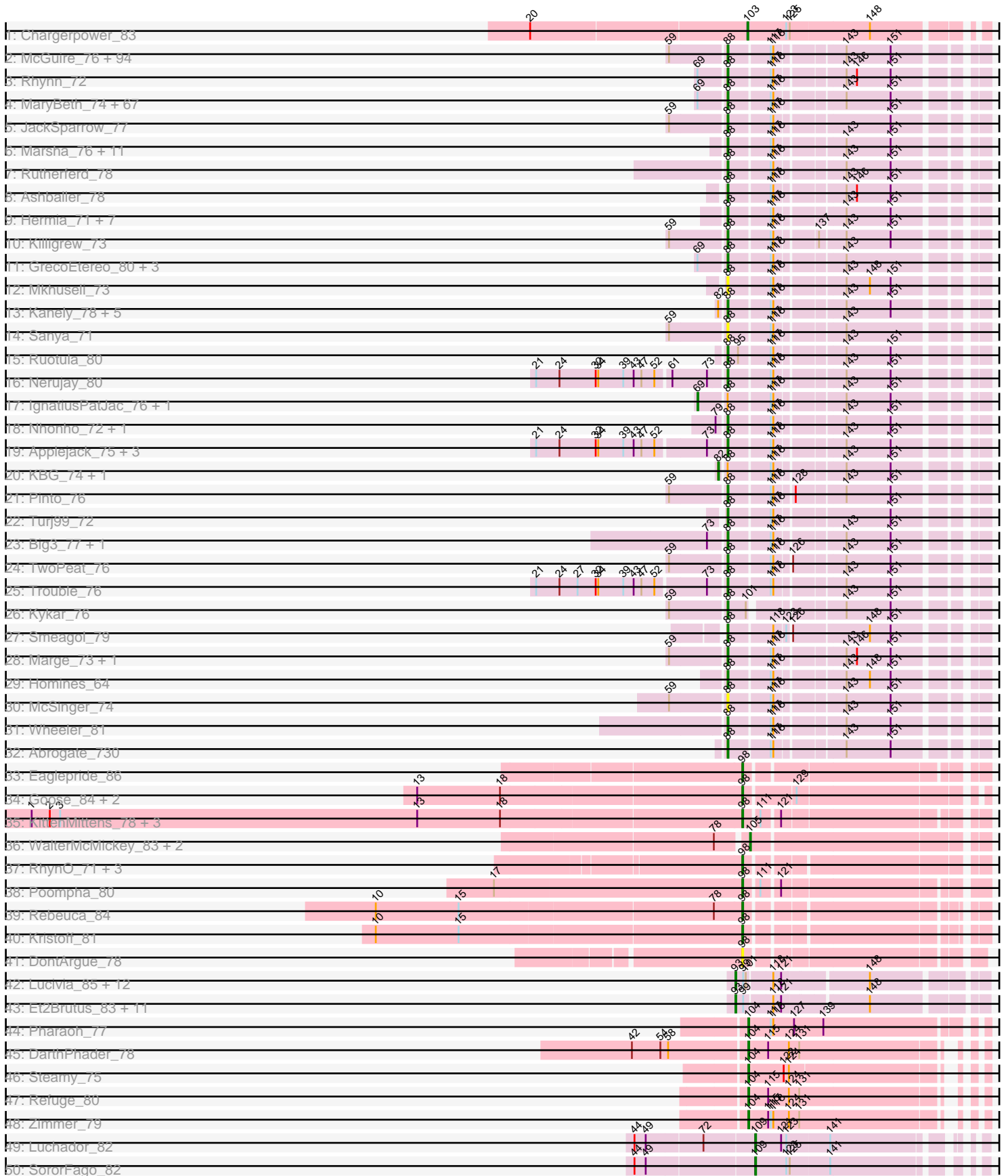
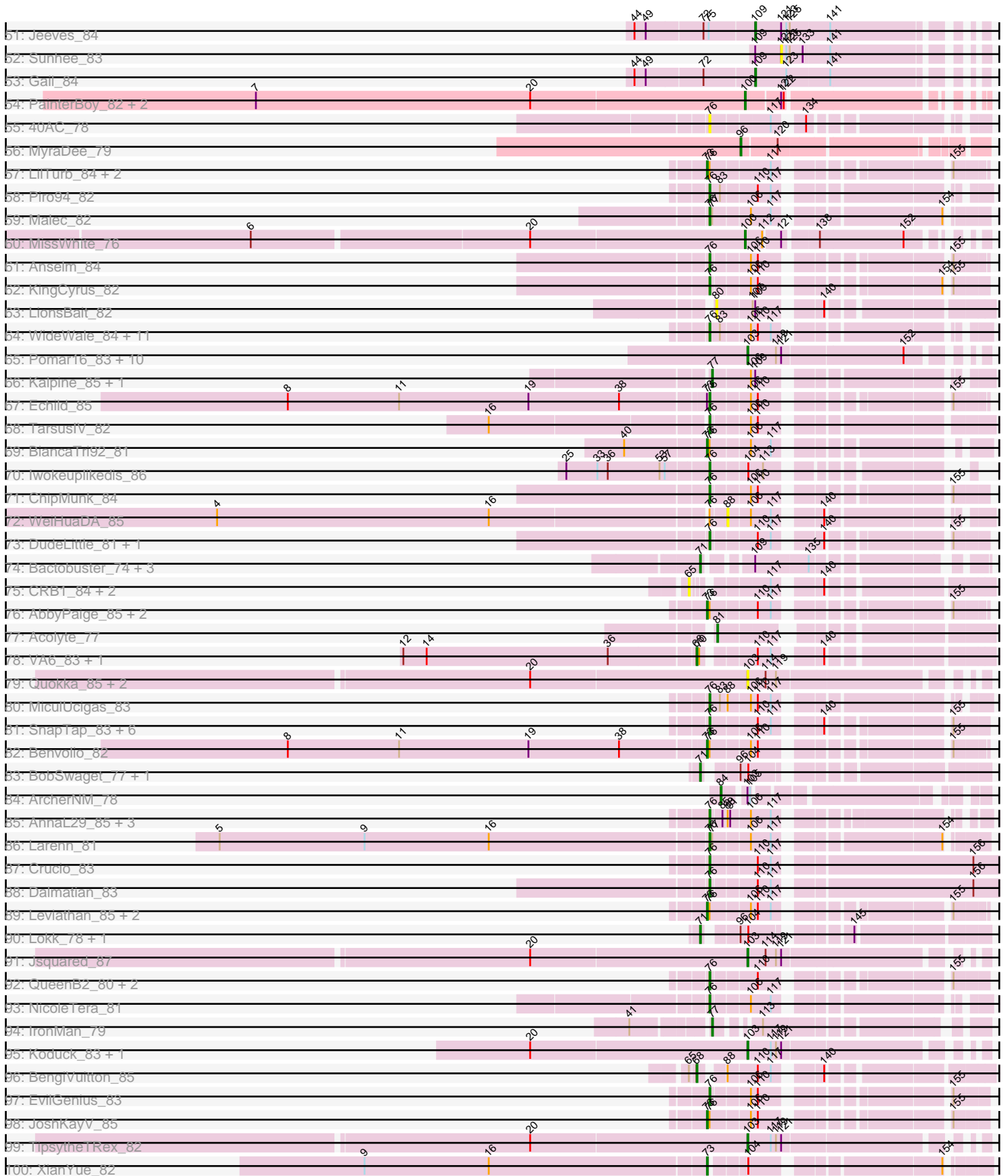


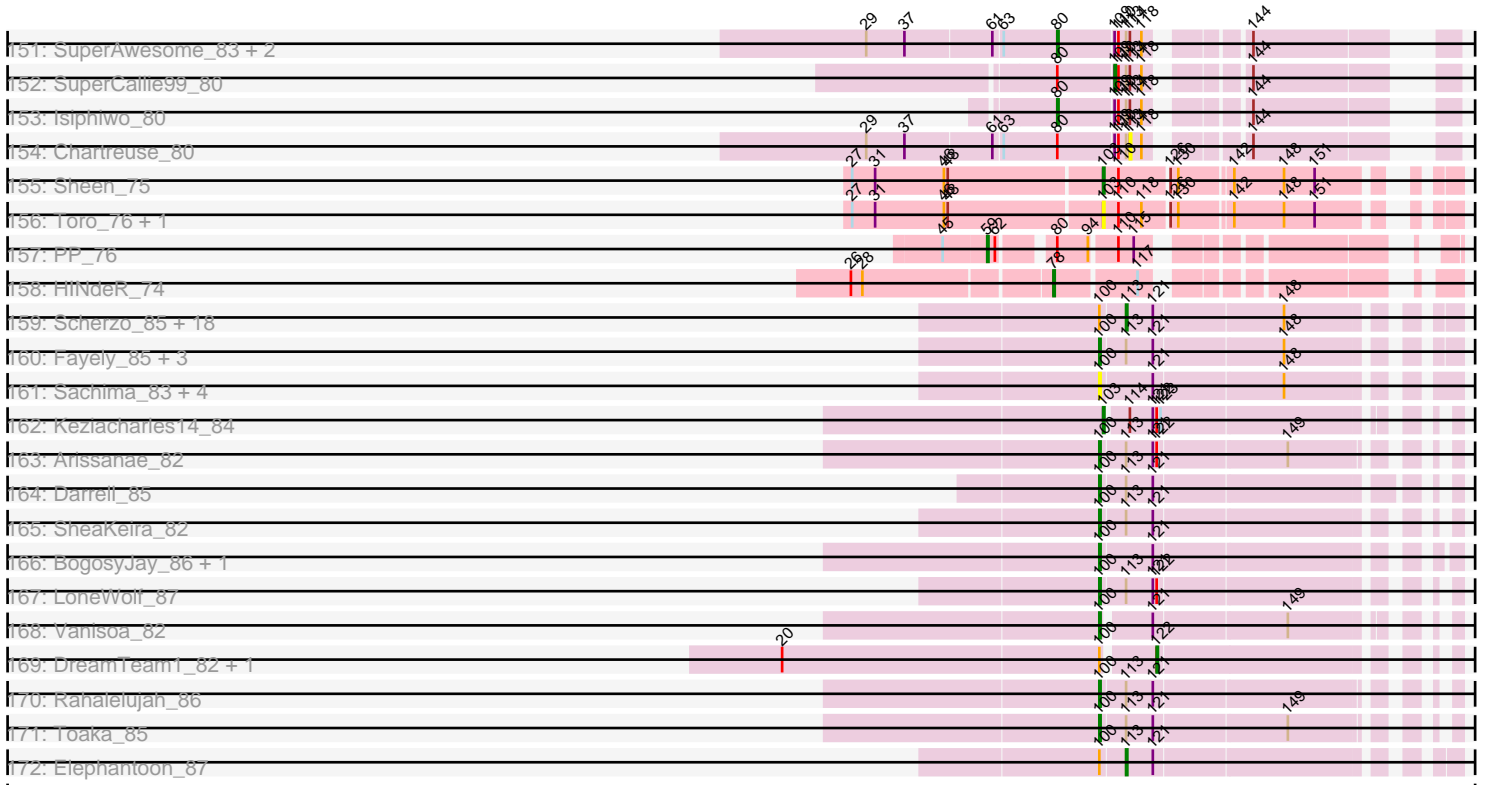
Pham 215658



Pham 215658



Pham 215658



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 215658 Report

This analysis was run 02/22/25 on database version 588.

Pham number 215658 has 734 members, 75 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_83
- Track 2 : McGuire_76, Alsfro_83, Adahisdi_72, Anglerfish_78, Rufus_79, PinkPlastic_72, Dreamboat_76, Iqorha_68, Arcanine_80, Snazzy_77, Ichabod_79, StrongArm_72, Crispicous1_71, GageAP_79, Dynamix_76, Bexan_71, Bob3_77, Teodoridan_74, Fushigi_70, DD5_74, Rubeus_77, Traft412_76, Ciao_73, Gyzlar_69, Monet_80, Maroc7_78, Slagathor_77, Peterson_75, Ajay_73, BillKnuckles_70, Marcell_69, Petp2012_77, Fascinus_72, BigMau_79, Hami1_69, Bigfoot_71, SarFire_80, Briton15_79, GMonster_72, Paraselene_74, Jerm2_78, Jasper_75, Inyanga_68, Rohr_79, Seabiscuit_77, BeesKnees_77, Oogway_75, Phlippers_74, Fenn_79, Treddle_78, Francis47_78, Agaliana_74, Marchy_68, Bones_72, Michley_77, Bircsak_77, CactusRose_79, Norz_72, Pippin_77, PherrisBueller_75, DreamCatcher_80, ProMouse_76, Gompeii16_77, Papez_78, ILeeKay_74, Brunns_79, Bigchungu_76, ShortQueendom_69, PacerPaul_81, Wilkins_73, Topgun_72, Alvin_74, Lamina13_80, Seanderson_76, Zephyr_78, Solon_72, Beatrix_73, Thor_80, Rajelicia_78, HermioneGrange_80, Pepe_70, Blue_73, Kugel_78, Edtherson_75, Squee_77, Violet_71, SkiPole_85, Chanagan_73, TheloniousMonk_78, Switzer_75, Naira_78, Scowl_77, HanShotFirst_74, Sagefire_73, Carlyle_77
- Track 3 : Rhynn_72
- Track 4 : MaryBeth_74, BPBiabs31_81, Levia_67, NEHalo_72, Arlo_76, Magnar_72, Mryolo_71, Moose_78, Pelly_79, Perseus_76, AFIS_73, Museum_76, PhrostyMug_78, Bethlehem_79, EnzoK_76, Forsytheast_78, Paphu_71, BluSpix_74, JuliaChild_77, Lockley_73, Zeeculate_72, KyMonks1A_82, Ohno789_79, Sibs6_76, HarryOW_77, Swole_77, STLscum_82, Fajezeel_79, BarrowTuph_78, MPlant7149_76, Eyeball_75, SpikeBT_73, Lopton_75, Molly_76, Greg_79, Aeneas_81, PhineBark_71, Espresso_70, Tote_72, Dulcie_77, Acme_80, Sumter_73, U2_70, PSullivan_74, Abbysshoes_76, Dussy_75, Parliament_77, Gandalf20_75, Sorpresa_75, Pita2_77, MetalQZJ_73, Makemake_79, Pari_81, PattyP_76, Kenmech_78, Niza_76, Burton_77, DrFeelGood_72, Mule_75, PascalRango_74, SwissCheese_80, Corvo_78, Tasp14_75, Smairt_80, Gwendoluna_80, Watermelon_79, Lesedi_73, Sandaddy_74
- Track 5 : JackSparrow_77
- Track 6 : Marsha_76, Sunshine924_77, Petruccio_76, Tripl3t_79, BK1_70, Bxb1_70, KSSJEB_73, Magnito_75, A6_70, Raid_74, LilBib_73, Graduation_79
- Track 7 : Rutherferd_78
- Track 8 : Ashballer_78

- Track 9 : Hermia_71, Melissauren88_39, Fruitloop_38, Batiatus_39, QTRLifeCrisis_75, Buttons_73, LunaBlu_43, Polo2Bam_44
- Track 10 : Killigrew_73
- Track 11 : GrecoEtereo_80, Manatee_74, Euphoria_77, BaconJack_78
- Track 12 : Mkhuseli_73
- Track 13 : Kanely_78, Doom_69, ConceptII_81, Altman_79, Licorice_77, Atkinbua_82
- Track 14 : Sanya_71
- Track 15 : Ruotula_80
- Track 16 : Nerujay_80
- Track 17 : IgnatiusPatJac_76, StewieG_72
- Track 18 : Nhonho_72, Ringer_76
- Track 19 : Applejack_75, Barriga_83, Dexes_77, Hope4ever_77
- Track 20 : KBG_74, BigPaolini_74
- Track 21 : Pinto_76
- Track 22 : Turj99_72
- Track 23 : Big3_77, MrGordo_77
- Track 24 : TwoPeat_76
- Track 25 : Trouble_76
- Track 26 : Kykar_76
- Track 27 : Smeagol_79
- Track 28 : Marge_73, Target_76
- Track 29 : Homines_64
- Track 30 : McSinger_74
- Track 31 : Wheeler_81
- Track 32 : Abrogate_730
- Track 33 : Eaglepride_86
- Track 34 : Goose_84, OKCentral2016_82, Chupacabra_80
- Track 35 : KittenMittens_78, Severus_81, PeaceMeal1_80, Drake94_80
- Track 36 : WalterMcMickey_83, Topanga_73, Twister_84
- Track 37 : RhynO_71, DustyMartin_86, Shapes_86, Rowdy_86
- Track 38 : Poompha_80
- Track 39 : Rebeuca_84
- Track 40 : Kristoff_81
- Track 41 : DontArgue_78
- Track 42 : Lucivia_85, Timothy_84, Aneem_85, Joselito_83, Petersenfast_78, Bowtie_81, Mabel_84, Bud_79, Munch_84, MaCh_84, Orange_84, Flaverint_85, TinyTimmy_82
- Track 43 : Et2Brutus_83, Gilberta_81, Sham4_80, Fibonacci_83, Bachome_82, Salz_79, Ebony_84, Insomnia_83, Hutc2_80, Mulciber_82, Snape_84, Jabith_83
- Track 44 : Pharaoh_77
- Track 45 : DarthPhader_78
- Track 46 : Steamy_75
- Track 47 : Refuge_80
- Track 48 : Zimmer_79
- Track 49 : Luchador_82
- Track 50 : SororFago_82
- Track 51 : Jeeves_84
- Track 52 : Sunhee_83
- Track 53 : Gail_84
- Track 54 : PainterBoy_82, Lucyedi_82, EagleEye_83
- Track 55 : 40AC_78
- Track 56 : MyraDee_79

- Track 57 : LilTurb_84, Jerm_85, Agape74_85
- Track 58 : Piro94_82
- Track 59 : Malec_82
- Track 60 : MissWhite_76
- Track 61 : Anselm_84
- Track 62 : KingCyrus_82
- Track 63 : LionsBait_82
- Track 64 : WideWale_84, Flare16_83, HarryHoudini_83, Updawg_84, Sknot_83, Drake55_84, Baehexic_82, Terrific_84, Centaur_83, NaSiaTalie_84, Gratitude_81, Equemioh13_83
- Track 65 : Pomar16_83, AN9_82, VC3_81, ANI8_82, Travvers_83, StarStuff_83, Tomathan_83, Duplo_84, Kerberos_83, DBQu4n_83, C3_75
- Track 66 : Kalpine_85, Trixie_83
- Track 67 : Echild_85
- Track 68 : TarsusIV_82
- Track 69 : BiancaTri92_81
- Track 70 : Iwokeuplikedis_86
- Track 71 : ChipMunk_84
- Track 72 : WeiHuaDA_85
- Track 73 : DudeLittle_81, Retro23_83
- Track 74 : Bactobuster_74, Landor_80, Phaded_76, Jaan_80
- Track 75 : CRB1_84, First_0084, 20ES_85
- Track 76 : AbbyPaige_85, Dignity_85, Whabigail7_83
- Track 77 : Acolyte_77
- Track 78 : VA6_83, AN3_83
- Track 79 : Quokka_85, MajorMajor_80, Bradman_86
- Track 80 : MiculUcigas_83
- Track 81 : SnapTap_83, FiringLine_83, QueenBeesly_83, Georgie2_85, SweetiePie_83, SemperFi_83, Power_83
- Track 82 : Benvolio_82
- Track 83 : BobSwaget_77, Miko_78
- Track 84 : ArcherNM_78
- Track 85 : AnnaL29_85, Changeling_82, Loser_86, RedRock_83
- Track 86 : Larenn_81
- Track 87 : Crucio_83
- Track 88 : Dalmatian_83
- Track 89 : Leviathan_85, Turbido_84, Smeagan_86
- Track 90 : Lokk_78, Rachaly_80
- Track 91 : Jsquared_87
- Track 92 : QueenB2_80, Heffalump_80, Fameo_81
- Track 93 : NicoleTera_81
- Track 94 : IronMan_79
- Track 95 : Koduck_83, L5_76
- Track 96 : BengiVuitton_85
- Track 97 : EvilGenius_83
- Track 98 : JoshKayV_85
- Track 99 : TipsytheTRex_82
- Track 100 : XianYue_82
- Track 101 : Tristan_78
- Track 102 : Deloris_85
- Track 103 : EZMoney23_79
- Track 104 : LadyBird_87
- Track 105 : Colin_82

- Track 106 : Trooper_82
- Track 107 : JHC117_75, LugYA_83, LBerry_81, Kalnoky_80, Gemma_77, Daishi_79, Penny1_80, Grif_78, EpicPhail_81, Dieselweasel_81, Taurus_81, Kalb97_80, MarQuardt_80, Colbster_76, Aglet_81, GingkoMaracino_80, Grum1_80, PurpleHaze_79, Pawn_78, Groupthink_80, Soshari_82, GtownJaz_80, SoilDragon_80, Marius_80, Bigflo_77, Tiffany_79, MadMarie_78, Wooldri_82, Rummer_79, Jobu08_76, JenCasNa_81, Manu_79, Louie6_79, Snickers_76, Cullens_81, Beauxregard13_79, Hercules11_80, Sabinator_78, Fernando_81, Bxz2_75, LarryKay_80, TinyPebbles_76, PotatoSplit_81, Phoxy_80, Anubis_84, P28Green_80, BuzzBuzz_74, Heliosoles_77, SoYo_77, HaveUMetTed_80, Ollie_80, Methuselah_73, MoneyMay_80, PhishRPhriends_76, Marie_78, OlanP_78, Spike509_80, Vix_76, Reba_75, KADY_77, Farber_80, Calvinny_77, HashRod_81, Phoebe_81
- Track 108 : Pistachio_79, TNguyen7_80, SaturnRing_79, BlueBird_81, Bugatti_79, Giroux_77, Idleandcovert_79, Phantastic_80, Puppy_80
- Track 109 : JF4_75, JF2_75, B1_69
- Track 110 : Microwolf_76, Pembroke_80, AugsMagnumOpus_83, Stagni_77, Mainiac_79, Grub_78, Lowa_77, Malinsilva_83, Sabia_78, Lilith_78, PGHhamlin_82, MuchMore_83, StepMih_80, DaHudson_79
- Track 111 : Texage_77, Noella_80
- Track 112 : Heathen_78, DropBear_77, MA5_77, Fred313_76, Marchesa_78, Kachowdy_76, HelDan_79, Scout_78
- Track 113 : Todacoro_79, Pocahontas_78, Popcicle_79, Panamaxus_76, ResDef_77, Hookmount_79
- Track 114 : Margo_79, Norbert_75
- Track 115 : JeppNRM_80
- Track 116 : QuinnKiro_78, Veracruz_76, Lambert1_79
- Track 117 : Isca_75, MK4_72
- Track 118 : BreSam8_80, Watson_79
- Track 119 : Sabertooth_75, OKaNui_74, Phacado_75, 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, Bruiser_74, Relief_74, TinaFeyge_73, Wander_75, Albee_75, Maxo_77, Flux_76, Nemo27_74, Bombshell_75, Eris_74, Abdiel_74, TiroTheta9_74, Kingmustik0402_75, Jaykayelowell_72, Romney_74, Sparxx_76, PeterPeter_75, Eurydice_76, Broseidon_75, Cocoaberry_75, SheldonCooper_75, Alberto7_76, ICleared_74, Kyee_75, CentreCat_75, Scamp_75, Baby16_75, LappelDuVide_75, LittleB_75, Ulysses_74, Chaph_75, Phelipe_76, Kratak_74, DirtyDunning_74, Caelakin_73, Skipitt_74, Kamy_74, Iceman_73, BubbleTrouble_74, Mayonnaise_72, Spino_74, SenorClean_70, Roosevelt_73, Nyxis_74, JetBlade_76, TroyPia_76, Florean_75, Dhanush_75, Pipcraft_71, Thanksgivukkah_74, Commander_73, Citius_75, Rosa24_71, BellusTerra_76, Eros_75, Lemur_75, Tinybot_74, MeeZee_74, Maverick_74, Koan_70, Melvin_77, Clarenza_74, Peaches_73, Shaka_73, Deano_72, NorthStar_72, Ohfah_76, KFPoly_74, Blackmoor_74, Palestino_74, Connomayer_75, HamSlice_71, BangNhom_72, Phighter1804_75, Wilbur_75, Arturo_72, TygerBlood_75, LittleGuy_75, Koreni_74, Taquarus_74, Gadost_75, Lunsford_75, NotAPhaseMom_74, Phontbonne_75, Nebs_76, Medusa_74, Annyong_74, LochMonster_76, Funston_74, Cerulean_77
- Track 120 : Noelle_75
- Track 121 : Happiness_74, ChampagnePapi_78, Shygu2_74, Obama12_76, LHTSCC_77
- Track 122 : Cintron_76
- Track 123 : AvatarAhPeg_74

- Track 124 : Stasia_73
- Track 125 : Stink_74
- Track 126 : Cindaradix_70
- Track 127 : Camperdownii_73, Kremtemulon_74
- Track 128 : Mundrea_74
- Track 129 : Druantia_74, Eagle_74, Lorenzo_75, Polymorphads_76
- Track 130 : LeoAvram_74
- Track 131 : Miramae_74
- Track 132 : Eapen_75
- Track 133 : Tarynearal_69
- Track 134 : ForGetIt_71, PickleBack_71, Lev2_71, Conspiracy_71, Aragog_70, Discoknowium_68
- Track 135 : Airmid_73
- Track 136 : Micasa_70, Theia_69, Dublin_70
- Track 137 : AgentM_70, Phlorence_69
- Track 138 : Bluefalcon_66, Ghoulboy_70, Archetta_68, SydNat_70
- Track 139 : LittleCherry_69, Bonamassa_70, HuhtaEnerson15_68
- Track 140 : Naca_73, ElTiger69_76, PetterN_78, Chadwick_74, Benedict_74
- Track 141 : Cuco_69, Coog_67, Midas2_67
- Track 142 : Swirley_70, Twigg_67, Prinasha11_68
- Track 143 : Zolita_69
- Track 144 : MarysWell_70
- Track 145 : Milcery_70
- Track 146 : Yokurt_83, Koko_85, Wiks_83, Artemis2UCLA_83, BlessJoy_83, Zulu_85, Lilbunny_83, Blue7_85, Roksolana_84, Zaka_84, Indra_87, Tucker_84
- Track 147 : Jordennis_81
- Track 148 : EricB_82
- Track 149 : Priamo_85
- Track 150 : Temprado_85, Helmet_85, Garak_85
- Track 151 : SuperAwesome_83, Pmask_82, Newrala_82
- Track 152 : SuperCallie99_80
- Track 153 : Isiphiwo_80
- Track 154 : Chartreuse_80
- Track 155 : Sheen_75
- Track 156 : Toro_76, FlyCatcher_78
- Track 157 : PP_76
- Track 158 : HINdeR_74
- Track 159 : Scherzo_85, Qobbit_85, Pioneer_87, Horex_86, Phaeder_87, Aliter_80, Ugenie5_74, Lilleskat_84, Beemo_87, ExplosioNervosa_85, Phonnegut_87, Eidsmoe_85, HortumSL17_88, Onglai_85, Conquerage_85, Alma_85, Catalina_89, Priya_85, Myxus_87
- Track 160 : Fayely_85, Tubs_87, Spouty_85, EmyBug_84
- Track 161 : Sachima_83, RyeScarlet_88, Hanray_85, EdogawaKiddo_86, Jiawan_85
- Track 162 : Keziacharles14_84
- Track 163 : Arissanae_82
- Track 164 : Darrell_85
- Track 165 : SheaKeira_82
- Track 166 : BogosyJay_86, Maminiaina_86
- Track 167 : LoneWolf_87
- Track 168 : Vanisoa_82
- Track 169 : DreamTeam1_82, Charm_82
- Track 170 : Rahalelujah_86

- Track 171 : Toaka_85
- Track 172 : Elephantoon_87

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

The start number called the most often in the published annotations is 88, it was called in 203 of the 659 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A6_70, AFIS_73, Abbyshoes_76, Abrogate_730, Acme_80, Adahisdi_72, Aeneas_81, Agaliana_74, Ajay_73, Alsfro_83, Altman_79, Alvin_74, Anglerfish_78, Applejack_75, Arcanine_80, Arlo_76, Ashballer_78, Atkinbua_82, BK1_70, BPBiebs31_81, BaconJack_78, Barriga_83, BarrowTuph_78, Batiatus_39, Beatrix_73, BeesKnees_77, Bethlehem_79, Bexan_71, Big3_77, BigMau_79, Bigchungu_76, Bigfoot_71, BillKnuckles_70, Bircsak_77, BluSpix_74, Blue_73, Bob3_77, Bones_72, Briton15_79, Bruns_79, Burton_77, Buttons_73, Bxb1_70, CactusRose_79, Carlyle_77, Chanagan_73, Ciao_73, ConceptII_81, Corvo_78, Crispicous1_71, DD5_74, Dexes_77, Doom_69, DrFeelGood_72, DreamCatcher_80, Dreamboat_76, Dulcie_77, Dussy_75, Dynamix_76, EZMoney23_79, Edtherson_75, EnzoK_76, Espresso_70, Euphoria_77, Eyeball_75, Fajezeel_79, Fascinus_72, Fenn_79, Forsytheast_78, Francis47_78, Fruitloop_38, Fushigi_70, GMonster_72, GageAP_79, Gandalf20_75, Gompeii16_77, Graduation_79, GrecoEtereo_80, Greg_79, Gwendoluna_80, Gyzlar_69, Hami1_69, HanShotFirst_74, HarryOW_77, Hermia_71, HermioneGrange_80, Homines_64, Hope4ever_77, ILeeKay_74, Ichabod_79, Inyanga_68, Iqorha_68, JackSparrow_77, Jasper_75, Jerm2_78, JuliaChild_77, KSSJEB_73, Kanely_78, Kenmech_78, Killigrew_73, Kugel_78, KyMonks1A_82, Kykar_76, Lamina13_80, Lesedi_73, Levia_67, Licorice_77, LilBib_73, Lockley_73, Lopton_75, LunaBlu_43, MPlant7149_76, Magnar_72, Magnito_75, Makemake_79, Manatee_74, Marcell_69, Marchy_68, Marge_73, Maroc7_78, Marsha_76, MaryBeth_74, McGuire_76, McSinger_74, Melissauren88_39, MetalQZJ_73, Michley_77, Mkhuseleli_73, Molly_76, Monet_80, Moose_78, MrGordo_77, Mryolo_71, Mule_75, Museum_76, NEHalo_72, Naira_78, Nerujay_80, Nhonho_72, Niza_76, Norz_72, Ohno789_79, Oogway_75, PSullivan_74, PacerPaul_81, Papez_78, Paphu_71, Paraselene_74, Pari_81, Parliament_77, PascalRango_74, PattyP_76, Pelly_79, Pepe_70, Perseus_76, Peterson_75, Petp2012_77, Petruccio_76, PherrisBueller_75, PhineBark_71, Phlippers_74, PhrostyMug_78, PinkPlastic_72, Pinto_76, Pippin_77, Pita2_77, Polo2Bam_44, ProMouse_76, QTRlifeCrisis_75, Raid_74, Rajelicia_78, Rhynn_72, Ringer_76, Rohr_79, Rubeus_77, Rufus_79, Ruotula_80, Rutherferd_78, STLscum_82, Sagefire_73, Sandaddy_74, Sanya_71, SarFire_80, Scowl_77, Seabiscuit_77, Seanderson_76, ShortQueendom_69, Sibs6_76, SkiPole_85, Slagathor_77, Smairt_80, Smeagol_79, Snazzy_77, Solon_72, Sorpresa_75, SpikeBT_73, Squee_77, StrongArm_72, Sumter_73, Sunshine924_77, SwissCheese_80, Switzer_75, Swole_77, Target_76, Tasp14_75, Teodoridan_74, TheloniousMonk_78, Thor_80, Topgun_72, Tote_72, Traft412_76, Treddle_78, Tripl3t_79, Trouble_76, Turj99_72, TwoPeat_76, U2_70, Violet_71, Watermelon_79, WeiHuaDA_85, Wheeler_81, Wilkins_73, Zeeculate_72, Zephyr_78,

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

• AnnaL29_85, BengiVuitton_85, BigPaolini_74, Changeling_82, Deloris_85, IgnatiusPatJac_76, KBG_74, LadyBird_87, Loser_86, MiculUcigas_83, RedRock_83, StewieG_72,

