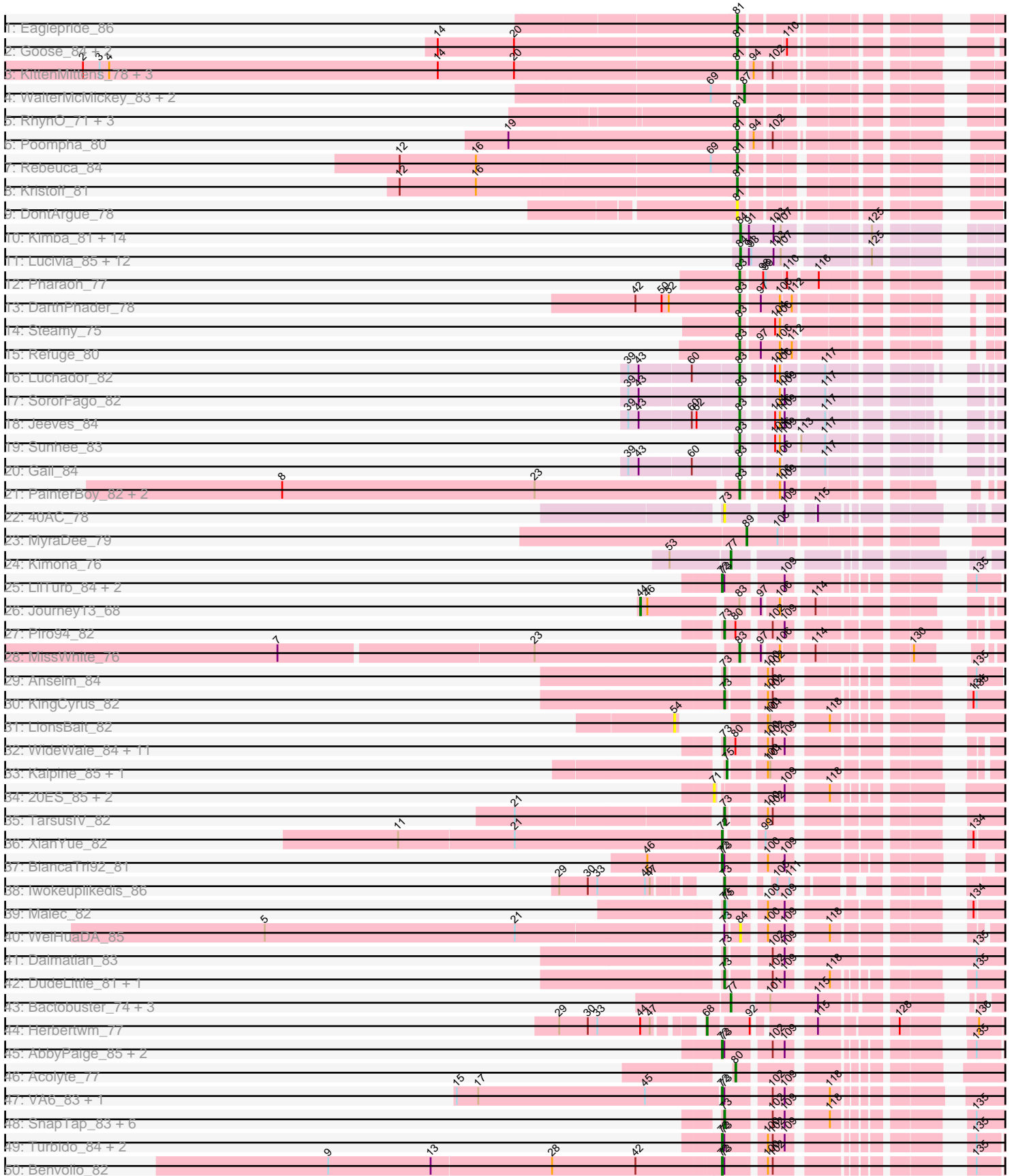
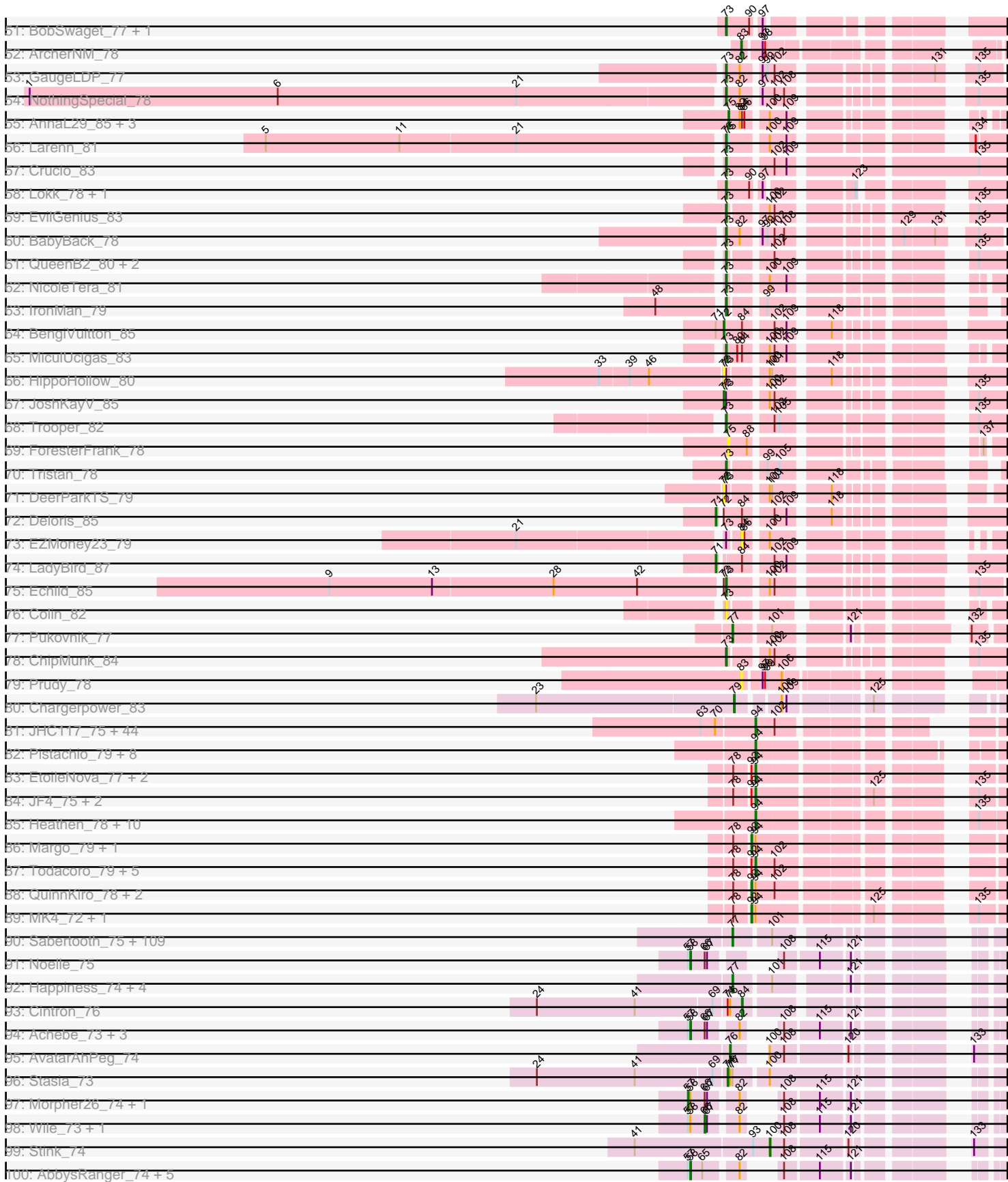


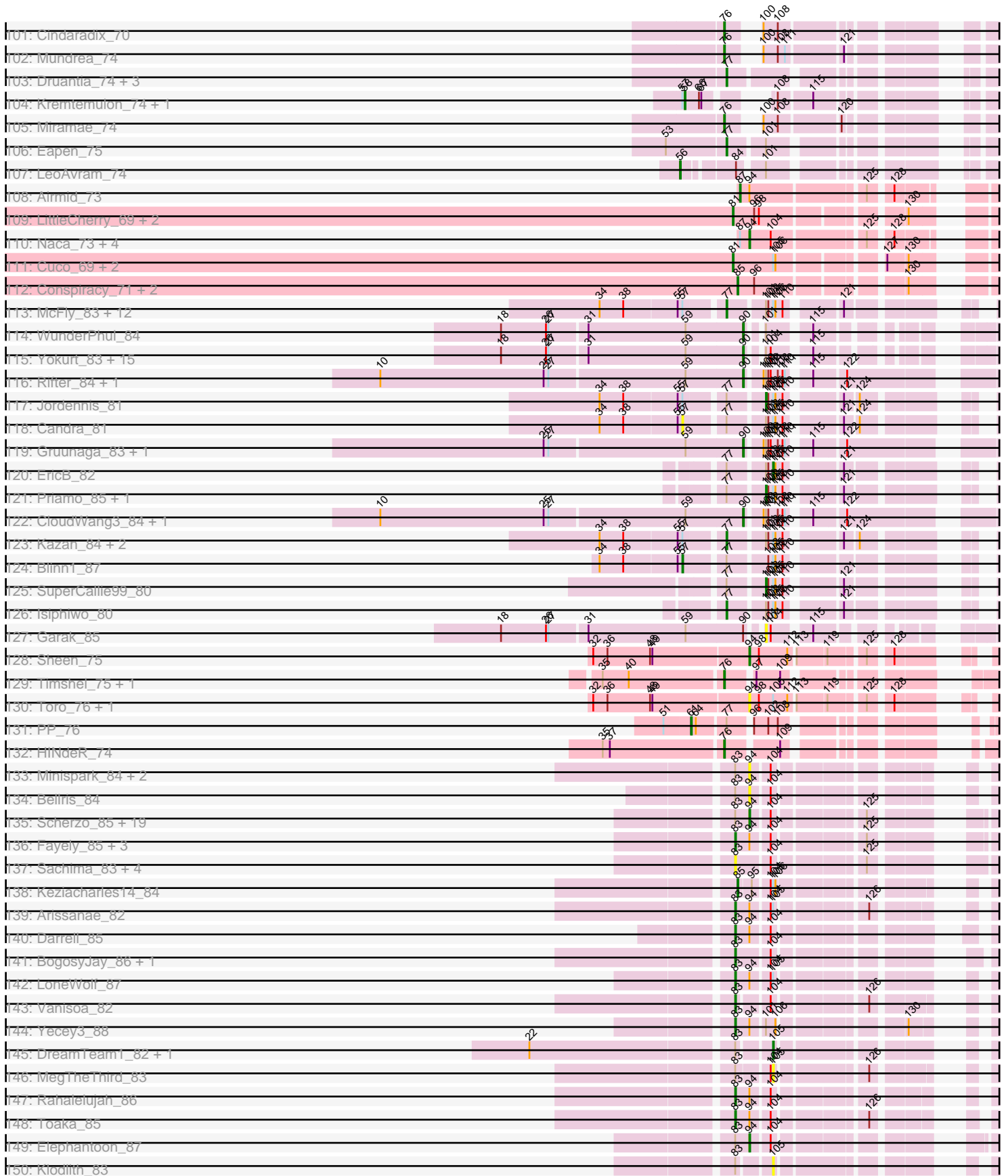
Pham 304598



Pham 304598



Pham 304598



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 304598 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304598 has 503 members, 59 are drafts.

Phages represented in each track:

- Track 1 : Eaglepride_86
- Track 2 : Goose_84, OKCentral2016_82, Chupacabra_80
- Track 3 : KittenMittens_78, Severus_81, PeaceMeal1_80, Drake94_80
- Track 4 : WalterMcMickey_83, Topanga_73, Twister_84
- Track 5 : RhynO_71, DustyMartin_86, Shapes_86, Rowdy_86
- Track 6 : Poompha_80
- Track 7 : Rebeuca_84
- Track 8 : Kristoff_81
- Track 9 : DontArgue_78
- Track 10 : Kimba_81, Et2Brutus_83, Gilberta_81, Sham4_80, Fibonacci_83, Jabith_83, Bachome_82, Salz_79, Ebony_84, Insomnia_83, Hutc2_80, Saskia_81, Wolpertinger_83, Mulciber_82, Snape_84
- Track 11 : Lucivia_85, Timothy_84, Aneem_85, MaCh_84, Joselito_83, Petersenfast_78, Mabel_84, Bud_79, Munch_84, Bowtie_81, Orange_84, TinyTimmy_82, Flaverint_85
- Track 12 : Pharaoh_77
- Track 13 : DarthPhader_78
- Track 14 : Steamy_75
- Track 15 : Refuge_80
- Track 16 : Luchador_82
- Track 17 : SororFago_82
- Track 18 : Jeeves_84
- Track 19 : Sunhee_83
- Track 20 : Gail_84
- Track 21 : PainterBoy_82, Lucyedi_82, EagleEye_83
- Track 22 : 40AC_78
- Track 23 : MyraDee_79
- Track 24 : Kimona_76
- Track 25 : LilTurb_84, Jerm_85, Agape74_85
- Track 26 : Journey13_68
- Track 27 : Piro94_82
- Track 28 : MissWhite_76
- Track 29 : Anselm_84
- Track 30 : KingCyrus_82
- Track 31 : LionsBait_82
- Track 32 : WideWale_84, HarryHoudini_83, Updawg_84, Drake55_84, Sknot_83, Baehexic_82, Terrific_84, Centaur_83, NaSiaTalie_84, Flare16_83, Equemioh13_83,

Gratitude_81

- Track 33 : Kalpine_85, Trixie_83
- Track 34 : 20ES_85, CRB1_84, First_0084
- Track 35 : TarsusIV_82
- Track 36 : XianYue_82
- Track 37 : BiancaTri92_81
- Track 38 : Iwokeuplikedis_86
- Track 39 : Malec_82
- Track 40 : WeiHuaDA_85
- Track 41 : Dalmatian_83
- Track 42 : DudeLittle_81, Retro23_83
- Track 43 : Bactobuster_74, Landor_80, Phaded_76, Jaan_80
- Track 44 : Herbertwm_77
- Track 45 : AbbyPaige_85, Dignity_85, Whabigail7_83
- Track 46 : Acolyte_77
- Track 47 : VA6_83, AN3_83
- Track 48 : SnapTap_83, FiringLine_83, QueenBeesly_83, Georgie2_85, SweetiePie_83, SemperFi_83, Power_83
- Track 49 : Turbido_84, Leviathan_85, Smeagan_86
- Track 50 : Benvolio_82
- Track 51 : BobSwaget_77, Miko_78
- Track 52 : ArcherNM_78
- Track 53 : GaugeLDP_77
- Track 54 : NothingSpecial_78
- Track 55 : AnnaL29_85, Changeling_82, Loser_86, RedRock_83
- Track 56 : Larenn_81
- Track 57 : Crucio_83
- Track 58 : Lokk_78, Rachaly_80
- Track 59 : EvilGenius_83
- Track 60 : BabyBack_78
- Track 61 : QueenB2_80, Heffalump_80, Fameo_81
- Track 62 : NicoleTera_81
- Track 63 : IronMan_79
- Track 64 : BengiVuitton_85
- Track 65 : MiculUcigas_83
- Track 66 : HippoHollow_80
- Track 67 : JoshKayV_85
- Track 68 : Trooper_82
- Track 69 : ForesterFrank_78
- Track 70 : Tristan_78
- Track 71 : DeerParkTS_79
- Track 72 : Deloris_85
- Track 73 : EZMoney23_79
- Track 74 : LadyBird_87
- Track 75 : Echild_85
- Track 76 : Colin_82
- Track 77 : Pukovnik_77
- Track 78 : ChipMunk_84
- Track 79 : Prudy_78
- Track 80 : Chargerpower_83
- Track 81 : JHC117_75, LugYA_83, Gwennie_75, Penny1_80, Grif_78, EpicPhail_81, Dieselweasel_81, Taurus_81, MarQuardt_80, Colbster_76, Aglet_81, GingkoMaracino_80, Grum1_80, Soshari_82, GtownJaz_80, P28Green_80,

Montavir_75, Bigflo_77, Phoxy_80, Tiffany_79, MadMarie_78, Wooldri_82, LBerry_81, Rummer_79, Jobu08_76, JenCasNa_81, Snickers_80, Cullens_81, SoilDragon_80, Hercules11_80, Sabinator_78, Fernando_81, PotatoSplit_81, Beauxregard13_79, Anubis_84, SoYo_77, Ollie_80, Methuselah_73, MoneyMay_80, Marie_78, Spike509_80, Vix_76, Croquant_77, Farber_80, Phoebe_81

- Track 82 : Pistachio_79, Giroux_82, Clammy_79, TNguyen7_80, SaturnRing_79, BlueBird_81, Bugatti_79, Idleandcovert_79, Phantastic_80
- Track 83 : EtoileNova_77, Texage_77, Noella_80
- Track 84 : JF4_75, JF2_75, B1_69
- Track 85 : Heathen_78, Zarafa_76, DropBear_77, Fred313_76, Marchesa_78, Kachowdy_76, BabyRay_78, HelDan_79, Roimos_77, MA5_77, Scout_78
- Track 86 : Margo_79, Norbert_75
- Track 87 : Todacoro_79, Pocahontas_78, Panamaxus_76, ResDef_77, Popcicle_79, Hookmount_79
- Track 88 : QuinnKiro_78, Veracruz_76, Lambert1_79
- Track 89 : MK4_72, Isca_75
- Track 90 : Sabertooth_75, OKaNui_74, Morrow_77, JoongJeon_74, Mazhar510_75, Burger_73, Iracema64_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, RockieBear_72, Bombshell_75, TiroTheta9_74, LochMonster_76, Jaykayelowell_72, KekoraPapaka_72, Melvin_77, Sparxx_76, Romney_74, PeterPeter_75, Phelipe_76, Broseidon_75, Abdiel_74, Cocoaberry_75, SheldonCooper_75, Alberto7_76, ICleared_74, Kyee_75, CentreCat_75, Thanksgivukkah_74, Scamp_75, Lemur_75, Baby16_75, LappelDuVide_75, LittleB_75, Phighter1804_75, Chaph_75, Kratark_74, DirtyDunning_74, Caelakin_73, Skipitt_74, Kamy_74, Iceman_73, Phacado_75, BubbleTrouble_74, Mayonnaise_72, Spino_74, Roosevelt_73, Nyxis_74, JetBlade_76, TroyPia_76, Florean_75, SeniorClean_76, Dhanush_75, Pipcraft_71, Commander_73, Rosa24_71, Kingmustik0402_75, BellusTerra_76, Eurydice_76, SteMason_71, Sultana_75, Eros_75, Tinybot_74, MeeZee_74, Maverick_74, Koan_72, Peaches_73, Blackmoor_74, TinaFeyge_73, Clarenza_74, Shaka_73, Deano_72, NorthStar_72, Ohfah_76, KFPoly_74, Palestino_74, Connomayer_75, HamSlice_71, BangNhom_72, Ulysses_74, Wilbur_75, Arturo_72, TygerBlood_75, LittleGuy_75, Koreni_74, Taquarus_74, Citius_75, Gadost_75, Lunsford_75, NotAPhaseMom_74, Phontbonne_75, Nebs_76, Medusa_74, Annyong_74, Eris_74, Funston_74, Cerulean_77
- Track 91 : Noelle_75
- Track 92 : Happiness_74, ChampagnePapi_78, Obama12_76, LHTSCC_77, Shygu2_74
- Track 93 : Cintron_76
- Track 94 : Achebe_73, Katalie136_74, Wizard007_74, Cici_74
- Track 95 : AvatarAhPeg_74
- Track 96 : Stasia_73
- Track 97 : Morpher26_74, Bumblebee11_73
- Track 98 : Wile_73, Badger_73
- Track 99 : Stink_74
- Track 100 : AbbysRanger_74, Perplexer_74, Backyardigan_72, Xena_73, Datway_74, PetiteSangsue_74
- Track 101 : Cindaradix_70
- Track 102 : Mundrea_74
- Track 103 : Druantia_74, Eagle_74, Lorenzo_75, Polymorphads_76
- Track 104 : Kremtemulon_74, Camperdownii_73
- Track 105 : Miramae_74

- Track 106 : Eapen_75
- Track 107 : LeoAvram_74
- Track 108 : Airmid_73
- Track 109 : LittleCherry_69, Bonamassa_70, HuhtaEnerson15_68
- Track 110 : Naca_73, ElTiger69_76, PetterN_78, Chadwick_74, Benedict_74
- Track 111 : Cuco_69, Coog_67, Midas2_67
- Track 112 : Conspiracy_71, Discoknowium_68, ForGetIt_71
- Track 113 : McFly_83, DaVinci_81, Neeharika16_82, Hoot_78, Cookiedough_83, Newrala_82, SuperAwesome_83, GreedyLawyer_77, Dorothea_83, Kipper29_83, Pmask_82, BABullseye_76, Chartreuse_82
- Track 114 : WunderPhul_84
- Track 115 : Yokurt_83, ToneTone_81, Koko_85, Wiks_83, Artemis2UCLA_83, Temprado_85, Helmet_86, Zulu_85, Lilbunny_83, Blue7_85, Roksolana_84, Zaka_84, BlessJoy_84, Indra_87, BennyP_84, Tucker_84
- Track 116 : Rifter_84, Hammer_84
- Track 117 : Jordennis_81
- Track 118 : Candra_81
- Track 119 : Gruunaga_83, Gladiator_80
- Track 120 : EricB_82
- Track 121 : Priamo_85, DelvinSonDorr_79
- Track 122 : CloudWang3_84, Hexamo_83
- Track 123 : Kazan_84, VohminGhazi_83, SmellyB_83
- Track 124 : Blinn1_87
- Track 125 : SuperCallie99_80
- Track 126 : Isiphiwo_80
- Track 127 : Garak_85
- Track 128 : Sheen_75
- Track 129 : Timshel_75, DroogsArmy_74
- Track 130 : Toro_76, FlyCatcher_78
- Track 131 : PP_76
- Track 132 : HINdeR_74
- Track 133 : Minispark_84, WorldCup_85, CogOmlette_84
- Track 134 : Bellris_84
- Track 135 : Scherzo_85, Qobbit_85, Pioneer_87, Horex_86, Phaeder_87, Aliter_80, Ugenie5_74, Lilleskat_84, Beemo_87, ExplosioNervosa_85, Phonnegut_87, Eidsmoe_85, Ayanochan_85, Onglai_85, HortumSL17_88, Conquerage_85, Alma_85, Catalina_89, Priya_85, Myxus_87
- Track 136 : Fayely_85, Tubs_87, Spouty_85, EmyBug_84
- Track 137 : Sachima_83, RyeScarlet_88, Hanray_85, EdogawaKiddo_86, Jiawan_85
- Track 138 : Keziacharles14_84
- Track 139 : Arissanae_82
- Track 140 : Darrell_85
- Track 141 : BogosyJay_86, Maminiaina_86
- Track 142 : LoneWolf_87
- Track 143 : Vanisoa_82
- Track 144 : Yecey3_88
- Track 145 : DreamTeam1_82, Charm_82
- Track 146 : MegTheThird_83
- Track 147 : Rahalelujah_86
- Track 148 : Toaka_85
- Track 149 : Elephantoon_87
- Track 150 : Klodlith_83

