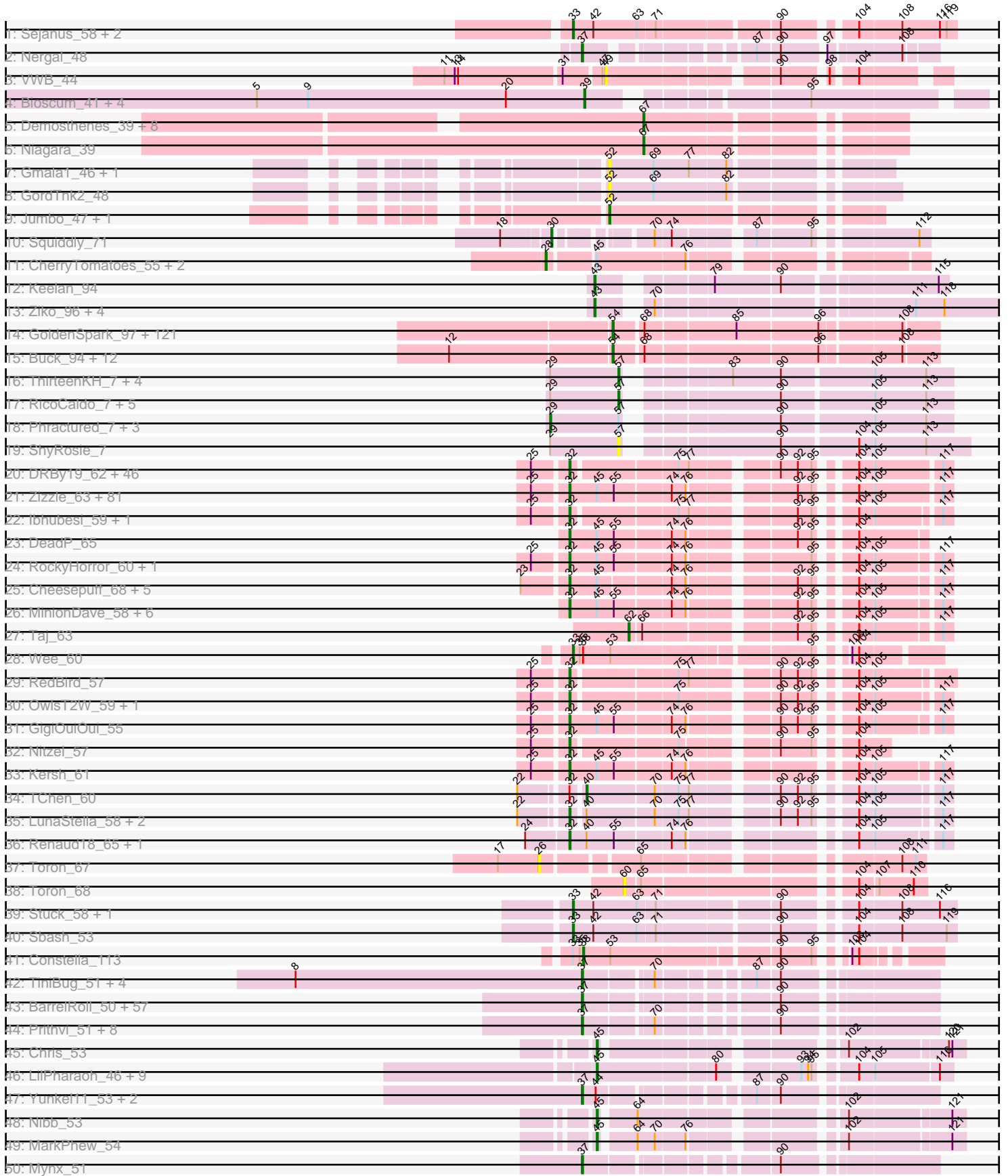
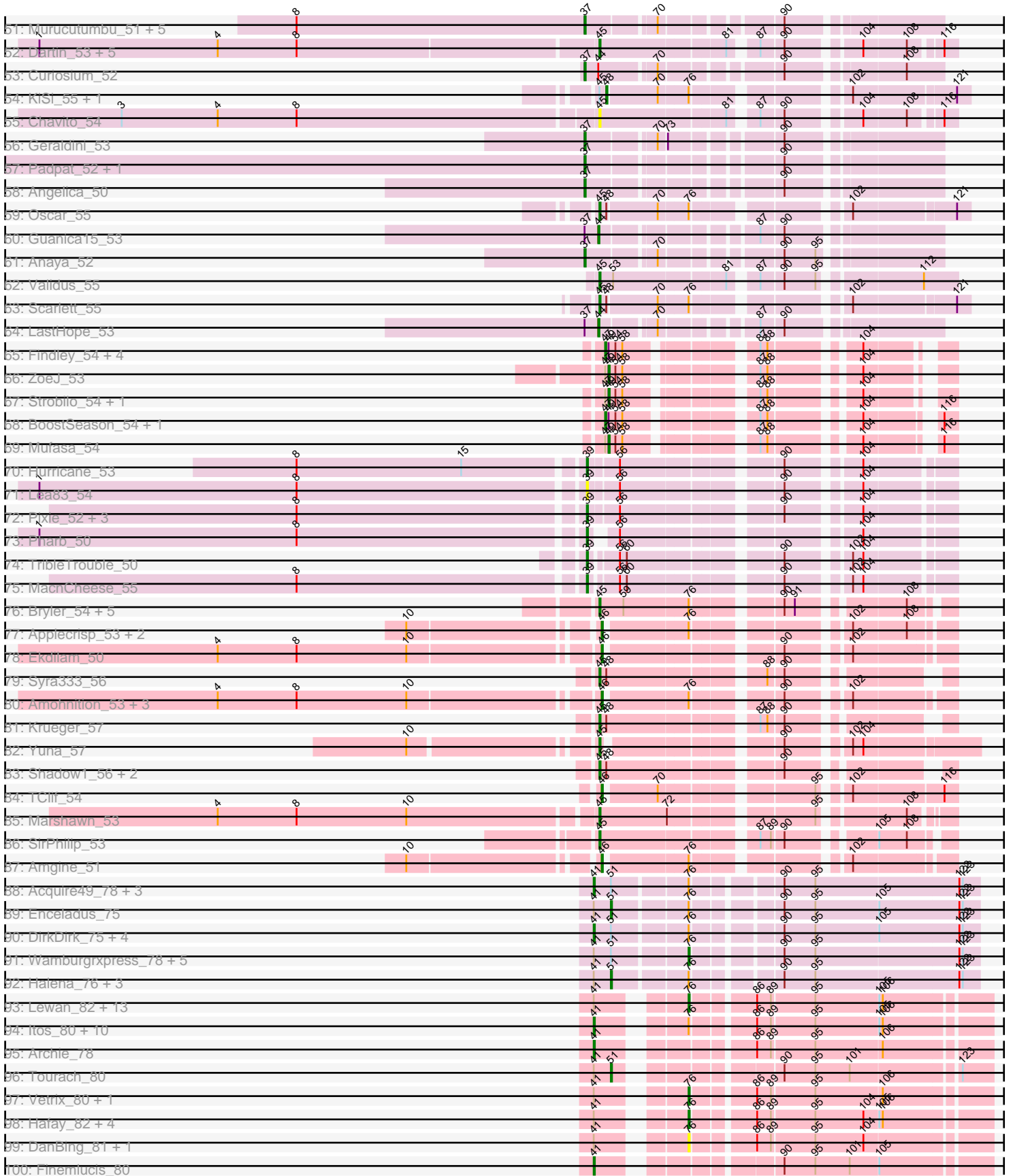


