, 48629), (Start: 129 @48626 has 2 MA's), (147, 48557), (153, 48506),

Gene: Baby16_75 Start: 45658, Stop: 45359, Start Num: 70

Candidate Starts for Baby16_75:

(Start: 70 @45658 has 146 MA's), (Start: 103 @45616 has 3 MA's),

Gene: BabyBack_76 Start: 47069, Stop: 46782, Start Num: 97

Candidate Starts for BabyBack_76:

(Start: 76 @47102 has 2 MA's), (87, 47087), (Start: 97 @47069 has 14 MA's), (Start: 103 @47063 has 3 MA's), (Start: 108 @47054 has 1 MA's), (112, 47042), (149, 46934), (154, 46898), (159, 46868),

Gene: Backyardigan_72 Start: 45744, Stop: 45427, Start Num: 47

Candidate Starts for Backyardigan_72:

(Start: 46 @45747 has 2 MA's), (Start: 47 @45744 has 12 MA's), (Start: 54 @45729 has 1 MA's), (75, 45693), (Start: 110 @45678 has 1 MA's), (Start: 129 @45639 has 2 MA's), (139, 45606),

Gene: BaconJack_78 Start: 48829, Stop: 48530, Start Num: 106

Candidate Starts for BaconJack_78:

(Start: 89 @48859 has 1 MA's), (Start: 106 @48829 has 188 MA's), (127, 48784), (Start: 129 @48781 has 2 MA's), (147, 48712),

Gene: Bactobuster_74 Start: 46579, Stop: 46271, Start Num: 70

Candidate Starts for Bactobuster_74:

(Start: 70 @46579 has 146 MA's), (Start: 103 @46537 has 3 MA's), (Start: 129 @46477 has 2 MA's),

Gene: Badger_73 Start: 45691, Stop: 45395, Start Num: 56

Candidate Starts for Badger_73:

(Start: 46 @45712 has 2 MA's), (Start: 47 @45709 has 12 MA's), (Start: 56 @45691 has 2 MA's), (57, 45688), (75, 45658), (Start: 110 @45646 has 1 MA's), (Start: 129 @45607 has 2 MA's), (139, 45574),

Gene: Baehexic_82 Start: 47345, Stop: 47034, Start Num: 72

Candidate Starts for Baehexic_82:

(Start: 72 @47345 has 38 MA's), (79, 47333), (Start: 101 @47303 has 18 MA's), (Start: 105 @47297 has 5 MA's), (111, 47282),

Gene: BangNhom_72 Start: 46084, Stop: 45785, Start Num: 70

Candidate Starts for BangNhom_72:

(Start: 70 @46084 has 146 MA's), (Start: 103 @46042 has 3 MA's),

Gene: Barriga_83 Start: 47568, Stop: 47269, Start Num: 106

Candidate Starts for Barriga_83:

(30, 47775), (35, 47748), (44, 47706), (45, 47703), (53, 47676), (60, 47664), (64, 47655), (Start: 68 @47640 has 5 MA's), (94, 47586), (Start: 106 @47568 has 188 MA's), (127, 47523), (Start: 129 @47520 has 2 MA's), (147, 47451), (153, 47400),

Gene: Bartimeaus_75 Start: 45649, Stop: 45350, Start Num: 70

Candidate Starts for Bartimeaus_75:

(Start: 70 @45649 has 146 MA's), (Start: 103 @45607 has 3 MA's),

Gene: Batiatus_39 Start: 31386, Stop: 31150, Start Num: 106

Candidate Starts for Batiatus_39:

(Start: 106 @31386 has 188 MA's), (127, 31341), (Start: 129 @31338 has 2 MA's), (147, 31269), (153, 31218),

Gene: Beatrix_73 Start: 46834, Stop: 46535, Start Num: 106

Candidate Starts for Beatrix_73:

(71, 46894), (Start: 106 @46834 has 188 MA's), (127, 46789), (Start: 129 @46786 has 2 MA's), (147, 46717), (153, 46666),

Gene: Beemo_87 Start: 47921, Stop: 47658, Start Num: 116

Candidate Starts for Beemo_87:

(Start: 109 @47939 has 32 MA's), (Start: 116 @47921 has 17 MA's), (127, 47900), (150, 47804),

Gene: BeesKnees_77 Start: 45937, Stop: 45638, Start Num: 106

Candidate Starts for BeesKnees_77:

(71, 45997), (Start: 106 @45937 has 188 MA's), (127, 45892), (Start: 129 @45889 has 2 MA's), (147, 45820), (153, 45769),

Gene: BellusTerra_76 Start: 45688, Stop: 45389, Start Num: 70

Candidate Starts for BellusTerra_76:

(Start: 70 @45688 has 146 MA's), (Start: 103 @45646 has 3 MA's),

Gene: Benedict_74 Start: 44660, Stop: 44376, Start Num: 107

Candidate Starts for Benedict_74:

(Start: 100 @44672 has 2 MA's), (Start: 107 @44660 has 8 MA's), (121, 44633), (150, 44528), (153, 44504),

Gene: Benvolio_82 Start: 47539, Stop: 47231, Start Num: 70

Candidate Starts for Benvolio_82:

(10, 48016), (14, 47887), (24, 47737), (38, 47632), (Start: 70 @47539 has 146 MA's), (Start: 72 @47536 has 38 MA's), (Start: 101 @47494 has 18 MA's), (Start: 105 @47488 has 5 MA's), (157, 47314),

Gene: Bethlehem_79 Start: 49714, Stop: 49415, Start Num: 106

Candidate Starts for Bethlehem_79:

(Start: 89 @49744 has 1 MA's), (Start: 106 @49714 has 188 MA's), (127, 49669), (Start: 129 @49666 has 2 MA's), (147, 49597), (153, 49546),

Gene: Bexan_71 Start: 46608, Stop: 46309, Start Num: 106

Candidate Starts for Bexan_71:

(71, 46668), (Start: 106 @46608 has 188 MA's), (127, 46563), (Start: 129 @46560 has 2 MA's), (147, 46491), (153, 46440),

Gene: BiancaTri92_81 Start: 47402, Stop: 47094, Start Num: 70

Candidate Starts for BiancaTri92_81:

(43, 47492), (Start: 70 @47402 has 146 MA's), (Start: 72 @47399 has 38 MA's), (Start: 101 @47357 has 18 MA's), (111, 47336),

Gene: Big3_77 Start: 48641, Stop: 48342, Start Num: 106

Candidate Starts for Big3_77:

(94, 48659), (Start: 106 @48641 has 188 MA's), (127, 48596), (Start: 129 @48593 has 2 MA's), (147, 48524), (153, 48473),

Gene: BigMau_79 Start: 48424, Stop: 48125, Start Num: 106

Candidate Starts for BigMau_79:

(71, 48484), (Start: 106 @48424 has 188 MA's), (127, 48379), (Start: 129 @48376 has 2 MA's), (147, 48307), (153, 48256),

Gene: BigPaolini_74 Start: 45813, Stop: 45508, Start Num: 102

Candidate Starts for BigPaolini_74:

(Start: 102 @45813 has 15 MA's), (Start: 106 @45807 has 188 MA's), (127, 45762), (Start: 129 @45759 has 2 MA's), (147, 45690), (153, 45639),

Gene: Bigfoot_71 Start: 46904, Stop: 46605, Start Num: 106

Candidate Starts for Bigfoot_71:

(71, 46964), (Start: 106 @46904 has 188 MA's), (127, 46859), (Start: 129 @46856 has 2 MA's), (147, 46787), (153, 46736),

Gene: BillKnuckles_70 Start: 46811, Stop: 46512, Start Num: 106

Candidate Starts for BillKnuckles_70:

(71, 46871), (Start: 106 @46811 has 188 MA's), (127, 46766), (Start: 129 @46763 has 2 MA's), (147, 46694), (153, 46643),

Gene: Bircsak_77 Start: 49499, Stop: 49200, Start Num: 106

Candidate Starts for Bircsak_77:

(71, 49559), (Start: 106 @49499 has 188 MA's), (127, 49454), (Start: 129 @49451 has 2 MA's), (147, 49382), (153, 49331),

Gene: Blackmoor_74 Start: 45649, Stop: 45350, Start Num: 70

Candidate Starts for Blackmoor_74:

(Start: 70 @45649 has 146 MA's), (Start: 103 @45607 has 3 MA's),

Gene: Blinn1_87 Start: 46595, Stop: 46263, Start Num: 52

Candidate Starts for Blinn1_87:

(29, 46697), (33, 46667), (50, 46601), (Start: 52 @46595 has 1 MA's), (Start: 70 @46553 has 146 MA's), (Start: 105 @46508 has 5 MA's), (Start: 108 @46502 has 1 MA's), (Start: 109 @46499 has 32 MA's), (112, 46490),

Gene: BluSpix_73 Start: 42393, Stop: 42064, Start Num: 89

Candidate Starts for BluSpix_73:

(Start: 89 @42393 has 1 MA's), (Start: 106 @42363 has 188 MA's), (127, 42318), (Start: 129 @42315 has 2 MA's), (147, 42246), (153, 42195),

Gene: Blue_73 Start: 46715, Stop: 46416, Start Num: 106

Candidate Starts for Blue_73:

(71, 46775), (Start: 106 @46715 has 188 MA's), (127, 46670), (Start: 129 @46667 has 2 MA's), (147, 46598), (153, 46547),

Gene: Blue7_85 Start: 45698, Stop: 45435, Start Num: 101

Candidate Starts for Blue7_85:

(21, 45998), (26, 45941), (27, 45938), (31, 45893), (67, 45770), (Start: 101 @45698 has 18 MA's), (Start: 110 @45686 has 1 MA's), (112, 45680), (Start: 129 @45641 has 2 MA's),

Gene: Bluefalcon_66 Start: 44078, Stop: 43782, Start Num: 95

Candidate Starts for Bluefalcon_66:

(66, 44150), (84, 44099), (90, 44090), (Start: 95 @44078 has 7 MA's), (Start: 100 @44072 has 2 MA's), (119, 44036), (126, 44024),

Gene: Bob3_77 Start: 47691, Stop: 47392, Start Num: 106

Candidate Starts for Bob3_77:

(71, 47751), (Start: 106 @47691 has 188 MA's), (127, 47646), (Start: 129 @47643 has 2 MA's), (147, 47574), (153, 47523),

Gene: BobSwaget_77 Start: 45351, Stop: 45037, Start Num: 68

Candidate Starts for BobSwaget_77:

(Start: 68 @45351 has 5 MA's), (92, 45324), (Start: 97 @45315 has 14 MA's),

Gene: BogosyJay_86 Start: 47989, Stop: 47711, Start Num: 109

Candidate Starts for BogosyJay_86:

(Start: 109 @47989 has 32 MA's), (127, 47950),

Gene: Bombshell_75 Start: 45644, Stop: 45345, Start Num: 70

Candidate Starts for Bombshell_75:

(Start: 70 @45644 has 146 MA's), (Start: 103 @45602 has 3 MA's),

Gene: Bonamassa_70 Start: 44301, Stop: 43999, Start Num: 93

Candidate Starts for Bonamassa_70:

(Start: 93 @44301 has 6 MA's), (Start: 110 @44274 has 1 MA's), (112, 44268), (155, 44115),

Gene: Bones_72 Start: 46997, Stop: 46698, Start Num: 106

Candidate Starts for Bones_72:

(71, 47057), (Start: 106 @46997 has 188 MA's), (127, 46952), (Start: 129 @46949 has 2 MA's), (147, 46880), (153, 46829),

Gene: Briton15_79 Start: 48077, Stop: 47778, Start Num: 106

Candidate Starts for Briton15_79:

(71, 48137), (Start: 106 @48077 has 188 MA's), (127, 48032), (Start: 129 @48029 has 2 MA's), (147, 47960), (153, 47909),

Gene: Broseidon_75 Start: 45650, Stop: 45351, Start Num: 70

Candidate Starts for Broseidon_75:

(Start: 70 @45650 has 146 MA's), (Start: 103 @45608 has 3 MA's),

Gene: Bruiser_74 Start: 45647, Stop: 45348, Start Num: 70

Candidate Starts for Bruiser_74:

(Start: 70 @45647 has 146 MA's), (Start: 103 @45605 has 3 MA's),

Gene: Bruns_79 Start: 46940, Stop: 46641, Start Num: 106

Candidate Starts for Bruns_79:

(71, 47000), (Start: 106 @46940 has 188 MA's), (127, 46895), (Start: 129 @46892 has 2 MA's), (147, 46823), (153, 46772),

Gene: BubbleTrouble_74 Start: 45674, Stop: 45375, Start Num: 70

Candidate Starts for BubbleTrouble_74:

(Start: 70 @45674 has 146 MA's), (Start: 103 @45632 has 3 MA's),

Gene: Bumblebee11_73 Start: 45711, Stop: 45397, Start Num: 46

Candidate Starts for Bumblebee11_73:

(Start: 46 @45711 has 2 MA's), (Start: 47 @45708 has 12 MA's), (Start: 56 @45690 has 2 MA's), (57, 45687), (75, 45657), (Start: 110 @45645 has 1 MA's), (Start: 129 @45606 has 2 MA's), (139, 45573),

Gene: Burger_73 Start: 45647, Stop: 45348, Start Num: 70
Candidate Starts for Burger_73:
(Start: 70 @45647 has 146 MA's), (Start: 103 @45605 has 3 MA's),

Gene: Burton_77 Start: 49106, Stop: 48807, Start Num: 106
Candidate Starts for Burton_77:
(Start: 89 @49136 has 1 MA's), (Start: 106 @49106 has 188 MA's), (127, 49061), (Start: 129 @49058 has 2 MA's), (147, 48989), (153, 48938),

Gene: Buttons_73 Start: 45207, Stop: 44908, Start Num: 106
Candidate Starts for Buttons_73:
(Start: 106 @45207 has 188 MA's), (127, 45162), (Start: 129 @45159 has 2 MA's), (147, 45090), (153, 45039),

Gene: Bxb1_70 Start: 45323, Stop: 45024, Start Num: 106
Candidate Starts for Bxb1_70:
(Start: 106 @45323 has 188 MA's), (127, 45278), (Start: 129 @45275 has 2 MA's), (147, 45206), (153, 45155),

Gene: CRB1_84 Start: 47974, Stop: 47651, Start Num: 70
Candidate Starts for CRB1_84:
(Start: 70 @47974 has 146 MA's), (111, 47908), (133, 47866),

Gene: CactusRose_79 Start: 47921, Stop: 47622, Start Num: 106
Candidate Starts for CactusRose_79:
(71, 47981), (Start: 106 @47921 has 188 MA's), (127, 47876), (Start: 129 @47873 has 2 MA's), (147, 47804), (153, 47753),

Gene: Caelakin_73 Start: 45647, Stop: 45348, Start Num: 70
Candidate Starts for Caelakin_73:
(Start: 70 @45647 has 146 MA's), (Start: 103 @45605 has 3 MA's),

Gene: Camperdownii_73 Start: 45334, Stop: 45020, Start Num: 47
Candidate Starts for Camperdownii_73:
(Start: 46 @45337 has 2 MA's), (Start: 47 @45334 has 12 MA's), (Start: 56 @45316 has 2 MA's), (57, 45313), (Start: 110 @45271 has 1 MA's), (Start: 129 @45232 has 2 MA's),

Gene: Candra_81 Start: 45632, Stop: 45300, Start Num: 52
Candidate Starts for Candra_81:
(29, 45734), (33, 45704), (50, 45638), (Start: 52 @45632 has 1 MA's), (Start: 70 @45590 has 146 MA's), (Start: 103 @45548 has 3 MA's), (Start: 105 @45545 has 5 MA's), (Start: 108 @45539 has 1 MA's), (Start: 109 @45536 has 32 MA's), (112, 45527), (139, 45470), (144, 45455),

Gene: Carlyle_77 Start: 46395, Stop: 46096, Start Num: 106
Candidate Starts for Carlyle_77:
(71, 46455), (Start: 106 @46395 has 188 MA's), (127, 46350), (Start: 129 @46347 has 2 MA's), (147, 46278), (153, 46227),

Gene: Catalina_89 Start: 48034, Stop: 47768, Start Num: 116
Candidate Starts for Catalina_89:
(Start: 109 @48052 has 32 MA's), (Start: 116 @48034 has 17 MA's), (127, 48013), (150, 47917),

Gene: Centaur_83 Start: 47223, Stop: 46912, Start Num: 72
Candidate Starts for Centaur_83:
(Start: 72 @47223 has 38 MA's), (79, 47211), (Start: 101 @47181 has 18 MA's), (Start: 105 @47175 has 5 MA's), (111, 47160),

Gene: CentreCat_75 Start: 45687, Stop: 45388, Start Num: 70
Candidate Starts for CentreCat_75:
(Start: 70 @45687 has 146 MA's), (Start: 103 @45645 has 3 MA's),

Gene: Cerulean_77 Start: 46085, Stop: 45786, Start Num: 70
Candidate Starts for Cerulean_77:
(Start: 70 @46085 has 146 MA's), (Start: 103 @46043 has 3 MA's),

Gene: Chadwick_74 Start: 44404, Stop: 44120, Start Num: 107
Candidate Starts for Chadwick_74:
(Start: 100 @44416 has 2 MA's), (Start: 107 @44404 has 8 MA's), (121, 44377), (150, 44272), (153, 44248),

Gene: ChampagnePapi_78 Start: 46087, Stop: 45785, Start Num: 70
Candidate Starts for ChampagnePapi_78:
(Start: 70 @46087 has 146 MA's), (Start: 103 @46045 has 3 MA's), (139, 45967),

Gene: Chanagan_71 Start: 45356, Stop: 45057, Start Num: 106
Candidate Starts for Chanagan_71:
(71, 45416), (Start: 106 @45356 has 188 MA's), (127, 45311), (Start: 129 @45308 has 2 MA's), (147, 45239), (153, 45188),

Gene: Changeling_82 Start: 47917, Stop: 47612, Start Num: 72
Candidate Starts for Changeling_82:
(Start: 72 @47917 has 38 MA's), (81, 47905), (Start: 85 @47902 has 1 MA's), (87, 47899), (Start: 101 @47878 has 18 MA's), (111, 47857),

Gene: Chaph_75 Start: 45658, Stop: 45359, Start Num: 70
Candidate Starts for Chaph_75:
(Start: 70 @45658 has 146 MA's), (Start: 103 @45616 has 3 MA's),

Gene: Chargerpower_83 Start: 45994, Stop: 45686, Start Num: 109
Candidate Starts for Chargerpower_83:
(28, 46240), (Start: 109 @45994 has 32 MA's), (130, 45949), (131, 45946), (150, 45856),

Gene: Charm_82 Start: 47297, Stop: 47064, Start Num: 129
Candidate Starts for Charm_82:
(28, 47579), (Start: 109 @47333 has 32 MA's), (Start: 129 @47297 has 2 MA's),

Gene: Chartreuse_80 Start: 44847, Stop: 44611, Start Num: 109
Candidate Starts for Chartreuse_80:
(29, 45045), (33, 45015), (50, 44949), (Start: 52 @44943 has 1 MA's), (Start: 70 @44901 has 146 MA's), (Start: 103 @44859 has 3 MA's), (Start: 105 @44856 has 5 MA's), (Start: 108 @44850 has 1 MA's), (Start: 109 @44847 has 32 MA's), (112, 44838), (139, 44781),

