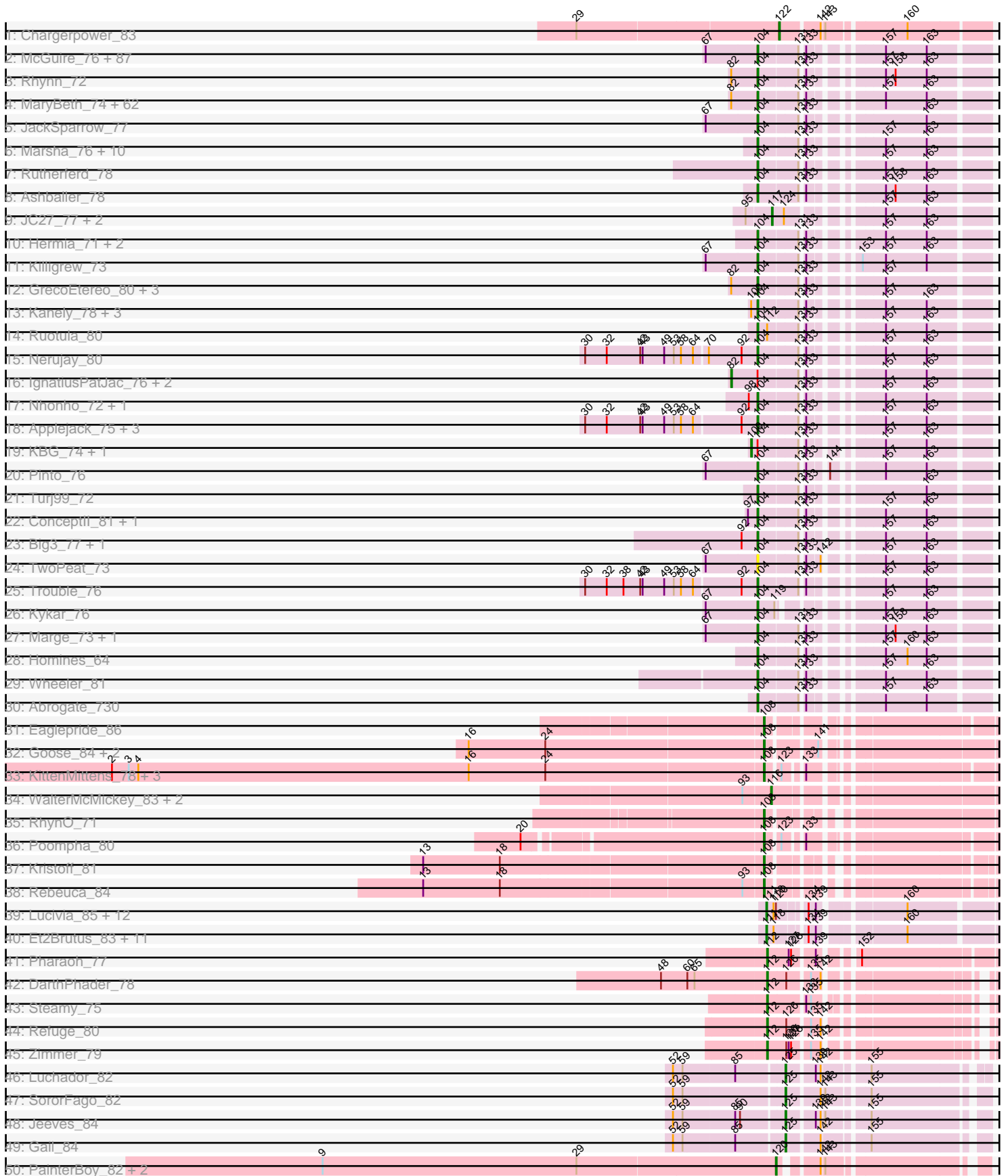


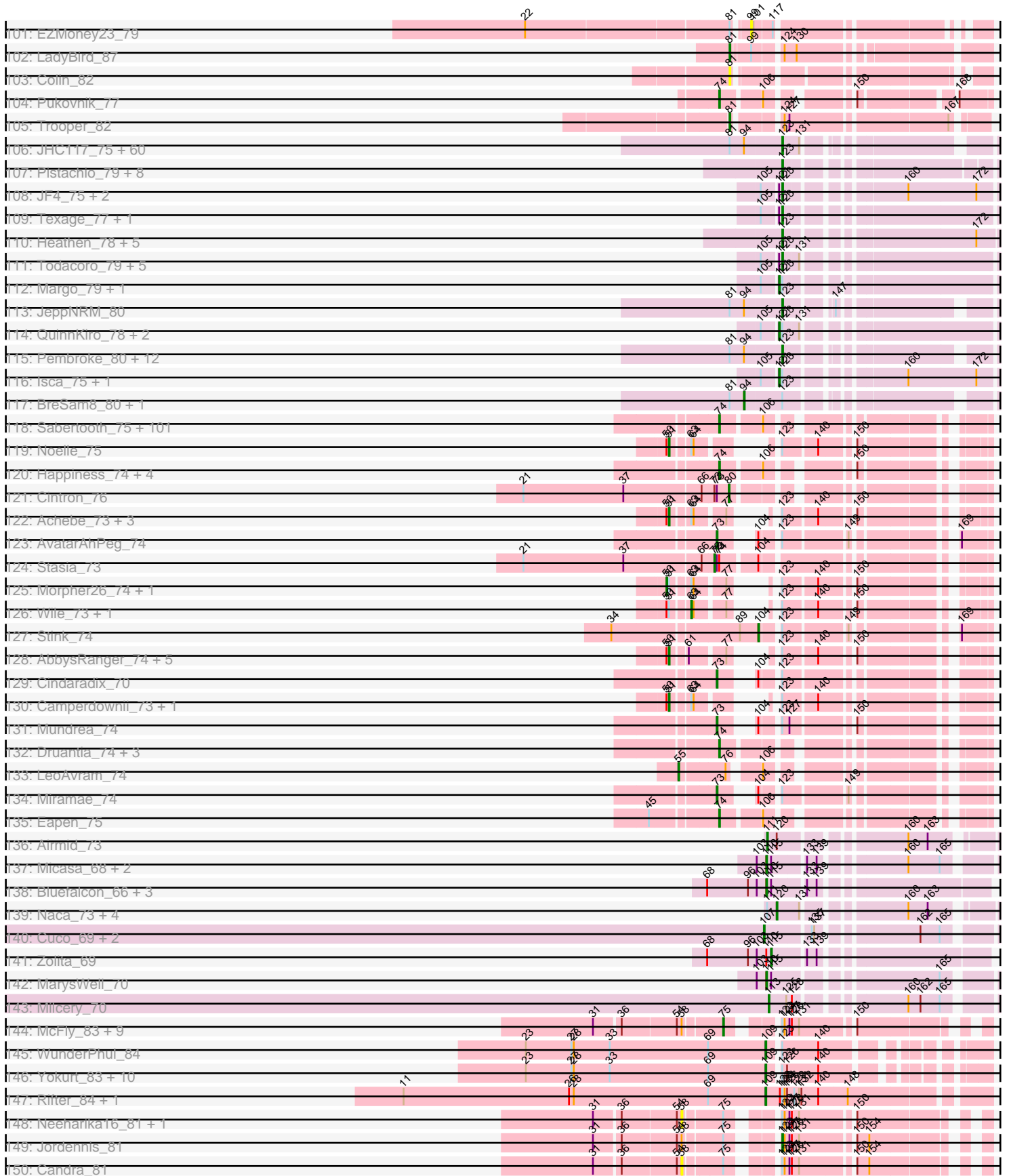
Pham 163234



Pham 163234



Pham 163234



Pham 163234



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 163234 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163234 has 711 members, 50 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_83
- Track 2 : McGuire_76, Alsfro_83, Adahisdi_72, Rufus_79, PinkPlastic_72, Dreamboat_76, Arcanine_80, Snazzy_77, Ichabod_79, StrongArm_72, Crispicous1_71, GageAP_79, Dynamix_76, Bexan_71, Bob3_77, Teodoridan_74, Fushigi_70, DD5_74, Bones_72, Rubeus_77, Traft412_76, Ciao_73, Gyzlar_69, Monet_80, Maroc7_78, Slagathor_77, Peterson_75, Anglerfish_78, Ajay_73, BillKnuckles_70, Marcell_69, Petp2012_77, Fascinus_72, BigMau_79, Hami1_66, Bigfoot_71, SarFire_80, Briton15_79, Paraselene_74, Jerm2_78, Jasper_75, Rohr_79, Seabiscuit_77, BeesKnees_77, Oogway_75, Fenn_79, Treddle_78, Francis47_78, Agaliana_74, Marchy_65, Papez_78, Bircsak_77, CactusRose_79, Norz_72, PherrisBueller_75, DreamCatcher_80, Gompeii16_77, ILeeKay_74, Bruns_79, 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, HanShotFirst_74, Kugel_78, Edtherson_75, Squee_77, Violet_71, SkiPole_85, Chanagan_71, TheloniousMonk_78, Switzer_75, Naira_78, Scowl_77, Pippin_77, Sagefire_73, Carlyle_77
- Track 3 : Rhynn_72
- Track 4 : MaryBeth_74, BPBiebs31_81, NEHalo_72, Arlo_76, Magnar_72, Mryolo_71, Moose_78, Pelly_77, Perseus_76, AFIS_73, Museum_76, PhrostyMug_78, Bethlehem_79, Forsytheast_78, Paphu_71, Espresso_69, JuliaChild_77, Lockley_73, Zeeculate_72, KyMonks1A_82, Ohno789_79, Sibs6_76, Gwendoluna_79, HarryOW_77, Swole_74, STLscum_82, Fajezeel_79, Eyeball_75, SpikeBT_73, Molly_76, Greg_79, Aeneas_81, Tote_72, Dulcie_77, Acme_80, Sumter_73, U2_70, PSullivan_72, Abbyshoes_76, Dussy_75, Parliament_77, Gandalf20_75, Sorpresa_73, Lopton_75, Pita2_77, MetalQZJ_73, Makemake_79, Pari_81, PattyP_76, Kenmech_78, Niza_76, MPlant7149_76, Burton_77, DrFeelGood_72, Mule_75, PascalRango_74, SwissCheese_80, Corvo_78, Tasp14_75, Smairt_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, Magnito_75, KSSJEB_73, A6_70, LilBib_73, Graduation_79
- Track 7 : Rutherferd_78
- Track 8 : Ashballer_78
- Track 9 : JC27_77, Jorgensen_83, Zeuska_78
- Track 10 : Hermia_71, QTRlifeCrisis_76, Buttons_73
- Track 11 : Killigrew_73

- Track 12 : GrecoEtereo_80, Manatee_74, Euphoria_77, BaconJack_78
- Track 13 : Kanely_78, Doom_69, Licorice_77, Altman_79
- Track 14 : Ruotula_80
- Track 15 : Nerujay_80
- Track 16 : IgnatiusPatJac_76, BluSpix_73, StewieG_72
- Track 17 : Nhonho_72, Ringer_76
- Track 18 : Applejack_75, Barriga_83, Dexes_77, Hope4ever_77
- Track 19 : KBG_74, BigPaolini_74
- Track 20 : Pinto_76
- Track 21 : Turj99_72
- Track 22 : Conceptll_81, Atkinbua_82
- Track 23 : Big3_77, MrGordo_77
- Track 24 : TwoPeat_73
- Track 25 : Trouble_76
- Track 26 : Kykar_76
- Track 27 : Marge_73, Target_76
- Track 28 : Homines_64
- Track 29 : Wheeler_81
- Track 30 : Abrogate_730
- Track 31 : Eaglepride_86
- Track 32 : Goose_84, OKCentral2016_82, Chupacabra_80
- Track 33 : KittenMittens_78, Severus_81, PeaceMeal1_80, Drake94_80
- Track 34 : WalterMcMickey_83, Topanga_73, Twister_84
- Track 35 : RhynO_71
- Track 36 : Poompha_80
- Track 37 : Kristoff_81
- Track 38 : Rebeuca_84
- Track 39 : Lucivia_85, Timothy_84, Aneem_85, Joselito_83, Petersenfast_78, Bowtie_81, Mabel_84, Bud_79, Munch_84, MaCh_84, Orange_84, TinyTimmy_82, Flaverint_85
- Track 40 : Et2Brutus_83, Gilberta_81, Sham4_80, Fibonacci_83, Bachome_82, Ebony_84, Insomnia_82, Hutc2_80, Mulciber_82, Salz_79, Snape_84, Jabith_83
- Track 41 : Pharaoh_77
- Track 42 : DARTHPhader_78
- Track 43 : Steamy_75
- Track 44 : Refuge_80
- Track 45 : Zimmer_79
- Track 46 : Luchador_82
- Track 47 : SororFago_82
- Track 48 : Jeeves_84
- Track 49 : Gail_84
- Track 50 : PainterBoy_82, Lucyedi_82, EagleEye_83
- Track 51 : 40AC_78
- Track 52 : MyraDee_79
- Track 53 : Kimona_76
- Track 54 : LilTurb_84, Jerm_85, Agape74_85
- Track 55 : Piro94_82
- Track 56 : Malec_82
- Track 57 : MissWhite_76
- Track 58 : Anselm_84
- Track 59 : KingCyrus_82
- Track 60 : Changeling_82, AnnaL29_85, Loser_86, RedRock_83
- Track 61 : Serenity_86, TopsytheTRex_82

- Track 62 : Pomar16_83, AN9_82, VC3_81, ANI8_82, StarStuff_83, Tomathan_83, Duplo_84, Kerberos_83, DBQu4n_83, C3_75
- Track 63 : Kalpine_85, Trixie_83
- Track 64 : Echild_85
- Track 65 : TarsusIV_82
- Track 66 : BiancaTri92_81
- Track 67 : Iwokeuplikedis_86
- Track 68 : HarryHoudini_83, Updawg_84, Drake55_84, WideWale_84, Baehexic_82, Centaur_83, NaSiaTalie_84, Flare16_83, Equemioh13_83
- Track 69 : ChipMunk_84
- Track 70 : WeiHuaDA_85
- Track 71 : DudeLittle_81, Retro23_83
- Track 72 : Bactobuster_74, Landor_80, Phaded_76, Jaan_80
- Track 73 : Herbertwm_77
- Track 74 : CRB1_84, First_0084, 20ES_85
- Track 75 : AbbyPaige_85, Dignity_85, Whabigail7_83
- Track 76 : Acolyte_77
- Track 77 : VA6_83, AN3_83
- Track 78 : MiculUcigas_83
- Track 79 : SnapTap_83, FiringLine_83, QueenBeesly_83, Georgie2_85, SweetiePie_83, SemperFi_83, Power_83
- Track 80 : Benvolio_82
- Track 81 : BobSwaget_77, Miko_78
- Track 82 : ArcherNM_78
- Track 83 : GaugeLDP_77
- Track 84 : NothingSpecial_78
- Track 85 : Larenn_81
- Track 86 : Crucio_83
- Track 87 : Dalmatian_83
- Track 88 : Leviathan_85, Turbido_84, Smeagan_86
- Track 89 : Lokk_78, Rachaly_80
- Track 90 : Jsquared_87
- Track 91 : EvilGenius_83
- Track 92 : BabyBack_76
- Track 93 : QueenB2_80, Heffalump_80, Fameo_81
- Track 94 : NicoleTera_81
- Track 95 : IronMan_79
- Track 96 : Koduck_83, L5_76
- Track 97 : BengiVuitton_85
- Track 98 : JoshKayV_85
- Track 99 : XianYue_82
- Track 100 : Deloris_85
- Track 101 : EZMoney23_79
- Track 102 : LadyBird_87
- Track 103 : Colin_82
- Track 104 : Pukovnik_77
- Track 105 : Trooper_82
- Track 106 : JHC117_75, LugYA_83, Beauxregard13_79, LBerry_81, Kalnoky_80, Gemma_77, Daishi_79, SoilDragon_80, Penny1_80, Grif_78, EpicPhail_81, Dieselweasel_81, Taurus_81, Kalb97_80, MarQuardt_80, Colbster_76, Aglet_81, GingkoMaracino_80, PurpleHaze_79, Pawn_78, Groupthink_80, Soshari_82, GtownJaz_80, Marius_80, Grum1_80, Tiffany_79, MadMarie_78, Wooldri_82, Rummer_79, Jobu08_76, JenCasNa_81, Louie6_79, Snickers_76, Cullens_81,

Hercules11_80, Sabinator_78, Fernando_81, Bxz2_75, LarryKay_80, 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, Manu_79, HashRod_81, Phoebe_81

- Track 107 : Pistachio_79, TNguyen7_80, SaturnRing_79, BlueBird_81, Bugatti_79, Giroux_77, Idleandcovert_79, Phantastic_80, Puppy_80
- Track 108 : JF4_75, JF2_75, B1_69
- Track 109 : Texage_77, Noella_80
- Track 110 : Heathen_78, MA5_77, Fred313_76, BabyRay_78, HelDan_79, Scout_78
- Track 111 : Todacoro_79, Pocahontas_78, Panamaxus_76, ResDef_77, Popcicle_79, Hookmount_79
- Track 112 : Margo_79, Norbert_75
- Track 113 : JeppNRM_80
- Track 114 : QuinnKiro_78, Veracruz_76, Lambert1_79
- Track 115 : Pembroke_80, AugsMagnumOpus_83, Stagni_77, Mainiac_79, Grub_78, Malinsilva_83, Sabia_78, Lilith_78, PGHhamlin_82, Microwolf_76, MuchMore_83, StepMih_80, DaHudson_79
- Track 116 : Isca_75, MK4_72
- Track 117 : BreSam8_80, Watson_79
- Track 118 : Sabertooth_75, OKaNui_74, Phacado_75, Morrow_77, JoongJeon_74, Mazhar510_75, Burger_73, PeterPeter_75, Iracema64_75, Houdini22_74, Millski_74, Avle17_75, Holli_74, Bartimeaus_75, Ruin_75, Pumbaa_75, YoSam321_75, Albee_75, Bruiser_74, Relief_74, Wander_75, Maxo_77, Flux_76, Nemo27_74, Bombshell_75, Eris_74, Abdiel_74, TiroTheta9_74, Kingmustik0402_75, Jaykayelowell_72, Cocoaberry_75, Romney_74, Sparxx_76, Broseidon_75, SheldonCooper_75, Alberto7_76, ICleared_74, Kyee_75, CentreCat_75, Scamp_75, Baby16_75, LittleB_75, Phighter1804_75, Chaph_75, Phelipe_76, Kratark_74, DirtyDunning_74, Caelakin_73, Skipitt_74, Kampy_74, Iceman_73, BubbleTrouble_74, Spino_74, Roosevelt_73, Nyxis_74, JetBlade_76, TroyPia_76, Florean_75, Taquarus_74, Dhanush_75, Pipcraft_71, Thanksgivukkah_74, Commander_73, Citius_75, LochMonster_76, BellusTerra_76, Eurydice_76, Eros_75, Lemur_75, Tinybot_74, MeeZee_74, LappelDuVide_71, Maverick_74, Melvin_77, Blackmoor_74, TinaFeyge_73, Clarenza_74, Peaches_73, Shaka_73, Deano_72, NorthStar_72, Ohfah_76, KFPoly_74, Palestino_74, Connomayer_75, HamSlice_71, BangNhom_72, Ulysses_74, Wilbur_75, Arturo_72, TygerBlood_75, LittleGuy_75, Koreni_74, Gadost_75, Lunsford_75, NotAPhaseMom_74, Phontbonne_75, Nebs_76, Medusa_74, Annyong_74, Funston_74, Cerulean_77
- Track 119 : Noelle_75
- Track 120 : Happiness_74, ChampagnePapi_78, Shygu2_74, Obama12_76, LHTSCC_77
- Track 121 : Cintron_76
- Track 122 : Achebe_73, Katalie136_74, Wizard007_74, Cici_74
- Track 123 : AvatarAhPeg_74
- Track 124 : Stasia_73
- Track 125 : Morpher26_74, Bumblebee11_73
- Track 126 : Wile_73, Badger_73
- Track 127 : Stink_74
- Track 128 : AbbysRanger_74, Perplexer_74, Backyardigan_72, Xena_73, Datway_74, PetiteSangsue_74
- Track 129 : Cindaradix_70
- Track 130 : Camperdownii_73, Kremtemulon_71

- Track 131 : Mundrea_74
- Track 132 : Druantia_74, Eagle_74, Lorenzo_75, Polymorphads_76
- Track 133 : LeoAvram_74
- Track 134 : Miramae_74
- Track 135 : Eapen_75
- Track 136 : Airmid_73
- Track 137 : Micasa_68, Theia_69, Dublin_70
- Track 138 : Bluefalcon_66, Ghoulboy_70, Archetta_68, SydNat_70
- Track 139 : Naca_73, EITiger69_76, PetterN_78, Chadwick_74, Benedict_74
- Track 140 : Cuco_69, Coog_67, Midas2_67
- Track 141 : Zolita_69
- Track 142 : MarysWell_70
- Track 143 : Milcery_70
- Track 144 : McFly_83, DaVinci_81, Hoot_78, Cookiedough_83, SuperAwesome_83, GreedyLawyer_77, Kipper29_83, Pmask_82, BABullseye_76, Newrala_82
- Track 145 : WunderPhul_84
- Track 146 : Yokurt_83, ToneTone_81, Koko_85, Wiks_83, Artemis2UCLA_83, Zulu_85, Blue7_85, Roksolana_84, Zaka_84, Indra_87, Tucker_84
- Track 147 : Rifter_84, Hammer_84
- Track 148 : Neeharika16_81, Dorothea_80
- Track 149 : Jordennis_81
- Track 150 : Candra_81
- Track 151 : Gruunaga_83, Gladiator_80
- Track 152 : EricB_82
- Track 153 : Priamo_85
- Track 154 : Helmet_85, Lilbunny_81, Garak_85
- Track 155 : CloudWang3_84, Hexamo_83
- Track 156 : Kazan_84, VohminGhazi_83, SmellyB_83
- Track 157 : Blinn1_87
- Track 158 : SuperCallie99_80
- Track 159 : Isiphiwo_80
- Track 160 : Chartreuse_80
- Track 161 : Sheen_75
- Track 162 : Timshel_75, DroogsArmy_74
- Track 163 : PP_76
- Track 164 : HINdeR_74
- Track 165 : Scherzo_85, Qobbit_85, Pioneer_87, Phaeder_87, Aliter_80, Ugenie5_74, Beemo_87, ExplosioNervosa_85, Phonnegut_87, Eidsmoe_85, HortumSL17_88, EmyBug_81, Spouty_82, Conquerage_85, Alma_85, Catalina_89, Priya_85, Myxus_87
- Track 166 : Fayely_85, Tubs_87
- Track 167 : Keziacharles14_84
- Track 168 : Arissanae_82
- Track 169 : Darrell_85
- Track 170 : SheaKeira_82
- Track 171 : BogosyJay_86, Maminiaina_86
- Track 172 : LoneWolf_87
- Track 173 : Vanisoa_82
- Track 174 : Yecey3_88
- Track 175 : DreamTeam1_82, Charm_82
- Track 176 : Rahalelujah_86
- Track 177 : Toaka_85
- Track 178 : 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 104, it was called in 185 of the 661 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, Beatrix_73, BeesKnees_77, Bethlehem_79, Bexan_71, Big3_77, BigMau_79, Bigfoot_71, BillKnuckles_70, Bircsak_77, Blue_73, Bob3_77, Bones_72, Briton15_79, Bruns_79, Burton_77, Buttons_73, Bxb1_70, CactusRose_79, Carlyle_77, Chanagan_71, Ciao_73, ConceptII_81, Corvo_78, Crispicous1_71, DD5_74, Dexes_77, Doom_69, DrFeelGood_72, DreamCatcher_80, Dreamboat_76, Dulcie_77, Dussy_75, Dynamix_76, Edtherson_75, Espresso_69, Euphoria_77, Eyeball_75, Fajezeel_79, Fascinus_72, Fenn_79, Forsytheast_78, Francis47_78, Fushigi_70, GageAP_79, Gandalf20_75, Gompeii16_77, Graduation_79, GrecoEtereo_80, Greg_79, Gwendoluna_79, Gyzlar_69, Hami1_66, HanShotFirst_74, HarryOW_77, Hermia_71, HermioneGrange_80, Homines_64, Hope4ever_77, ILeeKay_74, Ichabod_79, JackSparrow_77, Jasper_75, Jerm2_78, JuliaChild_77, KSSJEB_73, Kanely_78, Kenmech_78, Killigrew_73, Kugel_78, KyMonks1A_82, Kykar_76, Lamina13_80, Lesedi_73, Licorice_77, LilBib_73, Lockley_73, Lopton_75, MPlant7149_76, Magnar_72, Magnito_75, Makemake_79, Manatee_74, Marcell_69, Marchy_65, Marge_73, Maroc7_78, Marsha_76, MaryBeth_74, McGuire_76, MetalQZJ_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_72, PacerPaul_81, Papez_78, Paphu_71, Paraselene_74, Pari_81, Parliament_77, PascalRango_74, PattyP_76, Pelly_77, Pepe_70, Perseus_76, Peterson_75, Petp2012_77, Petruchio_76, PherrisBueller_75, PhrostyMug_78, PinkPlastic_72, Pinto_76, Pippin_77, Pita2_77, QTRlifeCrisis_76, Rajelicia_78, Rhynn_72, Ringer_76, Rohr_79, Rubeus_77, Rufus_79, Ruotula_80, Rutherford_78, STLscum_82, Sagefire_73, Sandaddy_74, SarFire_80, Scowl_77, Seabiscuit_77, Seanderson_76, ShortQueendom_69, Sibs6_76, SkiPole_85, Slagathor_77, Smairt_80, Snazzy_77, Solon_72, Sorpresa_73, SpikeBT_73, Squee_77, Stink_74, StrongArm_72, Sumter_73, Sunshine924_77, SwissCheese_80, Switzer_75, Swole_74, Target_76, Tasp14_75, Teodoridan_74, TheloniousMonk_78, Thor_80, Topgun_72, Tote_72, Traft412_76, Treddle_78, Tripl3t_79, Trouble_76, Turj99_72, TwoPeat_73, U2_70, Violet_71, Watermelon_79, Wheeler_81, Wilkins_73, Zeeculate_72, Zephyr_78,

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

- AvatarAhPeg_74, BigPaolini_74, BluSpix_73, Cindaradix_70, IgnatiusPatJac_76, KBG_74, Miramae_74, Mundrea_74, Stasia_73, StewieG_72,

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

- 20ES_85, 40AC_78, AN3_83, AN9_82, ANI8_82, AbbyPaige_85, AbbysRanger_74, Abdiel_74, Achebe_73, Acolyte_77, Agape74_85, Aglet_81, Airmid_73, Albee_75, Alberto7_76, Aliter_80, Alma_85, Aneem_85, AnnaL29_85, Annyong_74,

Anselm_84, Anubis_84, ArcherNM_78, Archetta_68, Arissanae_82, Artemis2UCLA_83, Arturo_72, AugsMagnumOpus_83, Avle17_75, B1_69, BABullseye_76, Baby16_75, BabyBack_76, BabyRay_78, Bachome_82, Backyardigan_72, Bactobuster_74, Badger_73, Baehexic_82, BangNhom_72, Bartimeaus_75, Beauxregard13_79, Beemo_87, BellusTerra_76, Benedict_74, BengiVuitton_85, Benvolio_82, BiancaTri92_81, Blackmoor_74, Blinn1_87, Blue7_85, BlueBird_81, Bluefalcon_66, BobSwaget_77, BogosyJay_86, Bombshell_75, Bowtie_81, BreSam8_80, Broseidon_75, Bruiser_74, BubbleTrouble_74, Bud_79, Bugatti_79, Bumblebee11_73, Burger_73, BuzzBuzz_74, Bxz2_75, C3_75, CRB1_84, Caelakin_73, Camperdownii_73, Candra_81, Catalina_89, Centaur_83, CentreCat_75, Cerulean_77, Chadwick_74, ChampagnePapi_78, Changeling_82, Chaph_75, Chargerpower_83, Charm_82, Chartreuse_80, ChipMunk_84, Chupacabra_80, Cici_74, Cintron_76, Citius_75, Clarenza_74, CloudWang3_84, Cocoaberry_75, Colbster_76, Colin_82, Commander_73, Connomayer_75, Conquerage_85, Coog_67, Cookiedough_83, Crucio_83, Cuco_69, Cullens_81, DBQu4n_83, DaHudson_79, DaVinci_81, Daishi_79, Dalmatian_83, Darrell_85, DarthPhader_78, Datway_74, Deano_72, Deloris_85, Dhanush_75, Dieselweasel_81, Dignity_85, DirtyDunning_74, Dorothea_80, Drake55_84, Drake94_80, DreamTeam1_82, DroogsArmy_74, Druantia_74, Dublin_70, DudeLittle_81, Duplo_84, EZMoney23_79, EagleEye_83, Eagle_74, Eaglepride_86, Eapen_75, Ebony_84, Echild_85, Eidsmoe_85, ElTiger69_76, Elephantoon_87, EmyBug_81, 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, Fred313_76, Funston_74, Gadost_75, Gail_84, Garak_85, GaugeLDP_77, Gemma_77, Georgie2_85, Ghoulboy_70, Gilberta_81, GingkoMaracino_80, Giroux_77, Gladiator_80, Goose_84, GreedyLawyer_77, Grif_78, Groupthink_80, Grub_78, Grum1_80, Gruunaga_83, GtownJaz_80, HINdeR_74, HamSlice_71, Hammer_84, Happiness_74, HarryHoudini_83, HashRod_81, HaveUMetTed_80, Heathen_78, Heffalump_80, HelDan_79, Heliosoles_77, Helmet_85, Herbertwm_77, Hercules11_80, Hexamo_83, Holli_74, Hookmount_79, Hoot_78, HortumSL17_88, Houdini22_74, Hutc2_80, ICleared_74, Iceman_73, Idleandcovert_79, Indra_87, Insomnia_82, Iracema64_75, IronMan_79, Isca_75, Isiphiwo_80, Iwokeuplikedis_86, JC27_77, JF2_75, JF4_75, JHC117_75, Jaan_80, Jabith_83, Jaykayelowell_72, Jeeves_84, JenCasNa_81, JeppNRM_80, Jerm_85, JetBlade_76, Jobu08_76, JoongJeon_74, Jordennis_81, Jorgensen_83, Joselito_83, JoshKayV_85, Jsquared_87, KADY_77, KFPoly_74, Kalb97_80, Kalnoky_80, Kalpine_85, Kamy_74, Katalie136_74, Kazan_84, Kerberos_83, Keziacharles14_84, Kimona_76, KingCyrus_82, Kingmustik0402_75, Kipper29_83, KittenMittens_78, Koduck_83, Koko_85, Koreni_74, Kratark_74, Kremtemulon_71, Kristoff_81, Kyee_75, L5_76, LBerry_81, LHTSCC_77, LadyBird_87, Lambert1_79, Landor_80, LappelDuVide_71, Larenn_81, LarryKay_80, Lemur_75, LeoAvram_74, Leviathan_85, LilTurb_84, Lilbunny_81, Lilith_78, LittleB_75, LittleGuy_75, LochMonster_76, Lokk_78, LoneWolf_87, Lorenzo_75, Loser_86, Louie6_79, Luchador_82, Lucivia_85, Lucyedi_82, LugYA_83, Lunsford_75, MA5_77, MK4_72, MaCh_84, Mabel_84, MadMarie_78, Mainiac_79, Malec_82, Malinsilva_83, Maminiaina_86, Manu_79, MarQuardt_80, Margo_79, Marie_78, Marius_80, MarysWell_70, Maverick_74, Maxo_77, Mazhar510_75, McFly_83, Medusa_74, MeeZee_74, Melvin_77, Methuselah_73, Micasa_68, Microwolf_76, MiculUcigas_83, Midas2_67, Miko_78, Milcery_70, Millski_74, MissWhite_76, MoneyMay_80, Morpher26_74, Morrow_77, MuchMore_83, Mulciber_82, Munch_84, MyraDee_79, Myxus_87, NaSiaTalie_84, Naca_73, Nebs_76, Neeharika16_81, Nemo27_74,