Pham 224136



Pham 224136



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 224136 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224136 has 643 members, 77 are drafts.

Phages represented in each track:

- Track 1 : Sejanus_58, Charlie_44, Journey_43
- Track 2 : Nergal_48
- Track 3 : VWB_44
- Track 4 : Bioscum_41, Lishka_37, PapayaSalad_40, Ididsumtinwong_41, Austintatious_37
- Track 5 : Demosthenes_39, ASerpRocky_40, Kvothe_39, Benczkowski14_39, Teech_40, Tredge_40, Teatealatte_40, Katyusha_39, Hollow_40
- Track 6 : Niagara_39
- Track 7 : Gmala1_46, GordDuk1_47
- Track 8 : GordTnk2_48
- Track 9 : Jumbo_47, GMA3_48
- Track 10 : Squiddly_71
- Track 11 : CherryTomatoes_55, Pupper_53, SCentae_53
- Track 12 : Keelan_94
- Track 13 : Ziko_96, Guey18_98, Volt_97, Ronaldo_96, Fryberger_93
- Track 14 : GoldenSpark_97, Thimble_96, HanKaySha_94, Lilpickle_92, BigBubba_93, Terminus_96, Highbury_92, CrystalP_92, IHOP_91, Cjw1_94, YassJohnny_90, ShamWow_93, Cactus_96, ChosenOne_93, TeardropMSU_89, Inca_90, Youngblood_96, Henry_91, Simpliphy_92, GooberAzure_96, Xandras_92, BilboSwaggins_92, Holt_98, Contagion_89, MadamMonkfish_93, Murica_96, Paperbeatsrock_92, NoSleep_94, Nala_95, Flypotenuse_89, JeTaime_94, Command613_95, OrionPax_92, Lilizi_94, Porky_92, Icee_94, Gemini_98, Kimchi_97, Tarkin_92, Gage_95, ShereKhan_91, Willez_88, Hopey_94, FireRed_97, Dusk_90, Quallification_94, Palpatine_95, FairyPath_93, Stark_95, NelitzaMV_91, Eureka_92, Kanye_90, Hoonter_96, SirDuracell_93, BaboJay_93, Sotrice96_94, Murphy_93, Lilac_96, Goldilocks_96, StolenFromERC_96, Tuco_94, Miniwave_88, Amao_93, MISSy_94, Phrux_91, Glexan_92, Bruin_90, Thresher_96, Bench_96, Becksu_92, Rakim_94, Mosby_89, Marshmallow_91, Misfit_94, 244_94, AmericanBeauty_97, Myrale_93, Manda_95, Teaspoon_94, Nimrod_94, Pumpkin_97, Tomaszewski_88, ABCat_90, Sassay_88, Phaja_91, Goku_92, Argent26_97, BadStone_90, Saints25_92, Asriel_91, SophKB_90, Elph10_94, DrDrey_93, TBrady12_96, PhatBacter_97, Toto_91, HufflyPuff_95, xkcd_96, MPhalcon_94, Harella_93, Dumbo_93, Adnama_97, Traaww1_89, Pharsalus_90, BugsBunny_93, Filch_95, Policronamos_96, StellaBean_91, Wiggin_95, Ukulele_88, Czyszczonek1_94, Mindy_92, Easy2Say_94, Kostya_93, Moldemort_96, Stank_95, Emmina_93, RiverMonster_94, Elite2014_92, Maxxinista_96, Barbarian_92, Phaux_96