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

• 20ES_85, 40AC_78, AN3_83, AN9_82, ANI8_82, AbbyPaige_85, Abdiel_74, Acolyte_77, Agape74_85, AgentM_70, Aglet_81, Airmid_73, Albee_75, Alberto7_76, Aliter_80, Alma_85, Aneem_85, Anyong_74, Anselm_84, Anubis_84, Aragog_70, ArcherNM_78, Archetta_68, Arissanae_82, Artemis2UCLA_83, Arturo_72, AugsMagnumOpus_83, AvatarAhPeg_74, Avle17_75, B1_69, Baby16_75, Bachome_82, Bactobuster_74, Baehexic_82, BangNhom_72, Bartimeaus_75, Beauxregard13_79, Beemo_87, BellusTerra_76, Benedict_74, Benvolio_82, BiancaTri92_81, Bigflo_77, Blackmoor_74, BlessJoy_83, Blue7_85, BlueBird_81, Bluefalcon_66, BobSwaget_77, BogosyJay_86, Bombshell_75, Bonamassa_70, Bowtie_81, Bradman_86, BreSam8_80, Broseidon_75, Bruiser_74, BubbleTrouble_74, Bud_79, Bugatti_79, Burger_73, BuzzBuzz_74, Bxz2_75, C3_75, CRB1_84, Caelakin_73, Calvinny_77, Camperdownii_73, Catalina_89, Centaur_83, CentreCat_75, Cerulean_77, Chadwick_74, ChampagnePapi_78, Chaph_75, Chargerpower_83, Charm_82, Chartreuse_80, ChipMunk_84, Chupacabra_80, Cindaradix_70, Cintron_76, Citius_75, Clarenza_74, Cocoaberry_75, Colbster_76, Colin_82, Commander_73, Connomayer_75, Conquerage_85, Conspiracy_71, Coog_67, Crucio_83, Cuco_69, Cullens_81, DBQu4n_83, DaHudson_79, Daishi_79, Dalmatian_83, Darrell_85, DarthPhader_78, Deano_72, Dhanush_75, Dieselweasel_81, Dignity_85, DirtyDunning_74, Discoknowium_68, DontArgue_78, Drake55_84, Drake94_80, DreamTeam1_82, DropBear_77, Druantia_74, Dublin_70, DudeLittle_81, Duplo_84, DustyMartin_86, EagleEye_83, Eagle_74, Eaglepride_86, Eapen_75, Ebony_84, Echild_85, EdogawaKiddo_86, Eidsmoe_85, ElTiger69_76, Elephantoon_87, EmyBug_84, EpicPhail_81, Equemioh13_83, EricB_82, Eris_74, Eros_75, Et2Brutus_83, Eurydice_76, EvilGenius_83, ExplosioNervosa_85, Fameo_81, Farber_80, Fayely_85, Fernando_81, Fibonacci_83, FiringLine_83, First_0084, Flare16_83, Flaverint_85, Florean_75, Flux_76, FlyCatcher_78, ForGetIt_71, Fred313_76, Funston_74, Gadost_75, Gail_84, Garak_85, Gemma_77, Georgie2_85, Ghoulyboy_70, Gilberta_81, GingkoMaracino_80, Giroux_77, Goose_84, Gratitude_81, Grif_78, Groupthink_80, Grub_78, Grum1_80, GtownJaz_80, HINdeR_74, HamSlice_71, Hanray_85, Happiness_74, HarryHoudini_83, HashRod_81, HaveUMetTed_80, Heathen_78, Heffalump_80, HelDan_79, Heliosoles_77, Helmet_85, Hercules11_80, Horex_86, Holli_74, Hookmount_79, HortumSL17_88, Houdini22_74, HuhtaEnerson15_68, Hutc2_80, ICleared_74, Iceman_73, Idleandcovert_79, Indra_87, Insomnia_83, Iracema64_75, IronMan_79, Isca_75, Isiphiwo_80, Iwokeuplikedis_86, JF2_75, JF4_75, JHC117_75, Jaan_80, Jabith_83, Jaykayelowell_72, Jeeves_84, JenCasNa_81, JeppNRM_80, Jerm_85, JetBlade_76, Jiawan_85, Jobu08_76, JoongJeon_74, Jordennis_81, Joselito_83, JoshKayV_85, Jsquared_87, KADY_77, KFPoly_74, Kachowdy_76, Kalb97_80, Kalnoky_80, Kalpine_85, Kampy_74, Kerberos_83, Keziacharles14_84, KingCyrus_82, Kingmustik0402_75, KittenMittens_78, Koan_70, Koduck_83, Koko_85, Koreni_74, Kratark_74, Kremtemulon_74, Kristoff_81, Kyee_75, L5_76, LBerry_81, LHTSCC_77, Lambert1_79, Landor_80, LappelDuVide_75, Larenn_81, LarryKay_80, Lemur_75, LeoAvram_74, Lev2_71, Leviathan_85, LilTurb_84, Lilbunny_83, Lilith_78, Lilleskat_84, LionsBait_82, LittleB_75, LittleCherry_69, LittleGuy_75, LochMonster_76, Lokk_78, LoneWolf_87, Lorenzo_75, Louie6_79, Lowa_77, Luchador_82, Lucivia_85, Lucyedi_82, LugYA_83, Lunsford_75, MA5_77, MK4_72, MaCh_84, Mabel_84, MadMarie_78, Mainiac_79, MajorMajor_80, Malec_82, Malinsilva_83, Maminiaina_86, Manu_79, MarQuardt_80, Marchesa_78,

Margo_79, Marie_78, Marius_80, MarysWell_70, Maverick_74, Maxo_77, Mayonnaise_72, Mazhar510_75, Medusa_74, MeeZee_74, Melvin_77, Methuselah_73, Micasa_70, Microwolf_76, Midas2_67, Miko_78, Milcery_70, Millski_74, Miramae_74, MissWhite_76, MoneyMay_80, Morrow_77, MuchMore_83, Mulciber_82, Munch_84, Mundrea_74, MyraDee_79, Myxus_87, NaSiaTalie_84, Naca_73, Nebs_76, Nemo27_74, Newrala_82, NicoleTera_81, Noella_80, Noelle_75, Norbert_75, NorthStar_72, NotAPhaseMom_74, Nyxis_74, OKCentral2016_82, OKaNui_74, Obama12_76, Ohfah_76, OlanP_78, Ollie_80, Onglai_85, Orange_84, P28Green_80, PGHhamlin_82, PP_76, PainterBoy_82, Palestino_74, Panamaxus_76, Pawn_78, PeaceMeal1_80, Peaches_73, Pembroke_80, Penny1_80, PeterPeter_75, Petersenfast_78, PetterN_78, Phacado_75, Phaded_76, Phaeder_87, Phantastic_80, Pharaoh_77, Phelipe_76, Phighter1804_75, PhishRPhriends_76, Phlorence_69, Phoebe_81, Phonnegut_87, Phontbonne_75, Phoxy_80, PickleBack_71, Pioneer_87, Pipcraft_71, Piro94_82, Pistachio_79, Pmask_82, Pocahontas_78, Polymorphads_76, Pomar16_83, Poompha_80, Popcicle_79, PotatoSplit_81, Power_83, Priamo_85, Prinash11_68, Priya_85, Pumbaa_75, Puppy_80, PurpleHaze_79, Qobbit_85, QueenB2_80, QueenBeesly_83, QuinnKiro_78, Quokka_85, Rachaly_80, Rahalelujah_86, Reba_75, Rebeuca_84, Refuge_80, Relief_74, ResDef_77, Retro23_83, RhynO_71, Roksolana_84, Romney_74, Roosevelt_73, Rosa24_71, Rowdy_86, Ruin_75, Rummer_79, RyeScarlet_88, Sabertooth_75, Sabia_78, Sabinator_78, Sachima_83, Salz_79, SaturnRing_79, Scamp_75, Scherzo_85, Scout_78, SemperFi_83, SenorClean_70, Severus_81, Shaka_73, Sham4_80, Shapes_86, SheaKeira_82, Sheen_75, SheldonCooper_75, Shygu2_74, Skipitt_74, Sknot_83, Smeagan_86, SnapTap_83, Snape_84, Snickers_76, SoYo_77, SoilDragon_80, SororFago_82, Soshari_82, Sparxx_76, Spike509_80, Spino_74, Spouty_85, Stagni_77, StarStuff_83, Stasia_73, Steamy_75, StepMih_80, Stink_74, Sunhee_83, SuperAwesome_83, SuperCallie99_80, SweetiePie_83, Swirley_70, SydNat_70, TNguyen7_80, Taquarus_74, TarsusIV_82, Tarynearal_69, Taurus_81, Temprado_85, Terrific_84, Texage_77, Thanksgivukkah_74, Theia_69, Tiffany_79, Timothy_84, TinaFeyge_73, TinyPebbles_76, TinyTimmy_82, Tinybot_74, TipsytheTRex_82, TiroTheta9_74, Toaka_85, Todacoro_79, Tomathan_83, Topanga_73, Toro_76, Travvers_83, Tristan_78, Trixie_83, Trooper_82, TroyPia_76, Tubs_87, Tucker_84, Turbido_84, Twigg_67, Twister_84, TygerBlood_75, Ugenie5_74, Ulysses_74, Updawg_84, VA6_83, VC3_81, Vanisoa_82, Veracruz_76, Vix_76, WalterMcMickey_83, Wander_75, Watson_79, Whabigail7_83, WideWale_84, Wiks_83, Wilbur_75, Wooldri_82, XianYue_82, YoSam321_75, Yokurt_83, Zaka_84, Zimmer_79, Zolita_69, Zulu_85,

Summary by start number:

Start 51:

- Found in 3 of 734 (0.4%) of genes in pham
- Manual Annotations of this start: 3 of 659
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Camperdownii_73 (A4), Kremtemulon_74 (A4), Noelle_75 (A4),

Start 55:

- Found in 1 of 734 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 659
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LeoAvram_74 (A4),

Start 59:

- Found in 105 of 734 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 659
- Called 1.0% of time when present
- Phage (with cluster) where this start called: PP_76 (A7),

Start 65:

- Found in 6 of 734 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 659
- 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 67:

- Found in 2 of 734 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 659
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Stasia_73 (A4),

Start 68:

- Found in 85 of 734 (11.6%) of genes in pham
- Manual Annotations of this start: 3 of 659
- Called 3.5% of time when present
- Phage (with cluster) where this start called: AN3_83 (A2), BengiVuitton_85 (A2), VA6_83 (A2),

Start 69:

- Found in 81 of 734 (11.0%) of genes in pham
- Manual Annotations of this start: 5 of 659
- Called 7.4% of time when present
- Phage (with cluster) where this start called: AvatarAhPeg_74 (A4), Cindaradix_70 (A4), IgnatiusPatJac_76 (A1), Miramae_74 (A4), Mundrea_74 (A4), StewieG_72 (A1),

Start 71:

- Found in 125 of 734 (17.0%) of genes in pham
- Manual Annotations of this start: 120 of 659
- Called 99.2% 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), Baby16_75 (A4), Bactobuster_74 (A2), BangNhom_72 (A4), Bartimeaus_75 (A4), BellusTerra_76 (A4), Blackmoor_74 (A4), BobSwaget_77 (A2), 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), Citius_75 (A4), Clarenza_74 (A4), Cocoaberry_75 (A4), Commander_73 (A4), Connomayer_75 (A4), Deano_72 (A4), Dhanush_75 (A4), DirtyDunning_74 (A4), 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), HamSlice_71 (A4), Happiness_74 (A4), Holli_74 (A4), Houdini22_74 (A4), ICleared_74 (A4), Iceman_73 (A4), Iracema64_75 (A4), Jaan_80 (A2), Jaykayelowell_72 (A4), JetBlade_76 (A4), JoongJeon_74 (A4), KFPoly_74 (A4), Kamy_74 (A4), Kingmustik0402_75 (A4), Koan_70 (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), Loka_78 (A2), Lorenzo_75 (A4), Lunsford_75 (A4), Maverick_74 (A4), Maxo_77 (A4), Mayonnaise_72 (A4), Mazhar510_75 (A4), Medusa_74 (A4), MeeZee_74 (A4), Melvin_77 (A4), Miko_78 (A2), Millski_74 (A4), Morrow_77 (A4), Nebs_76 (A4), Nemo27_74 (A4), 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), Polymorphads_76 (A4), Pumbaa_75 (A4), Rachaly_80 (A2), Relief_74 (A4), Romney_74 (A4), Roosevelt_73 (A4), Rosa24_71 (A4), Ruin_75 (A4), Sabertooth_75 (A4), Scamp_75 (A4), SenorClean_70 (A4), Shaka_73 (A4), SheldonCooper_75 (A4), Shygu2_74 (A4), Skipitt_74 (A4), Sparxx_76 (A4), Spino_74 (A4), Taquarus_74 (A4), Thanksgivukkah_74 (A4), TinaFeyge_73 (A4), Tinybot_74 (A4), TiroTheta9_74 (A4), TroyPia_76 (A4), TygerBlood_75 (A4), Ulysses_74 (A4), Wander_75 (A4), Wilbur_75 (A4), YoSam321_75 (A4),

Start 73:

- Found in 22 of 734 (3.0%) of genes in pham
- Manual Annotations of this start: 13 of 659
- Called 59.1% of time when present
- Phage (with cluster) where this start called: AbbyPaige_85 (A2), Agape74_85 (A2), Benvolio_82 (A2), BiancaTri92_81 (A2), Dignity_85 (A2), Jerm_85 (A2), JoshKayV_85 (A2), Leviathan_85 (A2), LilTurb_84 (A2), Smeagan_86 (A2), Turbido_84 (A2), Whabigail7_83 (A2), XianYue_82 (A2),

Start 76:

- Found in 59 of 734 (8.0%) of genes in pham
- Manual Annotations of this start: 40 of 659
- Called 76.3% of time when present
- Phage (with cluster) where this start called: 40AC_78 (A17), AnnaL29_85 (A2), Anselm_84 (A2), Baehexic_82 (A2), Centaur_83 (A2), Changeling_82 (A2), 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), Georgie2_85 (A2), Gratitude_81 (A2), HarryHoudini_83 (A2), Heffalump_80 (A2), Iwokeuplikedis_86 (A2), KingCyrus_82 (A2), Larenn_81 (A2), Loser_86 (A2), Malec_82 (A2), MiculUcigas_83 (A2), NaSiaTalie_84 (A2), NicoleTera_81 (A2), Piro94_82 (A2), Power_83 (A2), QueenB2_80 (A2), QueenBeesly_83 (A2), RedRock_83 (A2), Retro23_83 (A2), SemperFi_83 (A2), Sknot_83 (A2), SnapTap_83 (A2), SweetiePie_83 (A2), TarsusIV_82 (A2), Terrific_84 (A2), Trooper_82 (A2), Updawg_84 (A2), WideWale_84 (A2),

Start 77:

- Found in 87 of 734 (11.9%) of genes in pham
- Manual Annotations of this start: 5 of 659
- Called 6.9% of time when present
- Phage (with cluster) where this start called: BreSam8_80 (A3), IronMan_79 (A2), Kalpine_85 (A2), Tristan_78 (A2), Trixie_83 (A2), Watson_79 (A3),

Start 78:

- Found in 6 of 734 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 659
- Called 16.7% of time when present

- Phage (with cluster) where this start called: HINdeR_74 (A7),

Start 80:

- Found in 11 of 734 (1.5%) of genes in pham
- Manual Annotations of this start: 4 of 659
- Called 45.5% of time when present
- Phage (with cluster) where this start called: Isiphiwo_80 (A6), LionsBait_82 (A2), Newrala_82 (A6), Pmask_82 (A6), SuperAwesome_83 (A6),

Start 81:

- Found in 2 of 734 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 659
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acolyte_77 (A2), Cintron_76 (A4),

Start 82:

- Found in 8 of 734 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 659
- Called 25.0% of time when present
- Phage (with cluster) where this start called: BigPaolini_74 (A1), KBG_74 (A1),

Start 84:

- Found in 1 of 734 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 659
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArcherNM_78 (A2),

Start 86:

- Found in 6 of 734 (0.8%) of genes in pham
- Manual Annotations of this start: 6 of 659
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bonamassa_70 (A5), Coog_67 (A5), Cuco_69 (A5), HuhtaEnerson15_68 (A5), LittleCherry_69 (A5), Midas2_67 (A5),

Start 87:

- Found in 9 of 734 (1.2%) of genes in pham
- Manual Annotations of this start: 8 of 659
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Archetta_68 (A5), Bluefalcon_66 (A5), Dublin_70 (A5), Ghouboy_70 (A5), MarysWell_70 (A5), Micasa_70 (A5), SydNat_70 (A5), Theia_69 (A5),

Start 88:

- Found in 236 of 734 (32.2%) of genes in pham
- Manual Annotations of this start: 203 of 659
- Called 94.9% of time when present
- Phage (with cluster) where this start called: A6_70 (A1), AFIS_73 (A1), Abbyshoes_76 (A1), Abrogate_730 (A1), Acme_80 (A1), Adahisdi_72 (A1), Aeneas_81 (A1), Agaliana_74 (A1), Ajay_73 (A1), Alsfro_83 (A1), Altman_79 (A1), Alvin_74 (A1), Anglerfish_78 (A1), Applejack_75 (A1), Arcanine_80 (A1), Arlo_76 (A1), Ashballer_78 (A1), Atkinbua_82 (A1), BK1_70 (A1), BPBiebs31_81 (A1), BaconJack_78 (A1), Barriga_83 (A1), BarrowTuph_78 (A1), Batiatus_39 (F1), Beatrix_73 (A1), BeesKnees_77 (A1), Bethlehem_79 (A1), Bexan_71 (A1), Big3_77

(A1), BigMau_79 (A1), Bigchung_76 (A1), Bigfoot_71 (A1), BillKnuckles_70 (A1), Bircsak_77 (A1), BluSpix_74 (A1), Blue_73 (A1), Bob3_77 (A1), Bones_72 (A1), Briton15_79 (A1), Bruns_79 (A1), Burton_77 (A1), Buttons_73 (A1), Bxb1_70 (A1), CactusRose_79 (A1), Carlyle_77 (A1), Chanagan_73 (A1), Ciao_73 (A1), ConceptII_81 (A1), Corvo_78 (A1), Crispicious1_71 (A1), DD5_74 (A1), Dexes_77 (A1), Doom_69 (A1), DrFeelGood_72 (A1), DreamCatcher_80 (A1), Dreamboat_76 (A1), Dulcie_77 (A1), Dussy_75 (A1), Dynamix_76 (A1), EZMoney23_79 (A2), Edtherson_75 (A1), EnzoK_76 (A1), Espresso_70 (A1), Euphoria_77 (A1), Eyeball_75 (A1), Fajezeel_79 (A1), Fascinus_72 (A1), Fenn_79 (A1), Forsytheast_78 (A1), Francis47_78 (A1), Fruitloop_38 (F1), Fushigi_70 (A1), GMonster_72 (A1), GageAP_79 (A1), Gandalf20_75 (A1), Gompeii16_77 (A1), Graduation_79 (A1), GrecoEtereo_80 (A1), Greg_79 (A1), Gwendoluna_80 (A1), Gyzlar_69 (A1), Hami1_69 (A1), HanShotFirst_74 (A1), HarryOW_77 (A1), Hermia_71 (A1), HermioneGrange_80 (A1), Homines_64 (A1), Hope4ever_77 (A1), ILeeKay_74 (A1), Ichabod_79 (A1), Inyanga_68 (A1), Iqorha_68 (A1), JackSparrow_77 (A1), Jasper_75 (A1), Jerm2_78 (A1), JuliaChild_77 (A1), KSSJEB_73 (A1), Kanely_78 (A1), Kenmech_78 (A1), Killigrew_73 (A1), Kugel_78 (A1), KyMonks1A_82 (A1), Kykar_76 (A1), Lamina13_80 (A1), Lesedi_73 (A1), Levia_67 (A1), Licorice_77 (A1), LilBib_73 (A1), Lockley_73 (A1), Lopton_75 (A1), LunaBlu_43 (F1), MPlant7149_76 (A1), Magnar_72 (A1), Magnito_75 (A1), Makemake_79 (A1), Manatee_74 (A1), Marcell_69 (A1), Marchy_68 (A1), Marge_73 (A1), Maroc7_78 (A1), Marsha_76 (A1), MaryBeth_74 (A1), McGuire_76 (A1), McSinger_74 (A1), Melissauren88_39 (F1), MetalQZJ_73 (A1), Michley_77 (A1), Mkhusei_73 (A1), Molly_76 (A1), Monet_80 (A1), Moose_78 (A1), MrGordo_77 (A1), Mryolo_71 (A1), Mule_75 (A1), Museum_76 (A1), NEHalo_72 (A1), Naira_78 (A1), Nerujay_80 (A1), Nhonho_72 (A1), Niza_76 (A1), Norz_72 (A1), Ohno789_79 (A1), Oogway_75 (A1), PSullivan_74 (A1), PacerPaul_81 (A1), Papez_78 (A1), Paphu_71 (A1), Paraselene_74 (A1), Pari_81 (A1), Parliament_77 (A1), PascalRango_74 (A1), PattyP_76 (A1), Pelly_79 (A1), Pepe_70 (A1), Perseus_76 (A1), Peterson_75 (A1), Petp2012_77 (A1), Petruccio_76 (A1), PherrisBueller_75 (A1), PhineBark_71 (A1), Phlippers_74 (A1), PhrostyMug_78 (A1), PinkPlastic_72 (A1), Pinto_76 (A1), Pippin_77 (A1), Pita2_77 (A1), Polo2Bam_44 (F1), ProMouse_76 (A1), QTRlifeCrisis_75 (A1), Raid_74 (A1), Rajelicia_78 (A1), Rhynn_72 (A1), Ringer_76 (A1), Rohr_79 (A1), Rubeus_77 (A1), Rufus_79 (A1), Ruotula_80 (A1), Rutherferd_78 (A1), STLscum_82 (A1), Sagefire_73 (A1), Sandaddy_74 (A1), Sanya_71 (A1), SarFire_80 (A1), Scowl_77 (A1), Seabiscuit_77 (A1), Seanderson_76 (A1), ShortQueendom_69 (A1), Sibs6_76 (A1), SkiPole_85 (A1), Slagathor_77 (A1), Smairt_80 (A1), Smeagol_79 (A1), Snazzy_77 (A1), Solon_72 (A1), Sorpresa_75 (A1), SpikeBT_73 (A1), Squee_77 (A1), StrongArm_72 (A1), Sumter_73 (A1), Sunshine924_77 (A1), SwissCheese_80 (A1), Switzer_75 (A1), Swole_77 (A1), Target_76 (A1), Tasp14_75 (A1), Teodoridan_74 (A1), TheloniousMonk_78 (A1), Thor_80 (A1), Topgun_72 (A1), Tote_72 (A1), Traft412_76 (A1), Treddle_78 (A1), Tripl3t_79 (A1), Trouble_76 (A1), Turj99_72 (A1), TwoPeat_76 (A1), U2_70 (A1), Violet_71 (A1), Watermelon_79 (A1), WeiHuaDA_85 (A2), Wheeler_81 (A1), Wilkins_73 (A1), Zeeculate_72 (A1), Zephyr_78 (A1),

Start 89:

- Found in 31 of 734 (4.2%) of genes in pham
- Manual Annotations of this start: 11 of 659
- Called 41.9% of time when present
- Phage (with cluster) where this start called: AgentM_70 (A5), Aragog_70 (A5), Conspiracy_71 (A5), Discoknowium_68 (A5), ForGetIt_71 (A5), Lev2_71 (A5), Milcery_70 (A5), Phlorence_69 (A5), PickleBack_71 (A5), Prinasse11_68 (A5), Swirley_70 (A5), Tarynearal_69 (A5), Twigg_67 (A5),

Start 92:

- Found in 15 of 734 (2.0%) of genes in pham
- Manual Annotations of this start: 2 of 659
- Called 13.3% of time when present
- Phage (with cluster) where this start called: Airmid_73 (A5), Zolita_69 (A5),

Start 93:

- Found in 25 of 734 (3.4%) of genes in pham
- Manual Annotations of this start: 24 of 659
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aneem_85 (A11), Bachome_82 (A11), Bowtie_81 (A11), Bud_79 (A11), 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), Lucivia_85 (A11), MaCh_84 (A11), Mabel_84 (A11), Mulciber_82 (A11), Munch_84 (A11), Orange_84 (A11), Petersenfast_78 (A11), Salz_79 (A11), Sham4_80 (A11), Snape_84 (A11), Timothy_84 (A11), TinyTimmy_82 (A11),

Start 96:

- Found in 5 of 734 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 659
- Called 20.0% of time when present
- Phage (with cluster) where this start called: MyraDee_79 (A18),

Start 97:

- Found in 6 of 734 (0.8%) of genes in pham
- Manual Annotations of this start: 5 of 659
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Benedict_74 (A5), Chadwick_74 (A5), EITiger69_76 (A5), Naca_73 (A5), PetterN_78 (A5),

Start 98:

- Found in 16 of 734 (2.2%) of genes in pham
- Manual Annotations of this start: 12 of 659
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chupacabra_80 (A10), DontArgue_78 (A10), Drake94_80 (A10), DustyMartin_86 (A10), Eaglepride_86 (A10), Goose_84 (A10), KittenMittens_78 (A10), Kristoff_81 (A10), 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 100:

- Found in 44 of 734 (6.0%) of genes in pham
- Manual Annotations of this start: 17 of 659
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Arissanae_82 (A9), BogosyJay_86 (A9), Darrell_85 (A9), EagleEye_83 (A16), EdogawaKiddo_86 (A9), EmyBug_84 (A9), Fayely_85 (A9), Hanray_85 (A9), Jiawan_85 (A9), LoneWolf_87 (A9), Lucyedi_82 (A16), Maminiaina_86 (A9), MissWhite_76 (A2), PainterBoy_82 (A16), Rahalelujah_86 (A9), RyeScarlet_88 (A9), Sachima_83 (A9), SheaKeira_82 (A9), Spouty_85 (A9), Toaka_85 (A9), Tubs_87 (A9), Vanisoa_82 (A9),

Start 103:

- Found in 42 of 734 (5.7%) of genes in pham
- Manual Annotations of this start: 23 of 659
- Called 71.4% of time when present
- Phage (with cluster) where this start called: AN9_82 (A2), ANI8_82 (A2), Bradman_86 (A2), C3_75 (A2), Chargerpower_83 (A), DBQu4n_83 (A2), Duplo_84 (A2), FlyCatcher_78 (A7), Isca_75 (A3), Jsquared_87 (A2), Kerberos_83 (A2), Keziacharles14_84 (A9), Koduck_83 (A2), L5_76 (A2), Lambert1_79 (A3), MK4_72 (A3), MajorMajor_80 (A2), Margo_79 (A3), Norbert_75 (A3), Pomar16_83 (A2), QuinnKiro_78 (A3), Quokka_85 (A2), Sheen_75 (A7), StarStuff_83 (A2), TopsytheTRex_82 (A2), Tomathan_83 (A2), Toro_76 (A7), Travvers_83 (A2), VC3_81 (A2), Veracruz_76 (A3),

Start 104:

- Found in 11 of 734 (1.5%) of genes in pham
- Manual Annotations of this start: 5 of 659
- Called 45.5% of time when present
- Phage (with cluster) where this start called: DARTHPhader_78 (A12), Pharaoh_77 (A12), Refuge_80 (A12), Steamy_75 (A12), Zimmer_79 (A12),

Start 105:

- Found in 4 of 734 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 659
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Topanga_73 (A10), Twister_84 (A10), WalterMcMickey_83 (A10),

Start 107:

- Found in 22 of 734 (3.0%) of genes in pham
- Manual Annotations of this start: 12 of 659
- Called 59.1% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_83 (A6), BlessJoy_83 (A6), Blue7_85 (A6), Indra_87 (A6), Koko_85 (A6), Lilbunny_83 (A6), Roksolana_84 (A6), Stink_74 (A4), Tucker_84 (A6), Wiks_83 (A6), Yokurt_83 (A6), Zaka_84 (A6), Zulu_85 (A6),

Start 108:

- Found in 116 of 734 (15.8%) of genes in pham
- Manual Annotations of this start: 96 of 659
- Called 92.2% of time when present
- Phage (with cluster) where this start called: Aglet_81 (A3), Anubis_84 (A3), AugsMagnumOpus_83 (A3), B1_69 (A3), Beauxregard13_79 (A3), Bigflo_77 (A3), BlueBird_81 (A3), Bugatti_79 (A3), BuzzBuzz_74 (A3), Bxz2_75 (A3), Calvinny_77 (A3), Colbster_76 (A3), Cullens_81 (A3), DaHudson_79 (A3), Daishi_79 (A3), Dieselweasel_81 (A3), DropBear_77 (A3), EpicPhail_81 (A3), Farber_80 (A3), Fernando_81 (A3), Fred313_76 (A3), Gemma_77 (A3), GingkoMaracino_80 (A3), Giroux_77 (A3), Grif_78 (A3), Groupthink_80 (A3), Grub_78 (A3), Grum1_80 (A3), GtownJaz_80 (A3), HashRod_81 (A3), HaveUMetTed_80 (A3), Heathen_78 (A3), HelDan_79 (A3), Heliosoles_77 (A3), Hercules11_80 (A3), Hookmount_79 (A3), Idleandcovert_79 (A3), JF2_75 (A3), JF4_75 (A3), JHC117_75 (A3), JenCasNa_81 (A3), JeppNRM_80 (A3), Jobu08_76 (A3), KADY_77 (A3), Kachowdy_76 (A3), Kalb97_80 (A3), Kalnoky_80 (A3), LBerry_81 (A3), LarryKay_80 (A3), Liliith_78 (A3), Louie6_79 (A3), Iowa_77 (A3), LugYA_83 (A3), MA5_77 (A3), MadMarie_78 (A3),

Mainiac_79 (A3), Malinsilva_83 (A3), Manu_79 (A3), MarQuardt_80 (A3), Marchesa_78 (A3), Marie_78 (A3), Marius_80 (A3), Methuselah_73 (A3), Microwolf_76 (A3), MoneyMay_80 (A3), MuchMore_83 (A3), Noella_80 (A3), OlanP_78 (A3), Ollie_80 (A3), P28Green_80 (A3), PGHhamlin_82 (A3), Panamaxus_76 (A3), Pawn_78 (A3), Pembroke_80 (A3), Penny1_80 (A3), Phantastic_80 (A3), PhishRPhriends_76 (A3), Phoebe_81 (A3), Phoxy_80 (A3), Pistachio_79 (A3), Pocahontas_78 (A3), Popcicle_79 (A3), PotatoSplit_81 (A3), Puppy_80 (A3), PurpleHaze_79 (A3), Reba_75 (A3), ResDef_77 (A3), Rummer_79 (A3), Sabia_78 (A3), Sabinator_78 (A3), SaturnRing_79 (A3), Scout_78 (A3), Snickers_76 (A3), SoYo_77 (A3), SoilDragon_80 (A3), Soshari_82 (A3), Spike509_80 (A3), Stagni_77 (A3), StepMih_80 (A3), TNguyen7_80 (A3), Taurus_81 (A3), Texage_77 (A3), Tiffany_79 (A3), TinyPebbles_76 (A3), Todacoro_79 (A3), Vix_76 (A3), Wooldri_82 (A3),

Start 109:

- Found in 142 of 734 (19.3%) of genes in pham
- Manual Annotations of this start: 7 of 659
- Called 4.9% of time when present
- Phage (with cluster) where this start called: Gail_84 (A14), Jeeves_84 (A14), Jordennis_81 (A6), Luchador_82 (A14), Priamo_85 (A6), SororFago_82 (A14), SuperCallie99_80 (A6),

Start 113:

- Found in 58 of 734 (7.9%) of genes in pham
- Manual Annotations of this start: 18 of 659
- Called 41.4% of time when present
- Phage (with cluster) where this start called: Aliter_80 (A9), Alma_85 (A9), Beemo_87 (A9), Catalina_89 (A9), Conquerage_85 (A9), Eidsmoe_85 (A9), Elephantoon_87 (A9), EricB_82 (A6), ExplosioNervosa_85 (A9), Garak_85 (A6), Helmet_85 (A6), Horex_86 (A9), HortumSL17_88 (A9), Lilleskat_84 (A9), Myxus_87 (A9), Onglai_85 (A9), Phaeder_87 (A9), Phonnegut_87 (A9), Pioneer_87 (A9), Priya_85 (A9), Qobbit_85 (A9), Scherzo_85 (A9), Temprado_85 (A6), Ugenie5_74 (A9),

Start 114:

- Found in 22 of 734 (3.0%) of genes in pham
- No Manual Annotations of this start.
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Chartreuse_80 (A6),

Start 121:

- Found in 92 of 734 (12.5%) of genes in pham
- No Manual Annotations of this start.
- Called 1.1% of time when present
- Phage (with cluster) where this start called: Sunhee_83 (A14),

Start 122:

- Found in 9 of 734 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 659
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Charm_82 (A9), DreamTeam1_82 (A9),

Summary by clusters:

There are 17 clusters represented in this pham: A, A14, A17, A16, A11, A10, A12, A18, F1, A1, A3, A2, A5, A4, A7, A6, A9,

Info for manual annotations of cluster A:

- Start number 103 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A1:

- Start number 69 was manually annotated 1 time for cluster A1.
- Start number 82 was manually annotated 2 times for cluster A1.
- Start number 88 was manually annotated 199 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 98 was manually annotated 12 times for cluster A10.
- Start number 105 was manually annotated 3 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 93 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 104 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:

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

Info for manual annotations of cluster A16:

- Start number 100 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 96 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:

- Start number 65 was manually annotated 2 times for cluster A2.
- Start number 68 was manually annotated 3 times for cluster A2.
- Start number 71 was manually annotated 8 times for cluster A2.
- Start number 73 was manually annotated 13 times for cluster A2.
- Start number 76 was manually annotated 40 times for cluster A2.
- Start number 77 was manually annotated 3 times for cluster A2.
- Start number 81 was manually annotated 1 time for cluster A2.
- Start number 84 was manually annotated 1 time for cluster A2.
- Start number 100 was manually annotated 1 time for cluster A2.
- Start number 103 was manually annotated 13 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 77 was manually annotated 2 times for cluster A3.
- Start number 103 was manually annotated 7 times for cluster A3.
- Start number 108 was manually annotated 96 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 51 was manually annotated 3 times for cluster A4.
- Start number 55 was manually annotated 1 time for cluster A4.
- Start number 67 was manually annotated 1 time for cluster A4.
- Start number 69 was manually annotated 4 times for cluster A4.