Newrala_82, NicoleTera_81, Noella_80, Noelle_75, Norbert_75, NorthStar_72, NotAPhaseMom_74, NothingSpecial_78, Nyxis_74, OKCentral2016_82, OKaNui_74, Obama12_76, Ohfah_76, OlanP_78, Ollie_80, Orange_84, P28Green_80, PGHhamlin_82, PP_76, PainterBoy_82, Palestino_74, Panamaxus_76, Pawn_78, PeaceMeal1_80, Peaches_73, Pembroke_80, Penny1_80, Perplexer_74, PeterPeter_75, Petersenfast_78, PetiteSangsue_74, PetterN_78, Phacado_75, Phaded_76, Phaeder_87, Phantastic_80, Pharaoh_77, Felipe_76, Phighter1804_75, PhishRPhriends_76, Phoebe_81, Phonnegut_87, Phontbonne_75, Phoxy_80, 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, Priya_85, Pukovnik_77, Pumbaa_75, Puppy_80, PurpleHaze_79, Qobbit_85, QueenB2_80, QueenBeesly_83, QuinnKiro_78, Rachaly_80, Rahalelujah_86, Reba_75, Rebeuca_84, RedRock_83, Refuge_80, Relief_74, ResDef_77, Retro23_83, RhynO_71, Rifter_84, Roksolana_84, Romney_74, Roosevelt_73, Ruin_75, Rummer_79, Sabertooth_75, Sabia_78, Sabinator_78, Salz_79, SaturnRing_79, Scamp_75, Scherzo_85, Scout_78, SemperFi_83, Serenity_86, Severus_81, Shaka_73, Sham4_80, SheaKeira_82, Sheen_75, SheldonCooper_75, Shygu2_74, Skipitt_74, Smeagan_86, SmellyB_83, SnapTap_83, Snape_84, Snickers_76, SoYo_77, SoilDragon_80, SororFago_82, Soshari_82, Sparxx_76, Spike509_80, Spino_74, Spouty_82, Stagni_77, StarStuff_83, Steamy_75, StepMih_80, SuperAwesome_83, SuperCallie99_80, SweetiePie_83, SydNat_70, TNguyen7_80, Taquarus_74, TarsusIV_82, Taurus_81, Texage_77, Thanksgivukkah_74, Theia_69, Tiffany_79, Timothy_84, Timshel_75, TinaFeyge_73, TinyTimmy_82, Tinybot_74, TipsytheTRex_82, TiroTheta9_74, Toaka_85, Todacoro_79, Tomathan_83, ToneTone_81, Topanga_73, Trixie_83, Trooper_82, TroyPia_76, Tubs_87, Tucker_84, Turbido_84, Twister_84, TygerBlood_75, Ugenie5_74, Ulysses_74, Updawg_84, VA6_83, VC3_81, Vanisoa_82, Veracruz_76, Vix_76, VohminGhazi_83, WalterMcMickey_83, Wander_75, Watson_79, WeiHuaDA_85, Whabigail7_83, WideWale_84, Wiks_83, Wilbur_75, Wile_73, Wizard007_74, Wooldri_82, WunderPhul_84, Xena_73, XianYue_82, Yecy3_88, YoSam321_75, Yokurt_83, Zaka_84, Zeuska_78, Zimmer_79, Zolita_69, Zulu_85,

Summary by start number:

Start 50:

- Found in 17 of 711 (2.4%) of genes in pham
- Manual Annotations of this start: 2 of 661
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Bumblebee11_73 (A4), Morpher26_74 (A4),

Start 51:

- Found in 17 of 711 (2.4%) of genes in pham
- Manual Annotations of this start: 12 of 661
- Called 76.5% of time when present
- Phage (with cluster) where this start called: AbbysRanger_74 (A4), Achebe_73 (A4), Backyardigan_72 (A4), Camperdownii_73 (A4), Cici_74 (A4), Datway_74 (A4), Katalie136_74 (A4), Kremtemulon_71 (A4), Noelle_75 (A4), Perplexer_74 (A4), PetiteSangsue_74 (A4), Wizard007_74 (A4), Xena_73 (A4),

Start 55:

- Found in 1 of 711 (0.1%) of genes in pham

- Manual Annotations of this start: 1 of 661
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LeoAvram_74 (A4),

Start 58:

- Found in 27 of 711 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 661
- Called 14.8% of time when present
- Phage (with cluster) where this start called: Blinn1_87 (A6), Candra_81 (A6), Dorothea_80 (A6), Neeharika16_81 (A6),

Start 63:

- Found in 11 of 711 (1.5%) of genes in pham
- Manual Annotations of this start: 2 of 661
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Badger_73 (A4), Wile_73 (A4),

Start 71:

- Found in 1 of 711 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 661
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PP_76 (A7),

Start 72:

- Found in 6 of 711 (0.8%) of genes in pham
- Manual Annotations of this start: 5 of 661
- Called 83.3% of time when present
- Phage (with cluster) where this start called: BobSwaget_77 (A2), Lokk_78 (A2), Miko_78 (A2), Rachaly_80 (A2), Stasia_73 (A4),

Start 73:

- Found in 8 of 711 (1.1%) of genes in pham
- Manual Annotations of this start: 5 of 661
- Called 62.5% of time when present
- Phage (with cluster) where this start called: AvatarAhPeg_74 (A4), Cindaradix_70 (A4), Kimona_76 (A19), Miramae_74 (A4), Mundrea_74 (A4),

Start 74:

- Found in 118 of 711 (16.6%) of genes in pham
- Manual Annotations of this start: 115 of 661
- 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), 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), Koreni_74 (A4), Kratark_74 (A4), Kyee_75 (A4), LHTSCC_77 (A4), Landor_80 (A2), LappelDuVide_71 (A4), Lemur_75 (A4), LittleB_75 (A4), LittleGuy_75 (A4), LochMonster_76 (A4), Lorenzo_75 (A4), Lunsford_75 (A4), Maverick_74 (A4), Maxo_77 (A4), Mazhar510_75 (A4), Medusa_74 (A4), MeeZee_74 (A4), Melvin_77 (A4), 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), Felipe_76 (A4), Phighter1804_75 (A4), Phontbonne_75 (A4), Pipcraft_71 (A4), Polymorphads_76 (A4), Pukovnik_77 (A2), Pumbaa_75 (A4), Relief_74 (A4), Romney_74 (A4), Roosevelt_73 (A4), Ruin_75 (A4), Sabertooth_75 (A4), Scamp_75 (A4), Shaka_73 (A4), SheldonCooper_75 (A4), Shygu2_74 (A4), Skipitt_74 (A4), 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 75:

- Found in 23 of 711 (3.2%) of genes in pham
- Manual Annotations of this start: 14 of 661
- Called 60.9% of time when present
- Phage (with cluster) where this start called: BABullseye_76 (A6), Cookiedough_83 (A6), DaVinci_81 (A6), GreedyLawyer_77 (A6), Hoot_78 (A6), Isiphiwo_80 (A6), Kazan_84 (A6), Kipper29_83 (A6), McFly_83 (A6), Newrala_82 (A6), Pmask_82 (A6), SmellyB_83 (A6), SuperAwesome_83 (A6), VohminGhazi_83 (A6),

Start 76:

- Found in 3 of 711 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 661
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Herbertwm_77 (A2), Iwokeuplikedis_86 (A2),

Start 78:

- Found in 1 of 711 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 661
- Called 100.0% of time when present
- Phage (with cluster) where this start called: XianYue_82 (A2),

Start 79:

- Found in 3 of 711 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 661
- Called 66.7% of time when present
- Phage (with cluster) where this start called: GaugeLDP_77 (A2), NothingSpecial_78 (A2),

Start 80:

- Found in 1 of 711 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 661
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cintron_76 (A4),

Start 81:

- Found in 119 of 711 (16.7%) of genes in pham
- Manual Annotations of this start: 34 of 661
- Called 32.8% of time when present
- Phage (with cluster) where this start called: 20ES_85 (A2), 40AC_78 (A17), AbbyPaige_85 (A2), Agape74_85 (A2), Baehexic_82 (A2), Benvolio_82 (A2), CRB1_84 (A2), Centaur_83 (A2), ChipMunk_84 (A2), Colin_82 (A2), Crucio_83 (A2), Dalmatian_83 (A2), Deloris_85 (A2), Dignity_85 (A2), Drake55_84 (A2), Equemioh13_83 (A2), EvilGenius_83 (A2), First_0084 (A2), Flare16_83 (A2), HarryHoudini_83 (A2), Jerm_85 (A2), JoshKayV_85 (A2), KingCyrus_82 (A2), LadyBird_87 (A2), Larenn_81 (A2), Leviathan_85 (A2), LilTurb_84 (A2), Malec_82 (A2), MiculUcigas_83 (A2), NaSiaTalie_84 (A2), NicoleTera_81 (A2), Piro94_82 (A2), Smeagan_86 (A2), TarsusIV_82 (A2), Trooper_82 (A2), Turbido_84 (A2), Updawg_84 (A2), Whabigail7_83 (A2), WideWale_84 (A2),

Start 82:

- Found in 71 of 711 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 661
- Called 4.2% of time when present
- Phage (with cluster) where this start called: BluSpix_73 (A1), IgnatiusPatJac_76 (A1), StewieG_72 (A1),

Start 83:

- Found in 1 of 711 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 661
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IronMan_79 (A2),

Start 84:

- Found in 30 of 711 (4.2%) of genes in pham
- Manual Annotations of this start: 18 of 661
- Called 60.0% of time when present
- Phage (with cluster) where this start called: AN3_83 (A2), Anselm_84 (A2), BengiVuitton_85 (A2), BiancaTri92_81 (A2), DudeLittle_81 (A2), Echild_85 (A2), Fameo_81 (A2), FiringLine_83 (A2), Georgie2_85 (A2), Heffalump_80 (A2), Power_83 (A2), QueenB2_80 (A2), QueenBeesly_83 (A2), Retro23_83 (A2), SemperFi_83 (A2), SnapTap_83 (A2), SweetiePie_83 (A2), VA6_83 (A2),

Start 87:

- Found in 1 of 711 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 661
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acolyte_77 (A2),

Start 88:

- Found in 7 of 711 (1.0%) of genes in pham
- Manual Annotations of this start: 4 of 661
- Called 57.1% of time when present
- Phage (with cluster) where this start called: AnnaL29_85 (A2), Changeling_82 (A2), Loser_86 (A2), RedRock_83 (A2),

Start 90:

- Found in 7 of 711 (1.0%) of genes in pham

- Manual Annotations of this start: 3 of 661
- Called 42.9% of time when present
- Phage (with cluster) where this start called: DroogsArmy_74 (A7), HINdeR_74 (A7), Timshel_75 (A7),

Start 91:

- Found in 2 of 711 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 661
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kalpine_85 (A2), Trixie_83 (A2),

Start 94:

- Found in 77 of 711 (10.8%) of genes in pham
- Manual Annotations of this start: 2 of 661
- Called 2.6% of time when present
- Phage (with cluster) where this start called: BreSam8_80 (A3), Watson_79 (A3),

Start 99:

- Found in 10 of 711 (1.4%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: EZMoney23_79 (A2), WeiHuaDA_85 (A2),

Start 100:

- Found in 6 of 711 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 661
- Called 33.3% of time when present
- Phage (with cluster) where this start called: BigPaolini_74 (A1), KBG_74 (A1),

Start 102:

- Found in 7 of 711 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: BabyBack_76 (A2),

Start 104:

- Found in 211 of 711 (29.7%) of genes in pham
- Manual Annotations of this start: 185 of 661
- Called 95.3% 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), Beatrix_73 (A1), BeesKnees_77 (A1), Bethlehem_79 (A1), Bexan_71 (A1), Big3_77 (A1), BigMau_79 (A1), Bigfoot_71 (A1), BillKnuckles_70 (A1), Bircsak_77 (A1), Blue_73 (A1), Bob3_77 (A1), Bones_72 (A1), Briton15_79 (A1), Bruns_79 (A1), Burton_77 (A1), Buttons_73 (A1), Bxb1_70 (A1), CactusRose_79 (A1), Carlyle_77 (A1), Chanagan_71 (A1), Ciao_73 (A1), ConceptII_81 (A1), Corvo_78 (A1), Crispicous1_71 (A1), DD5_74 (A1), Dexes_77 (A1), Doom_69 (A1), DrFeelGood_72 (A1), DreamCatcher_80 (A1), Dreamboat_76 (A1), Dulcie_77 (A1), Dussy_75 (A1), Dynamix_76 (A1), Edtherson_75 (A1),

Espresso_69 (A1), Euphoria_77 (A1), Eyeball_75 (A1), Fajezeel_79 (A1), Fascinus_72 (A1), Fenn_79 (A1), Forsytheast_78 (A1), Francis47_78 (A1), Fushigi_70 (A1), GageAP_79 (A1), Gandalf20_75 (A1), Gompeii16_77 (A1), Graduation_79 (A1), GrecoEtereo_80 (A1), Greg_79 (A1), Gwendoluna_79 (A1), Gyzlar_69 (A1), Hami1_66 (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), JackSparrow_77 (A1), Jasper_75 (A1), Jerm2_78 (A1), JuliaChild_77 (A1), KSSJEB_73 (A1), Kanely_78 (A1), Kenmech_78 (A1), Killigrew_73 (A1), Kugel_78 (A1), KyMonks1A_82 (A1), Kykar_76 (A1), Lamina13_80 (A1), Lesedi_73 (A1), Licorice_77 (A1), LilBib_73 (A1), Lockley_73 (A1), Lopton_75 (A1), MPlant7149_76 (A1), Magnar_72 (A1), Magnito_75 (A1), Makemake_79 (A1), Manatee_74 (A1), Marcell_69 (A1), Marchy_65 (A1), Marge_73 (A1), Maroc7_78 (A1), Marsha_76 (A1), MaryBeth_74 (A1), McGuire_76 (A1), MetalQZJ_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_72 (A1), PacerPaul_81 (A1), Papez_78 (A1), Paphu_71 (A1), Paraselene_74 (A1), Pari_81 (A1), Parliament_77 (A1), PascalRango_74 (A1), PattyP_76 (A1), Pelly_77 (A1), Pepe_70 (A1), Perseus_76 (A1), Peterson_75 (A1), Petp2012_77 (A1), Petruccio_76 (A1), PherrisBueller_75 (A1), PhrostyMug_78 (A1), PinkPlastic_72 (A1), Pinto_76 (A1), Pippin_77 (A1), Pita2_77 (A1), QTRlifeCrisis_76 (A1), Rajelicia_78 (A1), Rhynn_72 (A1), Ringer_76 (A1), Rohr_79 (A1), Rubeus_77 (A1), Rufus_79 (A1), Ruotula_80 (A1), Rutherferd_78 (A1), STLscum_82 (A1), Sagefire_73 (A1), Sandaddy_74 (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), Snazzy_77 (A1), Solon_72 (A1), Sorpresa_73 (A1), SpikeBT_73 (A1), Squee_77 (A1), Stink_74 (A4), StrongArm_72 (A1), Sumter_73 (A1), Sunshine924_77 (A1), SwissCheese_80 (A1), Switzer_75 (A1), Swole_74 (A1), Target_76 (A1), Tasp14_75 (A1), Teodoridan_74 (A1), TheloniousMonk_78 (A1), Thor_80 (A1), Topgun_72 (A1), Tote_72 (A1), Traft412_76 (A1), Treddle_78 (A1), Tripl3t_79 (A1), Trouble_76 (A1), Turj99_72 (A1), TwoPeat_73 (A1), U2_70 (A1), Violet_71 (A1), Watermelon_79 (A1), Wheeler_81 (A1), Wilkins_73 (A1), Zeeculate_72 (A1), Zephyr_78 (A1),

Start 107:

- Found in 3 of 711 (0.4%) of genes in pham
- Manual Annotations of this start: 3 of 661
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coog_67 (A5), Cuco_69 (A5), Midas2_67 (A5),

Start 108:

- Found in 13 of 711 (1.8%) of genes in pham
- Manual Annotations of this start: 13 of 661
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArcherNM_78 (A2), Chupacabra_80 (A10), Drake94_80 (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), Severus_81 (A10),

Start 109:

- Found in 23 of 711 (3.2%) of genes in pham

- Manual Annotations of this start: 18 of 661
- Called 78.3% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_83 (A6), Blue7_85 (A6), CloudWang3_84 (A6), Gladiator_80 (A6), Gruunaga_83 (A6), Hammer_84 (A6), Hexamo_83 (A6), Indra_87 (A6), Koko_85 (A6), Rifter_84 (A6), Roksolana_84 (A6), ToneTone_81 (A6), Tucker_84 (A6), Wiks_83 (A6), WunderPhul_84 (A6), Yokurt_83 (A6), Zaka_84 (A6), Zulu_85 (A6),

Start 110:

- Found in 9 of 711 (1.3%) of genes in pham
- Manual Annotations of this start: 7 of 661
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Archetta_68 (A5), Bluefalcon_66 (A5), Dublin_70 (A5), Ghoulboy_70 (A5), MarysWell_70 (A5), Micasa_68 (A5), SydNat_70 (A5), Theia_69 (A5),

Start 111:

- Found in 31 of 711 (4.4%) of genes in pham
- Manual Annotations of this start: 23 of 661
- Called 83.9% of time when present
- Phage (with cluster) where this start called: Airmid_73 (A5), 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_82 (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 112:

- Found in 7 of 711 (1.0%) of genes in pham
- Manual Annotations of this start: 5 of 661
- Called 71.4% 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 113:

- Found in 1 of 711 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 661
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Milcery_70 (A5),

Start 115:

- Found in 9 of 711 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 661
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Zolita_69 (A5),

Start 116:

- Found in 4 of 711 (0.6%) of genes in pham
- Manual Annotations of this start: 4 of 661
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MyraDee_79 (A18), Topanga_73 (A10), Twister_84 (A10), WalterMcMickey_83 (A10),

Start 117:

- Found in 36 of 711 (5.1%) of genes in pham
- Manual Annotations of this start: 3 of 661
- Called 8.3% of time when present
- Phage (with cluster) where this start called: JC27_77 (A1), Jorgensen_83 (A1), Zeuska_78 (A1),

Start 120:

- Found in 57 of 711 (8.0%) of genes in pham
- Manual Annotations of this start: 21 of 661
- Called 36.8% of time when present
- Phage (with cluster) where this start called: Arissanae_82 (A9), Benedict_74 (A5), BogosyJay_86 (A9), Chadwick_74 (A5), EagleEye_83 (A16), ElTiger69_76 (A5), Fayely_85 (A9), LoneWolf_87 (A9), Lucyedi_82 (A16), Maminiaina_86 (A9), MissWhite_76 (A2), Naca_73 (A5), PainterBoy_82 (A16), PetterN_78 (A5), Rahalelujah_86 (A9), SheaKeira_82 (A9), Sheen_75 (A7), Toaka_85 (A9), Tubs_87 (A9), Vanisoa_82 (A9), Yecey3_88 (A9),

Start 121:

- Found in 18 of 711 (2.5%) of genes in pham
- Manual Annotations of this start: 7 of 661
- Called 38.9% of time when present
- Phage (with cluster) where this start called: Isca_75 (A3), Lambert1_79 (A3), MK4_72 (A3), Margo_79 (A3), Norbert_75 (A3), QuinnKiro_78 (A3), Veracruz_76 (A3),

Start 122:

- Found in 23 of 711 (3.2%) of genes in pham
- Manual Annotations of this start: 16 of 661
- Called 73.9% of time when present
- Phage (with cluster) where this start called: AN9_82 (A2), ANI8_82 (A2), C3_75 (A2), Chargerpower_83 (A), DBQu4n_83 (A2), Duplo_84 (A2), Jsquared_87 (A2), Kerberos_83 (A2), Keziacharles14_84 (A9), Koduck_83 (A2), L5_76 (A2), Pomar16_83 (A2), Serenity_86 (A2), StarStuff_83 (A2), TopsytheTRex_82 (A2), Tomathan_83 (A2), VC3_81 (A2),

Start 123:

- Found in 182 of 711 (25.6%) of genes in pham
- Manual Annotations of this start: 98 of 661
- Called 58.8% of time when present
- Phage (with cluster) where this start called: Aglet_81 (A3), Anubis_84 (A3), AugsMagnumOpus_83 (A3), B1_69 (A3), BabyRay_78 (A3), Beauxregard13_79 (A3), BlueBird_81 (A3), Bugatti_79 (A3), BuzzBuzz_74 (A3), Bxz2_75 (A3), Colbster_76 (A3), Cullens_81 (A3), DaHudson_79 (A3), Daishi_79 (A3), Dieselweasel_81 (A3), EpicPhail_81 (A3), Farber_80 (A3), Fernando_81 (A3), Fred313_76 (A3), Garak_85 (A6), 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), Helmet_85 (A6), 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), Jordennis_81 (A6), KADY_77 (A3), Kalb97_80 (A3), Kalnoky_80 (A3), LBerry_81 (A3), LarryKay_80 (A3), Lilbunny_81

(A6), Lilith_78 (A3), Louie6_79 (A3), LugYA_83 (A3), MA5_77 (A3), MadMarie_78 (A3), Mainiac_79 (A3), Malinsilva_83 (A3), Manu_79 (A3), MarQuardt_80 (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), Priamo_85 (A6), 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), SuperCallie99_80 (A6), TNguyen7_80 (A3), Taurus_81 (A3), Texage_77 (A3), Tiffany_79 (A3), Todacoro_79 (A3), Vix_76 (A3), Wooldri_82 (A3),

Start 125:

- Found in 5 of 711 (0.7%) of genes in pham
- Manual Annotations of this start: 4 of 661
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Gail_84 (A14), Jeeves_84 (A14), Luchador_82 (A14), SororFago_82 (A14),

Start 127:

- Found in 29 of 711 (4.1%) of genes in pham
- Manual Annotations of this start: 1 of 661
- Called 3.4% of time when present
- Phage (with cluster) where this start called: EricB_82 (A6),

Start 128:

- Found in 26 of 711 (3.7%) of genes in pham
- No Manual Annotations of this start.
- Called 3.8% of time when present
- Phage (with cluster) where this start called: Chartreuse_80 (A6),

Start 129:

- Found in 35 of 711 (4.9%) of genes in pham
- Manual Annotations of this start: 17 of 661
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Aliter_80 (A9), Alma_85 (A9), Beemo_87 (A9), Catalina_89 (A9), Conquerage_85 (A9), Darrell_85 (A9), Eidsmoe_85 (A9), Elephantoon_87 (A9), EmyBug_81 (A9), ExplosioNervosa_85 (A9), HortumSL17_88 (A9), Myxus_87 (A9), Phaeder_87 (A9), Phonnegut_87 (A9), Pioneer_87 (A9), Priya_85 (A9), Qobbit_85 (A9), Scherzo_85 (A9), Spouty_82 (A9), Ugenie5_74 (A9),

Start 141:

- Found in 8 of 711 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 661
- Called 25.0% 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, A19, A18, A1, A3, A2, A5, A4, A7, A6, A9,

Info for manual annotations of cluster A:

- Start number 122 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A1:

- Start number 82 was manually annotated 1 time for cluster A1.
- Start number 100 was manually annotated 2 times for cluster A1.
- Start number 104 was manually annotated 184 times for cluster A1.
- Start number 117 was manually annotated 3 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 108 was manually annotated 12 times for cluster A10.
- Start number 116 was manually annotated 3 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 111 was manually annotated 22 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 112 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 125 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A16:

- Start number 120 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 116 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 73 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 72 was manually annotated 4 times for cluster A2.
- Start number 74 was manually annotated 4 times for cluster A2.
- Start number 76 was manually annotated 2 times for cluster A2.
- Start number 78 was manually annotated 1 time for cluster A2.
- Start number 79 was manually annotated 2 times for cluster A2.
- Start number 81 was manually annotated 34 times for cluster A2.
- Start number 83 was manually annotated 1 time for cluster A2.
- Start number 84 was manually annotated 18 times for cluster A2.
- Start number 87 was manually annotated 1 time for cluster A2.
- Start number 88 was manually annotated 4 times for cluster A2.
- Start number 91 was manually annotated 2 times for cluster A2.
- Start number 108 was manually annotated 1 time for cluster A2.
- Start number 120 was manually annotated 1 time for cluster A2.
- Start number 122 was manually annotated 14 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 94 was manually annotated 2 times for cluster A3.

- Start number 121 was manually annotated 7 times for cluster A3.
- Start number 123 was manually annotated 95 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 50 was manually annotated 2 times for cluster A4.
- Start number 51 was manually annotated 12 times for cluster A4.
- Start number 55 was manually annotated 1 time for cluster A4.
- Start number 63 was manually annotated 2 times for cluster A4.
- Start number 72 was manually annotated 1 time for cluster A4.
- Start number 73 was manually annotated 4 times for cluster A4.
- Start number 74 was manually annotated 111 times for cluster A4.
- Start number 80 was manually annotated 1 time for cluster A4.
- Start number 104 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A5:

- Start number 107 was manually annotated 3 times for cluster A5.
- Start number 110 was manually annotated 7 times for cluster A5.
- Start number 111 was manually annotated 1 time for cluster A5.
- Start number 113 was manually annotated 1 time for cluster A5.
- Start number 115 was manually annotated 1 time for cluster A5.
- Start number 120 was manually annotated 5 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 58 was manually annotated 1 time for cluster A6.
- Start number 75 was manually annotated 14 times for cluster A6.
- Start number 109 was manually annotated 18 times for cluster A6.
- Start number 123 was manually annotated 3 times for cluster A6.
- Start number 127 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A7:

- Start number 71 was manually annotated 1 time for cluster A7.
- Start number 90 was manually annotated 3 times for cluster A7.
- Start number 120 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A9:

- Start number 120 was manually annotated 11 times for cluster A9.
- Start number 122 was manually annotated 1 time for cluster A9.
- Start number 129 was manually annotated 17 times for cluster A9.
- Start number 141 was manually annotated 2 times for cluster A9.