Gene: ChipMunk_84 Start: 48884, Stop: 48579, Start Num: 70
Candidate Starts for ChipMunk_84:

(Start: 70 @48884 has 146 MA's), (Start: 101 @48845 has 18 MA's), (Start: 105 @48839 has 5 MA's), (157, 48665),

Gene: Chupacabra_80 Start: 48379, Stop: 48086, Start Num: 102
Candidate Starts for Chupacabra_80:
(16, 48739), (23, 48643), (Start: 102 @48379 has 15 MA's), (131, 48325),

Gene: Ciao_73 Start: 45516, Stop: 45217, Start Num: 106
Candidate Starts for Ciao_73:
(71, 45576), (Start: 106 @45516 has 188 MA's), (127, 45471), (Start: 129 @45468 has 2 MA's), (147, 45399), (153, 45348),

Gene: Cici_74 Start: 45723, Stop: 45412, Start Num: 47
Candidate Starts for Cici_74:
(Start: 46 @45726 has 2 MA's), (Start: 47 @45723 has 12 MA's), (Start: 56 @45705 has 2 MA's), (57, 45702), (75, 45672), (Start: 110 @45660 has 1 MA's), (Start: 129 @45621 has 2 MA's), (139, 45588),

Gene: Cindaradix_70 Start: 45542, Stop: 45246, Start Num: 69
Candidate Starts for Cindaradix_70:
(Start: 69 @45542 has 5 MA's), (Start: 101 @45521 has 18 MA's), (Start: 110 @45503 has 1 MA's),

Gene: Cintron_76 Start: 45786, Stop: 45499, Start Num: 77
Candidate Starts for Cintron_76:
(20, 46035), (34, 45912), (63, 45819), (Start: 68 @45804 has 5 MA's), (Start: 69 @45801 has 5 MA's), (Start: 77 @45786 has 1 MA's),

Gene: Citius_75 Start: 45668, Stop: 45369, Start Num: 70
Candidate Starts for Citius_75:
(Start: 70 @45668 has 146 MA's), (Start: 103 @45626 has 3 MA's),

Gene: Clarenza_74 Start: 45644, Stop: 45345, Start Num: 70
Candidate Starts for Clarenza_74:
(Start: 70 @45644 has 146 MA's), (Start: 103 @45602 has 3 MA's),

Gene: CloudWang3_84 Start: 46008, Stop: 45697, Start Num: 101
Candidate Starts for CloudWang3_84:
(12, 46461), (25, 46254), (27, 46248), (67, 46080), (Start: 101 @46008 has 18 MA's), (Start: 109 @45990 has 32 MA's), (Start: 110 @45987 has 1 MA's), (111, 45984), (115, 45972), (Start: 116 @45966 has 17 MA's), (118, 45963), (Start: 129 @45942 has 2 MA's), (137, 45906),

Gene: Cocoaberry_75 Start: 45648, Stop: 45349, Start Num: 70
Candidate Starts for Cocoaberry_75:
(Start: 70 @45648 has 146 MA's), (Start: 103 @45606 has 3 MA's),

Gene: Colin_82 Start: 48298, Stop: 47996, Start Num: 72
Candidate Starts for Colin_82:
(Start: 72 @48298 has 38 MA's),

Gene: Commander_73 Start: 45645, Stop: 45346, Start Num: 70
Candidate Starts for Commander_73:
(Start: 70 @45645 has 146 MA's), (Start: 103 @45603 has 3 MA's),

Gene: Conceptll_81 Start: 48948, Stop: 48649, Start Num: 106

Candidate Starts for ConceptII_81:

(99, 48954), (Start: 106 @48948 has 188 MA's), (127, 48903), (Start: 129 @48900 has 2 MA's), (147, 48831), (153, 48780),

Gene: Connomayer_75 Start: 45647, Stop: 45348, Start Num: 70

Candidate Starts for Connomayer_75:

(Start: 70 @45647 has 146 MA's), (Start: 103 @45605 has 3 MA's),

Gene: Conquerage_85 Start: 47696, Stop: 47433, Start Num: 116

Candidate Starts for Conquerage_85:

(Start: 109 @47714 has 32 MA's), (Start: 116 @47696 has 17 MA's), (127, 47675), (150, 47579),

Gene: Conspiracy_71 Start: 44353, Stop: 44057, Start Num: 97

Candidate Starts for Conspiracy_71:

(Start: 97 @44353 has 14 MA's), (Start: 110 @44332 has 1 MA's), (155, 44173),

Gene: Coog_67 Start: 44122, Stop: 43820, Start Num: 93

Candidate Starts for Coog_67:

(Start: 93 @44122 has 6 MA's), (123, 44071), (124, 44068), (152, 43960), (155, 43936),

Gene: Cookiedough_83 Start: 46208, Stop: 45918, Start Num: 70

Candidate Starts for Cookiedough_83:

(29, 46352), (33, 46322), (50, 46256), (Start: 52 @46250 has 1 MA's), (Start: 70 @46208 has 146 MA's), (Start: 103 @46166 has 3 MA's), (Start: 105 @46163 has 5 MA's), (Start: 108 @46157 has 1 MA's), (Start: 109 @46154 has 32 MA's), (112, 46145), (139, 46088),

Gene: Corvo_78 Start: 48597, Stop: 48298, Start Num: 106

Candidate Starts for Corvo_78:

(Start: 89 @48627 has 1 MA's), (Start: 106 @48597 has 188 MA's), (127, 48552), (Start: 129 @48549 has 2 MA's), (147, 48480), (153, 48429),

Gene: Crispicous1_71 Start: 45038, Stop: 44739, Start Num: 106

Candidate Starts for Crispicous1_71:

(71, 45098), (Start: 106 @45038 has 188 MA's), (127, 44993), (Start: 129 @44990 has 2 MA's), (147, 44921), (153, 44870),

Gene: Crucio_83 Start: 47825, Stop: 47466, Start Num: 72

Candidate Starts for Crucio_83:

(Start: 72 @47825 has 38 MA's), (Start: 105 @47777 has 5 MA's), (111, 47762), (161, 47552),

Gene: Cuco_69 Start: 43982, Stop: 43680, Start Num: 93

Candidate Starts for Cuco_69:

(Start: 93 @43982 has 6 MA's), (123, 43931), (124, 43928), (152, 43820), (155, 43796),

Gene: DD5_74 Start: 47123, Stop: 46824, Start Num: 106

Candidate Starts for DD5_74:

(71, 47183), (Start: 106 @47123 has 188 MA's), (127, 47078), (Start: 129 @47075 has 2 MA's), (147, 47006), (153, 46955),

Gene: DaVinci_81 Start: 44955, Stop: 44665, Start Num: 70

Candidate Starts for DaVinci_81:

(29, 45099), (33, 45069), (50, 45003), (Start: 52 @44997 has 1 MA's), (Start: 70 @44955 has 146 MA's), (Start: 103 @44913 has 3 MA's), (Start: 105 @44910 has 5 MA's), (Start: 108 @44904 has 1

MA's), (Start: 109 @44901 has 32 MA's), (112, 44892), (139, 44835),

Gene: Dalmatian_83 Start: 47647, Stop: 47291, Start Num: 72

Candidate Starts for Dalmatian_83:

(Start: 72 @47647 has 38 MA's), (Start: 105 @47602 has 5 MA's), (111, 47587), (161, 47377),

Gene: Darrell_85 Start: 47124, Stop: 46864, Start Num: 116

Candidate Starts for Darrell_85:

(Start: 109 @47142 has 32 MA's), (Start: 116 @47124 has 17 MA's), (127, 47103),

Gene: DarthPhader_78 Start: 46974, Stop: 46699, Start Num: 105

Candidate Starts for DarthPhader_78:

(48, 47103), (62, 47070), (65, 47061), (Start: 105 @46974 has 5 MA's), (114, 46953), (127, 46929), (132, 46917),

Gene: Datway_74 Start: 45727, Stop: 45410, Start Num: 47

Candidate Starts for Datway_74:

(Start: 46 @45730 has 2 MA's), (Start: 47 @45727 has 12 MA's), (Start: 54 @45712 has 1 MA's), (75, 45676), (Start: 110 @45661 has 1 MA's), (Start: 129 @45622 has 2 MA's), (139, 45589),

Gene: Deano_72 Start: 45655, Stop: 45356, Start Num: 70

Candidate Starts for Deano_72:

(Start: 70 @45655 has 146 MA's), (Start: 103 @45613 has 3 MA's),

Gene: Dexes_77 Start: 49539, Stop: 49240, Start Num: 106

Candidate Starts for Dexes_77:

(30, 49746), (35, 49719), (44, 49677), (45, 49674), (53, 49647), (60, 49635), (64, 49626), (Start: 68 @49611 has 5 MA's), (94, 49557), (Start: 106 @49539 has 188 MA's), (127, 49494), (Start: 129 @49491 has 2 MA's), (147, 49422), (153, 49371),

Gene: Dhanush_75 Start: 45650, Stop: 45351, Start Num: 70

Candidate Starts for Dhanush_75:

(Start: 70 @45650 has 146 MA's), (Start: 103 @45608 has 3 MA's),

Gene: Dignity_85 Start: 48061, Stop: 47753, Start Num: 70

Candidate Starts for Dignity_85:

(Start: 70 @48061 has 146 MA's), (Start: 72 @48058 has 38 MA's), (Start: 105 @48010 has 5 MA's), (111, 47995), (157, 47836),

Gene: DirtyDunning_74 Start: 45659, Stop: 45360, Start Num: 70

Candidate Starts for DirtyDunning_74:

(Start: 70 @45659 has 146 MA's), (Start: 103 @45617 has 3 MA's),

Gene: Discoknowium_68 Start: 43870, Stop: 43574, Start Num: 97

Candidate Starts for Discoknowium_68:

(Start: 97 @43870 has 14 MA's), (Start: 110 @43849 has 1 MA's), (155, 43690),

Gene: Doom_69 Start: 45750, Stop: 45451, Start Num: 106

Candidate Starts for Doom_69:

(Start: 102 @45756 has 15 MA's), (Start: 106 @45750 has 188 MA's), (127, 45705), (Start: 129 @45702 has 2 MA's), (147, 45633), (153, 45582),

Gene: Dorothea_80 Start: 46243, Stop: 45911, Start Num: 52

Candidate Starts for Dorothea_80:

(29, 46345), (33, 46315), (50, 46249), (Start: 52 @46243 has 1 MA's), (Start: 70 @46201 has 146 MA's), (Start: 103 @46159 has 3 MA's), (Start: 105 @46156 has 5 MA's), (Start: 108 @46150 has 1 MA's), (Start: 109 @46147 has 32 MA's), (112, 46138), (139, 46081),

Gene: DrFeelGood_72 Start: 45126, Stop: 44827, Start Num: 106

Candidate Starts for DrFeelGood_72:

(Start: 89 @45156 has 1 MA's), (Start: 106 @45126 has 188 MA's), (127, 45081), (Start: 129 @45078 has 2 MA's), (147, 45009), (153, 44958),

Gene: Drake55_84 Start: 47474, Stop: 47163, Start Num: 72

Candidate Starts for Drake55_84:

(Start: 72 @47474 has 38 MA's), (79, 47462), (Start: 101 @47432 has 18 MA's), (Start: 105 @47426 has 5 MA's), (111, 47411),

Gene: Drake94_80 Start: 47533, Stop: 47246, Start Num: 102

Candidate Starts for Drake94_80:

(2, 48340), (3, 48319), (4, 48307), (16, 47893), (23, 47797), (Start: 102 @47533 has 15 MA's), (112, 47518), (125, 47500),

Gene: DreamCatcher_80 Start: 47927, Stop: 47628, Start Num: 106

Candidate Starts for DreamCatcher_80:

(71, 47987), (Start: 106 @47927 has 188 MA's), (127, 47882), (Start: 129 @47879 has 2 MA's), (147, 47810), (153, 47759),

Gene: DreamTeam1_82 Start: 47145, Stop: 46912, Start Num: 129

Candidate Starts for DreamTeam1_82:

(28, 47427), (Start: 109 @47181 has 32 MA's), (Start: 129 @47145 has 2 MA's),

Gene: Dreamboat_76 Start: 45409, Stop: 45110, Start Num: 106

Candidate Starts for Dreamboat_76:

(71, 45469), (Start: 106 @45409 has 188 MA's), (127, 45364), (Start: 129 @45361 has 2 MA's), (147, 45292), (153, 45241),

Gene: DroogsArmy_74 Start: 48703, Stop: 48410, Start Num: 83

Candidate Starts for DroogsArmy_74:

(32, 48850), (40, 48817), (Start: 83 @48703 has 3 MA's), (98, 48673), (Start: 113 @48643 has 1 MA's),

Gene: Druantia_74 Start: 45650, Stop: 45351, Start Num: 70

Candidate Starts for Druantia_74:

(Start: 70 @45650 has 146 MA's),

Gene: Dublin_70 Start: 44258, Stop: 43959, Start Num: 95

Candidate Starts for Dublin_70:

(90, 44270), (Start: 95 @44258 has 7 MA's), (Start: 100 @44252 has 2 MA's), (119, 44216), (126, 44204), (150, 44114), (155, 44075),

Gene: DudeLittle_81 Start: 47365, Stop: 47060, Start Num: 72

Candidate Starts for DudeLittle_81:

(Start: 72 @47365 has 38 MA's), (Start: 105 @47320 has 5 MA's), (111, 47305), (133, 47263), (157, 47146),

Gene: Dulcie_77 Start: 49203, Stop: 48904, Start Num: 106
Candidate Starts for Dulcie_77:
(Start: 89 @49233 has 1 MA's), (Start: 106 @49203 has 188 MA's), (127, 49158), (Start: 129 @49155 has 2 MA's), (147, 49086), (153, 49035),

Gene: Dussy_75 Start: 46788, Stop: 46489, Start Num: 106
Candidate Starts for Dussy_75:
(Start: 89 @46818 has 1 MA's), (Start: 106 @46788 has 188 MA's), (127, 46743), (Start: 129 @46740 has 2 MA's), (147, 46671), (153, 46620),

Gene: Dynamix_76 Start: 45843, Stop: 45544, Start Num: 106
Candidate Starts for Dynamix_76:
(71, 45903), (Start: 106 @45843 has 188 MA's), (127, 45798), (Start: 129 @45795 has 2 MA's), (147, 45726), (153, 45675),

Gene: EZMoney23_79 Start: 46912, Stop: 46625, Start Num: 85
Candidate Starts for EZMoney23_79:
(19, 47167), (Start: 72 @46927 has 38 MA's), (Start: 85 @46912 has 1 MA's), (87, 46909), (Start: 101 @46888 has 18 MA's),

Gene: Eagle_74 Start: 45709, Stop: 45410, Start Num: 70
Candidate Starts for Eagle_74:
(Start: 70 @45709 has 146 MA's),

Gene: EagleEye_83 Start: 46835, Stop: 46572, Start Num: 109
Candidate Starts for EagleEye_83:
(9, 47399), (28, 47081), (Start: 109 @46835 has 32 MA's), (130, 46799), (131, 46796),

Gene: Eaglepride_86 Start: 48465, Stop: 48175, Start Num: 102
Candidate Starts for Eaglepride_86:
(Start: 102 @48465 has 15 MA's),

Gene: Eapen_75 Start: 45642, Stop: 45343, Start Num: 70
Candidate Starts for Eapen_75:
(41, 45714), (Start: 70 @45642 has 146 MA's), (Start: 103 @45600 has 3 MA's),

Gene: Echild_85 Start: 47560, Stop: 47255, Start Num: 72
Candidate Starts for Echild_85:
(10, 48040), (14, 47911), (24, 47761), (38, 47656), (Start: 70 @47563 has 146 MA's), (Start: 72 @47560 has 38 MA's), (Start: 101 @47518 has 18 MA's), (Start: 105 @47512 has 5 MA's), (157, 47338),

Gene: Edtherson_75 Start: 47019, Stop: 46720, Start Num: 106
Candidate Starts for Edtherson_75:
(71, 47079), (Start: 106 @47019 has 188 MA's), (127, 46974), (Start: 129 @46971 has 2 MA's), (147, 46902), (153, 46851),

Gene: Eidsmoe_85 Start: 47688, Stop: 47425, Start Num: 116
Candidate Starts for Eidsmoe_85:
(Start: 109 @47706 has 32 MA's), (Start: 116 @47688 has 17 MA's), (127, 47667), (150, 47571),

Gene: EITiger69_76 Start: 45331, Stop: 45047, Start Num: 107
Candidate Starts for EITiger69_76:

(Start: 100 @45343 has 2 MA's), (Start: 107 @45331 has 8 MA's), (121, 45304), (150, 45199), (153, 45175),

Gene: Elephantoon_87 Start: 47851, Stop: 47588, Start Num: 116

Candidate Starts for Elephantoon_87:

(Start: 109 @47869 has 32 MA's), (Start: 116 @47851 has 17 MA's), (127, 47830),

Gene: EmyBug_81 Start: 47690, Stop: 47427, Start Num: 116

Candidate Starts for EmyBug_81:

(Start: 109 @47708 has 32 MA's), (Start: 116 @47690 has 17 MA's), (127, 47669), (150, 47573),

Gene: Equemioh13_83 Start: 47452, Stop: 47141, Start Num: 72

Candidate Starts for Equemioh13_83:

(Start: 72 @47452 has 38 MA's), (79, 47440), (Start: 101 @47410 has 18 MA's), (Start: 105 @47404 has 5 MA's), (111, 47389),

Gene: EricB_82 Start: 45496, Stop: 45257, Start Num: 108

Candidate Starts for EricB_82:

(Start: 70 @45547 has 146 MA's), (Start: 103 @45505 has 3 MA's), (Start: 105 @45502 has 5 MA's), (Start: 108 @45496 has 1 MA's), (Start: 109 @45493 has 32 MA's), (112, 45484), (139, 45427),

Gene: Eris_74 Start: 45659, Stop: 45360, Start Num: 70

Candidate Starts for Eris_74:

(Start: 70 @45659 has 146 MA's), (Start: 103 @45617 has 3 MA's),

Gene: Eros_75 Start: 45649, Stop: 45350, Start Num: 70

Candidate Starts for Eros_75:

(Start: 70 @45649 has 146 MA's), (Start: 103 @45607 has 3 MA's),

Gene: Espresso_69 Start: 45691, Stop: 45392, Start Num: 106

Candidate Starts for Espresso_69:

(Start: 89 @45721 has 1 MA's), (Start: 106 @45691 has 188 MA's), (127, 45646), (Start: 129 @45643 has 2 MA's), (147, 45574), (153, 45523),

Gene: Euphoria_77 Start: 47608, Stop: 47309, Start Num: 106

Candidate Starts for Euphoria_77:

(Start: 89 @47638 has 1 MA's), (Start: 106 @47608 has 188 MA's), (127, 47563), (Start: 129 @47560 has 2 MA's), (147, 47491),

Gene: Eurydice_76 Start: 45684, Stop: 45385, Start Num: 70

Candidate Starts for Eurydice_76:

(Start: 70 @45684 has 146 MA's), (Start: 103 @45642 has 3 MA's),

Gene: EvilGenius_83 Start: 48885, Stop: 48580, Start Num: 70

Candidate Starts for EvilGenius_83:

(Start: 70 @48885 has 146 MA's), (Start: 101 @48846 has 18 MA's), (Start: 105 @48840 has 5 MA's), (157, 48666),

Gene: ExplosioNervosa_85 Start: 47756, Stop: 47493, Start Num: 116

Candidate Starts for ExplosioNervosa_85:

(Start: 109 @47774 has 32 MA's), (Start: 116 @47756 has 17 MA's), (127, 47735), (150, 47639),

Gene: Eyeball_75 Start: 46893, Stop: 46594, Start Num: 106

Candidate Starts for Eyeball_75:

(Start: 89 @46923 has 1 MA's), (Start: 106 @46893 has 188 MA's), (127, 46848), (Start: 129 @46845 has 2 MA's), (147, 46776), (153, 46725),

Gene: Fajezeel_79 Start: 48129, Stop: 47830, Start Num: 106

Candidate Starts for Fajezeel_79:

(Start: 89 @48159 has 1 MA's), (Start: 106 @48129 has 188 MA's), (127, 48084), (Start: 129 @48081 has 2 MA's), (147, 48012), (153, 47961),

Gene: Fameo_81 Start: 47377, Stop: 47072, Start Num: 72

Candidate Starts for Fameo_81:

(Start: 72 @47377 has 38 MA's), (Start: 105 @47332 has 5 MA's), (157, 47158),

Gene: Fascinus_72 Start: 47417, Stop: 47118, Start Num: 106

Candidate Starts for Fascinus_72:

(71, 47477), (Start: 106 @47417 has 188 MA's), (127, 47372), (Start: 129 @47369 has 2 MA's), (147, 47300), (153, 47249),

Gene: Fayely_85 Start: 47682, Stop: 47401, Start Num: 109

Candidate Starts for Fayely_85:

(Start: 109 @47682 has 32 MA's), (Start: 116 @47664 has 17 MA's), (127, 47643), (150, 47547),

Gene: Fenn_79 Start: 47948, Stop: 47649, Start Num: 106

Candidate Starts for Fenn_79:

(71, 48008), (Start: 106 @47948 has 188 MA's), (127, 47903), (Start: 129 @47900 has 2 MA's), (147, 47831), (153, 47780),

Gene: Fibonacci_83 Start: 46378, Stop: 46082, Start Num: 97

Candidate Starts for Fibonacci_83:

(Start: 97 @46378 has 14 MA's), (104, 46369), (121, 46339), (126, 46330), (150, 46240),

Gene: FiringLine_83 Start: 47765, Stop: 47457, Start Num: 72

Candidate Starts for FiringLine_83:

(Start: 72 @47765 has 38 MA's), (Start: 105 @47717 has 5 MA's), (111, 47702), (133, 47660), (157, 47543),

Gene: First_0084 Start: 47621, Stop: 47298, Start Num: 70

Candidate Starts for First_0084:

(Start: 70 @47621 has 146 MA's), (111, 47555), (133, 47513),

Gene: Flare16_83 Start: 47267, Stop: 46956, Start Num: 72

Candidate Starts for Flare16_83:

(Start: 72 @47267 has 38 MA's), (79, 47255), (Start: 101 @47225 has 18 MA's), (Start: 105 @47219 has 5 MA's), (111, 47204),

Gene: Florean_75 Start: 45646, Stop: 45347, Start Num: 70

Candidate Starts for Florean_75:

(Start: 70 @45646 has 146 MA's), (Start: 103 @45604 has 3 MA's),

Gene: Flux_76 Start: 45645, Stop: 45346, Start Num: 70

Candidate Starts for Flux_76:

(Start: 70 @45645 has 146 MA's), (Start: 103 @45603 has 3 MA's),

Gene: ForGetIt_71 Start: 44378, Stop: 44082, Start Num: 97
Candidate Starts for ForGetIt_71:
(Start: 97 @44378 has 14 MA's), (Start: 110 @44357 has 1 MA's), (155, 44198),

Gene: Forsytheast_78 Start: 47631, Stop: 47332, Start Num: 106
Candidate Starts for Forsytheast_78:
(Start: 89 @47661 has 1 MA's), (Start: 106 @47631 has 188 MA's), (127, 47586), (Start: 129 @47583 has 2 MA's), (147, 47514), (153, 47463),

Gene: Francis47_78 Start: 49500, Stop: 49201, Start Num: 106
Candidate Starts for Francis47_78:
(71, 49560), (Start: 106 @49500 has 188 MA's), (127, 49455), (Start: 129 @49452 has 2 MA's), (147, 49383), (153, 49332),

Gene: Fruitloop_38 Start: 31549, Stop: 31313, Start Num: 106
Candidate Starts for Fruitloop_38:
(Start: 106 @31549 has 188 MA's), (127, 31504), (Start: 129 @31501 has 2 MA's), (147, 31432), (153, 31381),

Gene: Funston_74 Start: 45644, Stop: 45345, Start Num: 70
Candidate Starts for Funston_74:
(Start: 70 @45644 has 146 MA's), (Start: 103 @45602 has 3 MA's),

Gene: Fushigi_70 Start: 43949, Stop: 43650, Start Num: 106
Candidate Starts for Fushigi_70:
(71, 44009), (Start: 106 @43949 has 188 MA's), (127, 43904), (Start: 129 @43901 has 2 MA's), (147, 43832), (153, 43781),

Gene: Gadost_75 Start: 45648, Stop: 45349, Start Num: 70
Candidate Starts for Gadost_75:
(Start: 70 @45648 has 146 MA's), (Start: 103 @45606 has 3 MA's),

Gene: GageAP_79 Start: 48853, Stop: 48554, Start Num: 106
Candidate Starts for GageAP_79:
(71, 48913), (Start: 106 @48853 has 188 MA's), (127, 48808), (Start: 129 @48805 has 2 MA's), (147, 48736), (153, 48685),

Gene: Gail_84 Start: 47375, Stop: 47103, Start Num: 109
Candidate Starts for Gail_84:
(49, 47507), (53, 47495), (78, 47432), (Start: 109 @47375 has 32 MA's), (130, 47339), (145, 47291),

Gene: Gandalf20_75 Start: 46976, Stop: 46677, Start Num: 106
Candidate Starts for Gandalf20_75:
(Start: 89 @47006 has 1 MA's), (Start: 106 @46976 has 188 MA's), (127, 46931), (Start: 129 @46928 has 2 MA's), (147, 46859), (153, 46808),

Gene: Garak_85 Start: 45929, Stop: 45678, Start Num: 110
Candidate Starts for Garak_85:
(21, 46241), (26, 46184), (27, 46181), (31, 46136), (67, 46013), (Start: 101 @45941 has 18 MA's), (Start: 110 @45929 has 1 MA's), (112, 45923), (Start: 129 @45884 has 2 MA's),

Gene: GaugeLDP_77 Start: 46661, Stop: 46341, Start Num: 76
Candidate Starts for GaugeLDP_77:

(Start: 76 @46661 has 2 MA's), (87, 46646), (Start: 97 @46628 has 14 MA's), (Start: 103 @46622 has 3 MA's), (Start: 108 @46613 has 1 MA's), (154, 46457), (159, 46430),

Gene: Georgie2_85 Start: 47969, Stop: 47661, Start Num: 72

Candidate Starts for Georgie2_85:

(Start: 72 @47969 has 38 MA's), (Start: 105 @47921 has 5 MA's), (111, 47906), (133, 47864), (157, 47747),

Gene: Ghouboy_70 Start: 44353, Stop: 44036, Start Num: 95

Candidate Starts for Ghouboy_70:

(66, 44425), (84, 44374), (90, 44365), (Start: 95 @44353 has 7 MA's), (Start: 100 @44347 has 2 MA's), (119, 44311), (126, 44299),

Gene: Gladiator_80 Start: 45664, Stop: 45353, Start Num: 101

Candidate Starts for Gladiator_80:

(25, 45910), (27, 45904), (67, 45736), (Start: 101 @45664 has 18 MA's), (Start: 109 @45646 has 32 MA's), (Start: 110 @45643 has 1 MA's), (111, 45640), (112, 45637), (115, 45628), (Start: 116 @45622 has 17 MA's), (118, 45619), (Start: 129 @45598 has 2 MA's), (137, 45562),

Gene: Gompeii16_77 Start: 49500, Stop: 49201, Start Num: 106

Candidate Starts for Gompeii16_77:

(71, 49560), (Start: 106 @49500 has 188 MA's), (127, 49455), (Start: 129 @49452 has 2 MA's), (147, 49383), (153, 49332),

Gene: Goose_84 Start: 48190, Stop: 47897, Start Num: 102

Candidate Starts for Goose_84:

(16, 48550), (23, 48454), (Start: 102 @48190 has 15 MA's), (131, 48136),

Gene: Graduation_79 Start: 47476, Stop: 47177, Start Num: 106

Candidate Starts for Graduation_79:

(Start: 106 @47476 has 188 MA's), (127, 47431), (Start: 129 @47428 has 2 MA's), (147, 47359), (153, 47308),

Gene: GrecoEtereo_80 Start: 48605, Stop: 48306, Start Num: 106

Candidate Starts for GrecoEtereo_80:

(Start: 89 @48635 has 1 MA's), (Start: 106 @48605 has 188 MA's), (127, 48560), (Start: 129 @48557 has 2 MA's), (147, 48488),

Gene: GreedyLawyer_77 Start: 45520, Stop: 45230, Start Num: 70

Candidate Starts for GreedyLawyer_77:

(29, 45664), (33, 45634), (50, 45568), (Start: 52 @45562 has 1 MA's), (Start: 70 @45520 has 146 MA's), (Start: 103 @45478 has 3 MA's), (Start: 105 @45475 has 5 MA's), (Start: 108 @45469 has 1 MA's), (Start: 109 @45466 has 32 MA's), (112, 45457), (139, 45400),

Gene: Greg_79 Start: 48129, Stop: 47830, Start Num: 106

Candidate Starts for Greg_79:

(Start: 89 @48159 has 1 MA's), (Start: 106 @48129 has 188 MA's), (127, 48084), (Start: 129 @48081 has 2 MA's), (147, 48012), (153, 47961),

Gene: Gruunaga_83 Start: 45619, Stop: 45308, Start Num: 101

Candidate Starts for Gruunaga_83:

(25, 45865), (27, 45859), (67, 45691), (Start: 101 @45619 has 18 MA's), (Start: 109 @45601 has 32 MA's), (Start: 110 @45598 has 1 MA's), (111, 45595), (112, 45592), (115, 45583), (Start: 116 @45577

has 17 MA's), (118, 45574), (Start: 129 @45553 has 2 MA's), (137, 45517),

Gene: Gwendoluna_79 Start: 48442, Stop: 48143, Start Num: 106

Candidate Starts for Gwendoluna_79:

(Start: 89 @48472 has 1 MA's), (Start: 106 @48442 has 188 MA's), (127, 48397), (Start: 129 @48394 has 2 MA's), (147, 48325), (153, 48274),

Gene: Gyzlar_69 Start: 43801, Stop: 43514, Start Num: 106

Candidate Starts for Gyzlar_69:

(71, 43861), (Start: 106 @43801 has 188 MA's), (127, 43768), (Start: 129 @43765 has 2 MA's), (147, 43696), (153, 43645),

Gene: HINdeR_74 Start: 48078, Stop: 47791, Start Num: 83

Candidate Starts for HINdeR_74:

(32, 48225), (35, 48216), (Start: 83 @48078 has 3 MA's), (Start: 113 @48018 has 1 MA's),

Gene: HamSlice_71 Start: 45646, Stop: 45347, Start Num: 70

Candidate Starts for HamSlice_71:

(Start: 70 @45646 has 146 MA's), (Start: 103 @45604 has 3 MA's),

Gene: Hammer_84 Start: 45326, Stop: 45015, Start Num: 101

Candidate Starts for Hammer_84:

(12, 45779), (25, 45572), (27, 45566), (67, 45398), (Start: 101 @45326 has 18 MA's), (Start: 109 @45308 has 32 MA's), (Start: 110 @45305 has 1 MA's), (111, 45302), (112, 45299), (115, 45290), (Start: 116 @45284 has 17 MA's), (118, 45281), (Start: 129 @45260 has 2 MA's), (137, 45224),

Gene: HanShotFirst_74 Start: 47407, Stop: 47108, Start Num: 106

Candidate Starts for HanShotFirst_74:

(71, 47467), (Start: 106 @47407 has 188 MA's), (127, 47362), (Start: 129 @47359 has 2 MA's), (147, 47290), (153, 47239),

Gene: Happiness_74 Start: 45670, Stop: 45368, Start Num: 70

Candidate Starts for Happiness_74:

(Start: 70 @45670 has 146 MA's), (Start: 103 @45628 has 3 MA's), (139, 45550),

Gene: HarryHoudini_83 Start: 47477, Stop: 47166, Start Num: 72

Candidate Starts for HarryHoudini_83:

(Start: 72 @47477 has 38 MA's), (79, 47465), (Start: 101 @47435 has 18 MA's), (Start: 105 @47429 has 5 MA's), (111, 47414),

Gene: HarryOW_77 Start: 48653, Stop: 48354, Start Num: 106

Candidate Starts for HarryOW_77:

(Start: 89 @48683 has 1 MA's), (Start: 106 @48653 has 188 MA's), (127, 48608), (Start: 129 @48605 has 2 MA's), (147, 48536), (153, 48485),

Gene: Heffalump_80 Start: 47845, Stop: 47540, Start Num: 72

Candidate Starts for Heffalump_80:

(Start: 72 @47845 has 38 MA's), (Start: 105 @47800 has 5 MA's), (157, 47626),

Gene: Helmet_85 Start: 45929, Stop: 45678, Start Num: 110

Candidate Starts for Helmet_85:

(21, 46241), (26, 46184), (27, 46181), (31, 46136), (67, 46013), (Start: 101 @45941 has 18 MA's), (Start: 110 @45929 has 1 MA's), (112, 45923), (Start: 129 @45884 has 2 MA's),

Gene: Herbertwm_77 Start: 46431, Stop: 46096, Start Num: 72

Candidate Starts for Herbertwm_77:

(29, 46587), (33, 46551), (36, 46539), (50, 46485), (55, 46473), (Start: 72 @46431 has 38 MA's), (96, 46386), (Start: 129 @46332 has 2 MA's), (148, 46251), (158, 46188),

Gene: Hermia_68 Start: 45532, Stop: 45233, Start Num: 106

Candidate Starts for Hermia_68:

(Start: 106 @45532 has 188 MA's), (127, 45487), (Start: 129 @45484 has 2 MA's), (147, 45415), (153, 45364),

Gene: HermioneGrange_80 Start: 48918, Stop: 48619, Start Num: 106

Candidate Starts for HermioneGrange_80:

(71, 48978), (Start: 106 @48918 has 188 MA's), (127, 48873), (Start: 129 @48870 has 2 MA's), (147, 48801), (153, 48750),

Gene: Hexamo_83 Start: 45494, Stop: 45183, Start Num: 101

Candidate Starts for Hexamo_83:

(12, 45947), (25, 45740), (27, 45734), (67, 45566), (Start: 101 @45494 has 18 MA's), (Start: 109 @45476 has 32 MA's), (Start: 110 @45473 has 1 MA's), (111, 45470), (115, 45458), (Start: 116 @45452 has 17 MA's), (118, 45449), (Start: 129 @45428 has 2 MA's), (137, 45392),

Gene: Holli_74 Start: 45437, Stop: 45138, Start Num: 70

Candidate Starts for Holli_74:

(Start: 70 @45437 has 146 MA's), (Start: 103 @45395 has 3 MA's),

Gene: Homines_64 Start: 41862, Stop: 41563, Start Num: 106

Candidate Starts for Homines_64:

(Start: 106 @41862 has 188 MA's), (127, 41817), (Start: 129 @41814 has 2 MA's), (147, 41745), (150, 41718), (153, 41694),

Gene: Hookmount_79 Start: 45998, Stop: 45720, Start Num: 109

Candidate Starts for Hookmount_79:

(Start: 95 @46019 has 7 MA's), (Start: 107 @46001 has 8 MA's), (Start: 109 @45998 has 32 MA's), (117, 45980),

Gene: Hoot_78 Start: 43405, Stop: 43115, Start Num: 70

Candidate Starts for Hoot_78:

(29, 43549), (33, 43519), (50, 43453), (Start: 52 @43447 has 1 MA's), (Start: 70 @43405 has 146 MA's), (Start: 103 @43363 has 3 MA's), (Start: 105 @43360 has 5 MA's), (Start: 108 @43354 has 1 MA's), (Start: 109 @43351 has 32 MA's), (112, 43342), (139, 43285),

Gene: Hope4ever_77 Start: 47133, Stop: 46834, Start Num: 106

Candidate Starts for Hope4ever_77:

(30, 47340), (35, 47313), (44, 47271), (45, 47268), (53, 47241), (60, 47229), (64, 47220), (Start: 68 @47205 has 5 MA's), (94, 47151), (Start: 106 @47133 has 188 MA's), (127, 47088), (Start: 129 @47085 has 2 MA's), (147, 47016), (153, 46965),

Gene: HortumSL17_88 Start: 48032, Stop: 47766, Start Num: 116

Candidate Starts for HortumSL17_88:

(Start: 109 @48050 has 32 MA's), (Start: 116 @48032 has 17 MA's), (127, 48011), (150, 47915),

Gene: Houdini22_74 Start: 45648, Stop: 45349, Start Num: 70

Candidate Starts for Houdini22_74:

(Start: 70 @45648 has 146 MA's), (Start: 103 @45606 has 3 MA's),

Gene: HuhtaEnerson15_68 Start: 43954, Stop: 43652, Start Num: 93

Candidate Starts for HuhtaEnerson15_68:

(Start: 93 @43954 has 6 MA's), (Start: 110 @43927 has 1 MA's), (112, 43921), (155, 43768),

Gene: Hutc2_80 Start: 45262, Stop: 44966, Start Num: 97

Candidate Starts for Hutc2_80:

(Start: 97 @45262 has 14 MA's), (104, 45253), (121, 45223), (126, 45214), (150, 45124),

Gene: ICleared_74 Start: 45715, Stop: 45416, Start Num: 70

Candidate Starts for ICleared_74:

(Start: 70 @45715 has 146 MA's), (Start: 103 @45673 has 3 MA's),

Gene: ILeeKay_74 Start: 45443, Stop: 45144, Start Num: 106

Candidate Starts for ILeeKay_74:

(71, 45503), (Start: 106 @45443 has 188 MA's), (127, 45398), (Start: 129 @45395 has 2 MA's), (147, 45326), (153, 45275),

Gene: Iceman_73 Start: 45937, Stop: 45638, Start Num: 70

Candidate Starts for Iceman_73:

(Start: 70 @45937 has 146 MA's), (Start: 103 @45895 has 3 MA's),

Gene: Ichabod_79 Start: 47690, Stop: 47391, Start Num: 106

Candidate Starts for Ichabod_79:

(71, 47750), (Start: 106 @47690 has 188 MA's), (127, 47645), (Start: 129 @47642 has 2 MA's), (147, 47573), (153, 47522),

Gene: IgnatiusPatJac_76 Start: 46338, Stop: 46009, Start Num: 89

Candidate Starts for IgnatiusPatJac_76:

(Start: 89 @46338 has 1 MA's), (Start: 106 @46308 has 188 MA's), (127, 46263), (Start: 129 @46260 has 2 MA's), (147, 46191), (153, 46140),