- Track 15 : Buck_94, FoghornLeghorn_87, Balomoji_93, Rimmer_91, Bask21_93, DoctorDiddles_92, Gator_91, Cookies_90, Daikon_94, StormChicken_95, Petra64142_98, Pat3_90, ChotaBhai_93
- Track 16 : ThirteenKH_7, Atraxi_7, Yafa_7, TrippleS_7, Morrill_7
- Track 17 : RicoCaldo_7, StagePhright_7, Fullmetal_7, Astartes_7, PhriedRice_7, Moleficent_7
- Track 18 : Phractured_7, Mazun_7, Phedro_7, Pharky_7
- Track 19 : ShyRosie_7
- Track 20 : DRBy19_62, Plumbus_61, Daenerys_53, AlpineSix_64, Job42_61, Pacc40_53, LunaBlu_61, Dorothy_57, KingMidas_58, Avani_67, Seabastian_64, Jinglebell_64, Ochi17_62, Leozinho_58, SimranZ1_59, DosHalletts_61, Stap_57, Modragons_63, Phasih_57, Leperchaun_51, Girr_57, JoeyJr_54, PHappiness_54, Ruby_55, Cornucopia_61, NewHope4_63, LilMoolah_57, Inventum_54, Polo2Bam_64, Doomphist_59, Empress_57, Fastidio_59, Poenanya_59, Estave1_62, Sassafras_57, OfUltron_64, Oksu_63, Spoonbill_56, Llama_64, RitaG_54, DillTech15_56, MisterCuddles_57, Nivrat_55, Galactic_58, Philus_62, Polka14_57, BodEinwohner17_59
- Track 21 : Zizzle_63, Phatniss_57, Llij_55, Rita_60, Scottish_57, Zerg_59, Soul22_65, EleanorGeorge_60, DaddyRickover_58, Mahavrat_57, Koella_53, Mozy_68, Zapner_72, Maravista_60, Radiance_58, Totinger_58, ByChance_51, Rockne_60, James_63, Pippy_57, UncleRicky_58, VRedHorse_59, Chuckly_62, LastJedi_53, Crumble_54, Fancypants_61, ShowerHandel_62, Drago_57, Blexus_57, Strokeseat_55, Karhdo_56, BobaPhett_63, Sabbb_63, Jabbawokkie_73, GUmbie_57, Whouxphf_56, Tootsieroll_60, DirtMcgirt_58, Byougenkin_57, PMC_56, Hlubikazi_55, Blarby_71, Boomer_64, Mattes_63, Firehouse51_60, Mutaforma13_63, Spikelee_66, Burwell21_57, SwagPiggett_64, Pollywog_60, NormanBulbieJr_59, IrishSherpFalk_60, Priscilla_59, Saal_61, BuzzLyseyear_65, Alexphander_63, Doug_61, OlympiaSaint_61, ShroomBoi_61, Mandlovu_55, Yorick_58, Hades_60, WillSterrel_60, Jarcob_59, Violac_62, Latretium_61, Eradicator_52, Martik_59, OldBen_56, KristaRAM_62, Spartacus_61, Gandalph_62, Brocalys_54, ShiLan_58, MadMen_57, Cabrinians_60, Gorge_63, Clifton_54, FreddyB_60, Rialto_65, Lorde_59, Lizziana_65
- Track 22 : lbhubesi_59, Veteran_56
- Track 23 : DeadP_65
- Track 24 : RockyHorror_60, BlueCrab_59
- Track 25 : Cheesepuff_68, MulchExplorer_66, QuickMath_61, Starcevich_59, Kimberlium_62, Cornie_55
- Track 26 : MinionDave_58, SG4_56, Wee_63, Hegedechwinu_59, lbOuu_60, Enby_60, CaptainTrips_56
- Track 27 : Taj_63
- Track 28 : Wee_60
- Track 29 : RedBird_57
- Track 30 : OwlsT2W_59, Grimmer_69
- Track 31 : GigiOuiOui_55
- Track 32 : Nitzel_57
- Track 33 : Kersh_61
- Track 34 : TChen_60
- Track 35 : LunaStella_58, Yoshi_72, ThetaBob_64
- Track 36 : Renaud18_65, Demsculpinboyz_70
- Track 37 : Toron_67
- Track 38 : Toron_68
- Track 39 : Stuck_58, Shweta_42
- Track 40 : Sbash_53