- Start number 71 was manually annotated 112 times for cluster A4.
- Start number 81 was manually annotated 1 time for cluster A4.
- Start number 107 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A5:

- Start number 86 was manually annotated 6 times for cluster A5.
- Start number 87 was manually annotated 8 times for cluster A5.
- Start number 89 was manually annotated 11 times for cluster A5.
- Start number 92 was manually annotated 2 times for cluster A5.
- Start number 97 was manually annotated 5 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 80 was manually annotated 4 times for cluster A6.
- Start number 107 was manually annotated 11 times for cluster A6.
- Start number 109 was manually annotated 3 times for cluster A6.
- Start number 113 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A7:

- Start number 59 was manually annotated 1 time for cluster A7.
- Start number 78 was manually annotated 1 time for cluster A7.
- Start number 103 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A9:

- Start number 100 was manually annotated 13 times for cluster A9.
- Start number 103 was manually annotated 1 time for cluster A9.
- Start number 113 was manually annotated 17 times for cluster A9.
- Start number 122 was manually annotated 2 times for cluster A9.

Info for manual annotations of cluster F1:

- Start number 88 was manually annotated 4 times for cluster F1.

Gene Information:

Gene: 20ES_85 Start: 47721, Stop: 47398, Start Num: 65

Candidate Starts for 20ES_85:

(Start: 65 @47721 has 2 MA's), (117, 47655), (140, 47613),

Gene: 40AC_78 Start: 47105, Stop: 46806, Start Num: 76

Candidate Starts for 40AC_78:

(Start: 76 @47105 has 40 MA's), (117, 47042), (134, 47018),

Gene: A6_70 Start: 44506, Stop: 44207, Start Num: 88

Candidate Starts for A6_70:

(Start: 88 @44506 has 203 MA's), (117, 44461), (118, 44458), (143, 44389), (151, 44338),

Gene: AFIS_73 Start: 47515, Stop: 47216, Start Num: 88

Candidate Starts for AFIS_73:

(Start: 69 @47545 has 5 MA's), (Start: 88 @47515 has 203 MA's), (117, 47470), (118, 47467), (143, 47398), (151, 47347),

Gene: AN3_83 Start: 45926, Stop: 45603, Start Num: 68

Candidate Starts for AN3_83:

(12, 46256), (14, 46229), (36, 46019), (Start: 68 @45926 has 3 MA's), (70, 45923), (110, 45875), (117, 45860), (140, 45818),

Gene: AN9_82 Start: 46132, Stop: 45854, Start Num: 103

Candidate Starts for AN9_82:

(Start: 103 @46132 has 23 MA's), (119, 46099), (121, 46093), (152, 45958),

Gene: ANI8_82 Start: 46132, Stop: 45854, Start Num: 103

Candidate Starts for ANI8_82:

(Start: 103 @46132 has 23 MA's), (119, 46099), (121, 46093), (152, 45958),

Gene: AbbyPaige_85 Start: 47978, Stop: 47670, Start Num: 73

Candidate Starts for AbbyPaige_85:

(Start: 73 @47978 has 13 MA's), (Start: 76 @47975 has 40 MA's), (110, 47927), (117, 47912), (155, 47753),

Gene: Abbyshoes_76 Start: 46768, Stop: 46469, Start Num: 88

Candidate Starts for Abbyshoes_76:

(Start: 69 @46798 has 5 MA's), (Start: 88 @46768 has 203 MA's), (117, 46723), (118, 46720), (143, 46651), (151, 46600),

Gene: Abdiel_74 Start: 45659, Stop: 45360, Start Num: 71

Candidate Starts for Abdiel_74:

(Start: 71 @45659 has 120 MA's), (Start: 109 @45617 has 7 MA's),

Gene: Abrogate_730 Start: 47383, Stop: 47084, Start Num: 88

Candidate Starts for Abrogate_730:

(Start: 88 @47383 has 203 MA's), (117, 47338), (118, 47335), (143, 47266), (151, 47215),

Gene: Acme_80 Start: 48839, Stop: 48540, Start Num: 88

Candidate Starts for Acme_80:

(Start: 69 @48869 has 5 MA's), (Start: 88 @48839 has 203 MA's), (117, 48794), (118, 48791), (143, 48722), (151, 48671),

Gene: Acolyte_77 Start: 46676, Stop: 46365, Start Num: 81

Candidate Starts for Acolyte_77:

(Start: 81 @46676 has 2 MA's),

Gene: Adahisdi_72 Start: 46838, Stop: 46539, Start Num: 88

Candidate Starts for Adahisdi_72:

(Start: 59 @46898 has 1 MA's), (Start: 88 @46838 has 203 MA's), (117, 46793), (118, 46790), (143, 46721), (151, 46670),

Gene: Aeneas_81 Start: 49127, Stop: 48828, Start Num: 88

Candidate Starts for Aeneas_81:

(Start: 69 @49157 has 5 MA's), (Start: 88 @49127 has 203 MA's), (117, 49082), (118, 49079), (143, 49010), (151, 48959),

Gene: Agaliana_74 Start: 45656, Stop: 45357, Start Num: 88

Candidate Starts for Agaliana_74:

(Start: 59 @45716 has 1 MA's), (Start: 88 @45656 has 203 MA's), (117, 45611), (118, 45608), (143, 45539), (151, 45488),

Gene: Agape74_85 Start: 47954, Stop: 47646, Start Num: 73

Candidate Starts for Agape74_85:

(Start: 73 @47954 has 13 MA's), (Start: 76 @47951 has 40 MA's), (117, 47888), (155, 47729),

Gene: AgentM_70 Start: 44113, Stop: 43817, Start Num: 89

Candidate Starts for AgentM_70:

(Start: 89 @44113 has 11 MA's), (102, 44092),

Gene: Aglet_81 Start: 45628, Stop: 45365, Start Num: 108

Candidate Starts for Aglet_81:

(Start: 68 @45691 has 3 MA's), (Start: 77 @45673 has 5 MA's), (Start: 108 @45628 has 96 MA's), (118, 45607),

Gene: Airmid_73 Start: 44940, Stop: 44644, Start Num: 92

Candidate Starts for Airmid_73:

(Start: 92 @44940 has 2 MA's), (Start: 97 @44928 has 5 MA's), (148, 44796), (151, 44772),

Gene: Ajay_73 Start: 46039, Stop: 45740, Start Num: 88

Candidate Starts for Ajay_73:

(Start: 59 @46099 has 1 MA's), (Start: 88 @46039 has 203 MA's), (117, 45994), (118, 45991), (143, 45922), (151, 45871),

Gene: Albee_75 Start: 45647, Stop: 45348, Start Num: 71

Candidate Starts for Albee_75:

(Start: 71 @45647 has 120 MA's), (Start: 109 @45605 has 7 MA's),

Gene: Alberto7_76 Start: 45984, Stop: 45685, Start Num: 71

Candidate Starts for Alberto7_76:

(Start: 71 @45984 has 120 MA's), (Start: 109 @45942 has 7 MA's),

Gene: Aliter_80 Start: 45087, Stop: 44821, Start Num: 113

Candidate Starts for Aliter_80:

(Start: 100 @45105 has 17 MA's), (Start: 113 @45087 has 18 MA's), (121, 45066), (148, 44970),

Gene: Alma_85 Start: 47927, Stop: 47664, Start Num: 113

Candidate Starts for Alma_85:

(Start: 100 @47945 has 17 MA's), (Start: 113 @47927 has 18 MA's), (121, 47906), (148, 47810),

Gene: Alsfro_83 Start: 47402, Stop: 47103, Start Num: 88

Candidate Starts for Alsfro_83:

(Start: 59 @47462 has 1 MA's), (Start: 88 @47402 has 203 MA's), (117, 47357), (118, 47354), (143, 47285), (151, 47234),

Gene: Altman_79 Start: 47847, Stop: 47548, Start Num: 88

Candidate Starts for Altman_79:

(Start: 82 @47853 has 2 MA's), (Start: 88 @47847 has 203 MA's), (117, 47802), (118, 47799), (143, 47730), (151, 47679),

Gene: Alvin_74 Start: 46259, Stop: 45960, Start Num: 88

Candidate Starts for Alvin_74:

(Start: 59 @46319 has 1 MA's), (Start: 88 @46259 has 203 MA's), (117, 46214), (118, 46211), (143, 46142), (151, 46091),

Gene: Aneem_85 Start: 46838, Stop: 46542, Start Num: 93
Candidate Starts for Aneem_85:
(Start: 93 @46838 has 24 MA's), (99, 46829), (101, 46826), (118, 46799), (121, 46790), (148, 46700),

Gene: Anglerfish_78 Start: 48170, Stop: 47871, Start Num: 88
Candidate Starts for Anglerfish_78:
(Start: 59 @48230 has 1 MA's), (Start: 88 @48170 has 203 MA's), (117, 48125), (118, 48122), (143, 48053), (151, 48002),

Gene: AnnaL29_85 Start: 48114, Stop: 47815, Start Num: 76
Candidate Starts for AnnaL29_85:
(Start: 76 @48114 has 40 MA's), (85, 48102), (Start: 88 @48099 has 203 MA's), (91, 48096), (106, 48075), (117, 48054),

Gene: Annyong_74 Start: 45692, Stop: 45393, Start Num: 71
Candidate Starts for Annyong_74:
(Start: 71 @45692 has 120 MA's), (Start: 109 @45650 has 7 MA's),

Gene: Anselm_84 Start: 47862, Stop: 47560, Start Num: 76
Candidate Starts for Anselm_84:
(Start: 76 @47862 has 40 MA's), (106, 47823), (110, 47817), (155, 47643),

Gene: Anubis_84 Start: 45514, Stop: 45251, Start Num: 108
Candidate Starts for Anubis_84:
(Start: 68 @45577 has 3 MA's), (Start: 77 @45559 has 5 MA's), (Start: 108 @45514 has 96 MA's), (118, 45493),

Gene: Applejack_75 Start: 45021, Stop: 44722, Start Num: 88
Candidate Starts for Applejack_75:
(21, 45228), (24, 45201), (32, 45159), (34, 45156), (39, 45129), (43, 45117), (47, 45108), (52, 45093), (Start: 73 @45039 has 13 MA's), (Start: 88 @45021 has 203 MA's), (117, 44976), (118, 44973), (143, 44904), (151, 44853),

Gene: Aragog_70 Start: 44131, Stop: 43835, Start Num: 89
Candidate Starts for Aragog_70:
(Start: 89 @44131 has 11 MA's), (102, 44110), (152, 43951),

Gene: Arcanine_80 Start: 48772, Stop: 48473, Start Num: 88
Candidate Starts for Arcanine_80:
(Start: 59 @48832 has 1 MA's), (Start: 88 @48772 has 203 MA's), (117, 48727), (118, 48724), (143, 48655), (151, 48604),

Gene: ArcherNM_78 Start: 47236, Stop: 46946, Start Num: 84
Candidate Starts for ArcherNM_78:
(Start: 84 @47236 has 1 MA's), (Start: 103 @47215 has 23 MA's), (Start: 105 @47212 has 3 MA's),

Gene: Archetta_68 Start: 44079, Stop: 43762, Start Num: 87
Candidate Starts for Archetta_68:
(56, 44151), (74, 44100), (79, 44091), (Start: 87 @44079 has 8 MA's), (Start: 92 @44073 has 2 MA's), (114, 44037), (119, 44025),

Gene: Arissanae_82 Start: 47825, Stop: 47556, Start Num: 100

Candidate Starts for Arissanae_82:

(Start: 100 @47825 has 17 MA's), (Start: 113 @47807 has 18 MA's), (121, 47786), (Start: 122 @47783 has 2 MA's), (149, 47687),

Gene: Arlo_76 Start: 47562, Stop: 47263, Start Num: 88

Candidate Starts for Arlo_76:

(Start: 69 @47592 has 5 MA's), (Start: 88 @47562 has 203 MA's), (117, 47517), (118, 47514), (143, 47445), (151, 47394),

Gene: Artemis2UCLA_83 Start: 45479, Stop: 45216, Start Num: 107

Candidate Starts for Artemis2UCLA_83:

(17, 45779), (22, 45722), (23, 45719), (28, 45674), (66, 45551), (Start: 107 @45479 has 12 MA's), (Start: 113 @45467 has 18 MA's), (116, 45461), (136, 45422),

Gene: Arturo_72 Start: 45775, Stop: 45476, Start Num: 71

Candidate Starts for Arturo_72:

(Start: 71 @45775 has 120 MA's), (Start: 109 @45733 has 7 MA's),

Gene: Ashballer_78 Start: 47615, Stop: 47316, Start Num: 88

Candidate Starts for Ashballer_78:

(Start: 88 @47615 has 203 MA's), (117, 47570), (118, 47567), (143, 47498), (146, 47486), (151, 47447),

Gene: Atkinbua_82 Start: 48174, Stop: 47875, Start Num: 88

Candidate Starts for Atkinbua_82:

(Start: 82 @48180 has 2 MA's), (Start: 88 @48174 has 203 MA's), (117, 48129), (118, 48126), (143, 48057), (151, 48006),

Gene: AugsMagnumOpus_83 Start: 45616, Stop: 45353, Start Num: 108

Candidate Starts for AugsMagnumOpus_83:

(Start: 68 @45679 has 3 MA's), (Start: 77 @45661 has 5 MA's), (Start: 108 @45616 has 96 MA's),

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

Candidate Starts for AvatarAhPeg_74:

(Start: 69 @45580 has 5 MA's), (Start: 107 @45559 has 12 MA's), (115, 45541), (143, 45472), (153, 45373),

Gene: Avle17_75 Start: 45641, Stop: 45342, Start Num: 71

Candidate Starts for Avle17_75:

(Start: 71 @45641 has 120 MA's), (Start: 109 @45599 has 7 MA's),

Gene: B1_69 Start: 43846, Stop: 43562, Start Num: 108

Candidate Starts for B1_69:

(Start: 89 @43867 has 11 MA's), (Start: 103 @43849 has 23 MA's), (Start: 108 @43846 has 96 MA's), (148, 43726), (154, 43642),

Gene: BK1_70 Start: 44506, Stop: 44207, Start Num: 88

Candidate Starts for BK1_70:

(Start: 88 @44506 has 203 MA's), (117, 44461), (118, 44458), (143, 44389), (151, 44338),

Gene: BPBiebs31_81 Start: 48674, Stop: 48375, Start Num: 88

Candidate Starts for BPBiebs31_81:

(Start: 69 @48704 has 5 MA's), (Start: 88 @48674 has 203 MA's), (117, 48629), (118, 48626), (143, 48557), (151, 48506),

Gene: Baby16_75 Start: 45658, Stop: 45359, Start Num: 71

Candidate Starts for Baby16_75:

(Start: 71 @45658 has 120 MA's), (Start: 109 @45616 has 7 MA's),

Gene: Bachome_82 Start: 45718, Stop: 45422, Start Num: 93

Candidate Starts for Bachome_82:

(Start: 93 @45718 has 24 MA's), (99, 45709), (118, 45679), (121, 45670), (148, 45580),

Gene: BaconJack_78 Start: 48829, Stop: 48530, Start Num: 88

Candidate Starts for BaconJack_78:

(Start: 69 @48859 has 5 MA's), (Start: 88 @48829 has 203 MA's), (117, 48784), (118, 48781), (143, 48712),

Gene: Bactobuster_74 Start: 46579, Stop: 46271, Start Num: 71

Candidate Starts for Bactobuster_74:

(Start: 71 @46579 has 120 MA's), (Start: 109 @46537 has 7 MA's), (135, 46477),

Gene: Baehexic_82 Start: 47345, Stop: 47034, Start Num: 76

Candidate Starts for Baehexic_82:

(Start: 76 @47345 has 40 MA's), (83, 47333), (106, 47303), (110, 47297), (117, 47282),

Gene: BangNhom_72 Start: 46084, Stop: 45785, Start Num: 71

Candidate Starts for BangNhom_72:

(Start: 71 @46084 has 120 MA's), (Start: 109 @46042 has 7 MA's),

Gene: Barriga_83 Start: 47568, Stop: 47269, Start Num: 88

Candidate Starts for Barriga_83:

(21, 47775), (24, 47748), (32, 47706), (34, 47703), (39, 47676), (43, 47664), (47, 47655), (52, 47640), (Start: 73 @47586 has 13 MA's), (Start: 88 @47568 has 203 MA's), (117, 47523), (118, 47520), (143, 47451), (151, 47400),

Gene: BarrowTuph_78 Start: 47875, Stop: 47576, Start Num: 88

Candidate Starts for BarrowTuph_78:

(Start: 69 @47905 has 5 MA's), (Start: 88 @47875 has 203 MA's), (117, 47830), (118, 47827), (143, 47758), (151, 47707),

Gene: Bartimeaus_75 Start: 45649, Stop: 45350, Start Num: 71

Candidate Starts for Bartimeaus_75:

(Start: 71 @45649 has 120 MA's), (Start: 109 @45607 has 7 MA's),

Gene: Batiatus_39 Start: 31386, Stop: 31150, Start Num: 88

Candidate Starts for Batiatus_39:

(Start: 88 @31386 has 203 MA's), (117, 31341), (118, 31338), (143, 31269), (151, 31218),

Gene: Beatrix_73 Start: 46834, Stop: 46535, Start Num: 88

Candidate Starts for Beatrix_73:

(Start: 59 @46894 has 1 MA's), (Start: 88 @46834 has 203 MA's), (117, 46789), (118, 46786), (143, 46717), (151, 46666),

Gene: Beauxregard13_79 Start: 45631, Stop: 45368, Start Num: 108

Candidate Starts for Beauxregard13_79:

(Start: 68 @45694 has 3 MA's), (Start: 77 @45676 has 5 MA's), (Start: 108 @45631 has 96 MA's), (118, 45610),

Gene: Beemo_87 Start: 47921, Stop: 47658, Start Num: 113

Candidate Starts for Beemo_87:

(Start: 100 @47939 has 17 MA's), (Start: 113 @47921 has 18 MA's), (121, 47900), (148, 47804),

Gene: BeesKnees_77 Start: 45937, Stop: 45638, Start Num: 88

Candidate Starts for BeesKnees_77:

(Start: 59 @45997 has 1 MA's), (Start: 88 @45937 has 203 MA's), (117, 45892), (118, 45889), (143, 45820), (151, 45769),

Gene: BellusTerra_76 Start: 45688, Stop: 45389, Start Num: 71

Candidate Starts for BellusTerra_76:

(Start: 71 @45688 has 120 MA's), (Start: 109 @45646 has 7 MA's),

Gene: Benedict_74 Start: 44660, Stop: 44376, Start Num: 97

Candidate Starts for Benedict_74:

(Start: 92 @44672 has 2 MA's), (Start: 97 @44660 has 5 MA's), (115, 44633), (148, 44528), (151, 44504),

Gene: BengiVuitton_85 Start: 47823, Stop: 47497, Start Num: 68

Candidate Starts for BengiVuitton_85:

(Start: 65 @47826 has 2 MA's), (Start: 68 @47823 has 3 MA's), (Start: 88 @47802 has 203 MA's), (110, 47772), (117, 47757), (140, 47715),

Gene: Benvolio_82 Start: 47539, Stop: 47231, Start Num: 73

Candidate Starts for Benvolio_82:

(8, 48016), (11, 47887), (19, 47737), (38, 47632), (Start: 73 @47539 has 13 MA's), (Start: 76 @47536 has 40 MA's), (106, 47494), (110, 47488), (155, 47314),

Gene: Bethlehem_79 Start: 49714, Stop: 49415, Start Num: 88

Candidate Starts for Bethlehem_79:

(Start: 69 @49744 has 5 MA's), (Start: 88 @49714 has 203 MA's), (117, 49669), (118, 49666), (143, 49597), (151, 49546),

Gene: Bexan_71 Start: 46608, Stop: 46309, Start Num: 88

Candidate Starts for Bexan_71:

(Start: 59 @46668 has 1 MA's), (Start: 88 @46608 has 203 MA's), (117, 46563), (118, 46560), (143, 46491), (151, 46440),

Gene: BiancaTri92_81 Start: 47402, Stop: 47094, Start Num: 73

Candidate Starts for BiancaTri92_81:

(40, 47492), (Start: 73 @47402 has 13 MA's), (Start: 76 @47399 has 40 MA's), (106, 47357), (117, 47336),

Gene: Big3_77 Start: 48641, Stop: 48342, Start Num: 88

Candidate Starts for Big3_77:

(Start: 73 @48659 has 13 MA's), (Start: 88 @48641 has 203 MA's), (117, 48596), (118, 48593), (143, 48524), (151, 48473),

Gene: BigMau_79 Start: 48424, Stop: 48125, Start Num: 88

Candidate Starts for BigMau_79:

(Start: 59 @48484 has 1 MA's), (Start: 88 @48424 has 203 MA's), (117, 48379), (118, 48376), (143, 48307), (151, 48256),

Gene: BigPaolini_74 Start: 45813, Stop: 45508, Start Num: 82

Candidate Starts for BigPaolini_74:

(Start: 82 @45813 has 2 MA's), (Start: 88 @45807 has 203 MA's), (117, 45762), (118, 45759), (143, 45690), (151, 45639),

Gene: Bigchungj_76 Start: 48249, Stop: 47950, Start Num: 88

Candidate Starts for Bigchungj_76:

(Start: 59 @48309 has 1 MA's), (Start: 88 @48249 has 203 MA's), (117, 48204), (118, 48201), (143, 48132), (151, 48081),

Gene: Bigflo_77 Start: 45627, Stop: 45364, Start Num: 108

Candidate Starts for Bigflo_77:

(Start: 68 @45690 has 3 MA's), (Start: 77 @45672 has 5 MA's), (Start: 108 @45627 has 96 MA's), (118, 45606),

Gene: Bigfoot_71 Start: 46904, Stop: 46605, Start Num: 88

Candidate Starts for Bigfoot_71:

(Start: 59 @46964 has 1 MA's), (Start: 88 @46904 has 203 MA's), (117, 46859), (118, 46856), (143, 46787), (151, 46736),

Gene: BillKnuckles_70 Start: 46811, Stop: 46512, Start Num: 88

Candidate Starts for BillKnuckles_70:

(Start: 59 @46871 has 1 MA's), (Start: 88 @46811 has 203 MA's), (117, 46766), (118, 46763), (143, 46694), (151, 46643),

Gene: Bircsak_77 Start: 49499, Stop: 49200, Start Num: 88

Candidate Starts for Bircsak_77:

(Start: 59 @49559 has 1 MA's), (Start: 88 @49499 has 203 MA's), (117, 49454), (118, 49451), (143, 49382), (151, 49331),

Gene: Blackmoor_74 Start: 45649, Stop: 45350, Start Num: 71

Candidate Starts for Blackmoor_74:

(Start: 71 @45649 has 120 MA's), (Start: 109 @45607 has 7 MA's),

Gene: BlessJoy_83 Start: 46000, Stop: 45737, Start Num: 107

Candidate Starts for BlessJoy_83:

(17, 46300), (22, 46243), (23, 46240), (28, 46195), (66, 46072), (Start: 107 @46000 has 12 MA's), (Start: 113 @45988 has 18 MA's), (116, 45982), (136, 45943),

Gene: BluSpix_74 Start: 42363, Stop: 42064, Start Num: 88

Candidate Starts for BluSpix_74:

(Start: 69 @42393 has 5 MA's), (Start: 88 @42363 has 203 MA's), (117, 42318), (118, 42315), (143, 42246), (151, 42195),

Gene: Blue_73 Start: 46715, Stop: 46416, Start Num: 88

Candidate Starts for Blue_73:

(Start: 59 @46775 has 1 MA's), (Start: 88 @46715 has 203 MA's), (117, 46670), (118, 46667), (143, 46598), (151, 46547),

Gene: Blue7_85 Start: 45698, Stop: 45435, Start Num: 107
Candidate Starts for Blue7_85:
(17, 45998), (22, 45941), (23, 45938), (28, 45893), (66, 45770), (Start: 107 @45698 has 12 MA's),
(Start: 113 @45686 has 18 MA's), (116, 45680), (136, 45641),

Gene: BlueBird_81 Start: 46036, Stop: 45764, Start Num: 108
Candidate Starts for BlueBird_81:
(Start: 108 @46036 has 96 MA's),

Gene: Bluefalcon_66 Start: 44078, Stop: 43782, Start Num: 87
Candidate Starts for Bluefalcon_66:
(56, 44150), (74, 44099), (79, 44090), (Start: 87 @44078 has 8 MA's), (Start: 92 @44072 has 2 MA's),
(114, 44036), (119, 44024),

Gene: Bob3_77 Start: 47691, Stop: 47392, Start Num: 88
Candidate Starts for Bob3_77:
(Start: 59 @47751 has 1 MA's), (Start: 88 @47691 has 203 MA's), (117, 47646), (118, 47643), (143,
47574), (151, 47523),

Gene: BobSwaget_77 Start: 45351, Stop: 45037, Start Num: 71
Candidate Starts for BobSwaget_77:
(Start: 71 @45351 has 120 MA's), (Start: 96 @45324 has 1 MA's), (Start: 104 @45315 has 5 MA's),

Gene: BogosyJay_86 Start: 47989, Stop: 47711, Start Num: 100
Candidate Starts for BogosyJay_86:
(Start: 100 @47989 has 17 MA's), (121, 47950),

Gene: Bombshell_75 Start: 45644, Stop: 45345, Start Num: 71
Candidate Starts for Bombshell_75:
(Start: 71 @45644 has 120 MA's), (Start: 109 @45602 has 7 MA's),

Gene: Bonamassa_70 Start: 44301, Stop: 43999, Start Num: 86
Candidate Starts for Bonamassa_70:
(Start: 86 @44301 has 6 MA's), (102, 44274), (Start: 109 @44268 has 7 MA's), (152, 44115),

Gene: Bones_72 Start: 46997, Stop: 46698, Start Num: 88
Candidate Starts for Bones_72:
(Start: 59 @47057 has 1 MA's), (Start: 88 @46997 has 203 MA's), (117, 46952), (118, 46949), (143,
46880), (151, 46829),

Gene: Bowtie_81 Start: 45445, Stop: 45149, Start Num: 93
Candidate Starts for Bowtie_81:
(Start: 93 @45445 has 24 MA's), (99, 45436), (101, 45433), (118, 45406), (121, 45397), (148, 45307),

Gene: Bradman_86 Start: 46814, Stop: 46539, Start Num: 103
Candidate Starts for Bradman_86:
(20, 47063), (Start: 103 @46814 has 23 MA's), (114, 46793), (119, 46781),

Gene: BreSam8_80 Start: 45666, Stop: 45358, Start Num: 77
Candidate Starts for BreSam8_80:
(Start: 68 @45684 has 3 MA's), (Start: 77 @45666 has 5 MA's), (Start: 108 @45621 has 96 MA's),

Gene: Briton15_79 Start: 48077, Stop: 47778, Start Num: 88

Candidate Starts for Briton15_79:

(Start: 59 @48137 has 1 MA's), (Start: 88 @48077 has 203 MA's), (117, 48032), (118, 48029), (143, 47960), (151, 47909),

Gene: Broseidon_75 Start: 45650, Stop: 45351, Start Num: 71

Candidate Starts for Broseidon_75:

(Start: 71 @45650 has 120 MA's), (Start: 109 @45608 has 7 MA's),

Gene: Bruiser_74 Start: 45647, Stop: 45348, Start Num: 71

Candidate Starts for Bruiser_74:

(Start: 71 @45647 has 120 MA's), (Start: 109 @45605 has 7 MA's),

Gene: Bruns_79 Start: 46940, Stop: 46641, Start Num: 88

Candidate Starts for Bruns_79:

(Start: 59 @47000 has 1 MA's), (Start: 88 @46940 has 203 MA's), (117, 46895), (118, 46892), (143, 46823), (151, 46772),

Gene: BubbleTrouble_74 Start: 45674, Stop: 45375, Start Num: 71

Candidate Starts for BubbleTrouble_74:

(Start: 71 @45674 has 120 MA's), (Start: 109 @45632 has 7 MA's),

Gene: Bud_79 Start: 45275, Stop: 44979, Start Num: 93

Candidate Starts for Bud_79:

(Start: 93 @45275 has 24 MA's), (99, 45266), (101, 45263), (118, 45236), (121, 45227), (148, 45137),

Gene: Bugatti_79 Start: 46036, Stop: 45764, Start Num: 108

Candidate Starts for Bugatti_79:

(Start: 108 @46036 has 96 MA's),

Gene: Burger_73 Start: 45647, Stop: 45348, Start Num: 71

Candidate Starts for Burger_73:

(Start: 71 @45647 has 120 MA's), (Start: 109 @45605 has 7 MA's),

Gene: Burton_77 Start: 49106, Stop: 48807, Start Num: 88

Candidate Starts for Burton_77:

(Start: 69 @49136 has 5 MA's), (Start: 88 @49106 has 203 MA's), (117, 49061), (118, 49058), (143, 48989), (151, 48938),

Gene: Buttons_73 Start: 45207, Stop: 44908, Start Num: 88

Candidate Starts for Buttons_73:

(Start: 88 @45207 has 203 MA's), (117, 45162), (118, 45159), (143, 45090), (151, 45039),

Gene: BuzzBuzz_74 Start: 45656, Stop: 45393, Start Num: 108

Candidate Starts for BuzzBuzz_74:

(Start: 68 @45719 has 3 MA's), (Start: 77 @45701 has 5 MA's), (Start: 108 @45656 has 96 MA's), (118, 45635),

Gene: Bxb1_70 Start: 45323, Stop: 45024, Start Num: 88

Candidate Starts for Bxb1_70:

(Start: 88 @45323 has 203 MA's), (117, 45278), (118, 45275), (143, 45206), (151, 45155),

Gene: Bxz2_75 Start: 45663, Stop: 45400, Start Num: 108

Candidate Starts for Bxz2_75:

(Start: 68 @45726 has 3 MA's), (Start: 77 @45708 has 5 MA's), (Start: 108 @45663 has 96 MA's), (118, 45642),

Gene: C3_75 Start: 46132, Stop: 45854, Start Num: 103
Candidate Starts for C3_75:
(Start: 103 @46132 has 23 MA's), (119, 46099), (121, 46093), (152, 45958),

Gene: CRB1_84 Start: 47974, Stop: 47651, Start Num: 65
Candidate Starts for CRB1_84:
(Start: 65 @47974 has 2 MA's), (117, 47908), (140, 47866),

Gene: CactusRose_79 Start: 47921, Stop: 47622, Start Num: 88
Candidate Starts for CactusRose_79:
(Start: 59 @47981 has 1 MA's), (Start: 88 @47921 has 203 MA's), (117, 47876), (118, 47873), (143, 47804), (151, 47753),