Gene: Indra_87 Start: 45942, Stop: 45679, Start Num: 101

Candidate Starts for Indra_87:

(21, 46242), (26, 46185), (27, 46182), (31, 46137), (67, 46014), (Start: 101 @45942 has 18 MA's), (Start: 110 @45930 has 1 MA's), (112, 45924), (Start: 129 @45885 has 2 MA's),

Gene: Iracema64_75 Start: 45911, Stop: 45612, Start Num: 70

Candidate Starts for Iracema64_75:

(Start: 70 @45911 has 146 MA's), (Start: 103 @45869 has 3 MA's),

Gene: IronMan_79 Start: 48100, Stop: 47804, Start Num: 80

Candidate Starts for IronMan_79:

(41, 48175), (Start: 80 @48100 has 1 MA's), (Start: 108 @48064 has 1 MA's),

Gene: Isiphiwo_80 Start: 45575, Stop: 45285, Start Num: 70

Candidate Starts for Isiphiwo_80:

(Start: 70 @45575 has 146 MA's), (Start: 103 @45533 has 3 MA's), (Start: 105 @45530 has 5 MA's), (Start: 108 @45524 has 1 MA's), (Start: 109 @45521 has 32 MA's), (112, 45512), (139, 45455),

Gene: Iwokeuplikedis_86 Start: 48070, Stop: 47795, Start Num: 72

Candidate Starts for Iwokeuplikedis_86:

(29, 48229), (33, 48193), (36, 48181), (Start: 52 @48121 has 1 MA's), (55, 48115), (Start: 72 @48070 has 38 MA's), (98, 48031), (Start: 108 @48016 has 1 MA's),

Gene: JC27_77 Start: 46703, Stop: 46419, Start Num: 109

Candidate Starts for JC27_77:

(91, 46733), (Start: 109 @46703 has 32 MA's), (114, 46691), (147, 46601), (153, 46550),

Gene: Jaan_80 Start: 48211, Stop: 47903, Start Num: 70

Candidate Starts for Jaan_80:

(Start: 70 @48211 has 146 MA's), (Start: 103 @48169 has 3 MA's), (Start: 129 @48109 has 2 MA's),

Gene: JackSparrow_77 Start: 46543, Stop: 46244, Start Num: 106

Candidate Starts for JackSparrow_77:

(71, 46603), (Start: 106 @46543 has 188 MA's), (127, 46498), (Start: 129 @46495 has 2 MA's), (153, 46375),

Gene: Jasper_75 Start: 45295, Stop: 44996, Start Num: 106

Candidate Starts for Jasper_75:

(71, 45355), (Start: 106 @45295 has 188 MA's), (127, 45250), (Start: 129 @45247 has 2 MA's), (147, 45178), (153, 45127),

Gene: Jaykayelowell_72 Start: 45640, Stop: 45341, Start Num: 70

Candidate Starts for Jaykayelowell_72:

(Start: 70 @45640 has 146 MA's), (Start: 103 @45598 has 3 MA's),

Gene: Jeeves_84 Start: 46095, Stop: 45823, Start Num: 109

Candidate Starts for Jeeves_84:

(49, 46227), (53, 46215), (78, 46152), (82, 46146), (Start: 109 @46095 has 32 MA's), (127, 46065), (130, 46059), (131, 46056), (145, 46011),

Gene: Jerm_85 Start: 48029, Stop: 47718, Start Num: 70

Candidate Starts for Jerm_85:

(Start: 70 @48029 has 146 MA's), (Start: 72 @48026 has 38 MA's), (111, 47963), (157, 47801),

Gene: Jerm2_78 Start: 48988, Stop: 48689, Start Num: 106

Candidate Starts for Jerm2_78:

(71, 49048), (Start: 106 @48988 has 188 MA's), (127, 48943), (Start: 129 @48940 has 2 MA's), (147, 48871), (153, 48820),

Gene: JetBlade_76 Start: 45675, Stop: 45376, Start Num: 70

Candidate Starts for JetBlade_76:

(Start: 70 @45675 has 146 MA's), (Start: 103 @45633 has 3 MA's),

Gene: JoongJeon_74 Start: 45641, Stop: 45342, Start Num: 70

Candidate Starts for JoongJeon_74:

(Start: 70 @45641 has 146 MA's), (Start: 103 @45599 has 3 MA's),

Gene: Jordennis_81 Start: 45745, Stop: 45497, Start Num: 103

Candidate Starts for Jordennis_81:

(29, 45931), (33, 45901), (50, 45835), (Start: 52 @45829 has 1 MA's), (Start: 70 @45787 has 146 MA's), (Start: 103 @45745 has 3 MA's), (Start: 105 @45742 has 5 MA's), (Start: 108 @45736 has 1 MA's), (Start: 109 @45733 has 32 MA's), (112, 45724), (139, 45667), (144, 45652),

Gene: Jorgensen_83 Start: 48562, Stop: 48278, Start Num: 109

Candidate Starts for Jorgensen_83:

(91, 48592), (Start: 109 @48562 has 32 MA's), (114, 48550), (147, 48460), (153, 48409),

Gene: JoshKayV_85 Start: 48197, Stop: 47886, Start Num: 70

Candidate Starts for JoshKayV_85:

(Start: 70 @48197 has 146 MA's), (Start: 72 @48194 has 38 MA's), (Start: 101 @48152 has 18 MA's), (Start: 105 @48146 has 5 MA's), (157, 47972),

Gene: Journey13_68 Start: 43259, Stop: 42879, Start Num: 54

Candidate Starts for Journey13_68:

(Start: 54 @43259 has 1 MA's), (59, 43250), (Start: 109 @43151 has 32 MA's), (122, 43133), (130, 43115), (140, 43079),

Gene: Jsquared_87 Start: 47057, Stop: 46782, Start Num: 109

Candidate Starts for Jsquared_87:

(28, 47306), (Start: 109 @47057 has 32 MA's), (118, 47036), (125, 47024), (127, 47018),

Gene: JuliaChild_77 Start: 47536, Stop: 47237, Start Num: 106

Candidate Starts for JuliaChild_77:

(Start: 89 @47566 has 1 MA's), (Start: 106 @47536 has 188 MA's), (127, 47491), (Start: 129 @47488 has 2 MA's), (147, 47419), (153, 47368),

Gene: KBG_74 Start: 47890, Stop: 47585, Start Num: 102

Candidate Starts for KBG_74:

(Start: 102 @47890 has 15 MA's), (Start: 106 @47884 has 188 MA's), (127, 47839), (Start: 129 @47836 has 2 MA's), (147, 47767), (153, 47716),

Gene: KFPoly_74 Start: 45641, Stop: 45342, Start Num: 70

Candidate Starts for KFPoly_74:

(Start: 70 @45641 has 146 MA's), (Start: 103 @45599 has 3 MA's),

Gene: KSSJEB_73 Start: 45768, Stop: 45469, Start Num: 106

Candidate Starts for KSSJEB_73:

(Start: 106 @45768 has 188 MA's), (127, 45723), (Start: 129 @45720 has 2 MA's), (147, 45651), (153, 45600),

Gene: Kalpine_85 Start: 48190, Stop: 47882, Start Num: 73

Candidate Starts for Kalpine_85:

(Start: 73 @48190 has 2 MA's), (Start: 101 @48151 has 18 MA's), (Start: 103 @48148 has 3 MA's),

Gene: Kamy_74 Start: 45650, Stop: 45351, Start Num: 70

Candidate Starts for Kamy_74:

(Start: 70 @45650 has 146 MA's), (Start: 103 @45608 has 3 MA's),

Gene: Kanely_78 Start: 47624, Stop: 47325, Start Num: 106

Candidate Starts for Kanely_78:

(Start: 102 @47630 has 15 MA's), (Start: 106 @47624 has 188 MA's), (127, 47579), (Start: 129 @47576 has 2 MA's), (147, 47507), (153, 47456),

Gene: Katalie136_74 Start: 45708, Stop: 45397, Start Num: 47

Candidate Starts for Katalie136_74:

(Start: 46 @45711 has 2 MA's), (Start: 47 @45708 has 12 MA's), (Start: 56 @45690 has 2 MA's), (57, 45687), (75, 45657), (Start: 110 @45645 has 1 MA's), (Start: 129 @45606 has 2 MA's), (139, 45573),

Gene: Kazan_84 Start: 45560, Stop: 45270, Start Num: 70

Candidate Starts for Kazan_84:

(29, 45704), (33, 45674), (50, 45608), (Start: 52 @45602 has 1 MA's), (Start: 70 @45560 has 146 MA's), (Start: 103 @45518 has 3 MA's), (Start: 105 @45515 has 5 MA's), (Start: 108 @45509 has 1 MA's), (Start: 109 @45506 has 32 MA's), (112, 45497), (139, 45440), (144, 45425),

Gene: Kenmech_78 Start: 47914, Stop: 47615, Start Num: 106

Candidate Starts for Kenmech_78:

(Start: 89 @47944 has 1 MA's), (Start: 106 @47914 has 188 MA's), (127, 47869), (Start: 129 @47866 has 2 MA's), (147, 47797), (153, 47746),

Gene: Keziacharles14_84 Start: 48520, Stop: 48254, Start Num: 110

Candidate Starts for Keziacharles14_84:

(Start: 110 @48520 has 1 MA's), (118, 48505), (127, 48487), (Start: 129 @48484 has 2 MA's), (130, 48481),

Gene: Killigrew_73 Start: 46134, Stop: 45835, Start Num: 106

Candidate Starts for Killigrew_73:

(71, 46194), (Start: 106 @46134 has 188 MA's), (127, 46089), (Start: 129 @46086 has 2 MA's), (142, 46044), (147, 46017), (153, 45966),

Gene: Kimona_76 Start: 44739, Stop: 44437, Start Num: 69

Candidate Starts for Kimona_76:

(41, 44811), (Start: 69 @44739 has 5 MA's),

Gene: KingCyrus_82 Start: 48898, Stop: 48593, Start Num: 70

Candidate Starts for KingCyrus_82:

(Start: 70 @48898 has 146 MA's), (Start: 101 @48859 has 18 MA's), (Start: 105 @48853 has 5 MA's), (156, 48682), (157, 48679),

Gene: Kingmustik0402_75 Start: 45636, Stop: 45337, Start Num: 70

Candidate Starts for Kingmustik0402_75:

(Start: 70 @45636 has 146 MA's), (Start: 103 @45594 has 3 MA's),

Gene: Kipper29_83 Start: 45573, Stop: 45283, Start Num: 70

Candidate Starts for Kipper29_83:

(29, 45717), (33, 45687), (50, 45621), (Start: 52 @45615 has 1 MA's), (Start: 70 @45573 has 146 MA's), (Start: 103 @45531 has 3 MA's), (Start: 105 @45528 has 5 MA's), (Start: 108 @45522 has 1 MA's), (Start: 109 @45519 has 32 MA's), (112, 45510), (139, 45453),

Gene: KittenMittens_78 Start: 47540, Stop: 47253, Start Num: 102

Candidate Starts for KittenMittens_78:

(2, 48347), (3, 48326), (4, 48314), (16, 47900), (23, 47804), (Start: 102 @47540 has 15 MA's), (112, 47525), (125, 47507),

Gene: Koko_85 Start: 46331, Stop: 46068, Start Num: 101

Candidate Starts for Koko_85:

(21, 46631), (26, 46574), (27, 46571), (31, 46526), (67, 46403), (Start: 101 @46331 has 18 MA's), (Start: 110 @46319 has 1 MA's), (112, 46313), (Start: 129 @46274 has 2 MA's),

Gene: Koreni_74 Start: 45328, Stop: 45029, Start Num: 70
Candidate Starts for Koreni_74:
(Start: 70 @45328 has 146 MA's), (Start: 103 @45286 has 3 MA's),

Gene: Kratark_74 Start: 45681, Stop: 45382, Start Num: 70
Candidate Starts for Kratark_74:
(Start: 70 @45681 has 146 MA's), (Start: 103 @45639 has 3 MA's),

Gene: Kremtemulon_71 Start: 45795, Stop: 45481, Start Num: 47
Candidate Starts for Kremtemulon_71:
(Start: 46 @45798 has 2 MA's), (Start: 47 @45795 has 12 MA's), (Start: 56 @45777 has 2 MA's), (57, 45774), (Start: 110 @45732 has 1 MA's), (Start: 129 @45693 has 2 MA's),

Gene: Kristoff_81 Start: 48800, Stop: 48519, Start Num: 102
Candidate Starts for Kristoff_81:
(13, 49208), (18, 49112), (Start: 102 @48800 has 15 MA's),

Gene: Kugel_78 Start: 47776, Stop: 47477, Start Num: 106
Candidate Starts for Kugel_78:
(71, 47836), (Start: 106 @47776 has 188 MA's), (127, 47731), (Start: 129 @47728 has 2 MA's), (147, 47659), (153, 47608),

Gene: KyMonks1A_82 Start: 48245, Stop: 47946, Start Num: 106
Candidate Starts for KyMonks1A_82:
(Start: 89 @48275 has 1 MA's), (Start: 106 @48245 has 188 MA's), (127, 48200), (Start: 129 @48197 has 2 MA's), (147, 48128), (153, 48077),

Gene: Kyee_75 Start: 45642, Stop: 45343, Start Num: 70
Candidate Starts for Kyee_75:
(Start: 70 @45642 has 146 MA's), (Start: 103 @45600 has 3 MA's),

Gene: Kykar_76 Start: 46815, Stop: 46522, Start Num: 106
Candidate Starts for Kykar_76:
(71, 46875), (Start: 106 @46815 has 188 MA's), (114, 46794), (147, 46704), (153, 46653),

Gene: LHTSCC_77 Start: 46087, Stop: 45785, Start Num: 70
Candidate Starts for LHTSCC_77:
(Start: 70 @46087 has 146 MA's), (Start: 103 @46045 has 3 MA's), (139, 45967),

Gene: Lamina13_80 Start: 49268, Stop: 48969, Start Num: 106
Candidate Starts for Lamina13_80:
(71, 49328), (Start: 106 @49268 has 188 MA's), (127, 49223), (Start: 129 @49220 has 2 MA's), (147, 49151), (153, 49100),

Gene: Landor_80 Start: 48136, Stop: 47828, Start Num: 70
Candidate Starts for Landor_80:
(Start: 70 @48136 has 146 MA's), (Start: 103 @48094 has 3 MA's), (Start: 129 @48034 has 2 MA's),

Gene: LappelDuVide_71 Start: 45647, Stop: 45348, Start Num: 70
Candidate Starts for LappelDuVide_71:
(Start: 70 @45647 has 146 MA's), (Start: 103 @45605 has 3 MA's),

Gene: Larenn_81 Start: 47473, Stop: 47156, Start Num: 72

Candidate Starts for Larenn_81:

(6, 48031), (11, 47863), (19, 47719), (Start: 72 @47473 has 38 MA's), (Start: 73 @47470 has 2 MA's), (Start: 101 @47431 has 18 MA's), (111, 47410), (156, 47245),

Gene: Lemur_75 Start: 45644, Stop: 45345, Start Num: 70

Candidate Starts for Lemur_75:

(Start: 70 @45644 has 146 MA's), (Start: 103 @45602 has 3 MA's),

Gene: LeoAvram_74 Start: 45714, Stop: 45379, Start Num: 51

Candidate Starts for LeoAvram_74:

(Start: 51 @45714 has 1 MA's), (74, 45663), (Start: 103 @45636 has 3 MA's),

Gene: Lesedi_73 Start: 45402, Stop: 45103, Start Num: 106

Candidate Starts for Lesedi_73:

(Start: 89 @45432 has 1 MA's), (Start: 106 @45402 has 188 MA's), (127, 45357), (Start: 129 @45354 has 2 MA's), (147, 45285), (153, 45234),

Gene: Lev2_71 Start: 44266, Stop: 43970, Start Num: 97

Candidate Starts for Lev2_71:

(Start: 97 @44266 has 14 MA's), (Start: 110 @44245 has 1 MA's), (155, 44086),

Gene: Leviathan_85 Start: 48110, Stop: 47802, Start Num: 70

Candidate Starts for Leviathan_85:

(Start: 70 @48110 has 146 MA's), (Start: 72 @48107 has 38 MA's), (Start: 101 @48065 has 18 MA's), (Start: 105 @48059 has 5 MA's), (111, 48044), (157, 47885),

Gene: Licorice_77 Start: 48925, Stop: 48626, Start Num: 106

Candidate Starts for Licorice_77:

(Start: 102 @48931 has 15 MA's), (Start: 106 @48925 has 188 MA's), (127, 48880), (Start: 129 @48877 has 2 MA's), (147, 48808), (153, 48757),

Gene: LilBib_73 Start: 47156, Stop: 46857, Start Num: 106

Candidate Starts for LilBib_73:

(Start: 106 @47156 has 188 MA's), (127, 47111), (Start: 129 @47108 has 2 MA's), (147, 47039), (153, 46988),

Gene: LilTurb_84 Start: 47906, Stop: 47598, Start Num: 70

Candidate Starts for LilTurb_84:

(Start: 70 @47906 has 146 MA's), (Start: 72 @47903 has 38 MA's), (111, 47840), (157, 47681),

Gene: LittleB_75 Start: 45648, Stop: 45349, Start Num: 70

Candidate Starts for LittleB_75:

(Start: 70 @45648 has 146 MA's), (Start: 103 @45606 has 3 MA's),

Gene: LittleCherry_69 Start: 43824, Stop: 43522, Start Num: 93

Candidate Starts for LittleCherry_69:

(Start: 93 @43824 has 6 MA's), (Start: 110 @43797 has 1 MA's), (112, 43791), (155, 43638),

Gene: LittleGuy_75 Start: 45532, Stop: 45233, Start Num: 70

Candidate Starts for LittleGuy_75:

(Start: 70 @45532 has 146 MA's), (Start: 103 @45490 has 3 MA's),

Gene: LochMonster_76 Start: 45884, Stop: 45585, Start Num: 70

Candidate Starts for LochMonster_76:
(Start: 70 @45884 has 146 MA's), (Start: 103 @45842 has 3 MA's),

Gene: Lockley_73 Start: 46285, Stop: 45986, Start Num: 106
Candidate Starts for Lockley_73:
(Start: 89 @46315 has 1 MA's), (Start: 106 @46285 has 188 MA's), (127, 46240), (Start: 129 @46237 has 2 MA's), (147, 46168), (153, 46117),

Gene: Lökk_78 Start: 45975, Stop: 45661, Start Num: 68
Candidate Starts for Lökk_78:
(Start: 68 @45975 has 5 MA's), (92, 45948), (Start: 97 @45939 has 14 MA's), (143, 45852),

Gene: LoneWolf_87 Start: 48048, Stop: 47776, Start Num: 109
Candidate Starts for LoneWolf_87:
(Start: 109 @48048 has 32 MA's), (Start: 116 @48030 has 17 MA's), (127, 48009), (Start: 129 @48006 has 2 MA's),

Gene: Lopton_75 Start: 48247, Stop: 47948, Start Num: 106
Candidate Starts for Lopton_75:
(Start: 89 @48277 has 1 MA's), (Start: 106 @48247 has 188 MA's), (127, 48202), (Start: 129 @48199 has 2 MA's), (147, 48130), (153, 48079),