- Track 41 : Constella_113
- Track 42 : TiniBug_51, SamuelLPlaqson_51, DrHayes_51, Bella96_51, Urkel_51
- Track 43 : BarrelRoll_50, MacKat_45, AlishaPH_50, BaghaKamala_49, Bern_51, Atiba_51, Adephagia_50, Veliki_51, Beezoo_52, JAWS_50, Jeckyll_50, MeaningOfLife_51, Ramen_51, ActinUp_50, Hyperbowlee_50, CREW_50, Slimphazie_50, TruffulaTree_50, Zavala_52, Adonis_50, CallaLilly_52, Capricorn_50, Spock_50, QuincyRose_49, Clipper_54, Durfee_50, Sulley_50, Tachez_50, Jayhawk_51, Rapunzel97_51, CaseJules_52, Topper_50, Dalmuri_50, Asayake_50, Rosmarinus_50, Apocalypse_53, Joy99_50, CheetoDust_49, Blizzard_50, Zabiza_45, Belladonna_50, Homura_50, Lunahalos_50, TaiwanKao_52, HedwigODU_50, Peel_50, Llorens_50, Padfoot_50, YoureAdopted_49, Boiiii_50, BGIlluviae_50, BEEST_50, Inky_50, Ganymede_51, Piatt_50, ShiaSurprise_51, Jarvi_50, Twitch_50
- Track 44 : Prithvi_51, CrimD_50, LaterM_51, Megsy_52, LindNT_49, TreyKay_51, Deby_50, Tiri_51, Pokerus_49
- Track 45 : Chris_53
- Track 46 : LilPharaoh_46, Mdavu_47, SgtBeansprout_46, Enkosi_48, Nutello_46, Amelie_46, Teejan_48, Binglebops_46, Torres_48, Nikao_49
- Track 47 : Yunkel11_53, Efra2_53, TingHuaYa_51
- Track 48 : Nibb_53
- Track 49 : MarkPhew_54
- Track 50 : Mynx_51
- Track 51 : Murucutumbu_51, Illumine_53, Dole_53, Ageofdapage_52, Devera_55, Stinson_51
- Track 52 : Dartin_53, Shaobing_53, Peanam_53, Richo_53, McMater_53, Niklas_53
- Track 53 : Curiosium_52
- Track 54 : KiSi_55, LeMond_55
- Track 55 : Chavito_54
- Track 56 : Geraldini_53
- Track 57 : Padpat_52, Emerson_51
- Track 58 : Angelica_50
- Track 59 : Oscar_55
- Track 60 : Guanica15_53
- Track 61 : Anaya_52
- Track 62 : Validus_55
- Track 63 : Scarlett_55
- Track 64 : LastHope_53
- Track 65 : Findley_54, DismalStressor_54, DismalFunk_54, Milly_54, Marcoliusprime_54
- Track 66 : ZoeJ_53
- Track 67 : Strobilo_54, TM4_49
- Track 68 : BoostSeason_54, Doughnut_55
- Track 69 : Mufasa_54
- Track 70 : Hurricane_53
- Track 71 : Lea83_54
- Track 72 : Pixie_52, Keshu_55, TBond007_51, ShedlockHolmes_54
- Track 73 : Pharb_50
- Track 74 : TribbleTrouble_50
- Track 75 : MacnCheese_55
- Track 76 : Bryler_54, Cain_54, Tierra_54, PhelpsODU_53, Phrank_54, Unicorn_53
- Track 77 : Applecrisp_53, Fefferhead_51, Ellie_49
- Track 78 : Ekdilam_50
- Track 79 : Syra333_56

- Track 80 : Amohnition_53, DarthP_53, Hammy_53, November_53
- Track 81 : Krueger_57
- Track 82 : Yuna_57
- Track 83 : Shadow1_56, Sunflower1121_57, Ximenita_57
- Track 84 : TClif_54
- Track 85 : Marshawn_53
- Track 86 : SirPhilip_53
- Track 87 : Amgine_51
- Track 88 : Acquire49_78, MAckerman_76, Zaria_79, Wyatt2_79
- Track 89 : Enceladus_75
- Track 90 : DirkDirk_75, OhShagHennessy_75, JoeDirt_78, Appletree2_77, Poochiewood_76
- Track 91 : Wamburgrxpress_78, LeBron_77, CicholasNage_75, UPIE_77, AvadaKedavra_78, Rose5_78
- Track 92 : Halena_76, Calm_80, Tyson_79, Silverleaf_78
- Track 93 : Lewan_82, Crossroads_81, Soap141_81, Gabriela_80, Underpass_72, Loadrie_80, Nicholasp3_81, Netyap_82, BobsGarage_81, DrSeegs_81, SoJulia_83, Sarshaun_82, GuuelaD_79, BigCheese_81
- Track 94 : Itos_80, Breezona_81, Gardann_81, MkaliMitinis3_82, Winky_81, Miley16_81, Faith1_81, Zakai_82, Wilder_82, Rumpelstiltskin_78, Kahlid_81
- Track 95 : Archie_78
- Track 96 : Tourach_80
- Track 97 : Vatrix_80, LilDestine_80
- Track 98 : Hafay_82, ZhongYanYuan_78, Wigglewiggle_80, DHan_84, Claus_81
- Track 99 : DanBing_81, Baoshan_78
- Track 100 : Finemlucis_80
- Track 101 : Bazzle_78
- Track 102 : Whirlwind_80, Krypton555_80
- Track 103 : Nicholas_77, Clautastrophe_77, Kingsolomon_77, Snenia_78, Finnry_79, Jobypre_79, MsGreen_79, Jubie_78
- Track 104 : Lolly9_78, MiniMac_83
- Track 105 : Ellson_78, KirDoubleO7_77, BourbonZero_80, LiyuLake_78
- Track 106 : Moostard_77, TriFive_79, Red305_80, Bellis_77, Samty_78
- Track 107 : DuncansLeg_79
- Track 108 : MiniLon_83
- Track 109 : Quby_79
- Track 110 : Kropertea_75, DyoEdafos_83
- Track 111 : Douge_78
- Track 112 : PYPDinur_78, BrainDrainer_79
- Track 113 : Sheng711_80
- Track 114 : Chaser_77
- Track 115 : FarmResident_80
- Track 116 : Douzhi_79
- Track 117 : Bromden_79
- Track 118 : Aegeus_88, Baudelaire_88
- Track 119 : SkinnyPete_42
- Track 120 : Daegal_77
- Track 121 : HH92_74, Amymech_75, Webster2_75, OBUpride_74, Giles_68, Hadrien_72, LilHazelNut_75, Ubuntu_75, DeepSoil15_75, Luke_72, Amochick_76, Dewey_68, Hail_68, Gravailia_69, Evanesce_74, Ein37_75, Luna22_68, Kinbote_73
- Track 122 : Gancho_74
- Track 123 : Forge_68, Wishmaker_68
- Track 124 : Ibrahim_41, Nairb_40, ZenTime222_40, Bernal13_41, RonRayGun_41