Gene Information:

Gene: 20ES_85 Start: 47721, Stop: 47398, Start Num: 81

Candidate Starts for 20ES_85:

(Start: 81 @47721 has 34 MA's), (130, 47655), (145, 47613),

Gene: 40AC_78 Start: 47105, Stop: 46806, Start Num: 81

Candidate Starts for 40AC_78:

(Start: 81 @47105 has 34 MA's), (130, 47042), (138, 47018),

Gene: A6_70 Start: 44506, Stop: 44207, Start Num: 104

Candidate Starts for A6_70:

(Start: 104 @44506 has 185 MA's), (131, 44461), (133, 44458), (157, 44389), (163, 44338),

Gene: AFIS_73 Start: 47515, Stop: 47216, Start Num: 104

Candidate Starts for AFIS_73:

(Start: 82 @47545 has 1 MA's), (Start: 104 @47515 has 185 MA's), (131, 47470), (133, 47467), (157, 47398), (163, 47347),

Gene: AN3_83 Start: 45926, Stop: 45603, Start Num: 84

Candidate Starts for AN3_83:

(15, 46256), (17, 46229), (46, 46019), (Start: 84 @45926 has 18 MA's), (86, 45923), (124, 45875), (130, 45860), (145, 45818),

Gene: AN9_82 Start: 46132, Stop: 45854, Start Num: 122

Candidate Starts for AN9_82:

(Start: 122 @46132 has 16 MA's), (135, 46099), (139, 46093), (165, 45958),

Gene: ANI8_82 Start: 46132, Stop: 45854, Start Num: 122

Candidate Starts for ANI8_82:

(Start: 122 @46132 has 16 MA's), (135, 46099), (139, 46093), (165, 45958),

Gene: AbbyPaige_85 Start: 47978, Stop: 47670, Start Num: 81

Candidate Starts for AbbyPaige_85:

(Start: 81 @47978 has 34 MA's), (Start: 84 @47975 has 18 MA's), (124, 47927), (130, 47912), (167, 47753),

Gene: AbbysRanger_74 Start: 45728, Stop: 45411, Start Num: 51

Candidate Starts for AbbysRanger_74:

(Start: 50 @45731 has 2 MA's), (Start: 51 @45728 has 12 MA's), (61, 45713), (77, 45677), (Start: 123 @45662 has 98 MA's), (140, 45623), (150, 45590),

Gene: Abbysshoes_76 Start: 46768, Stop: 46469, Start Num: 104

Candidate Starts for Abbysshoes_76:

(Start: 82 @46798 has 1 MA's), (Start: 104 @46768 has 185 MA's), (131, 46723), (133, 46720), (157, 46651), (163, 46600),

Gene: Abdiel_74 Start: 45659, Stop: 45360, Start Num: 74

Candidate Starts for Abdiel_74:

(Start: 74 @45659 has 115 MA's), (106, 45617),

Gene: Abrogate_730 Start: 47383, Stop: 47084, Start Num: 104

Candidate Starts for Abrogate_730:

(Start: 104 @47383 has 185 MA's), (131, 47338), (133, 47335), (157, 47266), (163, 47215),

Gene: Achebe_73 Start: 45705, Stop: 45394, Start Num: 51

Candidate Starts for Achebe_73:

(Start: 50 @45708 has 2 MA's), (Start: 51 @45705 has 12 MA's), (Start: 63 @45687 has 2 MA's), (64, 45684), (77, 45654), (Start: 123 @45642 has 98 MA's), (140, 45603), (150, 45570),

Gene: Acme_80 Start: 48839, Stop: 48540, Start Num: 104

Candidate Starts for Acme_80:

(Start: 82 @48869 has 1 MA's), (Start: 104 @48839 has 185 MA's), (131, 48794), (133, 48791), (157, 48722), (163, 48671),

Gene: Acolyte_77 Start: 46676, Stop: 46365, Start Num: 87

Candidate Starts for Acolyte_77:

(Start: 87 @46676 has 1 MA's),

Gene: Adahisdi_72 Start: 46838, Stop: 46539, Start Num: 104

Candidate Starts for Adahisdi_72:

(67, 46898), (Start: 104 @46838 has 185 MA's), (131, 46793), (133, 46790), (157, 46721), (163, 46670),

Gene: Aeneas_81 Start: 49127, Stop: 48828, Start Num: 104

Candidate Starts for Aeneas_81:

(Start: 82 @49157 has 1 MA's), (Start: 104 @49127 has 185 MA's), (131, 49082), (133, 49079), (157, 49010), (163, 48959),

Gene: Agaliana_74 Start: 45656, Stop: 45357, Start Num: 104

Candidate Starts for Agaliana_74:

(67, 45716), (Start: 104 @45656 has 185 MA's), (131, 45611), (133, 45608), (157, 45539), (163, 45488),

Gene: Agape74_85 Start: 47954, Stop: 47646, Start Num: 81

Candidate Starts for Agape74_85:

(Start: 81 @47954 has 34 MA's), (Start: 84 @47951 has 18 MA's), (130, 47888), (167, 47729),

Gene: Aglet_81 Start: 45628, Stop: 45365, Start Num: 123

Candidate Starts for Aglet_81:

(Start: 81 @45691 has 34 MA's), (Start: 94 @45673 has 2 MA's), (Start: 123 @45628 has 98 MA's), (131, 45607),

Gene: Airmid_73 Start: 44940, Stop: 44644, Start Num: 111

Candidate Starts for Airmid_73:

(Start: 111 @44940 has 23 MA's), (Start: 120 @44928 has 21 MA's), (160, 44796), (163, 44772),

Gene: Ajay_73 Start: 46039, Stop: 45740, Start Num: 104

Candidate Starts for Ajay_73:

(67, 46099), (Start: 104 @46039 has 185 MA's), (131, 45994), (133, 45991), (157, 45922), (163, 45871),

Gene: Albee_75 Start: 45647, Stop: 45348, Start Num: 74

Candidate Starts for Albee_75:

(Start: 74 @45647 has 115 MA's), (106, 45605),

Gene: Alberto7_76 Start: 45984, Stop: 45685, Start Num: 74

Candidate Starts for Alberto7_76:

(Start: 74 @45984 has 115 MA's), (106, 45942),

Gene: Aliter_80 Start: 45087, Stop: 44821, Start Num: 129

Candidate Starts for Aliter_80:

(Start: 120 @45105 has 21 MA's), (Start: 129 @45087 has 17 MA's), (139, 45066), (160, 44970),

Gene: Alma_85 Start: 47927, Stop: 47664, Start Num: 129

Candidate Starts for Alma_85:

(Start: 120 @47945 has 21 MA's), (Start: 129 @47927 has 17 MA's), (139, 47906), (160, 47810),

Gene: Alsfro_83 Start: 47402, Stop: 47103, Start Num: 104

Candidate Starts for Alsfro_83:

(67, 47462), (Start: 104 @47402 has 185 MA's), (131, 47357), (133, 47354), (157, 47285), (163, 47234),

Gene: Altman_79 Start: 47847, Stop: 47548, Start Num: 104

Candidate Starts for Altman_79:

(Start: 100 @47853 has 2 MA's), (Start: 104 @47847 has 185 MA's), (131, 47802), (133, 47799), (157, 47730), (163, 47679),

Gene: Alvin_74 Start: 46259, Stop: 45960, Start Num: 104

Candidate Starts for Alvin_74:

(67, 46319), (Start: 104 @46259 has 185 MA's), (131, 46214), (133, 46211), (157, 46142), (163, 46091),

Gene: Aneem_85 Start: 46838, Stop: 46542, Start Num: 111

Candidate Starts for Aneem_85:

(Start: 111 @46838 has 23 MA's), (118, 46829), (Start: 120 @46826 has 21 MA's), (134, 46799), (139, 46790), (160, 46700),

Gene: Anglerfish_78 Start: 48170, Stop: 47871, Start Num: 104

Candidate Starts for Anglerfish_78:

(67, 48230), (Start: 104 @48170 has 185 MA's), (131, 48125), (133, 48122), (157, 48053), (163, 48002),

Gene: AnnaL29_85 Start: 48114, Stop: 47815, Start Num: 88

Candidate Starts for AnnaL29_85:

(Start: 88 @48114 has 4 MA's), (97, 48102), (99, 48099), (101, 48096), (Start: 117 @48075 has 3 MA's), (130, 48054),

Gene: Annyong_74 Start: 45692, Stop: 45393, Start Num: 74

Candidate Starts for Annyong_74:

(Start: 74 @45692 has 115 MA's), (106, 45650),

Gene: Anselm_84 Start: 47862, Stop: 47560, Start Num: 84

Candidate Starts for Anselm_84:

(Start: 84 @47862 has 18 MA's), (Start: 117 @47823 has 3 MA's), (124, 47817), (167, 47643),

Gene: Anubis_84 Start: 45514, Stop: 45251, Start Num: 123

Candidate Starts for Anubis_84:

(Start: 81 @45577 has 34 MA's), (Start: 94 @45559 has 2 MA's), (Start: 123 @45514 has 98 MA's), (131, 45493),

Gene: Applejack_75 Start: 45021, Stop: 44722, Start Num: 104

Candidate Starts for Applejack_75:

(30, 45228), (32, 45201), (42, 45159), (43, 45156), (49, 45129), (53, 45117), (Start: 58 @45108 has 1 MA's), (64, 45093), (92, 45039), (Start: 104 @45021 has 185 MA's), (131, 44976), (133, 44973), (157, 44904), (163, 44853),

Gene: Arcanine_80 Start: 48772, Stop: 48473, Start Num: 104

Candidate Starts for Arcanine_80:

(67, 48832), (Start: 104 @48772 has 185 MA's), (131, 48727), (133, 48724), (157, 48655), (163, 48604),

Gene: ArcherNM_78 Start: 47236, Stop: 46946, Start Num: 108

Candidate Starts for ArcherNM_78:

(Start: 108 @47236 has 13 MA's), (126, 47215), (Start: 127 @47212 has 1 MA's),

Gene: Archetta_68 Start: 44079, Stop: 43762, Start Num: 110

Candidate Starts for Archetta_68:

(68, 44151), (96, 44100), (103, 44091), (Start: 110 @44079 has 7 MA's), (Start: 115 @44073 has 1 MA's), (133, 44037), (139, 44025),

Gene: Arissanae_82 Start: 47825, Stop: 47556, Start Num: 120

Candidate Starts for Arissanae_82:

(Start: 120 @47825 has 21 MA's), (Start: 129 @47807 has 17 MA's), (139, 47786), (Start: 141 @47783 has 2 MA's), (161, 47687),

Gene: Arlo_76 Start: 47562, Stop: 47263, Start Num: 104

Candidate Starts for Arlo_76:

(Start: 82 @47592 has 1 MA's), (Start: 104 @47562 has 185 MA's), (131, 47517), (133, 47514), (157, 47445), (163, 47394),

Gene: Artemis2UCLA_83 Start: 45479, Stop: 45216, Start Num: 109

Candidate Starts for Artemis2UCLA_83:

(23, 45779), (27, 45722), (28, 45719), (33, 45674), (69, 45551), (Start: 109 @45479 has 18 MA's), (Start: 123 @45467 has 98 MA's), (126, 45461), (140, 45422),

Gene: Arturo_72 Start: 45775, Stop: 45476, Start Num: 74

Candidate Starts for Arturo_72:

(Start: 74 @45775 has 115 MA's), (106, 45733),

Gene: Ashballer_78 Start: 47615, Stop: 47316, Start Num: 104

Candidate Starts for Ashballer_78:

(Start: 104 @47615 has 185 MA's), (131, 47570), (133, 47567), (157, 47498), (158, 47486), (163, 47447),

Gene: Atkinbua_82 Start: 48174, Stop: 47875, Start Num: 104

Candidate Starts for Atkinbua_82:

(97, 48180), (Start: 104 @48174 has 185 MA's), (131, 48129), (133, 48126), (157, 48057), (163, 48006),

Gene: AugsMagnumOpus_83 Start: 45616, Stop: 45353, Start Num: 123

Candidate Starts for AugsMagnumOpus_83:

(Start: 81 @45679 has 34 MA's), (Start: 94 @45661 has 2 MA's), (Start: 123 @45616 has 98 MA's),

Gene: AvatarAhPeg_74 Start: 45580, Stop: 45284, Start Num: 73

Candidate Starts for AvatarAhPeg_74:

(Start: 73 @45580 has 5 MA's), (Start: 104 @45559 has 185 MA's), (Start: 123 @45541 has 98 MA's), (149, 45472), (169, 45373),

Gene: Avle17_75 Start: 45641, Stop: 45342, Start Num: 74

Candidate Starts for Avle17_75:

(Start: 74 @45641 has 115 MA's), (106, 45599),

Gene: B1_69 Start: 43846, Stop: 43562, Start Num: 123

Candidate Starts for B1_69:

(105, 43867), (Start: 121 @43849 has 7 MA's), (Start: 123 @43846 has 98 MA's), (160, 43726), (172, 43642),

Gene: BABullseye_76 Start: 43895, Stop: 43605, Start Num: 75

Candidate Starts for BABullseye_76:

(31, 44039), (36, 44009), (54, 43943), (Start: 58 @43937 has 1 MA's), (Start: 75 @43895 has 14 MA's), (Start: 123 @43853 has 98 MA's), (124, 43850), (Start: 127 @43844 has 1 MA's), (128, 43841), (131, 43832), (150, 43775),

Gene: BK1_70 Start: 44506, Stop: 44207, Start Num: 104

Candidate Starts for BK1_70:

(Start: 104 @44506 has 185 MA's), (131, 44461), (133, 44458), (157, 44389), (163, 44338),

Gene: BPBiebs31_81 Start: 48674, Stop: 48375, Start Num: 104

Candidate Starts for BPBiebs31_81:

(Start: 82 @48704 has 1 MA's), (Start: 104 @48674 has 185 MA's), (131, 48629), (133, 48626), (157, 48557), (163, 48506),

Gene: Baby16_75 Start: 45658, Stop: 45359, Start Num: 74

Candidate Starts for Baby16_75:

(Start: 74 @45658 has 115 MA's), (106, 45616),

Gene: BabyBack_76 Start: 47069, Stop: 46782, Start Num: 102

Candidate Starts for BabyBack_76:

(Start: 79 @47102 has 2 MA's), (Start: 90 @47087 has 3 MA's), (102, 47069), (106, 47063), (114, 47054), (126, 47042), (159, 46934), (164, 46898), (168, 46868),

Gene: BabyRay_78 Start: 45607, Stop: 45326, Start Num: 123

Candidate Starts for BabyRay_78:

(Start: 123 @45607 has 98 MA's), (172, 45406),

Gene: Bachome_82 Start: 45718, Stop: 45422, Start Num: 111

Candidate Starts for Bachome_82:

(Start: 111 @45718 has 23 MA's), (118, 45709), (134, 45679), (139, 45670), (160, 45580),

Gene: Backyardigan_72 Start: 45744, Stop: 45427, Start Num: 51

Candidate Starts for Backyardigan_72:

(Start: 50 @45747 has 2 MA's), (Start: 51 @45744 has 12 MA's), (61, 45729), (77, 45693), (Start: 123 @45678 has 98 MA's), (140, 45639), (150, 45606),

Gene: BaconJack_78 Start: 48829, Stop: 48530, Start Num: 104

Candidate Starts for BaconJack_78:

(Start: 82 @48859 has 1 MA's), (Start: 104 @48829 has 185 MA's), (131, 48784), (133, 48781), (157, 48712),

Gene: Bactobuster_74 Start: 46579, Stop: 46271, Start Num: 74

Candidate Starts for Bactobuster_74:

(Start: 74 @46579 has 115 MA's), (106, 46537), (140, 46477),

Gene: Badger_73 Start: 45691, Stop: 45395, Start Num: 63

Candidate Starts for Badger_73:

(Start: 50 @45712 has 2 MA's), (Start: 51 @45709 has 12 MA's), (Start: 63 @45691 has 2 MA's), (64, 45688), (77, 45658), (Start: 123 @45646 has 98 MA's), (140, 45607), (150, 45574),

Gene: Baehexic_82 Start: 47345, Stop: 47034, Start Num: 81

Candidate Starts for Baehexic_82:

(Start: 81 @47345 has 34 MA's), (95, 47333), (Start: 117 @47303 has 3 MA's), (124, 47297), (130, 47282),

Gene: BangNhom_72 Start: 46084, Stop: 45785, Start Num: 74

Candidate Starts for BangNhom_72:

(Start: 74 @46084 has 115 MA's), (106, 46042),

Gene: Barriga_83 Start: 47568, Stop: 47269, Start Num: 104

Candidate Starts for Barriga_83:

(30, 47775), (32, 47748), (42, 47706), (43, 47703), (49, 47676), (53, 47664), (Start: 58 @47655 has 1 MA's), (64, 47640), (92, 47586), (Start: 104 @47568 has 185 MA's), (131, 47523), (133, 47520), (157, 47451), (163, 47400),

Gene: Bartimeaus_75 Start: 45649, Stop: 45350, Start Num: 74

Candidate Starts for Bartimeaus_75:

(Start: 74 @45649 has 115 MA's), (106, 45607),

Gene: Beatrix_73 Start: 46834, Stop: 46535, Start Num: 104

Candidate Starts for Beatrix_73:

(67, 46894), (Start: 104 @46834 has 185 MA's), (131, 46789), (133, 46786), (157, 46717), (163, 46666),

Gene: Beauxregard13_79 Start: 45631, Stop: 45368, Start Num: 123

Candidate Starts for Beauxregard13_79:

(Start: 81 @45694 has 34 MA's), (Start: 94 @45676 has 2 MA's), (Start: 123 @45631 has 98 MA's), (131, 45610),

Gene: Beemo_87 Start: 47921, Stop: 47658, Start Num: 129

Candidate Starts for Beemo_87:

(Start: 120 @47939 has 21 MA's), (Start: 129 @47921 has 17 MA's), (139, 47900), (160, 47804),

Gene: BeesKnees_77 Start: 45937, Stop: 45638, Start Num: 104

Candidate Starts for BeesKnees_77:

(67, 45997), (Start: 104 @45937 has 185 MA's), (131, 45892), (133, 45889), (157, 45820), (163, 45769),

Gene: BellusTerra_76 Start: 45688, Stop: 45389, Start Num: 74

Candidate Starts for BellusTerra_76:

(Start: 74 @45688 has 115 MA's), (106, 45646),

Gene: Benedict_74 Start: 44660, Stop: 44376, Start Num: 120

Candidate Starts for Benedict_74:

(Start: 111 @44672 has 23 MA's), (Start: 120 @44660 has 21 MA's), (131, 44633), (160, 44528), (163, 44504),

Gene: BengiVuitton_85 Start: 47823, Stop: 47497, Start Num: 84

Candidate Starts for BengiVuitton_85:

(Start: 81 @47826 has 34 MA's), (Start: 84 @47823 has 18 MA's), (99, 47802), (124, 47772), (130, 47757), (145, 47715),

Gene: Benvolio_82 Start: 47539, Stop: 47231, Start Num: 81

Candidate Starts for Benvolio_82:

(10, 48016), (14, 47887), (25, 47737), (44, 47632), (Start: 81 @47539 has 34 MA's), (Start: 84 @47536 has 18 MA's), (Start: 117 @47494 has 3 MA's), (124, 47488), (167, 47314),

Gene: Bethlehem_79 Start: 49714, Stop: 49415, Start Num: 104

Candidate Starts for Bethlehem_79:

(Start: 82 @49744 has 1 MA's), (Start: 104 @49714 has 185 MA's), (131, 49669), (133, 49666), (157, 49597), (163, 49546),

Gene: Bexan_71 Start: 46608, Stop: 46309, Start Num: 104

Candidate Starts for Bexan_71:

(67, 46668), (Start: 104 @46608 has 185 MA's), (131, 46563), (133, 46560), (157, 46491), (163, 46440),

Gene: BiancaTri92_81 Start: 47402, Stop: 47094, Start Num: 84

Candidate Starts for BiancaTri92_81:

(47, 47492), (Start: 84 @47402 has 18 MA's), (86, 47399), (Start: 117 @47357 has 3 MA's), (130, 47336),

Gene: Big3_77 Start: 48641, Stop: 48342, Start Num: 104

Candidate Starts for Big3_77:

(92, 48659), (Start: 104 @48641 has 185 MA's), (131, 48596), (133, 48593), (157, 48524), (163, 48473),

Gene: BigMau_79 Start: 48424, Stop: 48125, Start Num: 104

Candidate Starts for BigMau_79:

(67, 48484), (Start: 104 @48424 has 185 MA's), (131, 48379), (133, 48376), (157, 48307), (163, 48256),

Gene: BigPaolini_74 Start: 45813, Stop: 45508, Start Num: 100

Candidate Starts for BigPaolini_74:

(Start: 100 @45813 has 2 MA's), (Start: 104 @45807 has 185 MA's), (131, 45762), (133, 45759), (157, 45690), (163, 45639),

Gene: Bigfoot_71 Start: 46904, Stop: 46605, Start Num: 104

Candidate Starts for Bigfoot_71:

(67, 46964), (Start: 104 @46904 has 185 MA's), (131, 46859), (133, 46856), (157, 46787), (163, 46736),

Gene: BillKnuckles_70 Start: 46811, Stop: 46512, Start Num: 104

Candidate Starts for BillKnuckles_70:

(67, 46871), (Start: 104 @46811 has 185 MA's), (131, 46766), (133, 46763), (157, 46694), (163, 46643),

Gene: Bircsak_77 Start: 49499, Stop: 49200, Start Num: 104

Candidate Starts for Bircsak_77:

(67, 49559), (Start: 104 @49499 has 185 MA's), (131, 49454), (133, 49451), (157, 49382), (163, 49331),

Gene: Blackmooor_74 Start: 45649, Stop: 45350, Start Num: 74
Candidate Starts for Blackmooor_74:
(Start: 74 @45649 has 115 MA's), (106, 45607),

Gene: Blinn1_87 Start: 46595, Stop: 46263, Start Num: 58
Candidate Starts for Blinn1_87:
(31, 46697), (36, 46667), (54, 46601), (Start: 58 @46595 has 1 MA's), (Start: 75 @46553 has 14 MA's), (124, 46508), (Start: 127 @46502 has 1 MA's), (128, 46499), (131, 46490),

Gene: BluSpix_73 Start: 42393, Stop: 42064, Start Num: 82
Candidate Starts for BluSpix_73:
(Start: 82 @42393 has 1 MA's), (Start: 104 @42363 has 185 MA's), (131, 42318), (133, 42315), (157, 42246), (163, 42195),

Gene: Blue_73 Start: 46715, Stop: 46416, Start Num: 104
Candidate Starts for Blue_73:
(67, 46775), (Start: 104 @46715 has 185 MA's), (131, 46670), (133, 46667), (157, 46598), (163, 46547),

Gene: Blue7_85 Start: 45698, Stop: 45435, Start Num: 109
Candidate Starts for Blue7_85:
(23, 45998), (27, 45941), (28, 45938), (33, 45893), (69, 45770), (Start: 109 @45698 has 18 MA's), (Start: 123 @45686 has 98 MA's), (126, 45680), (140, 45641),

Gene: BlueBird_81 Start: 46036, Stop: 45764, Start Num: 123
Candidate Starts for BlueBird_81:
(Start: 123 @46036 has 98 MA's),

Gene: Bluefalcon_66 Start: 44078, Stop: 43782, Start Num: 110
Candidate Starts for Bluefalcon_66:
(68, 44150), (96, 44099), (103, 44090), (Start: 110 @44078 has 7 MA's), (Start: 115 @44072 has 1 MA's), (133, 44036), (139, 44024),

Gene: Bob3_77 Start: 47691, Stop: 47392, Start Num: 104
Candidate Starts for Bob3_77:
(67, 47751), (Start: 104 @47691 has 185 MA's), (131, 47646), (133, 47643), (157, 47574), (163, 47523),

Gene: BobSwaget_77 Start: 45351, Stop: 45037, Start Num: 72
Candidate Starts for BobSwaget_77:
(Start: 72 @45351 has 5 MA's), (96, 45324), (102, 45315),

Gene: BogosyJay_86 Start: 47989, Stop: 47711, Start Num: 120
Candidate Starts for BogosyJay_86:
(Start: 120 @47989 has 21 MA's), (139, 47950),

Gene: Bombshell_75 Start: 45644, Stop: 45345, Start Num: 74
Candidate Starts for Bombshell_75:
(Start: 74 @45644 has 115 MA's), (106, 45602),

Gene: Bones_72 Start: 46997, Stop: 46698, Start Num: 104
Candidate Starts for Bones_72:

(67, 47057), (Start: 104 @46997 has 185 MA's), (131, 46952), (133, 46949), (157, 46880), (163, 46829),

Gene: Bowtie_81 Start: 45445, Stop: 45149, Start Num: 111

Candidate Starts for Bowtie_81:

(Start: 111 @45445 has 23 MA's), (118, 45436), (Start: 120 @45433 has 21 MA's), (134, 45406), (139, 45397), (160, 45307),

Gene: BreSam8_80 Start: 45666, Stop: 45358, Start Num: 94

Candidate Starts for BreSam8_80:

(Start: 81 @45684 has 34 MA's), (Start: 94 @45666 has 2 MA's), (Start: 123 @45621 has 98 MA's),

Gene: Briton15_79 Start: 48077, Stop: 47778, Start Num: 104

Candidate Starts for Briton15_79:

(67, 48137), (Start: 104 @48077 has 185 MA's), (131, 48032), (133, 48029), (157, 47960), (163, 47909),

Gene: Broseidon_75 Start: 45650, Stop: 45351, Start Num: 74

Candidate Starts for Broseidon_75:

(Start: 74 @45650 has 115 MA's), (106, 45608),

Gene: Bruiser_74 Start: 45647, Stop: 45348, Start Num: 74

Candidate Starts for Bruiser_74:

(Start: 74 @45647 has 115 MA's), (106, 45605),

Gene: Bruns_79 Start: 46940, Stop: 46641, Start Num: 104

Candidate Starts for Bruns_79:

(67, 47000), (Start: 104 @46940 has 185 MA's), (131, 46895), (133, 46892), (157, 46823), (163, 46772),

Gene: BubbleTrouble_74 Start: 45674, Stop: 45375, Start Num: 74

Candidate Starts for BubbleTrouble_74:

(Start: 74 @45674 has 115 MA's), (106, 45632),

Gene: Bud_79 Start: 45275, Stop: 44979, Start Num: 111

Candidate Starts for Bud_79:

(Start: 111 @45275 has 23 MA's), (118, 45266), (Start: 120 @45263 has 21 MA's), (134, 45236), (139, 45227), (160, 45137),

Gene: Bugatti_79 Start: 46036, Stop: 45764, Start Num: 123

Candidate Starts for Bugatti_79:

(Start: 123 @46036 has 98 MA's),

Gene: Bumblebee11_73 Start: 45711, Stop: 45397, Start Num: 50

Candidate Starts for Bumblebee11_73:

(Start: 50 @45711 has 2 MA's), (Start: 51 @45708 has 12 MA's), (Start: 63 @45690 has 2 MA's), (64, 45687), (77, 45657), (Start: 123 @45645 has 98 MA's), (140, 45606), (150, 45573),

Gene: Burger_73 Start: 45647, Stop: 45348, Start Num: 74

Candidate Starts for Burger_73:

(Start: 74 @45647 has 115 MA's), (106, 45605),

Gene: Burton_77 Start: 49106, Stop: 48807, Start Num: 104

Candidate Starts for Burton_77:

(Start: 82 @49136 has 1 MA's), (Start: 104 @49106 has 185 MA's), (131, 49061), (133, 49058), (157, 48989), (163, 48938),

Gene: Buttons_73 Start: 45207, Stop: 44908, Start Num: 104

Candidate Starts for Buttons_73:

(Start: 104 @45207 has 185 MA's), (131, 45162), (133, 45159), (157, 45090), (163, 45039),

Gene: BuzzBuzz_74 Start: 45656, Stop: 45393, Start Num: 123

Candidate Starts for BuzzBuzz_74:

(Start: 81 @45719 has 34 MA's), (Start: 94 @45701 has 2 MA's), (Start: 123 @45656 has 98 MA's), (131, 45635),

Gene: Bxb1_70 Start: 45323, Stop: 45024, Start Num: 104

Candidate Starts for Bxb1_70:

(Start: 104 @45323 has 185 MA's), (131, 45278), (133, 45275), (157, 45206), (163, 45155),

Gene: Bxz2_75 Start: 45663, Stop: 45400, Start Num: 123

Candidate Starts for Bxz2_75:

(Start: 81 @45726 has 34 MA's), (Start: 94 @45708 has 2 MA's), (Start: 123 @45663 has 98 MA's), (131, 45642),

Gene: C3_75 Start: 46132, Stop: 45854, Start Num: 122

Candidate Starts for C3_75:

(Start: 122 @46132 has 16 MA's), (135, 46099), (139, 46093), (165, 45958),

Gene: CRB1_84 Start: 47974, Stop: 47651, Start Num: 81

Candidate Starts for CRB1_84:

(Start: 81 @47974 has 34 MA's), (130, 47908), (145, 47866),

Gene: CactusRose_79 Start: 47921, Stop: 47622, Start Num: 104

Candidate Starts for CactusRose_79:

(67, 47981), (Start: 104 @47921 has 185 MA's), (131, 47876), (133, 47873), (157, 47804), (163, 47753),

Gene: Caelakin_73 Start: 45647, Stop: 45348, Start Num: 74

Candidate Starts for Caelakin_73:

(Start: 74 @45647 has 115 MA's), (106, 45605),

Gene: Camperdownii_73 Start: 45334, Stop: 45020, Start Num: 51

Candidate Starts for Camperdownii_73:

(Start: 50 @45337 has 2 MA's), (Start: 51 @45334 has 12 MA's), (Start: 63 @45316 has 2 MA's), (64, 45313), (Start: 123 @45271 has 98 MA's), (140, 45232),

Gene: Candra_81 Start: 45632, Stop: 45300, Start Num: 58

Candidate Starts for Candra_81:

(31, 45734), (36, 45704), (54, 45638), (Start: 58 @45632 has 1 MA's), (Start: 75 @45590 has 14 MA's), (Start: 123 @45548 has 98 MA's), (124, 45545), (Start: 127 @45539 has 1 MA's), (128, 45536), (131, 45527), (150, 45470), (154, 45455),

Gene: Carlyle_77 Start: 46395, Stop: 46096, Start Num: 104

Candidate Starts for Carlyle_77:

(67, 46455), (Start: 104 @46395 has 185 MA's), (131, 46350), (133, 46347), (157, 46278), (163, 46227),

Gene: Catalina_89 Start: 48034, Stop: 47768, Start Num: 129

Candidate Starts for Catalina_89:

(Start: 120 @48052 has 21 MA's), (Start: 129 @48034 has 17 MA's), (139, 48013), (160, 47917),

Gene: Centaur_83 Start: 47223, Stop: 46912, Start Num: 81

Candidate Starts for Centaur_83:

(Start: 81 @47223 has 34 MA's), (95, 47211), (Start: 117 @47181 has 3 MA's), (124, 47175), (130, 47160),

Gene: CentreCat_75 Start: 45687, Stop: 45388, Start Num: 74

Candidate Starts for CentreCat_75:

(Start: 74 @45687 has 115 MA's), (106, 45645),

Gene: Cerulean_77 Start: 46085, Stop: 45786, Start Num: 74

Candidate Starts for Cerulean_77:

(Start: 74 @46085 has 115 MA's), (106, 46043),

Gene: Chadwick_74 Start: 44404, Stop: 44120, Start Num: 120

Candidate Starts for Chadwick_74:

(Start: 111 @44416 has 23 MA's), (Start: 120 @44404 has 21 MA's), (131, 44377), (160, 44272), (163, 44248),

Gene: ChampagnePapi_78 Start: 46087, Stop: 45785, Start Num: 74

Candidate Starts for ChampagnePapi_78:

(Start: 74 @46087 has 115 MA's), (106, 46045), (150, 45967),

Gene: Chanagan_71 Start: 45356, Stop: 45057, Start Num: 104

Candidate Starts for Chanagan_71:

(67, 45416), (Start: 104 @45356 has 185 MA's), (131, 45311), (133, 45308), (157, 45239), (163, 45188),

Gene: Changeling_82 Start: 47917, Stop: 47612, Start Num: 88

Candidate Starts for Changeling_82:

(Start: 88 @47917 has 4 MA's), (97, 47905), (99, 47902), (101, 47899), (Start: 117 @47878 has 3 MA's), (130, 47857),

Gene: Chaph_75 Start: 45658, Stop: 45359, Start Num: 74

Candidate Starts for Chaph_75:

(Start: 74 @45658 has 115 MA's), (106, 45616),

Gene: Chargerpower_83 Start: 45994, Stop: 45686, Start Num: 122

Candidate Starts for Chargerpower_83:

(29, 46240), (Start: 122 @45994 has 16 MA's), (142, 45949), (143, 45946), (160, 45856),

Gene: Charm_82 Start: 47297, Stop: 47064, Start Num: 141

Candidate Starts for Charm_82:

(29, 47579), (Start: 120 @47333 has 21 MA's), (Start: 141 @47297 has 2 MA's),

Gene: Chartreuse_80 Start: 44847, Stop: 44611, Start Num: 128

Candidate Starts for Chartreuse_80:

(31, 45045), (36, 45015), (54, 44949), (Start: 58 @44943 has 1 MA's), (Start: 75 @44901 has 14 MA's), (Start: 123 @44859 has 98 MA's), (124, 44856), (Start: 127 @44850 has 1 MA's), (128, 44847), (131, 44838), (150, 44781),

Gene: ChipMunk_84 Start: 48884, Stop: 48579, Start Num: 81

Candidate Starts for ChipMunk_84:

(Start: 81 @48884 has 34 MA's), (Start: 117 @48845 has 3 MA's), (124, 48839), (167, 48665),