Gene: Lorenzo_75 Start: 45645, Stop: 45346, Start Num: 70
Candidate Starts for Lorenzo_75:
(Start: 70 @45645 has 146 MA's),

Gene: Loser_86 Start: 48364, Stop: 48065, Start Num: 72
Candidate Starts for Loser_86:
(Start: 72 @48364 has 38 MA's), (81, 48352), (Start: 85 @48349 has 1 MA's), (87, 48346), (Start: 101 @48325 has 18 MA's), (111, 48304),

Gene: Luchador_82 Start: 47356, Stop: 47087, Start Num: 109
Candidate Starts for Luchador_82:
(49, 47488), (53, 47476), (78, 47413), (Start: 109 @47356 has 32 MA's), (127, 47326), (130, 47320), (145, 47272),

Gene: Lucyedi_82 Start: 47034, Stop: 46771, Start Num: 109
Candidate Starts for Lucyedi_82:
(9, 47598), (28, 47280), (Start: 109 @47034 has 32 MA's), (130, 46998), (131, 46995),

Gene: LunaBlu_43 Start: 32418, Stop: 32182, Start Num: 106
Candidate Starts for LunaBlu_43:
(Start: 106 @32418 has 188 MA's), (127, 32373), (Start: 129 @32370 has 2 MA's), (147, 32301), (153, 32250),

Gene: Lunsford_72 Start: 45640, Stop: 45341, Start Num: 70
Candidate Starts for Lunsford_72:
(Start: 70 @45640 has 146 MA's), (Start: 103 @45598 has 3 MA's),

Gene: MPlant7149_76 Start: 46801, Stop: 46502, Start Num: 106
Candidate Starts for MPlant7149_76:
(Start: 89 @46831 has 1 MA's), (Start: 106 @46801 has 188 MA's), (127, 46756), (Start: 129 @46753 has 2 MA's), (147, 46684), (153, 46633),

Gene: Magnar_72 Start: 45929, Stop: 45630, Start Num: 106

Candidate Starts for Magnar_72:

(Start: 89 @45959 has 1 MA's), (Start: 106 @45929 has 188 MA's), (127, 45884), (Start: 129 @45881 has 2 MA's), (147, 45812), (153, 45761),

Gene: Magnito_75 Start: 46242, Stop: 45943, Start Num: 106

Candidate Starts for Magnito_75:

(Start: 106 @46242 has 188 MA's), (127, 46197), (Start: 129 @46194 has 2 MA's), (147, 46125), (153, 46074),

Gene: Makemake_79 Start: 47852, Stop: 47553, Start Num: 106

Candidate Starts for Makemake_79:

(Start: 89 @47882 has 1 MA's), (Start: 106 @47852 has 188 MA's), (127, 47807), (Start: 129 @47804 has 2 MA's), (147, 47735), (153, 47684),

Gene: Malec_82 Start: 48043, Stop: 47726, Start Num: 72

Candidate Starts for Malec_82:

(Start: 72 @48043 has 38 MA's), (Start: 73 @48040 has 2 MA's), (Start: 101 @48001 has 18 MA's), (111, 47980), (156, 47815),

Gene: Maminiaina_86 Start: 47971, Stop: 47693, Start Num: 109

Candidate Starts for Maminiaina_86:

(Start: 109 @47971 has 32 MA's), (127, 47932),

Gene: Manatee_74 Start: 45782, Stop: 45483, Start Num: 106

Candidate Starts for Manatee_74:

(Start: 89 @45812 has 1 MA's), (Start: 106 @45782 has 188 MA's), (127, 45737), (Start: 129 @45734 has 2 MA's), (147, 45665),

Gene: Marcell_69 Start: 44549, Stop: 44250, Start Num: 106

Candidate Starts for Marcell_69:

(71, 44609), (Start: 106 @44549 has 188 MA's), (127, 44504), (Start: 129 @44501 has 2 MA's), (147, 44432), (153, 44381),

Gene: Marge_73 Start: 46046, Stop: 45747, Start Num: 106

Candidate Starts for Marge_73:

(71, 46106), (Start: 106 @46046 has 188 MA's), (127, 46001), (Start: 129 @45998 has 2 MA's), (147, 45929), (148, 45917), (153, 45878),

Gene: Maroc7_78 Start: 48845, Stop: 48546, Start Num: 106

Candidate Starts for Maroc7_78:

(71, 48905), (Start: 106 @48845 has 188 MA's), (127, 48800), (Start: 129 @48797 has 2 MA's), (147, 48728), (153, 48677),

Gene: Marsha_76 Start: 48488, Stop: 48189, Start Num: 106

Candidate Starts for Marsha_76:

(Start: 106 @48488 has 188 MA's), (127, 48443), (Start: 129 @48440 has 2 MA's), (147, 48371), (153, 48320),

Gene: MaryBeth_74 Start: 47072, Stop: 46773, Start Num: 106

Candidate Starts for MaryBeth_74:

(Start: 89 @47102 has 1 MA's), (Start: 106 @47072 has 188 MA's), (127, 47027), (Start: 129 @47024 has 2 MA's), (147, 46955), (153, 46904),

Gene: MarysWell_70 Start: 44501, Stop: 44202, Start Num: 95

Candidate Starts for MarysWell_70:

(90, 44513), (Start: 95 @44501 has 7 MA's), (Start: 100 @44495 has 2 MA's), (155, 44318),

Gene: Maverick_74 Start: 45644, Stop: 45345, Start Num: 70

Candidate Starts for Maverick_74:

(Start: 70 @45644 has 146 MA's), (Start: 103 @45602 has 3 MA's),

Gene: Maxo_77 Start: 45650, Stop: 45351, Start Num: 70

Candidate Starts for Maxo_77:

(Start: 70 @45650 has 146 MA's), (Start: 103 @45608 has 3 MA's),

Gene: Mazhar510_75 Start: 45645, Stop: 45346, Start Num: 70

Candidate Starts for Mazhar510_75:

(Start: 70 @45645 has 146 MA's), (Start: 103 @45603 has 3 MA's),

Gene: McFly_83 Start: 45909, Stop: 45619, Start Num: 70

Candidate Starts for McFly_83:

(29, 46053), (33, 46023), (50, 45957), (Start: 52 @45951 has 1 MA's), (Start: 70 @45909 has 146 MA's), (Start: 103 @45867 has 3 MA's), (Start: 105 @45864 has 5 MA's), (Start: 108 @45858 has 1 MA's), (Start: 109 @45855 has 32 MA's), (112, 45846), (139, 45789),

Gene: McGuire_76 Start: 46085, Stop: 45786, Start Num: 106

Candidate Starts for McGuire_76:

(71, 46145), (Start: 106 @46085 has 188 MA's), (127, 46040), (Start: 129 @46037 has 2 MA's), (147, 45968), (153, 45917),

Gene: Medusa_74 Start: 45660, Stop: 45361, Start Num: 70

Candidate Starts for Medusa_74:

(Start: 70 @45660 has 146 MA's), (Start: 103 @45618 has 3 MA's),

Gene: MeeZee_74 Start: 45641, Stop: 45342, Start Num: 70

Candidate Starts for MeeZee_74:

(Start: 70 @45641 has 146 MA's), (Start: 103 @45599 has 3 MA's),

Gene: Melissauren88_39 Start: 31545, Stop: 31309, Start Num: 106

Candidate Starts for Melissauren88_39:

(Start: 106 @31545 has 188 MA's), (127, 31500), (Start: 129 @31497 has 2 MA's), (147, 31428), (153, 31377),

Gene: Melvin_77 Start: 45642, Stop: 45343, Start Num: 70

Candidate Starts for Melvin_77:

(Start: 70 @45642 has 146 MA's), (Start: 103 @45600 has 3 MA's),

Gene: MetalQZJ_73 Start: 47072, Stop: 46773, Start Num: 106

Candidate Starts for MetalQZJ_73:

(Start: 89 @47102 has 1 MA's), (Start: 106 @47072 has 188 MA's), (127, 47027), (Start: 129 @47024 has 2 MA's), (147, 46955), (153, 46904),

Gene: Micasa_68 Start: 44223, Stop: 43924, Start Num: 95

Candidate Starts for Micasa_68:

(90, 44235), (Start: 95 @44223 has 7 MA's), (Start: 100 @44217 has 2 MA's), (119, 44181), (126, 44169), (150, 44079), (155, 44040),

Gene: Michley_77 Start: 46813, Stop: 46514, Start Num: 106

Candidate Starts for Michley_77:

(71, 46873), (Start: 106 @46813 has 188 MA's), (127, 46768), (Start: 129 @46765 has 2 MA's), (147, 46696), (153, 46645),

Gene: MiculUcigas_83 Start: 47170, Stop: 46859, Start Num: 72

Candidate Starts for MiculUcigas_83:

(Start: 72 @47170 has 38 MA's), (79, 47158), (Start: 85 @47152 has 1 MA's), (Start: 101 @47128 has 18 MA's), (Start: 105 @47122 has 5 MA's), (111, 47107),

Gene: Midas2_67 Start: 44122, Stop: 43820, Start Num: 93

Candidate Starts for Midas2_67:

(Start: 93 @44122 has 6 MA's), (123, 44071), (124, 44068), (152, 43960), (155, 43936),

Gene: Miko_78 Start: 46737, Stop: 46423, Start Num: 68

Candidate Starts for Miko_78:

(Start: 68 @46737 has 5 MA's), (92, 46710), (Start: 97 @46701 has 14 MA's),

Gene: Milcery_70 Start: 44007, Stop: 43711, Start Num: 97

Candidate Starts for Milcery_70:

(Start: 97 @44007 has 14 MA's), (Start: 110 @43986 has 1 MA's), (112, 43980), (150, 43866), (152, 43851), (155, 43827),

Gene: Millski_74 Start: 45648, Stop: 45349, Start Num: 70

Candidate Starts for Millski_74:

(Start: 70 @45648 has 146 MA's), (Start: 103 @45606 has 3 MA's),

Gene: Miramae_74 Start: 45242, Stop: 44946, Start Num: 69

Candidate Starts for Miramae_74:

(Start: 69 @45242 has 5 MA's), (Start: 101 @45221 has 18 MA's), (Start: 110 @45203 has 1 MA's), (138, 45134),

Gene: MissWhite_76 Start: 44037, Stop: 43771, Start Num: 109

Candidate Starts for MissWhite_76:

(8, 44595), (28, 44283), (Start: 109 @44037 has 32 MA's), (122, 44019), (130, 44001), (140, 43965), (155, 43869),

Gene: Molly_76 Start: 46458, Stop: 46159, Start Num: 106

Candidate Starts for Molly_76:

(Start: 89 @46488 has 1 MA's), (Start: 106 @46458 has 188 MA's), (127, 46413), (Start: 129 @46410 has 2 MA's), (147, 46341), (153, 46290),

Gene: Monet_80 Start: 48495, Stop: 48196, Start Num: 106

Candidate Starts for Monet_80:

(71, 48555), (Start: 106 @48495 has 188 MA's), (127, 48450), (Start: 129 @48447 has 2 MA's), (147, 48378), (153, 48327),

Gene: Moose_78 Start: 47631, Stop: 47332, Start Num: 106

Candidate Starts for Moose_78:

(Start: 89 @47661 has 1 MA's), (Start: 106 @47631 has 188 MA's), (127, 47586), (Start: 129 @47583 has 2 MA's), (147, 47514), (153, 47463),

Gene: Morpher26_74 Start: 45732, Stop: 45418, Start Num: 46

Candidate Starts for Morpher26_74:

(Start: 46 @45732 has 2 MA's), (Start: 47 @45729 has 12 MA's), (Start: 56 @45711 has 2 MA's), (57, 45708), (75, 45678), (Start: 110 @45666 has 1 MA's), (Start: 129 @45627 has 2 MA's), (139, 45594),

Gene: Morrow_77 Start: 45687, Stop: 45388, Start Num: 70

Candidate Starts for Morrow_77:

(Start: 70 @45687 has 146 MA's), (Start: 103 @45645 has 3 MA's),

Gene: MrGordo_77 Start: 46387, Stop: 46088, Start Num: 106

Candidate Starts for MrGordo_77:

(94, 46405), (Start: 106 @46387 has 188 MA's), (127, 46342), (Start: 129 @46339 has 2 MA's), (147, 46270), (153, 46219),

Gene: Mryolo_71 Start: 45416, Stop: 45117, Start Num: 106

Candidate Starts for Mryolo_71:

(Start: 89 @45446 has 1 MA's), (Start: 106 @45416 has 188 MA's), (127, 45371), (Start: 129 @45368 has 2 MA's), (147, 45299), (153, 45248),

Gene: Mule_75 Start: 46498, Stop: 46199, Start Num: 106

Candidate Starts for Mule_75:

(Start: 89 @46528 has 1 MA's), (Start: 106 @46498 has 188 MA's), (127, 46453), (Start: 129 @46450 has 2 MA's), (147, 46381), (153, 46330),

Gene: Mundrea_74 Start: 45707, Stop: 45417, Start Num: 69

Candidate Starts for Mundrea_74:

(Start: 69 @45707 has 5 MA's), (Start: 101 @45686 has 18 MA's), (Start: 110 @45668 has 1 MA's), (Start: 113 @45659 has 1 MA's), (139, 45596),

Gene: Museum_76 Start: 47521, Stop: 47222, Start Num: 106

Candidate Starts for Museum_76:

(Start: 89 @47551 has 1 MA's), (Start: 106 @47521 has 188 MA's), (127, 47476), (Start: 129 @47473 has 2 MA's), (147, 47404), (153, 47353),

Gene: MyraDee_79 Start: 44293, Stop: 44003, Start Num: 109

Candidate Starts for MyraDee_79:

(Start: 109 @44293 has 32 MA's), (127, 44254),

Gene: Myxus_87 Start: 48032, Stop: 47766, Start Num: 116

Candidate Starts for Myxus_87:

(Start: 109 @48050 has 32 MA's), (Start: 116 @48032 has 17 MA's), (127, 48011), (150, 47915),

Gene: NEHalo_72 Start: 46331, Stop: 46032, Start Num: 106

Candidate Starts for NEHalo_72:

(Start: 89 @46361 has 1 MA's), (Start: 106 @46331 has 188 MA's), (127, 46286), (Start: 129 @46283 has 2 MA's), (147, 46214), (153, 46163),

Gene: NaSiaTalie_84 Start: 47457, Stop: 47146, Start Num: 72

Candidate Starts for NaSiaTalie_84:

(Start: 72 @47457 has 38 MA's), (79, 47445), (Start: 101 @47415 has 18 MA's), (Start: 105 @47409 has 5 MA's), (111, 47394),

Gene: Naca_73 Start: 45403, Stop: 45119, Start Num: 107

Candidate Starts for Naca_73:

(Start: 100 @45415 has 2 MA's), (Start: 107 @45403 has 8 MA's), (121, 45376), (150, 45271), (153, 45247),

Gene: Naira_78 Start: 48004, Stop: 47705, Start Num: 106

Candidate Starts for Naira_78:

(71, 48064), (Start: 106 @48004 has 188 MA's), (127, 47959), (Start: 129 @47956 has 2 MA's), (147, 47887), (153, 47836),

Gene: Nebs_76 Start: 45687, Stop: 45388, Start Num: 70

Candidate Starts for Nebs_76:

(Start: 70 @45687 has 146 MA's), (Start: 103 @45645 has 3 MA's),

Gene: Neeharika16_81 Start: 45701, Stop: 45369, Start Num: 52

Candidate Starts for Neeharika16_81:

(29, 45803), (33, 45773), (50, 45707), (Start: 52 @45701 has 1 MA's), (Start: 70 @45659 has 146 MA's), (Start: 103 @45617 has 3 MA's), (Start: 105 @45614 has 5 MA's), (Start: 108 @45608 has 1 MA's), (Start: 109 @45605 has 32 MA's), (112, 45596), (139, 45539),

Gene: Nemo27_74 Start: 45643, Stop: 45344, Start Num: 70

Candidate Starts for Nemo27_74:

(Start: 70 @45643 has 146 MA's), (Start: 103 @45601 has 3 MA's),

Gene: Nerujay_80 Start: 48773, Stop: 48474, Start Num: 106

Candidate Starts for Nerujay_80:

(30, 48980), (35, 48953), (44, 48911), (45, 48908), (53, 48881), (60, 48869), (64, 48860), (Start: 68 @48845 has 5 MA's), (Start: 73 @48830 has 2 MA's), (94, 48791), (Start: 106 @48773 has 188 MA's), (127, 48728), (Start: 129 @48725 has 2 MA's), (147, 48656), (153, 48605),

Gene: Newrala_82 Start: 45995, Stop: 45705, Start Num: 70

Candidate Starts for Newrala_82:

(29, 46139), (33, 46109), (50, 46043), (Start: 52 @46037 has 1 MA's), (Start: 70 @45995 has 146 MA's), (Start: 103 @45953 has 3 MA's), (Start: 105 @45950 has 5 MA's), (Start: 108 @45944 has 1 MA's), (Start: 109 @45941 has 32 MA's), (112, 45932), (139, 45875),

Gene: Nhonho_72 Start: 46492, Stop: 46193, Start Num: 106

Candidate Starts for Nhonho_72:

(Start: 100 @46501 has 2 MA's), (Start: 106 @46492 has 188 MA's), (127, 46447), (Start: 129 @46444 has 2 MA's), (147, 46375), (153, 46324),

Gene: NicoleTera_81 Start: 47391, Stop: 47083, Start Num: 72

Candidate Starts for NicoleTera_81:

(Start: 72 @47391 has 38 MA's), (Start: 101 @47352 has 18 MA's), (111, 47331),

Gene: Niza_76 Start: 47804, Stop: 47505, Start Num: 106

Candidate Starts for Niza_76:

(Start: 89 @47834 has 1 MA's), (Start: 106 @47804 has 188 MA's), (127, 47759), (Start: 129 @47756 has 2 MA's), (147, 47687), (153, 47636),

Gene: Noella_80 Start: 46000, Stop: 45722, Start Num: 109
Candidate Starts for Noella_80:
(Start: 95 @46021 has 7 MA's), (Start: 107 @46003 has 8 MA's), (Start: 109 @46000 has 32 MA's),

Gene: Noelle_75 Start: 46056, Stop: 45739, Start Num: 47
Candidate Starts for Noelle_75:
(Start: 46 @46059 has 2 MA's), (Start: 47 @46056 has 12 MA's), (Start: 56 @46038 has 2 MA's), (57, 46035), (Start: 110 @45990 has 1 MA's), (Start: 129 @45951 has 2 MA's), (139, 45918),

Gene: NorthStar_72 Start: 45647, Stop: 45348, Start Num: 70
Candidate Starts for NorthStar_72:
(Start: 70 @45647 has 146 MA's), (Start: 103 @45605 has 3 MA's),

Gene: Norz_72 Start: 47994, Stop: 47695, Start Num: 106
Candidate Starts for Norz_72:
(71, 48054), (Start: 106 @47994 has 188 MA's), (127, 47949), (Start: 129 @47946 has 2 MA's), (147, 47877), (153, 47826),

Gene: NotAPhaseMom_74 Start: 45648, Stop: 45349, Start Num: 70
Candidate Starts for NotAPhaseMom_74:
(Start: 70 @45648 has 146 MA's), (Start: 103 @45606 has 3 MA's),