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

The start number called the most often in the published annotations is 77, it was called in 139 of the 444 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abdiel_74, Albee_75, Alberto7_76, Annyong_74, Arturo_72, Avle17_75, BABullseye_76, Baby16_75, Bactobuster_74, BangNhom_72, Bartimeaus_75, BellusTerra_76, Blackmoor_74, Bombshell_75, Broseidon_75, Bruiser_74, BubbleTrouble_74, Burger_73, Caelakin_73, CentreCat_75, Cerulean_77, ChampagnePapi_78, Chaph_75, Chartreuse_82, Citius_75, Clarenza_74, Cocoaberry_75, Commander_73, Connomayer_75, Cookiedough_83, DaVinci_81, Deano_72, Dhanush_75, DirtyDunning_74, Dorothea_83, Druantia_74, Eagle_74, Eapen_75, Eris_74, Eros_75, Eurydice_76, Floean_75, Flux_76, Funston_74, Gadost_75, GreedyLawyer_77, HamSlice_71, Happiness_74, Holli_74, Hoot_78, Houdini22_74, ICleared_74, Iceman_73, Iracema64_75, Isiphiwo_80, Jaan_80, Jaykayelowell_72, JetBlade_76, JoongJeon_74, KFPoly_74, Kampy_74, Kazan_84, KekoraPapaka_72, Kimona_76, Kingmustik0402_75, Kipper29_83, Koan_72, Koreni_74, Kratak_74, Kyee_75, LHTSCC_77, Landor_80, LappelDuVide_75, Lemur_75, LittleB_75, LittleGuy_75, LochMonster_76, Lorenzo_75, Lunsford_75, Maverick_74, Maxo_77, Mayonnaise_72, Mazhar510_75, McFly_83, Medusa_74, MeeZee_74, Melvin_77, Millski_74, Morrow_77, Nebs_76, Neeharika16_82, Nemo27_74, Newrala_82, NorthStar_72, NotAPhaseMom_74, Nyxis_74, OKaNui_74, Obama12_76, Ohfah_76, Palestino_74, Peaches_73, PeterPeter_75, Phacado_75, Phaded_76, Phelipe_76, Phighter1804_75, Phontbonne_75, Pipcraft_71, Pmask_82, Polymorphads_76, Pukovnik_77, Pumbaa_75, Relief_74, RockieBear_72, Romney_74, Roosevelt_73, Rosa24_71, Ruin_75, Sabertooth_75, Scamp_75, SeniorClean_76, Shaka_73, SheldonCooper_75, Shygu2_74, Skipitt_74, SmellyB_83, Sparxx_76, Spino_74, SteMason_71, Sultana_75, SuperAwesome_83, Taquarus_74, Thanksgivukkah_74, TinaFeyge_73, Tinybot_74, TiroTheta9_74, TroyPia_76, TygerBlood_75, Ulysses_74, VohminGhazi_83, Wander_75, Wilbur_75, YoSam321_75,

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

- Blinn1_87, Candra_81, DelvinSonDorr_79, EricB_82, Jordennis_81, PP_76, Priamo_85, Stasia_73, SuperCallie99_80,

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

- 20ES_85, 40AC_78, AN3_83, AbbyPaige_85, AbbysRanger_74, Achebe_73, Acolyte_77, Agape74_85, Aglet_81, Airmid_73, Aliter_80, Alma_85, Aneem_85, AnnaL29_85, Anselm_84, Anubis_84, ArcherNM_78, Arissanae_82, Artemis2UCLA_83, AvatarAhPeg_74, Ayanochan_85, B1_69, BabyBack_78, BabyRay_78, Bachome_82, Backyardigan_72, Badger_73, Baehexic_82, Beauxregard13_79, Beemo_87, Bellris_84, Benedict_74, BengiVuitton_85, BennyP_84, Benvolio_82, BiancaTri92_81, Bigflo_77, BlessJoy_84, Blue7_85, BlueBird_81, BobSwaget_77, BogosyJay_86, Bonamassa_70, Bowtie_81, Bud_79, Bugatti_79, Bumblebee11_73, CRB1_84, Camperdownii_73, Catalina_89, Centaur_83, Chadwick_74, Changeling_82, Chargerpower_83, Charm_82, ChipMunk_84, Chupacabra_80, Cici_74, Cindaradix_70, Cintron_76, Clammy_79,

CloudWang3_84, CogOmlette_84, Colbster_76, Colin_82, Conquerage_85, Conspiracy_71, Coog_67, Croquant_77, Crucio_83, Cuco_69, Cullens_81, Dalmatian_83, Darrell_85, DarthPhader_78, Datway_74, DeerParkTS_79, Deloris_85, Dieselweasel_81, Dignity_85, Discoknowium_68, DontArgue_78, Drake55_84, Drake94_80, DreamTeam1_82, DroogsArmy_74, DropBear_77, DudeLittle_81, DustyMartin_86, EZMoney23_79, EagleEye_83, Eaglepride_86, Ebony_84, Echild_85, EdogawaKiddo_86, Eidsmoe_85, ElTiger69_76, Elephantoon_87, EmyBug_84, EpicPhail_81, Equemioh13_83, Et2Brutus_83, EtoileNova_77, EvilGenius_83, ExplosioNervosa_85, Fameo_81, Farber_80, Fayely_85, Fernando_81, Fibonacci_83, FiringLine_83, First_0084, Flare16_83, Flaverint_85, FlyCatcher_78, ForGetIt_71, ForesterFrank_78, Fred313_76, Gail_84, Garak_85, GaugeLDP_77, Georgie2_85, Gilberta_81, GingkoMaracino_80, Giroux_82, Gladiator_80, Goose_84, Gratitude_81, Grif_78, Grum1_80, Gruunaga_83, GtownJaz_80, Gwennie_75, HINdeR_74, Hammer_84, Hanray_85, HarryHoudini_83, Heathen_78, Heffalump_80, HelDan_79, Helmet_86, Herbertwm_77, Hercules11_80, Hexamo_83, HippoHollow_80, Holes_86, Hookmount_79, HortumSL17_88, HuhtaEnerson15_68, Hutc2_80, Idleandcovert_79, Indra_87, Insomnia_83, IronMan_79, Isca_75, Iwokeuplikedis_86, JF2_75, JF4_75, JHC117_75, Jabith_83, Jeeves_84, JenCasNa_81, Jerm_85, Jiawan_85, Jobu08_76, Joselito_83, JoshKayV_85, Journey13_68, Kachowdy_76, Kalpine_85, Katalie136_74, Keziacharles14_84, Kimba_81, KingCyrus_82, KittenMittens_78, Klodlith_83, Koko_85, Kremtemulon_74, Kristoff_81, LBerry_81, LadyBird_87, Lambert1_79, Larenn_81, LeoAvram_74, Leviathan_85, LilTurb_84, Lilbunny_83, Lilleskat_84, LionsBait_82, LittleCherry_69, Lokk_78, LoneWolf_87, Loser_86, Luchador_82, Lucivia_85, Lucyedi_82, LugYA_83, MA5_77, MK4_72, MaCh_84, Mabel_84, MadMarie_78, Malec_82, Maminiaina_86, MarQuardt_80, Marchesa_78, Margo_79, Marie_78, MegTheThird_83, Methuselah_73, MiculUcigas_83, Midas2_67, Miko_78, Minispark_84, Miramae_74, MissWhite_76, MoneyMay_80, Montavir_75, Morpher26_74, Mulciber_82, Munch_84, Mundrea_74, MyraDee_79, Myxus_87, NaSiaTalie_84, Naca_73, NicoleTera_81, Noella_80, Noelle_75, Norbert_75, NothingSpecial_78, OKCentral2016_82, Ollie_80, Onglai_85, Orange_84, P28Green_80, PainterBoy_82, Panamaxus_76, PeaceMeal1_80, Penny1_80, Perplexer_74, Petersenfast_78, PetiteSangsue_74, PetterN_78, Phaeder_87, Phantastic_80, Pharaoh_77, Phoebe_81, Phonnegut_87, Phoxy_80, Pioneer_87, Piro94_82, Pistachio_79, Pocahontas_78, Poompha_80, Popcicle_79, PotatoSplit_81, Power_83, Priya_85, Prudy_78, Qobbit_85, QueenB2_80, QueenBeesly_83, QuinnKiro_78, Rachaly_80, Rahalelujah_86, Rebeuca_84, RedRock_83, Refuge_80, ResDef_77, Retro23_83, RhynO_71, Rifter_84, Roimos_77, Roksolana_84, Rowdy_86, Rummer_79, RyeScarlet_88, Sabinator_78, Sachima_83, Salz_79, Saskia_81, SaturnRing_79, Scherzo_85, Scout_78, SemperFi_83, Severus_81, Sham4_80, Shapes_86, Sheen_75, Sknot_83, Smeagan_86, SnapTap_83, Snape_84, Snickers_80, SoYo_77, SoilDragon_80, SororFago_82, Soshari_82, Spike509_80, Spouty_85, Steamy_75, Stink_74, Sunhee_83, SweetiePie_83, TNguyen7_80, TarsusIV_82, Taurus_81, Temprado_85, Terrific_84, Texage_77, Tiffany_79, Timothy_84, Timshel_75, TinyTimmy_82, Toaka_85, Todacoro_79, ToneTone_81, Topanga_73, Toro_76, Tristan_78, Trixie_83, Trooper_82, Tubs_87, Tucker_84, Turbido_84, Twister_84, Ugenie5_74, Updawg_84, VA6_83, Vanisoa_82, Veracruz_76, Vix_76, WalterMcMickey_83, WeiHuaDA_85, Whabigail7_83, WideWale_84, Wiks_83, Wile_73, Wizard007_74, Wolpertinger_83, Wooldri_82, WorldCup_85, WunderPhul_84, Xena_73, XianYue_82, Yecey3_88, Yokurt_83, Zaka_84, Zarafa_76, Zulu_85,

Summary by start number:

Start 44:

- Found in 2 of 503 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 444
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Journey13_68 (A2),

Start 54:

- Found in 1 of 503 (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: LionsBait_82 (A2),

Start 56:

- Found in 1 of 503 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 444
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LeoAvram_74 (A4),

Start 57:

- Found in 36 of 503 (7.2%) of genes in pham
- Manual Annotations of this start: 3 of 444
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Blinn1_87 (A6), Bumblebee11_73 (A4), Candra_81 (A6), Morpher26_74 (A4),

Start 58:

- Found in 17 of 503 (3.4%) of genes in pham
- Manual Annotations of this start: 13 of 444
- 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_74 (A4), Noelle_75 (A4), Perplexer_74 (A4), PetiteSangsue_74 (A4), Wizard007_74 (A4), Xena_73 (A4),

Start 61:

- Found in 1 of 503 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 444
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PP_76 (A7),

Start 66:

- Found in 11 of 503 (2.2%) of genes in pham
- Manual Annotations of this start: 2 of 444
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Badger_73 (A4), Wile_73 (A4),

Start 68:

- Found in 1 of 503 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 444
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Herbertwm_77 (A2),

Start 71:

- Found in 6 of 503 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 444
- Called 83.3% of time when present
- Phage (with cluster) where this start called: 20ES_85 (A2), CRB1_84 (A2), Deloris_85 (A2), First_0084 (A2), LadyBird_87 (A2),

Start 72:

- Found in 20 of 503 (4.0%) of genes in pham
- Manual Annotations of this start: 16 of 444
- Called 90.0% of time when present
- Phage (with cluster) where this start called: AN3_83 (A2), AbbyPaige_85 (A2), Agape74_85 (A2), BengiVuitton_85 (A2), Benvolio_82 (A2), BiancaTri92_81 (A2), DeerParkTS_79 (A2), Dignity_85 (A2), HippoHollow_80 (A2), Jerm_85 (A2), JoshKayV_85 (A2), Leviathan_85 (A2), LilTurb_84 (A2), Smeagan_86 (A2), Turbido_84 (A2), VA6_83 (A2), Whabigail7_83 (A2), XianYue_82 (A2),

Start 73:

- Found in 68 of 503 (13.5%) of genes in pham
- Manual Annotations of this start: 46 of 444
- Called 73.5% of time when present
- Phage (with cluster) where this start called: 40AC_78 (A17), Anselm_84 (A2), BabyBack_78 (A2), Baehexic_82 (A2), BobSwaget_77 (A2), Centaur_83 (A2), ChipMunk_84 (A2), Colin_82 (A2), Crucio_83 (A2), Dalmatian_83 (A2), Drake55_84 (A2), DudeLittle_81 (A2), Echild_85 (A2), Equemioh13_83 (A2), EvilGenius_83 (A2), Fameo_81 (A2), FiringLine_83 (A2), Flare16_83 (A2), GaugeLDP_77 (A2), Georgie2_85 (A2), Gratitude_81 (A2), HarryHoudini_83 (A2), Heffalump_80 (A2), IronMan_79 (A2), Iwokeuplikedis_86 (A2), KingCyrus_82 (A2), Larenn_81 (A2), Lokk_78 (A2), Malec_82 (A2), MiculUcigas_83 (A2), Miko_78 (A2), NaSiaTalie_84 (A2), NicoleTera_81 (A2), NothingSpecial_78 (A2), Piro94_82 (A2), Power_83 (A2), QueenB2_80 (A2), QueenBeesly_83 (A2), Rachaly_80 (A2), Retro23_83 (A2), SemperFi_83 (A2), Sknot_83 (A2), SnapTap_83 (A2), SweetiePie_83 (A2), TarsusIV_82 (A2), Terrific_84 (A2), Tristan_78 (A2), Trooper_82 (A2), Updawg_84 (A2), WideWale_84 (A2),

Start 74:

- Found in 2 of 503 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 444
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Stasia_73 (A4),

Start 75:

- Found in 9 of 503 (1.8%) of genes in pham
- Manual Annotations of this start: 6 of 444
- Called 77.8% of time when present
- Phage (with cluster) where this start called: AnnaL29_85 (A2), Changeling_82 (A2), ForesterFrank_78 (A2), Kalpine_85 (A2), Loser_86 (A2), RedRock_83 (A2), Trixie_83 (A2),

Start 76:

- Found in 9 of 503 (1.8%) of genes in pham
- Manual Annotations of this start: 7 of 444
- Called 77.8% of time when present

- Phage (with cluster) where this start called: AvatarAhPeg_74 (A4), Cindaradix_70 (A4), DroogsArmy_74 (A7), HINdeR_74 (A7), Miramae_74 (A4), Mundrea_74 (A4), Timshel_75 (A7),

Start 77:

- Found in 152 of 503 (30.2%) of genes in pham
- Manual Annotations of this start: 139 of 444
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Abdiel_74 (A4), Albee_75 (A4), Alberto7_76 (A4), Annyong_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), Blackmoor_74 (A4), Bombshell_75 (A4), Broseidon_75 (A4), Bruiser_74 (A4), BubbleTrouble_74 (A4), Burger_73 (A4), Caelakin_73 (A4), CentreCat_75 (A4), Cerulean_77 (A4), ChampagnePapi_78 (A4), Chaph_75 (A4), Chartreuse_82 (A6), 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), DirtyDunning_74 (A4), Dorothea_83 (A6), Druantia_74 (A4), Eagle_74 (A4), Eapen_75 (A4), Eris_74 (A4), Eros_75 (A4), Eurydice_76 (A4), 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), JetBlade_76 (A4), JoongJeon_74 (A4), KFPoly_74 (A4), Kampy_74 (A4), Kazan_84 (A6), KekoraPapaka_72 (A4), Kimona_76 (A19), Kingmustik0402_75 (A4), Kipper29_83 (A6), Koan_72 (A4), Koreni_74 (A4), Kratark_74 (A4), Kyee_75 (A4), LHTSCC_77 (A4), Landor_80 (A2), LappelDuVide_75 (A4), Lemur_75 (A4), LittleB_75 (A4), LittleGuy_75 (A4), LochMonster_76 (A4), Lorenzo_75 (A4), Lunsford_75 (A4), Maverick_74 (A4), Maxo_77 (A4), Mayonnaise_72 (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), Neeharika16_82 (A6), 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), RockieBear_72 (A4), Romney_74 (A4), Roosevelt_73 (A4), Rosa24_71 (A4), Ruin_75 (A4), Sabertooth_75 (A4), Scamp_75 (A4), SeniorClean_76 (A4), Shaka_73 (A4), SheldonCooper_75 (A4), Shygu2_74 (A4), Skipitt_74 (A4), SmellyB_83 (A6), Sparxx_76 (A4), Spino_74 (A4), SteMason_71 (A4), Sultana_75 (A4), SuperAwesome_83 (A6), Taquarus_74 (A4), Thanksgivukkah_74 (A4), TinaFeyge_73 (A4), Tinybot_74 (A4), TiroTheta9_74 (A4), TroyPia_76 (A4), TygerBlood_75 (A4), Ulysses_74 (A4), VohminGhazi_83 (A6), Wander_75 (A4), Wilbur_75 (A4), YoSam321_75 (A4),

Start 79:

- Found in 1 of 503 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 444
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chargerpower_83 (A22),

Start 80:

- Found in 15 of 503 (3.0%) of genes in pham
- Manual Annotations of this start: 1 of 444

- Called 6.7% of time when present
- Phage (with cluster) where this start called: Acolyte_77 (A2),

Start 81:

- Found in 22 of 503 (4.4%) of genes in pham
- Manual Annotations of this start: 18 of 444
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bonamassa_70 (A5), Chupacabra_80 (A10), Coog_67 (A5), Cuco_69 (A5), DontArgue_78 (A10), Drake94_80 (A10), DustyMartin_86 (A10), Eaglepride_86 (A10), Goose_84 (A10), HuhtaEnerson15_68 (A5), KittenMittens_78 (A10), Kristoff_81 (A10), LittleCherry_69 (A5), Midas2_67 (A5), OKCentral2016_82 (A10), PeaceMeal1_80 (A10), Poompha_80 (A10), Rebeuca_84 (A10), RhynO_71 (A10), Rowdy_86 (A10), Severus_81 (A10), Shapes_86 (A10),

Start 83:

- Found in 63 of 503 (12.5%) of genes in pham
- Manual Annotations of this start: 27 of 444
- Called 52.4% of time when present
- Phage (with cluster) where this start called: ArcherNM_78 (A2), Arissanae_82 (A9), BogosyJay_86 (A9), Darrell_85 (A9), DARTHPhader_78 (A12), EagleEye_83 (A16), EdogawaKiddo_86 (A9), EmyBug_84 (A9), Fayely_85 (A9), Gail_84 (A14), Hanray_85 (A9), Jeeves_84 (A14), Jiawan_85 (A9), LoneWolf_87 (A9), Luchador_82 (A14), Lucyedi_82 (A16), Maminaiaina_86 (A9), MissWhite_76 (A2), PainterBoy_82 (A16), Pharaoh_77 (A12), Prudy_78 (A2), Rahalelujah_86 (A9), Refuge_80 (A12), RyeScarlet_88 (A9), Sachima_83 (A9), SororFago_82 (A14), Spouty_85 (A9), Steamy_75 (A12), Sunhee_83 (A14), Toaka_85 (A9), Tubs_87 (A9), Vanisoa_82 (A9), Yecey3_88 (A9),

Start 84:

- Found in 40 of 503 (8.0%) of genes in pham
- Manual Annotations of this start: 25 of 444
- Called 77.5% of time when present
- Phage (with cluster) where this start called: Aneem_85 (A11), Bachome_82 (A11), Bowtie_81 (A11), Bud_79 (A11), Cintron_76 (A4), EZMoney23_79 (A2), Ebony_84 (A11), Et2Brutus_83 (A11), Fibonacci_83 (A11), Flaverint_85 (A11), Gilberta_81 (A11), Hutc2_80 (A11), Insomnia_83 (A11), Jabith_83 (A11), Joselito_83 (A11), Kimba_81 (A11), Lucivia_85 (A11), MaCh_84 (A11), Mabel_84 (A11), Mulciber_82 (A11), Munch_84 (A11), Orange_84 (A11), Petersenfast_78 (A11), Salz_79 (A11), Saskia_81 (A11), Sham4_80 (A11), Snape_84 (A11), Timothy_84 (A11), TinyTimmy_82 (A11), WeiHuaDA_85 (A2), Wolpertinger_83 (A11),

Start 85:

- Found in 4 of 503 (0.8%) of genes in pham
- Manual Annotations of this start: 4 of 444
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Conspiracy_71 (A5), Discoknowium_68 (A5), ForGetIt_71 (A5), Keziacharles14_84 (A9),

Start 87:

- Found in 9 of 503 (1.8%) of genes in pham
- Manual Annotations of this start: 4 of 444
- Called 44.4% of time when present

- Phage (with cluster) where this start called: Airmid_73 (A5), Topanga_73 (A10), Twister_84 (A10), WalterMcMickey_83 (A10),

Start 89:

- Found in 1 of 503 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 444
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MyraDee_79 (A18),

Start 90:

- Found in 28 of 503 (5.6%) of genes in pham
- Manual Annotations of this start: 23 of 444
- Called 82.1% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_83 (A6), BennyP_84 (A6), BlessJoy_84 (A6), Blue7_85 (A6), CloudWang3_84 (A6), Gladiator_80 (A6), Gruunaga_83 (A6), Hammer_84 (A6), Helmet_86 (A6), Hexamo_83 (A6), Indra_87 (A6), Koko_85 (A6), Lilbunny_83 (A6), Rifter_84 (A6), Roksolana_84 (A6), Temprado_85 (A6), ToneTone_81 (A6), Tucker_84 (A6), Wiks_83 (A6), WunderPhul_84 (A6), Yokurt_83 (A6), Zaka_84 (A6), Zulu_85 (A6),

Start 92:

- Found in 20 of 503 (4.0%) of genes in pham
- Manual Annotations of this start: 7 of 444
- Called 35.0% of time when present
- Phage (with cluster) where this start called: Isca_75 (A3), Lambert1_79 (A3), MK4_72 (A3), Margo_79 (A3), Norbert_75 (A3), QuinnKiro_78 (A3), Veracruz_76 (A3),

Start 94:

- Found in 133 of 503 (26.4%) of genes in pham
- Manual Annotations of this start: 87 of 444
- Called 82.7% of time when present
- Phage (with cluster) where this start called: Aglet_81 (A3), Aliter_80 (A9), Alma_85 (A9), Anubis_84 (A3), Ayanochan_85 (A9), B1_69 (A3), BabyRay_78 (A3), Beauxregard13_79 (A3), Beemo_87 (A9), Bellris_84 (A9), Benedict_74 (A5), Bigflo_77 (A3), BlueBird_81 (A3), Bugatti_79 (A3), Catalina_89 (A9), Chadwick_74 (A5), Clammy_79 (A3), CogOmlette_84 (A9), Colbster_76 (A3), Conquerage_85 (A9), Croquant_77 (A3), Cullens_81 (A3), Dieselweasel_81 (A3), DropBear_77 (A3), Eidsmoe_85 (A9), EITiger69_76 (A5), Elephantoon_87 (A9), EpicPhail_81 (A3), EtoileNova_77 (A3), ExplosioNervosa_85 (A9), Farber_80 (A3), Fernando_81 (A3), FlyCatcher_78 (A7), Fred313_76 (A3), GingkoMaracino_80 (A3), Giroux_82 (A3), Grif_78 (A3), Grum1_80 (A3), GtownJaz_80 (A3), Gwennie_75 (A3), Heathen_78 (A3), HelDan_79 (A3), Hercules11_80 (A3), Holes_86 (A9), Hookmount_79 (A3), HortumSL17_88 (A9), Idleandcovert_79 (A3), JF2_75 (A3), JF4_75 (A3), JHC117_75 (A3), JenCasNa_81 (A3), Jobu08_76 (A3), Kachowdy_76 (A3), LBerry_81 (A3), Lilleskat_84 (A9), LugYA_83 (A3), MA5_77 (A3), MadMarie_78 (A3), MarQuardt_80 (A3), Marchesa_78 (A3), Marie_78 (A3), Methuselah_73 (A3), Minispark_84 (A9), MoneyMay_80 (A3), Montavir_75 (A3), Myxus_87 (A9), Naca_73 (A5), Noella_80 (A3), Ollie_80 (A3), Onglai_85 (A9), P28Green_80 (A3), Panamaxus_76 (A3), Penny1_80 (A3), PetterN_78 (A5), Phaeder_87 (A9), Phantastic_80 (A3), Phoebe_81 (A3), Phonnegut_87 (A9), Phoxy_80 (A3), Pioneer_87 (A9), Pistachio_79 (A3), Pocahontas_78 (A3), Popcicle_79 (A3), PotatoSplit_81 (A3), Priya_85 (A9), Qobbit_85 (A9), ResDef_77 (A3), Roimos_77 (A3), Rummer_79 (A3), Sabinator_78

(A3), SaturnRing_79 (A3), Scherzo_85 (A9), Scout_78 (A3), Sheen_75 (A7), Snickers_80 (A3), SoYo_77 (A3), SoilDragon_80 (A3), Soshari_82 (A3), Spike509_80 (A3), TNguyen7_80 (A3), Taurus_81 (A3), Texage_77 (A3), Tiffany_79 (A3), Todacoro_79 (A3), Toro_76 (A7), Ugenie5_74 (A9), Vix_76 (A3), Wooldri_82 (A3), WorldCup_85 (A9), Zarafa_76 (A3),

Start 100:

- Found in 51 of 503 (10.1%) of genes in pham
- Manual Annotations of this start: 1 of 444
- Called 2.0% of time when present
- Phage (with cluster) where this start called: Stink_74 (A4),

Start 101:

- Found in 175 of 503 (34.8%) of genes in pham
- Manual Annotations of this start: 3 of 444
- Called 2.9% of time when present
- Phage (with cluster) where this start called: DelvinSonDorr_79 (A6), Garak_85 (A6), Jordennis_81 (A6), Priamo_85 (A6), SuperCallie99_80 (A6),

Start 105:

- Found in 40 of 503 (8.0%) of genes in pham
- Manual Annotations of this start: 3 of 444
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Charm_82 (A9), DreamTeam1_82 (A9), EricB_82 (A6), Klodlith_83 (A9), MegTheThird_83 (A9),

Summary by clusters:

There are 16 clusters represented in this pham: A14, A22, A16, A11, A10, A12, A19, A18, A3, A2, A5, A4, A7, A6, A9, A17,

Info for manual annotations of cluster A10:

- Start number 81 was manually annotated 12 times for cluster A10.
- Start number 87 was manually annotated 3 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 84 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 83 was manually annotated 4 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 83 was manually annotated 5 times for cluster A14.

Info for manual annotations of cluster A16:

- Start number 83 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 89 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 77 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 44 was manually annotated 1 time for cluster A2.
- Start number 68 was manually annotated 1 time for cluster A2.
- Start number 71 was manually annotated 2 times for cluster A2.
- Start number 72 was manually annotated 16 times for cluster A2.
- Start number 73 was manually annotated 46 times for cluster A2.
- Start number 75 was manually annotated 6 times for cluster A2.
- Start number 77 was manually annotated 5 times for cluster A2.
- Start number 80 was manually annotated 1 time for cluster A2.
- Start number 83 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A22:

- Start number 79 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:

- Start number 92 was manually annotated 7 times for cluster A3.
- Start number 94 was manually annotated 64 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 56 was manually annotated 1 time for cluster A4.
- Start number 57 was manually annotated 2 times for cluster A4.
- Start number 58 was manually annotated 13 times for cluster A4.
- Start number 66 was manually annotated 2 times for cluster A4.
- Start number 74 was manually annotated 1 time for cluster A4.
- Start number 76 was manually annotated 4 times for cluster A4.
- Start number 77 was manually annotated 116 times for cluster A4.
- Start number 84 was manually annotated 1 time for cluster A4.
- Start number 100 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A5:

- Start number 81 was manually annotated 6 times for cluster A5.
- Start number 85 was manually annotated 3 times for cluster A5.
- Start number 87 was manually annotated 1 time for cluster A5.
- Start number 94 was manually annotated 5 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 57 was manually annotated 1 time for cluster A6.
- Start number 77 was manually annotated 17 times for cluster A6.
- Start number 90 was manually annotated 23 times for cluster A6.
- Start number 101 was manually annotated 3 times for cluster A6.
- Start number 105 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A7:

- Start number 61 was manually annotated 1 time for cluster A7.
- Start number 76 was manually annotated 3 times for cluster A7.
- Start number 94 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A9:

- Start number 83 was manually annotated 13 times for cluster A9.
- Start number 85 was manually annotated 1 time for cluster A9.
- Start number 94 was manually annotated 17 times for cluster A9.
- Start number 105 was manually annotated 2 times for cluster A9.

Gene Information:

Gene: 20ES_85 Start: 47721, Stop: 47398, Start Num: 71

Candidate Starts for 20ES_85:

(Start: 71 @47721 has 2 MA's), (109, 47655), (118, 47613),

Gene: 40AC_78 Start: 47105, Stop: 46806, Start Num: 73

Candidate Starts for 40AC_78:

(Start: 73 @47105 has 46 MA's), (109, 47042), (115, 47018),

Gene: AN3_83 Start: 45926, Stop: 45603, Start Num: 72

Candidate Starts for AN3_83:

(15, 46256), (17, 46229), (45, 46019), (Start: 72 @45926 has 16 MA's), (Start: 73 @45923 has 46 MA's), (102, 45875), (109, 45860), (118, 45818),

Gene: AbbyPaige_85 Start: 47978, Stop: 47670, Start Num: 72

Candidate Starts for AbbyPaige_85:

(Start: 72 @47978 has 16 MA's), (Start: 73 @47975 has 46 MA's), (102, 47927), (109, 47912), (135, 47753),

Gene: AbbysRanger_74 Start: 45728, Stop: 45411, Start Num: 58

Candidate Starts for AbbysRanger_74:

(Start: 57 @45731 has 3 MA's), (Start: 58 @45728 has 13 MA's), (65, 45713), (82, 45677), (108, 45662), (115, 45623), (121, 45590),

Gene: Abdiel_74 Start: 45659, Stop: 45360, Start Num: 77

Candidate Starts for Abdiel_74:

(Start: 77 @45659 has 139 MA's), (Start: 101 @45617 has 3 MA's),

Gene: Achebe_73 Start: 45705, Stop: 45394, Start Num: 58

Candidate Starts for Achebe_73:

(Start: 57 @45708 has 3 MA's), (Start: 58 @45705 has 13 MA's), (Start: 66 @45687 has 2 MA's), (67, 45684), (82, 45654), (108, 45642), (115, 45603), (121, 45570),

Gene: Acolyte_77 Start: 46676, Stop: 46365, Start Num: 80

Candidate Starts for Acolyte_77:

(Start: 80 @46676 has 1 MA's),

Gene: Agape74_85 Start: 47954, Stop: 47646, Start Num: 72

Candidate Starts for Agape74_85:

(Start: 72 @47954 has 16 MA's), (Start: 73 @47951 has 46 MA's), (109, 47888), (135, 47729),

Gene: Aglet_81 Start: 45628, Stop: 45365, Start Num: 94

Candidate Starts for Aglet_81:

(63, 45691), (70, 45673), (Start: 94 @45628 has 87 MA's), (102, 45607),

Gene: Airmid_73 Start: 44940, Stop: 44644, Start Num: 87

Candidate Starts for Airmid_73:

(Start: 87 @44940 has 4 MA's), (Start: 94 @44928 has 87 MA's), (125, 44796), (128, 44772),

Gene: Albee_75 Start: 45647, Stop: 45348, Start Num: 77
Candidate Starts for Albee_75:
(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: Alberto7_76 Start: 45984, Stop: 45685, Start Num: 77
Candidate Starts for Alberto7_76:
(Start: 77 @45984 has 139 MA's), (Start: 101 @45942 has 3 MA's),

Gene: Aliter_80 Start: 45087, Stop: 44821, Start Num: 94
Candidate Starts for Aliter_80:
(Start: 83 @45105 has 27 MA's), (Start: 94 @45087 has 87 MA's), (104, 45066), (125, 44970),

Gene: Alma_85 Start: 47927, Stop: 47664, Start Num: 94
Candidate Starts for Alma_85:
(Start: 83 @47945 has 27 MA's), (Start: 94 @47927 has 87 MA's), (104, 47906), (125, 47810),

Gene: Aneem_85 Start: 46838, Stop: 46542, Start Num: 84
Candidate Starts for Aneem_85:
(Start: 84 @46838 has 25 MA's), (91, 46829), (93, 46826), (103, 46799), (107, 46790), (125, 46700),

Gene: AnnaL29_85 Start: 48114, Stop: 47815, Start Num: 75
Candidate Starts for AnnaL29_85:
(Start: 75 @48114 has 6 MA's), (82, 48102), (Start: 84 @48099 has 25 MA's), (86, 48096), (Start: 100 @48075 has 1 MA's), (109, 48054),

Gene: Annyong_74 Start: 45692, Stop: 45393, Start Num: 77
Candidate Starts for Annyong_74:
(Start: 77 @45692 has 139 MA's), (Start: 101 @45650 has 3 MA's),

Gene: Anselm_84 Start: 47862, Stop: 47560, Start Num: 73
Candidate Starts for Anselm_84:
(Start: 73 @47862 has 46 MA's), (Start: 100 @47823 has 1 MA's), (102, 47817), (135, 47643),

Gene: Anubis_84 Start: 45514, Stop: 45251, Start Num: 94
Candidate Starts for Anubis_84:
(63, 45577), (70, 45559), (Start: 94 @45514 has 87 MA's), (102, 45493),

Gene: ArcherNM_78 Start: 47236, Stop: 46946, Start Num: 83
Candidate Starts for ArcherNM_78:
(Start: 83 @47236 has 27 MA's), (97, 47215), (98, 47212),

Gene: Arissanae_82 Start: 47825, Stop: 47556, Start Num: 83
Candidate Starts for Arissanae_82:
(Start: 83 @47825 has 27 MA's), (Start: 94 @47807 has 87 MA's), (104, 47786), (Start: 105 @47783 has 3 MA's), (126, 47687),

Gene: Artemis2UCLA_83 Start: 45479, Stop: 45216, Start Num: 90
Candidate Starts for Artemis2UCLA_83:
(18, 45779), (26, 45722), (27, 45719), (31, 45674), (59, 45551), (Start: 90 @45479 has 23 MA's),
(Start: 101 @45467 has 3 MA's), (104, 45461), (115, 45422),

Gene: Arturo_72 Start: 45775, Stop: 45476, Start Num: 77
Candidate Starts for Arturo_72:

(Start: 77 @45775 has 139 MA's), (Start: 101 @45733 has 3 MA's),

Gene: AvatarAhPeg_74 Start: 45580, Stop: 45284, Start Num: 76

Candidate Starts for AvatarAhPeg_74:

(Start: 76 @45580 has 7 MA's), (Start: 100 @45559 has 1 MA's), (108, 45541), (120, 45472), (133, 45373),

Gene: Avle17_75 Start: 45641, Stop: 45342, Start Num: 77

Candidate Starts for Avle17_75:

(Start: 77 @45641 has 139 MA's), (Start: 101 @45599 has 3 MA's),

Gene: Ayanochan_85 Start: 47710, Stop: 47447, Start Num: 94

Candidate Starts for Ayanochan_85:

(Start: 83 @47728 has 27 MA's), (Start: 94 @47710 has 87 MA's), (104, 47689), (125, 47593),

Gene: B1_69 Start: 43846, Stop: 43562, Start Num: 94

Candidate Starts for B1_69:

(78, 43867), (Start: 92 @43849 has 7 MA's), (Start: 94 @43846 has 87 MA's), (125, 43726), (135, 43642),

Gene: BABullseye_76 Start: 43895, Stop: 43605, Start Num: 77

Candidate Starts for BABullseye_76:

(34, 44039), (38, 44009), (55, 43943), (Start: 57 @43937 has 3 MA's), (Start: 77 @43895 has 139 MA's), (Start: 101 @43853 has 3 MA's), (102, 43850), (Start: 105 @43844 has 3 MA's), (106, 43841), (110, 43832), (121, 43775),

Gene: Baby16_75 Start: 45658, Stop: 45359, Start Num: 77

Candidate Starts for Baby16_75:

(Start: 77 @45658 has 139 MA's), (Start: 101 @45616 has 3 MA's),

Gene: BabyBack_78 Start: 47102, Stop: 46782, Start Num: 73

Candidate Starts for BabyBack_78:

(Start: 73 @47102 has 46 MA's), (82, 47087), (97, 47069), (99, 47063), (102, 47054), (108, 47042), (129, 46934), (131, 46898), (135, 46868),

Gene: BabyRay_78 Start: 45607, Stop: 45326, Start Num: 94

Candidate Starts for BabyRay_78:

(Start: 94 @45607 has 87 MA's), (135, 45406),

Gene: Bachome_82 Start: 45718, Stop: 45422, Start Num: 84

Candidate Starts for Bachome_82:

(Start: 84 @45718 has 25 MA's), (91, 45709), (103, 45679), (107, 45670), (125, 45580),

Gene: Backyardigan_72 Start: 45744, Stop: 45427, Start Num: 58

Candidate Starts for Backyardigan_72:

(Start: 57 @45747 has 3 MA's), (Start: 58 @45744 has 13 MA's), (65, 45729), (82, 45693), (108, 45678), (115, 45639), (121, 45606),

Gene: Bactobuster_74 Start: 46579, Stop: 46271, Start Num: 77

Candidate Starts for Bactobuster_74:

(Start: 77 @46579 has 139 MA's), (Start: 101 @46537 has 3 MA's), (115, 46477),

Gene: Badger_73 Start: 45691, Stop: 45395, Start Num: 66

Candidate Starts for Badger_73:

(Start: 57 @45712 has 3 MA's), (Start: 58 @45709 has 13 MA's), (Start: 66 @45691 has 2 MA's), (67, 45688), (82, 45658), (108, 45646), (115, 45607), (121, 45574),

Gene: Baehexic_82 Start: 47345, Stop: 47034, Start Num: 73

Candidate Starts for Baehexic_82:

(Start: 73 @47345 has 46 MA's), (Start: 80 @47333 has 1 MA's), (Start: 100 @47303 has 1 MA's), (102, 47297), (109, 47282),

Gene: BangNhom_72 Start: 46084, Stop: 45785, Start Num: 77

Candidate Starts for BangNhom_72:

(Start: 77 @46084 has 139 MA's), (Start: 101 @46042 has 3 MA's),

Gene: Bartimeaus_75 Start: 45649, Stop: 45350, Start Num: 77

Candidate Starts for Bartimeaus_75:

(Start: 77 @45649 has 139 MA's), (Start: 101 @45607 has 3 MA's),

Gene: Beauxregard13_79 Start: 45631, Stop: 45368, Start Num: 94

Candidate Starts for Beauxregard13_79:

(63, 45694), (70, 45676), (Start: 94 @45631 has 87 MA's), (102, 45610),

Gene: Beemo_87 Start: 47921, Stop: 47658, Start Num: 94

Candidate Starts for Beemo_87:

(Start: 83 @47939 has 27 MA's), (Start: 94 @47921 has 87 MA's), (104, 47900), (125, 47804),

Gene: Bellris_84 Start: 47439, Stop: 47188, Start Num: 94

Candidate Starts for Bellris_84:

(Start: 83 @47457 has 27 MA's), (Start: 94 @47439 has 87 MA's), (104, 47418),

Gene: BellusTerra_76 Start: 45688, Stop: 45389, Start Num: 77

Candidate Starts for BellusTerra_76:

(Start: 77 @45688 has 139 MA's), (Start: 101 @45646 has 3 MA's),

Gene: Benedict_74 Start: 44660, Stop: 44376, Start Num: 94

Candidate Starts for Benedict_74:

(Start: 87 @44672 has 4 MA's), (Start: 94 @44660 has 87 MA's), (104, 44633), (125, 44528), (128, 44504),

Gene: BengiVuitton_85 Start: 47823, Stop: 47497, Start Num: 72

Candidate Starts for BengiVuitton_85:

(Start: 71 @47826 has 2 MA's), (Start: 72 @47823 has 16 MA's), (Start: 84 @47802 has 25 MA's), (102, 47772), (109, 47757), (118, 47715),

Gene: BennyP_84 Start: 45644, Stop: 45381, Start Num: 90

Candidate Starts for BennyP_84:

(18, 45944), (26, 45887), (27, 45884), (31, 45839), (59, 45716), (Start: 90 @45644 has 23 MA's), (Start: 101 @45632 has 3 MA's), (104, 45626), (115, 45587),

Gene: Benvolio_82 Start: 47539, Stop: 47231, Start Num: 72

Candidate Starts for Benvolio_82:

(9, 48016), (13, 47887), (28, 47737), (42, 47632), (Start: 72 @47539 has 16 MA's), (Start: 73 @47536 has 46 MA's), (Start: 100 @47494 has 1 MA's), (102, 47488), (135, 47314),

Gene: BiancaTri92_81 Start: 47402, Stop: 47094, Start Num: 72
Candidate Starts for BiancaTri92_81:
(46, 47492), (Start: 72 @47402 has 16 MA's), (Start: 73 @47399 has 46 MA's), (Start: 100 @47357 has 1 MA's), (109, 47336),

Gene: Bigflo_77 Start: 45627, Stop: 45364, Start Num: 94
Candidate Starts for Bigflo_77:
(63, 45690), (70, 45672), (Start: 94 @45627 has 87 MA's), (102, 45606),

Gene: Blackmoor_74 Start: 45649, Stop: 45350, Start Num: 77
Candidate Starts for Blackmoor_74:
(Start: 77 @45649 has 139 MA's), (Start: 101 @45607 has 3 MA's),

Gene: BlessJoy_84 Start: 46000, Stop: 45737, Start Num: 90
Candidate Starts for BlessJoy_84:
(18, 46300), (26, 46243), (27, 46240), (31, 46195), (59, 46072), (Start: 90 @46000 has 23 MA's), (Start: 101 @45988 has 3 MA's), (104, 45982), (115, 45943),

Gene: Blinn1_87 Start: 46595, Stop: 46263, Start Num: 57
Candidate Starts for Blinn1_87:
(34, 46697), (38, 46667), (55, 46601), (Start: 57 @46595 has 3 MA's), (Start: 77 @46553 has 139 MA's), (102, 46508), (Start: 105 @46502 has 3 MA's), (106, 46499), (110, 46490),

Gene: Blue7_85 Start: 45698, Stop: 45435, Start Num: 90
Candidate Starts for Blue7_85:
(18, 45998), (26, 45941), (27, 45938), (31, 45893), (59, 45770), (Start: 90 @45698 has 23 MA's), (Start: 101 @45686 has 3 MA's), (104, 45680), (115, 45641),

Gene: BlueBird_81 Start: 46036, Stop: 45764, Start Num: 94
Candidate Starts for BlueBird_81:
(Start: 94 @46036 has 87 MA's),

Gene: BobSwaget_77 Start: 45351, Stop: 45037, Start Num: 73
Candidate Starts for BobSwaget_77:
(Start: 73 @45351 has 46 MA's), (Start: 90 @45324 has 23 MA's), (97, 45315),

Gene: BogosyJay_86 Start: 47989, Stop: 47711, Start Num: 83
Candidate Starts for BogosyJay_86:
(Start: 83 @47989 has 27 MA's), (104, 47950),

Gene: Bombshell_75 Start: 45644, Stop: 45345, Start Num: 77
Candidate Starts for Bombshell_75:
(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: Bonamassa_70 Start: 44301, Stop: 43999, Start Num: 81
Candidate Starts for Bonamassa_70:
(Start: 81 @44301 has 18 MA's), (96, 44274), (98, 44268), (130, 44115),

Gene: Bowtie_81 Start: 45445, Stop: 45149, Start Num: 84
Candidate Starts for Bowtie_81:
(Start: 84 @45445 has 25 MA's), (91, 45436), (93, 45433), (103, 45406), (107, 45397), (125, 45307),

Gene: Broseidon_75 Start: 45650, Stop: 45351, Start Num: 77

Candidate Starts for Broseidon_75:

(Start: 77 @45650 has 139 MA's), (Start: 101 @45608 has 3 MA's),

Gene: Bruiser_74 Start: 45647, Stop: 45348, Start Num: 77

Candidate Starts for Bruiser_74:

(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: BubbleTrouble_74 Start: 45674, Stop: 45375, Start Num: 77

Candidate Starts for BubbleTrouble_74:

(Start: 77 @45674 has 139 MA's), (Start: 101 @45632 has 3 MA's),

Gene: Bud_79 Start: 45275, Stop: 44979, Start Num: 84

Candidate Starts for Bud_79:

(Start: 84 @45275 has 25 MA's), (91, 45266), (93, 45263), (103, 45236), (107, 45227), (125, 45137),

Gene: Bugatti_79 Start: 46036, Stop: 45764, Start Num: 94

Candidate Starts for Bugatti_79:

(Start: 94 @46036 has 87 MA's),

Gene: Bumblebee11_73 Start: 45711, Stop: 45397, Start Num: 57

Candidate Starts for Bumblebee11_73:

(Start: 57 @45711 has 3 MA's), (Start: 58 @45708 has 13 MA's), (Start: 66 @45690 has 2 MA's), (67, 45687), (82, 45657), (108, 45645), (115, 45606), (121, 45573),

Gene: Burger_73 Start: 45647, Stop: 45348, Start Num: 77

Candidate Starts for Burger_73:

(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: CRB1_84 Start: 47974, Stop: 47651, Start Num: 71

Candidate Starts for CRB1_84:

(Start: 71 @47974 has 2 MA's), (109, 47908), (118, 47866),

Gene: Caelakin_73 Start: 45647, Stop: 45348, Start Num: 77

Candidate Starts for Caelakin_73:

(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: Camperdownii_73 Start: 45334, Stop: 45020, Start Num: 58

Candidate Starts for Camperdownii_73:

(Start: 57 @45337 has 3 MA's), (Start: 58 @45334 has 13 MA's), (Start: 66 @45316 has 2 MA's), (67, 45313), (108, 45271), (115, 45232),

Gene: Candra_81 Start: 45632, Stop: 45300, Start Num: 57

Candidate Starts for Candra_81:

(34, 45734), (38, 45704), (55, 45638), (Start: 57 @45632 has 3 MA's), (Start: 77 @45590 has 139 MA's), (Start: 101 @45548 has 3 MA's), (102, 45545), (Start: 105 @45539 has 3 MA's), (106, 45536), (110, 45527), (121, 45470), (124, 45455),

Gene: Catalina_89 Start: 48034, Stop: 47768, Start Num: 94

Candidate Starts for Catalina_89:

(Start: 83 @48052 has 27 MA's), (Start: 94 @48034 has 87 MA's), (104, 48013), (125, 47917),

Gene: Centaur_83 Start: 47223, Stop: 46912, Start Num: 73

Candidate Starts for Centaur_83:

(Start: 73 @47223 has 46 MA's), (Start: 80 @47211 has 1 MA's), (Start: 100 @47181 has 1 MA's), (102, 47175), (109, 47160),

Gene: CentreCat_75 Start: 45687, Stop: 45388, Start Num: 77
Candidate Starts for CentreCat_75:
(Start: 77 @45687 has 139 MA's), (Start: 101 @45645 has 3 MA's),

Gene: Cerulean_77 Start: 46085, Stop: 45786, Start Num: 77
Candidate Starts for Cerulean_77:
(Start: 77 @46085 has 139 MA's), (Start: 101 @46043 has 3 MA's),

Gene: Chadwick_74 Start: 44404, Stop: 44120, Start Num: 94
Candidate Starts for Chadwick_74:
(Start: 87 @44416 has 4 MA's), (Start: 94 @44404 has 87 MA's), (104, 44377), (125, 44272), (128, 44248),

Gene: ChampagnePapi_78 Start: 46087, Stop: 45785, Start Num: 77
Candidate Starts for ChampagnePapi_78:
(Start: 77 @46087 has 139 MA's), (Start: 101 @46045 has 3 MA's), (121, 45967),

Gene: Changeling_82 Start: 47917, Stop: 47612, Start Num: 75
Candidate Starts for Changeling_82:
(Start: 75 @47917 has 6 MA's), (82, 47905), (Start: 84 @47902 has 25 MA's), (86, 47899), (Start: 100 @47878 has 1 MA's), (109, 47857),

Gene: Chaph_75 Start: 45658, Stop: 45359, Start Num: 77
Candidate Starts for Chaph_75:
(Start: 77 @45658 has 139 MA's), (Start: 101 @45616 has 3 MA's),

Gene: Chargerpower_83 Start: 45994, Stop: 45686, Start Num: 79
Candidate Starts for Chargerpower_83:
(23, 46240), (Start: 79 @45994 has 1 MA's), (106, 45949), (109, 45946), (125, 45856),

Gene: Charm_82 Start: 47297, Stop: 47064, Start Num: 105
Candidate Starts for Charm_82:
(22, 47579), (Start: 83 @47333 has 27 MA's), (Start: 105 @47297 has 3 MA's),

Gene: Chartreuse_82 Start: 44901, Stop: 44611, Start Num: 77
Candidate Starts for Chartreuse_82:
(34, 45045), (38, 45015), (55, 44949), (Start: 57 @44943 has 3 MA's), (Start: 77 @44901 has 139 MA's), (Start: 101 @44859 has 3 MA's), (102, 44856), (Start: 105 @44850 has 3 MA's), (106, 44847), (110, 44838), (121, 44781),

Gene: ChipMunk_84 Start: 48884, Stop: 48579, Start Num: 73
Candidate Starts for ChipMunk_84:
(Start: 73 @48884 has 46 MA's), (Start: 100 @48845 has 1 MA's), (102, 48839), (135, 48665),

Gene: Chupacabra_80 Start: 48379, Stop: 48086, Start Num: 81
Candidate Starts for Chupacabra_80:
(14, 48739), (20, 48643), (Start: 81 @48379 has 18 MA's), (110, 48325),

Gene: Cici_74 Start: 45723, Stop: 45412, Start Num: 58
Candidate Starts for Cici_74:

(Start: 57 @45726 has 3 MA's), (Start: 58 @45723 has 13 MA's), (Start: 66 @45705 has 2 MA's), (67, 45702), (82, 45672), (108, 45660), (115, 45621), (121, 45588),

Gene: Cindaradix_70 Start: 45542, Stop: 45246, Start Num: 76

Candidate Starts for Cindaradix_70:

(Start: 76 @45542 has 7 MA's), (Start: 100 @45521 has 1 MA's), (108, 45503),

Gene: Cintron_76 Start: 45786, Stop: 45499, Start Num: 84

Candidate Starts for Cintron_76:

(24, 46035), (41, 45912), (69, 45819), (Start: 74 @45804 has 1 MA's), (Start: 76 @45801 has 7 MA's), (Start: 84 @45786 has 25 MA's),

Gene: Citius_75 Start: 45668, Stop: 45369, Start Num: 77

Candidate Starts for Citius_75:

(Start: 77 @45668 has 139 MA's), (Start: 101 @45626 has 3 MA's),

Gene: Clammy_79 Start: 46036, Stop: 45764, Start Num: 94

Candidate Starts for Clammy_79:

(Start: 94 @46036 has 87 MA's),

Gene: Clarenza_74 Start: 45644, Stop: 45345, Start Num: 77

Candidate Starts for Clarenza_74:

(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: CloudWang3_84 Start: 46008, Stop: 45697, Start Num: 90

Candidate Starts for CloudWang3_84:

(10, 46461), (25, 46254), (27, 46248), (59, 46080), (Start: 90 @46008 has 23 MA's), (Start: 100 @45990 has 1 MA's), (Start: 101 @45987 has 3 MA's), (102, 45984), (108, 45972), (110, 45966), (111, 45963), (115, 45942), (122, 45906),

Gene: Cocoaberry_75 Start: 45648, Stop: 45349, Start Num: 77

Candidate Starts for Cocoaberry_75:

(Start: 77 @45648 has 139 MA's), (Start: 101 @45606 has 3 MA's),

Gene: CogOmlette_84 Start: 47436, Stop: 47185, Start Num: 94

Candidate Starts for CogOmlette_84:

(Start: 83 @47454 has 27 MA's), (Start: 94 @47436 has 87 MA's), (104, 47415),

Gene: Colbster_76 Start: 45631, Stop: 45368, Start Num: 94

Candidate Starts for Colbster_76:

(63, 45694), (70, 45676), (Start: 94 @45631 has 87 MA's), (102, 45610),

Gene: Colin_82 Start: 48298, Stop: 47996, Start Num: 73

Candidate Starts for Colin_82:

(Start: 73 @48298 has 46 MA's),

Gene: Commander_73 Start: 45645, Stop: 45346, Start Num: 77

Candidate Starts for Commander_73:

(Start: 77 @45645 has 139 MA's), (Start: 101 @45603 has 3 MA's),

Gene: Connomayer_75 Start: 45647, Stop: 45348, Start Num: 77

Candidate Starts for Connomayer_75:

(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: Conquerage_85 Start: 47696, Stop: 47433, Start Num: 94
Candidate Starts for Conquerage_85:
(Start: 83 @47714 has 27 MA's), (Start: 94 @47696 has 87 MA's), (104, 47675), (125, 47579),

Gene: Conspiracy_71 Start: 44353, Stop: 44057, Start Num: 85
Candidate Starts for Conspiracy_71:
(Start: 85 @44353 has 4 MA's), (96, 44332), (130, 44173),

Gene: Coog_67 Start: 44122, Stop: 43820, Start Num: 81
Candidate Starts for Coog_67:
(Start: 81 @44122 has 18 MA's), (Start: 105 @44071 has 3 MA's), (106, 44068), (127, 43960), (130, 43936),

Gene: Cookiedough_83 Start: 46208, Stop: 45918, Start Num: 77
Candidate Starts for Cookiedough_83:
(34, 46352), (38, 46322), (55, 46256), (Start: 57 @46250 has 3 MA's), (Start: 77 @46208 has 139 MA's), (Start: 101 @46166 has 3 MA's), (102, 46163), (Start: 105 @46157 has 3 MA's), (106, 46154), (110, 46145), (121, 46088),

Gene: Croquant_77 Start: 45628, Stop: 45365, Start Num: 94
Candidate Starts for Croquant_77:
(63, 45691), (70, 45673), (Start: 94 @45628 has 87 MA's), (102, 45607),

Gene: Crucio_83 Start: 47825, Stop: 47466, Start Num: 73
Candidate Starts for Crucio_83:
(Start: 73 @47825 has 46 MA's), (102, 47777), (109, 47762), (135, 47552),

Gene: Cuco_69 Start: 43982, Stop: 43680, Start Num: 81
Candidate Starts for Cuco_69:
(Start: 81 @43982 has 18 MA's), (Start: 105 @43931 has 3 MA's), (106, 43928), (127, 43820), (130, 43796),

Gene: Cullens_81 Start: 45630, Stop: 45367, Start Num: 94
Candidate Starts for Cullens_81:
(63, 45693), (70, 45675), (Start: 94 @45630 has 87 MA's), (102, 45609),

Gene: DaVinci_81 Start: 44955, Stop: 44665, Start Num: 77
Candidate Starts for DaVinci_81:
(34, 45099), (38, 45069), (55, 45003), (Start: 57 @44997 has 3 MA's), (Start: 77 @44955 has 139 MA's), (Start: 101 @44913 has 3 MA's), (102, 44910), (Start: 105 @44904 has 3 MA's), (106, 44901), (110, 44892), (121, 44835),

Gene: Dalmatian_83 Start: 47647, Stop: 47291, Start Num: 73
Candidate Starts for Dalmatian_83:
(Start: 73 @47647 has 46 MA's), (102, 47602), (109, 47587), (135, 47377),

Gene: Darrell_85 Start: 47142, Stop: 46864, Start Num: 83
Candidate Starts for Darrell_85:
(Start: 83 @47142 has 27 MA's), (Start: 94 @47124 has 87 MA's), (104, 47103),

Gene: DarthPhader_78 Start: 46974, Stop: 46699, Start Num: 83
Candidate Starts for DarthPhader_78:

(42, 47103), (50, 47070), (52, 47061), (Start: 83 @46974 has 27 MA's), (97, 46953), (106, 46929), (112, 46917),

Gene: Datway_74 Start: 45727, Stop: 45410, Start Num: 58

Candidate Starts for Datway_74:

(Start: 57 @45730 has 3 MA's), (Start: 58 @45727 has 13 MA's), (65, 45712), (82, 45676), (108, 45661), (115, 45622), (121, 45589),

Gene: Deano_72 Start: 45655, Stop: 45356, Start Num: 77

Candidate Starts for Deano_72:

(Start: 77 @45655 has 139 MA's), (Start: 101 @45613 has 3 MA's),

Gene: DeerParkTS_79 Start: 46270, Stop: 45959, Start Num: 72

Candidate Starts for DeerParkTS_79:

(Start: 72 @46270 has 16 MA's), (Start: 73 @46267 has 46 MA's), (Start: 100 @46228 has 1 MA's), (Start: 101 @46225 has 3 MA's), (118, 46165),

Gene: Deloris_85 Start: 47519, Stop: 47190, Start Num: 71

Candidate Starts for Deloris_85:

(Start: 71 @47519 has 2 MA's), (Start: 72 @47516 has 16 MA's), (Start: 84 @47495 has 25 MA's), (102, 47465), (109, 47450), (118, 47408),

Gene: DelvinSonDorr_79 Start: 45571, Stop: 45323, Start Num: 101

Candidate Starts for DelvinSonDorr_79:

(Start: 77 @45613 has 139 MA's), (Start: 101 @45571 has 3 MA's), (102, 45568), (Start: 105 @45562 has 3 MA's), (106, 45559), (110, 45550), (121, 45493),

Gene: Dhanush_75 Start: 45650, Stop: 45351, Start Num: 77

Candidate Starts for Dhanush_75:

(Start: 77 @45650 has 139 MA's), (Start: 101 @45608 has 3 MA's),

Gene: Dieselweasel_81 Start: 45629, Stop: 45366, Start Num: 94

Candidate Starts for Dieselweasel_81:

(63, 45692), (70, 45674), (Start: 94 @45629 has 87 MA's), (102, 45608),

Gene: Dignity_85 Start: 48061, Stop: 47753, Start Num: 72

Candidate Starts for Dignity_85:

(Start: 72 @48061 has 16 MA's), (Start: 73 @48058 has 46 MA's), (102, 48010), (109, 47995), (135, 47836),

Gene: DirtyDunning_74 Start: 45659, Stop: 45360, Start Num: 77

Candidate Starts for DirtyDunning_74:

(Start: 77 @45659 has 139 MA's), (Start: 101 @45617 has 3 MA's),

Gene: Discoknowium_68 Start: 43870, Stop: 43574, Start Num: 85

Candidate Starts for Discoknowium_68:

(Start: 85 @43870 has 4 MA's), (96, 43849), (130, 43690),

Gene: DontArgue_78 Start: 47236, Stop: 46952, Start Num: 81

Candidate Starts for DontArgue_78:

(Start: 81 @47236 has 18 MA's),

Gene: Dorothea_83 Start: 46201, Stop: 45911, Start Num: 77

Candidate Starts for Dorothea_83:

(34, 46345), (38, 46315), (55, 46249), (Start: 57 @46243 has 3 MA's), (Start: 77 @46201 has 139 MA's), (Start: 101 @46159 has 3 MA's), (102, 46156), (Start: 105 @46150 has 3 MA's), (106, 46147), (110, 46138), (121, 46081),

Gene: Drake55_84 Start: 47474, Stop: 47163, Start Num: 73

Candidate Starts for Drake55_84:

(Start: 73 @47474 has 46 MA's), (Start: 80 @47462 has 1 MA's), (Start: 100 @47432 has 1 MA's), (102, 47426), (109, 47411),

Gene: Drake94_80 Start: 47533, Stop: 47246, Start Num: 81

Candidate Starts for Drake94_80:

(2, 48340), (3, 48319), (4, 48307), (14, 47893), (20, 47797), (Start: 81 @47533 has 18 MA's), (Start: 94 @47518 has 87 MA's), (102, 47500),

Gene: DreamTeam1_82 Start: 47145, Stop: 46912, Start Num: 105

Candidate Starts for DreamTeam1_82:

(22, 47427), (Start: 83 @47181 has 27 MA's), (Start: 105 @47145 has 3 MA's),

Gene: DroogsArmy_74 Start: 48703, Stop: 48410, Start Num: 76

Candidate Starts for DroogsArmy_74:

(35, 48850), (40, 48817), (Start: 76 @48703 has 7 MA's), (97, 48673), (109, 48643),

Gene: DropBear_77 Start: 45965, Stop: 45681, Start Num: 94

Candidate Starts for DropBear_77:

(Start: 94 @45965 has 87 MA's), (135, 45761),

Gene: Druantia_74 Start: 45650, Stop: 45351, Start Num: 77

Candidate Starts for Druantia_74:

(Start: 77 @45650 has 139 MA's),

Gene: DudeLittle_81 Start: 47365, Stop: 47060, Start Num: 73

Candidate Starts for DudeLittle_81:

(Start: 73 @47365 has 46 MA's), (102, 47320), (109, 47305), (118, 47263), (135, 47146),

Gene: DustyMartin_86 Start: 48631, Stop: 48341, Start Num: 81

Candidate Starts for DustyMartin_86:

(Start: 81 @48631 has 18 MA's),

Gene: EZMoney23_79 Start: 46912, Stop: 46625, Start Num: 84

Candidate Starts for EZMoney23_79:

(21, 47167), (Start: 73 @46927 has 46 MA's), (Start: 84 @46912 has 25 MA's), (86, 46909), (Start: 100 @46888 has 1 MA's),

Gene: Eagle_74 Start: 45709, Stop: 45410, Start Num: 77

Candidate Starts for Eagle_74:

(Start: 77 @45709 has 139 MA's),

Gene: EagleEye_83 Start: 46835, Stop: 46572, Start Num: 83

Candidate Starts for EagleEye_83:

(8, 47399), (23, 47081), (Start: 83 @46835 has 27 MA's), (106, 46799), (109, 46796),

Gene: Eaglepride_86 Start: 48465, Stop: 48175, Start Num: 81

Candidate Starts for Eaglepride_86:
(Start: 81 @48465 has 18 MA's),

Gene: Eapen_75 Start: 45642, Stop: 45343, Start Num: 77
Candidate Starts for Eapen_75:
(53, 45714), (Start: 77 @45642 has 139 MA's), (Start: 101 @45600 has 3 MA's),

Gene: Ebony_84 Start: 46409, Stop: 46113, Start Num: 84
Candidate Starts for Ebony_84:
(Start: 84 @46409 has 25 MA's), (91, 46400), (103, 46370), (107, 46361), (125, 46271),

Gene: Echild_85 Start: 47560, Stop: 47255, Start Num: 73
Candidate Starts for Echild_85:
(9, 48040), (13, 47911), (28, 47761), (42, 47656), (Start: 72 @47563 has 16 MA's), (Start: 73 @47560 has 46 MA's), (Start: 100 @47518 has 1 MA's), (102, 47512), (135, 47338),

Gene: EdogawaKiddo_86 Start: 48016, Stop: 47735, Start Num: 83
Candidate Starts for EdogawaKiddo_86:
(Start: 83 @48016 has 27 MA's), (104, 47977), (125, 47881),

Gene: Eidsmoe_85 Start: 47688, Stop: 47425, Start Num: 94
Candidate Starts for Eidsmoe_85:
(Start: 83 @47706 has 27 MA's), (Start: 94 @47688 has 87 MA's), (104, 47667), (125, 47571),

Gene: EITiger69_76 Start: 45331, Stop: 45047, Start Num: 94
Candidate Starts for EITiger69_76:
(Start: 87 @45343 has 4 MA's), (Start: 94 @45331 has 87 MA's), (104, 45304), (125, 45199), (128, 45175),

Gene: Elephantoon_87 Start: 47851, Stop: 47588, Start Num: 94
Candidate Starts for Elephantoon_87:
(Start: 83 @47869 has 27 MA's), (Start: 94 @47851 has 87 MA's), (104, 47830),

Gene: EmyBug_84 Start: 47708, Stop: 47427, Start Num: 83
Candidate Starts for EmyBug_84:
(Start: 83 @47708 has 27 MA's), (Start: 94 @47690 has 87 MA's), (104, 47669), (125, 47573),

Gene: EpicPhail_81 Start: 45631, Stop: 45368, Start Num: 94
Candidate Starts for EpicPhail_81:
(63, 45694), (70, 45676), (Start: 94 @45631 has 87 MA's), (102, 45610),

Gene: Equemioh13_83 Start: 47452, Stop: 47141, Start Num: 73
Candidate Starts for Equemioh13_83:
(Start: 73 @47452 has 46 MA's), (Start: 80 @47440 has 1 MA's), (Start: 100 @47410 has 1 MA's), (102, 47404), (109, 47389),

Gene: EricB_82 Start: 45496, Stop: 45257, Start Num: 105
Candidate Starts for EricB_82:
(Start: 77 @45547 has 139 MA's), (Start: 101 @45505 has 3 MA's), (102, 45502), (Start: 105 @45496 has 3 MA's), (106, 45493), (110, 45484), (121, 45427),

Gene: Eris_74 Start: 45659, Stop: 45360, Start Num: 77
Candidate Starts for Eris_74:

(Start: 77 @45659 has 139 MA's), (Start: 101 @45617 has 3 MA's),

Gene: Eros_75 Start: 45649, Stop: 45350, Start Num: 77

Candidate Starts for Eros_75:

(Start: 77 @45649 has 139 MA's), (Start: 101 @45607 has 3 MA's),

Gene: Et2Brutus_83 Start: 46372, Stop: 46076, Start Num: 84

Candidate Starts for Et2Brutus_83:

(Start: 84 @46372 has 25 MA's), (91, 46363), (103, 46333), (107, 46324), (125, 46234),

Gene: EtoileNova_77 Start: 46002, Stop: 45724, Start Num: 94

Candidate Starts for EtoileNova_77:

(78, 46023), (Start: 92 @46005 has 7 MA's), (Start: 94 @46002 has 87 MA's),

Gene: Eurydice_76 Start: 45684, Stop: 45385, Start Num: 77

Candidate Starts for Eurydice_76:

(Start: 77 @45684 has 139 MA's), (Start: 101 @45642 has 3 MA's),

Gene: EvilGenius_83 Start: 48885, Stop: 48580, Start Num: 73

Candidate Starts for EvilGenius_83:

(Start: 73 @48885 has 46 MA's), (Start: 100 @48846 has 1 MA's), (102, 48840), (135, 48666),

Gene: ExplosioNervosa_85 Start: 47756, Stop: 47493, Start Num: 94

Candidate Starts for ExplosioNervosa_85:

(Start: 83 @47774 has 27 MA's), (Start: 94 @47756 has 87 MA's), (104, 47735), (125, 47639),

Gene: Fameo_81 Start: 47377, Stop: 47072, Start Num: 73

Candidate Starts for Fameo_81:

(Start: 73 @47377 has 46 MA's), (102, 47332), (135, 47158),

Gene: Farber_80 Start: 45617, Stop: 45354, Start Num: 94

Candidate Starts for Farber_80:

(63, 45680), (70, 45662), (Start: 94 @45617 has 87 MA's), (102, 45596),

Gene: Fayely_85 Start: 47682, Stop: 47401, Start Num: 83

Candidate Starts for Fayely_85:

(Start: 83 @47682 has 27 MA's), (Start: 94 @47664 has 87 MA's), (104, 47643), (125, 47547),

Gene: Fernando_81 Start: 45630, Stop: 45367, Start Num: 94

Candidate Starts for Fernando_81:

(63, 45693), (70, 45675), (Start: 94 @45630 has 87 MA's), (102, 45609),

Gene: Fibonacci_83 Start: 46378, Stop: 46082, Start Num: 84

Candidate Starts for Fibonacci_83:

(Start: 84 @46378 has 25 MA's), (91, 46369), (103, 46339), (107, 46330), (125, 46240),

Gene: FiringLine_83 Start: 47765, Stop: 47457, Start Num: 73

Candidate Starts for FiringLine_83:

(Start: 73 @47765 has 46 MA's), (102, 47717), (109, 47702), (118, 47660), (135, 47543),

Gene: First_0084 Start: 47621, Stop: 47298, Start Num: 71

Candidate Starts for First_0084:

(Start: 71 @47621 has 2 MA's), (109, 47555), (118, 47513),

Gene: Flare16_83 Start: 47267, Stop: 46956, Start Num: 73
Candidate Starts for Flare16_83:
(Start: 73 @47267 has 46 MA's), (Start: 80 @47255 has 1 MA's), (Start: 100 @47225 has 1 MA's),
(102, 47219), (109, 47204),

Gene: Flaverint_85 Start: 46836, Stop: 46540, Start Num: 84
Candidate Starts for Flaverint_85:
(Start: 84 @46836 has 25 MA's), (91, 46827), (93, 46824), (103, 46797), (107, 46788), (125, 46698),

Gene: Florean_75 Start: 45646, Stop: 45347, Start Num: 77
Candidate Starts for Florean_75:
(Start: 77 @45646 has 139 MA's), (Start: 101 @45604 has 3 MA's),

Gene: Flux_76 Start: 45645, Stop: 45346, Start Num: 77
Candidate Starts for Flux_76:
(Start: 77 @45645 has 139 MA's), (Start: 101 @45603 has 3 MA's),

Gene: FlyCatcher_78 Start: 49217, Stop: 48948, Start Num: 94
Candidate Starts for FlyCatcher_78:
(32, 49409), (36, 49391), (48, 49337), (49, 49334), (Start: 94 @49217 has 87 MA's), (98, 49205),
(Start: 105 @49187 has 3 MA's), (112, 49169), (113, 49163), (119, 49127), (125, 49088), (128, 49064),

Gene: ForGetIt_71 Start: 44378, Stop: 44082, Start Num: 85
Candidate Starts for ForGetIt_71:
(Start: 85 @44378 has 4 MA's), (96, 44357), (130, 44198),

Gene: ForesterFrank_78 Start: 47477, Stop: 47178, Start Num: 75
Candidate Starts for ForesterFrank_78:
(Start: 75 @47477 has 6 MA's), (88, 47456), (137, 47252),

Gene: Fred313_76 Start: 45666, Stop: 45382, Start Num: 94
Candidate Starts for Fred313_76:
(Start: 94 @45666 has 87 MA's), (135, 45462),

Gene: Funston_74 Start: 45644, Stop: 45345, Start Num: 77
Candidate Starts for Funston_74:
(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: Gadost_75 Start: 45648, Stop: 45349, Start Num: 77
Candidate Starts for Gadost_75:
(Start: 77 @45648 has 139 MA's), (Start: 101 @45606 has 3 MA's),

Gene: Gail_84 Start: 47375, Stop: 47103, Start Num: 83
Candidate Starts for Gail_84:
(39, 47507), (43, 47495), (60, 47432), (Start: 83 @47375 has 27 MA's), (106, 47339), (117, 47291),

Gene: Garak_85 Start: 45929, Stop: 45678, Start Num: 101
Candidate Starts for Garak_85:
(18, 46241), (26, 46184), (27, 46181), (31, 46136), (59, 46013), (Start: 90 @45941 has 23 MA's),
(Start: 101 @45929 has 3 MA's), (104, 45923), (115, 45884),

Gene: GaugeLDP_77 Start: 46661, Stop: 46341, Start Num: 73

Candidate Starts for GaugeLDP_77:

(Start: 73 @46661 has 46 MA's), (82, 46646), (97, 46628), (99, 46622), (102, 46613), (131, 46457), (135, 46430),

Gene: Georgie2_85 Start: 47969, Stop: 47661, Start Num: 73

Candidate Starts for Georgie2_85:

(Start: 73 @47969 has 46 MA's), (102, 47921), (109, 47906), (118, 47864), (135, 47747),

Gene: Gilberta_81 Start: 45712, Stop: 45416, Start Num: 84

Candidate Starts for Gilberta_81:

(Start: 84 @45712 has 25 MA's), (91, 45703), (103, 45673), (107, 45664), (125, 45574),

Gene: GingkoMaracino_80 Start: 45513, Stop: 45250, Start Num: 94

Candidate Starts for GingkoMaracino_80:

(63, 45576), (70, 45558), (Start: 94 @45513 has 87 MA's), (102, 45492),

Gene: Giroux_82 Start: 46035, Stop: 45763, Start Num: 94

Candidate Starts for Giroux_82:

(Start: 94 @46035 has 87 MA's),

Gene: Gladiator_80 Start: 45664, Stop: 45353, Start Num: 90

Candidate Starts for Gladiator_80:

(25, 45910), (27, 45904), (59, 45736), (Start: 90 @45664 has 23 MA's), (Start: 100 @45646 has 1 MA's), (Start: 101 @45643 has 3 MA's), (102, 45640), (104, 45637), (108, 45628), (110, 45622), (111, 45619), (115, 45598), (122, 45562),

Gene: Goose_84 Start: 48190, Stop: 47897, Start Num: 81

Candidate Starts for Goose_84:

(14, 48550), (20, 48454), (Start: 81 @48190 has 18 MA's), (110, 48136),

Gene: Gratitude_81 Start: 47452, Stop: 47141, Start Num: 73

Candidate Starts for Gratitude_81:

(Start: 73 @47452 has 46 MA's), (Start: 80 @47440 has 1 MA's), (Start: 100 @47410 has 1 MA's), (102, 47404), (109, 47389),

Gene: GreedyLawyer_77 Start: 45520, Stop: 45230, Start Num: 77

Candidate Starts for GreedyLawyer_77:

(34, 45664), (38, 45634), (55, 45568), (Start: 57 @45562 has 3 MA's), (Start: 77 @45520 has 139 MA's), (Start: 101 @45478 has 3 MA's), (102, 45475), (Start: 105 @45469 has 3 MA's), (106, 45466), (110, 45457), (121, 45400),

Gene: Grif_78 Start: 45704, Stop: 45441, Start Num: 94

Candidate Starts for Grif_78:

(63, 45767), (70, 45749), (Start: 94 @45704 has 87 MA's), (102, 45683),

Gene: Grum1_80 Start: 45630, Stop: 45367, Start Num: 94

Candidate Starts for Grum1_80:

(63, 45693), (70, 45675), (Start: 94 @45630 has 87 MA's), (102, 45609),

Gene: Gruunaga_83 Start: 45619, Stop: 45308, Start Num: 90

Candidate Starts for Gruunaga_83:

(25, 45865), (27, 45859), (59, 45691), (Start: 90 @45619 has 23 MA's), (Start: 100 @45601 has 1 MA's), (Start: 101 @45598 has 3 MA's), (102, 45595), (104, 45592), (108, 45583), (110, 45577), (111,

45574), (115, 45553), (122, 45517),

Gene: GtownJaz_80 Start: 45628, Stop: 45365, Start Num: 94

Candidate Starts for GtownJaz_80:

(63, 45691), (70, 45673), (Start: 94 @45628 has 87 MA's), (102, 45607),

Gene: Gwennie_75 Start: 45631, Stop: 45368, Start Num: 94

Candidate Starts for Gwennie_75:

(63, 45694), (70, 45676), (Start: 94 @45631 has 87 MA's), (102, 45610),

Gene: HINdeR_74 Start: 48078, Stop: 47791, Start Num: 76

Candidate Starts for HINdeR_74:

(35, 48225), (37, 48216), (Start: 76 @48078 has 7 MA's), (109, 48018),

Gene: HamSlice_71 Start: 45646, Stop: 45347, Start Num: 77

Candidate Starts for HamSlice_71:

(Start: 77 @45646 has 139 MA's), (Start: 101 @45604 has 3 MA's),

Gene: Hammer_84 Start: 45326, Stop: 45015, Start Num: 90

Candidate Starts for Hammer_84:

(10, 45779), (25, 45572), (27, 45566), (59, 45398), (Start: 90 @45326 has 23 MA's), (Start: 100 @45308 has 1 MA's), (Start: 101 @45305 has 3 MA's), (102, 45302), (104, 45299), (108, 45290), (110, 45284), (111, 45281), (115, 45260), (122, 45224),

Gene: Hanray_85 Start: 47995, Stop: 47711, Start Num: 83

Candidate Starts for Hanray_85:

(Start: 83 @47995 has 27 MA's), (104, 47956), (125, 47860),

Gene: Happiness_74 Start: 45670, Stop: 45368, Start Num: 77

Candidate Starts for Happiness_74:

(Start: 77 @45670 has 139 MA's), (Start: 101 @45628 has 3 MA's), (121, 45550),

Gene: HarryHoudini_83 Start: 47477, Stop: 47166, Start Num: 73

Candidate Starts for HarryHoudini_83:

(Start: 73 @47477 has 46 MA's), (Start: 80 @47465 has 1 MA's), (Start: 100 @47435 has 1 MA's), (102, 47429), (109, 47414),

Gene: Heathen_78 Start: 45754, Stop: 45470, Start Num: 94

Candidate Starts for Heathen_78:

(Start: 94 @45754 has 87 MA's), (135, 45550),

Gene: Heffalump_80 Start: 47845, Stop: 47540, Start Num: 73

Candidate Starts for Heffalump_80:

(Start: 73 @47845 has 46 MA's), (102, 47800), (135, 47626),

Gene: HelDan_79 Start: 45977, Stop: 45693, Start Num: 94

Candidate Starts for HelDan_79:

(Start: 94 @45977 has 87 MA's), (135, 45773),

Gene: Helmet_86 Start: 45941, Stop: 45678, Start Num: 90

Candidate Starts for Helmet_86:

(18, 46241), (26, 46184), (27, 46181), (31, 46136), (59, 46013), (Start: 90 @45941 has 23 MA's), (Start: 101 @45929 has 3 MA's), (104, 45923), (115, 45884),

Gene: Herbertwm_77 Start: 46431, Stop: 46096, Start Num: 68

Candidate Starts for Herbertwm_77:

(29, 46587), (30, 46551), (33, 46539), (Start: 44 @46485 has 1 MA's), (47, 46473), (Start: 68 @46431 has 1 MA's), (Start: 92 @46386 has 7 MA's), (115, 46332), (128, 46251), (136, 46188),

Gene: Hercules11_80 Start: 45639, Stop: 45376, Start Num: 94

Candidate Starts for Hercules11_80:

(63, 45702), (70, 45684), (Start: 94 @45639 has 87 MA's), (102, 45618),

Gene: Hexamo_83 Start: 45494, Stop: 45183, Start Num: 90

Candidate Starts for Hexamo_83:

(10, 45947), (25, 45740), (27, 45734), (59, 45566), (Start: 90 @45494 has 23 MA's), (Start: 100 @45476 has 1 MA's), (Start: 101 @45473 has 3 MA's), (102, 45470), (108, 45458), (110, 45452), (111, 45449), (115, 45428), (122, 45392),

Gene: HippoHollow_80 Start: 48451, Stop: 48131, Start Num: 72

Candidate Starts for HippoHollow_80:

(33, 48601), (39, 48565), (46, 48541), (Start: 72 @48451 has 16 MA's), (Start: 73 @48448 has 46 MA's), (Start: 100 @48409 has 1 MA's), (Start: 101 @48406 has 3 MA's), (118, 48346),

Gene: Holecx_86 Start: 47990, Stop: 47727, Start Num: 94

Candidate Starts for Holecx_86:

(Start: 83 @48008 has 27 MA's), (Start: 94 @47990 has 87 MA's), (104, 47969), (125, 47873),

Gene: Holli_74 Start: 45437, Stop: 45138, Start Num: 77

Candidate Starts for Holli_74:

(Start: 77 @45437 has 139 MA's), (Start: 101 @45395 has 3 MA's),

Gene: Hookmount_79 Start: 45998, Stop: 45720, Start Num: 94

Candidate Starts for Hookmount_79:

(78, 46019), (Start: 92 @46001 has 7 MA's), (Start: 94 @45998 has 87 MA's), (102, 45980),

Gene: Hoot_78 Start: 43405, Stop: 43115, Start Num: 77

Candidate Starts for Hoot_78:

(34, 43549), (38, 43519), (55, 43453), (Start: 57 @43447 has 3 MA's), (Start: 77 @43405 has 139 MA's), (Start: 101 @43363 has 3 MA's), (102, 43360), (Start: 105 @43354 has 3 MA's), (106, 43351), (110, 43342), (121, 43285),

Gene: HortumSL17_88 Start: 48032, Stop: 47766, Start Num: 94

Candidate Starts for HortumSL17_88:

(Start: 83 @48050 has 27 MA's), (Start: 94 @48032 has 87 MA's), (104, 48011), (125, 47915),

Gene: Houdini22_74 Start: 45648, Stop: 45349, Start Num: 77

Candidate Starts for Houdini22_74:

(Start: 77 @45648 has 139 MA's), (Start: 101 @45606 has 3 MA's),

Gene: HuhtaEnerson15_68 Start: 43954, Stop: 43652, Start Num: 81

Candidate Starts for HuhtaEnerson15_68:

(Start: 81 @43954 has 18 MA's), (96, 43927), (98, 43921), (130, 43768),

Gene: Hutc2_80 Start: 45262, Stop: 44966, Start Num: 84

Candidate Starts for Hutc2_80:

(Start: 84 @45262 has 25 MA's), (91, 45253), (103, 45223), (107, 45214), (125, 45124),

Gene: ICleared_74 Start: 45715, Stop: 45416, Start Num: 77

Candidate Starts for ICleared_74:

(Start: 77 @45715 has 139 MA's), (Start: 101 @45673 has 3 MA's),

Gene: Iceman_73 Start: 45937, Stop: 45638, Start Num: 77

Candidate Starts for Iceman_73:

(Start: 77 @45937 has 139 MA's), (Start: 101 @45895 has 3 MA's),

Gene: Idleandcovert_79 Start: 46036, Stop: 45764, Start Num: 94

Candidate Starts for Idleandcovert_79:

(Start: 94 @46036 has 87 MA's),

Gene: Indra_87 Start: 45942, Stop: 45679, Start Num: 90

Candidate Starts for Indra_87:

(18, 46242), (26, 46185), (27, 46182), (31, 46137), (59, 46014), (Start: 90 @45942 has 23 MA's),

(Start: 101 @45930 has 3 MA's), (104, 45924), (115, 45885),

Gene: Insomnia_83 Start: 46556, Stop: 46257, Start Num: 84

Candidate Starts for Insomnia_83:

(Start: 84 @46556 has 25 MA's), (91, 46547), (103, 46517), (107, 46508), (125, 46418),

Gene: Iracema64_75 Start: 45911, Stop: 45612, Start Num: 77

Candidate Starts for Iracema64_75:

(Start: 77 @45911 has 139 MA's), (Start: 101 @45869 has 3 MA's),

Gene: IronMan_79 Start: 48100, Stop: 47804, Start Num: 73

Candidate Starts for IronMan_79:

(48, 48175), (Start: 73 @48100 has 46 MA's), (99, 48064),

Gene: Isca_75 Start: 45153, Stop: 44866, Start Num: 92

Candidate Starts for Isca_75:

(78, 45171), (Start: 92 @45153 has 7 MA's), (Start: 94 @45150 has 87 MA's), (125, 45030), (135, 44946),

Gene: Isiphiwo_80 Start: 45575, Stop: 45285, Start Num: 77

Candidate Starts for Isiphiwo_80:

(Start: 77 @45575 has 139 MA's), (Start: 101 @45533 has 3 MA's), (102, 45530), (Start: 105 @45524 has 3 MA's), (106, 45521), (110, 45512), (121, 45455),

Gene: Iwokeuplikedis_86 Start: 48070, Stop: 47795, Start Num: 73

Candidate Starts for Iwokeuplikedis_86:

(29, 48229), (30, 48193), (33, 48181), (45, 48121), (47, 48115), (Start: 73 @48070 has 46 MA's),

(Start: 105 @48031 has 3 MA's), (111, 48016),

Gene: JF2_75 Start: 43846, Stop: 43562, Start Num: 94

Candidate Starts for JF2_75:

(78, 43867), (Start: 92 @43849 has 7 MA's), (Start: 94 @43846 has 87 MA's), (125, 43726), (135, 43642),

Gene: JF4_75 Start: 43846, Stop: 43562, Start Num: 94

Candidate Starts for JF4_75:

(78, 43867), (Start: 92 @43849 has 7 MA's), (Start: 94 @43846 has 87 MA's), (125, 43726), (135, 43642),

Gene: JHC117_75 Start: 45625, Stop: 45362, Start Num: 94

Candidate Starts for JHC117_75:

(63, 45688), (70, 45670), (Start: 94 @45625 has 87 MA's), (102, 45604),

Gene: Jaan_80 Start: 48211, Stop: 47903, Start Num: 77

Candidate Starts for Jaan_80:

(Start: 77 @48211 has 139 MA's), (Start: 101 @48169 has 3 MA's), (115, 48109),

Gene: Jabith_83 Start: 46570, Stop: 46274, Start Num: 84

Candidate Starts for Jabith_83:

(Start: 84 @46570 has 25 MA's), (91, 46561), (103, 46531), (107, 46522), (125, 46432),

Gene: Jaykayelowell_72 Start: 45640, Stop: 45341, Start Num: 77

Candidate Starts for Jaykayelowell_72:

(Start: 77 @45640 has 139 MA's), (Start: 101 @45598 has 3 MA's),

Gene: Jeeves_84 Start: 46095, Stop: 45823, Start Num: 83

Candidate Starts for Jeeves_84:

(39, 46227), (43, 46215), (60, 46152), (62, 46146), (Start: 83 @46095 has 27 MA's), (104, 46065), (106, 46059), (109, 46056), (117, 46011),

Gene: JenCasNa_81 Start: 45630, Stop: 45367, Start Num: 94

Candidate Starts for JenCasNa_81:

(63, 45693), (70, 45675), (Start: 94 @45630 has 87 MA's), (102, 45609),

Gene: Jerm_85 Start: 48029, Stop: 47718, Start Num: 72

Candidate Starts for Jerm_85:

(Start: 72 @48029 has 16 MA's), (Start: 73 @48026 has 46 MA's), (109, 47963), (135, 47801),

Gene: JetBlade_76 Start: 45675, Stop: 45376, Start Num: 77

Candidate Starts for JetBlade_76:

(Start: 77 @45675 has 139 MA's), (Start: 101 @45633 has 3 MA's),

Gene: Jiawan_85 Start: 48025, Stop: 47744, Start Num: 83

Candidate Starts for Jiawan_85:

(Start: 83 @48025 has 27 MA's), (104, 47986), (125, 47890),

Gene: Jobu08_76 Start: 45454, Stop: 45191, Start Num: 94

Candidate Starts for Jobu08_76:

(63, 45517), (70, 45499), (Start: 94 @45454 has 87 MA's), (102, 45433),

Gene: JoongJeon_74 Start: 45641, Stop: 45342, Start Num: 77

Candidate Starts for JoongJeon_74:

(Start: 77 @45641 has 139 MA's), (Start: 101 @45599 has 3 MA's),

Gene: Jordennis_81 Start: 45745, Stop: 45497, Start Num: 101

Candidate Starts for Jordennis_81:

(34, 45931), (38, 45901), (55, 45835), (Start: 57 @45829 has 3 MA's), (Start: 77 @45787 has 139 MA's), (Start: 101 @45745 has 3 MA's), (102, 45742), (Start: 105 @45736 has 3 MA's), (106, 45733), (110, 45724), (121, 45667), (124, 45652),

Gene: Joselito_83 Start: 46590, Stop: 46294, Start Num: 84
Candidate Starts for Joselito_83:
(Start: 84 @46590 has 25 MA's), (91, 46581), (93, 46578), (103, 46551), (107, 46542), (125, 46452),

Gene: JoshKayV_85 Start: 48197, Stop: 47886, Start Num: 72
Candidate Starts for JoshKayV_85:
(Start: 72 @48197 has 16 MA's), (Start: 73 @48194 has 46 MA's), (Start: 100 @48152 has 1 MA's),
(102, 48146), (135, 47972),

Gene: Journey13_68 Start: 43259, Stop: 42879, Start Num: 44
Candidate Starts for Journey13_68:
(Start: 44 @43259 has 1 MA's), (46, 43250), (Start: 83 @43151 has 27 MA's), (97, 43133), (106,
43115), (114, 43079),

Gene: KFPoly_74 Start: 45641, Stop: 45342, Start Num: 77
Candidate Starts for KFPoly_74:
(Start: 77 @45641 has 139 MA's), (Start: 101 @45599 has 3 MA's),

Gene: Kachowdy_76 Start: 46006, Stop: 45722, Start Num: 94
Candidate Starts for Kachowdy_76:
(Start: 94 @46006 has 87 MA's), (135, 45802),