Gene: Chupacabra_80 Start: 48379, Stop: 48086, Start Num: 108

Candidate Starts for Chupacabra_80:

(16, 48739), (24, 48643), (Start: 108 @48379 has 13 MA's), (Start: 141 @48325 has 2 MA's),

Gene: Ciao_73 Start: 45516, Stop: 45217, Start Num: 104

Candidate Starts for Ciao_73:

(67, 45576), (Start: 104 @45516 has 185 MA's), (131, 45471), (133, 45468), (157, 45399), (163, 45348),

Gene: Cici_74 Start: 45723, Stop: 45412, Start Num: 51

Candidate Starts for Cici_74:

(Start: 50 @45726 has 2 MA's), (Start: 51 @45723 has 12 MA's), (Start: 63 @45705 has 2 MA's), (64, 45702), (77, 45672), (Start: 123 @45660 has 98 MA's), (140, 45621), (150, 45588),

Gene: Cindaradix_70 Start: 45542, Stop: 45246, Start Num: 73

Candidate Starts for Cindaradix_70:

(Start: 73 @45542 has 5 MA's), (Start: 104 @45521 has 185 MA's), (Start: 123 @45503 has 98 MA's),

Gene: Cintron_76 Start: 45786, Stop: 45499, Start Num: 80

Candidate Starts for Cintron_76:

(21, 46035), (37, 45912), (66, 45819), (Start: 72 @45804 has 5 MA's), (Start: 73 @45801 has 5 MA's), (Start: 80 @45786 has 1 MA's),

Gene: Citius_75 Start: 45668, Stop: 45369, Start Num: 74

Candidate Starts for Citius_75:

(Start: 74 @45668 has 115 MA's), (106, 45626),

Gene: Clarenza_74 Start: 45644, Stop: 45345, Start Num: 74

Candidate Starts for Clarenza_74:

(Start: 74 @45644 has 115 MA's), (106, 45602),

Gene: CloudWang3_84 Start: 46008, Stop: 45697, Start Num: 109

Candidate Starts for CloudWang3_84:

(11, 46461), (26, 46254), (28, 46248), (69, 46080), (Start: 109 @46008 has 18 MA's), (Start: 122 @45990 has 16 MA's), (Start: 123 @45987 has 98 MA's), (124, 45984), (Start: 129 @45972 has 17 MA's), (131, 45966), (132, 45963), (140, 45942), (148, 45906),

Gene: Cocoaberry_75 Start: 45648, Stop: 45349, Start Num: 74

Candidate Starts for Cocoaberry_75:

(Start: 74 @45648 has 115 MA's), (106, 45606),

Gene: Colbster_76 Start: 45631, Stop: 45368, Start Num: 123

Candidate Starts for Colbster_76:

(Start: 81 @45694 has 34 MA's), (Start: 94 @45676 has 2 MA's), (Start: 123 @45631 has 98 MA's), (131, 45610),

Gene: Colin_82 Start: 48298, Stop: 47996, Start Num: 81
Candidate Starts for Colin_82:
(Start: 81 @48298 has 34 MA's),

Gene: Commander_73 Start: 45645, Stop: 45346, Start Num: 74
Candidate Starts for Commander_73:
(Start: 74 @45645 has 115 MA's), (106, 45603),

Gene: ConceptII_81 Start: 48948, Stop: 48649, Start Num: 104
Candidate Starts for ConceptII_81:
(97, 48954), (Start: 104 @48948 has 185 MA's), (131, 48903), (133, 48900), (157, 48831), (163, 48780),

Gene: Connomayer_75 Start: 45647, Stop: 45348, Start Num: 74
Candidate Starts for Connomayer_75:
(Start: 74 @45647 has 115 MA's), (106, 45605),

Gene: Conquerage_85 Start: 47696, Stop: 47433, Start Num: 129
Candidate Starts for Conquerage_85:
(Start: 120 @47714 has 21 MA's), (Start: 129 @47696 has 17 MA's), (139, 47675), (160, 47579),

Gene: Coog_67 Start: 44122, Stop: 43820, Start Num: 107
Candidate Starts for Coog_67:
(Start: 107 @44122 has 3 MA's), (135, 44071), (137, 44068), (162, 43960), (165, 43936),

Gene: Cookiedough_83 Start: 46208, Stop: 45918, Start Num: 75
Candidate Starts for Cookiedough_83:
(31, 46352), (36, 46322), (54, 46256), (Start: 58 @46250 has 1 MA's), (Start: 75 @46208 has 14 MA's), (Start: 123 @46166 has 98 MA's), (124, 46163), (Start: 127 @46157 has 1 MA's), (128, 46154), (131, 46145), (150, 46088),

Gene: Corvo_78 Start: 48597, Stop: 48298, Start Num: 104
Candidate Starts for Corvo_78:
(Start: 82 @48627 has 1 MA's), (Start: 104 @48597 has 185 MA's), (131, 48552), (133, 48549), (157, 48480), (163, 48429),

Gene: Crispicous1_71 Start: 45038, Stop: 44739, Start Num: 104
Candidate Starts for Crispicous1_71:
(67, 45098), (Start: 104 @45038 has 185 MA's), (131, 44993), (133, 44990), (157, 44921), (163, 44870),

Gene: Crucio_83 Start: 47825, Stop: 47466, Start Num: 81
Candidate Starts for Crucio_83:
(Start: 81 @47825 has 34 MA's), (124, 47777), (130, 47762), (171, 47552),

Gene: Cuco_69 Start: 43982, Stop: 43680, Start Num: 107
Candidate Starts for Cuco_69:
(Start: 107 @43982 has 3 MA's), (135, 43931), (137, 43928), (162, 43820), (165, 43796),

Gene: Cullens_81 Start: 45630, Stop: 45367, Start Num: 123
Candidate Starts for Cullens_81:

(Start: 81 @45693 has 34 MA's), (Start: 94 @45675 has 2 MA's), (Start: 123 @45630 has 98 MA's), (131, 45609),

Gene: DBQu4n_83 Start: 47177, Stop: 46899, Start Num: 122
Candidate Starts for DBQu4n_83:
(Start: 122 @47177 has 16 MA's), (135, 47144), (139, 47138), (165, 47003),

Gene: DD5_74 Start: 47123, Stop: 46824, Start Num: 104
Candidate Starts for DD5_74:
(67, 47183), (Start: 104 @47123 has 185 MA's), (131, 47078), (133, 47075), (157, 47006), (163, 46955),

Gene: DaHudson_79 Start: 45620, Stop: 45357, Start Num: 123
Candidate Starts for DaHudson_79:
(Start: 81 @45683 has 34 MA's), (Start: 94 @45665 has 2 MA's), (Start: 123 @45620 has 98 MA's),

Gene: DaVinci_81 Start: 44955, Stop: 44665, Start Num: 75
Candidate Starts for DaVinci_81:
(31, 45099), (36, 45069), (54, 45003), (Start: 58 @44997 has 1 MA's), (Start: 75 @44955 has 14 MA's), (Start: 123 @44913 has 98 MA's), (124, 44910), (Start: 127 @44904 has 1 MA's), (128, 44901), (131, 44892), (150, 44835),

Gene: Daishi_79 Start: 44497, Stop: 44234, Start Num: 123
Candidate Starts for Daishi_79:
(Start: 81 @44560 has 34 MA's), (Start: 94 @44542 has 2 MA's), (Start: 123 @44497 has 98 MA's), (131, 44476),

Gene: Dalmatian_83 Start: 47647, Stop: 47291, Start Num: 81
Candidate Starts for Dalmatian_83:
(Start: 81 @47647 has 34 MA's), (124, 47602), (130, 47587), (171, 47377),

Gene: Darrell_85 Start: 47124, Stop: 46864, Start Num: 129
Candidate Starts for Darrell_85:
(Start: 120 @47142 has 21 MA's), (Start: 129 @47124 has 17 MA's), (139, 47103),

Gene: DarthPhader_78 Start: 46974, Stop: 46699, Start Num: 112
Candidate Starts for DarthPhader_78:
(48, 47103), (60, 47070), (65, 47061), (Start: 112 @46974 has 5 MA's), (126, 46953), (135, 46929), (142, 46917),

Gene: Datway_74 Start: 45727, Stop: 45410, Start Num: 51
Candidate Starts for Datway_74:
(Start: 50 @45730 has 2 MA's), (Start: 51 @45727 has 12 MA's), (61, 45712), (77, 45676), (Start: 123 @45661 has 98 MA's), (140, 45622), (150, 45589),

Gene: Deano_72 Start: 45655, Stop: 45356, Start Num: 74
Candidate Starts for Deano_72:
(Start: 74 @45655 has 115 MA's), (106, 45613),

Gene: Deloris_85 Start: 47519, Stop: 47190, Start Num: 81
Candidate Starts for Deloris_85:
(Start: 81 @47519 has 34 MA's), (Start: 84 @47516 has 18 MA's), (99, 47495), (124, 47465), (130, 47450), (145, 47408),

Gene: Dexes_77 Start: 49539, Stop: 49240, Start Num: 104

Candidate Starts for Dexes_77:

(30, 49746), (32, 49719), (42, 49677), (43, 49674), (49, 49647), (53, 49635), (Start: 58 @49626 has 1 MA's), (64, 49611), (92, 49557), (Start: 104 @49539 has 185 MA's), (131, 49494), (133, 49491), (157, 49422), (163, 49371),

Gene: Dhanush_75 Start: 45650, Stop: 45351, Start Num: 74

Candidate Starts for Dhanush_75:

(Start: 74 @45650 has 115 MA's), (106, 45608),

Gene: Dieselweasel_81 Start: 45629, Stop: 45366, Start Num: 123

Candidate Starts for Dieselweasel_81:

(Start: 81 @45692 has 34 MA's), (Start: 94 @45674 has 2 MA's), (Start: 123 @45629 has 98 MA's), (131, 45608),

Gene: Dignity_85 Start: 48061, Stop: 47753, Start Num: 81

Candidate Starts for Dignity_85:

(Start: 81 @48061 has 34 MA's), (Start: 84 @48058 has 18 MA's), (124, 48010), (130, 47995), (167, 47836),

Gene: DirtyDunning_74 Start: 45659, Stop: 45360, Start Num: 74

Candidate Starts for DirtyDunning_74:

(Start: 74 @45659 has 115 MA's), (106, 45617),

Gene: Doom_69 Start: 45750, Stop: 45451, Start Num: 104

Candidate Starts for Doom_69:

(Start: 100 @45756 has 2 MA's), (Start: 104 @45750 has 185 MA's), (131, 45705), (133, 45702), (157, 45633), (163, 45582),

Gene: Dorothea_80 Start: 46243, Stop: 45911, Start Num: 58

Candidate Starts for Dorothea_80:

(31, 46345), (36, 46315), (54, 46249), (Start: 58 @46243 has 1 MA's), (Start: 75 @46201 has 14 MA's), (Start: 123 @46159 has 98 MA's), (124, 46156), (Start: 127 @46150 has 1 MA's), (128, 46147), (131, 46138), (150, 46081),

Gene: DrFeelGood_72 Start: 45126, Stop: 44827, Start Num: 104

Candidate Starts for DrFeelGood_72:

(Start: 82 @45156 has 1 MA's), (Start: 104 @45126 has 185 MA's), (131, 45081), (133, 45078), (157, 45009), (163, 44958),

Gene: Drake55_84 Start: 47474, Stop: 47163, Start Num: 81

Candidate Starts for Drake55_84:

(Start: 81 @47474 has 34 MA's), (95, 47462), (Start: 117 @47432 has 3 MA's), (124, 47426), (130, 47411),

Gene: Drake94_80 Start: 47533, Stop: 47246, Start Num: 108

Candidate Starts for Drake94_80:

(2, 48340), (3, 48319), (4, 48307), (16, 47893), (24, 47797), (Start: 108 @47533 has 13 MA's), (Start: 123 @47518 has 98 MA's), (133, 47500),

Gene: DreamCatcher_80 Start: 47927, Stop: 47628, Start Num: 104

Candidate Starts for DreamCatcher_80:

(67, 47987), (Start: 104 @47927 has 185 MA's), (131, 47882), (133, 47879), (157, 47810), (163, 47759),

Gene: DreamTeam1_82 Start: 47145, Stop: 46912, Start Num: 141

Candidate Starts for DreamTeam1_82:

(29, 47427), (Start: 120 @47181 has 21 MA's), (Start: 141 @47145 has 2 MA's),

Gene: Dreamboat_76 Start: 45409, Stop: 45110, Start Num: 104

Candidate Starts for Dreamboat_76:

(67, 45469), (Start: 104 @45409 has 185 MA's), (131, 45364), (133, 45361), (157, 45292), (163, 45241),

Gene: DroogsArmy_74 Start: 48703, Stop: 48410, Start Num: 90

Candidate Starts for DroogsArmy_74:

(35, 48850), (44, 48817), (Start: 90 @48703 has 3 MA's), (Start: 109 @48673 has 18 MA's), (130, 48643),

Gene: Druantia_74 Start: 45650, Stop: 45351, Start Num: 74

Candidate Starts for Druantia_74:

(Start: 74 @45650 has 115 MA's),

Gene: Dublin_70 Start: 44258, Stop: 43959, Start Num: 110

Candidate Starts for Dublin_70:

(103, 44270), (Start: 110 @44258 has 7 MA's), (Start: 115 @44252 has 1 MA's), (133, 44216), (139, 44204), (160, 44114), (165, 44075),

Gene: DudeLittle_81 Start: 47365, Stop: 47060, Start Num: 84

Candidate Starts for DudeLittle_81:

(Start: 84 @47365 has 18 MA's), (124, 47320), (130, 47305), (145, 47263), (167, 47146),

Gene: Dulcie_77 Start: 49203, Stop: 48904, Start Num: 104

Candidate Starts for Dulcie_77:

(Start: 82 @49233 has 1 MA's), (Start: 104 @49203 has 185 MA's), (131, 49158), (133, 49155), (157, 49086), (163, 49035),

Gene: Duplo_84 Start: 47234, Stop: 46956, Start Num: 122

Candidate Starts for Duplo_84:

(Start: 122 @47234 has 16 MA's), (135, 47201), (139, 47195), (165, 47060),

Gene: Dussy_75 Start: 46788, Stop: 46489, Start Num: 104

Candidate Starts for Dussy_75:

(Start: 82 @46818 has 1 MA's), (Start: 104 @46788 has 185 MA's), (131, 46743), (133, 46740), (157, 46671), (163, 46620),

Gene: Dynamix_76 Start: 45843, Stop: 45544, Start Num: 104

Candidate Starts for Dynamix_76:

(67, 45903), (Start: 104 @45843 has 185 MA's), (131, 45798), (133, 45795), (157, 45726), (163, 45675),

Gene: EZMoney23_79 Start: 46912, Stop: 46625, Start Num: 99

Candidate Starts for EZMoney23_79:

(22, 47167), (Start: 81 @46927 has 34 MA's), (99, 46912), (101, 46909), (Start: 117 @46888 has 3 MA's),

Gene: Eagle_74 Start: 45709, Stop: 45410, Start Num: 74
Candidate Starts for Eagle_74:
(Start: 74 @45709 has 115 MA's),

Gene: EagleEye_83 Start: 46835, Stop: 46572, Start Num: 120
Candidate Starts for EagleEye_83:
(9, 47399), (29, 47081), (Start: 120 @46835 has 21 MA's), (142, 46799), (143, 46796),

Gene: Eaglepride_86 Start: 48465, Stop: 48175, Start Num: 108
Candidate Starts for Eaglepride_86:
(Start: 108 @48465 has 13 MA's),

Gene: Eapen_75 Start: 45642, Stop: 45343, Start Num: 74
Candidate Starts for Eapen_75:
(45, 45714), (Start: 74 @45642 has 115 MA's), (106, 45600),

Gene: Ebony_84 Start: 46409, Stop: 46113, Start Num: 111
Candidate Starts for Ebony_84:
(Start: 111 @46409 has 23 MA's), (118, 46400), (134, 46370), (139, 46361), (160, 46271),

Gene: Echild_85 Start: 47560, Stop: 47255, Start Num: 84
Candidate Starts for Echild_85:
(10, 48040), (14, 47911), (25, 47761), (44, 47656), (Start: 81 @47563 has 34 MA's), (Start: 84 @47560 has 18 MA's), (Start: 117 @47518 has 3 MA's), (124, 47512), (167, 47338),

Gene: Edtherson_75 Start: 47019, Stop: 46720, Start Num: 104
Candidate Starts for Edtherson_75:
(67, 47079), (Start: 104 @47019 has 185 MA's), (131, 46974), (133, 46971), (157, 46902), (163, 46851),

Gene: Eidsmoe_85 Start: 47688, Stop: 47425, Start Num: 129
Candidate Starts for Eidsmoe_85:
(Start: 120 @47706 has 21 MA's), (Start: 129 @47688 has 17 MA's), (139, 47667), (160, 47571),

Gene: EITiger69_76 Start: 45331, Stop: 45047, Start Num: 120
Candidate Starts for EITiger69_76:
(Start: 111 @45343 has 23 MA's), (Start: 120 @45331 has 21 MA's), (131, 45304), (160, 45199), (163, 45175),

Gene: Elephantoon_87 Start: 47851, Stop: 47588, Start Num: 129
Candidate Starts for Elephantoon_87:
(Start: 120 @47869 has 21 MA's), (Start: 129 @47851 has 17 MA's), (139, 47830),

Gene: EmyBug_81 Start: 47690, Stop: 47427, Start Num: 129
Candidate Starts for EmyBug_81:
(Start: 120 @47708 has 21 MA's), (Start: 129 @47690 has 17 MA's), (139, 47669), (160, 47573),

Gene: EpicPhail_81 Start: 45631, Stop: 45368, Start Num: 123
Candidate Starts for EpicPhail_81:
(Start: 81 @45694 has 34 MA's), (Start: 94 @45676 has 2 MA's), (Start: 123 @45631 has 98 MA's), (131, 45610),

Gene: Equemioh13_83 Start: 47452, Stop: 47141, Start Num: 81
Candidate Starts for Equemioh13_83:
(Start: 81 @47452 has 34 MA's), (95, 47440), (Start: 117 @47410 has 3 MA's), (124, 47404), (130, 47389),

Gene: EricB_82 Start: 45496, Stop: 45257, Start Num: 127
Candidate Starts for EricB_82:
(Start: 75 @45547 has 14 MA's), (Start: 123 @45505 has 98 MA's), (124, 45502), (Start: 127 @45496 has 1 MA's), (128, 45493), (131, 45484), (150, 45427),

Gene: Eris_74 Start: 45659, Stop: 45360, Start Num: 74
Candidate Starts for Eris_74:
(Start: 74 @45659 has 115 MA's), (106, 45617),

Gene: Eros_75 Start: 45649, Stop: 45350, Start Num: 74
Candidate Starts for Eros_75:
(Start: 74 @45649 has 115 MA's), (106, 45607),

Gene: Espresso_69 Start: 45691, Stop: 45392, Start Num: 104
Candidate Starts for Espresso_69:
(Start: 82 @45721 has 1 MA's), (Start: 104 @45691 has 185 MA's), (131, 45646), (133, 45643), (157, 45574), (163, 45523),

Gene: Et2Brutus_83 Start: 46372, Stop: 46076, Start Num: 111
Candidate Starts for Et2Brutus_83:
(Start: 111 @46372 has 23 MA's), (118, 46363), (134, 46333), (139, 46324), (160, 46234),

Gene: Euphoria_77 Start: 47608, Stop: 47309, Start Num: 104
Candidate Starts for Euphoria_77:
(Start: 82 @47638 has 1 MA's), (Start: 104 @47608 has 185 MA's), (131, 47563), (133, 47560), (157, 47491),

Gene: Eurydice_76 Start: 45684, Stop: 45385, Start Num: 74
Candidate Starts for Eurydice_76:
(Start: 74 @45684 has 115 MA's), (106, 45642),

Gene: EvilGenius_83 Start: 48885, Stop: 48580, Start Num: 81
Candidate Starts for EvilGenius_83:
(Start: 81 @48885 has 34 MA's), (Start: 117 @48846 has 3 MA's), (124, 48840), (167, 48666),

Gene: ExplosioNervosa_85 Start: 47756, Stop: 47493, Start Num: 129
Candidate Starts for ExplosioNervosa_85:
(Start: 120 @47774 has 21 MA's), (Start: 129 @47756 has 17 MA's), (139, 47735), (160, 47639),

Gene: Eyeball_75 Start: 46893, Stop: 46594, Start Num: 104
Candidate Starts for Eyeball_75:
(Start: 82 @46923 has 1 MA's), (Start: 104 @46893 has 185 MA's), (131, 46848), (133, 46845), (157, 46776), (163, 46725),

Gene: Fajezeel_79 Start: 48129, Stop: 47830, Start Num: 104
Candidate Starts for Fajezeel_79:
(Start: 82 @48159 has 1 MA's), (Start: 104 @48129 has 185 MA's), (131, 48084), (133, 48081), (157, 48012), (163, 47961),

Gene: Fameo_81 Start: 47377, Stop: 47072, Start Num: 84
Candidate Starts for Fameo_81:
(Start: 84 @47377 has 18 MA's), (124, 47332), (167, 47158),

Gene: Farber_80 Start: 45617, Stop: 45354, Start Num: 123
Candidate Starts for Farber_80:
(Start: 81 @45680 has 34 MA's), (Start: 94 @45662 has 2 MA's), (Start: 123 @45617 has 98 MA's),
(131, 45596),

Gene: Fascinus_72 Start: 47417, Stop: 47118, Start Num: 104
Candidate Starts for Fascinus_72:
(67, 47477), (Start: 104 @47417 has 185 MA's), (131, 47372), (133, 47369), (157, 47300), (163,
47249),

Gene: Fayely_85 Start: 47682, Stop: 47401, Start Num: 120
Candidate Starts for Fayely_85:
(Start: 120 @47682 has 21 MA's), (Start: 129 @47664 has 17 MA's), (139, 47643), (160, 47547),

Gene: Fenn_79 Start: 47948, Stop: 47649, Start Num: 104
Candidate Starts for Fenn_79:
(67, 48008), (Start: 104 @47948 has 185 MA's), (131, 47903), (133, 47900), (157, 47831), (163,
47780),

Gene: Fernando_81 Start: 45630, Stop: 45367, Start Num: 123
Candidate Starts for Fernando_81:
(Start: 81 @45693 has 34 MA's), (Start: 94 @45675 has 2 MA's), (Start: 123 @45630 has 98 MA's),
(131, 45609),

Gene: Fibonacci_83 Start: 46378, Stop: 46082, Start Num: 111
Candidate Starts for Fibonacci_83:
(Start: 111 @46378 has 23 MA's), (118, 46369), (134, 46339), (139, 46330), (160, 46240),

Gene: FiringLine_83 Start: 47765, Stop: 47457, Start Num: 84
Candidate Starts for FiringLine_83:
(Start: 84 @47765 has 18 MA's), (124, 47717), (130, 47702), (145, 47660), (167, 47543),

Gene: First_0084 Start: 47621, Stop: 47298, Start Num: 81
Candidate Starts for First_0084:
(Start: 81 @47621 has 34 MA's), (130, 47555), (145, 47513),

Gene: Flare16_83 Start: 47267, Stop: 46956, Start Num: 81
Candidate Starts for Flare16_83:
(Start: 81 @47267 has 34 MA's), (95, 47255), (Start: 117 @47225 has 3 MA's), (124, 47219), (130,
47204),

Gene: Flaverint_85 Start: 46836, Stop: 46540, Start Num: 111
Candidate Starts for Flaverint_85:
(Start: 111 @46836 has 23 MA's), (118, 46827), (Start: 120 @46824 has 21 MA's), (134, 46797), (139,
46788), (160, 46698),

Gene: Florean_75 Start: 45646, Stop: 45347, Start Num: 74
Candidate Starts for Florean_75:

(Start: 74 @45646 has 115 MA's), (106, 45604),

Gene: Flux_76 Start: 45645, Stop: 45346, Start Num: 74

Candidate Starts for Flux_76:

(Start: 74 @45645 has 115 MA's), (106, 45603),

Gene: Forsytheast_78 Start: 47631, Stop: 47332, Start Num: 104

Candidate Starts for Forsytheast_78:

(Start: 82 @47661 has 1 MA's), (Start: 104 @47631 has 185 MA's), (131, 47586), (133, 47583), (157, 47514), (163, 47463),

Gene: Francis47_78 Start: 49500, Stop: 49201, Start Num: 104

Candidate Starts for Francis47_78:

(67, 49560), (Start: 104 @49500 has 185 MA's), (131, 49455), (133, 49452), (157, 49383), (163, 49332),

Gene: Fred313_76 Start: 45666, Stop: 45382, Start Num: 123

Candidate Starts for Fred313_76:

(Start: 123 @45666 has 98 MA's), (172, 45462),

Gene: Funston_74 Start: 45644, Stop: 45345, Start Num: 74

Candidate Starts for Funston_74:

(Start: 74 @45644 has 115 MA's), (106, 45602),

Gene: Fushigi_70 Start: 43949, Stop: 43650, Start Num: 104

Candidate Starts for Fushigi_70:

(67, 44009), (Start: 104 @43949 has 185 MA's), (131, 43904), (133, 43901), (157, 43832), (163, 43781),

Gene: Gadost_75 Start: 45648, Stop: 45349, Start Num: 74

Candidate Starts for Gadost_75:

(Start: 74 @45648 has 115 MA's), (106, 45606),

Gene: GageAP_79 Start: 48853, Stop: 48554, Start Num: 104

Candidate Starts for GageAP_79:

(67, 48913), (Start: 104 @48853 has 185 MA's), (131, 48808), (133, 48805), (157, 48736), (163, 48685),

Gene: Gail_84 Start: 47375, Stop: 47103, Start Num: 125

Candidate Starts for Gail_84:

(52, 47507), (59, 47495), (85, 47432), (Start: 125 @47375 has 4 MA's), (142, 47339), (155, 47291),

Gene: Gandalf20_75 Start: 46976, Stop: 46677, Start Num: 104

Candidate Starts for Gandalf20_75:

(Start: 82 @47006 has 1 MA's), (Start: 104 @46976 has 185 MA's), (131, 46931), (133, 46928), (157, 46859), (163, 46808),

Gene: Garak_85 Start: 45929, Stop: 45678, Start Num: 123

Candidate Starts for Garak_85:

(23, 46241), (27, 46184), (28, 46181), (33, 46136), (69, 46013), (Start: 109 @45941 has 18 MA's), (Start: 123 @45929 has 98 MA's), (126, 45923), (140, 45884),

Gene: GaugeLDP_77 Start: 46661, Stop: 46341, Start Num: 79

Candidate Starts for GaugeLDP_77:

(Start: 79 @46661 has 2 MA's), (Start: 90 @46646 has 3 MA's), (102, 46628), (106, 46622), (114, 46613), (164, 46457), (168, 46430),

Gene: Gemma_77 Start: 45437, Stop: 45174, Start Num: 123

Candidate Starts for Gemma_77:

(Start: 81 @45500 has 34 MA's), (Start: 94 @45482 has 2 MA's), (Start: 123 @45437 has 98 MA's), (131, 45416),

Gene: Georgie2_85 Start: 47969, Stop: 47661, Start Num: 84

Candidate Starts for Georgie2_85:

(Start: 84 @47969 has 18 MA's), (124, 47921), (130, 47906), (145, 47864), (167, 47747),

Gene: Ghouboy_70 Start: 44353, Stop: 44036, Start Num: 110

Candidate Starts for Ghouboy_70:

(68, 44425), (96, 44374), (103, 44365), (Start: 110 @44353 has 7 MA's), (Start: 115 @44347 has 1 MA's), (133, 44311), (139, 44299),

Gene: Gilberta_81 Start: 45712, Stop: 45416, Start Num: 111

Candidate Starts for Gilberta_81:

(Start: 111 @45712 has 23 MA's), (118, 45703), (134, 45673), (139, 45664), (160, 45574),

Gene: GingkoMaracino_80 Start: 45513, Stop: 45250, Start Num: 123

Candidate Starts for GingkoMaracino_80:

(Start: 81 @45576 has 34 MA's), (Start: 94 @45558 has 2 MA's), (Start: 123 @45513 has 98 MA's), (131, 45492),

Gene: Giroux_77 Start: 46035, Stop: 45763, Start Num: 123

Candidate Starts for Giroux_77:

(Start: 123 @46035 has 98 MA's),

Gene: Gladiator_80 Start: 45664, Stop: 45353, Start Num: 109

Candidate Starts for Gladiator_80:

(26, 45910), (28, 45904), (69, 45736), (Start: 109 @45664 has 18 MA's), (Start: 122 @45646 has 16 MA's), (Start: 123 @45643 has 98 MA's), (124, 45640), (126, 45637), (Start: 129 @45628 has 17 MA's), (131, 45622), (132, 45619), (140, 45598), (148, 45562),

Gene: Gompeii16_77 Start: 49500, Stop: 49201, Start Num: 104

Candidate Starts for Gompeii16_77:

(67, 49560), (Start: 104 @49500 has 185 MA's), (131, 49455), (133, 49452), (157, 49383), (163, 49332),

Gene: Goose_84 Start: 48190, Stop: 47897, Start Num: 108

Candidate Starts for Goose_84:

(16, 48550), (24, 48454), (Start: 108 @48190 has 13 MA's), (Start: 141 @48136 has 2 MA's),

Gene: Graduation_79 Start: 47476, Stop: 47177, Start Num: 104

Candidate Starts for Graduation_79:

(Start: 104 @47476 has 185 MA's), (131, 47431), (133, 47428), (157, 47359), (163, 47308),

Gene: GrecoEtereo_80 Start: 48605, Stop: 48306, Start Num: 104

Candidate Starts for GrecoEtereo_80:

(Start: 82 @48635 has 1 MA's), (Start: 104 @48605 has 185 MA's), (131, 48560), (133, 48557), (157, 48488),

Gene: GreedyLawyer_77 Start: 45520, Stop: 45230, Start Num: 75

Candidate Starts for GreedyLawyer_77:

(31, 45664), (36, 45634), (54, 45568), (Start: 58 @45562 has 1 MA's), (Start: 75 @45520 has 14 MA's), (Start: 123 @45478 has 98 MA's), (124, 45475), (Start: 127 @45469 has 1 MA's), (128, 45466), (131, 45457), (150, 45400),

Gene: Greg_79 Start: 48129, Stop: 47830, Start Num: 104

Candidate Starts for Greg_79:

(Start: 82 @48159 has 1 MA's), (Start: 104 @48129 has 185 MA's), (131, 48084), (133, 48081), (157, 48012), (163, 47961),