Gene: NothingSpecial_78 Start: 47348, Stop: 47028, Start Num: 76
Candidate Starts for NothingSpecial_78:
(1, 48203), (7, 47891), (19, 47591), (Start: 76 @47348 has 2 MA's), (87, 47333), (Start: 97 @47315 has 14 MA's), (Start: 108 @47300 has 1 MA's), (112, 47288), (159, 47120),

Gene: Nyxis_74 Start: 45526, Stop: 45227, Start Num: 70
Candidate Starts for Nyxis_74:
(Start: 70 @45526 has 146 MA's), (Start: 103 @45484 has 3 MA's),

Gene: OKCentral2016_82 Start: 47617, Stop: 47324, Start Num: 102
Candidate Starts for OKCentral2016_82:
(16, 47977), (23, 47881), (Start: 102 @47617 has 15 MA's), (131, 47563),

Gene: OKaNui_74 Start: 45697, Stop: 45398, Start Num: 70
Candidate Starts for OKaNui_74:
(Start: 70 @45697 has 146 MA's), (Start: 103 @45655 has 3 MA's),

Gene: Obama12_76 Start: 46071, Stop: 45769, Start Num: 70
Candidate Starts for Obama12_76:
(Start: 70 @46071 has 146 MA's), (Start: 103 @46029 has 3 MA's), (139, 45951),

Gene: Ohfah_76 Start: 45687, Stop: 45388, Start Num: 70
Candidate Starts for Ohfah_76:
(Start: 70 @45687 has 146 MA's), (Start: 103 @45645 has 3 MA's),

Gene: Ohno789_79 Start: 48554, Stop: 48255, Start Num: 106
Candidate Starts for Ohno789_79:
(Start: 89 @48584 has 1 MA's), (Start: 106 @48554 has 188 MA's), (127, 48509), (Start: 129 @48506 has 2 MA's), (147, 48437), (153, 48386),

Gene: Oogway_75 Start: 47385, Stop: 47086, Start Num: 106

Candidate Starts for Oogway_75:

(71, 47445), (Start: 106 @47385 has 188 MA's), (127, 47340), (Start: 129 @47337 has 2 MA's), (147, 47268), (153, 47217),

Gene: PSullivan_72 Start: 45604, Stop: 45305, Start Num: 106

Candidate Starts for PSullivan_72:

(Start: 89 @45634 has 1 MA's), (Start: 106 @45604 has 188 MA's), (127, 45559), (Start: 129 @45556 has 2 MA's), (147, 45487), (153, 45436),

Gene: PacerPaul_81 Start: 48867, Stop: 48568, Start Num: 106

Candidate Starts for PacerPaul_81:

(71, 48927), (Start: 106 @48867 has 188 MA's), (127, 48822), (Start: 129 @48819 has 2 MA's), (147, 48750), (153, 48699),

Gene: PainterBoy_82 Start: 46744, Stop: 46481, Start Num: 109

Candidate Starts for PainterBoy_82:

(9, 47308), (28, 46990), (Start: 109 @46744 has 32 MA's), (130, 46708), (131, 46705),

Gene: Palestino_74 Start: 45644, Stop: 45345, Start Num: 70

Candidate Starts for Palestino_74:

(Start: 70 @45644 has 146 MA's), (Start: 103 @45602 has 3 MA's),

Gene: Panamaxus_76 Start: 45999, Stop: 45721, Start Num: 109

Candidate Starts for Panamaxus_76:

(Start: 95 @46020 has 7 MA's), (Start: 107 @46002 has 8 MA's), (Start: 109 @45999 has 32 MA's), (117, 45981),

Gene: Papez_78 Start: 47995, Stop: 47696, Start Num: 106

Candidate Starts for Papez_78:

(71, 48055), (Start: 106 @47995 has 188 MA's), (127, 47950), (Start: 129 @47947 has 2 MA's), (147, 47878), (153, 47827),

Gene: Paphu_71 Start: 46029, Stop: 45730, Start Num: 106

Candidate Starts for Paphu_71:

(Start: 89 @46059 has 1 MA's), (Start: 106 @46029 has 188 MA's), (127, 45984), (Start: 129 @45981 has 2 MA's), (147, 45912), (153, 45861),

Gene: Paraselene_74 Start: 46678, Stop: 46379, Start Num: 106

Candidate Starts for Paraselene_74:

(71, 46738), (Start: 106 @46678 has 188 MA's), (127, 46633), (Start: 129 @46630 has 2 MA's), (147, 46561), (153, 46510),

Gene: Pari_81 Start: 47398, Stop: 47099, Start Num: 106

Candidate Starts for Pari_81:

(Start: 89 @47428 has 1 MA's), (Start: 106 @47398 has 188 MA's), (127, 47353), (Start: 129 @47350 has 2 MA's), (147, 47281), (153, 47230),

Gene: Parliament_77 Start: 49579, Stop: 49280, Start Num: 106

Candidate Starts for Parliament_77:

(Start: 89 @49609 has 1 MA's), (Start: 106 @49579 has 188 MA's), (127, 49534), (Start: 129 @49531 has 2 MA's), (147, 49462), (153, 49411),

Gene: PascalRango_74 Start: 46673, Stop: 46374, Start Num: 106

Candidate Starts for PascalRango_74:

(Start: 89 @46703 has 1 MA's), (Start: 106 @46673 has 188 MA's), (127, 46628), (Start: 129 @46625 has 2 MA's), (147, 46556), (153, 46505),

Gene: PattyP_76 Start: 47227, Stop: 46928, Start Num: 106

Candidate Starts for PattyP_76:

(Start: 89 @47257 has 1 MA's), (Start: 106 @47227 has 188 MA's), (127, 47182), (Start: 129 @47179 has 2 MA's), (147, 47110), (153, 47059),

Gene: PeaceMeal1_80 Start: 47544, Stop: 47254, Start Num: 102

Candidate Starts for PeaceMeal1_80:

(2, 48351), (3, 48330), (4, 48318), (16, 47904), (23, 47808), (Start: 102 @47544 has 15 MA's), (112, 47529), (125, 47511),

Gene: Peaches_73 Start: 45646, Stop: 45347, Start Num: 70

Candidate Starts for Peaches_73:

(Start: 70 @45646 has 146 MA's), (Start: 103 @45604 has 3 MA's),

Gene: Pelly_77 Start: 49760, Stop: 49461, Start Num: 106

Candidate Starts for Pelly_77:

(Start: 89 @49790 has 1 MA's), (Start: 106 @49760 has 188 MA's), (127, 49715), (Start: 129 @49712 has 2 MA's), (147, 49643), (153, 49592),

Gene: Pepe_70 Start: 44682, Stop: 44383, Start Num: 106

Candidate Starts for Pepe_70:

(71, 44742), (Start: 106 @44682 has 188 MA's), (127, 44637), (Start: 129 @44634 has 2 MA's), (147, 44565), (153, 44514),

Gene: Perplexer_74 Start: 45711, Stop: 45394, Start Num: 47

Candidate Starts for Perplexer_74:

(Start: 46 @45714 has 2 MA's), (Start: 47 @45711 has 12 MA's), (Start: 54 @45696 has 1 MA's), (75, 45660), (Start: 110 @45645 has 1 MA's), (Start: 129 @45606 has 2 MA's), (139, 45573),

Gene: Perseus_76 Start: 48660, Stop: 48361, Start Num: 106

Candidate Starts for Perseus_76:

(Start: 89 @48690 has 1 MA's), (Start: 106 @48660 has 188 MA's), (127, 48615), (Start: 129 @48612 has 2 MA's), (147, 48543), (153, 48492),

Gene: PeterPeter_75 Start: 45641, Stop: 45342, Start Num: 70

Candidate Starts for PeterPeter_75:

(Start: 70 @45641 has 146 MA's), (Start: 103 @45599 has 3 MA's),

Gene: Peterson_75 Start: 47826, Stop: 47527, Start Num: 106

Candidate Starts for Peterson_75:

(71, 47886), (Start: 106 @47826 has 188 MA's), (127, 47781), (Start: 129 @47778 has 2 MA's), (147, 47709), (153, 47658),

Gene: PetiteSangsue_74 Start: 45714, Stop: 45397, Start Num: 47

Candidate Starts for PetiteSangsue_74:

(Start: 46 @45717 has 2 MA's), (Start: 47 @45714 has 12 MA's), (Start: 54 @45699 has 1 MA's), (75, 45663), (Start: 110 @45648 has 1 MA's), (Start: 129 @45609 has 2 MA's), (139, 45576),

Gene: Petp2012_77 Start: 48008, Stop: 47709, Start Num: 106

Candidate Starts for Petp2012_77:

(71, 48068), (Start: 106 @48008 has 188 MA's), (127, 47963), (Start: 129 @47960 has 2 MA's), (147, 47891), (153, 47840),

Gene: Petruccio_76 Start: 46087, Stop: 45788, Start Num: 106

Candidate Starts for Petruccio_76:

(Start: 106 @46087 has 188 MA's), (127, 46042), (Start: 129 @46039 has 2 MA's), (147, 45970), (153, 45919),

Gene: PetterN_78 Start: 45190, Stop: 44906, Start Num: 107

Candidate Starts for PetterN_78:

(Start: 100 @45202 has 2 MA's), (Start: 107 @45190 has 8 MA's), (121, 45163), (150, 45058), (153, 45034),

Gene: Phacado_75 Start: 45643, Stop: 45344, Start Num: 70

Candidate Starts for Phacado_75:

(Start: 70 @45643 has 146 MA's), (Start: 103 @45601 has 3 MA's),

Gene: Phaded_76 Start: 48095, Stop: 47787, Start Num: 70

Candidate Starts for Phaded_76:

(Start: 70 @48095 has 146 MA's), (Start: 103 @48053 has 3 MA's), (Start: 129 @47993 has 2 MA's),

Gene: Phaeder_87 Start: 47907, Stop: 47641, Start Num: 116

Candidate Starts for Phaeder_87:

(Start: 109 @47925 has 32 MA's), (Start: 116 @47907 has 17 MA's), (127, 47886), (150, 47790),

Gene: Pharaoh_77 Start: 47219, Stop: 46926, Start Num: 105

Candidate Starts for Pharaoh_77:

(Start: 105 @47219 has 5 MA's), (Start: 116 @47195 has 17 MA's), (118, 47192), (130, 47168), (141, 47135),

Gene: Phelipe_76 Start: 45687, Stop: 45388, Start Num: 70

Candidate Starts for Phelipe_76:

(Start: 70 @45687 has 146 MA's), (Start: 103 @45645 has 3 MA's),

Gene: PherrisBueller_75 Start: 44946, Stop: 44647, Start Num: 106

Candidate Starts for PherrisBueller_75:

(71, 45006), (Start: 106 @44946 has 188 MA's), (127, 44901), (Start: 129 @44898 has 2 MA's), (147, 44829), (153, 44778),

Gene: Phighter1804_75 Start: 45708, Stop: 45409, Start Num: 70

Candidate Starts for Phighter1804_75:

(Start: 70 @45708 has 146 MA's), (Start: 103 @45666 has 3 MA's),

Gene: Phlorence_69 Start: 44013, Stop: 43717, Start Num: 97

Candidate Starts for Phlorence_69:

(Start: 97 @44013 has 14 MA's), (Start: 110 @43992 has 1 MA's),

Gene: Phonnegut_87 Start: 47920, Stop: 47657, Start Num: 116

Candidate Starts for Phonnegut_87:

(Start: 109 @47938 has 32 MA's), (Start: 116 @47920 has 17 MA's), (127, 47899), (150, 47803),

Gene: Phontbonne_75 Start: 45542, Stop: 45243, Start Num: 70

Candidate Starts for Phontbonne_75:
(Start: 70 @45542 has 146 MA's), (Start: 103 @45500 has 3 MA's),

Gene: PhrostyMug_78 Start: 48672, Stop: 48373, Start Num: 106
Candidate Starts for PhrostyMug_78:
(Start: 89 @48702 has 1 MA's), (Start: 106 @48672 has 188 MA's), (127, 48627), (Start: 129 @48624 has 2 MA's), (147, 48555), (153, 48504),

Gene: PickleBack_71 Start: 44188, Stop: 43892, Start Num: 97
Candidate Starts for PickleBack_71:
(Start: 97 @44188 has 14 MA's), (Start: 110 @44167 has 1 MA's), (155, 44008),

Gene: PinkPlastic_72 Start: 45594, Stop: 45295, Start Num: 106
Candidate Starts for PinkPlastic_72:
(71, 45654), (Start: 106 @45594 has 188 MA's), (127, 45549), (Start: 129 @45546 has 2 MA's), (147, 45477), (153, 45426),

Gene: Pinto_76 Start: 47457, Stop: 47158, Start Num: 106
Candidate Starts for Pinto_76:
(71, 47517), (Start: 106 @47457 has 188 MA's), (127, 47412), (Start: 129 @47409 has 2 MA's), (135, 47391), (147, 47340), (153, 47289),

Gene: Pioneer_87 Start: 47920, Stop: 47657, Start Num: 116
Candidate Starts for Pioneer_87:
(Start: 109 @47938 has 32 MA's), (Start: 116 @47920 has 17 MA's), (127, 47899), (150, 47803),

Gene: Pipcraft_71 Start: 45648, Stop: 45349, Start Num: 70
Candidate Starts for Pipcraft_71:
(Start: 70 @45648 has 146 MA's), (Start: 103 @45606 has 3 MA's),

Gene: Pippin_77 Start: 47099, Stop: 46800, Start Num: 106
Candidate Starts for Pippin_77:
(71, 47159), (Start: 106 @47099 has 188 MA's), (127, 47054), (Start: 129 @47051 has 2 MA's), (147, 46982), (153, 46931),

Gene: Piro94_82 Start: 47405, Stop: 47094, Start Num: 72
Candidate Starts for Piro94_82:
(Start: 72 @47405 has 38 MA's), (79, 47393), (Start: 105 @47357 has 5 MA's), (111, 47342),

Gene: Pita2_77 Start: 47100, Stop: 46801, Start Num: 106
Candidate Starts for Pita2_77:
(Start: 89 @47130 has 1 MA's), (Start: 106 @47100 has 188 MA's), (127, 47055), (Start: 129 @47052 has 2 MA's), (147, 46983), (153, 46932),

Gene: Pmask_82 Start: 46196, Stop: 45906, Start Num: 70
Candidate Starts for Pmask_82:
(29, 46340), (33, 46310), (50, 46244), (Start: 52 @46238 has 1 MA's), (Start: 70 @46196 has 146 MA's), (Start: 103 @46154 has 3 MA's), (Start: 105 @46151 has 5 MA's), (Start: 108 @46145 has 1 MA's), (Start: 109 @46142 has 32 MA's), (112, 46133), (139, 46076),

Gene: Pocahontas_78 Start: 45995, Stop: 45717, Start Num: 109
Candidate Starts for Pocahontas_78:

(Start: 95 @46016 has 7 MA's), (Start: 107 @45998 has 8 MA's), (Start: 109 @45995 has 32 MA's), (117, 45977),

Gene: Polymorphads_76 Start: 45668, Stop: 45369, Start Num: 70
Candidate Starts for Polymorphads_76:
(Start: 70 @45668 has 146 MA's),

Gene: Poompha_80 Start: 47542, Stop: 47252, Start Num: 102
Candidate Starts for Poompha_80:
(22, 47818), (Start: 102 @47542 has 15 MA's), (112, 47527), (125, 47509),

Gene: Popcicle_79 Start: 45995, Stop: 45717, Start Num: 109
Candidate Starts for Popcicle_79:
(Start: 95 @46016 has 7 MA's), (Start: 107 @45998 has 8 MA's), (Start: 109 @45995 has 32 MA's), (117, 45977),

Gene: Power_83 Start: 47968, Stop: 47660, Start Num: 72
Candidate Starts for Power_83:
(Start: 72 @47968 has 38 MA's), (Start: 105 @47920 has 5 MA's), (111, 47905), (133, 47863), (157, 47746),

Gene: Priamo_85 Start: 45857, Stop: 45609, Start Num: 103
Candidate Starts for Priamo_85:
(Start: 70 @45899 has 146 MA's), (Start: 103 @45857 has 3 MA's), (Start: 105 @45854 has 5 MA's), (Start: 108 @45848 has 1 MA's), (Start: 109 @45845 has 32 MA's), (112, 45836), (139, 45779),

Gene: Priya_85 Start: 47691, Stop: 47428, Start Num: 116
Candidate Starts for Priya_85:
(Start: 109 @47709 has 32 MA's), (Start: 116 @47691 has 17 MA's), (127, 47670), (150, 47574),

Gene: Pukovnik_77 Start: 47566, Stop: 47252, Start Num: 70
Candidate Starts for Pukovnik_77:
(Start: 70 @47566 has 146 MA's), (Start: 103 @47524 has 3 MA's), (139, 47446), (159, 47344),

Gene: Pumbaa_75 Start: 45592, Stop: 45293, Start Num: 70
Candidate Starts for Pumbaa_75:
(Start: 70 @45592 has 146 MA's), (Start: 103 @45550 has 3 MA's),

Gene: QTRlifeCrisis_76 Start: 46442, Stop: 46143, Start Num: 106
Candidate Starts for QTRlifeCrisis_76:
(Start: 106 @46442 has 188 MA's), (127, 46397), (Start: 129 @46394 has 2 MA's), (147, 46325), (153, 46274),

Gene: Qobbit_85 Start: 47653, Stop: 47390, Start Num: 116
Candidate Starts for Qobbit_85:
(Start: 109 @47671 has 32 MA's), (Start: 116 @47653 has 17 MA's), (127, 47632), (150, 47536),

Gene: QueenB2_80 Start: 47058, Stop: 46753, Start Num: 72
Candidate Starts for QueenB2_80:
(Start: 72 @47058 has 38 MA's), (Start: 105 @47013 has 5 MA's), (157, 46839),

Gene: QueenBeesly_83 Start: 47765, Stop: 47457, Start Num: 72
Candidate Starts for QueenBeesly_83:

(Start: 72 @47765 has 38 MA's), (Start: 105 @47717 has 5 MA's), (111, 47702), (133, 47660), (157, 47543),

Gene: Rachaly_80 Start: 46883, Stop: 46569, Start Num: 68

Candidate Starts for Rachaly_80:

(Start: 68 @46883 has 5 MA's), (92, 46856), (Start: 97 @46847 has 14 MA's), (143, 46760),

Gene: Rahalelujah_86 Start: 47466, Stop: 47197, Start Num: 109

Candidate Starts for Rahalelujah_86:

(Start: 109 @47466 has 32 MA's), (Start: 116 @47448 has 17 MA's), (127, 47427),

Gene: Rajelicia_78 Start: 49280, Stop: 48981, Start Num: 106

Candidate Starts for Rajelicia_78:

(71, 49340), (Start: 106 @49280 has 188 MA's), (127, 49235), (Start: 129 @49232 has 2 MA's), (147, 49163), (153, 49112),

Gene: Rebeuca_84 Start: 48801, Stop: 48520, Start Num: 102

Candidate Starts for Rebeuca_84:

(13, 49209), (18, 49113), (88, 48825), (Start: 102 @48801 has 15 MA's),

Gene: RedRock_83 Start: 48017, Stop: 47718, Start Num: 72

Candidate Starts for RedRock_83:

(Start: 72 @48017 has 38 MA's), (81, 48005), (Start: 85 @48002 has 1 MA's), (87, 47999), (Start: 101 @47978 has 18 MA's), (111, 47957),