Gene: Caelakin_73 Start: 45647, Stop: 45348, Start Num: 71
Candidate Starts for Caelakin_73:
(Start: 71 @45647 has 120 MA's), (Start: 109 @45605 has 7 MA's),

Gene: Calvinny_77 Start: 45439, Stop: 45176, Start Num: 108
Candidate Starts for Calvinny_77:
(Start: 68 @45502 has 3 MA's), (Start: 77 @45484 has 5 MA's), (Start: 108 @45439 has 96 MA's), (118, 45418),

Gene: Camperdownii_73 Start: 45334, Stop: 45020, Start Num: 51
Candidate Starts for Camperdownii_73:
(50, 45337), (Start: 51 @45334 has 3 MA's), (60, 45316), (62, 45313), (115, 45271), (135, 45232),

Gene: Carlyle_77 Start: 46395, Stop: 46096, Start Num: 88
Candidate Starts for Carlyle_77:
(Start: 59 @46455 has 1 MA's), (Start: 88 @46395 has 203 MA's), (117, 46350), (118, 46347), (143, 46278), (151, 46227),

Gene: Catalina_89 Start: 48034, Stop: 47768, Start Num: 113
Candidate Starts for Catalina_89:
(Start: 100 @48052 has 17 MA's), (Start: 113 @48034 has 18 MA's), (121, 48013), (148, 47917),

Gene: Centaur_83 Start: 47223, Stop: 46912, Start Num: 76
Candidate Starts for Centaur_83:
(Start: 76 @47223 has 40 MA's), (83, 47211), (106, 47181), (110, 47175), (117, 47160),

Gene: CentreCat_75 Start: 45687, Stop: 45388, Start Num: 71
Candidate Starts for CentreCat_75:
(Start: 71 @45687 has 120 MA's), (Start: 109 @45645 has 7 MA's),

Gene: Cerulean_77 Start: 46085, Stop: 45786, Start Num: 71
Candidate Starts for Cerulean_77:
(Start: 71 @46085 has 120 MA's), (Start: 109 @46043 has 7 MA's),

Gene: Chadwick_74 Start: 44404, Stop: 44120, Start Num: 97
Candidate Starts for Chadwick_74:

(Start: 92 @44416 has 2 MA's), (Start: 97 @44404 has 5 MA's), (115, 44377), (148, 44272), (151, 44248),

Gene: ChampagnePapi_78 Start: 46087, Stop: 45785, Start Num: 71

Candidate Starts for ChampagnePapi_78:

(Start: 71 @46087 has 120 MA's), (Start: 109 @46045 has 7 MA's), (144, 45967),

Gene: Chanagan_73 Start: 45356, Stop: 45057, Start Num: 88

Candidate Starts for Chanagan_73:

(Start: 59 @45416 has 1 MA's), (Start: 88 @45356 has 203 MA's), (117, 45311), (118, 45308), (143, 45239), (151, 45188),

Gene: Changeling_82 Start: 47917, Stop: 47612, Start Num: 76

Candidate Starts for Changeling_82:

(Start: 76 @47917 has 40 MA's), (85, 47905), (Start: 88 @47902 has 203 MA's), (91, 47899), (106, 47878), (117, 47857),

Gene: Chaph_75 Start: 45658, Stop: 45359, Start Num: 71

Candidate Starts for Chaph_75:

(Start: 71 @45658 has 120 MA's), (Start: 109 @45616 has 7 MA's),

Gene: Chargerpower_83 Start: 45994, Stop: 45686, Start Num: 103

Candidate Starts for Chargerpower_83:

(20, 46240), (Start: 103 @45994 has 23 MA's), (123, 45949), (125, 45946), (148, 45856),

Gene: Charm_82 Start: 47297, Stop: 47064, Start Num: 122

Candidate Starts for Charm_82:

(20, 47579), (Start: 100 @47333 has 17 MA's), (Start: 122 @47297 has 2 MA's),

Gene: Chartreuse_80 Start: 44847, Stop: 44611, Start Num: 114

Candidate Starts for Chartreuse_80:

(29, 45045), (37, 45015), (61, 44949), (63, 44943), (Start: 80 @44901 has 4 MA's), (Start: 109 @44859 has 7 MA's), (110, 44856), (Start: 113 @44850 has 18 MA's), (114, 44847), (118, 44838), (144, 44781),

Gene: ChipMunk_84 Start: 48884, Stop: 48579, Start Num: 76

Candidate Starts for ChipMunk_84:

(Start: 76 @48884 has 40 MA's), (106, 48845), (110, 48839), (155, 48665),

Gene: Chupacabra_80 Start: 48379, Stop: 48086, Start Num: 98

Candidate Starts for Chupacabra_80:

(13, 48739), (18, 48643), (Start: 98 @48379 has 12 MA's), (129, 48325),

Gene: Ciao_73 Start: 45516, Stop: 45217, Start Num: 88

Candidate Starts for Ciao_73:

(Start: 59 @45576 has 1 MA's), (Start: 88 @45516 has 203 MA's), (117, 45471), (118, 45468), (143, 45399), (151, 45348),

Gene: Cindaradix_70 Start: 45542, Stop: 45246, Start Num: 69

Candidate Starts for Cindaradix_70:

(Start: 69 @45542 has 5 MA's), (Start: 107 @45521 has 12 MA's), (115, 45503),

Gene: Cintron_76 Start: 45786, Stop: 45499, Start Num: 81

Candidate Starts for Cintron_76:
(17, 46035), (35, 45912), (64, 45819), (Start: 67 @45804 has 1 MA's), (Start: 69 @45801 has 5 MA's),
(Start: 81 @45786 has 2 MA's),

Gene: Citius_75 Start: 45668, Stop: 45369, Start Num: 71
Candidate Starts for Citius_75:
(Start: 71 @45668 has 120 MA's), (Start: 109 @45626 has 7 MA's),

Gene: Clarenza_74 Start: 45644, Stop: 45345, Start Num: 71
Candidate Starts for Clarenza_74:
(Start: 71 @45644 has 120 MA's), (Start: 109 @45602 has 7 MA's),

Gene: Cocoaberry_75 Start: 45648, Stop: 45349, Start Num: 71
Candidate Starts for Cocoaberry_75:
(Start: 71 @45648 has 120 MA's), (Start: 109 @45606 has 7 MA's),

Gene: Colbster_76 Start: 45631, Stop: 45368, Start Num: 108
Candidate Starts for Colbster_76:
(Start: 68 @45694 has 3 MA's), (Start: 77 @45676 has 5 MA's), (Start: 108 @45631 has 96 MA's),
(118, 45610),

Gene: Colin_82 Start: 48298, Stop: 47996, Start Num: 76
Candidate Starts for Colin_82:
(Start: 76 @48298 has 40 MA's),

Gene: Commander_73 Start: 45645, Stop: 45346, Start Num: 71
Candidate Starts for Commander_73:
(Start: 71 @45645 has 120 MA's), (Start: 109 @45603 has 7 MA's),

Gene: ConceptII_81 Start: 48948, Stop: 48649, Start Num: 88
Candidate Starts for ConceptII_81:
(Start: 82 @48954 has 2 MA's), (Start: 88 @48948 has 203 MA's), (117, 48903), (118, 48900), (143,
48831), (151, 48780),

Gene: Connomayer_75 Start: 45647, Stop: 45348, Start Num: 71
Candidate Starts for Connomayer_75:
(Start: 71 @45647 has 120 MA's), (Start: 109 @45605 has 7 MA's),

Gene: Conquerage_85 Start: 47696, Stop: 47433, Start Num: 113
Candidate Starts for Conquerage_85:
(Start: 100 @47714 has 17 MA's), (Start: 113 @47696 has 18 MA's), (121, 47675), (148, 47579),

Gene: Conspiracy_71 Start: 44353, Stop: 44057, Start Num: 89
Candidate Starts for Conspiracy_71:
(Start: 89 @44353 has 11 MA's), (102, 44332), (152, 44173),

Gene: Coog_67 Start: 44122, Stop: 43820, Start Num: 86
Candidate Starts for Coog_67:
(Start: 86 @44122 has 6 MA's), (117, 44071), (118, 44068), (150, 43960), (152, 43936),

Gene: Corvo_78 Start: 48597, Stop: 48298, Start Num: 88
Candidate Starts for Corvo_78:

(Start: 69 @48627 has 5 MA's), (Start: 88 @48597 has 203 MA's), (117, 48552), (118, 48549), (143, 48480), (151, 48429),

Gene: Crispicious1_71 Start: 45038, Stop: 44739, Start Num: 88

Candidate Starts for Crispicious1_71:

(Start: 59 @45098 has 1 MA's), (Start: 88 @45038 has 203 MA's), (117, 44993), (118, 44990), (143, 44921), (151, 44870),

Gene: Crucio_83 Start: 47825, Stop: 47466, Start Num: 76

Candidate Starts for Crucio_83:

(Start: 76 @47825 has 40 MA's), (110, 47777), (117, 47762), (156, 47552),

Gene: Cuco_69 Start: 43982, Stop: 43680, Start Num: 86

Candidate Starts for Cuco_69:

(Start: 86 @43982 has 6 MA's), (117, 43931), (118, 43928), (150, 43820), (152, 43796),

Gene: Cullens_81 Start: 45630, Stop: 45367, Start Num: 108

Candidate Starts for Cullens_81:

(Start: 68 @45693 has 3 MA's), (Start: 77 @45675 has 5 MA's), (Start: 108 @45630 has 96 MA's), (118, 45609),

Gene: DBQu4n_83 Start: 47177, Stop: 46899, Start Num: 103

Candidate Starts for DBQu4n_83:

(Start: 103 @47177 has 23 MA's), (119, 47144), (121, 47138), (152, 47003),

Gene: DD5_74 Start: 47123, Stop: 46824, Start Num: 88

Candidate Starts for DD5_74:

(Start: 59 @47183 has 1 MA's), (Start: 88 @47123 has 203 MA's), (117, 47078), (118, 47075), (143, 47006), (151, 46955),

Gene: DaHudson_79 Start: 45620, Stop: 45357, Start Num: 108

Candidate Starts for DaHudson_79:

(Start: 68 @45683 has 3 MA's), (Start: 77 @45665 has 5 MA's), (Start: 108 @45620 has 96 MA's),

Gene: Daishi_79 Start: 44497, Stop: 44234, Start Num: 108

Candidate Starts for Daishi_79:

(Start: 68 @44560 has 3 MA's), (Start: 77 @44542 has 5 MA's), (Start: 108 @44497 has 96 MA's), (118, 44476),

Gene: Dalmatian_83 Start: 47647, Stop: 47291, Start Num: 76

Candidate Starts for Dalmatian_83:

(Start: 76 @47647 has 40 MA's), (110, 47602), (117, 47587), (156, 47377),

Gene: Darrell_85 Start: 47142, Stop: 46864, Start Num: 100

Candidate Starts for Darrell_85:

(Start: 100 @47142 has 17 MA's), (Start: 113 @47124 has 18 MA's), (121, 47103),

Gene: DARTHPhader_78 Start: 46974, Stop: 46699, Start Num: 104

Candidate Starts for DARTHPhader_78:

(42, 47103), (54, 47070), (58, 47061), (Start: 104 @46974 has 5 MA's), (115, 46953), (124, 46929), (131, 46917),

Gene: Deano_72 Start: 45655, Stop: 45356, Start Num: 71

Candidate Starts for Deano_72:

(Start: 71 @45655 has 120 MA's), (Start: 109 @45613 has 7 MA's),

Gene: Deloris_85 Start: 47519, Stop: 47190, Start Num: 65

Candidate Starts for Deloris_85:

(Start: 65 @47519 has 2 MA's), (Start: 68 @47516 has 3 MA's), (Start: 88 @47495 has 203 MA's),
(110, 47465), (117, 47450), (140, 47408),

Gene: Dexes_77 Start: 49539, Stop: 49240, Start Num: 88

Candidate Starts for Dexes_77:

(21, 49746), (24, 49719), (32, 49677), (34, 49674), (39, 49647), (43, 49635), (47, 49626), (52, 49611),
(Start: 73 @49557 has 13 MA's), (Start: 88 @49539 has 203 MA's), (117, 49494), (118, 49491), (143,
49422), (151, 49371),

Gene: Dhanush_75 Start: 45650, Stop: 45351, Start Num: 71

Candidate Starts for Dhanush_75:

(Start: 71 @45650 has 120 MA's), (Start: 109 @45608 has 7 MA's),

Gene: Dieselweasel_81 Start: 45629, Stop: 45366, Start Num: 108

Candidate Starts for Dieselweasel_81:

(Start: 68 @45692 has 3 MA's), (Start: 77 @45674 has 5 MA's), (Start: 108 @45629 has 96 MA's),
(118, 45608),

Gene: Dignity_85 Start: 48061, Stop: 47753, Start Num: 73

Candidate Starts for Dignity_85:

(Start: 73 @48061 has 13 MA's), (Start: 76 @48058 has 40 MA's), (110, 48010), (117, 47995), (155,
47836),

Gene: DirtyDunning_74 Start: 45659, Stop: 45360, Start Num: 71

Candidate Starts for DirtyDunning_74:

(Start: 71 @45659 has 120 MA's), (Start: 109 @45617 has 7 MA's),

Gene: Discoknowium_68 Start: 43870, Stop: 43574, Start Num: 89

Candidate Starts for Discoknowium_68:

(Start: 89 @43870 has 11 MA's), (102, 43849), (152, 43690),

Gene: DontArgue_78 Start: 47236, Stop: 46952, Start Num: 98

Candidate Starts for DontArgue_78:

(Start: 98 @47236 has 12 MA's),

Gene: Doom_69 Start: 45750, Stop: 45451, Start Num: 88

Candidate Starts for Doom_69:

(Start: 82 @45756 has 2 MA's), (Start: 88 @45750 has 203 MA's), (117, 45705), (118, 45702), (143,
45633), (151, 45582),

Gene: DrFeelGood_72 Start: 45126, Stop: 44827, Start Num: 88

Candidate Starts for DrFeelGood_72:

(Start: 69 @45156 has 5 MA's), (Start: 88 @45126 has 203 MA's), (117, 45081), (118, 45078), (143,
45009), (151, 44958),

Gene: Drake55_84 Start: 47474, Stop: 47163, Start Num: 76

Candidate Starts for Drake55_84:

(Start: 76 @47474 has 40 MA's), (83, 47462), (106, 47432), (110, 47426), (117, 47411),

Gene: Drake94_80 Start: 47533, Stop: 47246, Start Num: 98

Candidate Starts for Drake94_80:

(1, 48340), (2, 48319), (3, 48307), (13, 47893), (18, 47797), (Start: 98 @47533 has 12 MA's), (111, 47518), (121, 47500),

Gene: DreamCatcher_80 Start: 47927, Stop: 47628, Start Num: 88

Candidate Starts for DreamCatcher_80:

(Start: 59 @47987 has 1 MA's), (Start: 88 @47927 has 203 MA's), (117, 47882), (118, 47879), (143, 47810), (151, 47759),

Gene: DreamTeam1_82 Start: 47145, Stop: 46912, Start Num: 122

Candidate Starts for DreamTeam1_82:

(20, 47427), (Start: 100 @47181 has 17 MA's), (Start: 122 @47145 has 2 MA's),

Gene: Dreamboat_76 Start: 45409, Stop: 45110, Start Num: 88

Candidate Starts for Dreamboat_76:

(Start: 59 @45469 has 1 MA's), (Start: 88 @45409 has 203 MA's), (117, 45364), (118, 45361), (143, 45292), (151, 45241),

Gene: DropBear_77 Start: 45965, Stop: 45681, Start Num: 108

Candidate Starts for DropBear_77:

(Start: 108 @45965 has 96 MA's), (154, 45761),

Gene: Druantia_74 Start: 45650, Stop: 45351, Start Num: 71

Candidate Starts for Druantia_74:

(Start: 71 @45650 has 120 MA's),

Gene: Dublin_70 Start: 44258, Stop: 43959, Start Num: 87

Candidate Starts for Dublin_70:

(79, 44270), (Start: 87 @44258 has 8 MA's), (Start: 92 @44252 has 2 MA's), (114, 44216), (119, 44204), (148, 44114), (152, 44075),

Gene: DudeLittle_81 Start: 47365, Stop: 47060, Start Num: 76

Candidate Starts for DudeLittle_81:

(Start: 76 @47365 has 40 MA's), (110, 47320), (117, 47305), (140, 47263), (155, 47146),

Gene: Dulcie_77 Start: 49203, Stop: 48904, Start Num: 88

Candidate Starts for Dulcie_77:

(Start: 69 @49233 has 5 MA's), (Start: 88 @49203 has 203 MA's), (117, 49158), (118, 49155), (143, 49086), (151, 49035),

Gene: Duplo_84 Start: 47234, Stop: 46956, Start Num: 103

Candidate Starts for Duplo_84:

(Start: 103 @47234 has 23 MA's), (119, 47201), (121, 47195), (152, 47060),

Gene: Dussy_75 Start: 46788, Stop: 46489, Start Num: 88

Candidate Starts for Dussy_75:

(Start: 69 @46818 has 5 MA's), (Start: 88 @46788 has 203 MA's), (117, 46743), (118, 46740), (143, 46671), (151, 46620),

Gene: DustyMartin_86 Start: 48631, Stop: 48341, Start Num: 98

Candidate Starts for DustyMartin_86:

(Start: 98 @48631 has 12 MA's),

Gene: Dynamix_76 Start: 45843, Stop: 45544, Start Num: 88

Candidate Starts for Dynamix_76:

(Start: 59 @45903 has 1 MA's), (Start: 88 @45843 has 203 MA's), (117, 45798), (118, 45795), (143, 45726), (151, 45675),

Gene: EZMoney23_79 Start: 46912, Stop: 46625, Start Num: 88

Candidate Starts for EZMoney23_79:

(16, 47167), (Start: 76 @46927 has 40 MA's), (Start: 88 @46912 has 203 MA's), (91, 46909), (106, 46888),

Gene: Eagle_74 Start: 45709, Stop: 45410, Start Num: 71

Candidate Starts for Eagle_74:

(Start: 71 @45709 has 120 MA's),

Gene: EagleEye_83 Start: 46835, Stop: 46572, Start Num: 100

Candidate Starts for EagleEye_83:

(7, 47399), (20, 47081), (Start: 100 @46835 has 17 MA's), (121, 46799), (Start: 122 @46796 has 2 MA's),

Gene: Eaglepride_86 Start: 48465, Stop: 48175, Start Num: 98

Candidate Starts for Eaglepride_86:

(Start: 98 @48465 has 12 MA's),

Gene: Eapen_75 Start: 45642, Stop: 45343, Start Num: 71

Candidate Starts for Eapen_75:

(41, 45714), (Start: 71 @45642 has 120 MA's), (Start: 109 @45600 has 7 MA's),

Gene: Ebony_84 Start: 46409, Stop: 46113, Start Num: 93

Candidate Starts for Ebony_84:

(Start: 93 @46409 has 24 MA's), (99, 46400), (118, 46370), (121, 46361), (148, 46271),

Gene: Echild_85 Start: 47560, Stop: 47255, Start Num: 76

Candidate Starts for Echild_85:

(8, 48040), (11, 47911), (19, 47761), (38, 47656), (Start: 73 @47563 has 13 MA's), (Start: 76 @47560 has 40 MA's), (106, 47518), (110, 47512), (155, 47338),

Gene: EdogawaKiddo_86 Start: 48016, Stop: 47735, Start Num: 100

Candidate Starts for EdogawaKiddo_86:

(Start: 100 @48016 has 17 MA's), (121, 47977), (148, 47881),

Gene: Edtherson_75 Start: 47019, Stop: 46720, Start Num: 88

Candidate Starts for Edtherson_75:

(Start: 59 @47079 has 1 MA's), (Start: 88 @47019 has 203 MA's), (117, 46974), (118, 46971), (143, 46902), (151, 46851),

Gene: Eidsmoe_85 Start: 47688, Stop: 47425, Start Num: 113

Candidate Starts for Eidsmoe_85:

(Start: 100 @47706 has 17 MA's), (Start: 113 @47688 has 18 MA's), (121, 47667), (148, 47571),

Gene: EITiger69_76 Start: 45331, Stop: 45047, Start Num: 97

Candidate Starts for EITiger69_76:

(Start: 92 @45343 has 2 MA's), (Start: 97 @45331 has 5 MA's), (115, 45304), (148, 45199), (151, 45175),

Gene: Elephantoon_87 Start: 47851, Stop: 47588, Start Num: 113

Candidate Starts for Elephantoon_87:

(Start: 100 @47869 has 17 MA's), (Start: 113 @47851 has 18 MA's), (121, 47830),

Gene: EmyBug_84 Start: 47708, Stop: 47427, Start Num: 100

Candidate Starts for EmyBug_84:

(Start: 100 @47708 has 17 MA's), (Start: 113 @47690 has 18 MA's), (121, 47669), (148, 47573),

Gene: EnzoK_76 Start: 45129, Stop: 44830, Start Num: 88

Candidate Starts for EnzoK_76:

(Start: 69 @45159 has 5 MA's), (Start: 88 @45129 has 203 MA's), (117, 45084), (118, 45081), (143, 45012), (151, 44961),

Gene: EpicPhail_81 Start: 45631, Stop: 45368, Start Num: 108

Candidate Starts for EpicPhail_81:

(Start: 68 @45694 has 3 MA's), (Start: 77 @45676 has 5 MA's), (Start: 108 @45631 has 96 MA's), (118, 45610),

Gene: Equemioh13_83 Start: 47452, Stop: 47141, Start Num: 76

Candidate Starts for Equemioh13_83:

(Start: 76 @47452 has 40 MA's), (83, 47440), (106, 47410), (110, 47404), (117, 47389),

Gene: EricB_82 Start: 45496, Stop: 45257, Start Num: 113

Candidate Starts for EricB_82:

(Start: 80 @45547 has 4 MA's), (Start: 109 @45505 has 7 MA's), (110, 45502), (Start: 113 @45496 has 18 MA's), (114, 45493), (118, 45484), (144, 45427),

Gene: Eris_74 Start: 45659, Stop: 45360, Start Num: 71

Candidate Starts for Eris_74:

(Start: 71 @45659 has 120 MA's), (Start: 109 @45617 has 7 MA's),

Gene: Eros_75 Start: 45649, Stop: 45350, Start Num: 71

Candidate Starts for Eros_75:

(Start: 71 @45649 has 120 MA's), (Start: 109 @45607 has 7 MA's),

Gene: Espresso_70 Start: 45691, Stop: 45392, Start Num: 88

Candidate Starts for Espresso_70:

(Start: 69 @45721 has 5 MA's), (Start: 88 @45691 has 203 MA's), (117, 45646), (118, 45643), (143, 45574), (151, 45523),

Gene: Et2Brutus_83 Start: 46372, Stop: 46076, Start Num: 93

Candidate Starts for Et2Brutus_83:

(Start: 93 @46372 has 24 MA's), (99, 46363), (118, 46333), (121, 46324), (148, 46234),

Gene: Euphoria_77 Start: 47608, Stop: 47309, Start Num: 88

Candidate Starts for Euphoria_77:

(Start: 69 @47638 has 5 MA's), (Start: 88 @47608 has 203 MA's), (117, 47563), (118, 47560), (143, 47491),

Gene: Eurydice_76 Start: 45684, Stop: 45385, Start Num: 71

Candidate Starts for Eurydice_76:
(Start: 71 @45684 has 120 MA's), (Start: 109 @45642 has 7 MA's),

Gene: EvilGenius_83 Start: 48885, Stop: 48580, Start Num: 76
Candidate Starts for EvilGenius_83:
(Start: 76 @48885 has 40 MA's), (106, 48846), (110, 48840), (155, 48666),

Gene: ExplosioNervosa_85 Start: 47756, Stop: 47493, Start Num: 113
Candidate Starts for ExplosioNervosa_85:
(Start: 100 @47774 has 17 MA's), (Start: 113 @47756 has 18 MA's), (121, 47735), (148, 47639),

Gene: Eyeball_75 Start: 46893, Stop: 46594, Start Num: 88
Candidate Starts for Eyeball_75:
(Start: 69 @46923 has 5 MA's), (Start: 88 @46893 has 203 MA's), (117, 46848), (118, 46845), (143, 46776), (151, 46725),

Gene: Fajezeel_79 Start: 48129, Stop: 47830, Start Num: 88
Candidate Starts for Fajezeel_79:
(Start: 69 @48159 has 5 MA's), (Start: 88 @48129 has 203 MA's), (117, 48084), (118, 48081), (143, 48012), (151, 47961),

Gene: Fameo_81 Start: 47377, Stop: 47072, Start Num: 76
Candidate Starts for Fameo_81:
(Start: 76 @47377 has 40 MA's), (110, 47332), (155, 47158),

Gene: Farber_80 Start: 45617, Stop: 45354, Start Num: 108
Candidate Starts for Farber_80:
(Start: 68 @45680 has 3 MA's), (Start: 77 @45662 has 5 MA's), (Start: 108 @45617 has 96 MA's), (118, 45596),

Gene: Fascinus_72 Start: 47417, Stop: 47118, Start Num: 88
Candidate Starts for Fascinus_72:
(Start: 59 @47477 has 1 MA's), (Start: 88 @47417 has 203 MA's), (117, 47372), (118, 47369), (143, 47300), (151, 47249),

Gene: Fayely_85 Start: 47682, Stop: 47401, Start Num: 100
Candidate Starts for Fayely_85:
(Start: 100 @47682 has 17 MA's), (Start: 113 @47664 has 18 MA's), (121, 47643), (148, 47547),

Gene: Fenn_79 Start: 47948, Stop: 47649, Start Num: 88
Candidate Starts for Fenn_79:
(Start: 59 @48008 has 1 MA's), (Start: 88 @47948 has 203 MA's), (117, 47903), (118, 47900), (143, 47831), (151, 47780),

Gene: Fernando_81 Start: 45630, Stop: 45367, Start Num: 108
Candidate Starts for Fernando_81:
(Start: 68 @45693 has 3 MA's), (Start: 77 @45675 has 5 MA's), (Start: 108 @45630 has 96 MA's), (118, 45609),

Gene: Fibonacci_83 Start: 46378, Stop: 46082, Start Num: 93
Candidate Starts for Fibonacci_83:
(Start: 93 @46378 has 24 MA's), (99, 46369), (118, 46339), (121, 46330), (148, 46240),

Gene: FiringLine_83 Start: 47765, Stop: 47457, Start Num: 76
Candidate Starts for FiringLine_83:
(Start: 76 @47765 has 40 MA's), (110, 47717), (117, 47702), (140, 47660), (155, 47543),

Gene: First_0084 Start: 47621, Stop: 47298, Start Num: 65
Candidate Starts for First_0084:
(Start: 65 @47621 has 2 MA's), (117, 47555), (140, 47513),

Gene: Flare16_83 Start: 47267, Stop: 46956, Start Num: 76
Candidate Starts for Flare16_83:
(Start: 76 @47267 has 40 MA's), (83, 47255), (106, 47225), (110, 47219), (117, 47204),

Gene: Flaverint_85 Start: 46836, Stop: 46540, Start Num: 93
Candidate Starts for Flaverint_85:
(Start: 93 @46836 has 24 MA's), (99, 46827), (101, 46824), (118, 46797), (121, 46788), (148, 46698),

Gene: Florean_75 Start: 45646, Stop: 45347, Start Num: 71
Candidate Starts for Florean_75:
(Start: 71 @45646 has 120 MA's), (Start: 109 @45604 has 7 MA's),

Gene: Flux_76 Start: 45645, Stop: 45346, Start Num: 71
Candidate Starts for Flux_76:
(Start: 71 @45645 has 120 MA's), (Start: 109 @45603 has 7 MA's),

Gene: FlyCatcher_78 Start: 49217, Stop: 48948, Start Num: 103
Candidate Starts for FlyCatcher_78:
(27, 49409), (31, 49391), (46, 49337), (48, 49334), (Start: 103 @49217 has 23 MA's), (110, 49205),
(118, 49187), (126, 49169), (130, 49163), (142, 49127), (148, 49088), (151, 49064),

Gene: ForGetIt_71 Start: 44378, Stop: 44082, Start Num: 89
Candidate Starts for ForGetIt_71:
(Start: 89 @44378 has 11 MA's), (102, 44357), (152, 44198),

Gene: Forsytheast_78 Start: 47631, Stop: 47332, Start Num: 88
Candidate Starts for Forsytheast_78:
(Start: 69 @47661 has 5 MA's), (Start: 88 @47631 has 203 MA's), (117, 47586), (118, 47583), (143,
47514), (151, 47463),

Gene: Francis47_78 Start: 49500, Stop: 49201, Start Num: 88
Candidate Starts for Francis47_78:
(Start: 59 @49560 has 1 MA's), (Start: 88 @49500 has 203 MA's), (117, 49455), (118, 49452), (143,
49383), (151, 49332),

Gene: Fred313_76 Start: 45666, Stop: 45382, Start Num: 108
Candidate Starts for Fred313_76:
(Start: 108 @45666 has 96 MA's), (154, 45462),

Gene: Fruitloop_38 Start: 31549, Stop: 31313, Start Num: 88
Candidate Starts for Fruitloop_38:
(Start: 88 @31549 has 203 MA's), (117, 31504), (118, 31501), (143, 31432), (151, 31381),

Gene: Funston_74 Start: 45644, Stop: 45345, Start Num: 71
Candidate Starts for Funston_74:

(Start: 71 @45644 has 120 MA's), (Start: 109 @45602 has 7 MA's),

Gene: Fushigi_70 Start: 43949, Stop: 43650, Start Num: 88

Candidate Starts for Fushigi_70:

(Start: 59 @44009 has 1 MA's), (Start: 88 @43949 has 203 MA's), (117, 43904), (118, 43901), (143, 43832), (151, 43781),

Gene: GMonster_72 Start: 46795, Stop: 46496, Start Num: 88

Candidate Starts for GMonster_72:

(Start: 59 @46855 has 1 MA's), (Start: 88 @46795 has 203 MA's), (117, 46750), (118, 46747), (143, 46678), (151, 46627),

Gene: Gadost_75 Start: 45648, Stop: 45349, Start Num: 71

Candidate Starts for Gadost_75:

(Start: 71 @45648 has 120 MA's), (Start: 109 @45606 has 7 MA's),

Gene: GageAP_79 Start: 48853, Stop: 48554, Start Num: 88

Candidate Starts for GageAP_79:

(Start: 59 @48913 has 1 MA's), (Start: 88 @48853 has 203 MA's), (117, 48808), (118, 48805), (143, 48736), (151, 48685),

Gene: Gail_84 Start: 47375, Stop: 47103, Start Num: 109

Candidate Starts for Gail_84:

(44, 47507), (49, 47495), (72, 47432), (Start: 109 @47375 has 7 MA's), (123, 47339), (141, 47291),

Gene: Gandalf20_75 Start: 46976, Stop: 46677, Start Num: 88

Candidate Starts for Gandalf20_75:

(Start: 69 @47006 has 5 MA's), (Start: 88 @46976 has 203 MA's), (117, 46931), (118, 46928), (143, 46859), (151, 46808),

Gene: Garak_85 Start: 45929, Stop: 45678, Start Num: 113

Candidate Starts for Garak_85:

(17, 46241), (22, 46184), (23, 46181), (28, 46136), (66, 46013), (Start: 107 @45941 has 12 MA's), (Start: 113 @45929 has 18 MA's), (116, 45923), (136, 45884),

Gene: Gemma_77 Start: 45437, Stop: 45174, Start Num: 108

Candidate Starts for Gemma_77:

(Start: 68 @45500 has 3 MA's), (Start: 77 @45482 has 5 MA's), (Start: 108 @45437 has 96 MA's), (118, 45416),

Gene: Georgie2_85 Start: 47969, Stop: 47661, Start Num: 76

Candidate Starts for Georgie2_85:

(Start: 76 @47969 has 40 MA's), (110, 47921), (117, 47906), (140, 47864), (155, 47747),

Gene: Ghouboy_70 Start: 44353, Stop: 44036, Start Num: 87

Candidate Starts for Ghouboy_70:

(56, 44425), (74, 44374), (79, 44365), (Start: 87 @44353 has 8 MA's), (Start: 92 @44347 has 2 MA's), (114, 44311), (119, 44299),

Gene: Gilberta_81 Start: 45712, Stop: 45416, Start Num: 93

Candidate Starts for Gilberta_81:

(Start: 93 @45712 has 24 MA's), (99, 45703), (118, 45673), (121, 45664), (148, 45574),

Gene: GingkoMaracino_80 Start: 45513, Stop: 45250, Start Num: 108
Candidate Starts for GingkoMaracino_80:
(Start: 68 @45576 has 3 MA's), (Start: 77 @45558 has 5 MA's), (Start: 108 @45513 has 96 MA's),
(118, 45492),

Gene: Giroux_77 Start: 46035, Stop: 45763, Start Num: 108
Candidate Starts for Giroux_77:
(Start: 108 @46035 has 96 MA's),

Gene: Gompeii16_77 Start: 49500, Stop: 49201, Start Num: 88
Candidate Starts for Gompeii16_77:
(Start: 59 @49560 has 1 MA's), (Start: 88 @49500 has 203 MA's), (117, 49455), (118, 49452), (143,
49383), (151, 49332),

Gene: Goose_84 Start: 48190, Stop: 47897, Start Num: 98
Candidate Starts for Goose_84:
(13, 48550), (18, 48454), (Start: 98 @48190 has 12 MA's), (129, 48136),

Gene: Graduation_79 Start: 47476, Stop: 47177, Start Num: 88
Candidate Starts for Graduation_79:
(Start: 88 @47476 has 203 MA's), (117, 47431), (118, 47428), (143, 47359), (151, 47308),

Gene: Gratitude_81 Start: 47452, Stop: 47141, Start Num: 76
Candidate Starts for Gratitude_81:
(Start: 76 @47452 has 40 MA's), (83, 47440), (106, 47410), (110, 47404), (117, 47389),

Gene: GrecoEtereo_80 Start: 48605, Stop: 48306, Start Num: 88
Candidate Starts for GrecoEtereo_80:
(Start: 69 @48635 has 5 MA's), (Start: 88 @48605 has 203 MA's), (117, 48560), (118, 48557), (143,
48488),

Gene: Greg_79 Start: 48129, Stop: 47830, Start Num: 88
Candidate Starts for Greg_79:
(Start: 69 @48159 has 5 MA's), (Start: 88 @48129 has 203 MA's), (117, 48084), (118, 48081), (143,
48012), (151, 47961),

Gene: Grif_78 Start: 45704, Stop: 45441, Start Num: 108
Candidate Starts for Grif_78:
(Start: 68 @45767 has 3 MA's), (Start: 77 @45749 has 5 MA's), (Start: 108 @45704 has 96 MA's),
(118, 45683),

Gene: Groupthink_80 Start: 45438, Stop: 45175, Start Num: 108
Candidate Starts for Groupthink_80:
(Start: 68 @45501 has 3 MA's), (Start: 77 @45483 has 5 MA's), (Start: 108 @45438 has 96 MA's),
(118, 45417),

Gene: Grub_78 Start: 45620, Stop: 45357, Start Num: 108
Candidate Starts for Grub_78:
(Start: 68 @45683 has 3 MA's), (Start: 77 @45665 has 5 MA's), (Start: 108 @45620 has 96 MA's),

Gene: Grum1_80 Start: 45630, Stop: 45367, Start Num: 108
Candidate Starts for Grum1_80:

(Start: 68 @45693 has 3 MA's), (Start: 77 @45675 has 5 MA's), (Start: 108 @45630 has 96 MA's), (118, 45609),

Gene: GtownJaz_80 Start: 45628, Stop: 45365, Start Num: 108

Candidate Starts for GtownJaz_80:

(Start: 68 @45691 has 3 MA's), (Start: 77 @45673 has 5 MA's), (Start: 108 @45628 has 96 MA's), (118, 45607),

Gene: Gwendoluna_80 Start: 48442, Stop: 48143, Start Num: 88

Candidate Starts for Gwendoluna_80:

(Start: 69 @48472 has 5 MA's), (Start: 88 @48442 has 203 MA's), (117, 48397), (118, 48394), (143, 48325), (151, 48274),

Gene: Gyzlar_69 Start: 43801, Stop: 43514, Start Num: 88

Candidate Starts for Gyzlar_69:

(Start: 59 @43861 has 1 MA's), (Start: 88 @43801 has 203 MA's), (117, 43768), (118, 43765), (143, 43696), (151, 43645),

Gene: HINdeR_74 Start: 48078, Stop: 47791, Start Num: 78

Candidate Starts for HINdeR_74:

(26, 48225), (28, 48216), (Start: 78 @48078 has 1 MA's), (117, 48018),

Gene: HamSlice_71 Start: 45646, Stop: 45347, Start Num: 71

Candidate Starts for HamSlice_71:

(Start: 71 @45646 has 120 MA's), (Start: 109 @45604 has 7 MA's),

Gene: Hami1_69 Start: 41842, Stop: 41543, Start Num: 88

Candidate Starts for Hami1_69:

(Start: 59 @41902 has 1 MA's), (Start: 88 @41842 has 203 MA's), (117, 41797), (118, 41794), (143, 41725), (151, 41674),

Gene: HanShotFirst_74 Start: 47407, Stop: 47108, Start Num: 88

Candidate Starts for HanShotFirst_74:

(Start: 59 @47467 has 1 MA's), (Start: 88 @47407 has 203 MA's), (117, 47362), (118, 47359), (143, 47290), (151, 47239),

Gene: Hanray_85 Start: 47995, Stop: 47711, Start Num: 100

Candidate Starts for Hanray_85:

(Start: 100 @47995 has 17 MA's), (121, 47956), (148, 47860),

Gene: Happiness_74 Start: 45670, Stop: 45368, Start Num: 71

Candidate Starts for Happiness_74:

(Start: 71 @45670 has 120 MA's), (Start: 109 @45628 has 7 MA's), (144, 45550),

Gene: HarryHoudini_83 Start: 47477, Stop: 47166, Start Num: 76

Candidate Starts for HarryHoudini_83:

(Start: 76 @47477 has 40 MA's), (83, 47465), (106, 47435), (110, 47429), (117, 47414),

Gene: HarryOW_77 Start: 48653, Stop: 48354, Start Num: 88

Candidate Starts for HarryOW_77:

(Start: 69 @48683 has 5 MA's), (Start: 88 @48653 has 203 MA's), (117, 48608), (118, 48605), (143, 48536), (151, 48485),

Gene: HashRod_81 Start: 45657, Stop: 45394, Start Num: 108
Candidate Starts for HashRod_81:
(Start: 68 @45720 has 3 MA's), (Start: 77 @45702 has 5 MA's), (Start: 108 @45657 has 96 MA's),
(118, 45636),

Gene: HaveUMetTed_80 Start: 45426, Stop: 45163, Start Num: 108
Candidate Starts for HaveUMetTed_80:
(Start: 68 @45489 has 3 MA's), (Start: 77 @45471 has 5 MA's), (Start: 108 @45426 has 96 MA's),
(118, 45405),

Gene: Heathen_78 Start: 45754, Stop: 45470, Start Num: 108
Candidate Starts for Heathen_78:
(Start: 108 @45754 has 96 MA's), (154, 45550),

Gene: Heffalump_80 Start: 47845, Stop: 47540, Start Num: 76
Candidate Starts for Heffalump_80:
(Start: 76 @47845 has 40 MA's), (110, 47800), (155, 47626),

Gene: HelDan_79 Start: 45977, Stop: 45693, Start Num: 108
Candidate Starts for HelDan_79:
(Start: 108 @45977 has 96 MA's), (154, 45773),

Gene: Heliosoles_77 Start: 45442, Stop: 45179, Start Num: 108
Candidate Starts for Heliosoles_77:
(Start: 68 @45505 has 3 MA's), (Start: 77 @45487 has 5 MA's), (Start: 108 @45442 has 96 MA's),
(118, 45421),

Gene: Helmet_85 Start: 45929, Stop: 45678, Start Num: 113
Candidate Starts for Helmet_85:
(17, 46241), (22, 46184), (23, 46181), (28, 46136), (66, 46013), (Start: 107 @45941 has 12 MA's),
(Start: 113 @45929 has 18 MA's), (116, 45923), (136, 45884),

Gene: Hercules11_80 Start: 45639, Stop: 45376, Start Num: 108
Candidate Starts for Hercules11_80:
(Start: 68 @45702 has 3 MA's), (Start: 77 @45684 has 5 MA's), (Start: 108 @45639 has 96 MA's),
(118, 45618),

Gene: Hermia_71 Start: 45532, Stop: 45233, Start Num: 88
Candidate Starts for Hermia_71:
(Start: 88 @45532 has 203 MA's), (117, 45487), (118, 45484), (143, 45415), (151, 45364),

Gene: HermioneGrange_80 Start: 48918, Stop: 48619, Start Num: 88
Candidate Starts for HermioneGrange_80:
(Start: 59 @48978 has 1 MA's), (Start: 88 @48918 has 203 MA's), (117, 48873), (118, 48870), (143,
48801), (151, 48750),

Gene: Horex_86 Start: 47990, Stop: 47727, Start Num: 113
Candidate Starts for Horex_86:
(Start: 100 @48008 has 17 MA's), (Start: 113 @47990 has 18 MA's), (121, 47969), (148, 47873),

Gene: Holli_74 Start: 45437, Stop: 45138, Start Num: 71
Candidate Starts for Holli_74:
(Start: 71 @45437 has 120 MA's), (Start: 109 @45395 has 7 MA's),

Gene: Homines_64 Start: 41862, Stop: 41563, Start Num: 88

Candidate Starts for Homines_64:

(Start: 88 @41862 has 203 MA's), (117, 41817), (118, 41814), (143, 41745), (148, 41718), (151, 41694),

Gene: Hookmount_79 Start: 45998, Stop: 45720, Start Num: 108

Candidate Starts for Hookmount_79:

(Start: 89 @46019 has 11 MA's), (Start: 103 @46001 has 23 MA's), (Start: 108 @45998 has 96 MA's), (118, 45980),

Gene: Hope4ever_77 Start: 47133, Stop: 46834, Start Num: 88

Candidate Starts for Hope4ever_77:

(21, 47340), (24, 47313), (32, 47271), (34, 47268), (39, 47241), (43, 47229), (47, 47220), (52, 47205), (Start: 73 @47151 has 13 MA's), (Start: 88 @47133 has 203 MA's), (117, 47088), (118, 47085), (143, 47016), (151, 46965),

Gene: HortumSL17_88 Start: 48032, Stop: 47766, Start Num: 113

Candidate Starts for HortumSL17_88:

(Start: 100 @48050 has 17 MA's), (Start: 113 @48032 has 18 MA's), (121, 48011), (148, 47915),

Gene: Houdini22_74 Start: 45648, Stop: 45349, Start Num: 71

Candidate Starts for Houdini22_74:

(Start: 71 @45648 has 120 MA's), (Start: 109 @45606 has 7 MA's),

Gene: HuhtaEnerson15_68 Start: 43954, Stop: 43652, Start Num: 86

Candidate Starts for HuhtaEnerson15_68:

(Start: 86 @43954 has 6 MA's), (102, 43927), (Start: 109 @43921 has 7 MA's), (152, 43768),

Gene: Hutc2_80 Start: 45262, Stop: 44966, Start Num: 93

Candidate Starts for Hutc2_80:

(Start: 93 @45262 has 24 MA's), (99, 45253), (118, 45223), (121, 45214), (148, 45124),

Gene: ICleared_74 Start: 45715, Stop: 45416, Start Num: 71

Candidate Starts for ICleared_74:

(Start: 71 @45715 has 120 MA's), (Start: 109 @45673 has 7 MA's),

Gene: ILeeKay_74 Start: 45443, Stop: 45144, Start Num: 88

Candidate Starts for ILeeKay_74:

(Start: 59 @45503 has 1 MA's), (Start: 88 @45443 has 203 MA's), (117, 45398), (118, 45395), (143, 45326), (151, 45275),

Gene: Iceman_73 Start: 45937, Stop: 45638, Start Num: 71

Candidate Starts for Iceman_73:

(Start: 71 @45937 has 120 MA's), (Start: 109 @45895 has 7 MA's),

Gene: Ichabod_79 Start: 47690, Stop: 47391, Start Num: 88

Candidate Starts for Ichabod_79:

(Start: 59 @47750 has 1 MA's), (Start: 88 @47690 has 203 MA's), (117, 47645), (118, 47642), (143, 47573), (151, 47522),

Gene: Idleandcovert_79 Start: 46036, Stop: 45764, Start Num: 108

Candidate Starts for Idleandcovert_79:

(Start: 108 @46036 has 96 MA's),

Gene: IgnatiusPatJac_76 Start: 46338, Stop: 46009, Start Num: 69

Candidate Starts for IgnatiusPatJac_76:

(Start: 69 @46338 has 5 MA's), (Start: 88 @46308 has 203 MA's), (117, 46263), (118, 46260), (143, 46191), (151, 46140),

Gene: Indra_87 Start: 45942, Stop: 45679, Start Num: 107

Candidate Starts for Indra_87:

(17, 46242), (22, 46185), (23, 46182), (28, 46137), (66, 46014), (Start: 107 @45942 has 12 MA's), (Start: 113 @45930 has 18 MA's), (116, 45924), (136, 45885),

Gene: Insomnia_83 Start: 46556, Stop: 46257, Start Num: 93

Candidate Starts for Insomnia_83:

(Start: 93 @46556 has 24 MA's), (99, 46547), (118, 46517), (121, 46508), (148, 46418),

Gene: Inyanga_68 Start: 45636, Stop: 45337, Start Num: 88

Candidate Starts for Inyanga_68:

(Start: 59 @45696 has 1 MA's), (Start: 88 @45636 has 203 MA's), (117, 45591), (118, 45588), (143, 45519), (151, 45468),

Gene: Iqorha_68 Start: 45635, Stop: 45336, Start Num: 88

Candidate Starts for Iqorha_68:

(Start: 59 @45695 has 1 MA's), (Start: 88 @45635 has 203 MA's), (117, 45590), (118, 45587), (143, 45518), (151, 45467),

Gene: Iracema64_75 Start: 45911, Stop: 45612, Start Num: 71

Candidate Starts for Iracema64_75:

(Start: 71 @45911 has 120 MA's), (Start: 109 @45869 has 7 MA's),

Gene: IronMan_79 Start: 48100, Stop: 47804, Start Num: 77

Candidate Starts for IronMan_79:

(41, 48175), (Start: 77 @48100 has 5 MA's), (Start: 113 @48064 has 18 MA's),

Gene: Isca_75 Start: 45153, Stop: 44866, Start Num: 103

Candidate Starts for Isca_75:

(Start: 89 @45171 has 11 MA's), (Start: 103 @45153 has 23 MA's), (Start: 108 @45150 has 96 MA's), (148, 45030), (154, 44946),

Gene: Isiphiwo_80 Start: 45575, Stop: 45285, Start Num: 80

Candidate Starts for Isiphiwo_80:

(Start: 80 @45575 has 4 MA's), (Start: 109 @45533 has 7 MA's), (110, 45530), (Start: 113 @45524 has 18 MA's), (114, 45521), (118, 45512), (144, 45455),

Gene: Iwokeuplikedis_86 Start: 48070, Stop: 47795, Start Num: 76

Candidate Starts for Iwokeuplikedis_86:

(25, 48229), (33, 48193), (36, 48181), (53, 48121), (57, 48115), (Start: 76 @48070 has 40 MA's), (Start: 104 @48031 has 5 MA's), (Start: 113 @48016 has 18 MA's),

Gene: JF2_75 Start: 43846, Stop: 43562, Start Num: 108

Candidate Starts for JF2_75:

(Start: 89 @43867 has 11 MA's), (Start: 103 @43849 has 23 MA's), (Start: 108 @43846 has 96 MA's), (148, 43726), (154, 43642),

Gene: JF4_75 Start: 43846, Stop: 43562, Start Num: 108

Candidate Starts for JF4_75:

(Start: 89 @43867 has 11 MA's), (Start: 103 @43849 has 23 MA's), (Start: 108 @43846 has 96 MA's), (148, 43726), (154, 43642),

Gene: JHC117_75 Start: 45625, Stop: 45362, Start Num: 108

Candidate Starts for JHC117_75:

(Start: 68 @45688 has 3 MA's), (Start: 77 @45670 has 5 MA's), (Start: 108 @45625 has 96 MA's), (118, 45604),

Gene: Jaan_80 Start: 48211, Stop: 47903, Start Num: 71

Candidate Starts for Jaan_80:

(Start: 71 @48211 has 120 MA's), (Start: 109 @48169 has 7 MA's), (135, 48109),

Gene: Jabith_83 Start: 46570, Stop: 46274, Start Num: 93

Candidate Starts for Jabith_83:

(Start: 93 @46570 has 24 MA's), (99, 46561), (118, 46531), (121, 46522), (148, 46432),

Gene: JackSparrow_77 Start: 46543, Stop: 46244, Start Num: 88

Candidate Starts for JackSparrow_77:

(Start: 59 @46603 has 1 MA's), (Start: 88 @46543 has 203 MA's), (117, 46498), (118, 46495), (151, 46375),

Gene: Jasper_75 Start: 45295, Stop: 44996, Start Num: 88

Candidate Starts for Jasper_75:

(Start: 59 @45355 has 1 MA's), (Start: 88 @45295 has 203 MA's), (117, 45250), (118, 45247), (143, 45178), (151, 45127),

Gene: Jaykayelowell_72 Start: 45640, Stop: 45341, Start Num: 71

Candidate Starts for Jaykayelowell_72:

(Start: 71 @45640 has 120 MA's), (Start: 109 @45598 has 7 MA's),

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

Candidate Starts for Jeeves_84:

(44, 46227), (49, 46215), (72, 46152), (75, 46146), (Start: 109 @46095 has 7 MA's), (121, 46065), (123, 46059), (125, 46056), (141, 46011),

Gene: JenCasNa_81 Start: 45630, Stop: 45367, Start Num: 108

Candidate Starts for JenCasNa_81:

(Start: 68 @45693 has 3 MA's), (Start: 77 @45675 has 5 MA's), (Start: 108 @45630 has 96 MA's), (118, 45609),

Gene: JeppNRM_80 Start: 45440, Stop: 45177, Start Num: 108

Candidate Starts for JeppNRM_80:

(Start: 68 @45503 has 3 MA's), (Start: 77 @45485 has 5 MA's), (Start: 108 @45440 has 96 MA's), (132, 45392),

Gene: Jerm_85 Start: 48029, Stop: 47718, Start Num: 73

Candidate Starts for Jerm_85:

(Start: 73 @48029 has 13 MA's), (Start: 76 @48026 has 40 MA's), (117, 47963), (155, 47801),

Gene: Jerm2_78 Start: 48988, Stop: 48689, Start Num: 88

Candidate Starts for Jerm2_78:

(Start: 59 @49048 has 1 MA's), (Start: 88 @48988 has 203 MA's), (117, 48943), (118, 48940), (143, 48871), (151, 48820),

Gene: JetBlade_76 Start: 45675, Stop: 45376, Start Num: 71

Candidate Starts for JetBlade_76:

(Start: 71 @45675 has 120 MA's), (Start: 109 @45633 has 7 MA's),

Gene: Jiawan_85 Start: 48025, Stop: 47744, Start Num: 100

Candidate Starts for Jiawan_85:

(Start: 100 @48025 has 17 MA's), (121, 47986), (148, 47890),

Gene: Jobu08_76 Start: 45454, Stop: 45191, Start Num: 108

Candidate Starts for Jobu08_76:

(Start: 68 @45517 has 3 MA's), (Start: 77 @45499 has 5 MA's), (Start: 108 @45454 has 96 MA's), (118, 45433),

Gene: JoongJeon_74 Start: 45641, Stop: 45342, Start Num: 71

Candidate Starts for JoongJeon_74:

(Start: 71 @45641 has 120 MA's), (Start: 109 @45599 has 7 MA's),

Gene: Jordennis_81 Start: 45745, Stop: 45497, Start Num: 109

Candidate Starts for Jordennis_81:

(29, 45931), (37, 45901), (61, 45835), (63, 45829), (Start: 80 @45787 has 4 MA's), (Start: 109 @45745 has 7 MA's), (110, 45742), (Start: 113 @45736 has 18 MA's), (114, 45733), (118, 45724), (144, 45667), (147, 45652),

Gene: Joselito_83 Start: 46590, Stop: 46294, Start Num: 93

Candidate Starts for Joselito_83:

(Start: 93 @46590 has 24 MA's), (99, 46581), (101, 46578), (118, 46551), (121, 46542), (148, 46452),

Gene: JoshKayV_85 Start: 48197, Stop: 47886, Start Num: 73

Candidate Starts for JoshKayV_85:

(Start: 73 @48197 has 13 MA's), (Start: 76 @48194 has 40 MA's), (106, 48152), (110, 48146), (155, 47972),

Gene: Jsquared_87 Start: 47057, Stop: 46782, Start Num: 103

Candidate Starts for Jsquared_87:

(20, 47306), (Start: 103 @47057 has 23 MA's), (114, 47036), (119, 47024), (121, 47018),

Gene: JuliaChild_77 Start: 47536, Stop: 47237, Start Num: 88

Candidate Starts for JuliaChild_77:

(Start: 69 @47566 has 5 MA's), (Start: 88 @47536 has 203 MA's), (117, 47491), (118, 47488), (143, 47419), (151, 47368),

Gene: KADY_77 Start: 45657, Stop: 45394, Start Num: 108

Candidate Starts for KADY_77:

(Start: 68 @45720 has 3 MA's), (Start: 77 @45702 has 5 MA's), (Start: 108 @45657 has 96 MA's), (118, 45636),

Gene: KBG_74 Start: 47890, Stop: 47585, Start Num: 82

Candidate Starts for KBG_74:

(Start: 82 @47890 has 2 MA's), (Start: 88 @47884 has 203 MA's), (117, 47839), (118, 47836), (143, 47767), (151, 47716),

Gene: KFPoly_74 Start: 45641, Stop: 45342, Start Num: 71
Candidate Starts for KFPoly_74:
(Start: 71 @45641 has 120 MA's), (Start: 109 @45599 has 7 MA's),

Gene: KSSJEB_73 Start: 45768, Stop: 45469, Start Num: 88
Candidate Starts for KSSJEB_73:
(Start: 88 @45768 has 203 MA's), (117, 45723), (118, 45720), (143, 45651), (151, 45600),

Gene: Kachowdy_76 Start: 46006, Stop: 45722, Start Num: 108
Candidate Starts for Kachowdy_76:
(Start: 108 @46006 has 96 MA's), (154, 45802),

Gene: Kalb97_80 Start: 44807, Stop: 44451, Start Num: 108
Candidate Starts for Kalb97_80:
(Start: 68 @44870 has 3 MA's), (Start: 77 @44852 has 5 MA's), (Start: 108 @44807 has 96 MA's), (118, 44786),

Gene: Kalnoky_80 Start: 45435, Stop: 45172, Start Num: 108
Candidate Starts for Kalnoky_80:
(Start: 68 @45498 has 3 MA's), (Start: 77 @45480 has 5 MA's), (Start: 108 @45435 has 96 MA's), (118, 45414),

Gene: Kalpine_85 Start: 48190, Stop: 47882, Start Num: 77
Candidate Starts for Kalpine_85:
(Start: 77 @48190 has 5 MA's), (106, 48151), (Start: 109 @48148 has 7 MA's),

Gene: Kampy_74 Start: 45650, Stop: 45351, Start Num: 71
Candidate Starts for Kampy_74:
(Start: 71 @45650 has 120 MA's), (Start: 109 @45608 has 7 MA's),

Gene: Kanely_78 Start: 47624, Stop: 47325, Start Num: 88
Candidate Starts for Kanely_78:
(Start: 82 @47630 has 2 MA's), (Start: 88 @47624 has 203 MA's), (117, 47579), (118, 47576), (143, 47507), (151, 47456),

Gene: Kenmech_78 Start: 47914, Stop: 47615, Start Num: 88
Candidate Starts for Kenmech_78:
(Start: 69 @47944 has 5 MA's), (Start: 88 @47914 has 203 MA's), (117, 47869), (118, 47866), (143, 47797), (151, 47746),

Gene: Kerberos_83 Start: 47197, Stop: 46919, Start Num: 103
Candidate Starts for Kerberos_83:
(Start: 103 @47197 has 23 MA's), (119, 47164), (121, 47158), (152, 47023),

Gene: Keziacharles14_84 Start: 48520, Stop: 48254, Start Num: 103
Candidate Starts for Keziacharles14_84:
(Start: 103 @48520 has 23 MA's), (114, 48505), (121, 48487), (Start: 122 @48484 has 2 MA's), (123, 48481),

Gene: Killigrew_73 Start: 46134, Stop: 45835, Start Num: 88

Candidate Starts for Killigrew_73:

(Start: 59 @46194 has 1 MA's), (Start: 88 @46134 has 203 MA's), (117, 46089), (118, 46086), (137, 46044), (143, 46017), (151, 45966),

Gene: KingCyrus_82 Start: 48898, Stop: 48593, Start Num: 76

Candidate Starts for KingCyrus_82:

(Start: 76 @48898 has 40 MA's), (106, 48859), (110, 48853), (154, 48682), (155, 48679),

Gene: Kingmustik0402_75 Start: 45636, Stop: 45337, Start Num: 71

Candidate Starts for Kingmustik0402_75:

(Start: 71 @45636 has 120 MA's), (Start: 109 @45594 has 7 MA's),

Gene: KittenMittens_78 Start: 47540, Stop: 47253, Start Num: 98

Candidate Starts for KittenMittens_78:

(1, 48347), (2, 48326), (3, 48314), (13, 47900), (18, 47804), (Start: 98 @47540 has 12 MA's), (111, 47525), (121, 47507),

Gene: Koan_70 Start: 45647, Stop: 45348, Start Num: 71

Candidate Starts for Koan_70:

(Start: 71 @45647 has 120 MA's), (Start: 109 @45605 has 7 MA's),

Gene: Koduck_83 Start: 46399, Stop: 46124, Start Num: 103

Candidate Starts for Koduck_83:

(20, 46648), (Start: 103 @46399 has 23 MA's), (117, 46372), (119, 46366), (121, 46360),

Gene: Koko_85 Start: 46331, Stop: 46068, Start Num: 107

Candidate Starts for Koko_85:

(17, 46631), (22, 46574), (23, 46571), (28, 46526), (66, 46403), (Start: 107 @46331 has 12 MA's), (Start: 113 @46319 has 18 MA's), (116, 46313), (136, 46274),

Gene: Koreni_74 Start: 45328, Stop: 45029, Start Num: 71

Candidate Starts for Koreni_74:

(Start: 71 @45328 has 120 MA's), (Start: 109 @45286 has 7 MA's),

Gene: Kratark_74 Start: 45681, Stop: 45382, Start Num: 71

Candidate Starts for Kratark_74:

(Start: 71 @45681 has 120 MA's), (Start: 109 @45639 has 7 MA's),

Gene: Kremtemulon_74 Start: 45795, Stop: 45481, Start Num: 51

Candidate Starts for Kremtemulon_74:

(50, 45798), (Start: 51 @45795 has 3 MA's), (60, 45777), (62, 45774), (115, 45732), (135, 45693),

Gene: Kristoff_81 Start: 48800, Stop: 48519, Start Num: 98

Candidate Starts for Kristoff_81:

(10, 49208), (15, 49112), (Start: 98 @48800 has 12 MA's),

Gene: Kugel_78 Start: 47776, Stop: 47477, Start Num: 88

Candidate Starts for Kugel_78:

(Start: 59 @47836 has 1 MA's), (Start: 88 @47776 has 203 MA's), (117, 47731), (118, 47728), (143, 47659), (151, 47608),

Gene: KyMonks1A_82 Start: 48245, Stop: 47946, Start Num: 88

Candidate Starts for KyMonks1A_82:

(Start: 69 @48275 has 5 MA's), (Start: 88 @48245 has 203 MA's), (117, 48200), (118, 48197), (143, 48128), (151, 48077),

Gene: Kyee_75 Start: 45642, Stop: 45343, Start Num: 71

Candidate Starts for Kyee_75:

(Start: 71 @45642 has 120 MA's), (Start: 109 @45600 has 7 MA's),

Gene: Kykar_76 Start: 46815, Stop: 46522, Start Num: 88

Candidate Starts for Kykar_76:

(Start: 59 @46875 has 1 MA's), (Start: 88 @46815 has 203 MA's), (101, 46794), (143, 46704), (151, 46653),

Gene: L5_76 Start: 46290, Stop: 46015, Start Num: 103

Candidate Starts for L5_76:

(20, 46539), (Start: 103 @46290 has 23 MA's), (117, 46263), (119, 46257), (121, 46251),

Gene: LBerry_81 Start: 45631, Stop: 45368, Start Num: 108

Candidate Starts for LBerry_81:

(Start: 68 @45694 has 3 MA's), (Start: 77 @45676 has 5 MA's), (Start: 108 @45631 has 96 MA's), (118, 45610),

Gene: LHTSCC_77 Start: 46087, Stop: 45785, Start Num: 71

Candidate Starts for LHTSCC_77:

(Start: 71 @46087 has 120 MA's), (Start: 109 @46045 has 7 MA's), (144, 45967),

Gene: LadyBird_87 Start: 48119, Stop: 47796, Start Num: 65

Candidate Starts for LadyBird_87:

(Start: 65 @48119 has 2 MA's), (Start: 88 @48098 has 203 MA's), (110, 48068), (117, 48053),

Gene: Lambert1_79 Start: 46002, Stop: 45721, Start Num: 103

Candidate Starts for Lambert1_79:

(Start: 89 @46020 has 11 MA's), (Start: 103 @46002 has 23 MA's), (Start: 108 @45999 has 96 MA's), (118, 45981),

Gene: Lamina13_80 Start: 49268, Stop: 48969, Start Num: 88

Candidate Starts for Lamina13_80:

(Start: 59 @49328 has 1 MA's), (Start: 88 @49268 has 203 MA's), (117, 49223), (118, 49220), (143, 49151), (151, 49100),

Gene: Landor_80 Start: 48136, Stop: 47828, Start Num: 71

Candidate Starts for Landor_80:

(Start: 71 @48136 has 120 MA's), (Start: 109 @48094 has 7 MA's), (135, 48034),

Gene: LappelDuVide_75 Start: 45647, Stop: 45348, Start Num: 71

Candidate Starts for LappelDuVide_75:

(Start: 71 @45647 has 120 MA's), (Start: 109 @45605 has 7 MA's),

Gene: Larenn_81 Start: 47473, Stop: 47156, Start Num: 76

Candidate Starts for Larenn_81:

(5, 48031), (9, 47863), (16, 47719), (Start: 76 @47473 has 40 MA's), (Start: 77 @47470 has 5 MA's), (106, 47431), (117, 47410), (154, 47245),

Gene: LarryKay_80 Start: 45661, Stop: 45398, Start Num: 108

Candidate Starts for LarryKay_80:

(Start: 68 @45724 has 3 MA's), (Start: 77 @45706 has 5 MA's), (Start: 108 @45661 has 96 MA's), (118, 45640),

Gene: Lemur_75 Start: 45644, Stop: 45345, Start Num: 71

Candidate Starts for Lemur_75:

(Start: 71 @45644 has 120 MA's), (Start: 109 @45602 has 7 MA's),

Gene: LeoAvram_74 Start: 45714, Stop: 45379, Start Num: 55

Candidate Starts for LeoAvram_74:

(Start: 55 @45714 has 1 MA's), (Start: 78 @45663 has 1 MA's), (Start: 109 @45636 has 7 MA's),

Gene: Lesedi_73 Start: 45402, Stop: 45103, Start Num: 88

Candidate Starts for Lesedi_73:

(Start: 69 @45432 has 5 MA's), (Start: 88 @45402 has 203 MA's), (117, 45357), (118, 45354), (143, 45285), (151, 45234),

Gene: Lev2_71 Start: 44266, Stop: 43970, Start Num: 89

Candidate Starts for Lev2_71:

(Start: 89 @44266 has 11 MA's), (102, 44245), (152, 44086),

Gene: Levia_67 Start: 44940, Stop: 44641, Start Num: 88

Candidate Starts for Levia_67:

(Start: 69 @44970 has 5 MA's), (Start: 88 @44940 has 203 MA's), (117, 44895), (118, 44892), (143, 44823), (151, 44772),

Gene: Leviathan_85 Start: 48110, Stop: 47802, Start Num: 73

Candidate Starts for Leviathan_85:

(Start: 73 @48110 has 13 MA's), (Start: 76 @48107 has 40 MA's), (106, 48065), (110, 48059), (117, 48044), (155, 47885),