Gene: Grif_78 Start: 45704, Stop: 45441, Start Num: 123

Candidate Starts for Grif_78:

(Start: 81 @45767 has 34 MA's), (Start: 94 @45749 has 2 MA's), (Start: 123 @45704 has 98 MA's), (131, 45683),

Gene: Groupthink_80 Start: 45438, Stop: 45175, Start Num: 123

Candidate Starts for Groupthink_80:

(Start: 81 @45501 has 34 MA's), (Start: 94 @45483 has 2 MA's), (Start: 123 @45438 has 98 MA's), (131, 45417),

Gene: Grub_78 Start: 45620, Stop: 45357, Start Num: 123

Candidate Starts for Grub_78:

(Start: 81 @45683 has 34 MA's), (Start: 94 @45665 has 2 MA's), (Start: 123 @45620 has 98 MA's),

Gene: Grum1_80 Start: 45630, Stop: 45367, Start Num: 123

Candidate Starts for Grum1_80:

(Start: 81 @45693 has 34 MA's), (Start: 94 @45675 has 2 MA's), (Start: 123 @45630 has 98 MA's), (131, 45609),

Gene: Gruunaga_83 Start: 45619, Stop: 45308, Start Num: 109

Candidate Starts for Gruunaga_83:

(26, 45865), (28, 45859), (69, 45691), (Start: 109 @45619 has 18 MA's), (Start: 122 @45601 has 16 MA's), (Start: 123 @45598 has 98 MA's), (124, 45595), (126, 45592), (Start: 129 @45583 has 17 MA's), (131, 45577), (132, 45574), (140, 45553), (148, 45517),

Gene: GtownJaz_80 Start: 45628, Stop: 45365, Start Num: 123

Candidate Starts for GtownJaz_80:

(Start: 81 @45691 has 34 MA's), (Start: 94 @45673 has 2 MA's), (Start: 123 @45628 has 98 MA's), (131, 45607),

Gene: Gwendoluna_79 Start: 48442, Stop: 48143, Start Num: 104

Candidate Starts for Gwendoluna_79:

(Start: 82 @48472 has 1 MA's), (Start: 104 @48442 has 185 MA's), (131, 48397), (133, 48394), (157, 48325), (163, 48274),

Gene: Gyzlar_69 Start: 43801, Stop: 43514, Start Num: 104

Candidate Starts for Gyzlar_69:

(67, 43861), (Start: 104 @43801 has 185 MA's), (131, 43768), (133, 43765), (157, 43696), (163, 43645),

Gene: HINdeR_74 Start: 48078, Stop: 47791, Start Num: 90
Candidate Starts for HINdeR_74:
(35, 48225), (39, 48216), (Start: 90 @48078 has 3 MA's), (130, 48018),

Gene: HamSlice_71 Start: 45646, Stop: 45347, Start Num: 74
Candidate Starts for HamSlice_71:
(Start: 74 @45646 has 115 MA's), (106, 45604),

Gene: Hami1_66 Start: 41842, Stop: 41543, Start Num: 104
Candidate Starts for Hami1_66:
(67, 41902), (Start: 104 @41842 has 185 MA's), (131, 41797), (133, 41794), (157, 41725), (163, 41674),

Gene: Hammer_84 Start: 45326, Stop: 45015, Start Num: 109
Candidate Starts for Hammer_84:
(11, 45779), (26, 45572), (28, 45566), (69, 45398), (Start: 109 @45326 has 18 MA's), (Start: 122 @45308 has 16 MA's), (Start: 123 @45305 has 98 MA's), (124, 45302), (126, 45299), (Start: 129 @45290 has 17 MA's), (131, 45284), (132, 45281), (140, 45260), (148, 45224),

Gene: HanShotFirst_74 Start: 47407, Stop: 47108, Start Num: 104
Candidate Starts for HanShotFirst_74:
(67, 47467), (Start: 104 @47407 has 185 MA's), (131, 47362), (133, 47359), (157, 47290), (163, 47239),

Gene: Happiness_74 Start: 45670, Stop: 45368, Start Num: 74
Candidate Starts for Happiness_74:
(Start: 74 @45670 has 115 MA's), (106, 45628), (150, 45550),

Gene: HarryHoudini_83 Start: 47477, Stop: 47166, Start Num: 81
Candidate Starts for HarryHoudini_83:
(Start: 81 @47477 has 34 MA's), (95, 47465), (Start: 117 @47435 has 3 MA's), (124, 47429), (130, 47414),

Gene: HarryOW_77 Start: 48653, Stop: 48354, Start Num: 104
Candidate Starts for HarryOW_77:
(Start: 82 @48683 has 1 MA's), (Start: 104 @48653 has 185 MA's), (131, 48608), (133, 48605), (157, 48536), (163, 48485),

Gene: HashRod_81 Start: 45657, Stop: 45394, Start Num: 123
Candidate Starts for HashRod_81:
(Start: 81 @45720 has 34 MA's), (Start: 94 @45702 has 2 MA's), (Start: 123 @45657 has 98 MA's), (131, 45636),

Gene: HaveUMetTed_80 Start: 45426, Stop: 45163, Start Num: 123
Candidate Starts for HaveUMetTed_80:
(Start: 81 @45489 has 34 MA's), (Start: 94 @45471 has 2 MA's), (Start: 123 @45426 has 98 MA's), (131, 45405),

Gene: Heathen_78 Start: 45754, Stop: 45470, Start Num: 123
Candidate Starts for Heathen_78:
(Start: 123 @45754 has 98 MA's), (172, 45550),

Gene: Heffalump_80 Start: 47845, Stop: 47540, Start Num: 84
Candidate Starts for Heffalump_80:
(Start: 84 @47845 has 18 MA's), (124, 47800), (167, 47626),

Gene: HelDan_79 Start: 45977, Stop: 45693, Start Num: 123
Candidate Starts for HelDan_79:
(Start: 123 @45977 has 98 MA's), (172, 45773),

Gene: Heliosoles_77 Start: 45442, Stop: 45179, Start Num: 123
Candidate Starts for Heliosoles_77:
(Start: 81 @45505 has 34 MA's), (Start: 94 @45487 has 2 MA's), (Start: 123 @45442 has 98 MA's),
(131, 45421),

Gene: Helmet_85 Start: 45929, Stop: 45678, Start Num: 123
Candidate Starts for Helmet_85:
(23, 46241), (27, 46184), (28, 46181), (33, 46136), (69, 46013), (Start: 109 @45941 has 18 MA's),
(Start: 123 @45929 has 98 MA's), (126, 45923), (140, 45884),

Gene: Herbertwm_77 Start: 46431, Stop: 46096, Start Num: 76
Candidate Starts for Herbertwm_77:
(31, 46587), (36, 46551), (40, 46539), (54, 46485), (62, 46473), (Start: 76 @46431 has 2 MA's), (Start:
112 @46386 has 5 MA's), (140, 46332), (158, 46251), (170, 46188),

Gene: Hercules11_80 Start: 45639, Stop: 45376, Start Num: 123
Candidate Starts for Hercules11_80:
(Start: 81 @45702 has 34 MA's), (Start: 94 @45684 has 2 MA's), (Start: 123 @45639 has 98 MA's),
(131, 45618),

Gene: Hermia_71 Start: 45532, Stop: 45233, Start Num: 104
Candidate Starts for Hermia_71:
(Start: 104 @45532 has 185 MA's), (131, 45487), (133, 45484), (157, 45415), (163, 45364),

Gene: HermioneGrange_80 Start: 48918, Stop: 48619, Start Num: 104
Candidate Starts for HermioneGrange_80:
(67, 48978), (Start: 104 @48918 has 185 MA's), (131, 48873), (133, 48870), (157, 48801), (163,
48750),

Gene: Hexamo_83 Start: 45494, Stop: 45183, Start Num: 109
Candidate Starts for Hexamo_83:
(11, 45947), (26, 45740), (28, 45734), (69, 45566), (Start: 109 @45494 has 18 MA's), (Start: 122
@45476 has 16 MA's), (Start: 123 @45473 has 98 MA's), (124, 45470), (Start: 129 @45458 has 17
MA's), (131, 45452), (132, 45449), (140, 45428), (148, 45392),

Gene: Holli_74 Start: 45437, Stop: 45138, Start Num: 74
Candidate Starts for Holli_74:
(Start: 74 @45437 has 115 MA's), (106, 45395),

Gene: Homines_64 Start: 41862, Stop: 41563, Start Num: 104
Candidate Starts for Homines_64:
(Start: 104 @41862 has 185 MA's), (131, 41817), (133, 41814), (157, 41745), (160, 41718), (163,
41694),

Gene: Hookmount_79 Start: 45998, Stop: 45720, Start Num: 123

Candidate Starts for Hookmount_79:

(105, 46019), (Start: 121 @46001 has 7 MA's), (Start: 123 @45998 has 98 MA's), (131, 45980),

Gene: Hoot_78 Start: 43405, Stop: 43115, Start Num: 75

Candidate Starts for Hoot_78:

(31, 43549), (36, 43519), (54, 43453), (Start: 58 @43447 has 1 MA's), (Start: 75 @43405 has 14 MA's), (Start: 123 @43363 has 98 MA's), (124, 43360), (Start: 127 @43354 has 1 MA's), (128, 43351), (131, 43342), (150, 43285),

Gene: Hope4ever_77 Start: 47133, Stop: 46834, Start Num: 104

Candidate Starts for Hope4ever_77:

(30, 47340), (32, 47313), (42, 47271), (43, 47268), (49, 47241), (53, 47229), (Start: 58 @47220 has 1 MA's), (64, 47205), (92, 47151), (Start: 104 @47133 has 185 MA's), (131, 47088), (133, 47085), (157, 47016), (163, 46965),

Gene: HortumSL17_88 Start: 48032, Stop: 47766, Start Num: 129

Candidate Starts for HortumSL17_88:

(Start: 120 @48050 has 21 MA's), (Start: 129 @48032 has 17 MA's), (139, 48011), (160, 47915),

Gene: Houdini22_74 Start: 45648, Stop: 45349, Start Num: 74

Candidate Starts for Houdini22_74:

(Start: 74 @45648 has 115 MA's), (106, 45606),

Gene: Hutc2_80 Start: 45262, Stop: 44966, Start Num: 111

Candidate Starts for Hutc2_80:

(Start: 111 @45262 has 23 MA's), (118, 45253), (134, 45223), (139, 45214), (160, 45124),

Gene: ICleared_74 Start: 45715, Stop: 45416, Start Num: 74

Candidate Starts for ICleared_74:

(Start: 74 @45715 has 115 MA's), (106, 45673),

Gene: ILeeKay_74 Start: 45443, Stop: 45144, Start Num: 104

Candidate Starts for ILeeKay_74:

(67, 45503), (Start: 104 @45443 has 185 MA's), (131, 45398), (133, 45395), (157, 45326), (163, 45275),

Gene: Iceman_73 Start: 45937, Stop: 45638, Start Num: 74

Candidate Starts for Iceman_73:

(Start: 74 @45937 has 115 MA's), (106, 45895),

Gene: Ichabod_79 Start: 47690, Stop: 47391, Start Num: 104

Candidate Starts for Ichabod_79:

(67, 47750), (Start: 104 @47690 has 185 MA's), (131, 47645), (133, 47642), (157, 47573), (163, 47522),

Gene: Idleandcovert_79 Start: 46036, Stop: 45764, Start Num: 123

Candidate Starts for Idleandcovert_79:

(Start: 123 @46036 has 98 MA's),

Gene: IgnatiusPatJac_76 Start: 46338, Stop: 46009, Start Num: 82

Candidate Starts for IgnatiusPatJac_76:

(Start: 82 @46338 has 1 MA's), (Start: 104 @46308 has 185 MA's), (131, 46263), (133, 46260), (157, 46191), (163, 46140),

Gene: Indra_87 Start: 45942, Stop: 45679, Start Num: 109

Candidate Starts for Indra_87:

(23, 46242), (27, 46185), (28, 46182), (33, 46137), (69, 46014), (Start: 109 @45942 has 18 MA's),
(Start: 123 @45930 has 98 MA's), (126, 45924), (140, 45885),

Gene: Insomnia_82 Start: 46556, Stop: 46257, Start Num: 111

Candidate Starts for Insomnia_82:

(Start: 111 @46556 has 23 MA's), (118, 46547), (134, 46517), (139, 46508), (160, 46418),

Gene: Iracema64_75 Start: 45911, Stop: 45612, Start Num: 74

Candidate Starts for Iracema64_75:

(Start: 74 @45911 has 115 MA's), (106, 45869),

Gene: IronMan_79 Start: 48100, Stop: 47804, Start Num: 83

Candidate Starts for IronMan_79:

(45, 48175), (Start: 83 @48100 has 1 MA's), (114, 48064),

Gene: Isca_75 Start: 45153, Stop: 44866, Start Num: 121

Candidate Starts for Isca_75:

(105, 45171), (Start: 121 @45153 has 7 MA's), (Start: 123 @45150 has 98 MA's), (160, 45030), (172, 44946),

Gene: Isiphiwo_80 Start: 45575, Stop: 45285, Start Num: 75

Candidate Starts for Isiphiwo_80:

(Start: 75 @45575 has 14 MA's), (Start: 123 @45533 has 98 MA's), (124, 45530), (Start: 127 @45524 has 1 MA's), (128, 45521), (131, 45512), (150, 45455),

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

Candidate Starts for Iwokeuplikedis_86:

(31, 48229), (36, 48193), (40, 48181), (Start: 58 @48121 has 1 MA's), (62, 48115), (Start: 76 @48070 has 2 MA's), (114, 48031), (Start: 127 @48016 has 1 MA's),

Gene: JC27_77 Start: 46703, Stop: 46419, Start Num: 117

Candidate Starts for JC27_77:

(95, 46733), (Start: 117 @46703 has 3 MA's), (124, 46691), (157, 46601), (163, 46550),

Gene: JF2_75 Start: 43846, Stop: 43562, Start Num: 123

Candidate Starts for JF2_75:

(105, 43867), (Start: 121 @43849 has 7 MA's), (Start: 123 @43846 has 98 MA's), (160, 43726), (172, 43642),

Gene: JF4_75 Start: 43846, Stop: 43562, Start Num: 123

Candidate Starts for JF4_75:

(105, 43867), (Start: 121 @43849 has 7 MA's), (Start: 123 @43846 has 98 MA's), (160, 43726), (172, 43642),

Gene: JHC117_75 Start: 45625, Stop: 45362, Start Num: 123

Candidate Starts for JHC117_75:

(Start: 81 @45688 has 34 MA's), (Start: 94 @45670 has 2 MA's), (Start: 123 @45625 has 98 MA's), (131, 45604),

Gene: Jaan_80 Start: 48211, Stop: 47903, Start Num: 74

Candidate Starts for Jaan_80:
(Start: 74 @48211 has 115 MA's), (106, 48169), (140, 48109),

Gene: Jabith_83 Start: 46570, Stop: 46274, Start Num: 111
Candidate Starts for Jabith_83:
(Start: 111 @46570 has 23 MA's), (118, 46561), (134, 46531), (139, 46522), (160, 46432),

Gene: JackSparrow_77 Start: 46543, Stop: 46244, Start Num: 104
Candidate Starts for JackSparrow_77:
(67, 46603), (Start: 104 @46543 has 185 MA's), (131, 46498), (133, 46495), (163, 46375),

Gene: Jasper_75 Start: 45295, Stop: 44996, Start Num: 104
Candidate Starts for Jasper_75:
(67, 45355), (Start: 104 @45295 has 185 MA's), (131, 45250), (133, 45247), (157, 45178), (163, 45127),

Gene: Jaykayelowell_72 Start: 45640, Stop: 45341, Start Num: 74
Candidate Starts for Jaykayelowell_72:
(Start: 74 @45640 has 115 MA's), (106, 45598),

Gene: Jeeves_84 Start: 46095, Stop: 45823, Start Num: 125
Candidate Starts for Jeeves_84:
(52, 46227), (59, 46215), (85, 46152), (Start: 90 @46146 has 3 MA's), (Start: 125 @46095 has 4 MA's), (139, 46065), (142, 46059), (143, 46056), (155, 46011),

Gene: JenCasNa_81 Start: 45630, Stop: 45367, Start Num: 123
Candidate Starts for JenCasNa_81:
(Start: 81 @45693 has 34 MA's), (Start: 94 @45675 has 2 MA's), (Start: 123 @45630 has 98 MA's), (131, 45609),

Gene: JeppNRM_80 Start: 45440, Stop: 45177, Start Num: 123
Candidate Starts for JeppNRM_80:
(Start: 81 @45503 has 34 MA's), (Start: 94 @45485 has 2 MA's), (Start: 123 @45440 has 98 MA's), (147, 45392),

Gene: Jerm_85 Start: 48029, Stop: 47718, Start Num: 81
Candidate Starts for Jerm_85:
(Start: 81 @48029 has 34 MA's), (Start: 84 @48026 has 18 MA's), (130, 47963), (167, 47801),

Gene: Jerm2_78 Start: 48988, Stop: 48689, Start Num: 104
Candidate Starts for Jerm2_78:
(67, 49048), (Start: 104 @48988 has 185 MA's), (131, 48943), (133, 48940), (157, 48871), (163, 48820),

Gene: JetBlade_76 Start: 45675, Stop: 45376, Start Num: 74
Candidate Starts for JetBlade_76:
(Start: 74 @45675 has 115 MA's), (106, 45633),

Gene: Jobu08_76 Start: 45454, Stop: 45191, Start Num: 123
Candidate Starts for Jobu08_76:
(Start: 81 @45517 has 34 MA's), (Start: 94 @45499 has 2 MA's), (Start: 123 @45454 has 98 MA's), (131, 45433),

Gene: JoongJeon_74 Start: 45641, Stop: 45342, Start Num: 74
Candidate Starts for JoongJeon_74:
(Start: 74 @45641 has 115 MA's), (106, 45599),

Gene: Jordennis_81 Start: 45745, Stop: 45497, Start Num: 123
Candidate Starts for Jordennis_81:
(31, 45931), (36, 45901), (54, 45835), (Start: 58 @45829 has 1 MA's), (Start: 75 @45787 has 14 MA's), (Start: 123 @45745 has 98 MA's), (124, 45742), (Start: 127 @45736 has 1 MA's), (128, 45733), (131, 45724), (150, 45667), (154, 45652),

Gene: Jorgensen_83 Start: 48562, Stop: 48278, Start Num: 117
Candidate Starts for Jorgensen_83:
(95, 48592), (Start: 117 @48562 has 3 MA's), (124, 48550), (157, 48460), (163, 48409),

Gene: Joselito_83 Start: 46590, Stop: 46294, Start Num: 111
Candidate Starts for Joselito_83:
(Start: 111 @46590 has 23 MA's), (118, 46581), (Start: 120 @46578 has 21 MA's), (134, 46551), (139, 46542), (160, 46452),

Gene: JoshKayV_85 Start: 48197, Stop: 47886, Start Num: 81
Candidate Starts for JoshKayV_85:
(Start: 81 @48197 has 34 MA's), (Start: 84 @48194 has 18 MA's), (Start: 117 @48152 has 3 MA's), (124, 48146), (167, 47972),

Gene: Jsquared_87 Start: 47057, Stop: 46782, Start Num: 122
Candidate Starts for Jsquared_87:
(29, 47306), (Start: 122 @47057 has 16 MA's), (130, 47036), (135, 47024), (139, 47018),

Gene: JuliaChild_77 Start: 47536, Stop: 47237, Start Num: 104
Candidate Starts for JuliaChild_77:
(Start: 82 @47566 has 1 MA's), (Start: 104 @47536 has 185 MA's), (131, 47491), (133, 47488), (157, 47419), (163, 47368),

Gene: KADY_77 Start: 45657, Stop: 45394, Start Num: 123
Candidate Starts for KADY_77:
(Start: 81 @45720 has 34 MA's), (Start: 94 @45702 has 2 MA's), (Start: 123 @45657 has 98 MA's), (131, 45636),

Gene: KBG_74 Start: 47890, Stop: 47585, Start Num: 100
Candidate Starts for KBG_74:
(Start: 100 @47890 has 2 MA's), (Start: 104 @47884 has 185 MA's), (131, 47839), (133, 47836), (157, 47767), (163, 47716),

Gene: KFPoly_74 Start: 45641, Stop: 45342, Start Num: 74
Candidate Starts for KFPoly_74:
(Start: 74 @45641 has 115 MA's), (106, 45599),

Gene: KSSJEB_73 Start: 45768, Stop: 45469, Start Num: 104
Candidate Starts for KSSJEB_73:
(Start: 104 @45768 has 185 MA's), (131, 45723), (133, 45720), (157, 45651), (163, 45600),

Gene: Kalb97_80 Start: 44807, Stop: 44451, Start Num: 123
Candidate Starts for Kalb97_80:

(Start: 81 @44870 has 34 MA's), (Start: 94 @44852 has 2 MA's), (Start: 123 @44807 has 98 MA's), (131, 44786),

Gene: Kalnoky_80 Start: 45435, Stop: 45172, Start Num: 123

Candidate Starts for Kalnoky_80:

(Start: 81 @45498 has 34 MA's), (Start: 94 @45480 has 2 MA's), (Start: 123 @45435 has 98 MA's), (131, 45414),

Gene: Kalpine_85 Start: 48190, Stop: 47882, Start Num: 91

Candidate Starts for Kalpine_85:

(Start: 91 @48190 has 2 MA's), (Start: 117 @48151 has 3 MA's), (Start: 123 @48148 has 98 MA's),

Gene: Kamy_74 Start: 45650, Stop: 45351, Start Num: 74

Candidate Starts for Kamy_74:

(Start: 74 @45650 has 115 MA's), (106, 45608),

Gene: Kanely_78 Start: 47624, Stop: 47325, Start Num: 104

Candidate Starts for Kanely_78:

(Start: 100 @47630 has 2 MA's), (Start: 104 @47624 has 185 MA's), (131, 47579), (133, 47576), (157, 47507), (163, 47456),

Gene: Katalie136_74 Start: 45708, Stop: 45397, Start Num: 51

Candidate Starts for Katalie136_74:

(Start: 50 @45711 has 2 MA's), (Start: 51 @45708 has 12 MA's), (Start: 63 @45690 has 2 MA's), (64, 45687), (77, 45657), (Start: 123 @45645 has 98 MA's), (140, 45606), (150, 45573),

Gene: Kazan_84 Start: 45560, Stop: 45270, Start Num: 75

Candidate Starts for Kazan_84:

(31, 45704), (36, 45674), (54, 45608), (Start: 58 @45602 has 1 MA's), (Start: 75 @45560 has 14 MA's), (Start: 123 @45518 has 98 MA's), (124, 45515), (Start: 127 @45509 has 1 MA's), (128, 45506), (131, 45497), (150, 45440), (154, 45425),

Gene: Kenmech_78 Start: 47914, Stop: 47615, Start Num: 104

Candidate Starts for Kenmech_78:

(Start: 82 @47944 has 1 MA's), (Start: 104 @47914 has 185 MA's), (131, 47869), (133, 47866), (157, 47797), (163, 47746),

Gene: Kerberos_83 Start: 47197, Stop: 46919, Start Num: 122

Candidate Starts for Kerberos_83:

(Start: 122 @47197 has 16 MA's), (135, 47164), (139, 47158), (165, 47023),

Gene: Keziacharles14_84 Start: 48520, Stop: 48254, Start Num: 122

Candidate Starts for Keziacharles14_84:

(Start: 122 @48520 has 16 MA's), (130, 48505), (139, 48487), (Start: 141 @48484 has 2 MA's), (142, 48481),

Gene: Killigrew_73 Start: 46134, Stop: 45835, Start Num: 104

Candidate Starts for Killigrew_73:

(67, 46194), (Start: 104 @46134 has 185 MA's), (131, 46089), (133, 46086), (153, 46044), (157, 46017), (163, 45966),

Gene: Kimona_76 Start: 44739, Stop: 44437, Start Num: 73

Candidate Starts for Kimona_76:

(45, 44811), (Start: 73 @44739 has 5 MA's),

Gene: KingCyrus_82 Start: 48898, Stop: 48593, Start Num: 81

Candidate Starts for KingCyrus_82:

(Start: 81 @48898 has 34 MA's), (Start: 117 @48859 has 3 MA's), (124, 48853), (166, 48682), (167, 48679),

Gene: Kingmustik0402_75 Start: 45636, Stop: 45337, Start Num: 74

Candidate Starts for Kingmustik0402_75:

(Start: 74 @45636 has 115 MA's), (106, 45594),

Gene: Kipper29_83 Start: 45573, Stop: 45283, Start Num: 75

Candidate Starts for Kipper29_83:

(31, 45717), (36, 45687), (54, 45621), (Start: 58 @45615 has 1 MA's), (Start: 75 @45573 has 14 MA's), (Start: 123 @45531 has 98 MA's), (124, 45528), (Start: 127 @45522 has 1 MA's), (128, 45519), (131, 45510), (150, 45453),

Gene: KittenMittens_78 Start: 47540, Stop: 47253, Start Num: 108

Candidate Starts for KittenMittens_78:

(2, 48347), (3, 48326), (4, 48314), (16, 47900), (24, 47804), (Start: 108 @47540 has 13 MA's), (Start: 123 @47525 has 98 MA's), (133, 47507),

Gene: Koduck_83 Start: 46399, Stop: 46124, Start Num: 122

Candidate Starts for Koduck_83:

(29, 46648), (Start: 122 @46399 has 16 MA's), (133, 46372), (135, 46366), (139, 46360),

Gene: Koko_85 Start: 46331, Stop: 46068, Start Num: 109

Candidate Starts for Koko_85:

(23, 46631), (27, 46574), (28, 46571), (33, 46526), (69, 46403), (Start: 109 @46331 has 18 MA's), (Start: 123 @46319 has 98 MA's), (126, 46313), (140, 46274),

Gene: Koreni_74 Start: 45328, Stop: 45029, Start Num: 74

Candidate Starts for Koreni_74:

(Start: 74 @45328 has 115 MA's), (106, 45286),

Gene: Kratark_74 Start: 45681, Stop: 45382, Start Num: 74

Candidate Starts for Kratark_74:

(Start: 74 @45681 has 115 MA's), (106, 45639),

Gene: Kremtemulon_71 Start: 45795, Stop: 45481, Start Num: 51

Candidate Starts for Kremtemulon_71:

(Start: 50 @45798 has 2 MA's), (Start: 51 @45795 has 12 MA's), (Start: 63 @45777 has 2 MA's), (64, 45774), (Start: 123 @45732 has 98 MA's), (140, 45693),

Gene: Kristoff_81 Start: 48800, Stop: 48519, Start Num: 108

Candidate Starts for Kristoff_81:

(13, 49208), (18, 49112), (Start: 108 @48800 has 13 MA's),

Gene: Kugel_78 Start: 47776, Stop: 47477, Start Num: 104

Candidate Starts for Kugel_78:

(67, 47836), (Start: 104 @47776 has 185 MA's), (131, 47731), (133, 47728), (157, 47659), (163, 47608),

Gene: KyMonks1A_82 Start: 48245, Stop: 47946, Start Num: 104
Candidate Starts for KyMonks1A_82:
(Start: 82 @48275 has 1 MA's), (Start: 104 @48245 has 185 MA's), (131, 48200), (133, 48197), (157, 48128), (163, 48077),

Gene: Kyee_75 Start: 45642, Stop: 45343, Start Num: 74
Candidate Starts for Kyee_75:
(Start: 74 @45642 has 115 MA's), (106, 45600),

Gene: Kykar_76 Start: 46815, Stop: 46522, Start Num: 104
Candidate Starts for Kykar_76:
(67, 46875), (Start: 104 @46815 has 185 MA's), (119, 46794), (157, 46704), (163, 46653),

Gene: L5_76 Start: 46290, Stop: 46015, Start Num: 122
Candidate Starts for L5_76:
(29, 46539), (Start: 122 @46290 has 16 MA's), (133, 46263), (135, 46257), (139, 46251),

Gene: LBerry_81 Start: 45631, Stop: 45368, Start Num: 123
Candidate Starts for LBerry_81:
(Start: 81 @45694 has 34 MA's), (Start: 94 @45676 has 2 MA's), (Start: 123 @45631 has 98 MA's), (131, 45610),

Gene: LHTSCC_77 Start: 46087, Stop: 45785, Start Num: 74
Candidate Starts for LHTSCC_77:
(Start: 74 @46087 has 115 MA's), (106, 46045), (150, 45967),

Gene: LadyBird_87 Start: 48119, Stop: 47796, Start Num: 81
Candidate Starts for LadyBird_87:
(Start: 81 @48119 has 34 MA's), (99, 48098), (124, 48068), (130, 48053),

Gene: Lambert1_79 Start: 46002, Stop: 45721, Start Num: 121
Candidate Starts for Lambert1_79:
(105, 46020), (Start: 121 @46002 has 7 MA's), (Start: 123 @45999 has 98 MA's), (131, 45981),

Gene: Lamina13_80 Start: 49268, Stop: 48969, Start Num: 104
Candidate Starts for Lamina13_80:
(67, 49328), (Start: 104 @49268 has 185 MA's), (131, 49223), (133, 49220), (157, 49151), (163, 49100),

Gene: Landor_80 Start: 48136, Stop: 47828, Start Num: 74
Candidate Starts for Landor_80:
(Start: 74 @48136 has 115 MA's), (106, 48094), (140, 48034),

Gene: LappelDuVide_71 Start: 45647, Stop: 45348, Start Num: 74
Candidate Starts for LappelDuVide_71:
(Start: 74 @45647 has 115 MA's), (106, 45605),

Gene: Larenn_81 Start: 47473, Stop: 47156, Start Num: 81
Candidate Starts for Larenn_81:
(6, 48031), (12, 47863), (22, 47719), (Start: 81 @47473 has 34 MA's), (Start: 88 @47470 has 4 MA's), (Start: 117 @47431 has 3 MA's), (130, 47410), (166, 47245),

Gene: LarryKay_80 Start: 45661, Stop: 45398, Start Num: 123

Candidate Starts for LarryKay_80:

(Start: 81 @45724 has 34 MA's), (Start: 94 @45706 has 2 MA's), (Start: 123 @45661 has 98 MA's), (131, 45640),

Gene: Lemur_75 Start: 45644, Stop: 45345, Start Num: 74

Candidate Starts for Lemur_75:

(Start: 74 @45644 has 115 MA's), (106, 45602),

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

Candidate Starts for LeoAvram_74:

(Start: 55 @45714 has 1 MA's), (Start: 76 @45663 has 2 MA's), (106, 45636),

Gene: Lesedi_73 Start: 45402, Stop: 45103, Start Num: 104

Candidate Starts for Lesedi_73:

(Start: 82 @45432 has 1 MA's), (Start: 104 @45402 has 185 MA's), (131, 45357), (133, 45354), (157, 45285), (163, 45234),

Gene: Leviathan_85 Start: 48110, Stop: 47802, Start Num: 81

Candidate Starts for Leviathan_85:

(Start: 81 @48110 has 34 MA's), (Start: 84 @48107 has 18 MA's), (Start: 117 @48065 has 3 MA's), (124, 48059), (130, 48044), (167, 47885),

Gene: Licorice_77 Start: 48925, Stop: 48626, Start Num: 104

Candidate Starts for Licorice_77:

(Start: 100 @48931 has 2 MA's), (Start: 104 @48925 has 185 MA's), (131, 48880), (133, 48877), (157, 48808), (163, 48757),

Gene: LilBib_73 Start: 47156, Stop: 46857, Start Num: 104

Candidate Starts for LilBib_73:

(Start: 104 @47156 has 185 MA's), (131, 47111), (133, 47108), (157, 47039), (163, 46988),

Gene: LilTurb_84 Start: 47906, Stop: 47598, Start Num: 81

Candidate Starts for LilTurb_84:

(Start: 81 @47906 has 34 MA's), (Start: 84 @47903 has 18 MA's), (130, 47840), (167, 47681),

Gene: Lilbunny_81 Start: 45561, Stop: 45310, Start Num: 123

Candidate Starts for Lilbunny_81:

(23, 45873), (27, 45816), (28, 45813), (33, 45768), (69, 45645), (Start: 109 @45573 has 18 MA's), (Start: 123 @45561 has 98 MA's), (126, 45555), (140, 45516),

Gene: Lilit_78 Start: 45620, Stop: 45357, Start Num: 123

Candidate Starts for Lilit_78:

(Start: 81 @45683 has 34 MA's), (Start: 94 @45665 has 2 MA's), (Start: 123 @45620 has 98 MA's),

Gene: LittleB_75 Start: 45648, Stop: 45349, Start Num: 74

Candidate Starts for LittleB_75:

(Start: 74 @45648 has 115 MA's), (106, 45606),

Gene: LittleGuy_75 Start: 45532, Stop: 45233, Start Num: 74

Candidate Starts for LittleGuy_75:

(Start: 74 @45532 has 115 MA's), (106, 45490),

Gene: LochMonster_76 Start: 45884, Stop: 45585, Start Num: 74

Candidate Starts for LochMonster_76:
(Start: 74 @45884 has 115 MA's), (106, 45842),

Gene: Lockley_73 Start: 46285, Stop: 45986, Start Num: 104
Candidate Starts for Lockley_73:
(Start: 82 @46315 has 1 MA's), (Start: 104 @46285 has 185 MA's), (131, 46240), (133, 46237), (157, 46168), (163, 46117),

Gene: Loka_78 Start: 45975, Stop: 45661, Start Num: 72
Candidate Starts for Loka_78:
(Start: 72 @45975 has 5 MA's), (96, 45948), (102, 45939), (151, 45852),

Gene: LoneWolf_87 Start: 48048, Stop: 47776, Start Num: 120
Candidate Starts for LoneWolf_87:
(Start: 120 @48048 has 21 MA's), (Start: 129 @48030 has 17 MA's), (139, 48009), (Start: 141 @48006 has 2 MA's),

Gene: Lopton_75 Start: 48247, Stop: 47948, Start Num: 104
Candidate Starts for Lopton_75:
(Start: 82 @48277 has 1 MA's), (Start: 104 @48247 has 185 MA's), (131, 48202), (133, 48199), (157, 48130), (163, 48079),

Gene: Lorenzo_75 Start: 45645, Stop: 45346, Start Num: 74
Candidate Starts for Lorenzo_75:
(Start: 74 @45645 has 115 MA's),

Gene: Loser_86 Start: 48364, Stop: 48065, Start Num: 88
Candidate Starts for Loser_86:
(Start: 88 @48364 has 4 MA's), (97, 48352), (99, 48349), (101, 48346), (Start: 117 @48325 has 3 MA's), (130, 48304),

Gene: Louie6_79 Start: 45658, Stop: 45395, Start Num: 123
Candidate Starts for Louie6_79:
(Start: 81 @45721 has 34 MA's), (Start: 94 @45703 has 2 MA's), (Start: 123 @45658 has 98 MA's), (131, 45637),

Gene: Luchador_82 Start: 47356, Stop: 47087, Start Num: 125
Candidate Starts for Luchador_82:
(52, 47488), (59, 47476), (85, 47413), (Start: 125 @47356 has 4 MA's), (139, 47326), (142, 47320), (155, 47272),

Gene: Lucivia_85 Start: 46869, Stop: 46573, Start Num: 111
Candidate Starts for Lucivia_85:
(Start: 111 @46869 has 23 MA's), (118, 46860), (Start: 120 @46857 has 21 MA's), (134, 46830), (139, 46821), (160, 46731),

Gene: Lucyedi_82 Start: 47034, Stop: 46771, Start Num: 120
Candidate Starts for Lucyedi_82:
(9, 47598), (29, 47280), (Start: 120 @47034 has 21 MA's), (142, 46998), (143, 46995),

Gene: LugYA_83 Start: 45631, Stop: 45368, Start Num: 123
Candidate Starts for LugYA_83:

(Start: 81 @45694 has 34 MA's), (Start: 94 @45676 has 2 MA's), (Start: 123 @45631 has 98 MA's), (131, 45610),

Gene: Lunsford_75 Start: 45640, Stop: 45341, Start Num: 74
Candidate Starts for Lunsford_75:
(Start: 74 @45640 has 115 MA's), (106, 45598),

Gene: MA5_77 Start: 45054, Stop: 44770, Start Num: 123
Candidate Starts for MA5_77:
(Start: 123 @45054 has 98 MA's), (172, 44850),

Gene: MK4_72 Start: 43576, Stop: 43289, Start Num: 121
Candidate Starts for MK4_72:
(105, 43594), (Start: 121 @43576 has 7 MA's), (Start: 123 @43573 has 98 MA's), (160, 43453), (172, 43369),

Gene: MPlant7149_76 Start: 46801, Stop: 46502, Start Num: 104
Candidate Starts for MPlant7149_76:
(Start: 82 @46831 has 1 MA's), (Start: 104 @46801 has 185 MA's), (131, 46756), (133, 46753), (157, 46684), (163, 46633),

Gene: MaCh_84 Start: 46833, Stop: 46537, Start Num: 111
Candidate Starts for MaCh_84:
(Start: 111 @46833 has 23 MA's), (118, 46824), (Start: 120 @46821 has 21 MA's), (134, 46794), (139, 46785), (160, 46695),

Gene: Mabel_84 Start: 46834, Stop: 46538, Start Num: 111
Candidate Starts for Mabel_84:
(Start: 111 @46834 has 23 MA's), (118, 46825), (Start: 120 @46822 has 21 MA's), (134, 46795), (139, 46786), (160, 46696),

Gene: MadMarie_78 Start: 45628, Stop: 45365, Start Num: 123
Candidate Starts for MadMarie_78:
(Start: 81 @45691 has 34 MA's), (Start: 94 @45673 has 2 MA's), (Start: 123 @45628 has 98 MA's), (131, 45607),

Gene: Magnar_72 Start: 45929, Stop: 45630, Start Num: 104
Candidate Starts for Magnar_72:
(Start: 82 @45959 has 1 MA's), (Start: 104 @45929 has 185 MA's), (131, 45884), (133, 45881), (157, 45812), (163, 45761),

Gene: Magnito_75 Start: 46242, Stop: 45943, Start Num: 104
Candidate Starts for Magnito_75:
(Start: 104 @46242 has 185 MA's), (131, 46197), (133, 46194), (157, 46125), (163, 46074),

Gene: Mainiac_79 Start: 45620, Stop: 45357, Start Num: 123
Candidate Starts for Mainiac_79:
(Start: 81 @45683 has 34 MA's), (Start: 94 @45665 has 2 MA's), (Start: 123 @45620 has 98 MA's),

Gene: Makemake_79 Start: 47852, Stop: 47553, Start Num: 104
Candidate Starts for Makemake_79:
(Start: 82 @47882 has 1 MA's), (Start: 104 @47852 has 185 MA's), (131, 47807), (133, 47804), (157, 47735), (163, 47684),

Gene: Malec_82 Start: 48043, Stop: 47726, Start Num: 81

Candidate Starts for Malec_82:

(Start: 81 @48043 has 34 MA's), (Start: 88 @48040 has 4 MA's), (Start: 117 @48001 has 3 MA's),
(130, 47980), (166, 47815),

Gene: Malinsilva_83 Start: 45619, Stop: 45356, Start Num: 123

Candidate Starts for Malinsilva_83:

(Start: 81 @45682 has 34 MA's), (Start: 94 @45664 has 2 MA's), (Start: 123 @45619 has 98 MA's),

Gene: Maminiaina_86 Start: 47971, Stop: 47693, Start Num: 120

Candidate Starts for Maminiaina_86:

(Start: 120 @47971 has 21 MA's), (139, 47932),

Gene: Manatee_74 Start: 45782, Stop: 45483, Start Num: 104

Candidate Starts for Manatee_74:

(Start: 82 @45812 has 1 MA's), (Start: 104 @45782 has 185 MA's), (131, 45737), (133, 45734), (157,
45665),

Gene: Manu_79 Start: 45442, Stop: 45179, Start Num: 123

Candidate Starts for Manu_79:

(Start: 81 @45505 has 34 MA's), (Start: 94 @45487 has 2 MA's), (Start: 123 @45442 has 98 MA's),
(131, 45421),

Gene: MarQuardt_80 Start: 45629, Stop: 45366, Start Num: 123

Candidate Starts for MarQuardt_80:

(Start: 81 @45692 has 34 MA's), (Start: 94 @45674 has 2 MA's), (Start: 123 @45629 has 98 MA's),
(131, 45608),

Gene: Marcell_69 Start: 44549, Stop: 44250, Start Num: 104

Candidate Starts for Marcell_69:

(67, 44609), (Start: 104 @44549 has 185 MA's), (131, 44504), (133, 44501), (157, 44432), (163,
44381),

Gene: Marchy_65 Start: 43353, Stop: 43054, Start Num: 104

Candidate Starts for Marchy_65:

(67, 43413), (Start: 104 @43353 has 185 MA's), (131, 43308), (133, 43305), (157, 43236), (163,
43185),

Gene: Marge_73 Start: 46046, Stop: 45747, Start Num: 104

Candidate Starts for Marge_73:

(67, 46106), (Start: 104 @46046 has 185 MA's), (131, 46001), (133, 45998), (157, 45929), (158,
45917), (163, 45878),

Gene: Margo_79 Start: 46027, Stop: 45746, Start Num: 121

Candidate Starts for Margo_79:

(105, 46045), (Start: 121 @46027 has 7 MA's), (Start: 123 @46024 has 98 MA's),

Gene: Marie_78 Start: 45630, Stop: 45367, Start Num: 123

Candidate Starts for Marie_78:

(Start: 81 @45693 has 34 MA's), (Start: 94 @45675 has 2 MA's), (Start: 123 @45630 has 98 MA's),
(131, 45609),

Gene: Marius_80 Start: 45435, Stop: 45172, Start Num: 123
Candidate Starts for Marius_80:
(Start: 81 @45498 has 34 MA's), (Start: 94 @45480 has 2 MA's), (Start: 123 @45435 has 98 MA's),
(131, 45414),

Gene: Maroc7_78 Start: 48845, Stop: 48546, Start Num: 104
Candidate Starts for Maroc7_78:
(67, 48905), (Start: 104 @48845 has 185 MA's), (131, 48800), (133, 48797), (157, 48728), (163,
48677),

Gene: Marsha_76 Start: 48488, Stop: 48189, Start Num: 104
Candidate Starts for Marsha_76:
(Start: 104 @48488 has 185 MA's), (131, 48443), (133, 48440), (157, 48371), (163, 48320),

Gene: MaryBeth_74 Start: 47072, Stop: 46773, Start Num: 104
Candidate Starts for MaryBeth_74:
(Start: 82 @47102 has 1 MA's), (Start: 104 @47072 has 185 MA's), (131, 47027), (133, 47024), (157,
46955), (163, 46904),

Gene: MarysWell_70 Start: 44501, Stop: 44202, Start Num: 110
Candidate Starts for MarysWell_70:
(103, 44513), (Start: 110 @44501 has 7 MA's), (Start: 115 @44495 has 1 MA's), (165, 44318),

Gene: Maverick_74 Start: 45644, Stop: 45345, Start Num: 74
Candidate Starts for Maverick_74:
(Start: 74 @45644 has 115 MA's), (106, 45602),

Gene: Maxo_77 Start: 45650, Stop: 45351, Start Num: 74
Candidate Starts for Maxo_77:
(Start: 74 @45650 has 115 MA's), (106, 45608),

Gene: Mazhar510_75 Start: 45645, Stop: 45346, Start Num: 74
Candidate Starts for Mazhar510_75:
(Start: 74 @45645 has 115 MA's), (106, 45603),

Gene: McFly_83 Start: 45909, Stop: 45619, Start Num: 75
Candidate Starts for McFly_83:
(31, 46053), (36, 46023), (54, 45957), (Start: 58 @45951 has 1 MA's), (Start: 75 @45909 has 14
MA's), (Start: 123 @45867 has 98 MA's), (124, 45864), (Start: 127 @45858 has 1 MA's), (128, 45855),
(131, 45846), (150, 45789),

Gene: McGuire_76 Start: 46085, Stop: 45786, Start Num: 104
Candidate Starts for McGuire_76:
(67, 46145), (Start: 104 @46085 has 185 MA's), (131, 46040), (133, 46037), (157, 45968), (163,
45917),

Gene: Medusa_74 Start: 45660, Stop: 45361, Start Num: 74
Candidate Starts for Medusa_74:
(Start: 74 @45660 has 115 MA's), (106, 45618),

Gene: MeeZee_74 Start: 45641, Stop: 45342, Start Num: 74
Candidate Starts for MeeZee_74:
(Start: 74 @45641 has 115 MA's), (106, 45599),

Gene: Melvin_77 Start: 45642, Stop: 45343, Start Num: 74

Candidate Starts for Melvin_77:

(Start: 74 @45642 has 115 MA's), (106, 45600),

Gene: MetalQZJ_73 Start: 47072, Stop: 46773, Start Num: 104

Candidate Starts for MetalQZJ_73:

(Start: 82 @47102 has 1 MA's), (Start: 104 @47072 has 185 MA's), (131, 47027), (133, 47024), (157, 46955), (163, 46904),

Gene: Methuselah_73 Start: 45651, Stop: 45388, Start Num: 123

Candidate Starts for Methuselah_73:

(Start: 81 @45714 has 34 MA's), (Start: 94 @45696 has 2 MA's), (Start: 123 @45651 has 98 MA's), (131, 45630),

Gene: Micasa_68 Start: 44223, Stop: 43924, Start Num: 110

Candidate Starts for Micasa_68:

(103, 44235), (Start: 110 @44223 has 7 MA's), (Start: 115 @44217 has 1 MA's), (133, 44181), (139, 44169), (160, 44079), (165, 44040),

Gene: Microwolf_76 Start: 45643, Stop: 45380, Start Num: 123

Candidate Starts for Microwolf_76:

(Start: 81 @45706 has 34 MA's), (Start: 94 @45688 has 2 MA's), (Start: 123 @45643 has 98 MA's),

Gene: MiculUcigas_83 Start: 47170, Stop: 46859, Start Num: 81

Candidate Starts for MiculUcigas_83:

(Start: 81 @47170 has 34 MA's), (95, 47158), (99, 47152), (Start: 117 @47128 has 3 MA's), (124, 47122), (130, 47107),

Gene: Midas2_67 Start: 44122, Stop: 43820, Start Num: 107

Candidate Starts for Midas2_67:

(Start: 107 @44122 has 3 MA's), (135, 44071), (137, 44068), (162, 43960), (165, 43936),

Gene: Miko_78 Start: 46737, Stop: 46423, Start Num: 72

Candidate Starts for Miko_78:

(Start: 72 @46737 has 5 MA's), (96, 46710), (102, 46701),

Gene: Milcery_70 Start: 44007, Stop: 43711, Start Num: 113

Candidate Starts for Milcery_70:

(Start: 113 @44007 has 1 MA's), (Start: 125 @43986 has 4 MA's), (128, 43980), (160, 43866), (162, 43851), (165, 43827),

Gene: Millski_74 Start: 45648, Stop: 45349, Start Num: 74

Candidate Starts for Millski_74:

(Start: 74 @45648 has 115 MA's), (106, 45606),

Gene: Miramae_74 Start: 45242, Stop: 44946, Start Num: 73

Candidate Starts for Miramae_74:

(Start: 73 @45242 has 5 MA's), (Start: 104 @45221 has 185 MA's), (Start: 123 @45203 has 98 MA's), (149, 45134),

Gene: MissWhite_76 Start: 44037, Stop: 43771, Start Num: 120

Candidate Starts for MissWhite_76:

(8, 44595), (29, 44283), (Start: 120 @44037 has 21 MA's), (130, 44019), (139, 44001), (151, 43965), (165, 43869),

Gene: Molly_76 Start: 46458, Stop: 46159, Start Num: 104

Candidate Starts for Molly_76:

(Start: 82 @46488 has 1 MA's), (Start: 104 @46458 has 185 MA's), (131, 46413), (133, 46410), (157, 46341), (163, 46290),

Gene: Monet_80 Start: 48495, Stop: 48196, Start Num: 104

Candidate Starts for Monet_80:

(67, 48555), (Start: 104 @48495 has 185 MA's), (131, 48450), (133, 48447), (157, 48378), (163, 48327),

Gene: MoneyMay_80 Start: 45630, Stop: 45367, Start Num: 123

Candidate Starts for MoneyMay_80:

(Start: 81 @45693 has 34 MA's), (Start: 94 @45675 has 2 MA's), (Start: 123 @45630 has 98 MA's), (131, 45609),

Gene: Moose_78 Start: 47631, Stop: 47332, Start Num: 104

Candidate Starts for Moose_78:

(Start: 82 @47661 has 1 MA's), (Start: 104 @47631 has 185 MA's), (131, 47586), (133, 47583), (157, 47514), (163, 47463),

Gene: Morpher26_74 Start: 45732, Stop: 45418, Start Num: 50

Candidate Starts for Morpher26_74:

(Start: 50 @45732 has 2 MA's), (Start: 51 @45729 has 12 MA's), (Start: 63 @45711 has 2 MA's), (64, 45708), (77, 45678), (Start: 123 @45666 has 98 MA's), (140, 45627), (150, 45594),

Gene: Morrow_77 Start: 45687, Stop: 45388, Start Num: 74

Candidate Starts for Morrow_77:

(Start: 74 @45687 has 115 MA's), (106, 45645),

Gene: MrGordo_77 Start: 46387, Stop: 46088, Start Num: 104

Candidate Starts for MrGordo_77:

(92, 46405), (Start: 104 @46387 has 185 MA's), (131, 46342), (133, 46339), (157, 46270), (163, 46219),

Gene: Mryolo_71 Start: 45416, Stop: 45117, Start Num: 104

Candidate Starts for Mryolo_71:

(Start: 82 @45446 has 1 MA's), (Start: 104 @45416 has 185 MA's), (131, 45371), (133, 45368), (157, 45299), (163, 45248),

Gene: MuchMore_83 Start: 45616, Stop: 45353, Start Num: 123

Candidate Starts for MuchMore_83:

(Start: 81 @45679 has 34 MA's), (Start: 94 @45661 has 2 MA's), (Start: 123 @45616 has 98 MA's),

Gene: Mulciber_82 Start: 46375, Stop: 46079, Start Num: 111

Candidate Starts for Mulciber_82:

(Start: 111 @46375 has 23 MA's), (118, 46366), (134, 46336), (139, 46327), (160, 46237),

Gene: Mule_75 Start: 46498, Stop: 46199, Start Num: 104

Candidate Starts for Mule_75:

(Start: 82 @46528 has 1 MA's), (Start: 104 @46498 has 185 MA's), (131, 46453), (133, 46450), (157, 46381), (163, 46330),

Gene: Munch_84 Start: 46838, Stop: 46542, Start Num: 111

Candidate Starts for Munch_84:

(Start: 111 @46838 has 23 MA's), (118, 46829), (Start: 120 @46826 has 21 MA's), (134, 46799), (139, 46790), (160, 46700),

Gene: Mundrea_74 Start: 45707, Stop: 45417, Start Num: 73

Candidate Starts for Mundrea_74:

(Start: 73 @45707 has 5 MA's), (Start: 104 @45686 has 185 MA's), (Start: 123 @45668 has 98 MA's), (Start: 127 @45659 has 1 MA's), (150, 45596),

Gene: Museum_76 Start: 47521, Stop: 47222, Start Num: 104

Candidate Starts for Museum_76:

(Start: 82 @47551 has 1 MA's), (Start: 104 @47521 has 185 MA's), (131, 47476), (133, 47473), (157, 47404), (163, 47353),

Gene: MyraDee_79 Start: 44293, Stop: 44003, Start Num: 116

Candidate Starts for MyraDee_79:

(Start: 116 @44293 has 4 MA's), (136, 44254),

Gene: Myxus_87 Start: 48032, Stop: 47766, Start Num: 129

Candidate Starts for Myxus_87:

(Start: 120 @48050 has 21 MA's), (Start: 129 @48032 has 17 MA's), (139, 48011), (160, 47915),

Gene: NEHalo_72 Start: 46331, Stop: 46032, Start Num: 104

Candidate Starts for NEHalo_72:

(Start: 82 @46361 has 1 MA's), (Start: 104 @46331 has 185 MA's), (131, 46286), (133, 46283), (157, 46214), (163, 46163),

Gene: NaSiaTalie_84 Start: 47457, Stop: 47146, Start Num: 81

Candidate Starts for NaSiaTalie_84:

(Start: 81 @47457 has 34 MA's), (95, 47445), (Start: 117 @47415 has 3 MA's), (124, 47409), (130, 47394),

Gene: Naca_73 Start: 45403, Stop: 45119, Start Num: 120

Candidate Starts for Naca_73:

(Start: 111 @45415 has 23 MA's), (Start: 120 @45403 has 21 MA's), (131, 45376), (160, 45271), (163, 45247),

Gene: Naira_78 Start: 48004, Stop: 47705, Start Num: 104

Candidate Starts for Naira_78:

(67, 48064), (Start: 104 @48004 has 185 MA's), (131, 47959), (133, 47956), (157, 47887), (163, 47836),

Gene: Nebs_76 Start: 45687, Stop: 45388, Start Num: 74

Candidate Starts for Nebs_76:

(Start: 74 @45687 has 115 MA's), (106, 45645),

Gene: Neeharika16_81 Start: 45701, Stop: 45369, Start Num: 58

Candidate Starts for Neeharika16_81:

(31, 45803), (36, 45773), (54, 45707), (Start: 58 @45701 has 1 MA's), (Start: 75 @45659 has 14 MA's), (Start: 123 @45617 has 98 MA's), (124, 45614), (Start: 127 @45608 has 1 MA's), (128, 45605), (131, 45596), (150, 45539),

Gene: Nemo27_74 Start: 45643, Stop: 45344, Start Num: 74
Candidate Starts for Nemo27_74:
(Start: 74 @45643 has 115 MA's), (106, 45601),

Gene: Nerujay_80 Start: 48773, Stop: 48474, Start Num: 104
Candidate Starts for Nerujay_80:
(30, 48980), (32, 48953), (42, 48911), (43, 48908), (49, 48881), (53, 48869), (Start: 58 @48860 has 1 MA's), (64, 48845), (70, 48830), (92, 48791), (Start: 104 @48773 has 185 MA's), (131, 48728), (133, 48725), (157, 48656), (163, 48605),

Gene: Newrala_82 Start: 45995, Stop: 45705, Start Num: 75
Candidate Starts for Newrala_82:
(31, 46139), (36, 46109), (54, 46043), (Start: 58 @46037 has 1 MA's), (Start: 75 @45995 has 14 MA's), (Start: 123 @45953 has 98 MA's), (124, 45950), (Start: 127 @45944 has 1 MA's), (128, 45941), (131, 45932), (150, 45875),

Gene: Nhonho_72 Start: 46492, Stop: 46193, Start Num: 104
Candidate Starts for Nhonho_72:
(98, 46501), (Start: 104 @46492 has 185 MA's), (131, 46447), (133, 46444), (157, 46375), (163, 46324),

Gene: NicoleTera_81 Start: 47391, Stop: 47083, Start Num: 81
Candidate Starts for NicoleTera_81:
(Start: 81 @47391 has 34 MA's), (Start: 117 @47352 has 3 MA's), (130, 47331),

Gene: Niza_76 Start: 47804, Stop: 47505, Start Num: 104
Candidate Starts for Niza_76:
(Start: 82 @47834 has 1 MA's), (Start: 104 @47804 has 185 MA's), (131, 47759), (133, 47756), (157, 47687), (163, 47636),

Gene: Noella_80 Start: 46000, Stop: 45722, Start Num: 123
Candidate Starts for Noella_80:
(105, 46021), (Start: 121 @46003 has 7 MA's), (Start: 123 @46000 has 98 MA's),

Gene: Noelle_75 Start: 46056, Stop: 45739, Start Num: 51
Candidate Starts for Noelle_75:
(Start: 50 @46059 has 2 MA's), (Start: 51 @46056 has 12 MA's), (Start: 63 @46038 has 2 MA's), (64, 46035), (Start: 123 @45990 has 98 MA's), (140, 45951), (150, 45918),

Gene: Norbert_75 Start: 46000, Stop: 45719, Start Num: 121
Candidate Starts for Norbert_75:
(105, 46018), (Start: 121 @46000 has 7 MA's), (Start: 123 @45997 has 98 MA's),

Gene: NorthStar_72 Start: 45647, Stop: 45348, Start Num: 74
Candidate Starts for NorthStar_72:
(Start: 74 @45647 has 115 MA's), (106, 45605),

Gene: Norz_72 Start: 47994, Stop: 47695, Start Num: 104
Candidate Starts for Norz_72:

(67, 48054), (Start: 104 @47994 has 185 MA's), (131, 47949), (133, 47946), (157, 47877), (163, 47826),

Gene: NotAPhaseMom_74 Start: 45648, Stop: 45349, Start Num: 74
Candidate Starts for NotAPhaseMom_74:
(Start: 74 @45648 has 115 MA's), (106, 45606),

Gene: NothingSpecial_78 Start: 47348, Stop: 47028, Start Num: 79
Candidate Starts for NothingSpecial_78:
(1, 48203), (7, 47891), (19, 47591), (Start: 79 @47348 has 2 MA's), (Start: 90 @47333 has 3 MA's),
(102, 47315), (114, 47300), (126, 47288), (168, 47120),

Gene: Nyxis_74 Start: 45526, Stop: 45227, Start Num: 74
Candidate Starts for Nyxis_74:
(Start: 74 @45526 has 115 MA's), (106, 45484),

Gene: OKCentral2016_82 Start: 47617, Stop: 47324, Start Num: 108
Candidate Starts for OKCentral2016_82:
(16, 47977), (24, 47881), (Start: 108 @47617 has 13 MA's), (Start: 141 @47563 has 2 MA's),

Gene: OKaNui_74 Start: 45697, Stop: 45398, Start Num: 74
Candidate Starts for OKaNui_74:
(Start: 74 @45697 has 115 MA's), (106, 45655),

Gene: Obama12_76 Start: 46071, Stop: 45769, Start Num: 74
Candidate Starts for Obama12_76:
(Start: 74 @46071 has 115 MA's), (106, 46029), (150, 45951),

Gene: Ohfah_76 Start: 45687, Stop: 45388, Start Num: 74
Candidate Starts for Ohfah_76:
(Start: 74 @45687 has 115 MA's), (106, 45645),

Gene: Ohno789_79 Start: 48554, Stop: 48255, Start Num: 104
Candidate Starts for Ohno789_79:
(Start: 82 @48584 has 1 MA's), (Start: 104 @48554 has 185 MA's), (131, 48509), (133, 48506), (157, 48437), (163, 48386),

Gene: OlanP_78 Start: 45614, Stop: 45351, Start Num: 123
Candidate Starts for OlanP_78:
(Start: 81 @45677 has 34 MA's), (Start: 94 @45659 has 2 MA's), (Start: 123 @45614 has 98 MA's),
(131, 45593),

Gene: Ollie_80 Start: 45498, Stop: 45235, Start Num: 123
Candidate Starts for Ollie_80:
(Start: 81 @45561 has 34 MA's), (Start: 94 @45543 has 2 MA's), (Start: 123 @45498 has 98 MA's),
(131, 45477),

Gene: Oogway_75 Start: 47385, Stop: 47086, Start Num: 104
Candidate Starts for Oogway_75:
(67, 47445), (Start: 104 @47385 has 185 MA's), (131, 47340), (133, 47337), (157, 47268), (163, 47217),

Gene: Orange_84 Start: 46388, Stop: 46092, Start Num: 111

Candidate Starts for Orange_84:

(Start: 111 @46388 has 23 MA's), (118, 46379), (Start: 120 @46376 has 21 MA's), (134, 46349), (139, 46340), (160, 46250),

Gene: P28Green_80 Start: 45633, Stop: 45370, Start Num: 123

Candidate Starts for P28Green_80:

(Start: 81 @45696 has 34 MA's), (Start: 94 @45678 has 2 MA's), (Start: 123 @45633 has 98 MA's), (131, 45612),

Gene: PGHhamlin_82 Start: 45619, Stop: 45356, Start Num: 123

Candidate Starts for PGHhamlin_82:

(Start: 81 @45682 has 34 MA's), (Start: 94 @45664 has 2 MA's), (Start: 123 @45619 has 98 MA's),

Gene: PP_76 Start: 49639, Stop: 49325, Start Num: 71

Candidate Starts for PP_76:

(57, 49672), (Start: 71 @49639 has 1 MA's), (Start: 73 @49633 has 5 MA's), (93, 49600), (106, 49576), (124, 49558), (Start: 129 @49546 has 17 MA's),

Gene: PSullivan_72 Start: 45604, Stop: 45305, Start Num: 104

Candidate Starts for PSullivan_72:

(Start: 82 @45634 has 1 MA's), (Start: 104 @45604 has 185 MA's), (131, 45559), (133, 45556), (157, 45487), (163, 45436),

Gene: PacerPaul_81 Start: 48867, Stop: 48568, Start Num: 104

Candidate Starts for PacerPaul_81:

(67, 48927), (Start: 104 @48867 has 185 MA's), (131, 48822), (133, 48819), (157, 48750), (163, 48699),