Gene: Refuge_80 Start: 47830, Stop: 47555, Start Num: 105

Candidate Starts for Refuge_80:

(Start: 105 @47830 has 5 MA's), (114, 47809), (127, 47785), (132, 47773),

Gene: Relief_74 Start: 45644, Stop: 45345, Start Num: 70

Candidate Starts for Relief_74:

(Start: 70 @45644 has 146 MA's), (Start: 103 @45602 has 3 MA's),

Gene: Retro23_83 Start: 47489, Stop: 47184, Start Num: 72

Candidate Starts for Retro23_83:

(Start: 72 @47489 has 38 MA's), (Start: 105 @47444 has 5 MA's), (111, 47429), (133, 47387), (157, 47270),

Gene: RhynO_71 Start: 44245, Stop: 43955, Start Num: 102

Candidate Starts for RhynO_71:

(Start: 102 @44245 has 15 MA's),

Gene: Rhynn_72 Start: 46867, Stop: 46568, Start Num: 106

Candidate Starts for Rhynn_72:

(Start: 89 @46897 has 1 MA's), (Start: 106 @46867 has 188 MA's), (127, 46822), (Start: 129 @46819 has 2 MA's), (147, 46750), (148, 46738), (153, 46699),

Gene: Rifter_84 Start: 45121, Stop: 44810, Start Num: 101

Candidate Starts for Rifter_84:

(12, 45574), (25, 45367), (27, 45361), (67, 45193), (Start: 101 @45121 has 18 MA's), (Start: 109 @45103 has 32 MA's), (Start: 110 @45100 has 1 MA's), (111, 45097), (112, 45094), (115, 45085), (Start: 116 @45079 has 17 MA's), (118, 45076), (Start: 129 @45055 has 2 MA's), (137, 45019),

Gene: Ringer_76 Start: 47812, Stop: 47513, Start Num: 106

Candidate Starts for Ringer_76:

(Start: 100 @47821 has 2 MA's), (Start: 106 @47812 has 188 MA's), (127, 47767), (Start: 129 @47764 has 2 MA's), (147, 47695), (153, 47644),

Gene: Rohr_79 Start: 49063, Stop: 48764, Start Num: 106

Candidate Starts for Rohr_79:

(71, 49123), (Start: 106 @49063 has 188 MA's), (127, 49018), (Start: 129 @49015 has 2 MA's), (147, 48946), (153, 48895),

Gene: Roksolana_84 Start: 45837, Stop: 45574, Start Num: 101

Candidate Starts for Roksolana_84:

(21, 46137), (26, 46080), (27, 46077), (31, 46032), (67, 45909), (Start: 101 @45837 has 18 MA's), (Start: 110 @45825 has 1 MA's), (112, 45819), (Start: 129 @45780 has 2 MA's),

Gene: Romney_74 Start: 45644, Stop: 45345, Start Num: 70

Candidate Starts for Romney_74:

(Start: 70 @45644 has 146 MA's), (Start: 103 @45602 has 3 MA's),

Gene: Roosevelt_73 Start: 45649, Stop: 45350, Start Num: 70

Candidate Starts for Roosevelt_73:

(Start: 70 @45649 has 146 MA's), (Start: 103 @45607 has 3 MA's),

Gene: Rubeus_77 Start: 45563, Stop: 45264, Start Num: 106

Candidate Starts for Rubeus_77:

(71, 45623), (Start: 106 @45563 has 188 MA's), (127, 45518), (Start: 129 @45515 has 2 MA's), (147, 45446), (153, 45395),

Gene: Rufus_79 Start: 48252, Stop: 47953, Start Num: 106

Candidate Starts for Rufus_79:

(71, 48312), (Start: 106 @48252 has 188 MA's), (127, 48207), (Start: 129 @48204 has 2 MA's), (147, 48135), (153, 48084),

Gene: Ruin_75 Start: 45640, Stop: 45341, Start Num: 70

Candidate Starts for Ruin_75:

(Start: 70 @45640 has 146 MA's), (Start: 103 @45598 has 3 MA's),

Gene: Ruotula_80 Start: 48665, Stop: 48366, Start Num: 106

Candidate Starts for Ruotula_80:

(Start: 106 @48665 has 188 MA's), (111, 48653), (127, 48620), (Start: 129 @48617 has 2 MA's), (147, 48548), (153, 48497),

Gene: Rutherferd_78 Start: 47832, Stop: 47533, Start Num: 106

Candidate Starts for Rutherferd_78:

(Start: 106 @47832 has 188 MA's), (127, 47787), (Start: 129 @47784 has 2 MA's), (147, 47715), (153, 47664),

Gene: STLscum_82 Start: 47874, Stop: 47575, Start Num: 106

Candidate Starts for STLscum_82:

(Start: 89 @47904 has 1 MA's), (Start: 106 @47874 has 188 MA's), (127, 47829), (Start: 129 @47826 has 2 MA's), (147, 47757), (153, 47706),

Gene: Sabertooth_75 Start: 45652, Stop: 45353, Start Num: 70

Candidate Starts for Sabertooth_75:

(Start: 70 @45652 has 146 MA's), (Start: 103 @45610 has 3 MA's),

Gene: Sagefire_73 Start: 46922, Stop: 46623, Start Num: 106

Candidate Starts for Sagefire_73:

(71, 46982), (Start: 106 @46922 has 188 MA's), (127, 46877), (Start: 129 @46874 has 2 MA's), (147, 46805), (153, 46754),

Gene: Salz_79 Start: 45184, Stop: 44888, Start Num: 97

Candidate Starts for Salz_79:

(Start: 97 @45184 has 14 MA's), (104, 45175), (121, 45145), (126, 45136), (150, 45046),

Gene: SarFire_80 Start: 48896, Stop: 48597, Start Num: 106

Candidate Starts for SarFire_80:

(71, 48956), (Start: 106 @48896 has 188 MA's), (127, 48851), (Start: 129 @48848 has 2 MA's), (147, 48779), (153, 48728),

Gene: Scamp_75 Start: 45649, Stop: 45350, Start Num: 70

Candidate Starts for Scamp_75:

(Start: 70 @45649 has 146 MA's), (Start: 103 @45607 has 3 MA's),

Gene: Scherzo_85 Start: 47952, Stop: 47689, Start Num: 116

Candidate Starts for Scherzo_85:

(Start: 109 @47970 has 32 MA's), (Start: 116 @47952 has 17 MA's), (127, 47931), (150, 47835),

Gene: Scowl_77 Start: 47219, Stop: 46920, Start Num: 106

Candidate Starts for Scowl_77:

(71, 47279), (Start: 106 @47219 has 188 MA's), (127, 47174), (Start: 129 @47171 has 2 MA's), (147, 47102), (153, 47051),

Gene: Seabiscuit_77 Start: 46319, Stop: 46020, Start Num: 106

Candidate Starts for Seabiscuit_77:

(71, 46379), (Start: 106 @46319 has 188 MA's), (127, 46274), (Start: 129 @46271 has 2 MA's), (147, 46202), (153, 46151),

Gene: Seanderson_76 Start: 48623, Stop: 48324, Start Num: 106

Candidate Starts for Seanderson_76:

(71, 48683), (Start: 106 @48623 has 188 MA's), (127, 48578), (Start: 129 @48575 has 2 MA's), (147, 48506), (153, 48455),

Gene: SemperFi_83 Start: 47653, Stop: 47345, Start Num: 72

Candidate Starts for SemperFi_83:

(Start: 72 @47653 has 38 MA's), (Start: 105 @47605 has 5 MA's), (111, 47590), (133, 47548), (157, 47431),

Gene: Severus_81 Start: 47539, Stop: 47252, Start Num: 102

Candidate Starts for Severus_81:

(2, 48346), (3, 48325), (4, 48313), (16, 47899), (23, 47803), (Start: 102 @47539 has 15 MA's), (112, 47524), (125, 47506),

Gene: Shaka_73 Start: 45645, Stop: 45346, Start Num: 70

Candidate Starts for Shaka_73:

(Start: 70 @45645 has 146 MA's), (Start: 103 @45603 has 3 MA's),

Gene: SheaKeira_82 Start: 47212, Stop: 46940, Start Num: 109

Candidate Starts for SheaKeira_82:

(Start: 109 @47212 has 32 MA's), (Start: 116 @47194 has 17 MA's), (127, 47173),

Gene: Sheen_75 Start: 48554, Stop: 48285, Start Num: 113

Candidate Starts for Sheen_75:

(37, 48746), (42, 48728), (58, 48674), (61, 48671), (Start: 113 @48554 has 1 MA's), (120, 48542), (134, 48506), (136, 48500), (146, 48464), (150, 48425), (153, 48401),

Gene: SheldonCooper_75 Start: 46085, Stop: 45786, Start Num: 70

Candidate Starts for SheldonCooper_75:

(Start: 70 @46085 has 146 MA's), (Start: 103 @46043 has 3 MA's),

Gene: Shygu2_74 Start: 45745, Stop: 45449, Start Num: 70

Candidate Starts for Shygu2_74:

(Start: 70 @45745 has 146 MA's), (Start: 103 @45703 has 3 MA's), (139, 45625),

Gene: Sibs6_76 Start: 44568, Stop: 44269, Start Num: 106

Candidate Starts for Sibs6_76:

(Start: 89 @44598 has 1 MA's), (Start: 106 @44568 has 188 MA's), (127, 44523), (Start: 129 @44520 has 2 MA's), (147, 44451), (153, 44400),

Gene: SkiPole_85 Start: 48224, Stop: 47925, Start Num: 106

Candidate Starts for SkiPole_85:

(71, 48284), (Start: 106 @48224 has 188 MA's), (127, 48179), (Start: 129 @48176 has 2 MA's), (147, 48107), (153, 48056),

Gene: Skipitt_74 Start: 45641, Stop: 45342, Start Num: 70

Candidate Starts for Skipitt_74:

(Start: 70 @45641 has 146 MA's), (Start: 103 @45599 has 3 MA's),

Gene: Slagathor_77 Start: 48080, Stop: 47781, Start Num: 106

Candidate Starts for Slagathor_77:

(71, 48140), (Start: 106 @48080 has 188 MA's), (127, 48035), (Start: 129 @48032 has 2 MA's), (147, 47963), (153, 47912),

Gene: Smairt_80 Start: 49688, Stop: 49389, Start Num: 106

Candidate Starts for Smairt_80:

(Start: 89 @49718 has 1 MA's), (Start: 106 @49688 has 188 MA's), (127, 49643), (Start: 129 @49640 has 2 MA's), (147, 49571), (153, 49520),

Gene: Smeagan_86 Start: 48201, Stop: 47893, Start Num: 70

Candidate Starts for Smeagan_86:

(Start: 70 @48201 has 146 MA's), (Start: 72 @48198 has 38 MA's), (Start: 101 @48156 has 18 MA's), (Start: 105 @48150 has 5 MA's), (111, 48135), (157, 47976),

Gene: Smeagol_79 Start: 49291, Stop: 48989, Start Num: 106

Candidate Starts for Smeagol_79:

(Start: 106 @49291 has 188 MA's), (Start: 129 @49243 has 2 MA's), (132, 49231), (134, 49228), (150, 49144), (153, 49120),

Gene: SmellyB_83 Start: 45554, Stop: 45264, Start Num: 70

Candidate Starts for SmellyB_83:

(29, 45698), (33, 45668), (50, 45602), (Start: 52 @45596 has 1 MA's), (Start: 70 @45554 has 146 MA's), (Start: 103 @45512 has 3 MA's), (Start: 105 @45509 has 5 MA's), (Start: 108 @45503 has 1 MA's), (Start: 109 @45500 has 32 MA's), (112, 45491), (139, 45434), (144, 45419),

Gene: SnapTap_83 Start: 47624, Stop: 47316, Start Num: 72

Candidate Starts for SnapTap_83:

(Start: 72 @47624 has 38 MA's), (Start: 105 @47576 has 5 MA's), (111, 47561), (133, 47519), (157, 47402),

Gene: Snazzy_77 Start: 47731, Stop: 47432, Start Num: 106

Candidate Starts for Snazzy_77:

(71, 47791), (Start: 106 @47731 has 188 MA's), (127, 47686), (Start: 129 @47683 has 2 MA's), (147, 47614), (153, 47563),

Gene: Solon_72 Start: 45366, Stop: 45067, Start Num: 106

Candidate Starts for Solon_72:

(71, 45426), (Start: 106 @45366 has 188 MA's), (127, 45321), (Start: 129 @45318 has 2 MA's), (147, 45249), (153, 45198),

Gene: SororFago_82 Start: 47294, Stop: 47022, Start Num: 109

Candidate Starts for SororFago_82:

(49, 47426), (53, 47414), (Start: 109 @47294 has 32 MA's), (130, 47258), (131, 47255), (145, 47210),

Gene: Sparxx_76 Start: 45643, Stop: 45344, Start Num: 70

Candidate Starts for Sparxx_76:

(Start: 70 @45643 has 146 MA's), (Start: 103 @45601 has 3 MA's),

Gene: SpikeBT_73 Start: 46188, Stop: 45889, Start Num: 106

Candidate Starts for SpikeBT_73:

(Start: 89 @46218 has 1 MA's), (Start: 106 @46188 has 188 MA's), (127, 46143), (Start: 129 @46140 has 2 MA's), (147, 46071), (153, 46020),

Gene: Spino_74 Start: 45647, Stop: 45348, Start Num: 70

Candidate Starts for Spino_74:

(Start: 70 @45647 has 146 MA's), (Start: 103 @45605 has 3 MA's),

Gene: Spouty_82 Start: 47690, Stop: 47427, Start Num: 116

Candidate Starts for Spouty_82:

(Start: 109 @47708 has 32 MA's), (Start: 116 @47690 has 17 MA's), (127, 47669), (150, 47573),

Gene: Squee_77 Start: 46804, Stop: 46505, Start Num: 106

Candidate Starts for Squee_77:

(71, 46864), (Start: 106 @46804 has 188 MA's), (127, 46759), (Start: 129 @46756 has 2 MA's), (147, 46687), (153, 46636),

Gene: Stasia_73 Start: 45644, Stop: 45327, Start Num: 68

Candidate Starts for Stasia_73:

(20, 45875), (34, 45752), (63, 45659), (Start: 68 @45644 has 5 MA's), (Start: 69 @45641 has 5 MA's), (Start: 70 @45638 has 146 MA's), (Start: 101 @45599 has 18 MA's),

Gene: Steamy_75 Start: 46308, Stop: 46036, Start Num: 105

Candidate Starts for Steamy_75:

(Start: 105 @46308 has 5 MA's), (125, 46269), (127, 46263),

Gene: StewieG_72 Start: 44368, Stop: 44039, Start Num: 89

Candidate Starts for StewieG_72:

(Start: 89 @44368 has 1 MA's), (Start: 106 @44338 has 188 MA's), (127, 44293), (Start: 129 @44290 has 2 MA's), (147, 44221), (153, 44170),

Gene: Stink_70 Start: 45522, Stop: 45226, Start Num: 86

Candidate Starts for Stink_70:

(31, 45666), (86, 45522), (Start: 101 @45501 has 18 MA's), (Start: 110 @45483 has 1 MA's), (138, 45414), (160, 45315),

Gene: StrongArm_72 Start: 46736, Stop: 46437, Start Num: 106

Candidate Starts for StrongArm_72:

(71, 46796), (Start: 106 @46736 has 188 MA's), (127, 46691), (Start: 129 @46688 has 2 MA's), (147, 46619), (153, 46568),

Gene: Sumter_73 Start: 47729, Stop: 47430, Start Num: 106

Candidate Starts for Sumter_73:

(Start: 89 @47759 has 1 MA's), (Start: 106 @47729 has 188 MA's), (127, 47684), (Start: 129 @47681 has 2 MA's), (147, 47612), (153, 47561),

Gene: Sunshine924_77 Start: 46251, Stop: 45952, Start Num: 106

Candidate Starts for Sunshine924_77:

(Start: 106 @46251 has 188 MA's), (127, 46206), (Start: 129 @46203 has 2 MA's), (147, 46134), (153, 46083),

Gene: SuperAwesome_83 Start: 46235, Stop: 45945, Start Num: 70

Candidate Starts for SuperAwesome_83:

(29, 46379), (33, 46349), (50, 46283), (Start: 52 @46277 has 1 MA's), (Start: 70 @46235 has 146 MA's), (Start: 103 @46193 has 3 MA's), (Start: 105 @46190 has 5 MA's), (Start: 108 @46184 has 1 MA's), (Start: 109 @46181 has 32 MA's), (112, 46172), (139, 46115),

Gene: SuperCallie99_80 Start: 46034, Stop: 45786, Start Num: 103

Candidate Starts for SuperCallie99_80:

(Start: 70 @46076 has 146 MA's), (Start: 103 @46034 has 3 MA's), (Start: 105 @46031 has 5 MA's), (Start: 108 @46025 has 1 MA's), (Start: 109 @46022 has 32 MA's), (112, 46013), (139, 45956),

Gene: SweetiePie_83 Start: 47757, Stop: 47449, Start Num: 72

Candidate Starts for SweetiePie_83:

(Start: 72 @47757 has 38 MA's), (Start: 105 @47709 has 5 MA's), (111, 47694), (133, 47652), (157, 47535),

Gene: Swirley_70 Start: 44157, Stop: 43861, Start Num: 97

Candidate Starts for Swirley_70:

(Start: 97 @44157 has 14 MA's), (Start: 110 @44136 has 1 MA's), (112, 44130), (155, 43977),

Gene: SwissCheese_80 Start: 47251, Stop: 46952, Start Num: 106

Candidate Starts for SwissCheese_80:

(Start: 89 @47281 has 1 MA's), (Start: 106 @47251 has 188 MA's), (127, 47206), (Start: 129 @47203 has 2 MA's), (147, 47134), (153, 47083),

Gene: Switzer_75 Start: 47195, Stop: 46896, Start Num: 106

Candidate Starts for Switzer_75:

(71, 47255), (Start: 106 @47195 has 188 MA's), (127, 47150), (Start: 129 @47147 has 2 MA's), (147, 47078), (153, 47027),

Gene: Swole_74 Start: 47010, Stop: 46711, Start Num: 106

Candidate Starts for Swole_74:

(Start: 89 @47040 has 1 MA's), (Start: 106 @47010 has 188 MA's), (127, 46965), (Start: 129 @46962 has 2 MA's), (147, 46893), (153, 46842),

Gene: SydNat_70 Start: 44362, Stop: 44045, Start Num: 95

Candidate Starts for SydNat_70:

(66, 44434), (84, 44383), (90, 44374), (Start: 95 @44362 has 7 MA's), (Start: 100 @44356 has 2 MA's), (119, 44320), (126, 44308),

Gene: Taquarus_74 Start: 45650, Stop: 45351, Start Num: 70

Candidate Starts for Taquarus_74:

(Start: 70 @45650 has 146 MA's), (Start: 103 @45608 has 3 MA's),

Gene: Target_76 Start: 45828, Stop: 45529, Start Num: 106

Candidate Starts for Target_76:

(71, 45888), (Start: 106 @45828 has 188 MA's), (127, 45783), (Start: 129 @45780 has 2 MA's), (147, 45711), (148, 45699), (153, 45660),