Gene: Licorice_77 Start: 48925, Stop: 48626, Start Num: 88

Candidate Starts for Licorice_77:

(Start: 82 @48931 has 2 MA's), (Start: 88 @48925 has 203 MA's), (117, 48880), (118, 48877), (143, 48808), (151, 48757),

Gene: LilBib_73 Start: 47156, Stop: 46857, Start Num: 88

Candidate Starts for LilBib_73:

(Start: 88 @47156 has 203 MA's), (117, 47111), (118, 47108), (143, 47039), (151, 46988),

Gene: LilTurb_84 Start: 47906, Stop: 47598, Start Num: 73

Candidate Starts for LilTurb_84:

(Start: 73 @47906 has 13 MA's), (Start: 76 @47903 has 40 MA's), (117, 47840), (155, 47681),

Gene: Lilbunny_83 Start: 45573, Stop: 45310, Start Num: 107

Candidate Starts for Lilbunny_83:

(17, 45873), (22, 45816), (23, 45813), (28, 45768), (66, 45645), (Start: 107 @45573 has 12 MA's), (Start: 113 @45561 has 18 MA's), (116, 45555), (136, 45516),

Gene: Lilith_78 Start: 45620, Stop: 45357, Start Num: 108

Candidate Starts for Lilith_78:

(Start: 68 @45683 has 3 MA's), (Start: 77 @45665 has 5 MA's), (Start: 108 @45620 has 96 MA's),

Gene: Lilleskat_84 Start: 47987, Stop: 47724, Start Num: 113
Candidate Starts for Lilleskat_84:
(Start: 100 @48005 has 17 MA's), (Start: 113 @47987 has 18 MA's), (121, 47966), (148, 47870),

Gene: LionsBait_82 Start: 48447, Stop: 48130, Start Num: 80
Candidate Starts for LionsBait_82:
(Start: 80 @48447 has 4 MA's), (Start: 107 @48408 has 12 MA's), (Start: 109 @48405 has 7 MA's),
(140, 48345),

Gene: LittleB_75 Start: 45648, Stop: 45349, Start Num: 71
Candidate Starts for LittleB_75:
(Start: 71 @45648 has 120 MA's), (Start: 109 @45606 has 7 MA's),

Gene: LittleCherry_69 Start: 43824, Stop: 43522, Start Num: 86
Candidate Starts for LittleCherry_69:
(Start: 86 @43824 has 6 MA's), (102, 43797), (Start: 109 @43791 has 7 MA's), (152, 43638),

Gene: LittleGuy_75 Start: 45532, Stop: 45233, Start Num: 71
Candidate Starts for LittleGuy_75:
(Start: 71 @45532 has 120 MA's), (Start: 109 @45490 has 7 MA's),

Gene: LochMonster_76 Start: 45884, Stop: 45585, Start Num: 71
Candidate Starts for LochMonster_76:
(Start: 71 @45884 has 120 MA's), (Start: 109 @45842 has 7 MA's),

Gene: Lockley_73 Start: 46285, Stop: 45986, Start Num: 88
Candidate Starts for Lockley_73:
(Start: 69 @46315 has 5 MA's), (Start: 88 @46285 has 203 MA's), (117, 46240), (118, 46237), (143,
46168), (151, 46117),

Gene: Lokk_78 Start: 45975, Stop: 45661, Start Num: 71
Candidate Starts for Lokk_78:
(Start: 71 @45975 has 120 MA's), (Start: 96 @45948 has 1 MA's), (Start: 104 @45939 has 5 MA's),
(145, 45852),

Gene: LoneWolf_87 Start: 48048, Stop: 47776, Start Num: 100
Candidate Starts for LoneWolf_87:
(Start: 100 @48048 has 17 MA's), (Start: 113 @48030 has 18 MA's), (121, 48009), (Start: 122 @48006
has 2 MA's),

Gene: Lopton_75 Start: 48247, Stop: 47948, Start Num: 88
Candidate Starts for Lopton_75:
(Start: 69 @48277 has 5 MA's), (Start: 88 @48247 has 203 MA's), (117, 48202), (118, 48199), (143,
48130), (151, 48079),

Gene: Lorenzo_75 Start: 45645, Stop: 45346, Start Num: 71
Candidate Starts for Lorenzo_75:
(Start: 71 @45645 has 120 MA's),

Gene: Loser_86 Start: 48364, Stop: 48065, Start Num: 76
Candidate Starts for Loser_86:
(Start: 76 @48364 has 40 MA's), (85, 48352), (Start: 88 @48349 has 203 MA's), (91, 48346), (106,
48325), (117, 48304),

Gene: Louie6_79 Start: 45658, Stop: 45395, Start Num: 108

Candidate Starts for Louie6_79:

(Start: 68 @45721 has 3 MA's), (Start: 77 @45703 has 5 MA's), (Start: 108 @45658 has 96 MA's), (118, 45637),

Gene: Lowa_77 Start: 45619, Stop: 45356, Start Num: 108

Candidate Starts for Lowa_77:

(Start: 68 @45682 has 3 MA's), (Start: 77 @45664 has 5 MA's), (Start: 108 @45619 has 96 MA's),

Gene: Luchador_82 Start: 47356, Stop: 47087, Start Num: 109

Candidate Starts for Luchador_82:

(44, 47488), (49, 47476), (72, 47413), (Start: 109 @47356 has 7 MA's), (121, 47326), (123, 47320), (141, 47272),

Gene: Lucivia_85 Start: 46869, Stop: 46573, Start Num: 93

Candidate Starts for Lucivia_85:

(Start: 93 @46869 has 24 MA's), (99, 46860), (101, 46857), (118, 46830), (121, 46821), (148, 46731),

Gene: Lucyedi_82 Start: 47034, Stop: 46771, Start Num: 100

Candidate Starts for Lucyedi_82:

(7, 47598), (20, 47280), (Start: 100 @47034 has 17 MA's), (121, 46998), (Start: 122 @46995 has 2 MA's),

Gene: LugYA_83 Start: 45631, Stop: 45368, Start Num: 108

Candidate Starts for LugYA_83:

(Start: 68 @45694 has 3 MA's), (Start: 77 @45676 has 5 MA's), (Start: 108 @45631 has 96 MA's), (118, 45610),

Gene: LunaBlu_43 Start: 32418, Stop: 32182, Start Num: 88

Candidate Starts for LunaBlu_43:

(Start: 88 @32418 has 203 MA's), (117, 32373), (118, 32370), (143, 32301), (151, 32250),

Gene: Lunsford_75 Start: 45640, Stop: 45341, Start Num: 71

Candidate Starts for Lunsford_75:

(Start: 71 @45640 has 120 MA's), (Start: 109 @45598 has 7 MA's),

Gene: MA5_77 Start: 45054, Stop: 44770, Start Num: 108

Candidate Starts for MA5_77:

(Start: 108 @45054 has 96 MA's), (154, 44850),

Gene: MK4_72 Start: 43576, Stop: 43289, Start Num: 103

Candidate Starts for MK4_72:

(Start: 89 @43594 has 11 MA's), (Start: 103 @43576 has 23 MA's), (Start: 108 @43573 has 96 MA's), (148, 43453), (154, 43369),

Gene: MPlant7149_76 Start: 46801, Stop: 46502, Start Num: 88

Candidate Starts for MPlant7149_76:

(Start: 69 @46831 has 5 MA's), (Start: 88 @46801 has 203 MA's), (117, 46756), (118, 46753), (143, 46684), (151, 46633),

Gene: MaCh_84 Start: 46833, Stop: 46537, Start Num: 93

Candidate Starts for MaCh_84:

(Start: 93 @46833 has 24 MA's), (99, 46824), (101, 46821), (118, 46794), (121, 46785), (148, 46695),

Gene: Mabel_84 Start: 46834, Stop: 46538, Start Num: 93

Candidate Starts for Mabel_84:

(Start: 93 @46834 has 24 MA's), (99, 46825), (101, 46822), (118, 46795), (121, 46786), (148, 46696),

Gene: MadMarie_78 Start: 45628, Stop: 45365, Start Num: 108

Candidate Starts for MadMarie_78:

(Start: 68 @45691 has 3 MA's), (Start: 77 @45673 has 5 MA's), (Start: 108 @45628 has 96 MA's), (118, 45607),

Gene: Magnar_72 Start: 45929, Stop: 45630, Start Num: 88

Candidate Starts for Magnar_72:

(Start: 69 @45959 has 5 MA's), (Start: 88 @45929 has 203 MA's), (117, 45884), (118, 45881), (143, 45812), (151, 45761),

Gene: Magnito_75 Start: 46242, Stop: 45943, Start Num: 88

Candidate Starts for Magnito_75:

(Start: 88 @46242 has 203 MA's), (117, 46197), (118, 46194), (143, 46125), (151, 46074),

Gene: Mainiac_79 Start: 45620, Stop: 45357, Start Num: 108

Candidate Starts for Mainiac_79:

(Start: 68 @45683 has 3 MA's), (Start: 77 @45665 has 5 MA's), (Start: 108 @45620 has 96 MA's),

Gene: MajorMajor_80 Start: 45106, Stop: 44831, Start Num: 103

Candidate Starts for MajorMajor_80:

(20, 45355), (Start: 103 @45106 has 23 MA's), (114, 45085), (119, 45073),

Gene: Makemake_79 Start: 47852, Stop: 47553, Start Num: 88

Candidate Starts for Makemake_79:

(Start: 69 @47882 has 5 MA's), (Start: 88 @47852 has 203 MA's), (117, 47807), (118, 47804), (143, 47735), (151, 47684),

Gene: Malec_82 Start: 48043, Stop: 47726, Start Num: 76

Candidate Starts for Malec_82:

(Start: 76 @48043 has 40 MA's), (Start: 77 @48040 has 5 MA's), (106, 48001), (117, 47980), (154, 47815),

Gene: Malinsilva_83 Start: 45619, Stop: 45356, Start Num: 108

Candidate Starts for Malinsilva_83:

(Start: 68 @45682 has 3 MA's), (Start: 77 @45664 has 5 MA's), (Start: 108 @45619 has 96 MA's),

Gene: Maminiaina_86 Start: 47971, Stop: 47693, Start Num: 100

Candidate Starts for Maminiaina_86:

(Start: 100 @47971 has 17 MA's), (121, 47932),

Gene: Manatee_74 Start: 45782, Stop: 45483, Start Num: 88

Candidate Starts for Manatee_74:

(Start: 69 @45812 has 5 MA's), (Start: 88 @45782 has 203 MA's), (117, 45737), (118, 45734), (143, 45665),

Gene: Manu_79 Start: 45442, Stop: 45179, Start Num: 108

Candidate Starts for Manu_79:

(Start: 68 @45505 has 3 MA's), (Start: 77 @45487 has 5 MA's), (Start: 108 @45442 has 96 MA's), (118, 45421),

Gene: MarQuardt_80 Start: 45629, Stop: 45366, Start Num: 108

Candidate Starts for MarQuardt_80:

(Start: 68 @45692 has 3 MA's), (Start: 77 @45674 has 5 MA's), (Start: 108 @45629 has 96 MA's), (118, 45608),

Gene: Marcell_69 Start: 44549, Stop: 44250, Start Num: 88

Candidate Starts for Marcell_69:

(Start: 59 @44609 has 1 MA's), (Start: 88 @44549 has 203 MA's), (117, 44504), (118, 44501), (143, 44432), (151, 44381),

Gene: Marchesa_78 Start: 45958, Stop: 45674, Start Num: 108

Candidate Starts for Marchesa_78:

(Start: 108 @45958 has 96 MA's), (154, 45754),

Gene: Marchy_68 Start: 43353, Stop: 43054, Start Num: 88

Candidate Starts for Marchy_68:

(Start: 59 @43413 has 1 MA's), (Start: 88 @43353 has 203 MA's), (117, 43308), (118, 43305), (143, 43236), (151, 43185),

Gene: Marge_73 Start: 46046, Stop: 45747, Start Num: 88

Candidate Starts for Marge_73:

(Start: 59 @46106 has 1 MA's), (Start: 88 @46046 has 203 MA's), (117, 46001), (118, 45998), (143, 45929), (146, 45917), (151, 45878),

Gene: Margo_79 Start: 46027, Stop: 45746, Start Num: 103

Candidate Starts for Margo_79:

(Start: 89 @46045 has 11 MA's), (Start: 103 @46027 has 23 MA's), (Start: 108 @46024 has 96 MA's),

Gene: Marie_78 Start: 45630, Stop: 45367, Start Num: 108

Candidate Starts for Marie_78:

(Start: 68 @45693 has 3 MA's), (Start: 77 @45675 has 5 MA's), (Start: 108 @45630 has 96 MA's), (118, 45609),

Gene: Marius_80 Start: 45435, Stop: 45172, Start Num: 108

Candidate Starts for Marius_80:

(Start: 68 @45498 has 3 MA's), (Start: 77 @45480 has 5 MA's), (Start: 108 @45435 has 96 MA's), (118, 45414),

Gene: Maroc7_78 Start: 48845, Stop: 48546, Start Num: 88

Candidate Starts for Maroc7_78:

(Start: 59 @48905 has 1 MA's), (Start: 88 @48845 has 203 MA's), (117, 48800), (118, 48797), (143, 48728), (151, 48677),

Gene: Marsha_76 Start: 48488, Stop: 48189, Start Num: 88

Candidate Starts for Marsha_76:

(Start: 88 @48488 has 203 MA's), (117, 48443), (118, 48440), (143, 48371), (151, 48320),

Gene: MaryBeth_74 Start: 47072, Stop: 46773, Start Num: 88

Candidate Starts for MaryBeth_74:

(Start: 69 @47102 has 5 MA's), (Start: 88 @47072 has 203 MA's), (117, 47027), (118, 47024), (143, 46955), (151, 46904),

Gene: MarysWell_70 Start: 44501, Stop: 44202, Start Num: 87

Candidate Starts for MarysWell_70:

(79, 44513), (Start: 87 @44501 has 8 MA's), (Start: 92 @44495 has 2 MA's), (152, 44318),

Gene: Maverick_74 Start: 45644, Stop: 45345, Start Num: 71

Candidate Starts for Maverick_74:

(Start: 71 @45644 has 120 MA's), (Start: 109 @45602 has 7 MA's),

Gene: Maxo_77 Start: 45650, Stop: 45351, Start Num: 71

Candidate Starts for Maxo_77:

(Start: 71 @45650 has 120 MA's), (Start: 109 @45608 has 7 MA's),

Gene: Mayonnaise_72 Start: 45644, Stop: 45345, Start Num: 71

Candidate Starts for Mayonnaise_72:

(Start: 71 @45644 has 120 MA's), (Start: 109 @45602 has 7 MA's),

Gene: Mazhar510_75 Start: 45645, Stop: 45346, Start Num: 71

Candidate Starts for Mazhar510_75:

(Start: 71 @45645 has 120 MA's), (Start: 109 @45603 has 7 MA's),

Gene: McGuire_76 Start: 46085, Stop: 45786, Start Num: 88

Candidate Starts for McGuire_76:

(Start: 59 @46145 has 1 MA's), (Start: 88 @46085 has 203 MA's), (117, 46040), (118, 46037), (143, 45968), (151, 45917),

Gene: McSinger_74 Start: 47215, Stop: 46916, Start Num: 88

Candidate Starts for McSinger_74:

(Start: 59 @47275 has 1 MA's), (Start: 88 @47215 has 203 MA's), (117, 47170), (118, 47167), (143, 47098), (151, 47047),

Gene: Medusa_74 Start: 45660, Stop: 45361, Start Num: 71

Candidate Starts for Medusa_74:

(Start: 71 @45660 has 120 MA's), (Start: 109 @45618 has 7 MA's),

Gene: MeeZee_74 Start: 45641, Stop: 45342, Start Num: 71

Candidate Starts for MeeZee_74:

(Start: 71 @45641 has 120 MA's), (Start: 109 @45599 has 7 MA's),

Gene: Melissauren88_39 Start: 31545, Stop: 31309, Start Num: 88

Candidate Starts for Melissauren88_39:

(Start: 88 @31545 has 203 MA's), (117, 31500), (118, 31497), (143, 31428), (151, 31377),

Gene: Melvin_77 Start: 45642, Stop: 45343, Start Num: 71

Candidate Starts for Melvin_77:

(Start: 71 @45642 has 120 MA's), (Start: 109 @45600 has 7 MA's),

Gene: MetalQZJ_73 Start: 47072, Stop: 46773, Start Num: 88

Candidate Starts for MetalQZJ_73:

(Start: 69 @47102 has 5 MA's), (Start: 88 @47072 has 203 MA's), (117, 47027), (118, 47024), (143, 46955), (151, 46904),

Gene: Methuselah_73 Start: 45651, Stop: 45388, Start Num: 108
Candidate Starts for Methuselah_73:
(Start: 68 @45714 has 3 MA's), (Start: 77 @45696 has 5 MA's), (Start: 108 @45651 has 96 MA's),
(118, 45630),

Gene: Micasa_70 Start: 44223, Stop: 43924, Start Num: 87
Candidate Starts for Micasa_70:
(79, 44235), (Start: 87 @44223 has 8 MA's), (Start: 92 @44217 has 2 MA's), (114, 44181), (119,
44169), (148, 44079), (152, 44040),

Gene: Michley_77 Start: 46813, Stop: 46514, Start Num: 88
Candidate Starts for Michley_77:
(Start: 59 @46873 has 1 MA's), (Start: 88 @46813 has 203 MA's), (117, 46768), (118, 46765), (143,
46696), (151, 46645),

Gene: Microwolf_76 Start: 45643, Stop: 45380, Start Num: 108
Candidate Starts for Microwolf_76:
(Start: 68 @45706 has 3 MA's), (Start: 77 @45688 has 5 MA's), (Start: 108 @45643 has 96 MA's),

Gene: MiculUcigas_83 Start: 47170, Stop: 46859, Start Num: 76
Candidate Starts for MiculUcigas_83:
(Start: 76 @47170 has 40 MA's), (83, 47158), (Start: 88 @47152 has 203 MA's), (106, 47128), (110,
47122), (117, 47107),

Gene: Midas2_67 Start: 44122, Stop: 43820, Start Num: 86
Candidate Starts for Midas2_67:
(Start: 86 @44122 has 6 MA's), (117, 44071), (118, 44068), (150, 43960), (152, 43936),

Gene: Miko_78 Start: 46737, Stop: 46423, Start Num: 71
Candidate Starts for Miko_78:
(Start: 71 @46737 has 120 MA's), (Start: 96 @46710 has 1 MA's), (Start: 104 @46701 has 5 MA's),

Gene: Milcery_70 Start: 44007, Stop: 43711, Start Num: 89
Candidate Starts for Milcery_70:
(Start: 89 @44007 has 11 MA's), (102, 43986), (Start: 109 @43980 has 7 MA's), (148, 43866), (150,
43851), (152, 43827),

Gene: Millski_74 Start: 45648, Stop: 45349, Start Num: 71
Candidate Starts for Millski_74:
(Start: 71 @45648 has 120 MA's), (Start: 109 @45606 has 7 MA's),

Gene: Miramae_74 Start: 45242, Stop: 44946, Start Num: 69
Candidate Starts for Miramae_74:
(Start: 69 @45242 has 5 MA's), (Start: 107 @45221 has 12 MA's), (115, 45203), (143, 45134),

Gene: MissWhite_76 Start: 44037, Stop: 43771, Start Num: 100
Candidate Starts for MissWhite_76:
(6, 44595), (20, 44283), (Start: 100 @44037 has 17 MA's), (112, 44019), (121, 44001), (138, 43965),
(152, 43869),

Gene: Mkhuseli_73 Start: 44816, Stop: 44517, Start Num: 88
Candidate Starts for Mkhuseli_73:

(Start: 88 @44816 has 203 MA's), (117, 44771), (118, 44768), (143, 44699), (148, 44672), (151, 44648),

Gene: Molly_76 Start: 46458, Stop: 46159, Start Num: 88

Candidate Starts for Molly_76:

(Start: 69 @46488 has 5 MA's), (Start: 88 @46458 has 203 MA's), (117, 46413), (118, 46410), (143, 46341), (151, 46290),

Gene: Monet_80 Start: 48495, Stop: 48196, Start Num: 88

Candidate Starts for Monet_80:

(Start: 59 @48555 has 1 MA's), (Start: 88 @48495 has 203 MA's), (117, 48450), (118, 48447), (143, 48378), (151, 48327),

Gene: MoneyMay_80 Start: 45630, Stop: 45367, Start Num: 108

Candidate Starts for MoneyMay_80:

(Start: 68 @45693 has 3 MA's), (Start: 77 @45675 has 5 MA's), (Start: 108 @45630 has 96 MA's), (118, 45609),

Gene: Moose_78 Start: 47631, Stop: 47332, Start Num: 88

Candidate Starts for Moose_78:

(Start: 69 @47661 has 5 MA's), (Start: 88 @47631 has 203 MA's), (117, 47586), (118, 47583), (143, 47514), (151, 47463),

Gene: Morrow_77 Start: 45687, Stop: 45388, Start Num: 71

Candidate Starts for Morrow_77:

(Start: 71 @45687 has 120 MA's), (Start: 109 @45645 has 7 MA's),

Gene: MrGordo_77 Start: 46387, Stop: 46088, Start Num: 88

Candidate Starts for MrGordo_77:

(Start: 73 @46405 has 13 MA's), (Start: 88 @46387 has 203 MA's), (117, 46342), (118, 46339), (143, 46270), (151, 46219),

Gene: Mryolo_71 Start: 45416, Stop: 45117, Start Num: 88

Candidate Starts for Mryolo_71:

(Start: 69 @45446 has 5 MA's), (Start: 88 @45416 has 203 MA's), (117, 45371), (118, 45368), (143, 45299), (151, 45248),

Gene: MuchMore_83 Start: 45616, Stop: 45353, Start Num: 108

Candidate Starts for MuchMore_83:

(Start: 68 @45679 has 3 MA's), (Start: 77 @45661 has 5 MA's), (Start: 108 @45616 has 96 MA's),

Gene: Mulciber_82 Start: 46375, Stop: 46079, Start Num: 93

Candidate Starts for Mulciber_82:

(Start: 93 @46375 has 24 MA's), (99, 46366), (118, 46336), (121, 46327), (148, 46237),

Gene: Mule_75 Start: 46498, Stop: 46199, Start Num: 88

Candidate Starts for Mule_75:

(Start: 69 @46528 has 5 MA's), (Start: 88 @46498 has 203 MA's), (117, 46453), (118, 46450), (143, 46381), (151, 46330),

Gene: Munch_84 Start: 46838, Stop: 46542, Start Num: 93

Candidate Starts for Munch_84:

(Start: 93 @46838 has 24 MA's), (99, 46829), (101, 46826), (118, 46799), (121, 46790), (148, 46700),

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

Candidate Starts for Mundrea_74:

(Start: 69 @45707 has 5 MA's), (Start: 107 @45686 has 12 MA's), (115, 45668), (119, 45659), (144, 45596),

Gene: Museum_76 Start: 47521, Stop: 47222, Start Num: 88

Candidate Starts for Museum_76:

(Start: 69 @47551 has 5 MA's), (Start: 88 @47521 has 203 MA's), (117, 47476), (118, 47473), (143, 47404), (151, 47353),

Gene: MyraDee_79 Start: 44293, Stop: 44003, Start Num: 96

Candidate Starts for MyraDee_79:

(Start: 96 @44293 has 1 MA's), (120, 44254),

Gene: Myxus_87 Start: 48032, Stop: 47766, Start Num: 113

Candidate Starts for Myxus_87:

(Start: 100 @48050 has 17 MA's), (Start: 113 @48032 has 18 MA's), (121, 48011), (148, 47915),

Gene: NEHalo_72 Start: 46331, Stop: 46032, Start Num: 88

Candidate Starts for NEHalo_72:

(Start: 69 @46361 has 5 MA's), (Start: 88 @46331 has 203 MA's), (117, 46286), (118, 46283), (143, 46214), (151, 46163),

Gene: NaSiaTalie_84 Start: 47457, Stop: 47146, Start Num: 76

Candidate Starts for NaSiaTalie_84:

(Start: 76 @47457 has 40 MA's), (83, 47445), (106, 47415), (110, 47409), (117, 47394),

Gene: Naca_73 Start: 45403, Stop: 45119, Start Num: 97

Candidate Starts for Naca_73:

(Start: 92 @45415 has 2 MA's), (Start: 97 @45403 has 5 MA's), (115, 45376), (148, 45271), (151, 45247),

Gene: Naira_78 Start: 48004, Stop: 47705, Start Num: 88

Candidate Starts for Naira_78:

(Start: 59 @48064 has 1 MA's), (Start: 88 @48004 has 203 MA's), (117, 47959), (118, 47956), (143, 47887), (151, 47836),

Gene: Nebs_76 Start: 45687, Stop: 45388, Start Num: 71

Candidate Starts for Nebs_76:

(Start: 71 @45687 has 120 MA's), (Start: 109 @45645 has 7 MA's),

Gene: Nemo27_74 Start: 45643, Stop: 45344, Start Num: 71

Candidate Starts for Nemo27_74:

(Start: 71 @45643 has 120 MA's), (Start: 109 @45601 has 7 MA's),

Gene: Nerujay_80 Start: 48773, Stop: 48474, Start Num: 88

Candidate Starts for Nerujay_80:

(21, 48980), (24, 48953), (32, 48911), (34, 48908), (39, 48881), (43, 48869), (47, 48860), (52, 48845), (61, 48830), (Start: 73 @48791 has 13 MA's), (Start: 88 @48773 has 203 MA's), (117, 48728), (118, 48725), (143, 48656), (151, 48605),

Gene: Newrala_82 Start: 45995, Stop: 45705, Start Num: 80

Candidate Starts for Newrala_82:

(29, 46139), (37, 46109), (61, 46043), (63, 46037), (Start: 80 @45995 has 4 MA's), (Start: 109 @45953 has 7 MA's), (110, 45950), (Start: 113 @45944 has 18 MA's), (114, 45941), (118, 45932), (144, 45875),

Gene: Nhonho_72 Start: 46492, Stop: 46193, Start Num: 88

Candidate Starts for Nhonho_72:

(79, 46501), (Start: 88 @46492 has 203 MA's), (117, 46447), (118, 46444), (143, 46375), (151, 46324),

Gene: NicoleTera_81 Start: 47391, Stop: 47083, Start Num: 76

Candidate Starts for NicoleTera_81:

(Start: 76 @47391 has 40 MA's), (106, 47352), (117, 47331),

Gene: Niza_76 Start: 47804, Stop: 47505, Start Num: 88

Candidate Starts for Niza_76:

(Start: 69 @47834 has 5 MA's), (Start: 88 @47804 has 203 MA's), (117, 47759), (118, 47756), (143, 47687), (151, 47636),

Gene: Noella_80 Start: 46000, Stop: 45722, Start Num: 108

Candidate Starts for Noella_80:

(Start: 89 @46021 has 11 MA's), (Start: 103 @46003 has 23 MA's), (Start: 108 @46000 has 96 MA's),

Gene: Noelle_75 Start: 46056, Stop: 45739, Start Num: 51

Candidate Starts for Noelle_75:

(50, 46059), (Start: 51 @46056 has 3 MA's), (60, 46038), (62, 46035), (115, 45990), (135, 45951), (144, 45918),

Gene: Norbert_75 Start: 46000, Stop: 45719, Start Num: 103

Candidate Starts for Norbert_75:

(Start: 89 @46018 has 11 MA's), (Start: 103 @46000 has 23 MA's), (Start: 108 @45997 has 96 MA's),

Gene: NorthStar_72 Start: 45647, Stop: 45348, Start Num: 71

Candidate Starts for NorthStar_72:

(Start: 71 @45647 has 120 MA's), (Start: 109 @45605 has 7 MA's),

Gene: Norz_72 Start: 47994, Stop: 47695, Start Num: 88

Candidate Starts for Norz_72:

(Start: 59 @48054 has 1 MA's), (Start: 88 @47994 has 203 MA's), (117, 47949), (118, 47946), (143, 47877), (151, 47826),

Gene: NotAPhaseMom_74 Start: 45648, Stop: 45349, Start Num: 71

Candidate Starts for NotAPhaseMom_74:

(Start: 71 @45648 has 120 MA's), (Start: 109 @45606 has 7 MA's),

Gene: Nyxis_74 Start: 45526, Stop: 45227, Start Num: 71

Candidate Starts for Nyxis_74:

(Start: 71 @45526 has 120 MA's), (Start: 109 @45484 has 7 MA's),

Gene: OKCentral2016_82 Start: 47617, Stop: 47324, Start Num: 98

Candidate Starts for OKCentral2016_82:

(13, 47977), (18, 47881), (Start: 98 @47617 has 12 MA's), (129, 47563),

Gene: OKaNui_74 Start: 45697, Stop: 45398, Start Num: 71

Candidate Starts for OKaNui_74:
(Start: 71 @45697 has 120 MA's), (Start: 109 @45655 has 7 MA's),

Gene: Obama12_76 Start: 46071, Stop: 45769, Start Num: 71
Candidate Starts for Obama12_76:
(Start: 71 @46071 has 120 MA's), (Start: 109 @46029 has 7 MA's), (144, 45951),

Gene: Ohfah_76 Start: 45687, Stop: 45388, Start Num: 71
Candidate Starts for Ohfah_76:
(Start: 71 @45687 has 120 MA's), (Start: 109 @45645 has 7 MA's),

Gene: Ohno789_79 Start: 48554, Stop: 48255, Start Num: 88
Candidate Starts for Ohno789_79:
(Start: 69 @48584 has 5 MA's), (Start: 88 @48554 has 203 MA's), (117, 48509), (118, 48506), (143, 48437), (151, 48386),

Gene: OlanP_78 Start: 45614, Stop: 45351, Start Num: 108
Candidate Starts for OlanP_78:
(Start: 68 @45677 has 3 MA's), (Start: 77 @45659 has 5 MA's), (Start: 108 @45614 has 96 MA's), (118, 45593),

Gene: Ollie_80 Start: 45498, Stop: 45235, Start Num: 108
Candidate Starts for Ollie_80:
(Start: 68 @45561 has 3 MA's), (Start: 77 @45543 has 5 MA's), (Start: 108 @45498 has 96 MA's), (118, 45477),

Gene: Onglai_85 Start: 46179, Stop: 45916, Start Num: 113
Candidate Starts for Onglai_85:
(Start: 100 @46197 has 17 MA's), (Start: 113 @46179 has 18 MA's), (121, 46158), (148, 46062),

Gene: Oogway_75 Start: 47385, Stop: 47086, Start Num: 88
Candidate Starts for Oogway_75:
(Start: 59 @47445 has 1 MA's), (Start: 88 @47385 has 203 MA's), (117, 47340), (118, 47337), (143, 47268), (151, 47217),

Gene: Orange_84 Start: 46388, Stop: 46092, Start Num: 93
Candidate Starts for Orange_84:
(Start: 93 @46388 has 24 MA's), (99, 46379), (101, 46376), (118, 46349), (121, 46340), (148, 46250),

Gene: P28Green_80 Start: 45633, Stop: 45370, Start Num: 108
Candidate Starts for P28Green_80:
(Start: 68 @45696 has 3 MA's), (Start: 77 @45678 has 5 MA's), (Start: 108 @45633 has 96 MA's), (118, 45612),

Gene: PGHhamlin_82 Start: 45619, Stop: 45356, Start Num: 108
Candidate Starts for PGHhamlin_82:
(Start: 68 @45682 has 3 MA's), (Start: 77 @45664 has 5 MA's), (Start: 108 @45619 has 96 MA's),

Gene: PP_76 Start: 49639, Stop: 49325, Start Num: 59
Candidate Starts for PP_76:
(45, 49672), (Start: 59 @49639 has 1 MA's), (62, 49633), (Start: 80 @49600 has 4 MA's), (94, 49576), (110, 49558), (115, 49546),

Gene: PSullivan_74 Start: 45604, Stop: 45305, Start Num: 88
Candidate Starts for PSullivan_74:
(Start: 69 @45634 has 5 MA's), (Start: 88 @45604 has 203 MA's), (117, 45559), (118, 45556), (143, 45487), (151, 45436),

Gene: PacerPaul_81 Start: 48867, Stop: 48568, Start Num: 88
Candidate Starts for PacerPaul_81:
(Start: 59 @48927 has 1 MA's), (Start: 88 @48867 has 203 MA's), (117, 48822), (118, 48819), (143, 48750), (151, 48699),