Gene: PainterBoy_82 Start: 46744, Stop: 46481, Start Num: 120

Candidate Starts for PainterBoy_82:

(9, 47308), (29, 46990), (Start: 120 @46744 has 21 MA's), (142, 46708), (143, 46705),

Gene: Palestino_74 Start: 45644, Stop: 45345, Start Num: 74

Candidate Starts for Palestino_74:

(Start: 74 @45644 has 115 MA's), (106, 45602),

Gene: Panamaxus_76 Start: 45999, Stop: 45721, Start Num: 123

Candidate Starts for Panamaxus_76:

(105, 46020), (Start: 121 @46002 has 7 MA's), (Start: 123 @45999 has 98 MA's), (131, 45981),

Gene: Papez_78 Start: 47995, Stop: 47696, Start Num: 104

Candidate Starts for Papez_78:

(67, 48055), (Start: 104 @47995 has 185 MA's), (131, 47950), (133, 47947), (157, 47878), (163, 47827),

Gene: Paphu_71 Start: 46029, Stop: 45730, Start Num: 104

Candidate Starts for Paphu_71:

(Start: 82 @46059 has 1 MA's), (Start: 104 @46029 has 185 MA's), (131, 45984), (133, 45981), (157, 45912), (163, 45861),

Gene: Paraselene_74 Start: 46678, Stop: 46379, Start Num: 104

Candidate Starts for Paraselene_74:

(67, 46738), (Start: 104 @46678 has 185 MA's), (131, 46633), (133, 46630), (157, 46561), (163, 46510),

Gene: Pari_81 Start: 47398, Stop: 47099, Start Num: 104

Candidate Starts for Pari_81:

(Start: 82 @47428 has 1 MA's), (Start: 104 @47398 has 185 MA's), (131, 47353), (133, 47350), (157, 47281), (163, 47230),

Gene: Parliament_77 Start: 49579, Stop: 49280, Start Num: 104

Candidate Starts for Parliament_77:

(Start: 82 @49609 has 1 MA's), (Start: 104 @49579 has 185 MA's), (131, 49534), (133, 49531), (157, 49462), (163, 49411),

Gene: PascalRango_74 Start: 46673, Stop: 46374, Start Num: 104

Candidate Starts for PascalRango_74:

(Start: 82 @46703 has 1 MA's), (Start: 104 @46673 has 185 MA's), (131, 46628), (133, 46625), (157, 46556), (163, 46505),

Gene: PattyP_76 Start: 47227, Stop: 46928, Start Num: 104

Candidate Starts for PattyP_76:

(Start: 82 @47257 has 1 MA's), (Start: 104 @47227 has 185 MA's), (131, 47182), (133, 47179), (157, 47110), (163, 47059),

Gene: Pawn_78 Start: 45442, Stop: 45179, Start Num: 123

Candidate Starts for Pawn_78:

(Start: 81 @45505 has 34 MA's), (Start: 94 @45487 has 2 MA's), (Start: 123 @45442 has 98 MA's), (131, 45421),

Gene: PeaceMeal1_80 Start: 47544, Stop: 47254, Start Num: 108

Candidate Starts for PeaceMeal1_80:

(2, 48351), (3, 48330), (4, 48318), (16, 47904), (24, 47808), (Start: 108 @47544 has 13 MA's), (Start: 123 @47529 has 98 MA's), (133, 47511),

Gene: Peaches_73 Start: 45646, Stop: 45347, Start Num: 74

Candidate Starts for Peaches_73:

(Start: 74 @45646 has 115 MA's), (106, 45604),

Gene: Pelly_77 Start: 49760, Stop: 49461, Start Num: 104

Candidate Starts for Pelly_77:

(Start: 82 @49790 has 1 MA's), (Start: 104 @49760 has 185 MA's), (131, 49715), (133, 49712), (157, 49643), (163, 49592),

Gene: Pembroke_80 Start: 45628, Stop: 45365, Start Num: 123

Candidate Starts for Pembroke_80:

(Start: 81 @45691 has 34 MA's), (Start: 94 @45673 has 2 MA's), (Start: 123 @45628 has 98 MA's),

Gene: Penny1_80 Start: 45631, Stop: 45368, Start Num: 123

Candidate Starts for Penny1_80:

(Start: 81 @45694 has 34 MA's), (Start: 94 @45676 has 2 MA's), (Start: 123 @45631 has 98 MA's), (131, 45610),

Gene: Pepe_70 Start: 44682, Stop: 44383, Start Num: 104

Candidate Starts for Pepe_70:

(67, 44742), (Start: 104 @44682 has 185 MA's), (131, 44637), (133, 44634), (157, 44565), (163, 44514),

Gene: Perplexer_74 Start: 45711, Stop: 45394, Start Num: 51

Candidate Starts for Perplexer_74:

(Start: 50 @45714 has 2 MA's), (Start: 51 @45711 has 12 MA's), (61, 45696), (77, 45660), (Start: 123 @45645 has 98 MA's), (140, 45606), (150, 45573),

Gene: Perseus_76 Start: 48660, Stop: 48361, Start Num: 104

Candidate Starts for Perseus_76:

(Start: 82 @48690 has 1 MA's), (Start: 104 @48660 has 185 MA's), (131, 48615), (133, 48612), (157, 48543), (163, 48492),

Gene: PeterPeter_75 Start: 45641, Stop: 45342, Start Num: 74

Candidate Starts for PeterPeter_75:

(Start: 74 @45641 has 115 MA's), (106, 45599),

Gene: Petersenfast_78 Start: 45269, Stop: 44973, Start Num: 111

Candidate Starts for Petersenfast_78:

(Start: 111 @45269 has 23 MA's), (118, 45260), (Start: 120 @45257 has 21 MA's), (134, 45230), (139, 45221), (160, 45131),

Gene: Peterson_75 Start: 47826, Stop: 47527, Start Num: 104

Candidate Starts for Peterson_75:

(67, 47886), (Start: 104 @47826 has 185 MA's), (131, 47781), (133, 47778), (157, 47709), (163, 47658),

Gene: PetiteSangsue_74 Start: 45714, Stop: 45397, Start Num: 51

Candidate Starts for PetiteSangsue_74:

(Start: 50 @45717 has 2 MA's), (Start: 51 @45714 has 12 MA's), (61, 45699), (77, 45663), (Start: 123 @45648 has 98 MA's), (140, 45609), (150, 45576),

Gene: Petp2012_77 Start: 48008, Stop: 47709, Start Num: 104

Candidate Starts for Petp2012_77:

(67, 48068), (Start: 104 @48008 has 185 MA's), (131, 47963), (133, 47960), (157, 47891), (163, 47840),

Gene: Petruccio_76 Start: 46087, Stop: 45788, Start Num: 104

Candidate Starts for Petruccio_76:

(Start: 104 @46087 has 185 MA's), (131, 46042), (133, 46039), (157, 45970), (163, 45919),

Gene: PetterN_78 Start: 45190, Stop: 44906, Start Num: 120

Candidate Starts for PetterN_78:

(Start: 111 @45202 has 23 MA's), (Start: 120 @45190 has 21 MA's), (131, 45163), (160, 45058), (163, 45034),

Gene: Phacado_75 Start: 45643, Stop: 45344, Start Num: 74

Candidate Starts for Phacado_75:

(Start: 74 @45643 has 115 MA's), (106, 45601),

Gene: Phaded_76 Start: 48095, Stop: 47787, Start Num: 74

Candidate Starts for Phaded_76:

(Start: 74 @48095 has 115 MA's), (106, 48053), (140, 47993),

Gene: Phaeder_87 Start: 47907, Stop: 47641, Start Num: 129
Candidate Starts for Phaeder_87:
(Start: 120 @47925 has 21 MA's), (Start: 129 @47907 has 17 MA's), (139, 47886), (160, 47790),

Gene: Phantastic_80 Start: 45465, Stop: 45187, Start Num: 123
Candidate Starts for Phantastic_80:
(Start: 123 @45465 has 98 MA's),

Gene: Pharaoh_77 Start: 47219, Stop: 46926, Start Num: 112
Candidate Starts for Pharaoh_77:
(Start: 112 @47219 has 5 MA's), (Start: 127 @47195 has 1 MA's), (128, 47192), (139, 47168), (152, 47135),

Gene: Phelipe_76 Start: 45687, Stop: 45388, Start Num: 74
Candidate Starts for Phelipe_76:
(Start: 74 @45687 has 115 MA's), (106, 45645),

Gene: PherrisBueller_75 Start: 44946, Stop: 44647, Start Num: 104
Candidate Starts for PherrisBueller_75:
(67, 45006), (Start: 104 @44946 has 185 MA's), (131, 44901), (133, 44898), (157, 44829), (163, 44778),

Gene: Phighter1804_75 Start: 45708, Stop: 45409, Start Num: 74
Candidate Starts for Phighter1804_75:
(Start: 74 @45708 has 115 MA's), (106, 45666),

Gene: PhishRPhriends_76 Start: 44622, Stop: 44359, Start Num: 123
Candidate Starts for PhishRPhriends_76:
(Start: 81 @44685 has 34 MA's), (Start: 94 @44667 has 2 MA's), (Start: 123 @44622 has 98 MA's), (131, 44601),

Gene: Phoebe_81 Start: 45623, Stop: 45360, Start Num: 123
Candidate Starts for Phoebe_81:
(Start: 81 @45686 has 34 MA's), (Start: 94 @45668 has 2 MA's), (Start: 123 @45623 has 98 MA's), (131, 45602),

Gene: Phonnegut_87 Start: 47920, Stop: 47657, Start Num: 129
Candidate Starts for Phonnegut_87:
(Start: 120 @47938 has 21 MA's), (Start: 129 @47920 has 17 MA's), (139, 47899), (160, 47803),

Gene: Phontbonne_75 Start: 45542, Stop: 45243, Start Num: 74
Candidate Starts for Phontbonne_75:
(Start: 74 @45542 has 115 MA's), (106, 45500),

Gene: Phoxy_80 Start: 45652, Stop: 45389, Start Num: 123
Candidate Starts for Phoxy_80:
(Start: 81 @45715 has 34 MA's), (Start: 94 @45697 has 2 MA's), (Start: 123 @45652 has 98 MA's), (131, 45631),

Gene: PhrostyMug_78 Start: 48672, Stop: 48373, Start Num: 104
Candidate Starts for PhrostyMug_78:

(Start: 82 @48702 has 1 MA's), (Start: 104 @48672 has 185 MA's), (131, 48627), (133, 48624), (157, 48555), (163, 48504),

Gene: PinkPlastic_72 Start: 45594, Stop: 45295, Start Num: 104

Candidate Starts for PinkPlastic_72:

(67, 45654), (Start: 104 @45594 has 185 MA's), (131, 45549), (133, 45546), (157, 45477), (163, 45426),

Gene: Pinto_76 Start: 47457, Stop: 47158, Start Num: 104

Candidate Starts for Pinto_76:

(67, 47517), (Start: 104 @47457 has 185 MA's), (131, 47412), (133, 47409), (144, 47391), (157, 47340), (163, 47289),

Gene: Pioneer_87 Start: 47920, Stop: 47657, Start Num: 129

Candidate Starts for Pioneer_87:

(Start: 120 @47938 has 21 MA's), (Start: 129 @47920 has 17 MA's), (139, 47899), (160, 47803),

Gene: Pipcraft_71 Start: 45648, Stop: 45349, Start Num: 74

Candidate Starts for Pipcraft_71:

(Start: 74 @45648 has 115 MA's), (106, 45606),

Gene: Pippin_77 Start: 47099, Stop: 46800, Start Num: 104

Candidate Starts for Pippin_77:

(67, 47159), (Start: 104 @47099 has 185 MA's), (131, 47054), (133, 47051), (157, 46982), (163, 46931),

Gene: Piro94_82 Start: 47405, Stop: 47094, Start Num: 81

Candidate Starts for Piro94_82:

(Start: 81 @47405 has 34 MA's), (95, 47393), (124, 47357), (130, 47342),

Gene: Pistachio_79 Start: 45583, Stop: 45311, Start Num: 123

Candidate Starts for Pistachio_79:

(Start: 123 @45583 has 98 MA's),

Gene: Pita2_77 Start: 47100, Stop: 46801, Start Num: 104

Candidate Starts for Pita2_77:

(Start: 82 @47130 has 1 MA's), (Start: 104 @47100 has 185 MA's), (131, 47055), (133, 47052), (157, 46983), (163, 46932),

Gene: Pmask_82 Start: 46196, Stop: 45906, Start Num: 75

Candidate Starts for Pmask_82:

(31, 46340), (36, 46310), (54, 46244), (Start: 58 @46238 has 1 MA's), (Start: 75 @46196 has 14 MA's), (Start: 123 @46154 has 98 MA's), (124, 46151), (Start: 127 @46145 has 1 MA's), (128, 46142), (131, 46133), (150, 46076),

Gene: Pocahontas_78 Start: 45995, Stop: 45717, Start Num: 123

Candidate Starts for Pocahontas_78:

(105, 46016), (Start: 121 @45998 has 7 MA's), (Start: 123 @45995 has 98 MA's), (131, 45977),

Gene: Polymorphads_76 Start: 45668, Stop: 45369, Start Num: 74

Candidate Starts for Polymorphads_76:

(Start: 74 @45668 has 115 MA's),

Gene: Pomar16_83 Start: 47270, Stop: 46992, Start Num: 122
Candidate Starts for Pomar16_83:
(Start: 122 @47270 has 16 MA's), (135, 47237), (139, 47231), (165, 47096),

Gene: Poompha_80 Start: 47542, Stop: 47252, Start Num: 108
Candidate Starts for Poompha_80:
(20, 47818), (Start: 108 @47542 has 13 MA's), (Start: 123 @47527 has 98 MA's), (133, 47509),

Gene: Popcicle_79 Start: 45995, Stop: 45717, Start Num: 123
Candidate Starts for Popcicle_79:
(105, 46016), (Start: 121 @45998 has 7 MA's), (Start: 123 @45995 has 98 MA's), (131, 45977),

Gene: PotatoSplit_81 Start: 45631, Stop: 45368, Start Num: 123
Candidate Starts for PotatoSplit_81:
(Start: 81 @45694 has 34 MA's), (Start: 94 @45676 has 2 MA's), (Start: 123 @45631 has 98 MA's),
(131, 45610),

Gene: Power_83 Start: 47968, Stop: 47660, Start Num: 84
Candidate Starts for Power_83:
(Start: 84 @47968 has 18 MA's), (124, 47920), (130, 47905), (145, 47863), (167, 47746),

Gene: Priamo_85 Start: 45857, Stop: 45609, Start Num: 123
Candidate Starts for Priamo_85:
(Start: 75 @45899 has 14 MA's), (Start: 123 @45857 has 98 MA's), (124, 45854), (Start: 127 @45848
has 1 MA's), (128, 45845), (131, 45836), (150, 45779),

Gene: Priya_85 Start: 47691, Stop: 47428, Start Num: 129
Candidate Starts for Priya_85:
(Start: 120 @47709 has 21 MA's), (Start: 129 @47691 has 17 MA's), (139, 47670), (160, 47574),

Gene: Pukovnik_77 Start: 47566, Stop: 47252, Start Num: 74
Candidate Starts for Pukovnik_77:
(Start: 74 @47566 has 115 MA's), (106, 47524), (150, 47446), (168, 47344),

Gene: Pumbaa_75 Start: 45592, Stop: 45293, Start Num: 74
Candidate Starts for Pumbaa_75:
(Start: 74 @45592 has 115 MA's), (106, 45550),

Gene: Puppy_80 Start: 45653, Stop: 45381, Start Num: 123
Candidate Starts for Puppy_80:
(Start: 123 @45653 has 98 MA's),

Gene: PurpleHaze_79 Start: 45438, Stop: 45175, Start Num: 123
Candidate Starts for PurpleHaze_79:
(Start: 81 @45501 has 34 MA's), (Start: 94 @45483 has 2 MA's), (Start: 123 @45438 has 98 MA's),
(131, 45417),

Gene: QTRlifeCrisis_76 Start: 46442, Stop: 46143, Start Num: 104
Candidate Starts for QTRlifeCrisis_76:
(Start: 104 @46442 has 185 MA's), (131, 46397), (133, 46394), (157, 46325), (163, 46274),

Gene: Qobbit_85 Start: 47653, Stop: 47390, Start Num: 129
Candidate Starts for Qobbit_85:

(Start: 120 @47671 has 21 MA's), (Start: 129 @47653 has 17 MA's), (139, 47632), (160, 47536),

Gene: QueenB2_80 Start: 47058, Stop: 46753, Start Num: 84

Candidate Starts for QueenB2_80:

(Start: 84 @47058 has 18 MA's), (124, 47013), (167, 46839),

Gene: QueenBeesly_83 Start: 47765, Stop: 47457, Start Num: 84

Candidate Starts for QueenBeesly_83:

(Start: 84 @47765 has 18 MA's), (124, 47717), (130, 47702), (145, 47660), (167, 47543),

Gene: QuinnKiro_78 Start: 46001, Stop: 45720, Start Num: 121

Candidate Starts for QuinnKiro_78:

(105, 46019), (Start: 121 @46001 has 7 MA's), (Start: 123 @45998 has 98 MA's), (131, 45980),

Gene: Rachaly_80 Start: 46883, Stop: 46569, Start Num: 72

Candidate Starts for Rachaly_80:

(Start: 72 @46883 has 5 MA's), (96, 46856), (102, 46847), (151, 46760),

Gene: Rahalelujah_86 Start: 47466, Stop: 47197, Start Num: 120

Candidate Starts for Rahalelujah_86:

(Start: 120 @47466 has 21 MA's), (Start: 129 @47448 has 17 MA's), (139, 47427),

Gene: Rajelicia_78 Start: 49280, Stop: 48981, Start Num: 104

Candidate Starts for Rajelicia_78:

(67, 49340), (Start: 104 @49280 has 185 MA's), (131, 49235), (133, 49232), (157, 49163), (163, 49112),

Gene: Reba_75 Start: 44278, Stop: 44015, Start Num: 123

Candidate Starts for Reba_75:

(Start: 81 @44341 has 34 MA's), (Start: 94 @44323 has 2 MA's), (Start: 123 @44278 has 98 MA's), (131, 44257),

Gene: Rebeuca_84 Start: 48801, Stop: 48520, Start Num: 108

Candidate Starts for Rebeuca_84:

(13, 49209), (18, 49113), (93, 48825), (Start: 108 @48801 has 13 MA's),

Gene: RedRock_83 Start: 48017, Stop: 47718, Start Num: 88

Candidate Starts for RedRock_83:

(Start: 88 @48017 has 4 MA's), (97, 48005), (99, 48002), (101, 47999), (Start: 117 @47978 has 3 MA's), (130, 47957),

Gene: Refuge_80 Start: 47830, Stop: 47555, Start Num: 112

Candidate Starts for Refuge_80:

(Start: 112 @47830 has 5 MA's), (126, 47809), (135, 47785), (142, 47773),

Gene: Relief_74 Start: 45644, Stop: 45345, Start Num: 74

Candidate Starts for Relief_74:

(Start: 74 @45644 has 115 MA's), (106, 45602),

Gene: ResDef_77 Start: 46001, Stop: 45723, Start Num: 123

Candidate Starts for ResDef_77:

(105, 46022), (Start: 121 @46004 has 7 MA's), (Start: 123 @46001 has 98 MA's), (131, 45983),

Gene: Retro23_83 Start: 47489, Stop: 47184, Start Num: 84
Candidate Starts for Retro23_83:
(Start: 84 @47489 has 18 MA's), (124, 47444), (130, 47429), (145, 47387), (167, 47270),

Gene: RhynO_71 Start: 44245, Stop: 43955, Start Num: 108
Candidate Starts for RhynO_71:
(Start: 108 @44245 has 13 MA's),

Gene: Rhynn_72 Start: 46867, Stop: 46568, Start Num: 104
Candidate Starts for Rhynn_72:
(Start: 82 @46897 has 1 MA's), (Start: 104 @46867 has 185 MA's), (131, 46822), (133, 46819), (157, 46750), (158, 46738), (163, 46699),

Gene: Rifter_84 Start: 45121, Stop: 44810, Start Num: 109
Candidate Starts for Rifter_84:
(11, 45574), (26, 45367), (28, 45361), (69, 45193), (Start: 109 @45121 has 18 MA's), (Start: 122 @45103 has 16 MA's), (Start: 123 @45100 has 98 MA's), (124, 45097), (126, 45094), (Start: 129 @45085 has 17 MA's), (131, 45079), (132, 45076), (140, 45055), (148, 45019),

Gene: Ringer_76 Start: 47812, Stop: 47513, Start Num: 104
Candidate Starts for Ringer_76:
(98, 47821), (Start: 104 @47812 has 185 MA's), (131, 47767), (133, 47764), (157, 47695), (163, 47644),

Gene: Rohr_79 Start: 49063, Stop: 48764, Start Num: 104
Candidate Starts for Rohr_79:
(67, 49123), (Start: 104 @49063 has 185 MA's), (131, 49018), (133, 49015), (157, 48946), (163, 48895),

Gene: Roksolana_84 Start: 45837, Stop: 45574, Start Num: 109
Candidate Starts for Roksolana_84:
(23, 46137), (27, 46080), (28, 46077), (33, 46032), (69, 45909), (Start: 109 @45837 has 18 MA's), (Start: 123 @45825 has 98 MA's), (126, 45819), (140, 45780),

Gene: Romney_74 Start: 45644, Stop: 45345, Start Num: 74
Candidate Starts for Romney_74:
(Start: 74 @45644 has 115 MA's), (106, 45602),

Gene: Roosevelt_73 Start: 45649, Stop: 45350, Start Num: 74
Candidate Starts for Roosevelt_73:
(Start: 74 @45649 has 115 MA's), (106, 45607),

Gene: Rubeus_77 Start: 45563, Stop: 45264, Start Num: 104
Candidate Starts for Rubeus_77:
(67, 45623), (Start: 104 @45563 has 185 MA's), (131, 45518), (133, 45515), (157, 45446), (163, 45395),

Gene: Rufus_79 Start: 48252, Stop: 47953, Start Num: 104
Candidate Starts for Rufus_79:
(67, 48312), (Start: 104 @48252 has 185 MA's), (131, 48207), (133, 48204), (157, 48135), (163, 48084),

Gene: Ruin_75 Start: 45640, Stop: 45341, Start Num: 74

Candidate Starts for Ruin_75:
(Start: 74 @45640 has 115 MA's), (106, 45598),

Gene: Rummer_79 Start: 45655, Stop: 45392, Start Num: 123
Candidate Starts for Rummer_79:
(Start: 81 @45718 has 34 MA's), (Start: 94 @45700 has 2 MA's), (Start: 123 @45655 has 98 MA's),
(131, 45634),

Gene: Ruotula_80 Start: 48665, Stop: 48366, Start Num: 104
Candidate Starts for Ruotula_80:
(Start: 104 @48665 has 185 MA's), (Start: 112 @48653 has 5 MA's), (131, 48620), (133, 48617), (157,
48548), (163, 48497),

Gene: Rutherferd_78 Start: 47832, Stop: 47533, Start Num: 104
Candidate Starts for Rutherferd_78:
(Start: 104 @47832 has 185 MA's), (131, 47787), (133, 47784), (157, 47715), (163, 47664),

Gene: STLscum_82 Start: 47874, Stop: 47575, Start Num: 104
Candidate Starts for STLscum_82:
(Start: 82 @47904 has 1 MA's), (Start: 104 @47874 has 185 MA's), (131, 47829), (133, 47826), (157,
47757), (163, 47706),

Gene: Sabertooth_75 Start: 45652, Stop: 45353, Start Num: 74
Candidate Starts for Sabertooth_75:
(Start: 74 @45652 has 115 MA's), (106, 45610),

Gene: Sabia_78 Start: 45635, Stop: 45372, Start Num: 123
Candidate Starts for Sabia_78:
(Start: 81 @45698 has 34 MA's), (Start: 94 @45680 has 2 MA's), (Start: 123 @45635 has 98 MA's),

Gene: Sabinator_78 Start: 45629, Stop: 45366, Start Num: 123
Candidate Starts for Sabinator_78:
(Start: 81 @45692 has 34 MA's), (Start: 94 @45674 has 2 MA's), (Start: 123 @45629 has 98 MA's),
(131, 45608),

Gene: Sagefire_73 Start: 46922, Stop: 46623, Start Num: 104
Candidate Starts for Sagefire_73:
(67, 46982), (Start: 104 @46922 has 185 MA's), (131, 46877), (133, 46874), (157, 46805), (163,
46754),

Gene: Salz_79 Start: 45184, Stop: 44888, Start Num: 111
Candidate Starts for Salz_79:
(Start: 111 @45184 has 23 MA's), (118, 45175), (134, 45145), (139, 45136), (160, 45046),

Gene: Sandaddy_74 Start: 47254, Stop: 46955, Start Num: 104
Candidate Starts for Sandaddy_74:
(Start: 82 @47284 has 1 MA's), (Start: 104 @47254 has 185 MA's), (131, 47209), (133, 47206), (157,
47137), (163, 47086),

Gene: SarFire_80 Start: 48896, Stop: 48597, Start Num: 104
Candidate Starts for SarFire_80:
(67, 48956), (Start: 104 @48896 has 185 MA's), (131, 48851), (133, 48848), (157, 48779), (163,
48728),

Gene: SaturnRing_79 Start: 46036, Stop: 45764, Start Num: 123

Candidate Starts for SaturnRing_79:

(Start: 123 @46036 has 98 MA's),

Gene: Scamp_75 Start: 45649, Stop: 45350, Start Num: 74

Candidate Starts for Scamp_75:

(Start: 74 @45649 has 115 MA's), (106, 45607),

Gene: Scherzo_85 Start: 47952, Stop: 47689, Start Num: 129

Candidate Starts for Scherzo_85:

(Start: 120 @47970 has 21 MA's), (Start: 129 @47952 has 17 MA's), (139, 47931), (160, 47835),

Gene: Scout_78 Start: 45217, Stop: 44933, Start Num: 123

Candidate Starts for Scout_78:

(Start: 123 @45217 has 98 MA's), (172, 45013),

Gene: Scowl_77 Start: 47219, Stop: 46920, Start Num: 104

Candidate Starts for Scowl_77:

(67, 47279), (Start: 104 @47219 has 185 MA's), (131, 47174), (133, 47171), (157, 47102), (163, 47051),

Gene: Seabiscuit_77 Start: 46319, Stop: 46020, Start Num: 104

Candidate Starts for Seabiscuit_77:

(67, 46379), (Start: 104 @46319 has 185 MA's), (131, 46274), (133, 46271), (157, 46202), (163, 46151),

Gene: Seanderson_76 Start: 48623, Stop: 48324, Start Num: 104

Candidate Starts for Seanderson_76:

(67, 48683), (Start: 104 @48623 has 185 MA's), (131, 48578), (133, 48575), (157, 48506), (163, 48455),

Gene: SemperFi_83 Start: 47653, Stop: 47345, Start Num: 84

Candidate Starts for SemperFi_83:

(Start: 84 @47653 has 18 MA's), (124, 47605), (130, 47590), (145, 47548), (167, 47431),

Gene: Serenity_86 Start: 46855, Stop: 46580, Start Num: 122

Candidate Starts for Serenity_86:

(29, 47104), (Start: 122 @46855 has 16 MA's), (133, 46828), (135, 46822), (139, 46816),

Gene: Severus_81 Start: 47539, Stop: 47252, Start Num: 108

Candidate Starts for Severus_81:

(2, 48346), (3, 48325), (4, 48313), (16, 47899), (24, 47803), (Start: 108 @47539 has 13 MA's), (Start: 123 @47524 has 98 MA's), (133, 47506),

Gene: Shaka_73 Start: 45645, Stop: 45346, Start Num: 74

Candidate Starts for Shaka_73:

(Start: 74 @45645 has 115 MA's), (106, 45603),

Gene: Sham4_80 Start: 45270, Stop: 44971, Start Num: 111

Candidate Starts for Sham4_80:

(Start: 111 @45270 has 23 MA's), (118, 45261), (134, 45231), (139, 45222), (160, 45132),

Gene: SheaKeira_82 Start: 47212, Stop: 46940, Start Num: 120
Candidate Starts for SheaKeira_82:
(Start: 120 @47212 has 21 MA's), (Start: 129 @47194 has 17 MA's), (139, 47173),

Gene: Sheen_75 Start: 48554, Stop: 48285, Start Num: 120
Candidate Starts for Sheen_75:
(36, 48746), (41, 48728), (56, 48674), (Start: 58 @48671 has 1 MA's), (Start: 120 @48554 has 21 MA's), (126, 48542), (142, 48506), (146, 48500), (156, 48464), (160, 48425), (163, 48401),

Gene: SheldonCooper_75 Start: 46085, Stop: 45786, Start Num: 74
Candidate Starts for SheldonCooper_75:
(Start: 74 @46085 has 115 MA's), (106, 46043),

Gene: ShortQueendom_69 Start: 44928, Stop: 44629, Start Num: 104
Candidate Starts for ShortQueendom_69:
(67, 44988), (Start: 104 @44928 has 185 MA's), (131, 44883), (133, 44880), (157, 44811), (163, 44760),

Gene: Shygu2_74 Start: 45745, Stop: 45449, Start Num: 74
Candidate Starts for Shygu2_74:
(Start: 74 @45745 has 115 MA's), (106, 45703), (150, 45625),

Gene: Sibs6_76 Start: 44568, Stop: 44269, Start Num: 104
Candidate Starts for Sibs6_76:
(Start: 82 @44598 has 1 MA's), (Start: 104 @44568 has 185 MA's), (131, 44523), (133, 44520), (157, 44451), (163, 44400),

Gene: SkiPole_85 Start: 48224, Stop: 47925, Start Num: 104
Candidate Starts for SkiPole_85:
(67, 48284), (Start: 104 @48224 has 185 MA's), (131, 48179), (133, 48176), (157, 48107), (163, 48056),

Gene: Skipitt_74 Start: 45641, Stop: 45342, Start Num: 74
Candidate Starts for Skipitt_74:
(Start: 74 @45641 has 115 MA's), (106, 45599),

Gene: Slagathor_77 Start: 48080, Stop: 47781, Start Num: 104
Candidate Starts for Slagathor_77:
(67, 48140), (Start: 104 @48080 has 185 MA's), (131, 48035), (133, 48032), (157, 47963), (163, 47912),

Gene: Smairt_80 Start: 49688, Stop: 49389, Start Num: 104
Candidate Starts for Smairt_80:
(Start: 82 @49718 has 1 MA's), (Start: 104 @49688 has 185 MA's), (131, 49643), (133, 49640), (157, 49571), (163, 49520),