- Track 125 : Mendokysei_39
- Track 126 : Nette_42
- Track 127 : IdentityCrisis_42
- Track 128 : Reynauld_48
- Track 129 : Chymera_48
- Track 130 : Footloose_55
- Track 131 : DocB7_034
- Track 132 : Mbo2_39
- Track 133 : Trogglehumper_64

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

The start number called the most often in the published annotations is 32, it was called in 148 of the 566 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_63, AlpineSix_64, Avani_67, Blarby_71, Blexus_57, BlueCrab_59, BobaPhett_63, BodEinwohner17_59, Boomer_64, Brocalys_54, Burwell21_57, BuzzLyseyear_65, ByChance_51, Byougenkin_57, Cabrinians_60, CaptainTrips_56, CheesePuff_68, Chuckly_62, Clifton_54, Cornie_55, Cornucopia_61, Crumble_54, DRBy19_62, DaddyRickover_58, Daenerys_53, DeadP_65, Demsculpinboyz_70, DillTech15_56, DirtMcgirt_58, Doomphist_59, Dorothy_57, DosHalletts_61, Doug_61, Drago_57, EleanorGeorge_60, Empress_57, Enby_60, Eradicator_52, Estave1_62, Fancypants_61, Fastidio_59, Firehouse51_60, FreddyB_60, GUmBie_57, Galactic_58, Gandolph_62, GigiOuiOui_55, Girr_57, Gorge_63, Grimmer_69, Hades_60, Hegedechwinu_59, Hlubikazi_55, IbOuu_60, Ibhubesi_59, Inventum_54, IrishSherpFalk_60, Jabbawokkie_73, James_63, Jarcob_59, Jinglebell_64, Job42_61, JoeyJr_54, Karhdo_56, Kersh_61, Kimberlium_62, KingMidas_58, Koella_53, KristaRAM_62, LastJedi_53, Latretium_61, Leozinho_58, Leperchaun_51, LilMoolah_57, Lizziana_65, Llama_64, Llij_55, Lorde_59, LunaBlu_61, LunaStella_58, MadMen_57, Mahavrat_57, Mandlovu_55, Maravista_60, Martik_59, Mattes_63, MinionDave_58, MisterCuddles_57, Modragons_63, Mozy_68, MulchExplorer_66, Mutaforma13_63, NewHope4_63, Nitzel_57, Nivrat_55, NormanBulbieJr_59, Ochi17_62, OfUltron_64, Oksu_63, OldBen_56, OlympiaSaint_61, OwlsT2W_59, PHappiness_54, PMC_56, Pacc40_53, Phasih_57, Phatniss_57, Philus_62, Pippy_57, Plumbus_61, Poenanya_59, Polka14_57, Pollywog_60, Polo2Bam_64, Priscilla_59, QuickMath_61, Radiance_58, RedBird_57, Renaud18_65, Rialto_65, RitaG_54, Rita_60, Rockne_60, RockyHorror_60, Ruby_55, SG4_56, Saal_61, Sabbb_63, Sassafras_57, Scottish_57, Sebastian_64, ShiLan_58, ShowerHandel_62, ShroomBoi_61, SimranZ1_59, Soul22_65, Spartacus_61, Spikelee_66, Spoonbill_56, Stap_57, Starcevich_59, StrokeSeat_55, SwagPiggett_64, ThetaBob_64, Tootsieroll_60, Totinger_58, UncleRicky_58, VRedHorse_59, Veteran_56, Violac_62, Wee_63, Whouxphf_56, WillSterrel_60, Yorick_58, Yoshi_72, Zapner_72, Zerg_59, Zizzle_63,