Gene: PainterBoy_82 Start: 46744, Stop: 46481, Start Num: 100
Candidate Starts for PainterBoy_82:
(7, 47308), (20, 46990), (Start: 100 @46744 has 17 MA's), (121, 46708), (Start: 122 @46705 has 2 MA's),

Gene: Palestino_74 Start: 45644, Stop: 45345, Start Num: 71
Candidate Starts for Palestino_74:
(Start: 71 @45644 has 120 MA's), (Start: 109 @45602 has 7 MA's),

Gene: Panamaxus_76 Start: 45999, Stop: 45721, Start Num: 108
Candidate Starts for Panamaxus_76:
(Start: 89 @46020 has 11 MA's), (Start: 103 @46002 has 23 MA's), (Start: 108 @45999 has 96 MA's), (118, 45981),

Gene: Papez_78 Start: 47995, Stop: 47696, Start Num: 88
Candidate Starts for Papez_78:
(Start: 59 @48055 has 1 MA's), (Start: 88 @47995 has 203 MA's), (117, 47950), (118, 47947), (143, 47878), (151, 47827),

Gene: Paphu_71 Start: 46029, Stop: 45730, Start Num: 88
Candidate Starts for Paphu_71:
(Start: 69 @46059 has 5 MA's), (Start: 88 @46029 has 203 MA's), (117, 45984), (118, 45981), (143, 45912), (151, 45861),

Gene: Paraselene_74 Start: 46678, Stop: 46379, Start Num: 88
Candidate Starts for Paraselene_74:
(Start: 59 @46738 has 1 MA's), (Start: 88 @46678 has 203 MA's), (117, 46633), (118, 46630), (143, 46561), (151, 46510),

Gene: Pari_81 Start: 47398, Stop: 47099, Start Num: 88
Candidate Starts for Pari_81:
(Start: 69 @47428 has 5 MA's), (Start: 88 @47398 has 203 MA's), (117, 47353), (118, 47350), (143, 47281), (151, 47230),

Gene: Parliament_77 Start: 49579, Stop: 49280, Start Num: 88
Candidate Starts for Parliament_77:
(Start: 69 @49609 has 5 MA's), (Start: 88 @49579 has 203 MA's), (117, 49534), (118, 49531), (143, 49462), (151, 49411),

Gene: PascalRango_74 Start: 46673, Stop: 46374, Start Num: 88
Candidate Starts for PascalRango_74:
(Start: 69 @46703 has 5 MA's), (Start: 88 @46673 has 203 MA's), (117, 46628), (118, 46625), (143, 46556), (151, 46505),

Gene: PattyP_76 Start: 47227, Stop: 46928, Start Num: 88
Candidate Starts for PattyP_76:
(Start: 69 @47257 has 5 MA's), (Start: 88 @47227 has 203 MA's), (117, 47182), (118, 47179), (143, 47110), (151, 47059),

Gene: Pawn_78 Start: 45442, Stop: 45179, Start Num: 108
Candidate Starts for Pawn_78:
(Start: 68 @45505 has 3 MA's), (Start: 77 @45487 has 5 MA's), (Start: 108 @45442 has 96 MA's), (118, 45421),

Gene: PeaceMeal1_80 Start: 47544, Stop: 47254, Start Num: 98
Candidate Starts for PeaceMeal1_80:
(1, 48351), (2, 48330), (3, 48318), (13, 47904), (18, 47808), (Start: 98 @47544 has 12 MA's), (111, 47529), (121, 47511),

Gene: Peaches_73 Start: 45646, Stop: 45347, Start Num: 71
Candidate Starts for Peaches_73:
(Start: 71 @45646 has 120 MA's), (Start: 109 @45604 has 7 MA's),

Gene: Pelly_79 Start: 49760, Stop: 49461, Start Num: 88
Candidate Starts for Pelly_79:
(Start: 69 @49790 has 5 MA's), (Start: 88 @49760 has 203 MA's), (117, 49715), (118, 49712), (143, 49643), (151, 49592),

Gene: Pembroke_80 Start: 45628, Stop: 45365, Start Num: 108
Candidate Starts for Pembroke_80:
(Start: 68 @45691 has 3 MA's), (Start: 77 @45673 has 5 MA's), (Start: 108 @45628 has 96 MA's),

Gene: Penny1_80 Start: 45631, Stop: 45368, Start Num: 108
Candidate Starts for Penny1_80:
(Start: 68 @45694 has 3 MA's), (Start: 77 @45676 has 5 MA's), (Start: 108 @45631 has 96 MA's), (118, 45610),

Gene: Pepe_70 Start: 44682, Stop: 44383, Start Num: 88
Candidate Starts for Pepe_70:
(Start: 59 @44742 has 1 MA's), (Start: 88 @44682 has 203 MA's), (117, 44637), (118, 44634), (143, 44565), (151, 44514),

Gene: Perseus_76 Start: 48660, Stop: 48361, Start Num: 88
Candidate Starts for Perseus_76:
(Start: 69 @48690 has 5 MA's), (Start: 88 @48660 has 203 MA's), (117, 48615), (118, 48612), (143, 48543), (151, 48492),

Gene: PeterPeter_75 Start: 45641, Stop: 45342, Start Num: 71
Candidate Starts for PeterPeter_75:
(Start: 71 @45641 has 120 MA's), (Start: 109 @45599 has 7 MA's),

Gene: Petersenfast_78 Start: 45269, Stop: 44973, Start Num: 93
Candidate Starts for Petersenfast_78:
(Start: 93 @45269 has 24 MA's), (99, 45260), (101, 45257), (118, 45230), (121, 45221), (148, 45131),

Gene: Peterson_75 Start: 47826, Stop: 47527, Start Num: 88

Candidate Starts for Peterson_75:

(Start: 59 @47886 has 1 MA's), (Start: 88 @47826 has 203 MA's), (117, 47781), (118, 47778), (143, 47709), (151, 47658),

Gene: Petp2012_77 Start: 48008, Stop: 47709, Start Num: 88

Candidate Starts for Petp2012_77:

(Start: 59 @48068 has 1 MA's), (Start: 88 @48008 has 203 MA's), (117, 47963), (118, 47960), (143, 47891), (151, 47840),

Gene: Petruchio_76 Start: 46087, Stop: 45788, Start Num: 88

Candidate Starts for Petruchio_76:

(Start: 88 @46087 has 203 MA's), (117, 46042), (118, 46039), (143, 45970), (151, 45919),

Gene: PetterN_78 Start: 45190, Stop: 44906, Start Num: 97

Candidate Starts for PetterN_78:

(Start: 92 @45202 has 2 MA's), (Start: 97 @45190 has 5 MA's), (115, 45163), (148, 45058), (151, 45034),

Gene: Phacado_75 Start: 45643, Stop: 45344, Start Num: 71

Candidate Starts for Phacado_75:

(Start: 71 @45643 has 120 MA's), (Start: 109 @45601 has 7 MA's),

Gene: Phaded_76 Start: 48095, Stop: 47787, Start Num: 71

Candidate Starts for Phaded_76:

(Start: 71 @48095 has 120 MA's), (Start: 109 @48053 has 7 MA's), (135, 47993),

Gene: Phaeder_87 Start: 47907, Stop: 47641, Start Num: 113

Candidate Starts for Phaeder_87:

(Start: 100 @47925 has 17 MA's), (Start: 113 @47907 has 18 MA's), (121, 47886), (148, 47790),

Gene: Phantastic_80 Start: 45465, Stop: 45187, Start Num: 108

Candidate Starts for Phantastic_80:

(Start: 108 @45465 has 96 MA's),

Gene: Pharaoh_77 Start: 47219, Stop: 46926, Start Num: 104

Candidate Starts for Pharaoh_77:

(Start: 104 @47219 has 5 MA's), (117, 47195), (118, 47192), (127, 47168), (139, 47135),

Gene: Phelipe_76 Start: 45687, Stop: 45388, Start Num: 71

Candidate Starts for Phelipe_76:

(Start: 71 @45687 has 120 MA's), (Start: 109 @45645 has 7 MA's),

Gene: PherrisBueller_75 Start: 44946, Stop: 44647, Start Num: 88

Candidate Starts for PherrisBueller_75:

(Start: 59 @45006 has 1 MA's), (Start: 88 @44946 has 203 MA's), (117, 44901), (118, 44898), (143, 44829), (151, 44778),

Gene: Phighter1804_75 Start: 45708, Stop: 45409, Start Num: 71

Candidate Starts for Phighter1804_75:

(Start: 71 @45708 has 120 MA's), (Start: 109 @45666 has 7 MA's),

Gene: PhineBark_71 Start: 45958, Stop: 45659, Start Num: 88

Candidate Starts for PhineBark_71:

(Start: 69 @45988 has 5 MA's), (Start: 88 @45958 has 203 MA's), (117, 45913), (118, 45910), (143, 45841), (151, 45790),

Gene: PhishRPhriends_76 Start: 44622, Stop: 44359, Start Num: 108

Candidate Starts for PhishRPhriends_76:

(Start: 68 @44685 has 3 MA's), (Start: 77 @44667 has 5 MA's), (Start: 108 @44622 has 96 MA's), (118, 44601),

Gene: Phlippers_74 Start: 48309, Stop: 48010, Start Num: 88

Candidate Starts for Phlippers_74:

(Start: 59 @48369 has 1 MA's), (Start: 88 @48309 has 203 MA's), (117, 48264), (118, 48261), (143, 48192), (151, 48141),

Gene: Phlorence_69 Start: 44013, Stop: 43717, Start Num: 89

Candidate Starts for Phlorence_69:

(Start: 89 @44013 has 11 MA's), (102, 43992),

Gene: Phoebe_81 Start: 45623, Stop: 45360, Start Num: 108

Candidate Starts for Phoebe_81:

(Start: 68 @45686 has 3 MA's), (Start: 77 @45668 has 5 MA's), (Start: 108 @45623 has 96 MA's), (118, 45602),

Gene: Phonnegut_87 Start: 47920, Stop: 47657, Start Num: 113

Candidate Starts for Phonnegut_87:

(Start: 100 @47938 has 17 MA's), (Start: 113 @47920 has 18 MA's), (121, 47899), (148, 47803),

Gene: Phontbonne_75 Start: 45542, Stop: 45243, Start Num: 71

Candidate Starts for Phontbonne_75:

(Start: 71 @45542 has 120 MA's), (Start: 109 @45500 has 7 MA's),

Gene: Phoxy_80 Start: 45652, Stop: 45389, Start Num: 108

Candidate Starts for Phoxy_80:

(Start: 68 @45715 has 3 MA's), (Start: 77 @45697 has 5 MA's), (Start: 108 @45652 has 96 MA's), (118, 45631),

Gene: PhrostyMug_78 Start: 48672, Stop: 48373, Start Num: 88

Candidate Starts for PhrostyMug_78:

(Start: 69 @48702 has 5 MA's), (Start: 88 @48672 has 203 MA's), (117, 48627), (118, 48624), (143, 48555), (151, 48504),

Gene: PickleBack_71 Start: 44188, Stop: 43892, Start Num: 89

Candidate Starts for PickleBack_71:

(Start: 89 @44188 has 11 MA's), (102, 44167), (152, 44008),

Gene: PinkPlastic_72 Start: 45594, Stop: 45295, Start Num: 88

Candidate Starts for PinkPlastic_72:

(Start: 59 @45654 has 1 MA's), (Start: 88 @45594 has 203 MA's), (117, 45549), (118, 45546), (143, 45477), (151, 45426),

Gene: Pinto_76 Start: 47457, Stop: 47158, Start Num: 88

Candidate Starts for Pinto_76:

(Start: 59 @47517 has 1 MA's), (Start: 88 @47457 has 203 MA's), (117, 47412), (118, 47409), (128, 47391), (143, 47340), (151, 47289),

Gene: Pioneer_87 Start: 47920, Stop: 47657, Start Num: 113
Candidate Starts for Pioneer_87:
(Start: 100 @47938 has 17 MA's), (Start: 113 @47920 has 18 MA's), (121, 47899), (148, 47803),

Gene: Pipcraft_71 Start: 45648, Stop: 45349, Start Num: 71
Candidate Starts for Pipcraft_71:
(Start: 71 @45648 has 120 MA's), (Start: 109 @45606 has 7 MA's),

Gene: Pippin_77 Start: 47099, Stop: 46800, Start Num: 88
Candidate Starts for Pippin_77:
(Start: 59 @47159 has 1 MA's), (Start: 88 @47099 has 203 MA's), (117, 47054), (118, 47051), (143, 46982), (151, 46931),

Gene: Piro94_82 Start: 47405, Stop: 47094, Start Num: 76
Candidate Starts for Piro94_82:
(Start: 76 @47405 has 40 MA's), (83, 47393), (110, 47357), (117, 47342),

Gene: Pistachio_79 Start: 45583, Stop: 45311, Start Num: 108
Candidate Starts for Pistachio_79:
(Start: 108 @45583 has 96 MA's),

Gene: Pita2_77 Start: 47100, Stop: 46801, Start Num: 88
Candidate Starts for Pita2_77:
(Start: 69 @47130 has 5 MA's), (Start: 88 @47100 has 203 MA's), (117, 47055), (118, 47052), (143, 46983), (151, 46932),

Gene: Pmask_82 Start: 46196, Stop: 45906, Start Num: 80
Candidate Starts for Pmask_82:
(29, 46340), (37, 46310), (61, 46244), (63, 46238), (Start: 80 @46196 has 4 MA's), (Start: 109 @46154 has 7 MA's), (110, 46151), (Start: 113 @46145 has 18 MA's), (114, 46142), (118, 46133), (144, 46076),

Gene: Pocahontas_78 Start: 45995, Stop: 45717, Start Num: 108
Candidate Starts for Pocahontas_78:
(Start: 89 @46016 has 11 MA's), (Start: 103 @45998 has 23 MA's), (Start: 108 @45995 has 96 MA's), (118, 45977),

Gene: Polo2Bam_44 Start: 31582, Stop: 31346, Start Num: 88
Candidate Starts for Polo2Bam_44:
(Start: 88 @31582 has 203 MA's), (117, 31537), (118, 31534), (143, 31465), (151, 31414),

Gene: Polymorphads_76 Start: 45668, Stop: 45369, Start Num: 71
Candidate Starts for Polymorphads_76:
(Start: 71 @45668 has 120 MA's),

Gene: Pomar16_83 Start: 47270, Stop: 46992, Start Num: 103
Candidate Starts for Pomar16_83:
(Start: 103 @47270 has 23 MA's), (119, 47237), (121, 47231), (152, 47096),

Gene: Poompha_80 Start: 47542, Stop: 47252, Start Num: 98
Candidate Starts for Poompha_80:
(17, 47818), (Start: 98 @47542 has 12 MA's), (111, 47527), (121, 47509),

Gene: Popcicle_79 Start: 45995, Stop: 45717, Start Num: 108
Candidate Starts for Popcicle_79:
(Start: 89 @46016 has 11 MA's), (Start: 103 @45998 has 23 MA's), (Start: 108 @45995 has 96 MA's),
(118, 45977),

Gene: PotatoSplit_81 Start: 45631, Stop: 45368, Start Num: 108
Candidate Starts for PotatoSplit_81:
(Start: 68 @45694 has 3 MA's), (Start: 77 @45676 has 5 MA's), (Start: 108 @45631 has 96 MA's),
(118, 45610),

Gene: Power_83 Start: 47968, Stop: 47660, Start Num: 76
Candidate Starts for Power_83:
(Start: 76 @47968 has 40 MA's), (110, 47920), (117, 47905), (140, 47863), (155, 47746),

Gene: Priamo_85 Start: 45857, Stop: 45609, Start Num: 109
Candidate Starts for Priamo_85:
(Start: 80 @45899 has 4 MA's), (Start: 109 @45857 has 7 MA's), (110, 45854), (Start: 113 @45848
has 18 MA's), (114, 45845), (118, 45836), (144, 45779),

Gene: Prinashe11_68 Start: 43827, Stop: 43531, Start Num: 89
Candidate Starts for Prinashe11_68:
(Start: 89 @43827 has 11 MA's), (102, 43806), (Start: 109 @43800 has 7 MA's), (152, 43647),

Gene: Priya_85 Start: 47691, Stop: 47428, Start Num: 113
Candidate Starts for Priya_85:
(Start: 100 @47709 has 17 MA's), (Start: 113 @47691 has 18 MA's), (121, 47670), (148, 47574),

Gene: ProMouse_76 Start: 46599, Stop: 46300, Start Num: 88
Candidate Starts for ProMouse_76:
(Start: 59 @46659 has 1 MA's), (Start: 88 @46599 has 203 MA's), (117, 46554), (118, 46551), (143,
46482), (151, 46431),

Gene: Pumbaa_75 Start: 45592, Stop: 45293, Start Num: 71
Candidate Starts for Pumbaa_75:
(Start: 71 @45592 has 120 MA's), (Start: 109 @45550 has 7 MA's),

Gene: Puppy_80 Start: 45653, Stop: 45381, Start Num: 108
Candidate Starts for Puppy_80:
(Start: 108 @45653 has 96 MA's),

Gene: PurpleHaze_79 Start: 45438, Stop: 45175, Start Num: 108
Candidate Starts for PurpleHaze_79:
(Start: 68 @45501 has 3 MA's), (Start: 77 @45483 has 5 MA's), (Start: 108 @45438 has 96 MA's),
(118, 45417),

Gene: QTRlifeCrisis_75 Start: 46442, Stop: 46143, Start Num: 88
Candidate Starts for QTRlifeCrisis_75:
(Start: 88 @46442 has 203 MA's), (117, 46397), (118, 46394), (143, 46325), (151, 46274),

Gene: Qobbit_85 Start: 47653, Stop: 47390, Start Num: 113
Candidate Starts for Qobbit_85:
(Start: 100 @47671 has 17 MA's), (Start: 113 @47653 has 18 MA's), (121, 47632), (148, 47536),

Gene: QueenB2_80 Start: 47058, Stop: 46753, Start Num: 76

Candidate Starts for QueenB2_80:

(Start: 76 @47058 has 40 MA's), (110, 47013), (155, 46839),

Gene: QueenBeesly_83 Start: 47765, Stop: 47457, Start Num: 76

Candidate Starts for QueenBeesly_83:

(Start: 76 @47765 has 40 MA's), (110, 47717), (117, 47702), (140, 47660), (155, 47543),

Gene: QuinnKiro_78 Start: 46001, Stop: 45720, Start Num: 103

Candidate Starts for QuinnKiro_78:

(Start: 89 @46019 has 11 MA's), (Start: 103 @46001 has 23 MA's), (Start: 108 @45998 has 96 MA's), (118, 45980),

Gene: Quokka_85 Start: 46815, Stop: 46540, Start Num: 103

Candidate Starts for Quokka_85:

(20, 47064), (Start: 103 @46815 has 23 MA's), (114, 46794), (119, 46782),

Gene: Rachaly_80 Start: 46883, Stop: 46569, Start Num: 71

Candidate Starts for Rachaly_80:

(Start: 71 @46883 has 120 MA's), (Start: 96 @46856 has 1 MA's), (Start: 104 @46847 has 5 MA's), (145, 46760),

Gene: Rahalelujah_86 Start: 47466, Stop: 47197, Start Num: 100

Candidate Starts for Rahalelujah_86:

(Start: 100 @47466 has 17 MA's), (Start: 113 @47448 has 18 MA's), (121, 47427),

Gene: Raid_74 Start: 46344, Stop: 46045, Start Num: 88

Candidate Starts for Raid_74:

(Start: 88 @46344 has 203 MA's), (117, 46299), (118, 46296), (143, 46227), (151, 46176),

Gene: Rajelicia_78 Start: 49280, Stop: 48981, Start Num: 88

Candidate Starts for Rajelicia_78:

(Start: 59 @49340 has 1 MA's), (Start: 88 @49280 has 203 MA's), (117, 49235), (118, 49232), (143, 49163), (151, 49112),

Gene: Reba_75 Start: 44278, Stop: 44015, Start Num: 108

Candidate Starts for Reba_75:

(Start: 68 @44341 has 3 MA's), (Start: 77 @44323 has 5 MA's), (Start: 108 @44278 has 96 MA's), (118, 44257),

Gene: Rebeuca_84 Start: 48801, Stop: 48520, Start Num: 98

Candidate Starts for Rebeuca_84:

(10, 49209), (15, 49113), (Start: 78 @48825 has 1 MA's), (Start: 98 @48801 has 12 MA's),

Gene: RedRock_83 Start: 48017, Stop: 47718, Start Num: 76

Candidate Starts for RedRock_83:

(Start: 76 @48017 has 40 MA's), (85, 48005), (Start: 88 @48002 has 203 MA's), (91, 47999), (106, 47978), (117, 47957),

Gene: Refuge_80 Start: 47830, Stop: 47555, Start Num: 104

Candidate Starts for Refuge_80:

(Start: 104 @47830 has 5 MA's), (115, 47809), (124, 47785), (131, 47773),

Gene: Relief_74 Start: 45644, Stop: 45345, Start Num: 71
Candidate Starts for Relief_74:
(Start: 71 @45644 has 120 MA's), (Start: 109 @45602 has 7 MA's),

Gene: ResDef_77 Start: 46001, Stop: 45723, Start Num: 108
Candidate Starts for ResDef_77:
(Start: 89 @46022 has 11 MA's), (Start: 103 @46004 has 23 MA's), (Start: 108 @46001 has 96 MA's),
(118, 45983),

Gene: Retro23_83 Start: 47489, Stop: 47184, Start Num: 76
Candidate Starts for Retro23_83:
(Start: 76 @47489 has 40 MA's), (110, 47444), (117, 47429), (140, 47387), (155, 47270),

Gene: RhynO_71 Start: 44245, Stop: 43955, Start Num: 98
Candidate Starts for RhynO_71:
(Start: 98 @44245 has 12 MA's),

Gene: Rhynn_72 Start: 46867, Stop: 46568, Start Num: 88
Candidate Starts for Rhynn_72:
(Start: 69 @46897 has 5 MA's), (Start: 88 @46867 has 203 MA's), (117, 46822), (118, 46819), (143,
46750), (146, 46738), (151, 46699),

Gene: Ringer_76 Start: 47812, Stop: 47513, Start Num: 88
Candidate Starts for Ringer_76:
(79, 47821), (Start: 88 @47812 has 203 MA's), (117, 47767), (118, 47764), (143, 47695), (151, 47644),

Gene: Rohr_79 Start: 49063, Stop: 48764, Start Num: 88
Candidate Starts for Rohr_79:
(Start: 59 @49123 has 1 MA's), (Start: 88 @49063 has 203 MA's), (117, 49018), (118, 49015), (143,
48946), (151, 48895),

Gene: Roksolana_84 Start: 45837, Stop: 45574, Start Num: 107
Candidate Starts for Roksolana_84:
(17, 46137), (22, 46080), (23, 46077), (28, 46032), (66, 45909), (Start: 107 @45837 has 12 MA's),
(Start: 113 @45825 has 18 MA's), (116, 45819), (136, 45780),

Gene: Romney_74 Start: 45644, Stop: 45345, Start Num: 71
Candidate Starts for Romney_74:
(Start: 71 @45644 has 120 MA's), (Start: 109 @45602 has 7 MA's),

Gene: Roosevelt_73 Start: 45649, Stop: 45350, Start Num: 71
Candidate Starts for Roosevelt_73:
(Start: 71 @45649 has 120 MA's), (Start: 109 @45607 has 7 MA's),

Gene: Rosa24_71 Start: 45675, Stop: 45376, Start Num: 71
Candidate Starts for Rosa24_71:
(Start: 71 @45675 has 120 MA's), (Start: 109 @45633 has 7 MA's),

Gene: Rowdy_86 Start: 48631, Stop: 48341, Start Num: 98
Candidate Starts for Rowdy_86:
(Start: 98 @48631 has 12 MA's),

Gene: Rubeus_77 Start: 45563, Stop: 45264, Start Num: 88
Candidate Starts for Rubeus_77:
(Start: 59 @45623 has 1 MA's), (Start: 88 @45563 has 203 MA's), (117, 45518), (118, 45515), (143, 45446), (151, 45395),

Gene: Rufus_79 Start: 48252, Stop: 47953, Start Num: 88
Candidate Starts for Rufus_79:
(Start: 59 @48312 has 1 MA's), (Start: 88 @48252 has 203 MA's), (117, 48207), (118, 48204), (143, 48135), (151, 48084),

Gene: Ruin_75 Start: 45640, Stop: 45341, Start Num: 71
Candidate Starts for Ruin_75:
(Start: 71 @45640 has 120 MA's), (Start: 109 @45598 has 7 MA's),

Gene: Rummer_79 Start: 45655, Stop: 45392, Start Num: 108
Candidate Starts for Rummer_79:
(Start: 68 @45718 has 3 MA's), (Start: 77 @45700 has 5 MA's), (Start: 108 @45655 has 96 MA's), (118, 45634),

Gene: Ruotula_80 Start: 48665, Stop: 48366, Start Num: 88
Candidate Starts for Ruotula_80:
(Start: 88 @48665 has 203 MA's), (95, 48653), (117, 48620), (118, 48617), (143, 48548), (151, 48497),

Gene: Rutherferd_78 Start: 47832, Stop: 47533, Start Num: 88
Candidate Starts for Rutherferd_78:
(Start: 88 @47832 has 203 MA's), (117, 47787), (118, 47784), (143, 47715), (151, 47664),

Gene: RyeScarlet_88 Start: 47915, Stop: 47631, Start Num: 100
Candidate Starts for RyeScarlet_88:
(Start: 100 @47915 has 17 MA's), (121, 47876), (148, 47780),

Gene: STLscum_82 Start: 47874, Stop: 47575, Start Num: 88
Candidate Starts for STLscum_82:
(Start: 69 @47904 has 5 MA's), (Start: 88 @47874 has 203 MA's), (117, 47829), (118, 47826), (143, 47757), (151, 47706),

Gene: Sabertooth_75 Start: 45652, Stop: 45353, Start Num: 71
Candidate Starts for Sabertooth_75:
(Start: 71 @45652 has 120 MA's), (Start: 109 @45610 has 7 MA's),

Gene: Sabia_78 Start: 45635, Stop: 45372, Start Num: 108
Candidate Starts for Sabia_78:
(Start: 68 @45698 has 3 MA's), (Start: 77 @45680 has 5 MA's), (Start: 108 @45635 has 96 MA's),

Gene: Sabinator_78 Start: 45629, Stop: 45366, Start Num: 108
Candidate Starts for Sabinator_78:
(Start: 68 @45692 has 3 MA's), (Start: 77 @45674 has 5 MA's), (Start: 108 @45629 has 96 MA's), (118, 45608),

Gene: Sachima_83 Start: 47953, Stop: 47669, Start Num: 100
Candidate Starts for Sachima_83:
(Start: 100 @47953 has 17 MA's), (121, 47914), (148, 47818),

Gene: Sagefire_73 Start: 46922, Stop: 46623, Start Num: 88
Candidate Starts for Sagefire_73:
(Start: 59 @46982 has 1 MA's), (Start: 88 @46922 has 203 MA's), (117, 46877), (118, 46874), (143, 46805), (151, 46754),

Gene: Salz_79 Start: 45184, Stop: 44888, Start Num: 93
Candidate Starts for Salz_79:
(Start: 93 @45184 has 24 MA's), (99, 45175), (118, 45145), (121, 45136), (148, 45046),

Gene: Sandaddy_74 Start: 47254, Stop: 46955, Start Num: 88
Candidate Starts for Sandaddy_74:
(Start: 69 @47284 has 5 MA's), (Start: 88 @47254 has 203 MA's), (117, 47209), (118, 47206), (143, 47137), (151, 47086),

Gene: Sanya_71 Start: 47559, Stop: 47260, Start Num: 88
Candidate Starts for Sanya_71:
(Start: 59 @47619 has 1 MA's), (Start: 88 @47559 has 203 MA's), (117, 47514), (118, 47511), (143, 47442),

Gene: SarFire_80 Start: 48896, Stop: 48597, Start Num: 88
Candidate Starts for SarFire_80:
(Start: 59 @48956 has 1 MA's), (Start: 88 @48896 has 203 MA's), (117, 48851), (118, 48848), (143, 48779), (151, 48728),

Gene: SaturnRing_79 Start: 46036, Stop: 45764, Start Num: 108
Candidate Starts for SaturnRing_79:
(Start: 108 @46036 has 96 MA's),

Gene: Scamp_75 Start: 45649, Stop: 45350, Start Num: 71
Candidate Starts for Scamp_75:
(Start: 71 @45649 has 120 MA's), (Start: 109 @45607 has 7 MA's),

Gene: Scherzo_85 Start: 47952, Stop: 47689, Start Num: 113
Candidate Starts for Scherzo_85:
(Start: 100 @47970 has 17 MA's), (Start: 113 @47952 has 18 MA's), (121, 47931), (148, 47835),

Gene: Scout_78 Start: 45217, Stop: 44933, Start Num: 108
Candidate Starts for Scout_78:
(Start: 108 @45217 has 96 MA's), (154, 45013),

Gene: Scowl_77 Start: 47219, Stop: 46920, Start Num: 88
Candidate Starts for Scowl_77:
(Start: 59 @47279 has 1 MA's), (Start: 88 @47219 has 203 MA's), (117, 47174), (118, 47171), (143, 47102), (151, 47051),

Gene: Seabiscuit_77 Start: 46319, Stop: 46020, Start Num: 88
Candidate Starts for Seabiscuit_77:
(Start: 59 @46379 has 1 MA's), (Start: 88 @46319 has 203 MA's), (117, 46274), (118, 46271), (143, 46202), (151, 46151),

Gene: Seanderson_76 Start: 48623, Stop: 48324, Start Num: 88
Candidate Starts for Seanderson_76:

(Start: 59 @48683 has 1 MA's), (Start: 88 @48623 has 203 MA's), (117, 48578), (118, 48575), (143, 48506), (151, 48455),

Gene: SemperFi_83 Start: 47653, Stop: 47345, Start Num: 76

Candidate Starts for SemperFi_83:

(Start: 76 @47653 has 40 MA's), (110, 47605), (117, 47590), (140, 47548), (155, 47431),

Gene: SenorClean_70 Start: 45647, Stop: 45348, Start Num: 71

Candidate Starts for SenorClean_70:

(Start: 71 @45647 has 120 MA's), (Start: 109 @45605 has 7 MA's),

Gene: Severus_81 Start: 47539, Stop: 47252, Start Num: 98

Candidate Starts for Severus_81:

(1, 48346), (2, 48325), (3, 48313), (13, 47899), (18, 47803), (Start: 98 @47539 has 12 MA's), (111, 47524), (121, 47506),

Gene: Shaka_73 Start: 45645, Stop: 45346, Start Num: 71

Candidate Starts for Shaka_73:

(Start: 71 @45645 has 120 MA's), (Start: 109 @45603 has 7 MA's),

Gene: Sham4_80 Start: 45270, Stop: 44971, Start Num: 93

Candidate Starts for Sham4_80:

(Start: 93 @45270 has 24 MA's), (99, 45261), (118, 45231), (121, 45222), (148, 45132),

Gene: Shapes_86 Start: 48631, Stop: 48341, Start Num: 98

Candidate Starts for Shapes_86:

(Start: 98 @48631 has 12 MA's),

Gene: SheaKeira_82 Start: 47212, Stop: 46940, Start Num: 100

Candidate Starts for SheaKeira_82:

(Start: 100 @47212 has 17 MA's), (Start: 113 @47194 has 18 MA's), (121, 47173),

Gene: Sheen_75 Start: 48554, Stop: 48285, Start Num: 103

Candidate Starts for Sheen_75:

(27, 48746), (31, 48728), (46, 48674), (48, 48671), (Start: 103 @48554 has 23 MA's), (110, 48542), (126, 48506), (130, 48500), (142, 48464), (148, 48425), (151, 48401),

Gene: SheldonCooper_75 Start: 46085, Stop: 45786, Start Num: 71

Candidate Starts for SheldonCooper_75:

(Start: 71 @46085 has 120 MA's), (Start: 109 @46043 has 7 MA's),

Gene: ShortQueendom_69 Start: 44928, Stop: 44629, Start Num: 88

Candidate Starts for ShortQueendom_69:

(Start: 59 @44988 has 1 MA's), (Start: 88 @44928 has 203 MA's), (117, 44883), (118, 44880), (143, 44811), (151, 44760),

Gene: Shygu2_74 Start: 45745, Stop: 45449, Start Num: 71

Candidate Starts for Shygu2_74:

(Start: 71 @45745 has 120 MA's), (Start: 109 @45703 has 7 MA's), (144, 45625),

Gene: Sibs6_76 Start: 44568, Stop: 44269, Start Num: 88

Candidate Starts for Sibs6_76:

(Start: 69 @44598 has 5 MA's), (Start: 88 @44568 has 203 MA's), (117, 44523), (118, 44520), (143, 44451), (151, 44400),

Gene: SkiPole_85 Start: 48224, Stop: 47925, Start Num: 88

Candidate Starts for SkiPole_85:

(Start: 59 @48284 has 1 MA's), (Start: 88 @48224 has 203 MA's), (117, 48179), (118, 48176), (143, 48107), (151, 48056),

Gene: Skipitt_74 Start: 45641, Stop: 45342, Start Num: 71

Candidate Starts for Skipitt_74:

(Start: 71 @45641 has 120 MA's), (Start: 109 @45599 has 7 MA's),

Gene: Sknot_83 Start: 47264, Stop: 46953, Start Num: 76

Candidate Starts for Sknot_83:

(Start: 76 @47264 has 40 MA's), (83, 47252), (106, 47222), (110, 47216), (117, 47201),

Gene: Slagathor_77 Start: 48080, Stop: 47781, Start Num: 88

Candidate Starts for Slagathor_77:

(Start: 59 @48140 has 1 MA's), (Start: 88 @48080 has 203 MA's), (117, 48035), (118, 48032), (143, 47963), (151, 47912),

Gene: Smairt_80 Start: 49688, Stop: 49389, Start Num: 88

Candidate Starts for Smairt_80:

(Start: 69 @49718 has 5 MA's), (Start: 88 @49688 has 203 MA's), (117, 49643), (118, 49640), (143, 49571), (151, 49520),

Gene: Smeagan_86 Start: 48201, Stop: 47893, Start Num: 73

Candidate Starts for Smeagan_86:

(Start: 73 @48201 has 13 MA's), (Start: 76 @48198 has 40 MA's), (106, 48156), (110, 48150), (117, 48135), (155, 47976),

Gene: Smeagol_79 Start: 49291, Stop: 48989, Start Num: 88

Candidate Starts for Smeagol_79:

(Start: 88 @49291 has 203 MA's), (118, 49243), (123, 49231), (126, 49228), (148, 49144), (151, 49120),

Gene: SnapTap_83 Start: 47624, Stop: 47316, Start Num: 76

Candidate Starts for SnapTap_83:

(Start: 76 @47624 has 40 MA's), (110, 47576), (117, 47561), (140, 47519), (155, 47402),

Gene: Snape_84 Start: 46377, Stop: 46081, Start Num: 93

Candidate Starts for Snape_84:

(Start: 93 @46377 has 24 MA's), (99, 46368), (118, 46338), (121, 46329), (148, 46239),

Gene: Snazzy_77 Start: 47731, Stop: 47432, Start Num: 88

Candidate Starts for Snazzy_77:

(Start: 59 @47791 has 1 MA's), (Start: 88 @47731 has 203 MA's), (117, 47686), (118, 47683), (143, 47614), (151, 47563),

Gene: Snickers_76 Start: 45600, Stop: 45337, Start Num: 108

Candidate Starts for Snickers_76:

(Start: 68 @45663 has 3 MA's), (Start: 77 @45645 has 5 MA's), (Start: 108 @45600 has 96 MA's), (118, 45579),

Gene: SoYo_77 Start: 45543, Stop: 45280, Start Num: 108
Candidate Starts for SoYo_77:
(Start: 68 @45606 has 3 MA's), (Start: 77 @45588 has 5 MA's), (Start: 108 @45543 has 96 MA's),
(118, 45522),

Gene: SoilDragon_80 Start: 45070, Stop: 44807, Start Num: 108
Candidate Starts for SoilDragon_80:
(Start: 68 @45133 has 3 MA's), (Start: 77 @45115 has 5 MA's), (Start: 108 @45070 has 96 MA's),
(118, 45049),

Gene: Solon_72 Start: 45366, Stop: 45067, Start Num: 88
Candidate Starts for Solon_72:
(Start: 59 @45426 has 1 MA's), (Start: 88 @45366 has 203 MA's), (117, 45321), (118, 45318), (143,
45249), (151, 45198),

Gene: SororFago_82 Start: 47294, Stop: 47022, Start Num: 109
Candidate Starts for SororFago_82:
(44, 47426), (49, 47414), (Start: 109 @47294 has 7 MA's), (123, 47258), (125, 47255), (141, 47210),

Gene: Sorpresa_75 Start: 47260, Stop: 46961, Start Num: 88
Candidate Starts for Sorpresa_75:
(Start: 69 @47290 has 5 MA's), (Start: 88 @47260 has 203 MA's), (117, 47215), (118, 47212), (143,
47143), (151, 47092),

Gene: Soshari_82 Start: 45651, Stop: 45388, Start Num: 108
Candidate Starts for Soshari_82:
(Start: 68 @45714 has 3 MA's), (Start: 77 @45696 has 5 MA's), (Start: 108 @45651 has 96 MA's),
(118, 45630),

Gene: Sparxx_76 Start: 45643, Stop: 45344, Start Num: 71
Candidate Starts for Sparxx_76:
(Start: 71 @45643 has 120 MA's), (Start: 109 @45601 has 7 MA's),

Gene: Spike509_80 Start: 45652, Stop: 45389, Start Num: 108
Candidate Starts for Spike509_80:
(Start: 68 @45715 has 3 MA's), (Start: 77 @45697 has 5 MA's), (Start: 108 @45652 has 96 MA's),
(118, 45631),

Gene: SpikeBT_73 Start: 46188, Stop: 45889, Start Num: 88
Candidate Starts for SpikeBT_73:
(Start: 69 @46218 has 5 MA's), (Start: 88 @46188 has 203 MA's), (117, 46143), (118, 46140), (143,
46071), (151, 46020),

Gene: Spino_74 Start: 45647, Stop: 45348, Start Num: 71
Candidate Starts for Spino_74:
(Start: 71 @45647 has 120 MA's), (Start: 109 @45605 has 7 MA's),

Gene: Spouty_85 Start: 47708, Stop: 47427, Start Num: 100
Candidate Starts for Spouty_85:
(Start: 100 @47708 has 17 MA's), (Start: 113 @47690 has 18 MA's), (121, 47669), (148, 47573),

Gene: Squee_77 Start: 46804, Stop: 46505, Start Num: 88

Candidate Starts for Squee_77:

(Start: 59 @46864 has 1 MA's), (Start: 88 @46804 has 203 MA's), (117, 46759), (118, 46756), (143, 46687), (151, 46636),

Gene: Stagni_77 Start: 45630, Stop: 45367, Start Num: 108

Candidate Starts for Stagni_77:

(Start: 68 @45693 has 3 MA's), (Start: 77 @45675 has 5 MA's), (Start: 108 @45630 has 96 MA's),

Gene: StarStuff_83 Start: 47232, Stop: 46954, Start Num: 103

Candidate Starts for StarStuff_83:

(Start: 103 @47232 has 23 MA's), (119, 47199), (121, 47193), (152, 47058),

Gene: Stasia_73 Start: 45644, Stop: 45327, Start Num: 67

Candidate Starts for Stasia_73:

(17, 45875), (35, 45752), (64, 45659), (Start: 67 @45644 has 1 MA's), (Start: 69 @45641 has 5 MA's), (Start: 71 @45638 has 120 MA's), (Start: 107 @45599 has 12 MA's),

Gene: Steamy_75 Start: 46308, Stop: 46036, Start Num: 104

Candidate Starts for Steamy_75:

(Start: 104 @46308 has 5 MA's), (Start: 122 @46269 has 2 MA's), (124, 46263),

Gene: StepMih_80 Start: 45621, Stop: 45358, Start Num: 108

Candidate Starts for StepMih_80:

(Start: 68 @45684 has 3 MA's), (Start: 77 @45666 has 5 MA's), (Start: 108 @45621 has 96 MA's),

Gene: StewieG_72 Start: 44368, Stop: 44039, Start Num: 69

Candidate Starts for StewieG_72:

(Start: 69 @44368 has 5 MA's), (Start: 88 @44338 has 203 MA's), (117, 44293), (118, 44290), (143, 44221), (151, 44170),

Gene: Stink_74 Start: 45501, Stop: 45226, Start Num: 107

Candidate Starts for Stink_74:

(30, 45666), (90, 45522), (Start: 107 @45501 has 12 MA's), (115, 45483), (143, 45414), (153, 45315),

Gene: StrongArm_72 Start: 46736, Stop: 46437, Start Num: 88

Candidate Starts for StrongArm_72:

(Start: 59 @46796 has 1 MA's), (Start: 88 @46736 has 203 MA's), (117, 46691), (118, 46688), (143, 46619), (151, 46568),

Gene: Sumter_73 Start: 47729, Stop: 47430, Start Num: 88

Candidate Starts for Sumter_73:

(Start: 69 @47759 has 5 MA's), (Start: 88 @47729 has 203 MA's), (117, 47684), (118, 47681), (143, 47612), (151, 47561),

Gene: Sunhee_83 Start: 45554, Stop: 45309, Start Num: 121

Candidate Starts for Sunhee_83:

(Start: 109 @45584 has 7 MA's), (121, 45554), (123, 45548), (125, 45545), (133, 45530), (141, 45500),

Gene: Sunshine924_77 Start: 46251, Stop: 45952, Start Num: 88

Candidate Starts for Sunshine924_77:

(Start: 88 @46251 has 203 MA's), (117, 46206), (118, 46203), (143, 46134), (151, 46083),

Gene: SuperAwesome_83 Start: 46235, Stop: 45945, Start Num: 80

Candidate Starts for SuperAwesome_83:

(29, 46379), (37, 46349), (61, 46283), (63, 46277), (Start: 80 @46235 has 4 MA's), (Start: 109 @46193 has 7 MA's), (110, 46190), (Start: 113 @46184 has 18 MA's), (114, 46181), (118, 46172), (144, 46115),

Gene: SuperCallie99_80 Start: 46034, Stop: 45786, Start Num: 109

Candidate Starts for SuperCallie99_80:

(Start: 80 @46076 has 4 MA's), (Start: 109 @46034 has 7 MA's), (110, 46031), (Start: 113 @46025 has 18 MA's), (114, 46022), (118, 46013), (144, 45956),

Gene: SweetiePie_83 Start: 47757, Stop: 47449, Start Num: 76

Candidate Starts for SweetiePie_83:

(Start: 76 @47757 has 40 MA's), (110, 47709), (117, 47694), (140, 47652), (155, 47535),

Gene: Swirley_70 Start: 44157, Stop: 43861, Start Num: 89

Candidate Starts for Swirley_70:

(Start: 89 @44157 has 11 MA's), (102, 44136), (Start: 109 @44130 has 7 MA's), (152, 43977),

Gene: SwissCheese_80 Start: 47251, Stop: 46952, Start Num: 88

Candidate Starts for SwissCheese_80:

(Start: 69 @47281 has 5 MA's), (Start: 88 @47251 has 203 MA's), (117, 47206), (118, 47203), (143, 47134), (151, 47083),

Gene: Switzer_75 Start: 47195, Stop: 46896, Start Num: 88

Candidate Starts for Switzer_75:

(Start: 59 @47255 has 1 MA's), (Start: 88 @47195 has 203 MA's), (117, 47150), (118, 47147), (143, 47078), (151, 47027),

Gene: Swole_77 Start: 47010, Stop: 46711, Start Num: 88

Candidate Starts for Swole_77:

(Start: 69 @47040 has 5 MA's), (Start: 88 @47010 has 203 MA's), (117, 46965), (118, 46962), (143, 46893), (151, 46842),

Gene: SydNat_70 Start: 44362, Stop: 44045, Start Num: 87

Candidate Starts for SydNat_70:

(56, 44434), (74, 44383), (79, 44374), (Start: 87 @44362 has 8 MA's), (Start: 92 @44356 has 2 MA's), (114, 44320), (119, 44308),

Gene: TNguyen7_80 Start: 45994, Stop: 45722, Start Num: 108

Candidate Starts for TNguyen7_80:

(Start: 108 @45994 has 96 MA's),

Gene: Taquarus_74 Start: 45650, Stop: 45351, Start Num: 71

Candidate Starts for Taquarus_74:

(Start: 71 @45650 has 120 MA's), (Start: 109 @45608 has 7 MA's),

Gene: Target_76 Start: 45828, Stop: 45529, Start Num: 88

Candidate Starts for Target_76:

(Start: 59 @45888 has 1 MA's), (Start: 88 @45828 has 203 MA's), (117, 45783), (118, 45780), (143, 45711), (146, 45699), (151, 45660),

Gene: TarsusIV_82 Start: 47656, Stop: 47333, Start Num: 76

Candidate Starts for TarsusIV_82:

(16, 47893), (Start: 76 @47656 has 40 MA's), (106, 47617), (110, 47611),

Gene: Tarynearal_69 Start: 43993, Stop: 43697, Start Num: 89

Candidate Starts for Tarynearal_69:

(Start: 89 @43993 has 11 MA's), (102, 43972), (Start: 109 @43966 has 7 MA's), (121, 43936), (152, 43813),

Gene: Tasp14_75 Start: 47298, Stop: 46999, Start Num: 88

Candidate Starts for Tasp14_75:

(Start: 69 @47328 has 5 MA's), (Start: 88 @47298 has 203 MA's), (117, 47253), (118, 47250), (143, 47181), (151, 47130),

Gene: Taurus_81 Start: 45630, Stop: 45367, Start Num: 108

Candidate Starts for Taurus_81:

(Start: 68 @45693 has 3 MA's), (Start: 77 @45675 has 5 MA's), (Start: 108 @45630 has 96 MA's), (118, 45609),

Gene: Temprado_85 Start: 45929, Stop: 45678, Start Num: 113

Candidate Starts for Temprado_85:

(17, 46241), (22, 46184), (23, 46181), (28, 46136), (66, 46013), (Start: 107 @45941 has 12 MA's), (Start: 113 @45929 has 18 MA's), (116, 45923), (136, 45884),

Gene: Teodoridan_74 Start: 45135, Stop: 44836, Start Num: 88

Candidate Starts for Teodoridan_74:

(Start: 59 @45195 has 1 MA's), (Start: 88 @45135 has 203 MA's), (117, 45090), (118, 45087), (143, 45018), (151, 44967),

Gene: Terrific_84 Start: 47238, Stop: 46927, Start Num: 76

Candidate Starts for Terrific_84:

(Start: 76 @47238 has 40 MA's), (83, 47226), (106, 47196), (110, 47190), (117, 47175),

Gene: Texage_77 Start: 45999, Stop: 45721, Start Num: 108

Candidate Starts for Texage_77:

(Start: 89 @46020 has 11 MA's), (Start: 103 @46002 has 23 MA's), (Start: 108 @45999 has 96 MA's),

Gene: Thanksgivukkah_74 Start: 45645, Stop: 45346, Start Num: 71

Candidate Starts for Thanksgivukkah_74:

(Start: 71 @45645 has 120 MA's), (Start: 109 @45603 has 7 MA's),

Gene: Theia_69 Start: 44485, Stop: 44186, Start Num: 87

Candidate Starts for Theia_69:

(79, 44497), (Start: 87 @44485 has 8 MA's), (Start: 92 @44479 has 2 MA's), (114, 44443), (119, 44431), (148, 44341), (152, 44302),

Gene: TheloniousMonk_78 Start: 48520, Stop: 48221, Start Num: 88

Candidate Starts for TheloniousMonk_78:

(Start: 59 @48580 has 1 MA's), (Start: 88 @48520 has 203 MA's), (117, 48475), (118, 48472), (143, 48403), (151, 48352),

Gene: Thor_80 Start: 48254, Stop: 47955, Start Num: 88

Candidate Starts for Thor_80:

(Start: 59 @48314 has 1 MA's), (Start: 88 @48254 has 203 MA's), (117, 48209), (118, 48206), (143, 48137), (151, 48086),

Gene: Tiffany_79 Start: 45515, Stop: 45252, Start Num: 108

Candidate Starts for Tiffany_79:

(Start: 68 @45578 has 3 MA's), (Start: 77 @45560 has 5 MA's), (Start: 108 @45515 has 96 MA's), (118, 45494),

Gene: Timothy_84 Start: 46354, Stop: 46058, Start Num: 93

Candidate Starts for Timothy_84:

(Start: 93 @46354 has 24 MA's), (99, 46345), (101, 46342), (118, 46315), (121, 46306), (148, 46216),

Gene: TinaFeyge_73 Start: 45642, Stop: 45343, Start Num: 71

Candidate Starts for TinaFeyge_73:

(Start: 71 @45642 has 120 MA's), (Start: 109 @45600 has 7 MA's),

Gene: TinyPebbles_76 Start: 45659, Stop: 45396, Start Num: 108

Candidate Starts for TinyPebbles_76:

(Start: 68 @45722 has 3 MA's), (Start: 77 @45704 has 5 MA's), (Start: 108 @45659 has 96 MA's), (118, 45638),

Gene: TinyTimmy_82 Start: 46083, Stop: 45787, Start Num: 93

Candidate Starts for TinyTimmy_82:

(Start: 93 @46083 has 24 MA's), (99, 46074), (101, 46071), (118, 46044), (121, 46035), (148, 45945),

Gene: Tinybot_74 Start: 45674, Stop: 45375, Start Num: 71

Candidate Starts for Tinybot_74:

(Start: 71 @45674 has 120 MA's), (Start: 109 @45632 has 7 MA's),

Gene: TopsytheTRex_82 Start: 46857, Stop: 46582, Start Num: 103

Candidate Starts for TopsytheTRex_82:

(20, 47106), (Start: 103 @46857 has 23 MA's), (117, 46830), (119, 46824), (121, 46818),

Gene: TiroTheta9_74 Start: 45641, Stop: 45342, Start Num: 71

Candidate Starts for TiroTheta9_74:

(Start: 71 @45641 has 120 MA's), (Start: 109 @45599 has 7 MA's),

Gene: Toaka_85 Start: 47815, Stop: 47546, Start Num: 100

Candidate Starts for Toaka_85:

(Start: 100 @47815 has 17 MA's), (Start: 113 @47797 has 18 MA's), (121, 47776), (149, 47677),

Gene: Todacoro_79 Start: 45998, Stop: 45720, Start Num: 108

Candidate Starts for Todacoro_79:

(Start: 89 @46019 has 11 MA's), (Start: 103 @46001 has 23 MA's), (Start: 108 @45998 has 96 MA's), (118, 45980),

Gene: Tomathan_83 Start: 47310, Stop: 47032, Start Num: 103

Candidate Starts for Tomathan_83:

(Start: 103 @47310 has 23 MA's), (119, 47277), (121, 47271), (152, 47136),

Gene: Topanga_73 Start: 45266, Stop: 44976, Start Num: 105

Candidate Starts for Topanga_73:

(Start: 78 @45299 has 1 MA's), (Start: 105 @45266 has 3 MA's),

Gene: Topgun_72 Start: 45472, Stop: 45173, Start Num: 88

Candidate Starts for Topgun_72:

(Start: 59 @45532 has 1 MA's), (Start: 88 @45472 has 203 MA's), (117, 45427), (118, 45424), (143, 45355), (151, 45304),

Gene: Toro_76 Start: 49217, Stop: 48948, Start Num: 103

Candidate Starts for Toro_76:

(27, 49409), (31, 49391), (46, 49337), (48, 49334), (Start: 103 @49217 has 23 MA's), (110, 49205), (118, 49187), (126, 49169), (130, 49163), (142, 49127), (148, 49088), (151, 49064),

Gene: Tote_72 Start: 44278, Stop: 43979, Start Num: 88

Candidate Starts for Tote_72:

(Start: 69 @44308 has 5 MA's), (Start: 88 @44278 has 203 MA's), (117, 44233), (118, 44230), (143, 44161), (151, 44110),

Gene: Traft412_76 Start: 47553, Stop: 47254, Start Num: 88

Candidate Starts for Traft412_76:

(Start: 59 @47613 has 1 MA's), (Start: 88 @47553 has 203 MA's), (117, 47508), (118, 47505), (143, 47436), (151, 47385),

Gene: Travvers_83 Start: 47227, Stop: 46949, Start Num: 103

Candidate Starts for Travvers_83:

(Start: 103 @47227 has 23 MA's), (119, 47194), (121, 47188), (152, 47053),

Gene: Treddle_78 Start: 48283, Stop: 47984, Start Num: 88

Candidate Starts for Treddle_78:

(Start: 59 @48343 has 1 MA's), (Start: 88 @48283 has 203 MA's), (117, 48238), (118, 48235), (143, 48166), (151, 48115),

Gene: Tripl3t_79 Start: 49835, Stop: 49536, Start Num: 88

Candidate Starts for Tripl3t_79:

(Start: 88 @49835 has 203 MA's), (117, 49790), (118, 49787), (143, 49718), (151, 49667),

Gene: Tristan_78 Start: 47933, Stop: 47640, Start Num: 77

Candidate Starts for Tristan_78:

(Start: 77 @47933 has 5 MA's), (Start: 113 @47897 has 18 MA's), (119, 47882),

Gene: Trixie_83 Start: 48218, Stop: 47910, Start Num: 77

Candidate Starts for Trixie_83:

(Start: 77 @48218 has 5 MA's), (106, 48179), (Start: 109 @48176 has 7 MA's),

Gene: Trooper_82 Start: 47215, Stop: 46895, Start Num: 76

Candidate Starts for Trooper_82:

(Start: 76 @47215 has 40 MA's), (110, 47167), (Start: 113 @47161 has 18 MA's), (155, 46984),

Gene: Trouble_76 Start: 47362, Stop: 47063, Start Num: 88

Candidate Starts for Trouble_76:

(21, 47569), (24, 47542), (27, 47521), (32, 47500), (34, 47497), (39, 47470), (43, 47458), (47, 47449), (52, 47434), (Start: 73 @47380 has 13 MA's), (Start: 88 @47362 has 203 MA's), (117, 47317), (118, 47314), (143, 47245), (151, 47194),

Gene: TroyPia_76 Start: 45682, Stop: 45383, Start Num: 71

Candidate Starts for TroyPia_76:

(Start: 71 @45682 has 120 MA's), (Start: 109 @45640 has 7 MA's),

Gene: Tubs_87 Start: 47925, Stop: 47641, Start Num: 100

Candidate Starts for Tubs_87:

(Start: 100 @47925 has 17 MA's), (Start: 113 @47907 has 18 MA's), (121, 47886), (148, 47790),

Gene: Tucker_84 Start: 45704, Stop: 45441, Start Num: 107

Candidate Starts for Tucker_84:

(17, 46004), (22, 45947), (23, 45944), (28, 45899), (66, 45776), (Start: 107 @45704 has 12 MA's),
(Start: 113 @45692 has 18 MA's), (116, 45686), (136, 45647),

Gene: Turbido_84 Start: 47922, Stop: 47614, Start Num: 73

Candidate Starts for Turbido_84:

(Start: 73 @47922 has 13 MA's), (Start: 76 @47919 has 40 MA's), (106, 47877), (110, 47871), (117,
47856), (155, 47697),

Gene: Turj99_72 Start: 46853, Stop: 46554, Start Num: 88

Candidate Starts for Turj99_72:

(Start: 88 @46853 has 203 MA's), (117, 46808), (118, 46805), (151, 46685),

Gene: Twigg_67 Start: 43805, Stop: 43509, Start Num: 89

Candidate Starts for Twigg_67:

(Start: 89 @43805 has 11 MA's), (102, 43784), (Start: 109 @43778 has 7 MA's), (152, 43625),

Gene: Twister_84 Start: 48480, Stop: 48184, Start Num: 105

Candidate Starts for Twister_84:

(Start: 78 @48513 has 1 MA's), (Start: 105 @48480 has 3 MA's),

Gene: TwoPeat_76 Start: 46815, Stop: 46516, Start Num: 88

Candidate Starts for TwoPeat_76:

(Start: 59 @46875 has 1 MA's), (Start: 88 @46815 has 203 MA's), (117, 46770), (118, 46767), (126,
46752), (143, 46698), (151, 46647),

Gene: TygerBlood_75 Start: 45647, Stop: 45348, Start Num: 71

Candidate Starts for TygerBlood_75:

(Start: 71 @45647 has 120 MA's), (Start: 109 @45605 has 7 MA's),

Gene: U2_70 Start: 47052, Stop: 46753, Start Num: 88

Candidate Starts for U2_70:

(Start: 69 @47082 has 5 MA's), (Start: 88 @47052 has 203 MA's), (117, 47007), (118, 47004), (143,
46935), (151, 46884),

Gene: Ugenie5_74 Start: 45396, Stop: 45133, Start Num: 113

Candidate Starts for Ugenie5_74:

(Start: 100 @45414 has 17 MA's), (Start: 113 @45396 has 18 MA's), (121, 45375), (148, 45279),

Gene: Ulysses_74 Start: 45330, Stop: 45031, Start Num: 71

Candidate Starts for Ulysses_74:

(Start: 71 @45330 has 120 MA's), (Start: 109 @45288 has 7 MA's),

Gene: Updawg_84 Start: 47452, Stop: 47141, Start Num: 76

Candidate Starts for Updawg_84:

(Start: 76 @47452 has 40 MA's), (83, 47440), (106, 47410), (110, 47404), (117, 47389),

Gene: VA6_83 Start: 47497, Stop: 47174, Start Num: 68
Candidate Starts for VA6_83:
(12, 47827), (14, 47800), (36, 47590), (Start: 68 @47497 has 3 MA's), (70, 47494), (110, 47446), (117, 47431), (140, 47389),

Gene: VC3_81 Start: 46132, Stop: 45854, Start Num: 103
Candidate Starts for VC3_81:
(Start: 103 @46132 has 23 MA's), (119, 46099), (121, 46093), (152, 45958),

Gene: Vanisoa_82 Start: 48147, Stop: 47884, Start Num: 100
Candidate Starts for Vanisoa_82:
(Start: 100 @48147 has 17 MA's), (121, 48114), (149, 48015),

Gene: Veracruz_76 Start: 46002, Stop: 45721, Start Num: 103
Candidate Starts for Veracruz_76:
(Start: 89 @46020 has 11 MA's), (Start: 103 @46002 has 23 MA's), (Start: 108 @45999 has 96 MA's), (118, 45981),

Gene: Violet_71 Start: 47447, Stop: 47148, Start Num: 88
Candidate Starts for Violet_71:
(Start: 59 @47507 has 1 MA's), (Start: 88 @47447 has 203 MA's), (117, 47402), (118, 47399), (143, 47330), (151, 47279),

Gene: Vix_76 Start: 45710, Stop: 45447, Start Num: 108
Candidate Starts for Vix_76:
(Start: 68 @45773 has 3 MA's), (Start: 77 @45755 has 5 MA's), (Start: 108 @45710 has 96 MA's), (118, 45689),

Gene: WalterMcMickey_83 Start: 48480, Stop: 48184, Start Num: 105
Candidate Starts for WalterMcMickey_83:
(Start: 78 @48513 has 1 MA's), (Start: 105 @48480 has 3 MA's),

Gene: Wander_75 Start: 45641, Stop: 45342, Start Num: 71
Candidate Starts for Wander_75:
(Start: 71 @45641 has 120 MA's), (Start: 109 @45599 has 7 MA's),

Gene: Watermelon_79 Start: 48357, Stop: 48058, Start Num: 88
Candidate Starts for Watermelon_79:
(Start: 69 @48387 has 5 MA's), (Start: 88 @48357 has 203 MA's), (117, 48312), (118, 48309), (143, 48240), (151, 48189),

Gene: Watson_79 Start: 45664, Stop: 45356, Start Num: 77
Candidate Starts for Watson_79:
(Start: 68 @45682 has 3 MA's), (Start: 77 @45664 has 5 MA's), (Start: 108 @45619 has 96 MA's),

Gene: WeiHuaDA_85 Start: 48465, Stop: 48169, Start Num: 88
Candidate Starts for WeiHuaDA_85:
(4, 49035), (16, 48720), (Start: 76 @48480 has 40 MA's), (Start: 88 @48465 has 203 MA's), (106, 48441), (117, 48420), (140, 48378),

Gene: Whabigail7_83 Start: 47920, Stop: 47612, Start Num: 73
Candidate Starts for Whabigail7_83:

(Start: 73 @47920 has 13 MA's), (Start: 76 @47917 has 40 MA's), (110, 47869), (117, 47854), (155, 47695),

Gene: Wheeler_81 Start: 49068, Stop: 48769, Start Num: 88

Candidate Starts for Wheeler_81:

(Start: 88 @49068 has 203 MA's), (117, 49023), (118, 49020), (143, 48951), (151, 48900),

Gene: WideWale_84 Start: 47452, Stop: 47141, Start Num: 76

Candidate Starts for WideWale_84:

(Start: 76 @47452 has 40 MA's), (83, 47440), (106, 47410), (110, 47404), (117, 47389),

Gene: Wiks_83 Start: 45572, Stop: 45309, Start Num: 107

Candidate Starts for Wiks_83:

(17, 45872), (22, 45815), (23, 45812), (28, 45767), (66, 45644), (Start: 107 @45572 has 12 MA's), (Start: 113 @45560 has 18 MA's), (116, 45554), (136, 45515),

Gene: Wilbur_75 Start: 45644, Stop: 45345, Start Num: 71

Candidate Starts for Wilbur_75:

(Start: 71 @45644 has 120 MA's), (Start: 109 @45602 has 7 MA's),

Gene: Wilkins_73 Start: 45402, Stop: 45103, Start Num: 88

Candidate Starts for Wilkins_73:

(Start: 59 @45462 has 1 MA's), (Start: 88 @45402 has 203 MA's), (117, 45357), (118, 45354), (143, 45285), (151, 45234),

Gene: Wooldri_82 Start: 45536, Stop: 45273, Start Num: 108

Candidate Starts for Wooldri_82:

(Start: 68 @45599 has 3 MA's), (Start: 77 @45581 has 5 MA's), (Start: 108 @45536 has 96 MA's), (118, 45515),

Gene: XianYue_82 Start: 47707, Stop: 47390, Start Num: 73

Candidate Starts for XianYue_82:

(9, 48094), (16, 47950), (Start: 73 @47707 has 13 MA's), (Start: 104 @47671 has 5 MA's), (154, 47482),

Gene: YoSam321_75 Start: 45642, Stop: 45343, Start Num: 71

Candidate Starts for YoSam321_75:

(Start: 71 @45642 has 120 MA's), (Start: 109 @45600 has 7 MA's),

Gene: Yokurt_83 Start: 45572, Stop: 45309, Start Num: 107

Candidate Starts for Yokurt_83:

(17, 45872), (22, 45815), (23, 45812), (28, 45767), (66, 45644), (Start: 107 @45572 has 12 MA's), (Start: 113 @45560 has 18 MA's), (116, 45554), (136, 45515),

Gene: Zaka_84 Start: 45572, Stop: 45309, Start Num: 107

Candidate Starts for Zaka_84:

(17, 45872), (22, 45815), (23, 45812), (28, 45767), (66, 45644), (Start: 107 @45572 has 12 MA's), (Start: 113 @45560 has 18 MA's), (116, 45554), (136, 45515),

Gene: Zeeculate_72 Start: 47175, Stop: 46876, Start Num: 88

Candidate Starts for Zeeculate_72:

(Start: 69 @47205 has 5 MA's), (Start: 88 @47175 has 203 MA's), (117, 47130), (118, 47127), (143, 47058), (151, 47007),

Gene: Zephyr_78 Start: 47447, Stop: 47148, Start Num: 88

Candidate Starts for Zephyr_78:

(Start: 59 @47507 has 1 MA's), (Start: 88 @47447 has 203 MA's), (117, 47402), (118, 47399), (143, 47330), (151, 47279),

Gene: Zimmer_79 Start: 47067, Stop: 46792, Start Num: 104

Candidate Starts for Zimmer_79:

(Start: 104 @47067 has 5 MA's), (115, 47046), (117, 47043), (118, 47040), (124, 47022), (131, 47010),

Gene: Zolita_69 Start: 44339, Stop: 44049, Start Num: 92

Candidate Starts for Zolita_69:

(56, 44417), (74, 44366), (79, 44357), (Start: 87 @44345 has 8 MA's), (Start: 92 @44339 has 2 MA's), (114, 44303), (119, 44291),

Gene: Zulu_85 Start: 45950, Stop: 45687, Start Num: 107

Candidate Starts for Zulu_85:

(17, 46250), (22, 46193), (23, 46190), (28, 46145), (66, 46022), (Start: 107 @45950 has 12 MA's), (Start: 113 @45938 has 18 MA's), (116, 45932), (136, 45893),