Gene: TarsusIV_82 Start: 47656, Stop: 47333, Start Num: 72

Candidate Starts for TarsusIV_82:

(19, 47893), (Start: 72 @47656 has 38 MA's), (Start: 101 @47617 has 18 MA's), (Start: 105 @47611 has 5 MA's),

Gene: Tarynearal_69 Start: 43993, Stop: 43697, Start Num: 97

Candidate Starts for Tarynearal_69:

(Start: 97 @43993 has 14 MA's), (Start: 110 @43972 has 1 MA's), (112, 43966), (128, 43936), (155, 43813),

Gene: Tasp14_75 Start: 47298, Stop: 46999, Start Num: 106

Candidate Starts for Tasp14_75:

(Start: 89 @47328 has 1 MA's), (Start: 106 @47298 has 188 MA's), (127, 47253), (Start: 129 @47250 has 2 MA's), (147, 47181), (153, 47130),

Gene: Teodoridan_74 Start: 45135, Stop: 44836, Start Num: 106

Candidate Starts for Teodoridan_74:

(71, 45195), (Start: 106 @45135 has 188 MA's), (127, 45090), (Start: 129 @45087 has 2 MA's), (147, 45018), (153, 44967),

Gene: Texage_77 Start: 45999, Stop: 45721, Start Num: 109

Candidate Starts for Texage_77:

(Start: 95 @46020 has 7 MA's), (Start: 107 @46002 has 8 MA's), (Start: 109 @45999 has 32 MA's),

Gene: Thanksgivukkah_74 Start: 45645, Stop: 45346, Start Num: 70

Candidate Starts for Thanksgivukkah_74:

(Start: 70 @45645 has 146 MA's), (Start: 103 @45603 has 3 MA's),

Gene: Theia_69 Start: 44485, Stop: 44186, Start Num: 95

Candidate Starts for Theia_69:

(90, 44497), (Start: 95 @44485 has 7 MA's), (Start: 100 @44479 has 2 MA's), (119, 44443), (126, 44431), (150, 44341), (155, 44302),

Gene: TheloniousMonk_78 Start: 48520, Stop: 48221, Start Num: 106

Candidate Starts for TheloniousMonk_78:

(71, 48580), (Start: 106 @48520 has 188 MA's), (127, 48475), (Start: 129 @48472 has 2 MA's), (147, 48403), (153, 48352),

Gene: Thor_80 Start: 48254, Stop: 47955, Start Num: 106

Candidate Starts for Thor_80:

(71, 48314), (Start: 106 @48254 has 188 MA's), (127, 48209), (Start: 129 @48206 has 2 MA's), (147, 48137), (153, 48086),

Gene: Timshel_75 Start: 48520, Stop: 48227, Start Num: 83

Candidate Starts for Timshel_75:

(32, 48667), (40, 48634), (Start: 83 @48520 has 3 MA's), (98, 48490), (Start: 113 @48460 has 1 MA's),

Gene: TinaFeyge_73 Start: 45642, Stop: 45343, Start Num: 70

Candidate Starts for TinaFeyge_73:

(Start: 70 @45642 has 146 MA's), (Start: 103 @45600 has 3 MA's),

Gene: Tinybot_74 Start: 45674, Stop: 45375, Start Num: 70

Candidate Starts for Tinybot_74:

(Start: 70 @45674 has 146 MA's), (Start: 103 @45632 has 3 MA's),

Gene: TiroTheta9_74 Start: 45641, Stop: 45342, Start Num: 70

Candidate Starts for TiroTheta9_74:

(Start: 70 @45641 has 146 MA's), (Start: 103 @45599 has 3 MA's),

Gene: Toaka_85 Start: 47815, Stop: 47546, Start Num: 109

Candidate Starts for Toaka_85:

(Start: 109 @47815 has 32 MA's), (Start: 116 @47797 has 17 MA's), (127, 47776), (151, 47677),

Gene: Todacoro_79 Start: 45998, Stop: 45720, Start Num: 109

Candidate Starts for Todacoro_79:

(Start: 95 @46019 has 7 MA's), (Start: 107 @46001 has 8 MA's), (Start: 109 @45998 has 32 MA's), (117, 45980),

Gene: ToneTone_81 Start: 45501, Stop: 45238, Start Num: 101

Candidate Starts for ToneTone_81:

(21, 45801), (26, 45744), (27, 45741), (31, 45696), (67, 45573), (Start: 101 @45501 has 18 MA's), (Start: 110 @45489 has 1 MA's), (112, 45483), (Start: 129 @45444 has 2 MA's),

Gene: Topanga_73 Start: 45266, Stop: 44976, Start Num: 107

Candidate Starts for Topanga_73:

(88, 45299), (Start: 107 @45266 has 8 MA's),

Gene: Topgun_72 Start: 45472, Stop: 45173, Start Num: 106

Candidate Starts for Topgun_72:

(71, 45532), (Start: 106 @45472 has 188 MA's), (127, 45427), (Start: 129 @45424 has 2 MA's), (147, 45355), (153, 45304),

Gene: Tote_72 Start: 44278, Stop: 43979, Start Num: 106

Candidate Starts for Tote_72:

(Start: 89 @44308 has 1 MA's), (Start: 106 @44278 has 188 MA's), (127, 44233), (Start: 129 @44230 has 2 MA's), (147, 44161), (153, 44110),

Gene: Traft412_76 Start: 47553, Stop: 47254, Start Num: 106

Candidate Starts for Traft412_76:

(71, 47613), (Start: 106 @47553 has 188 MA's), (127, 47508), (Start: 129 @47505 has 2 MA's), (147, 47436), (153, 47385),

Gene: Treddle_78 Start: 48283, Stop: 47984, Start Num: 106

Candidate Starts for Treddle_78:

(71, 48343), (Start: 106 @48283 has 188 MA's), (127, 48238), (Start: 129 @48235 has 2 MA's), (147, 48166), (153, 48115),

Gene: Tripl3t_79 Start: 49835, Stop: 49536, Start Num: 106

Candidate Starts for Tripl3t_79:

(Start: 106 @49835 has 188 MA's), (127, 49790), (Start: 129 @49787 has 2 MA's), (147, 49718), (153, 49667),

Gene: Trixie_83 Start: 48218, Stop: 47910, Start Num: 73

Candidate Starts for Trixie_83:

(Start: 73 @48218 has 2 MA's), (Start: 101 @48179 has 18 MA's), (Start: 103 @48176 has 3 MA's),

Gene: Trooper_82 Start: 47215, Stop: 46895, Start Num: 72

Candidate Starts for Trooper_82:

(Start: 72 @47215 has 38 MA's), (Start: 105 @47167 has 5 MA's), (Start: 108 @47161 has 1 MA's), (157, 46984),

Gene: Trouble_76 Start: 47362, Stop: 47063, Start Num: 106

Candidate Starts for Trouble_76:

(30, 47569), (35, 47542), (39, 47521), (44, 47500), (45, 47497), (53, 47470), (60, 47458), (64, 47449), (Start: 68 @47434 has 5 MA's), (94, 47380), (Start: 106 @47362 has 188 MA's), (127, 47317), (Start: 129 @47314 has 2 MA's), (147, 47245), (153, 47194),

Gene: TroyPia_76 Start: 45682, Stop: 45383, Start Num: 70

Candidate Starts for TroyPia_76:

(Start: 70 @45682 has 146 MA's), (Start: 103 @45640 has 3 MA's),

Gene: Tubs_87 Start: 47925, Stop: 47641, Start Num: 109

Candidate Starts for Tubs_87:

(Start: 109 @47925 has 32 MA's), (Start: 116 @47907 has 17 MA's), (127, 47886), (150, 47790),

Gene: Tucker_84 Start: 45704, Stop: 45441, Start Num: 101

Candidate Starts for Tucker_84:

(21, 46004), (26, 45947), (27, 45944), (31, 45899), (67, 45776), (Start: 101 @45704 has 18 MA's), (Start: 110 @45692 has 1 MA's), (112, 45686), (Start: 129 @45647 has 2 MA's),

Gene: Turbido_84 Start: 47922, Stop: 47614, Start Num: 70

Candidate Starts for Turbido_84:

(Start: 70 @47922 has 146 MA's), (Start: 72 @47919 has 38 MA's), (Start: 101 @47877 has 18 MA's), (Start: 105 @47871 has 5 MA's), (111, 47856), (157, 47697),

Gene: Turj99_72 Start: 46853, Stop: 46554, Start Num: 106
Candidate Starts for Turj99_72:
(Start: 106 @46853 has 188 MA's), (127, 46808), (Start: 129 @46805 has 2 MA's), (153, 46685),

Gene: Twister_84 Start: 48480, Stop: 48184, Start Num: 107
Candidate Starts for Twister_84:
(88, 48513), (Start: 107 @48480 has 8 MA's),

Gene: TwoPeat_73 Start: 46815, Stop: 46516, Start Num: 106
Candidate Starts for TwoPeat_73:
(71, 46875), (Start: 106 @46815 has 188 MA's), (127, 46770), (Start: 129 @46767 has 2 MA's), (134, 46752), (147, 46698), (153, 46647),

Gene: TygerBlood_75 Start: 45647, Stop: 45348, Start Num: 70
Candidate Starts for TygerBlood_75:
(Start: 70 @45647 has 146 MA's), (Start: 103 @45605 has 3 MA's),

Gene: U2_70 Start: 47052, Stop: 46753, Start Num: 106
Candidate Starts for U2_70:
(Start: 89 @47082 has 1 MA's), (Start: 106 @47052 has 188 MA's), (127, 47007), (Start: 129 @47004 has 2 MA's), (147, 46935), (153, 46884),

Gene: Ugenie5_74 Start: 45396, Stop: 45133, Start Num: 116
Candidate Starts for Ugenie5_74:
(Start: 109 @45414 has 32 MA's), (Start: 116 @45396 has 17 MA's), (127, 45375), (150, 45279),

Gene: Ulysses_74 Start: 45330, Stop: 45031, Start Num: 70
Candidate Starts for Ulysses_74:
(Start: 70 @45330 has 146 MA's), (Start: 103 @45288 has 3 MA's),

Gene: Updawg_84 Start: 47452, Stop: 47141, Start Num: 72
Candidate Starts for Updawg_84:
(Start: 72 @47452 has 38 MA's), (79, 47440), (Start: 101 @47410 has 18 MA's), (Start: 105 @47404 has 5 MA's), (111, 47389),

Gene: VA6_83 Start: 47497, Stop: 47174, Start Num: 70
Candidate Starts for VA6_83:
(15, 47827), (17, 47800), (41, 47590), (Start: 70 @47497 has 146 MA's), (Start: 72 @47494 has 38 MA's), (Start: 105 @47446 has 5 MA's), (111, 47431), (133, 47389),

Gene: Vanisoa_82 Start: 48147, Stop: 47884, Start Num: 109
Candidate Starts for Vanisoa_82:
(Start: 109 @48147 has 32 MA's), (127, 48114), (151, 48015),

Gene: Violet_71 Start: 47447, Stop: 47148, Start Num: 106
Candidate Starts for Violet_71:
(71, 47507), (Start: 106 @47447 has 188 MA's), (127, 47402), (Start: 129 @47399 has 2 MA's), (147, 47330), (153, 47279),

Gene: VohminGhazi_83 Start: 45555, Stop: 45265, Start Num: 70
Candidate Starts for VohminGhazi_83:
(29, 45699), (33, 45669), (50, 45603), (Start: 52 @45597 has 1 MA's), (Start: 70 @45555 has 146 MA's), (Start: 103 @45513 has 3 MA's), (Start: 105 @45510 has 5 MA's), (Start: 108 @45504 has 1

MA's), (Start: 109 @45501 has 32 MA's), (112, 45492), (139, 45435), (144, 45420),

Gene: WalterMcMickey_83 Start: 48480, Stop: 48184, Start Num: 107

Candidate Starts for WalterMcMickey_83:

(88, 48513), (Start: 107 @48480 has 8 MA's),

Gene: Wander_75 Start: 45641, Stop: 45342, Start Num: 70

Candidate Starts for Wander_75:

(Start: 70 @45641 has 146 MA's), (Start: 103 @45599 has 3 MA's),

Gene: Watermelon_79 Start: 48357, Stop: 48058, Start Num: 106

Candidate Starts for Watermelon_79:

(Start: 89 @48387 has 1 MA's), (Start: 106 @48357 has 188 MA's), (127, 48312), (Start: 129 @48309 has 2 MA's), (147, 48240), (153, 48189),

Gene: WeiHuaDA_85 Start: 48465, Stop: 48169, Start Num: 85

Candidate Starts for WeiHuaDA_85:

(5, 49035), (19, 48720), (Start: 72 @48480 has 38 MA's), (Start: 85 @48465 has 1 MA's), (Start: 101 @48441 has 18 MA's), (111, 48420), (133, 48378),

Gene: Whabigail7_83 Start: 47920, Stop: 47612, Start Num: 70

Candidate Starts for Whabigail7_83:

(Start: 70 @47920 has 146 MA's), (Start: 72 @47917 has 38 MA's), (Start: 105 @47869 has 5 MA's), (111, 47854), (157, 47695),

Gene: Wheeler_81 Start: 49068, Stop: 48769, Start Num: 106

Candidate Starts for Wheeler_81:

(Start: 106 @49068 has 188 MA's), (127, 49023), (Start: 129 @49020 has 2 MA's), (147, 48951), (153, 48900),

Gene: WideWale_84 Start: 47452, Stop: 47141, Start Num: 72

Candidate Starts for WideWale_84:

(Start: 72 @47452 has 38 MA's), (79, 47440), (Start: 101 @47410 has 18 MA's), (Start: 105 @47404 has 5 MA's), (111, 47389),

Gene: Wiks_83 Start: 45572, Stop: 45309, Start Num: 101

Candidate Starts for Wiks_83:

(21, 45872), (26, 45815), (27, 45812), (31, 45767), (67, 45644), (Start: 101 @45572 has 18 MA's), (Start: 110 @45560 has 1 MA's), (112, 45554), (Start: 129 @45515 has 2 MA's),

Gene: Wilbur_75 Start: 45644, Stop: 45345, Start Num: 70

Candidate Starts for Wilbur_75:

(Start: 70 @45644 has 146 MA's), (Start: 103 @45602 has 3 MA's),

Gene: Wile_73 Start: 45720, Stop: 45427, Start Num: 56

Candidate Starts for Wile_73:

(Start: 46 @45741 has 2 MA's), (Start: 47 @45738 has 12 MA's), (Start: 56 @45720 has 2 MA's), (57, 45717), (75, 45687), (Start: 110 @45675 has 1 MA's), (Start: 129 @45636 has 2 MA's), (139, 45603),

Gene: Wilkins_73 Start: 45402, Stop: 45103, Start Num: 106

Candidate Starts for Wilkins_73:

(71, 45462), (Start: 106 @45402 has 188 MA's), (127, 45357), (Start: 129 @45354 has 2 MA's), (147, 45285), (153, 45234),

Gene: Wizard007_74 Start: 45464, Stop: 45153, Start Num: 47

Candidate Starts for Wizard007_74:

(Start: 46 @45467 has 2 MA's), (Start: 47 @45464 has 12 MA's), (Start: 56 @45446 has 2 MA's), (57, 45443), (75, 45413), (Start: 110 @45401 has 1 MA's), (Start: 129 @45362 has 2 MA's), (139, 45329),

Gene: WunderPhul_84 Start: 45570, Stop: 45307, Start Num: 101

Candidate Starts for WunderPhul_84:

(21, 45870), (26, 45813), (27, 45810), (31, 45765), (67, 45642), (Start: 101 @45570 has 18 MA's), (Start: 110 @45558 has 1 MA's), (Start: 129 @45513 has 2 MA's),

Gene: Xena_73 Start: 45735, Stop: 45418, Start Num: 47

Candidate Starts for Xena_73:

(Start: 46 @45738 has 2 MA's), (Start: 47 @45735 has 12 MA's), (Start: 54 @45720 has 1 MA's), (75, 45684), (Start: 110 @45669 has 1 MA's), (Start: 129 @45630 has 2 MA's), (139, 45597),

Gene: XianYue_82 Start: 47707, Stop: 47390, Start Num: 70

Candidate Starts for XianYue_82:

(11, 48094), (19, 47950), (Start: 70 @47707 has 146 MA's), (98, 47671), (156, 47482),

Gene: Yecey3_88 Start: 47683, Stop: 47417, Start Num: 109

Candidate Starts for Yecey3_88:

(Start: 109 @47683 has 32 MA's), (Start: 116 @47665 has 17 MA's), (125, 47650), (130, 47638), (155, 47509),

Gene: YoSam321_75 Start: 45642, Stop: 45343, Start Num: 70

Candidate Starts for YoSam321_75:

(Start: 70 @45642 has 146 MA's), (Start: 103 @45600 has 3 MA's),

Gene: Yokurt_83 Start: 45572, Stop: 45309, Start Num: 101

Candidate Starts for Yokurt_83:

(21, 45872), (26, 45815), (27, 45812), (31, 45767), (67, 45644), (Start: 101 @45572 has 18 MA's), (Start: 110 @45560 has 1 MA's), (112, 45554), (Start: 129 @45515 has 2 MA's),

Gene: Zaka_84 Start: 45572, Stop: 45309, Start Num: 101

Candidate Starts for Zaka_84:

(21, 45872), (26, 45815), (27, 45812), (31, 45767), (67, 45644), (Start: 101 @45572 has 18 MA's), (Start: 110 @45560 has 1 MA's), (112, 45554), (Start: 129 @45515 has 2 MA's),

Gene: Zeeculate_72 Start: 47175, Stop: 46876, Start Num: 106

Candidate Starts for Zeeculate_72:

(Start: 89 @47205 has 1 MA's), (Start: 106 @47175 has 188 MA's), (127, 47130), (Start: 129 @47127 has 2 MA's), (147, 47058), (153, 47007),

Gene: Zephyr_78 Start: 47447, Stop: 47148, Start Num: 106

Candidate Starts for Zephyr_78:

(71, 47507), (Start: 106 @47447 has 188 MA's), (127, 47402), (Start: 129 @47399 has 2 MA's), (147, 47330), (153, 47279),

Gene: Zeuska_78 Start: 48397, Stop: 48113, Start Num: 109

Candidate Starts for Zeuska_78:

(91, 48427), (Start: 109 @48397 has 32 MA's), (114, 48385), (147, 48295), (153, 48244),

Gene: Zimmer_79 Start: 47067, Stop: 46792, Start Num: 105

Candidate Starts for Zimmer_79:

(Start: 105 @47067 has 5 MA's), (114, 47046), (Start: 116 @47043 has 17 MA's), (118, 47040), (127, 47022), (132, 47010),

Gene: Zolita_69 Start: 44339, Stop: 44049, Start Num: 100

Candidate Starts for Zolita_69:

(66, 44417), (84, 44366), (90, 44357), (Start: 95 @44345 has 7 MA's), (Start: 100 @44339 has 2 MA's), (119, 44303), (126, 44291),

Gene: Zulu_85 Start: 45950, Stop: 45687, Start Num: 101

Candidate Starts for Zulu_85:

(21, 46250), (26, 46193), (27, 46190), (31, 46145), (67, 46022), (Start: 101 @45950 has 18 MA's), (Start: 110 @45938 has 1 MA's), (112, 45932), (Start: 129 @45893 has 2 MA's),