Gene: Kalpine_85 Start: 48190, Stop: 47882, Start Num: 75
Candidate Starts for Kalpine_85:
(Start: 75 @48190 has 6 MA's), (Start: 100 @48151 has 1 MA's), (Start: 101 @48148 has 3 MA's),

Gene: Kampy_74 Start: 45650, Stop: 45351, Start Num: 77
Candidate Starts for Kampy_74:
(Start: 77 @45650 has 139 MA's), (Start: 101 @45608 has 3 MA's),

Gene: Katalie136_74 Start: 45708, Stop: 45397, Start Num: 58
Candidate Starts for Katalie136_74:
(Start: 57 @45711 has 3 MA's), (Start: 58 @45708 has 13 MA's), (Start: 66 @45690 has 2 MA's), (67,
45687), (82, 45657), (108, 45645), (115, 45606), (121, 45573),

Gene: Kazan_84 Start: 45560, Stop: 45270, Start Num: 77
Candidate Starts for Kazan_84:
(34, 45704), (38, 45674), (55, 45608), (Start: 57 @45602 has 3 MA's), (Start: 77 @45560 has 139
MA's), (Start: 101 @45518 has 3 MA's), (102, 45515), (Start: 105 @45509 has 3 MA's), (106, 45506),
(110, 45497), (121, 45440), (124, 45425),

Gene: KekoraPapaka_72 Start: 45647, Stop: 45348, Start Num: 77
Candidate Starts for KekoraPapaka_72:
(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: Keziacharles14_84 Start: 48520, Stop: 48254, Start Num: 85
Candidate Starts for Keziacharles14_84:
(Start: 85 @48520 has 4 MA's), (95, 48505), (104, 48487), (Start: 105 @48484 has 3 MA's), (106,
48481),

Gene: Kimba_81 Start: 45893, Stop: 45597, Start Num: 84
Candidate Starts for Kimba_81:

(Start: 84 @45893 has 25 MA's), (91, 45884), (103, 45854), (107, 45845), (125, 45755),

Gene: Kimona_76 Start: 44739, Stop: 44437, Start Num: 77

Candidate Starts for Kimona_76:

(53, 44811), (Start: 77 @44739 has 139 MA's),

Gene: KingCyrus_82 Start: 48898, Stop: 48593, Start Num: 73

Candidate Starts for KingCyrus_82:

(Start: 73 @48898 has 46 MA's), (Start: 100 @48859 has 1 MA's), (102, 48853), (134, 48682), (135, 48679),

Gene: Kingmustik0402_75 Start: 45636, Stop: 45337, Start Num: 77

Candidate Starts for Kingmustik0402_75:

(Start: 77 @45636 has 139 MA's), (Start: 101 @45594 has 3 MA's),

Gene: Kipper29_83 Start: 45573, Stop: 45283, Start Num: 77

Candidate Starts for Kipper29_83:

(34, 45717), (38, 45687), (55, 45621), (Start: 57 @45615 has 3 MA's), (Start: 77 @45573 has 139 MA's), (Start: 101 @45531 has 3 MA's), (102, 45528), (Start: 105 @45522 has 3 MA's), (106, 45519), (110, 45510), (121, 45453),

Gene: KittenMittens_78 Start: 47540, Stop: 47253, Start Num: 81

Candidate Starts for KittenMittens_78:

(2, 48347), (3, 48326), (4, 48314), (14, 47900), (20, 47804), (Start: 81 @47540 has 18 MA's), (Start: 94 @47525 has 87 MA's), (102, 47507),

Gene: Klodlith_83 Start: 47367, Stop: 47134, Start Num: 105

Candidate Starts for Klodlith_83:

(Start: 83 @47403 has 27 MA's), (Start: 105 @47367 has 3 MA's),

Gene: Koan_72 Start: 45647, Stop: 45348, Start Num: 77

Candidate Starts for Koan_72:

(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: Koko_85 Start: 46331, Stop: 46068, Start Num: 90

Candidate Starts for Koko_85:

(18, 46631), (26, 46574), (27, 46571), (31, 46526), (59, 46403), (Start: 90 @46331 has 23 MA's), (Start: 101 @46319 has 3 MA's), (104, 46313), (115, 46274),

Gene: Koreni_74 Start: 45328, Stop: 45029, Start Num: 77

Candidate Starts for Koreni_74:

(Start: 77 @45328 has 139 MA's), (Start: 101 @45286 has 3 MA's),

Gene: Kratark_74 Start: 45681, Stop: 45382, Start Num: 77

Candidate Starts for Kratark_74:

(Start: 77 @45681 has 139 MA's), (Start: 101 @45639 has 3 MA's),

Gene: Kremtemulon_74 Start: 45795, Stop: 45481, Start Num: 58

Candidate Starts for Kremtemulon_74:

(Start: 57 @45798 has 3 MA's), (Start: 58 @45795 has 13 MA's), (Start: 66 @45777 has 2 MA's), (67, 45774), (108, 45732), (115, 45693),

Gene: Kristoff_81 Start: 48800, Stop: 48519, Start Num: 81

Candidate Starts for Kristoff_81:
(12, 49208), (16, 49112), (Start: 81 @48800 has 18 MA's),

Gene: Kyee_75 Start: 45642, Stop: 45343, Start Num: 77
Candidate Starts for Kyee_75:
(Start: 77 @45642 has 139 MA's), (Start: 101 @45600 has 3 MA's),

Gene: LBerry_81 Start: 45631, Stop: 45368, Start Num: 94
Candidate Starts for LBerry_81:
(63, 45694), (70, 45676), (Start: 94 @45631 has 87 MA's), (102, 45610),

Gene: LHTSCC_77 Start: 46087, Stop: 45785, Start Num: 77
Candidate Starts for LHTSCC_77:
(Start: 77 @46087 has 139 MA's), (Start: 101 @46045 has 3 MA's), (121, 45967),

Gene: LadyBird_87 Start: 48119, Stop: 47796, Start Num: 71
Candidate Starts for LadyBird_87:
(Start: 71 @48119 has 2 MA's), (Start: 84 @48098 has 25 MA's), (102, 48068), (109, 48053),

Gene: Lambert1_79 Start: 46002, Stop: 45721, Start Num: 92
Candidate Starts for Lambert1_79:
(78, 46020), (Start: 92 @46002 has 7 MA's), (Start: 94 @45999 has 87 MA's), (102, 45981),

Gene: Landor_80 Start: 48136, Stop: 47828, Start Num: 77
Candidate Starts for Landor_80:
(Start: 77 @48136 has 139 MA's), (Start: 101 @48094 has 3 MA's), (115, 48034),

Gene: LappelDuVide_75 Start: 45647, Stop: 45348, Start Num: 77
Candidate Starts for LappelDuVide_75:
(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: Larenn_81 Start: 47473, Stop: 47156, Start Num: 73
Candidate Starts for Larenn_81:
(5, 48031), (11, 47863), (21, 47719), (Start: 73 @47473 has 46 MA's), (Start: 75 @47470 has 6 MA's),
(Start: 100 @47431 has 1 MA's), (109, 47410), (134, 47245),

Gene: Lemur_75 Start: 45644, Stop: 45345, Start Num: 77
Candidate Starts for Lemur_75:
(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: LeoAvram_74 Start: 45714, Stop: 45379, Start Num: 56
Candidate Starts for LeoAvram_74:
(Start: 56 @45714 has 1 MA's), (Start: 84 @45663 has 25 MA's), (Start: 101 @45636 has 3 MA's),

Gene: Leviathan_85 Start: 48110, Stop: 47802, Start Num: 72
Candidate Starts for Leviathan_85:
(Start: 72 @48110 has 16 MA's), (Start: 73 @48107 has 46 MA's), (Start: 100 @48065 has 1 MA's),
(102, 48059), (109, 48044), (135, 47885),

Gene: LilTurb_84 Start: 47906, Stop: 47598, Start Num: 72
Candidate Starts for LilTurb_84:
(Start: 72 @47906 has 16 MA's), (Start: 73 @47903 has 46 MA's), (109, 47840), (135, 47681),

Gene: Lilbunny_83 Start: 45573, Stop: 45310, Start Num: 90
Candidate Starts for Lilbunny_83:
(18, 45873), (26, 45816), (27, 45813), (31, 45768), (59, 45645), (Start: 90 @45573 has 23 MA's),
(Start: 101 @45561 has 3 MA's), (104, 45555), (115, 45516),

Gene: Lilleskat_84 Start: 47987, Stop: 47724, Start Num: 94
Candidate Starts for Lilleskat_84:
(Start: 83 @48005 has 27 MA's), (Start: 94 @47987 has 87 MA's), (104, 47966), (125, 47870),

Gene: LionsBait_82 Start: 48447, Stop: 48130, Start Num: 54
Candidate Starts for LionsBait_82:
(54, 48447), (Start: 100 @48408 has 1 MA's), (Start: 101 @48405 has 3 MA's), (118, 48345),

Gene: LittleB_75 Start: 45648, Stop: 45349, Start Num: 77
Candidate Starts for LittleB_75:
(Start: 77 @45648 has 139 MA's), (Start: 101 @45606 has 3 MA's),

Gene: LittleCherry_69 Start: 43824, Stop: 43522, Start Num: 81
Candidate Starts for LittleCherry_69:
(Start: 81 @43824 has 18 MA's), (96, 43797), (98, 43791), (130, 43638),

Gene: LittleGuy_75 Start: 45532, Stop: 45233, Start Num: 77
Candidate Starts for LittleGuy_75:
(Start: 77 @45532 has 139 MA's), (Start: 101 @45490 has 3 MA's),

Gene: LochMonster_76 Start: 45884, Stop: 45585, Start Num: 77
Candidate Starts for LochMonster_76:
(Start: 77 @45884 has 139 MA's), (Start: 101 @45842 has 3 MA's),

Gene: Lokk_78 Start: 45975, Stop: 45661, Start Num: 73
Candidate Starts for Lokk_78:
(Start: 73 @45975 has 46 MA's), (Start: 90 @45948 has 23 MA's), (97, 45939), (123, 45852),

Gene: LoneWolf_87 Start: 48048, Stop: 47776, Start Num: 83
Candidate Starts for LoneWolf_87:
(Start: 83 @48048 has 27 MA's), (Start: 94 @48030 has 87 MA's), (104, 48009), (Start: 105 @48006 has 3 MA's),

Gene: Lorenzo_75 Start: 45645, Stop: 45346, Start Num: 77
Candidate Starts for Lorenzo_75:
(Start: 77 @45645 has 139 MA's),

Gene: Loser_86 Start: 48364, Stop: 48065, Start Num: 75
Candidate Starts for Loser_86:
(Start: 75 @48364 has 6 MA's), (82, 48352), (Start: 84 @48349 has 25 MA's), (86, 48346), (Start: 100 @48325 has 1 MA's), (109, 48304),

Gene: Luchador_82 Start: 47356, Stop: 47087, Start Num: 83
Candidate Starts for Luchador_82:
(39, 47488), (43, 47476), (60, 47413), (Start: 83 @47356 has 27 MA's), (104, 47326), (106, 47320),
(117, 47272),

Gene: Lucivia_85 Start: 46869, Stop: 46573, Start Num: 84

Candidate Starts for Lucivia_85:
(Start: 84 @46869 has 25 MA's), (91, 46860), (93, 46857), (103, 46830), (107, 46821), (125, 46731),

Gene: Lucyedi_82 Start: 47034, Stop: 46771, Start Num: 83
Candidate Starts for Lucyedi_82:
(8, 47598), (23, 47280), (Start: 83 @47034 has 27 MA's), (106, 46998), (109, 46995),

Gene: LugYA_83 Start: 45631, Stop: 45368, Start Num: 94
Candidate Starts for LugYA_83:
(63, 45694), (70, 45676), (Start: 94 @45631 has 87 MA's), (102, 45610),

Gene: Lunsford_75 Start: 45640, Stop: 45341, Start Num: 77
Candidate Starts for Lunsford_75:
(Start: 77 @45640 has 139 MA's), (Start: 101 @45598 has 3 MA's),

Gene: MA5_77 Start: 45054, Stop: 44770, Start Num: 94
Candidate Starts for MA5_77:
(Start: 94 @45054 has 87 MA's), (135, 44850),

Gene: MK4_72 Start: 43576, Stop: 43289, Start Num: 92
Candidate Starts for MK4_72:
(78, 43594), (Start: 92 @43576 has 7 MA's), (Start: 94 @43573 has 87 MA's), (125, 43453), (135, 43369),

Gene: MaCh_84 Start: 46833, Stop: 46537, Start Num: 84
Candidate Starts for MaCh_84:
(Start: 84 @46833 has 25 MA's), (91, 46824), (93, 46821), (103, 46794), (107, 46785), (125, 46695),

Gene: Mabel_84 Start: 46834, Stop: 46538, Start Num: 84
Candidate Starts for Mabel_84:
(Start: 84 @46834 has 25 MA's), (91, 46825), (93, 46822), (103, 46795), (107, 46786), (125, 46696),

Gene: MadMarie_78 Start: 45628, Stop: 45365, Start Num: 94
Candidate Starts for MadMarie_78:
(63, 45691), (70, 45673), (Start: 94 @45628 has 87 MA's), (102, 45607),

Gene: Malec_82 Start: 48043, Stop: 47726, Start Num: 73
Candidate Starts for Malec_82:
(Start: 73 @48043 has 46 MA's), (Start: 75 @48040 has 6 MA's), (Start: 100 @48001 has 1 MA's),
(109, 47980), (134, 47815),

Gene: Maminiaina_86 Start: 47971, Stop: 47693, Start Num: 83
Candidate Starts for Maminiaina_86:
(Start: 83 @47971 has 27 MA's), (104, 47932),

Gene: MarQuardt_80 Start: 45629, Stop: 45366, Start Num: 94
Candidate Starts for MarQuardt_80:
(63, 45692), (70, 45674), (Start: 94 @45629 has 87 MA's), (102, 45608),

Gene: Marchesa_78 Start: 45958, Stop: 45674, Start Num: 94
Candidate Starts for Marchesa_78:
(Start: 94 @45958 has 87 MA's), (135, 45754),

Gene: Margo_79 Start: 46027, Stop: 45746, Start Num: 92
Candidate Starts for Margo_79:
(78, 46045), (Start: 92 @46027 has 7 MA's), (Start: 94 @46024 has 87 MA's),

Gene: Marie_78 Start: 45630, Stop: 45367, Start Num: 94
Candidate Starts for Marie_78:
(63, 45693), (70, 45675), (Start: 94 @45630 has 87 MA's), (102, 45609),

Gene: Maverick_74 Start: 45644, Stop: 45345, Start Num: 77
Candidate Starts for Maverick_74:
(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: Maxo_77 Start: 45650, Stop: 45351, Start Num: 77
Candidate Starts for Maxo_77:
(Start: 77 @45650 has 139 MA's), (Start: 101 @45608 has 3 MA's),

Gene: Mayonnaise_72 Start: 45644, Stop: 45345, Start Num: 77
Candidate Starts for Mayonnaise_72:
(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: Mazhar510_75 Start: 45645, Stop: 45346, Start Num: 77
Candidate Starts for Mazhar510_75:
(Start: 77 @45645 has 139 MA's), (Start: 101 @45603 has 3 MA's),

Gene: McFly_83 Start: 45909, Stop: 45619, Start Num: 77
Candidate Starts for McFly_83:
(34, 46053), (38, 46023), (55, 45957), (Start: 57 @45951 has 3 MA's), (Start: 77 @45909 has 139 MA's), (Start: 101 @45867 has 3 MA's), (102, 45864), (Start: 105 @45858 has 3 MA's), (106, 45855), (110, 45846), (121, 45789),

Gene: Medusa_74 Start: 45660, Stop: 45361, Start Num: 77
Candidate Starts for Medusa_74:
(Start: 77 @45660 has 139 MA's), (Start: 101 @45618 has 3 MA's),

Gene: MeeZee_74 Start: 45641, Stop: 45342, Start Num: 77
Candidate Starts for MeeZee_74:
(Start: 77 @45641 has 139 MA's), (Start: 101 @45599 has 3 MA's),

Gene: MegTheThird_83 Start: 47371, Stop: 47141, Start Num: 105
Candidate Starts for MegTheThird_83:
(Start: 83 @47410 has 27 MA's), (104, 47374), (Start: 105 @47371 has 3 MA's), (126, 47272),

Gene: Melvin_77 Start: 45642, Stop: 45343, Start Num: 77
Candidate Starts for Melvin_77:
(Start: 77 @45642 has 139 MA's), (Start: 101 @45600 has 3 MA's),

Gene: Methuselah_73 Start: 45651, Stop: 45388, Start Num: 94
Candidate Starts for Methuselah_73:
(63, 45714), (70, 45696), (Start: 94 @45651 has 87 MA's), (102, 45630),

Gene: MiculUcigas_83 Start: 47170, Stop: 46859, Start Num: 73
Candidate Starts for MiculUcigas_83:

(Start: 73 @47170 has 46 MA's), (Start: 80 @47158 has 1 MA's), (Start: 84 @47152 has 25 MA's),
(Start: 100 @47128 has 1 MA's), (102, 47122), (109, 47107),

Gene: Midas2_67 Start: 44122, Stop: 43820, Start Num: 81

Candidate Starts for Midas2_67:

(Start: 81 @44122 has 18 MA's), (Start: 105 @44071 has 3 MA's), (106, 44068), (127, 43960), (130, 43936),

Gene: Miko_78 Start: 46737, Stop: 46423, Start Num: 73

Candidate Starts for Miko_78:

(Start: 73 @46737 has 46 MA's), (Start: 90 @46710 has 23 MA's), (97, 46701),

Gene: Millski_74 Start: 45648, Stop: 45349, Start Num: 77

Candidate Starts for Millski_74:

(Start: 77 @45648 has 139 MA's), (Start: 101 @45606 has 3 MA's),

Gene: Minispark_84 Start: 47433, Stop: 47182, Start Num: 94

Candidate Starts for Minispark_84:

(Start: 83 @47451 has 27 MA's), (Start: 94 @47433 has 87 MA's), (104, 47412),

Gene: Miramae_74 Start: 45242, Stop: 44946, Start Num: 76

Candidate Starts for Miramae_74:

(Start: 76 @45242 has 7 MA's), (Start: 100 @45221 has 1 MA's), (108, 45203), (120, 45134),

Gene: MissWhite_76 Start: 44037, Stop: 43771, Start Num: 83

Candidate Starts for MissWhite_76:

(7, 44595), (23, 44283), (Start: 83 @44037 has 27 MA's), (97, 44019), (106, 44001), (114, 43965),
(130, 43869),

Gene: MoneyMay_80 Start: 45630, Stop: 45367, Start Num: 94

Candidate Starts for MoneyMay_80:

(63, 45693), (70, 45675), (Start: 94 @45630 has 87 MA's), (102, 45609),

Gene: Montavir_75 Start: 45627, Stop: 45364, Start Num: 94

Candidate Starts for Montavir_75:

(63, 45690), (70, 45672), (Start: 94 @45627 has 87 MA's), (102, 45606),

Gene: Morpher26_74 Start: 45732, Stop: 45418, Start Num: 57

Candidate Starts for Morpher26_74:

(Start: 57 @45732 has 3 MA's), (Start: 58 @45729 has 13 MA's), (Start: 66 @45711 has 2 MA's), (67, 45708), (82, 45678), (108, 45666), (115, 45627), (121, 45594),

Gene: Morrow_77 Start: 45687, Stop: 45388, Start Num: 77

Candidate Starts for Morrow_77:

(Start: 77 @45687 has 139 MA's), (Start: 101 @45645 has 3 MA's),

Gene: Mulciber_82 Start: 46375, Stop: 46079, Start Num: 84

Candidate Starts for Mulciber_82:

(Start: 84 @46375 has 25 MA's), (91, 46366), (103, 46336), (107, 46327), (125, 46237),

Gene: Munch_84 Start: 46838, Stop: 46542, Start Num: 84

Candidate Starts for Munch_84:

(Start: 84 @46838 has 25 MA's), (91, 46829), (93, 46826), (103, 46799), (107, 46790), (125, 46700),

Gene: Mundrea_74 Start: 45707, Stop: 45417, Start Num: 76

Candidate Starts for Mundrea_74:

(Start: 76 @45707 has 7 MA's), (Start: 100 @45686 has 1 MA's), (108, 45668), (111, 45659), (121, 45596),

Gene: MyraDee_79 Start: 44293, Stop: 44003, Start Num: 89

Candidate Starts for MyraDee_79:

(Start: 89 @44293 has 1 MA's), (Start: 105 @44254 has 3 MA's),

Gene: Myxus_87 Start: 48032, Stop: 47766, Start Num: 94

Candidate Starts for Myxus_87:

(Start: 83 @48050 has 27 MA's), (Start: 94 @48032 has 87 MA's), (104, 48011), (125, 47915),

Gene: NaSiaTalie_84 Start: 47457, Stop: 47146, Start Num: 73

Candidate Starts for NaSiaTalie_84:

(Start: 73 @47457 has 46 MA's), (Start: 80 @47445 has 1 MA's), (Start: 100 @47415 has 1 MA's), (102, 47409), (109, 47394),

Gene: Naca_73 Start: 45403, Stop: 45119, Start Num: 94

Candidate Starts for Naca_73:

(Start: 87 @45415 has 4 MA's), (Start: 94 @45403 has 87 MA's), (104, 45376), (125, 45271), (128, 45247),

Gene: Nebs_76 Start: 45687, Stop: 45388, Start Num: 77

Candidate Starts for Nebs_76:

(Start: 77 @45687 has 139 MA's), (Start: 101 @45645 has 3 MA's),

Gene: Neeharika16_82 Start: 45659, Stop: 45369, Start Num: 77

Candidate Starts for Neeharika16_82:

(34, 45803), (38, 45773), (55, 45707), (Start: 57 @45701 has 3 MA's), (Start: 77 @45659 has 139 MA's), (Start: 101 @45617 has 3 MA's), (102, 45614), (Start: 105 @45608 has 3 MA's), (106, 45605), (110, 45596), (121, 45539),

Gene: Nemo27_74 Start: 45643, Stop: 45344, Start Num: 77

Candidate Starts for Nemo27_74:

(Start: 77 @45643 has 139 MA's), (Start: 101 @45601 has 3 MA's),

Gene: Newrala_82 Start: 45995, Stop: 45705, Start Num: 77

Candidate Starts for Newrala_82:

(34, 46139), (38, 46109), (55, 46043), (Start: 57 @46037 has 3 MA's), (Start: 77 @45995 has 139 MA's), (Start: 101 @45953 has 3 MA's), (102, 45950), (Start: 105 @45944 has 3 MA's), (106, 45941), (110, 45932), (121, 45875),

Gene: NicoleTera_81 Start: 47391, Stop: 47083, Start Num: 73

Candidate Starts for NicoleTera_81:

(Start: 73 @47391 has 46 MA's), (Start: 100 @47352 has 1 MA's), (109, 47331),

Gene: Noella_80 Start: 46000, Stop: 45722, Start Num: 94

Candidate Starts for Noella_80:

(78, 46021), (Start: 92 @46003 has 7 MA's), (Start: 94 @46000 has 87 MA's),

Gene: Noelle_75 Start: 46056, Stop: 45739, Start Num: 58

Candidate Starts for Noelle_75:

(Start: 57 @46059 has 3 MA's), (Start: 58 @46056 has 13 MA's), (Start: 66 @46038 has 2 MA's), (67, 46035), (108, 45990), (115, 45951), (121, 45918),

Gene: Norbert_75 Start: 46000, Stop: 45719, Start Num: 92

Candidate Starts for Norbert_75:

(78, 46018), (Start: 92 @46000 has 7 MA's), (Start: 94 @45997 has 87 MA's),

Gene: NorthStar_72 Start: 45647, Stop: 45348, Start Num: 77

Candidate Starts for NorthStar_72:

(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: NotAPhaseMom_74 Start: 45648, Stop: 45349, Start Num: 77

Candidate Starts for NotAPhaseMom_74:

(Start: 77 @45648 has 139 MA's), (Start: 101 @45606 has 3 MA's),

Gene: NothingSpecial_78 Start: 47348, Stop: 47028, Start Num: 73

Candidate Starts for NothingSpecial_78:

(1, 48203), (6, 47891), (21, 47591), (Start: 73 @47348 has 46 MA's), (82, 47333), (97, 47315), (102, 47300), (108, 47288), (135, 47120),

Gene: Nyxis_74 Start: 45526, Stop: 45227, Start Num: 77

Candidate Starts for Nyxis_74:

(Start: 77 @45526 has 139 MA's), (Start: 101 @45484 has 3 MA's),

Gene: OKCentral2016_82 Start: 47617, Stop: 47324, Start Num: 81

Candidate Starts for OKCentral2016_82:

(14, 47977), (20, 47881), (Start: 81 @47617 has 18 MA's), (110, 47563),

Gene: OKaNui_74 Start: 45697, Stop: 45398, Start Num: 77

Candidate Starts for OKaNui_74:

(Start: 77 @45697 has 139 MA's), (Start: 101 @45655 has 3 MA's),

Gene: Obama12_76 Start: 46071, Stop: 45769, Start Num: 77

Candidate Starts for Obama12_76:

(Start: 77 @46071 has 139 MA's), (Start: 101 @46029 has 3 MA's), (121, 45951),

Gene: Ohfah_76 Start: 45687, Stop: 45388, Start Num: 77

Candidate Starts for Ohfah_76:

(Start: 77 @45687 has 139 MA's), (Start: 101 @45645 has 3 MA's),

Gene: Ollie_80 Start: 45498, Stop: 45235, Start Num: 94

Candidate Starts for Ollie_80:

(63, 45561), (70, 45543), (Start: 94 @45498 has 87 MA's), (102, 45477),

Gene: Onglai_85 Start: 46179, Stop: 45916, Start Num: 94

Candidate Starts for Onglai_85:

(Start: 83 @46197 has 27 MA's), (Start: 94 @46179 has 87 MA's), (104, 46158), (125, 46062),

Gene: Orange_84 Start: 46388, Stop: 46092, Start Num: 84

Candidate Starts for Orange_84:

(Start: 84 @46388 has 25 MA's), (91, 46379), (93, 46376), (103, 46349), (107, 46340), (125, 46250),

Gene: P28Green_80 Start: 45633, Stop: 45370, Start Num: 94
Candidate Starts for P28Green_80:
(63, 45696), (70, 45678), (Start: 94 @45633 has 87 MA's), (102, 45612),

Gene: PP_76 Start: 49639, Stop: 49325, Start Num: 61
Candidate Starts for PP_76:
(51, 49672), (Start: 61 @49639 has 1 MA's), (64, 49633), (Start: 77 @49600 has 139 MA's), (96, 49576), (102, 49558), (108, 49546),

Gene: PainterBoy_82 Start: 46744, Stop: 46481, Start Num: 83
Candidate Starts for PainterBoy_82:
(8, 47308), (23, 46990), (Start: 83 @46744 has 27 MA's), (106, 46708), (109, 46705),

Gene: Palestino_74 Start: 45644, Stop: 45345, Start Num: 77
Candidate Starts for Palestino_74:
(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: Panamaxus_76 Start: 45999, Stop: 45721, Start Num: 94
Candidate Starts for Panamaxus_76:
(78, 46020), (Start: 92 @46002 has 7 MA's), (Start: 94 @45999 has 87 MA's), (102, 45981),

Gene: PeaceMeal1_80 Start: 47544, Stop: 47254, Start Num: 81
Candidate Starts for PeaceMeal1_80:
(2, 48351), (3, 48330), (4, 48318), (14, 47904), (20, 47808), (Start: 81 @47544 has 18 MA's), (Start: 94 @47529 has 87 MA's), (102, 47511),

Gene: Peaches_73 Start: 45646, Stop: 45347, Start Num: 77
Candidate Starts for Peaches_73:
(Start: 77 @45646 has 139 MA's), (Start: 101 @45604 has 3 MA's),

Gene: Penny1_80 Start: 45631, Stop: 45368, Start Num: 94
Candidate Starts for Penny1_80:
(63, 45694), (70, 45676), (Start: 94 @45631 has 87 MA's), (102, 45610),

Gene: Perplexer_74 Start: 45711, Stop: 45394, Start Num: 58
Candidate Starts for Perplexer_74:
(Start: 57 @45714 has 3 MA's), (Start: 58 @45711 has 13 MA's), (65, 45696), (82, 45660), (108, 45645), (115, 45606), (121, 45573),

Gene: PeterPeter_75 Start: 45641, Stop: 45342, Start Num: 77
Candidate Starts for PeterPeter_75:
(Start: 77 @45641 has 139 MA's), (Start: 101 @45599 has 3 MA's),

Gene: Petersenfast_78 Start: 45269, Stop: 44973, Start Num: 84
Candidate Starts for Petersenfast_78:
(Start: 84 @45269 has 25 MA's), (91, 45260), (93, 45257), (103, 45230), (107, 45221), (125, 45131),

Gene: PetiteSangsue_74 Start: 45714, Stop: 45397, Start Num: 58
Candidate Starts for PetiteSangsue_74:
(Start: 57 @45717 has 3 MA's), (Start: 58 @45714 has 13 MA's), (65, 45699), (82, 45663), (108, 45648), (115, 45609), (121, 45576),

Gene: PetterN_78 Start: 45190, Stop: 44906, Start Num: 94

Candidate Starts for PetterN_78:
(Start: 87 @45202 has 4 MA's), (Start: 94 @45190 has 87 MA's), (104, 45163), (125, 45058), (128, 45034),

Gene: Phacado_75 Start: 45643, Stop: 45344, Start Num: 77
Candidate Starts for Phacado_75:
(Start: 77 @45643 has 139 MA's), (Start: 101 @45601 has 3 MA's),

Gene: Phaded_76 Start: 48095, Stop: 47787, Start Num: 77
Candidate Starts for Phaded_76:
(Start: 77 @48095 has 139 MA's), (Start: 101 @48053 has 3 MA's), (115, 47993),

Gene: Phaeder_87 Start: 47907, Stop: 47641, Start Num: 94
Candidate Starts for Phaeder_87:
(Start: 83 @47925 has 27 MA's), (Start: 94 @47907 has 87 MA's), (104, 47886), (125, 47790),

Gene: Phantastic_80 Start: 45465, Stop: 45187, Start Num: 94
Candidate Starts for Phantastic_80:
(Start: 94 @45465 has 87 MA's),

Gene: Pharaoh_77 Start: 47219, Stop: 46926, Start Num: 83
Candidate Starts for Pharaoh_77:
(Start: 83 @47219 has 27 MA's), (98, 47195), (99, 47192), (110, 47168), (116, 47135),

Gene: Phelipe_76 Start: 45687, Stop: 45388, Start Num: 77
Candidate Starts for Phelipe_76:
(Start: 77 @45687 has 139 MA's), (Start: 101 @45645 has 3 MA's),

Gene: Phighter1804_75 Start: 45708, Stop: 45409, Start Num: 77
Candidate Starts for Phighter1804_75:
(Start: 77 @45708 has 139 MA's), (Start: 101 @45666 has 3 MA's),

Gene: Phoebe_81 Start: 45623, Stop: 45360, Start Num: 94
Candidate Starts for Phoebe_81:
(63, 45686), (70, 45668), (Start: 94 @45623 has 87 MA's), (102, 45602),

Gene: Phonnegut_87 Start: 47920, Stop: 47657, Start Num: 94
Candidate Starts for Phonnegut_87:
(Start: 83 @47938 has 27 MA's), (Start: 94 @47920 has 87 MA's), (104, 47899), (125, 47803),

Gene: Phontbonne_75 Start: 45542, Stop: 45243, Start Num: 77
Candidate Starts for Phontbonne_75:
(Start: 77 @45542 has 139 MA's), (Start: 101 @45500 has 3 MA's),

Gene: Phoxy_80 Start: 45652, Stop: 45389, Start Num: 94
Candidate Starts for Phoxy_80:
(63, 45715), (70, 45697), (Start: 94 @45652 has 87 MA's), (102, 45631),

Gene: Pioneer_87 Start: 47920, Stop: 47657, Start Num: 94
Candidate Starts for Pioneer_87:
(Start: 83 @47938 has 27 MA's), (Start: 94 @47920 has 87 MA's), (104, 47899), (125, 47803),

Gene: Pipcraft_71 Start: 45648, Stop: 45349, Start Num: 77

Candidate Starts for Pipcraft_71:
(Start: 77 @45648 has 139 MA's), (Start: 101 @45606 has 3 MA's),

Gene: Piro94_82 Start: 47405, Stop: 47094, Start Num: 73
Candidate Starts for Piro94_82:
(Start: 73 @47405 has 46 MA's), (Start: 80 @47393 has 1 MA's), (102, 47357), (109, 47342),

Gene: Pistachio_79 Start: 45583, Stop: 45311, Start Num: 94
Candidate Starts for Pistachio_79:
(Start: 94 @45583 has 87 MA's),

Gene: Pmask_82 Start: 46196, Stop: 45906, Start Num: 77
Candidate Starts for Pmask_82:
(34, 46340), (38, 46310), (55, 46244), (Start: 57 @46238 has 3 MA's), (Start: 77 @46196 has 139 MA's), (Start: 101 @46154 has 3 MA's), (102, 46151), (Start: 105 @46145 has 3 MA's), (106, 46142), (110, 46133), (121, 46076),

Gene: Pocahontas_78 Start: 45995, Stop: 45717, Start Num: 94
Candidate Starts for Pocahontas_78:
(78, 46016), (Start: 92 @45998 has 7 MA's), (Start: 94 @45995 has 87 MA's), (102, 45977),

Gene: Polymorphads_76 Start: 45668, Stop: 45369, Start Num: 77
Candidate Starts for Polymorphads_76:
(Start: 77 @45668 has 139 MA's),

Gene: Poompha_80 Start: 47542, Stop: 47252, Start Num: 81
Candidate Starts for Poompha_80:
(19, 47818), (Start: 81 @47542 has 18 MA's), (Start: 94 @47527 has 87 MA's), (102, 47509),

Gene: Popcicle_79 Start: 45995, Stop: 45717, Start Num: 94
Candidate Starts for Popcicle_79:
(78, 46016), (Start: 92 @45998 has 7 MA's), (Start: 94 @45995 has 87 MA's), (102, 45977),

Gene: PotatoSplit_81 Start: 45631, Stop: 45368, Start Num: 94
Candidate Starts for PotatoSplit_81:
(63, 45694), (70, 45676), (Start: 94 @45631 has 87 MA's), (102, 45610),

Gene: Power_83 Start: 47968, Stop: 47660, Start Num: 73
Candidate Starts for Power_83:
(Start: 73 @47968 has 46 MA's), (102, 47920), (109, 47905), (118, 47863), (135, 47746),

Gene: Priamo_85 Start: 45857, Stop: 45609, Start Num: 101
Candidate Starts for Priamo_85:
(Start: 77 @45899 has 139 MA's), (Start: 101 @45857 has 3 MA's), (102, 45854), (Start: 105 @45848 has 3 MA's), (106, 45845), (110, 45836), (121, 45779),

Gene: Priya_85 Start: 47691, Stop: 47428, Start Num: 94
Candidate Starts for Priya_85:
(Start: 83 @47709 has 27 MA's), (Start: 94 @47691 has 87 MA's), (104, 47670), (125, 47574),

Gene: Prudy_78 Start: 47737, Stop: 47444, Start Num: 83
Candidate Starts for Prudy_78:
(Start: 83 @47737 has 27 MA's), (97, 47716), (98, 47713), (99, 47710), (106, 47692),

Gene: Pukovnik_77 Start: 47566, Stop: 47252, Start Num: 77
Candidate Starts for Pukovnik_77:
(Start: 77 @47566 has 139 MA's), (Start: 101 @47524 has 3 MA's), (121, 47446), (132, 47344),

Gene: Pumbaa_75 Start: 45592, Stop: 45293, Start Num: 77
Candidate Starts for Pumbaa_75:
(Start: 77 @45592 has 139 MA's), (Start: 101 @45550 has 3 MA's),

Gene: Qobbit_85 Start: 47653, Stop: 47390, Start Num: 94
Candidate Starts for Qobbit_85:
(Start: 83 @47671 has 27 MA's), (Start: 94 @47653 has 87 MA's), (104, 47632), (125, 47536),

Gene: QueenB2_80 Start: 47058, Stop: 46753, Start Num: 73
Candidate Starts for QueenB2_80:
(Start: 73 @47058 has 46 MA's), (102, 47013), (135, 46839),

Gene: QueenBeesly_83 Start: 47765, Stop: 47457, Start Num: 73
Candidate Starts for QueenBeesly_83:
(Start: 73 @47765 has 46 MA's), (102, 47717), (109, 47702), (118, 47660), (135, 47543),

Gene: QuinnKiro_78 Start: 46001, Stop: 45720, Start Num: 92
Candidate Starts for QuinnKiro_78:
(78, 46019), (Start: 92 @46001 has 7 MA's), (Start: 94 @45998 has 87 MA's), (102, 45980),

Gene: Rachaly_80 Start: 46883, Stop: 46569, Start Num: 73
Candidate Starts for Rachaly_80:
(Start: 73 @46883 has 46 MA's), (Start: 90 @46856 has 23 MA's), (97, 46847), (123, 46760),

Gene: Rahalelujah_86 Start: 47466, Stop: 47197, Start Num: 83
Candidate Starts for Rahalelujah_86:
(Start: 83 @47466 has 27 MA's), (Start: 94 @47448 has 87 MA's), (104, 47427),

Gene: Rebeuca_84 Start: 48801, Stop: 48520, Start Num: 81
Candidate Starts for Rebeuca_84:
(12, 49209), (16, 49113), (69, 48825), (Start: 81 @48801 has 18 MA's),

Gene: RedRock_83 Start: 48017, Stop: 47718, Start Num: 75
Candidate Starts for RedRock_83:
(Start: 75 @48017 has 6 MA's), (82, 48005), (Start: 84 @48002 has 25 MA's), (86, 47999), (Start: 100 @47978 has 1 MA's), (109, 47957),

Gene: Refuge_80 Start: 47830, Stop: 47555, Start Num: 83
Candidate Starts for Refuge_80:
(Start: 83 @47830 has 27 MA's), (97, 47809), (106, 47785), (112, 47773),

Gene: Relief_74 Start: 45644, Stop: 45345, Start Num: 77
Candidate Starts for Relief_74:
(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: ResDef_77 Start: 46001, Stop: 45723, Start Num: 94
Candidate Starts for ResDef_77:
(78, 46022), (Start: 92 @46004 has 7 MA's), (Start: 94 @46001 has 87 MA's), (102, 45983),

Gene: Retro23_83 Start: 47489, Stop: 47184, Start Num: 73
Candidate Starts for Retro23_83:
(Start: 73 @47489 has 46 MA's), (102, 47444), (109, 47429), (118, 47387), (135, 47270),

Gene: RhynO_71 Start: 44245, Stop: 43955, Start Num: 81
Candidate Starts for RhynO_71:
(Start: 81 @44245 has 18 MA's),

Gene: Rifter_84 Start: 45121, Stop: 44810, Start Num: 90
Candidate Starts for Rifter_84:
(10, 45574), (25, 45367), (27, 45361), (59, 45193), (Start: 90 @45121 has 23 MA's), (Start: 100 @45103 has 1 MA's), (Start: 101 @45100 has 3 MA's), (102, 45097), (104, 45094), (108, 45085), (110, 45079), (111, 45076), (115, 45055), (122, 45019),

Gene: RockieBear_72 Start: 45646, Stop: 45347, Start Num: 77
Candidate Starts for RockieBear_72:
(Start: 77 @45646 has 139 MA's), (Start: 101 @45604 has 3 MA's),

Gene: Roimos_77 Start: 45892, Stop: 45608, Start Num: 94
Candidate Starts for Roimos_77:
(Start: 94 @45892 has 87 MA's), (135, 45688),

Gene: Roksolana_84 Start: 45837, Stop: 45574, Start Num: 90
Candidate Starts for Roksolana_84:
(18, 46137), (26, 46080), (27, 46077), (31, 46032), (59, 45909), (Start: 90 @45837 has 23 MA's), (Start: 101 @45825 has 3 MA's), (104, 45819), (115, 45780),

Gene: Romney_74 Start: 45644, Stop: 45345, Start Num: 77
Candidate Starts for Romney_74:
(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: Roosevelt_73 Start: 45649, Stop: 45350, Start Num: 77
Candidate Starts for Roosevelt_73:
(Start: 77 @45649 has 139 MA's), (Start: 101 @45607 has 3 MA's),

Gene: Rosa24_71 Start: 45675, Stop: 45376, Start Num: 77
Candidate Starts for Rosa24_71:
(Start: 77 @45675 has 139 MA's), (Start: 101 @45633 has 3 MA's),

Gene: Rowdy_86 Start: 48631, Stop: 48341, Start Num: 81
Candidate Starts for Rowdy_86:
(Start: 81 @48631 has 18 MA's),

Gene: Ruin_75 Start: 45640, Stop: 45341, Start Num: 77
Candidate Starts for Ruin_75:
(Start: 77 @45640 has 139 MA's), (Start: 101 @45598 has 3 MA's),

Gene: Rummer_79 Start: 45655, Stop: 45392, Start Num: 94
Candidate Starts for Rummer_79:
(63, 45718), (70, 45700), (Start: 94 @45655 has 87 MA's), (102, 45634),

Gene: RyeScarlet_88 Start: 47915, Stop: 47631, Start Num: 83

Candidate Starts for RyeScarlet_88:
(Start: 83 @47915 has 27 MA's), (104, 47876), (125, 47780),

Gene: Sabertooth_75 Start: 45652, Stop: 45353, Start Num: 77
Candidate Starts for Sabertooth_75:
(Start: 77 @45652 has 139 MA's), (Start: 101 @45610 has 3 MA's),

Gene: Sabinator_78 Start: 45629, Stop: 45366, Start Num: 94
Candidate Starts for Sabinator_78:
(63, 45692), (70, 45674), (Start: 94 @45629 has 87 MA's), (102, 45608),

Gene: Sachima_83 Start: 47953, Stop: 47669, Start Num: 83
Candidate Starts for Sachima_83:
(Start: 83 @47953 has 27 MA's), (104, 47914), (125, 47818),

Gene: Salz_79 Start: 45184, Stop: 44888, Start Num: 84
Candidate Starts for Salz_79:
(Start: 84 @45184 has 25 MA's), (91, 45175), (103, 45145), (107, 45136), (125, 45046),

Gene: Saskia_81 Start: 45732, Stop: 45436, Start Num: 84
Candidate Starts for Saskia_81:
(Start: 84 @45732 has 25 MA's), (91, 45723), (103, 45693), (107, 45684), (125, 45594),

Gene: SaturnRing_79 Start: 46036, Stop: 45764, Start Num: 94
Candidate Starts for SaturnRing_79:
(Start: 94 @46036 has 87 MA's),

Gene: Scamp_75 Start: 45649, Stop: 45350, Start Num: 77
Candidate Starts for Scamp_75:
(Start: 77 @45649 has 139 MA's), (Start: 101 @45607 has 3 MA's),

Gene: Scherzo_85 Start: 47952, Stop: 47689, Start Num: 94
Candidate Starts for Scherzo_85:
(Start: 83 @47970 has 27 MA's), (Start: 94 @47952 has 87 MA's), (104, 47931), (125, 47835),

Gene: Scout_78 Start: 45217, Stop: 44933, Start Num: 94
Candidate Starts for Scout_78:
(Start: 94 @45217 has 87 MA's), (135, 45013),

Gene: SemperFi_83 Start: 47653, Stop: 47345, Start Num: 73
Candidate Starts for SemperFi_83:
(Start: 73 @47653 has 46 MA's), (102, 47605), (109, 47590), (118, 47548), (135, 47431),

Gene: SenorClean_76 Start: 45647, Stop: 45348, Start Num: 77
Candidate Starts for SenorClean_76:
(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: Severus_81 Start: 47539, Stop: 47252, Start Num: 81
Candidate Starts for Severus_81:
(2, 48346), (3, 48325), (4, 48313), (14, 47899), (20, 47803), (Start: 81 @47539 has 18 MA's), (Start: 94 @47524 has 87 MA's), (102, 47506),

Gene: Shaka_73 Start: 45645, Stop: 45346, Start Num: 77

Candidate Starts for Shaka_73:

(Start: 77 @45645 has 139 MA's), (Start: 101 @45603 has 3 MA's),

Gene: Sham4_80 Start: 45270, Stop: 44971, Start Num: 84

Candidate Starts for Sham4_80:

(Start: 84 @45270 has 25 MA's), (91, 45261), (103, 45231), (107, 45222), (125, 45132),

Gene: Shapes_86 Start: 48631, Stop: 48341, Start Num: 81

Candidate Starts for Shapes_86:

(Start: 81 @48631 has 18 MA's),

Gene: Sheen_75 Start: 48554, Stop: 48285, Start Num: 94

Candidate Starts for Sheen_75:

(32, 48746), (36, 48728), (48, 48674), (49, 48671), (Start: 94 @48554 has 87 MA's), (98, 48542), (112, 48506), (113, 48500), (119, 48464), (125, 48425), (128, 48401),

Gene: SheldonCooper_75 Start: 46085, Stop: 45786, Start Num: 77

Candidate Starts for SheldonCooper_75:

(Start: 77 @46085 has 139 MA's), (Start: 101 @46043 has 3 MA's),

Gene: Shygu2_74 Start: 45745, Stop: 45449, Start Num: 77

Candidate Starts for Shygu2_74:

(Start: 77 @45745 has 139 MA's), (Start: 101 @45703 has 3 MA's), (121, 45625),

Gene: Skipitt_74 Start: 45641, Stop: 45342, Start Num: 77

Candidate Starts for Skipitt_74:

(Start: 77 @45641 has 139 MA's), (Start: 101 @45599 has 3 MA's),

Gene: Sknot_83 Start: 47264, Stop: 46953, Start Num: 73

Candidate Starts for Sknot_83:

(Start: 73 @47264 has 46 MA's), (Start: 80 @47252 has 1 MA's), (Start: 100 @47222 has 1 MA's), (102, 47216), (109, 47201),

Gene: Smeagan_86 Start: 48201, Stop: 47893, Start Num: 72

Candidate Starts for Smeagan_86:

(Start: 72 @48201 has 16 MA's), (Start: 73 @48198 has 46 MA's), (Start: 100 @48156 has 1 MA's), (102, 48150), (109, 48135), (135, 47976),

Gene: SmellyB_83 Start: 45554, Stop: 45264, Start Num: 77

Candidate Starts for SmellyB_83:

(34, 45698), (38, 45668), (55, 45602), (Start: 57 @45596 has 3 MA's), (Start: 77 @45554 has 139 MA's), (Start: 101 @45512 has 3 MA's), (102, 45509), (Start: 105 @45503 has 3 MA's), (106, 45500), (110, 45491), (121, 45434), (124, 45419),

Gene: SnapTap_83 Start: 47624, Stop: 47316, Start Num: 73

Candidate Starts for SnapTap_83:

(Start: 73 @47624 has 46 MA's), (102, 47576), (109, 47561), (118, 47519), (135, 47402),

Gene: Snape_84 Start: 46377, Stop: 46081, Start Num: 84

Candidate Starts for Snape_84:

(Start: 84 @46377 has 25 MA's), (91, 46368), (103, 46338), (107, 46329), (125, 46239),

Gene: Snickers_80 Start: 45600, Stop: 45337, Start Num: 94

Candidate Starts for Snickers_80:
(63, 45663), (70, 45645), (Start: 94 @45600 has 87 MA's), (102, 45579),

Gene: SoYo_77 Start: 45543, Stop: 45280, Start Num: 94
Candidate Starts for SoYo_77:
(63, 45606), (70, 45588), (Start: 94 @45543 has 87 MA's), (102, 45522),

Gene: SoilDragon_80 Start: 45070, Stop: 44807, Start Num: 94
Candidate Starts for SoilDragon_80:
(63, 45133), (70, 45115), (Start: 94 @45070 has 87 MA's), (102, 45049),

Gene: SororFago_82 Start: 47294, Stop: 47022, Start Num: 83
Candidate Starts for SororFago_82:
(39, 47426), (43, 47414), (Start: 83 @47294 has 27 MA's), (106, 47258), (109, 47255), (117, 47210),

Gene: Soshari_82 Start: 45651, Stop: 45388, Start Num: 94
Candidate Starts for Soshari_82:
(63, 45714), (70, 45696), (Start: 94 @45651 has 87 MA's), (102, 45630),

Gene: Sparxx_76 Start: 45643, Stop: 45344, Start Num: 77
Candidate Starts for Sparxx_76:
(Start: 77 @45643 has 139 MA's), (Start: 101 @45601 has 3 MA's),

Gene: Spike509_80 Start: 45652, Stop: 45389, Start Num: 94
Candidate Starts for Spike509_80:
(63, 45715), (70, 45697), (Start: 94 @45652 has 87 MA's), (102, 45631),

Gene: Spino_74 Start: 45647, Stop: 45348, Start Num: 77
Candidate Starts for Spino_74:
(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: Spouty_85 Start: 47708, Stop: 47427, Start Num: 83
Candidate Starts for Spouty_85:
(Start: 83 @47708 has 27 MA's), (Start: 94 @47690 has 87 MA's), (104, 47669), (125, 47573),

Gene: Stasia_73 Start: 45644, Stop: 45327, Start Num: 74
Candidate Starts for Stasia_73:
(24, 45875), (41, 45752), (69, 45659), (Start: 74 @45644 has 1 MA's), (Start: 76 @45641 has 7 MA's),
(Start: 77 @45638 has 139 MA's), (Start: 100 @45599 has 1 MA's),

Gene: SteMason_71 Start: 45644, Stop: 45345, Start Num: 77
Candidate Starts for SteMason_71:
(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: Steamy_75 Start: 46308, Stop: 46036, Start Num: 83
Candidate Starts for Steamy_75:
(Start: 83 @46308 has 27 MA's), (104, 46269), (106, 46263),

Gene: Stink_74 Start: 45501, Stop: 45226, Start Num: 100
Candidate Starts for Stink_74:
(41, 45666), (93, 45522), (Start: 100 @45501 has 1 MA's), (108, 45483), (120, 45414), (133, 45315),

Gene: Sultana_75 Start: 45644, Stop: 45345, Start Num: 77

Candidate Starts for Sultana_75:

(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: Sunhee_83 Start: 45584, Stop: 45309, Start Num: 83

Candidate Starts for Sunhee_83:

(Start: 83 @45584 has 27 MA's), (104, 45554), (106, 45548), (109, 45545), (113, 45530), (117, 45500),

Gene: SuperAwesome_83 Start: 46235, Stop: 45945, Start Num: 77

Candidate Starts for SuperAwesome_83:

(34, 46379), (38, 46349), (55, 46283), (Start: 57 @46277 has 3 MA's), (Start: 77 @46235 has 139 MA's), (Start: 101 @46193 has 3 MA's), (102, 46190), (Start: 105 @46184 has 3 MA's), (106, 46181), (110, 46172), (121, 46115),

Gene: SuperCallie99_80 Start: 46034, Stop: 45786, Start Num: 101

Candidate Starts for SuperCallie99_80:

(Start: 77 @46076 has 139 MA's), (Start: 101 @46034 has 3 MA's), (102, 46031), (Start: 105 @46025 has 3 MA's), (106, 46022), (110, 46013), (121, 45956),

Gene: SweetiePie_83 Start: 47757, Stop: 47449, Start Num: 73

Candidate Starts for SweetiePie_83:

(Start: 73 @47757 has 46 MA's), (102, 47709), (109, 47694), (118, 47652), (135, 47535),

Gene: TNguyen7_80 Start: 45994, Stop: 45722, Start Num: 94

Candidate Starts for TNguyen7_80:

(Start: 94 @45994 has 87 MA's),

Gene: Taquarus_74 Start: 45650, Stop: 45351, Start Num: 77

Candidate Starts for Taquarus_74:

(Start: 77 @45650 has 139 MA's), (Start: 101 @45608 has 3 MA's),

Gene: TarsusIV_82 Start: 47656, Stop: 47333, Start Num: 73

Candidate Starts for TarsusIV_82:

(21, 47893), (Start: 73 @47656 has 46 MA's), (Start: 100 @47617 has 1 MA's), (102, 47611),

Gene: Taurus_81 Start: 45630, Stop: 45367, Start Num: 94

Candidate Starts for Taurus_81:

(63, 45693), (70, 45675), (Start: 94 @45630 has 87 MA's), (102, 45609),

Gene: Temprado_85 Start: 45941, Stop: 45678, Start Num: 90

Candidate Starts for Temprado_85:

(18, 46241), (26, 46184), (27, 46181), (31, 46136), (59, 46013), (Start: 90 @45941 has 23 MA's), (Start: 101 @45929 has 3 MA's), (104, 45923), (115, 45884),

Gene: Terrific_84 Start: 47238, Stop: 46927, Start Num: 73

Candidate Starts for Terrific_84:

(Start: 73 @47238 has 46 MA's), (Start: 80 @47226 has 1 MA's), (Start: 100 @47196 has 1 MA's), (102, 47190), (109, 47175),

Gene: Texage_77 Start: 45999, Stop: 45721, Start Num: 94

Candidate Starts for Texage_77:

(78, 46020), (Start: 92 @46002 has 7 MA's), (Start: 94 @45999 has 87 MA's),

Gene: Thanksgivukkah_74 Start: 45645, Stop: 45346, Start Num: 77

Candidate Starts for Thanksgivukkah_74:
(Start: 77 @45645 has 139 MA's), (Start: 101 @45603 has 3 MA's),

Gene: Tiffany_79 Start: 45515, Stop: 45252, Start Num: 94
Candidate Starts for Tiffany_79:
(63, 45578), (70, 45560), (Start: 94 @45515 has 87 MA's), (102, 45494),

Gene: Timothy_84 Start: 46354, Stop: 46058, Start Num: 84
Candidate Starts for Timothy_84:
(Start: 84 @46354 has 25 MA's), (91, 46345), (93, 46342), (103, 46315), (107, 46306), (125, 46216),

Gene: Timshel_75 Start: 48520, Stop: 48227, Start Num: 76
Candidate Starts for Timshel_75:
(35, 48667), (40, 48634), (Start: 76 @48520 has 7 MA's), (97, 48490), (109, 48460),

Gene: TinaFeyge_73 Start: 45642, Stop: 45343, Start Num: 77
Candidate Starts for TinaFeyge_73:
(Start: 77 @45642 has 139 MA's), (Start: 101 @45600 has 3 MA's),

Gene: TinyTimmy_82 Start: 46083, Stop: 45787, Start Num: 84
Candidate Starts for TinyTimmy_82:
(Start: 84 @46083 has 25 MA's), (91, 46074), (93, 46071), (103, 46044), (107, 46035), (125, 45945),

Gene: Tinybot_74 Start: 45674, Stop: 45375, Start Num: 77
Candidate Starts for Tinybot_74:
(Start: 77 @45674 has 139 MA's), (Start: 101 @45632 has 3 MA's),

Gene: TiroTheta9_74 Start: 45641, Stop: 45342, Start Num: 77
Candidate Starts for TiroTheta9_74:
(Start: 77 @45641 has 139 MA's), (Start: 101 @45599 has 3 MA's),

Gene: Toaka_85 Start: 47815, Stop: 47546, Start Num: 83
Candidate Starts for Toaka_85:
(Start: 83 @47815 has 27 MA's), (Start: 94 @47797 has 87 MA's), (104, 47776), (126, 47677),

Gene: Todacoro_79 Start: 45998, Stop: 45720, Start Num: 94
Candidate Starts for Todacoro_79:
(78, 46019), (Start: 92 @46001 has 7 MA's), (Start: 94 @45998 has 87 MA's), (102, 45980),

Gene: ToneTone_81 Start: 45501, Stop: 45238, Start Num: 90
Candidate Starts for ToneTone_81:
(18, 45801), (26, 45744), (27, 45741), (31, 45696), (59, 45573), (Start: 90 @45501 has 23 MA's),
(Start: 101 @45489 has 3 MA's), (104, 45483), (115, 45444),

Gene: Topanga_73 Start: 45266, Stop: 44976, Start Num: 87
Candidate Starts for Topanga_73:
(69, 45299), (Start: 87 @45266 has 4 MA's),

Gene: Toro_76 Start: 49217, Stop: 48948, Start Num: 94
Candidate Starts for Toro_76:
(32, 49409), (36, 49391), (48, 49337), (49, 49334), (Start: 94 @49217 has 87 MA's), (98, 49205),
(Start: 105 @49187 has 3 MA's), (112, 49169), (113, 49163), (119, 49127), (125, 49088), (128, 49064),

Gene: Tristan_78 Start: 47933, Stop: 47640, Start Num: 73
Candidate Starts for Tristan_78:
(Start: 73 @47933 has 46 MA's), (99, 47897), (Start: 105 @47882 has 3 MA's),

Gene: Trixie_83 Start: 48218, Stop: 47910, Start Num: 75
Candidate Starts for Trixie_83:
(Start: 75 @48218 has 6 MA's), (Start: 100 @48179 has 1 MA's), (Start: 101 @48176 has 3 MA's),

Gene: Trooper_82 Start: 47215, Stop: 46895, Start Num: 73
Candidate Starts for Trooper_82:
(Start: 73 @47215 has 46 MA's), (102, 47167), (Start: 105 @47161 has 3 MA's), (135, 46984),

Gene: TroyPia_76 Start: 45682, Stop: 45383, Start Num: 77
Candidate Starts for TroyPia_76:
(Start: 77 @45682 has 139 MA's), (Start: 101 @45640 has 3 MA's),

Gene: Tubs_87 Start: 47925, Stop: 47641, Start Num: 83
Candidate Starts for Tubs_87:
(Start: 83 @47925 has 27 MA's), (Start: 94 @47907 has 87 MA's), (104, 47886), (125, 47790),

Gene: Tucker_84 Start: 45704, Stop: 45441, Start Num: 90
Candidate Starts for Tucker_84:
(18, 46004), (26, 45947), (27, 45944), (31, 45899), (59, 45776), (Start: 90 @45704 has 23 MA's),
(Start: 101 @45692 has 3 MA's), (104, 45686), (115, 45647),

Gene: Turbido_84 Start: 47922, Stop: 47614, Start Num: 72
Candidate Starts for Turbido_84:
(Start: 72 @47922 has 16 MA's), (Start: 73 @47919 has 46 MA's), (Start: 100 @47877 has 1 MA's),
(102, 47871), (109, 47856), (135, 47697),

Gene: Twister_84 Start: 48480, Stop: 48184, Start Num: 87
Candidate Starts for Twister_84:
(69, 48513), (Start: 87 @48480 has 4 MA's),

Gene: TygerBlood_75 Start: 45647, Stop: 45348, Start Num: 77
Candidate Starts for TygerBlood_75:
(Start: 77 @45647 has 139 MA's), (Start: 101 @45605 has 3 MA's),

Gene: Ugenie5_74 Start: 45396, Stop: 45133, Start Num: 94
Candidate Starts for Ugenie5_74:
(Start: 83 @45414 has 27 MA's), (Start: 94 @45396 has 87 MA's), (104, 45375), (125, 45279),

Gene: Ulysses_74 Start: 45330, Stop: 45031, Start Num: 77
Candidate Starts for Ulysses_74:
(Start: 77 @45330 has 139 MA's), (Start: 101 @45288 has 3 MA's),

Gene: Updawg_84 Start: 47452, Stop: 47141, Start Num: 73
Candidate Starts for Updawg_84:
(Start: 73 @47452 has 46 MA's), (Start: 80 @47440 has 1 MA's), (Start: 100 @47410 has 1 MA's),
(102, 47404), (109, 47389),

Gene: VA6_83 Start: 47497, Stop: 47174, Start Num: 72
Candidate Starts for VA6_83:

(15, 47827), (17, 47800), (45, 47590), (Start: 72 @47497 has 16 MA's), (Start: 73 @47494 has 46 MA's), (102, 47446), (109, 47431), (118, 47389),

Gene: Vanisoa_82 Start: 48147, Stop: 47884, Start Num: 83
Candidate Starts for Vanisoa_82:
(Start: 83 @48147 has 27 MA's), (104, 48114), (126, 48015),

Gene: Veracruz_76 Start: 46002, Stop: 45721, Start Num: 92
Candidate Starts for Veracruz_76:
(78, 46020), (Start: 92 @46002 has 7 MA's), (Start: 94 @45999 has 87 MA's), (102, 45981),

Gene: Vix_76 Start: 45710, Stop: 45447, Start Num: 94
Candidate Starts for Vix_76:
(63, 45773), (70, 45755), (Start: 94 @45710 has 87 MA's), (102, 45689),

Gene: VohminGhazi_83 Start: 45555, Stop: 45265, Start Num: 77
Candidate Starts for VohminGhazi_83:
(34, 45699), (38, 45669), (55, 45603), (Start: 57 @45597 has 3 MA's), (Start: 77 @45555 has 139 MA's), (Start: 101 @45513 has 3 MA's), (102, 45510), (Start: 105 @45504 has 3 MA's), (106, 45501), (110, 45492), (121, 45435), (124, 45420),

Gene: WalterMcMickey_83 Start: 48480, Stop: 48184, Start Num: 87
Candidate Starts for WalterMcMickey_83:
(69, 48513), (Start: 87 @48480 has 4 MA's),

Gene: Wander_75 Start: 45641, Stop: 45342, Start Num: 77
Candidate Starts for Wander_75:
(Start: 77 @45641 has 139 MA's), (Start: 101 @45599 has 3 MA's),

Gene: WeiHuaDA_85 Start: 48465, Stop: 48169, Start Num: 84
Candidate Starts for WeiHuaDA_85:
(5, 49035), (21, 48720), (Start: 73 @48480 has 46 MA's), (Start: 84 @48465 has 25 MA's), (Start: 100 @48441 has 1 MA's), (109, 48420), (118, 48378),

Gene: Whabigail7_83 Start: 47920, Stop: 47612, Start Num: 72
Candidate Starts for Whabigail7_83:
(Start: 72 @47920 has 16 MA's), (Start: 73 @47917 has 46 MA's), (102, 47869), (109, 47854), (135, 47695),

Gene: WideWale_84 Start: 47452, Stop: 47141, Start Num: 73
Candidate Starts for WideWale_84:
(Start: 73 @47452 has 46 MA's), (Start: 80 @47440 has 1 MA's), (Start: 100 @47410 has 1 MA's), (102, 47404), (109, 47389),

Gene: Wiks_83 Start: 45572, Stop: 45309, Start Num: 90
Candidate Starts for Wiks_83:
(18, 45872), (26, 45815), (27, 45812), (31, 45767), (59, 45644), (Start: 90 @45572 has 23 MA's), (Start: 101 @45560 has 3 MA's), (104, 45554), (115, 45515),

Gene: Wilbur_75 Start: 45644, Stop: 45345, Start Num: 77
Candidate Starts for Wilbur_75:
(Start: 77 @45644 has 139 MA's), (Start: 101 @45602 has 3 MA's),

Gene: Wile_73 Start: 45720, Stop: 45427, Start Num: 66

Candidate Starts for Wile_73:

(Start: 57 @45741 has 3 MA's), (Start: 58 @45738 has 13 MA's), (Start: 66 @45720 has 2 MA's), (67, 45717), (82, 45687), (108, 45675), (115, 45636), (121, 45603),

Gene: Wizard007_74 Start: 45464, Stop: 45153, Start Num: 58

Candidate Starts for Wizard007_74:

(Start: 57 @45467 has 3 MA's), (Start: 58 @45464 has 13 MA's), (Start: 66 @45446 has 2 MA's), (67, 45443), (82, 45413), (108, 45401), (115, 45362), (121, 45329),

Gene: Wolpertinger_83 Start: 46389, Stop: 46090, Start Num: 84

Candidate Starts for Wolpertinger_83:

(Start: 84 @46389 has 25 MA's), (91, 46380), (103, 46350), (107, 46341), (125, 46251),

Gene: Wooldri_82 Start: 45536, Stop: 45273, Start Num: 94

Candidate Starts for Wooldri_82:

(63, 45599), (70, 45581), (Start: 94 @45536 has 87 MA's), (102, 45515),

Gene: WorldCup_85 Start: 47587, Stop: 47336, Start Num: 94

Candidate Starts for WorldCup_85:

(Start: 83 @47605 has 27 MA's), (Start: 94 @47587 has 87 MA's), (104, 47566),

Gene: WunderPhul_84 Start: 45570, Stop: 45307, Start Num: 90

Candidate Starts for WunderPhul_84:

(18, 45870), (26, 45813), (27, 45810), (31, 45765), (59, 45642), (Start: 90 @45570 has 23 MA's), (Start: 101 @45558 has 3 MA's), (115, 45513),

Gene: Xena_73 Start: 45735, Stop: 45418, Start Num: 58

Candidate Starts for Xena_73:

(Start: 57 @45738 has 3 MA's), (Start: 58 @45735 has 13 MA's), (65, 45720), (82, 45684), (108, 45669), (115, 45630), (121, 45597),

Gene: XianYue_82 Start: 47707, Stop: 47390, Start Num: 72

Candidate Starts for XianYue_82:

(11, 48094), (21, 47950), (Start: 72 @47707 has 16 MA's), (99, 47671), (134, 47482),

Gene: Yecey3_88 Start: 47683, Stop: 47417, Start Num: 83

Candidate Starts for Yecey3_88:

(Start: 83 @47683 has 27 MA's), (Start: 94 @47665 has 87 MA's), (Start: 101 @47650 has 3 MA's), (106, 47638), (130, 47509),

Gene: YoSam321_75 Start: 45642, Stop: 45343, Start Num: 77

Candidate Starts for YoSam321_75:

(Start: 77 @45642 has 139 MA's), (Start: 101 @45600 has 3 MA's),

Gene: Yokurt_83 Start: 45572, Stop: 45309, Start Num: 90

Candidate Starts for Yokurt_83:

(18, 45872), (26, 45815), (27, 45812), (31, 45767), (59, 45644), (Start: 90 @45572 has 23 MA's), (Start: 101 @45560 has 3 MA's), (104, 45554), (115, 45515),

Gene: Zaka_84 Start: 45572, Stop: 45309, Start Num: 90

Candidate Starts for Zaka_84:

(18, 45872), (26, 45815), (27, 45812), (31, 45767), (59, 45644), (Start: 90 @45572 has 23 MA's),
(Start: 101 @45560 has 3 MA's), (104, 45554), (115, 45515),

Gene: Zarafa_76 Start: 45978, Stop: 45694, Start Num: 94

Candidate Starts for Zarafa_76:

(Start: 94 @45978 has 87 MA's), (135, 45774),

Gene: Zulu_85 Start: 45950, Stop: 45687, Start Num: 90

Candidate Starts for Zulu_85:

(18, 46250), (26, 46193), (27, 46190), (31, 46145), (59, 46022), (Start: 90 @45950 has 23 MA's),
(Start: 101 @45938 has 3 MA's), (104, 45932), (115, 45893),