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

- TChen_60,

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

• 244_94, ABCat_90, ASerpRocky_40, Acquire49_78, ActinUp_50, Adephagia_50, Adnama_97, Adonis_50, Aegeus_88, Ageofdapage_52, AlishaPH_50, Amao_93, Amelie_46, AmericanBeauty_97, Amgine_51, Amochick_76, Amohnton_53, Amymech_75, Anaya_52, Angelica_50, Apocalypse_53, Applecrisp_53, Appletree2_77, Archie_78, Argent26_97, Asayake_50, Asriel_91, Astartes_7, Atiba_51, Atraxi_7, Austintatious_37, AvadaKedavra_78, BEEST_50, BGIlluviae_50, BaboJay_93, BadStone_90, BaghaKamala_49, Balomoji_93, Baoshan_78, Barbarian_92, BarrelRoll_50, Bask21_93, Baudelaire_88, Bazzle_78, Becksu_92, Beezoo_52, Bella96_51, Belladonna_50, Bellis_77, Bench_96, Benczkowski14_39, Bern_51, Bernal13_41, BigBubba_93, BigCheese_81, Biglebops_46, BilboSwaggins_92, Bioscum_41, Blizzard_50, BobsGarage_81, Boiiii_50, BoostSeason_54, BourbonZero_80, BrainDrainer_79, Breezona_81, Bromden_79, Bruin_90, Bryler_54, Buck_94, BugsBunny_93, CREW_50, Cactus_96, Cain_54, CallaLilly_52, Calm_80, Capricorn_50, CaseJules_52, Charlie_44, Chaser_77, Chavito_54, CheetoDust_49, CherryTomatoes_55, ChosenOne_93, ChotaBhai_93, Chris_53, Chymera_48, CicholasNage_75, Cjw1_94, Claus_81, Clautastrophe_77, Clipper_54, Command613_95, Constella_113, Contagion_89, Cookies_90, CrimD_50, Crossroads_81, CrystalP_92, Curiosium_52, Czyszczone1_94, DHan_84, Daegal_77, Daikon_94, Dalmuri_50, DanBing_81, DarthP_53, Dartin_53, Deby_50, DeepSoil15_75, Demosthenes_39, Devera_55, Dewey_68, DirkDirk_75, DismalFunk_54, DismalStressor_54, DocB7_034, DoctorDiddles_92, Dole_53, Douge_78, Doughnut_55, Douzhi_79, DrDrey_93, DrHayes_51, DrSeegs_81, Dumbo_93, DuncansLeg_79, Durfee_50, Dusk_90, DyoEdafos_83, Easy2Say_94, Efra2_53, Ein37_75, Ekdilam_50, Elite2014_92, Ellie_49, Ellson_78, Elph10_94, Emerson_51, Emmina_93, Enceladus_75, Enkosi_48, Eureka_92, Evanesce_74, FairyPath_93, Faith1_81, FarmResident_80, Fefferhead_51, Filch_95, Findley_54, Finemlucis_80, Finrny_79, FireRed_97, Flypotenuse_89, FoghornLeghorn_87, Footloose_55, Forge_68, Fryberger_93, Fullmetal_7, GMA3_48, Gabriela_80, Gage_95, Gancho_74, Ganymede_51, Gardann_81, Gator_91, Gemini_98, Geraldini_53, Giles_68, Glexan_92, Gmala1_46, Goku_92, GoldenSpark_97, Goldilocks_96, GooberAzure_96, GordDuk1_47, GordTnk2_48, Gravallia_69, Guanica15_53, Guey18_98, GuuelaD_79, HH92_74, Hadrien_72, Hafay_82, Hail_68, Halena_76, Hammy_53, HanKaySha_94, Harella_93, HedwigODU_50, Henry_91, Highbury_92, Hollow_40, Holt_98, Homura_50, Hoonter_96, Hopey_94, HufflyPuff_95, Hurricane_53, Hyperbowlee_50, IHOP_91, Ibrahim_41, Icee_94, IdentityCrisis_42, Ididsumtinwong_41, Illumine_53, Inca_90, Inky_50, Itos_80, JAWS_50, Jarvi_50, Jayhawk_51, JeTaima_94, Jeckyll_50, Jobypre_79, JoeDirt_78, Journey_43, Joy99_50, Jubie_78, Jumbo_47, Kahlid_81, Kanye_90, Katyusha_39, Keelan_94, Keshu_55, KiSi_55, Kimchi_97, Kinbote_73, Kingsolomon_77, KirDoubleO7_77, Kostya_93, Kropertea_75, Krueger_57, Krypton555_80, Kvothe_39, LastHope_53, LaterM_51, LeBron_77, LeMond_55, Lea83_54, Lewan_82, LilDestine_80, LilHazelNut_75, LilPharaoh_46, Lilac_96, Lilizi_94, Lilpickle_92, LindNT_49, Lishka_37, LiyuLake_78, Llorens_50, Loadrie_80, Lolly9_78, Luke_72, Luna22_68, Lunahalos_50, MAckerman_76, MISSy_94, MPhalcon_94, MacKat_45, MacnCheese_55, MadamMonkfish_93, Manda_95, Marcoliusprime_54, MarkPhew_54, Marshawn_53, Marshmallow_91, Maxxinista_96, Mazun_7, Mbo2_39, McMater_53, Mdavu_47, MeaningOfLife_51, Megsy_52, Mendokysei_39, Miley16_81, Milly_54, Mindy_92, MiniLon_83, MiniMac_83, Miniwave_88, Misfit_94, MkaliMitinis3_82, Moldemort_96, Moleficent_7, Moostard_77, Morrill_7, Mosby_89, MsGreen_79, Mufasa_54, Murica_96, Murphy_93, Murucutumbu_51, Mynx_51, Myrale_93, Nairb_40, Nala_95, NelitzaMV_91, Nergal_48, Nette_42, Netyap_82, Niagara_39, Nibb_53, Nicholas_77, Nicholasp3_81, Nikao_49, Niklas_53, Nimrod_94, NoSleep_94, November_53, Nutello_46, OBUpride_74,