Gene: Smeagan_86 Start: 48201, Stop: 47893, Start Num: 81
Candidate Starts for Smeagan_86:
(Start: 81 @48201 has 34 MA's), (Start: 84 @48198 has 18 MA's), (Start: 117 @48156 has 3 MA's), (124, 48150), (130, 48135), (167, 47976),

Gene: SmellyB_83 Start: 45554, Stop: 45264, Start Num: 75
Candidate Starts for SmellyB_83:

(31, 45698), (36, 45668), (54, 45602), (Start: 58 @45596 has 1 MA's), (Start: 75 @45554 has 14 MA's), (Start: 123 @45512 has 98 MA's), (124, 45509), (Start: 127 @45503 has 1 MA's), (128, 45500), (131, 45491), (150, 45434), (154, 45419),

Gene: SnapTap_83 Start: 47624, Stop: 47316, Start Num: 84

Candidate Starts for SnapTap_83:

(Start: 84 @47624 has 18 MA's), (124, 47576), (130, 47561), (145, 47519), (167, 47402),

Gene: Snape_84 Start: 46377, Stop: 46081, Start Num: 111

Candidate Starts for Snape_84:

(Start: 111 @46377 has 23 MA's), (118, 46368), (134, 46338), (139, 46329), (160, 46239),

Gene: Snazzy_77 Start: 47731, Stop: 47432, Start Num: 104

Candidate Starts for Snazzy_77:

(67, 47791), (Start: 104 @47731 has 185 MA's), (131, 47686), (133, 47683), (157, 47614), (163, 47563),

Gene: Snickers_76 Start: 45600, Stop: 45337, Start Num: 123

Candidate Starts for Snickers_76:

(Start: 81 @45663 has 34 MA's), (Start: 94 @45645 has 2 MA's), (Start: 123 @45600 has 98 MA's), (131, 45579),

Gene: SoYo_77 Start: 45543, Stop: 45280, Start Num: 123

Candidate Starts for SoYo_77:

(Start: 81 @45606 has 34 MA's), (Start: 94 @45588 has 2 MA's), (Start: 123 @45543 has 98 MA's), (131, 45522),

Gene: SoilDragon_80 Start: 45070, Stop: 44807, Start Num: 123

Candidate Starts for SoilDragon_80:

(Start: 81 @45133 has 34 MA's), (Start: 94 @45115 has 2 MA's), (Start: 123 @45070 has 98 MA's), (131, 45049),

Gene: Solon_72 Start: 45366, Stop: 45067, Start Num: 104

Candidate Starts for Solon_72:

(67, 45426), (Start: 104 @45366 has 185 MA's), (131, 45321), (133, 45318), (157, 45249), (163, 45198),

Gene: SororFago_82 Start: 47294, Stop: 47022, Start Num: 125

Candidate Starts for SororFago_82:

(52, 47426), (59, 47414), (Start: 125 @47294 has 4 MA's), (142, 47258), (143, 47255), (155, 47210),

Gene: Sorpresa_73 Start: 47260, Stop: 46961, Start Num: 104

Candidate Starts for Sorpresa_73:

(Start: 82 @47290 has 1 MA's), (Start: 104 @47260 has 185 MA's), (131, 47215), (133, 47212), (157, 47143), (163, 47092),

Gene: Soshari_82 Start: 45651, Stop: 45388, Start Num: 123

Candidate Starts for Soshari_82:

(Start: 81 @45714 has 34 MA's), (Start: 94 @45696 has 2 MA's), (Start: 123 @45651 has 98 MA's), (131, 45630),

Gene: Sparxx_76 Start: 45643, Stop: 45344, Start Num: 74

Candidate Starts for Sparxx_76:

(Start: 74 @45643 has 115 MA's), (106, 45601),

Gene: Spike509_80 Start: 45652, Stop: 45389, Start Num: 123

Candidate Starts for Spike509_80:

(Start: 81 @45715 has 34 MA's), (Start: 94 @45697 has 2 MA's), (Start: 123 @45652 has 98 MA's), (131, 45631),

Gene: SpikeBT_73 Start: 46188, Stop: 45889, Start Num: 104

Candidate Starts for SpikeBT_73:

(Start: 82 @46218 has 1 MA's), (Start: 104 @46188 has 185 MA's), (131, 46143), (133, 46140), (157, 46071), (163, 46020),

Gene: Spino_74 Start: 45647, Stop: 45348, Start Num: 74

Candidate Starts for Spino_74:

(Start: 74 @45647 has 115 MA's), (106, 45605),

Gene: Spouty_82 Start: 47690, Stop: 47427, Start Num: 129

Candidate Starts for Spouty_82:

(Start: 120 @47708 has 21 MA's), (Start: 129 @47690 has 17 MA's), (139, 47669), (160, 47573),

Gene: Squee_77 Start: 46804, Stop: 46505, Start Num: 104

Candidate Starts for Squee_77:

(67, 46864), (Start: 104 @46804 has 185 MA's), (131, 46759), (133, 46756), (157, 46687), (163, 46636),

Gene: Stagni_77 Start: 45630, Stop: 45367, Start Num: 123

Candidate Starts for Stagni_77:

(Start: 81 @45693 has 34 MA's), (Start: 94 @45675 has 2 MA's), (Start: 123 @45630 has 98 MA's),

Gene: StarStuff_83 Start: 47232, Stop: 46954, Start Num: 122

Candidate Starts for StarStuff_83:

(Start: 122 @47232 has 16 MA's), (135, 47199), (139, 47193), (165, 47058),

Gene: Stasia_73 Start: 45644, Stop: 45327, Start Num: 72

Candidate Starts for Stasia_73:

(21, 45875), (37, 45752), (66, 45659), (Start: 72 @45644 has 5 MA's), (Start: 73 @45641 has 5 MA's), (Start: 74 @45638 has 115 MA's), (Start: 104 @45599 has 185 MA's),

Gene: Steamy_75 Start: 46308, Stop: 46036, Start Num: 112

Candidate Starts for Steamy_75:

(Start: 112 @46308 has 5 MA's), (133, 46269), (135, 46263),

Gene: StepMih_80 Start: 45621, Stop: 45358, Start Num: 123

Candidate Starts for StepMih_80:

(Start: 81 @45684 has 34 MA's), (Start: 94 @45666 has 2 MA's), (Start: 123 @45621 has 98 MA's),

Gene: StewieG_72 Start: 44368, Stop: 44039, Start Num: 82

Candidate Starts for StewieG_72:

(Start: 82 @44368 has 1 MA's), (Start: 104 @44338 has 185 MA's), (131, 44293), (133, 44290), (157, 44221), (163, 44170),

Gene: Stink_74 Start: 45501, Stop: 45226, Start Num: 104

Candidate Starts for Stink_74:

(34, 45666), (89, 45522), (Start: 104 @45501 has 185 MA's), (Start: 123 @45483 has 98 MA's), (149, 45414), (169, 45315),

Gene: StrongArm_72 Start: 46736, Stop: 46437, Start Num: 104

Candidate Starts for StrongArm_72:

(67, 46796), (Start: 104 @46736 has 185 MA's), (131, 46691), (133, 46688), (157, 46619), (163, 46568),

Gene: Sumter_73 Start: 47729, Stop: 47430, Start Num: 104

Candidate Starts for Sumter_73:

(Start: 82 @47759 has 1 MA's), (Start: 104 @47729 has 185 MA's), (131, 47684), (133, 47681), (157, 47612), (163, 47561),

Gene: Sunshine924_77 Start: 46251, Stop: 45952, Start Num: 104

Candidate Starts for Sunshine924_77:

(Start: 104 @46251 has 185 MA's), (131, 46206), (133, 46203), (157, 46134), (163, 46083),

Gene: SuperAwesome_83 Start: 46235, Stop: 45945, Start Num: 75

Candidate Starts for SuperAwesome_83:

(31, 46379), (36, 46349), (54, 46283), (Start: 58 @46277 has 1 MA's), (Start: 75 @46235 has 14 MA's), (Start: 123 @46193 has 98 MA's), (124, 46190), (Start: 127 @46184 has 1 MA's), (128, 46181), (131, 46172), (150, 46115),

Gene: SuperCallie99_80 Start: 46034, Stop: 45786, Start Num: 123

Candidate Starts for SuperCallie99_80:

(Start: 75 @46076 has 14 MA's), (Start: 123 @46034 has 98 MA's), (124, 46031), (Start: 127 @46025 has 1 MA's), (128, 46022), (131, 46013), (150, 45956),

Gene: SweetiePie_83 Start: 47757, Stop: 47449, Start Num: 84

Candidate Starts for SweetiePie_83:

(Start: 84 @47757 has 18 MA's), (124, 47709), (130, 47694), (145, 47652), (167, 47535),

Gene: SwissCheese_80 Start: 47251, Stop: 46952, Start Num: 104

Candidate Starts for SwissCheese_80:

(Start: 82 @47281 has 1 MA's), (Start: 104 @47251 has 185 MA's), (131, 47206), (133, 47203), (157, 47134), (163, 47083),

Gene: Switzer_75 Start: 47195, Stop: 46896, Start Num: 104

Candidate Starts for Switzer_75:

(67, 47255), (Start: 104 @47195 has 185 MA's), (131, 47150), (133, 47147), (157, 47078), (163, 47027),

Gene: Swole_74 Start: 47010, Stop: 46711, Start Num: 104

Candidate Starts for Swole_74:

(Start: 82 @47040 has 1 MA's), (Start: 104 @47010 has 185 MA's), (131, 46965), (133, 46962), (157, 46893), (163, 46842),

Gene: SydNat_70 Start: 44362, Stop: 44045, Start Num: 110

Candidate Starts for SydNat_70:

(68, 44434), (96, 44383), (103, 44374), (Start: 110 @44362 has 7 MA's), (Start: 115 @44356 has 1 MA's), (133, 44320), (139, 44308),

Gene: TNguyen7_80 Start: 45994, Stop: 45722, Start Num: 123

Candidate Starts for TNguyen7_80:
(Start: 123 @45994 has 98 MA's),

Gene: Taquarus_74 Start: 45650, Stop: 45351, Start Num: 74
Candidate Starts for Taquarus_74:
(Start: 74 @45650 has 115 MA's), (106, 45608),

Gene: Target_76 Start: 45828, Stop: 45529, Start Num: 104
Candidate Starts for Target_76:
(67, 45888), (Start: 104 @45828 has 185 MA's), (131, 45783), (133, 45780), (157, 45711), (158, 45699), (163, 45660),

Gene: TarsusIV_82 Start: 47656, Stop: 47333, Start Num: 81
Candidate Starts for TarsusIV_82:
(22, 47893), (Start: 81 @47656 has 34 MA's), (Start: 117 @47617 has 3 MA's), (124, 47611),

Gene: Tasp14_75 Start: 47298, Stop: 46999, Start Num: 104
Candidate Starts for Tasp14_75:
(Start: 82 @47328 has 1 MA's), (Start: 104 @47298 has 185 MA's), (131, 47253), (133, 47250), (157, 47181), (163, 47130),

Gene: Taurus_81 Start: 45630, Stop: 45367, Start Num: 123
Candidate Starts for Taurus_81:
(Start: 81 @45693 has 34 MA's), (Start: 94 @45675 has 2 MA's), (Start: 123 @45630 has 98 MA's), (131, 45609),

Gene: Teodoridan_74 Start: 45135, Stop: 44836, Start Num: 104
Candidate Starts for Teodoridan_74:
(67, 45195), (Start: 104 @45135 has 185 MA's), (131, 45090), (133, 45087), (157, 45018), (163, 44967),

Gene: Texage_77 Start: 45999, Stop: 45721, Start Num: 123
Candidate Starts for Texage_77:
(105, 46020), (Start: 121 @46002 has 7 MA's), (Start: 123 @45999 has 98 MA's),

Gene: Thanksgivukkah_74 Start: 45645, Stop: 45346, Start Num: 74
Candidate Starts for Thanksgivukkah_74:
(Start: 74 @45645 has 115 MA's), (106, 45603),

Gene: Theia_69 Start: 44485, Stop: 44186, Start Num: 110
Candidate Starts for Theia_69:
(103, 44497), (Start: 110 @44485 has 7 MA's), (Start: 115 @44479 has 1 MA's), (133, 44443), (139, 44431), (160, 44341), (165, 44302),

Gene: TheloniousMonk_78 Start: 48520, Stop: 48221, Start Num: 104
Candidate Starts for TheloniousMonk_78:
(67, 48580), (Start: 104 @48520 has 185 MA's), (131, 48475), (133, 48472), (157, 48403), (163, 48352),

Gene: Thor_80 Start: 48254, Stop: 47955, Start Num: 104
Candidate Starts for Thor_80:
(67, 48314), (Start: 104 @48254 has 185 MA's), (131, 48209), (133, 48206), (157, 48137), (163, 48086),

Gene: Tiffany_79 Start: 45515, Stop: 45252, Start Num: 123

Candidate Starts for Tiffany_79:

(Start: 81 @45578 has 34 MA's), (Start: 94 @45560 has 2 MA's), (Start: 123 @45515 has 98 MA's), (131, 45494),

Gene: Timothy_84 Start: 46354, Stop: 46058, Start Num: 111

Candidate Starts for Timothy_84:

(Start: 111 @46354 has 23 MA's), (118, 46345), (Start: 120 @46342 has 21 MA's), (134, 46315), (139, 46306), (160, 46216),

Gene: Timshel_75 Start: 48520, Stop: 48227, Start Num: 90

Candidate Starts for Timshel_75:

(35, 48667), (44, 48634), (Start: 90 @48520 has 3 MA's), (Start: 109 @48490 has 18 MA's), (130, 48460),

Gene: TinaFeyge_73 Start: 45642, Stop: 45343, Start Num: 74

Candidate Starts for TinaFeyge_73:

(Start: 74 @45642 has 115 MA's), (106, 45600),

Gene: TinyTimmy_82 Start: 46083, Stop: 45787, Start Num: 111

Candidate Starts for TinyTimmy_82:

(Start: 111 @46083 has 23 MA's), (118, 46074), (Start: 120 @46071 has 21 MA's), (134, 46044), (139, 46035), (160, 45945),

Gene: Tinybot_74 Start: 45674, Stop: 45375, Start Num: 74

Candidate Starts for Tinybot_74:

(Start: 74 @45674 has 115 MA's), (106, 45632),

Gene: TopsytheTRex_82 Start: 46857, Stop: 46582, Start Num: 122

Candidate Starts for TopsytheTRex_82:

(29, 47106), (Start: 122 @46857 has 16 MA's), (133, 46830), (135, 46824), (139, 46818),

Gene: TiroTheta9_74 Start: 45641, Stop: 45342, Start Num: 74

Candidate Starts for TiroTheta9_74:

(Start: 74 @45641 has 115 MA's), (106, 45599),

Gene: Toaka_85 Start: 47815, Stop: 47546, Start Num: 120

Candidate Starts for Toaka_85:

(Start: 120 @47815 has 21 MA's), (Start: 129 @47797 has 17 MA's), (139, 47776), (161, 47677),

Gene: Todacoro_79 Start: 45998, Stop: 45720, Start Num: 123

Candidate Starts for Todacoro_79:

(105, 46019), (Start: 121 @46001 has 7 MA's), (Start: 123 @45998 has 98 MA's), (131, 45980),

Gene: Tomathan_83 Start: 47310, Stop: 47032, Start Num: 122

Candidate Starts for Tomathan_83:

(Start: 122 @47310 has 16 MA's), (135, 47277), (139, 47271), (165, 47136),

Gene: ToneTone_81 Start: 45501, Stop: 45238, Start Num: 109

Candidate Starts for ToneTone_81:

(23, 45801), (27, 45744), (28, 45741), (33, 45696), (69, 45573), (Start: 109 @45501 has 18 MA's), (Start: 123 @45489 has 98 MA's), (126, 45483), (140, 45444),

Gene: Topanga_73 Start: 45266, Stop: 44976, Start Num: 116
Candidate Starts for Topanga_73:
(93, 45299), (Start: 116 @45266 has 4 MA's),

Gene: Topgun_72 Start: 45472, Stop: 45173, Start Num: 104
Candidate Starts for Topgun_72:
(67, 45532), (Start: 104 @45472 has 185 MA's), (131, 45427), (133, 45424), (157, 45355), (163, 45304),

Gene: Tote_72 Start: 44278, Stop: 43979, Start Num: 104
Candidate Starts for Tote_72:
(Start: 82 @44308 has 1 MA's), (Start: 104 @44278 has 185 MA's), (131, 44233), (133, 44230), (157, 44161), (163, 44110),

Gene: Traft412_76 Start: 47553, Stop: 47254, Start Num: 104
Candidate Starts for Traft412_76:
(67, 47613), (Start: 104 @47553 has 185 MA's), (131, 47508), (133, 47505), (157, 47436), (163, 47385),

Gene: Treddle_78 Start: 48283, Stop: 47984, Start Num: 104
Candidate Starts for Treddle_78:
(67, 48343), (Start: 104 @48283 has 185 MA's), (131, 48238), (133, 48235), (157, 48166), (163, 48115),

Gene: Tripl3t_79 Start: 49835, Stop: 49536, Start Num: 104
Candidate Starts for Tripl3t_79:
(Start: 104 @49835 has 185 MA's), (131, 49790), (133, 49787), (157, 49718), (163, 49667),

Gene: Trixie_83 Start: 48218, Stop: 47910, Start Num: 91
Candidate Starts for Trixie_83:
(Start: 91 @48218 has 2 MA's), (Start: 117 @48179 has 3 MA's), (Start: 123 @48176 has 98 MA's),

Gene: Trooper_82 Start: 47215, Stop: 46895, Start Num: 81
Candidate Starts for Trooper_82:
(Start: 81 @47215 has 34 MA's), (124, 47167), (Start: 127 @47161 has 1 MA's), (167, 46984),

Gene: Trouble_76 Start: 47362, Stop: 47063, Start Num: 104
Candidate Starts for Trouble_76:
(30, 47569), (32, 47542), (38, 47521), (42, 47500), (43, 47497), (49, 47470), (53, 47458), (Start: 58 @47449 has 1 MA's), (64, 47434), (92, 47380), (Start: 104 @47362 has 185 MA's), (131, 47317), (133, 47314), (157, 47245), (163, 47194),

Gene: TroyPia_76 Start: 45682, Stop: 45383, Start Num: 74
Candidate Starts for TroyPia_76:
(Start: 74 @45682 has 115 MA's), (106, 45640),

Gene: Tubs_87 Start: 47925, Stop: 47641, Start Num: 120
Candidate Starts for Tubs_87:
(Start: 120 @47925 has 21 MA's), (Start: 129 @47907 has 17 MA's), (139, 47886), (160, 47790),

Gene: Tucker_84 Start: 45704, Stop: 45441, Start Num: 109
Candidate Starts for Tucker_84:

(23, 46004), (27, 45947), (28, 45944), (33, 45899), (69, 45776), (Start: 109 @45704 has 18 MA's),
(Start: 123 @45692 has 98 MA's), (126, 45686), (140, 45647),

Gene: Turbido_84 Start: 47922, Stop: 47614, Start Num: 81

Candidate Starts for Turbido_84:

(Start: 81 @47922 has 34 MA's), (Start: 84 @47919 has 18 MA's), (Start: 117 @47877 has 3 MA's),
(124, 47871), (130, 47856), (167, 47697),

Gene: Turj99_72 Start: 46853, Stop: 46554, Start Num: 104

Candidate Starts for Turj99_72:

(Start: 104 @46853 has 185 MA's), (131, 46808), (133, 46805), (163, 46685),

Gene: Twister_84 Start: 48480, Stop: 48184, Start Num: 116

Candidate Starts for Twister_84:

(93, 48513), (Start: 116 @48480 has 4 MA's),

Gene: TwoPeat_73 Start: 46815, Stop: 46516, Start Num: 104

Candidate Starts for TwoPeat_73:

(67, 46875), (Start: 104 @46815 has 185 MA's), (131, 46770), (133, 46767), (142, 46752), (157,
46698), (163, 46647),

Gene: TygerBlood_75 Start: 45647, Stop: 45348, Start Num: 74

Candidate Starts for TygerBlood_75:

(Start: 74 @45647 has 115 MA's), (106, 45605),

Gene: U2_70 Start: 47052, Stop: 46753, Start Num: 104

Candidate Starts for U2_70:

(Start: 82 @47082 has 1 MA's), (Start: 104 @47052 has 185 MA's), (131, 47007), (133, 47004), (157,
46935), (163, 46884),

Gene: Ugenie5_74 Start: 45396, Stop: 45133, Start Num: 129

Candidate Starts for Ugenie5_74:

(Start: 120 @45414 has 21 MA's), (Start: 129 @45396 has 17 MA's), (139, 45375), (160, 45279),

Gene: Ulysses_74 Start: 45330, Stop: 45031, Start Num: 74

Candidate Starts for Ulysses_74:

(Start: 74 @45330 has 115 MA's), (106, 45288),

Gene: Updawg_84 Start: 47452, Stop: 47141, Start Num: 81

Candidate Starts for Updawg_84:

(Start: 81 @47452 has 34 MA's), (95, 47440), (Start: 117 @47410 has 3 MA's), (124, 47404), (130,
47389),

Gene: VA6_83 Start: 47497, Stop: 47174, Start Num: 84

Candidate Starts for VA6_83:

(15, 47827), (17, 47800), (46, 47590), (Start: 84 @47497 has 18 MA's), (86, 47494), (124, 47446),
(130, 47431), (145, 47389),

Gene: VC3_81 Start: 46132, Stop: 45854, Start Num: 122

Candidate Starts for VC3_81:

(Start: 122 @46132 has 16 MA's), (135, 46099), (139, 46093), (165, 45958),

Gene: Vanisoa_82 Start: 48147, Stop: 47884, Start Num: 120

Candidate Starts for Vanisoa_82:
(Start: 120 @48147 has 21 MA's), (139, 48114), (161, 48015),

Gene: Veracruz_76 Start: 46002, Stop: 45721, Start Num: 121
Candidate Starts for Veracruz_76:
(105, 46020), (Start: 121 @46002 has 7 MA's), (Start: 123 @45999 has 98 MA's), (131, 45981),

Gene: Violet_71 Start: 47447, Stop: 47148, Start Num: 104
Candidate Starts for Violet_71:
(67, 47507), (Start: 104 @47447 has 185 MA's), (131, 47402), (133, 47399), (157, 47330), (163, 47279),

Gene: Vix_76 Start: 45710, Stop: 45447, Start Num: 123
Candidate Starts for Vix_76:
(Start: 81 @45773 has 34 MA's), (Start: 94 @45755 has 2 MA's), (Start: 123 @45710 has 98 MA's), (131, 45689),

Gene: VohminGhazi_83 Start: 45555, Stop: 45265, Start Num: 75
Candidate Starts for VohminGhazi_83:
(31, 45699), (36, 45669), (54, 45603), (Start: 58 @45597 has 1 MA's), (Start: 75 @45555 has 14 MA's), (Start: 123 @45513 has 98 MA's), (124, 45510), (Start: 127 @45504 has 1 MA's), (128, 45501), (131, 45492), (150, 45435), (154, 45420),

Gene: WalterMcMickey_83 Start: 48480, Stop: 48184, Start Num: 116
Candidate Starts for WalterMcMickey_83:
(93, 48513), (Start: 116 @48480 has 4 MA's),

Gene: Wander_75 Start: 45641, Stop: 45342, Start Num: 74
Candidate Starts for Wander_75:
(Start: 74 @45641 has 115 MA's), (106, 45599),

Gene: Watermelon_79 Start: 48357, Stop: 48058, Start Num: 104
Candidate Starts for Watermelon_79:
(Start: 82 @48387 has 1 MA's), (Start: 104 @48357 has 185 MA's), (131, 48312), (133, 48309), (157, 48240), (163, 48189),

Gene: Watson_79 Start: 45664, Stop: 45356, Start Num: 94
Candidate Starts for Watson_79:
(Start: 81 @45682 has 34 MA's), (Start: 94 @45664 has 2 MA's), (Start: 123 @45619 has 98 MA's),

Gene: WeiHuaDA_85 Start: 48465, Stop: 48169, Start Num: 99
Candidate Starts for WeiHuaDA_85:
(5, 49035), (22, 48720), (Start: 88 @48480 has 4 MA's), (99, 48465), (Start: 117 @48441 has 3 MA's), (130, 48420), (145, 48378),

Gene: Whabigail7_83 Start: 47920, Stop: 47612, Start Num: 81
Candidate Starts for Whabigail7_83:
(Start: 81 @47920 has 34 MA's), (Start: 84 @47917 has 18 MA's), (124, 47869), (130, 47854), (167, 47695),

Gene: Wheeler_81 Start: 49068, Stop: 48769, Start Num: 104
Candidate Starts for Wheeler_81:
(Start: 104 @49068 has 185 MA's), (131, 49023), (133, 49020), (157, 48951), (163, 48900),

Gene: WideWale_84 Start: 47452, Stop: 47141, Start Num: 81

Candidate Starts for WideWale_84:

(Start: 81 @47452 has 34 MA's), (95, 47440), (Start: 117 @47410 has 3 MA's), (124, 47404), (130, 47389),

Gene: Wiks_83 Start: 45572, Stop: 45309, Start Num: 109

Candidate Starts for Wiks_83:

(23, 45872), (27, 45815), (28, 45812), (33, 45767), (69, 45644), (Start: 109 @45572 has 18 MA's), (Start: 123 @45560 has 98 MA's), (126, 45554), (140, 45515),

Gene: Wilbur_75 Start: 45644, Stop: 45345, Start Num: 74

Candidate Starts for Wilbur_75:

(Start: 74 @45644 has 115 MA's), (106, 45602),

Gene: Wile_73 Start: 45720, Stop: 45427, Start Num: 63

Candidate Starts for Wile_73:

(Start: 50 @45741 has 2 MA's), (Start: 51 @45738 has 12 MA's), (Start: 63 @45720 has 2 MA's), (64, 45717), (77, 45687), (Start: 123 @45675 has 98 MA's), (140, 45636), (150, 45603),

Gene: Wilkins_73 Start: 45402, Stop: 45103, Start Num: 104

Candidate Starts for Wilkins_73:

(67, 45462), (Start: 104 @45402 has 185 MA's), (131, 45357), (133, 45354), (157, 45285), (163, 45234),

Gene: Wizard007_74 Start: 45464, Stop: 45153, Start Num: 51

Candidate Starts for Wizard007_74:

(Start: 50 @45467 has 2 MA's), (Start: 51 @45464 has 12 MA's), (Start: 63 @45446 has 2 MA's), (64, 45443), (77, 45413), (Start: 123 @45401 has 98 MA's), (140, 45362), (150, 45329),

Gene: Wooldri_82 Start: 45536, Stop: 45273, Start Num: 123

Candidate Starts for Wooldri_82:

(Start: 81 @45599 has 34 MA's), (Start: 94 @45581 has 2 MA's), (Start: 123 @45536 has 98 MA's), (131, 45515),

Gene: WunderPhul_84 Start: 45570, Stop: 45307, Start Num: 109

Candidate Starts for WunderPhul_84:

(23, 45870), (27, 45813), (28, 45810), (33, 45765), (69, 45642), (Start: 109 @45570 has 18 MA's), (Start: 123 @45558 has 98 MA's), (140, 45513),

Gene: Xena_73 Start: 45735, Stop: 45418, Start Num: 51

Candidate Starts for Xena_73:

(Start: 50 @45738 has 2 MA's), (Start: 51 @45735 has 12 MA's), (61, 45720), (77, 45684), (Start: 123 @45669 has 98 MA's), (140, 45630), (150, 45597),

Gene: XianYue_82 Start: 47707, Stop: 47390, Start Num: 78

Candidate Starts for XianYue_82:

(12, 48094), (22, 47950), (Start: 78 @47707 has 1 MA's), (114, 47671), (166, 47482),

Gene: Yecey3_88 Start: 47683, Stop: 47417, Start Num: 120

Candidate Starts for Yecey3_88:

(Start: 120 @47683 has 21 MA's), (Start: 129 @47665 has 17 MA's), (135, 47650), (142, 47638), (165, 47509),

Gene: YoSam321_75 Start: 45642, Stop: 45343, Start Num: 74

Candidate Starts for YoSam321_75:

(Start: 74 @45642 has 115 MA's), (106, 45600),

Gene: Yokurt_83 Start: 45572, Stop: 45309, Start Num: 109

Candidate Starts for Yokurt_83:

(23, 45872), (27, 45815), (28, 45812), (33, 45767), (69, 45644), (Start: 109 @45572 has 18 MA's),
(Start: 123 @45560 has 98 MA's), (126, 45554), (140, 45515),

Gene: Zaka_84 Start: 45572, Stop: 45309, Start Num: 109

Candidate Starts for Zaka_84:

(23, 45872), (27, 45815), (28, 45812), (33, 45767), (69, 45644), (Start: 109 @45572 has 18 MA's),
(Start: 123 @45560 has 98 MA's), (126, 45554), (140, 45515),

Gene: Zeeculate_72 Start: 47175, Stop: 46876, Start Num: 104

Candidate Starts for Zeeculate_72:

(Start: 82 @47205 has 1 MA's), (Start: 104 @47175 has 185 MA's), (131, 47130), (133, 47127), (157,
47058), (163, 47007),

Gene: Zephyr_78 Start: 47447, Stop: 47148, Start Num: 104

Candidate Starts for Zephyr_78:

(67, 47507), (Start: 104 @47447 has 185 MA's), (131, 47402), (133, 47399), (157, 47330), (163,
47279),

Gene: Zeuska_78 Start: 48397, Stop: 48113, Start Num: 117

Candidate Starts for Zeuska_78:

(95, 48427), (Start: 117 @48397 has 3 MA's), (124, 48385), (157, 48295), (163, 48244),

Gene: Zimmer_79 Start: 47067, Stop: 46792, Start Num: 112

Candidate Starts for Zimmer_79:

(Start: 112 @47067 has 5 MA's), (126, 47046), (Start: 127 @47043 has 1 MA's), (128, 47040), (135,
47022), (142, 47010),

Gene: Zolita_69 Start: 44339, Stop: 44049, Start Num: 115

Candidate Starts for Zolita_69:

(68, 44417), (96, 44366), (103, 44357), (Start: 110 @44345 has 7 MA's), (Start: 115 @44339 has 1
MA's), (133, 44303), (139, 44291),

Gene: Zulu_85 Start: 45950, Stop: 45687, Start Num: 109

Candidate Starts for Zulu_85:

(23, 46250), (27, 46193), (28, 46190), (33, 46145), (69, 46022), (Start: 109 @45950 has 18 MA's),
(Start: 123 @45938 has 98 MA's), (126, 45932), (140, 45893),