OhShagHennessy_75, OrionPax_92, Oscar_55, PYPDinur_78, Padfoot_50, Padpat_52, Palpatine_95, PapayaSalad_40, Paperbeatsrock_92, Pat3_90, Peanam_53, Peel_50, Petra64142_98, Phaja_91, Pharb_50, Pharky_7, Pharsalus_90, PhatBacter_97, Phaux_96, Phedro_7, PhelpsODU_53, Phracted_7, Phrank_54, PhriedRice_7, Phrux_91, Piatt_50, Pixie_52, Pokerus_49, Policronamos_96, Poochiewood_76, Porky_92, Prithvi_51, Pumpkin_97, Pupper_53, Quallification_94, Quby_79, QuincyRose_49, Rakim_94, Ramen_51, Rapunzel97_51, Red305_80, Reynauld_48, Richo_53, RicoCaldo_7, Rimmer_91, RiverMonster_94, RonRayGun_41, Ronaldo_96, Rose5_78, Rosmarinus_50, Rumpelstiltskin_78, SCentae_53, Saints25_92, Samty_78, SamuelLPlaqson_51, Sarshaun_82, Sassay_88, Sbash_53, Scarlett_55, Sejanus_58, SgtBeansprout_46, Shadow1_56, ShamWow_93, Shaobing_53, ShedlockHolmes_54, Sheng711_80, ShereKhan_91, ShiaSurprise_51, Shweta_42, ShyRosie_7, Silverleaf_78, Simpliphy_92, SirDuracell_93, SirPhilip_53, SkinnyPete_42, Slimphazie_50, Snenia_78, SoJulia_83, Soap141_81, SophKB_90, Sotrice96_94, Spock_50, Squiddly_71, StagePhright_7, Stank_95, Stark_95, StellaBean_91, Stinson_51, StolenFromERC_96, StormChicken_95, Strobilo_54, Stuck_58, Sulley_50, Sunflower1121_57, Syra333_56, TBond007_51, TBrady12_96, TClif_54, TM4_49, Tachez_50, TaiwanKao_52, Taj_63, Tarkin_92, TeardropMSU_89, Teaspoon_94, Teatealatte_40, Teech_40, Teejan_48, Terminus_96, Thimble_96, ThirteenKH_7, Thresher_96, Tierra_54, TingHuaYa_51, TiniBug_51, Tiri_51, Tomaszewski_88, Topper_50, Toron_67, Toron_68, Torres_48, Toto_91, Tourach_80, Traaww1_89, Tredge_40, TreyKay_51, TriFive_79, TribbleTrouble_50, TrippleS_7, Trogglehumper_64, TruffulaTree_50, Tuco_94, Twitch_50, Tyson_79, UPIE_77, Ubuntu_75, Ukulele_88, Underpass_72, Unicorn_53, Urkel_51, VWB_44, Validus_55, Veliki_51, Vetrix_80, Volt_97, Wamburggrxpress_78, Webster2_75, Wee_60, Whirlwind_80, Wiggin_95, Wigglewiggles_80, Wilder_82, Willez_88, Winky_81, Wishmaker_68, Wyatt2_79, Xandras_92, Ximenita_57, Yafa_7, YassJohnny_90, Youngblood_96, YoureAdopted_49, Yuna_57, Yunkel11_53, Zabiza_45, Zakai_82, Zaria_79, Zavala_52, ZenTime222_40, ZhongYanYuan_78, Ziko_96, ZoeJ_53, xkcd_96,

Summary by start number:

Start 21:

- Found in 22 of 643 (3.4%) of genes in pham
- Manual Annotations of this start: 20 of 566
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Amochick_76 (Q), Amymech_75 (Q), Daegal_77 (Q), DeepSoil15_75 (Q), Dewey_68 (Q), Ein37_75 (Q), Evanesce_74 (Q), Gancho_74 (Q), Giles_68 (Q), Gravaillia_69 (Q), HH92_74 (Q), Hadrien_72 (Q), Hail_68 (Q), Kinbote_73 (Q), LilHazelNut_75 (Q), Luke_72 (Q), Luna22_68 (Q), OBUpride_74 (Q), Ubuntu_75 (Q), Webster2_75 (Q),

Start 26:

- Found in 1 of 643 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toron_67 (F6),

Start 27:

- Found in 22 of 643 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 566
- Called 9.1% of time when present

- Phage (with cluster) where this start called: Forge_68 (Q), Wishmaker_68 (Q),

Start 28:

- Found in 3 of 643 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 566
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes_55 (DO), Pupper_53 (DO), SCentae_53 (DO),

Start 29:

- Found in 16 of 643 (2.5%) of genes in pham
- Manual Annotations of this start: 4 of 566
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Mazun_7 (EK2), Pharky_7 (EK2), Phedro_7 (EK2), Phracted_7 (EK2),

Start 30:

- Found in 1 of 643 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 566
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Squiddly_71 (DN2),

Start 32:

- Found in 159 of 643 (24.7%) of genes in pham
- Manual Annotations of this start: 148 of 566
- Called 99.4% of time when present
- Phage (with cluster) where this start called: Alexphander_63 (F1), AlpineSix_64 (F1), Avani_67 (F2), Blarby_71 (F), Blexus_57 (F1), BlueCrab_59 (F1), BobaPhett_63 (F1), BodEinwohner17_59 (F1), Boomer_64 (F1), Brocalys_54 (F1), Burwell21_57 (F1), BuzzLyseyear_65 (F1), ByChance_51 (F1), Byougenkin_57 (F1), Cabrinians_60 (F1), CaptainTrips_56 (F1), CheesePuff_68 (F1), Chuckly_62 (F1), Clifton_54 (F1), Cornie_55 (F5), Cornucopia_61 (F1), Crumble_54 (F1), DRBy19_62 (F1), DaddyRickover_58 (F1), Daenerys_53 (F1), DeadP_65 (F1), Demsculpinboyz_70 (F2), DillTech15_56 (F1), DirtMcgirt_58 (F1), Doomphist_59 (F1), Dorothy_57 (F1), DosHalletts_61 (F1), Doug_61 (F1), Drago_57 (F1), EleanorGeorge_60 (F1), Empress_57 (F1), Enby_60 (F1), Eradicator_52 (F1), Estave1_62 (F1), Fancypants_61 (F1), Fastidio_59 (F1), Firehouse51_60 (F1), FreddyB_60 (F1), GUmbie_57 (F1), Galactic_58 (F1), Gandolph_62 (F1), GigiOuiOui_55 (F1), Girr_57 (F1), Gorge_63 (F1), Grimmer_69 (F1), Hades_60 (F1), Hegedechwinu_59 (F1), Hlubikazi_55 (F1), IbOuu_60 (F1), Ibhubesi_59 (F1), Inventum_54 (F1), IrishSherpFalk_60 (F1), Jabbawokkie_73 (F2), James_63 (F1), Jarcob_59 (F1), Jinglebell_64 (F1), Job42_61 (F1), JoeyJr_54 (F1), Karhdo_56 (F1), Kersh_61 (F1), Kimberlium_62 (F1), KingMidas_58 (F1), Koella_53 (F1), KristaRAM_62 (F1), LastJedi_53 (F1), Latretium_61 (F1), Leozinho_58 (F1), Leperchaun_51 (F1), LilMoolah_57 (F1), Lizziana_65 (F1), Llama_64 (F1), Llij_55 (F1), Lorde_59 (F1), LunaBlu_61 (F1), LunaStella_58 (F4), MadMen_57 (F1), Mahavrat_57 (F1), Mandlovu_55 (F1), Maravista_60 (F1), Martik_59 (F1), Mattes_63 (F1), MinionDave_58 (F1), MisterCuddles_57 (F1), Modragons_63 (F1), Mozy_68 (F1), MulchExplorer_66 (F1), Mutaforma13_63 (F1), NewHope4_63 (F1), Nitzel_57 (F1), Nivrat_55 (F1), NormanBulbieJr_59 (F1), Ochi17_62 (F1), OfUltron_64 (F1), Oksu_63 (F1), OldBen_56 (F1), OlympiaSaint_61 (F1), OwlsT2W_59 (F1), PHappiness_54 (F1), PMC_56 (F1), Pacc40_53 (F1), Phasih_57 (F1), Phatniss_57 (F1), Philus_62 (F1), Pippy_57 (F1), Plumbus_61 (F1), Poenanya_59 (F1), Polka14_57 (F1),

Pollywog_60 (F1), Polo2Bam_64 (F1), Priscilla_59 (F1), QuickMath_61 (F1), Radiance_58 (F1), RedBird_57 (F1), Renaud18_65 (F4), Rialto_65 (F1), RitaG_54 (F1), Rita_60 (F1), Rockne_60 (F1), RockyHorror_60 (F1), Ruby_55 (F1), SG4_56 (F1), Saal_61 (F1), Sabbb_63 (F1), Sassafras_57 (F1), Scottish_57 (F1), Seabastian_64 (F1), ShiLan_58 (F1), ShowerHandel_62 (F1), ShroomBoi_61 (F1), SimranZ1_59 (F1), Soul22_65 (F2), Spartacus_61 (F1), Spikelee_66 (F1), Spoonbill_56 (F1), Stap_57 (F1), Starceвич_59 (F1), Strokeseat_55 (F1), SwagPiggett_64 (F1), ThetaBob_64 (F4), Tootsieroll_60 (F1), Totinger_58 (F1), UncleRicky_58 (F1), VRedHorse_59 (F1), Veteran_56 (F1), Violac_62 (F1), Wee_63 (F1), Whouxphf_56 (F1), WillSterrel_60 (F1), Yorick_58 (F1), Yoshi_72 (F2), Zapner_72 (F2), Zerg_59 (F1), Zizzle_63 (F1),

Start 33:

- Found in 9 of 643 (1.4%) of genes in pham
- Manual Annotations of this start: 6 of 566
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Charlie_44 (N), Journey_43 (N), Sbash_53 (I2), Sejanus_58 (AD), Shweta_42 (N), Stuck_58 (I2), Wee_60 (F1),

Start 34:

- Found in 1 of 643 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 566
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chymera_48 (singleton),

Start 36:

- Found in 1 of 643 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 566
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Footloose_55 (singleton),

Start 37:

- Found in 91 of 643 (14.2%) of genes in pham
- Manual Annotations of this start: 83 of 566
- Called 97.8% of time when present
- Phage (with cluster) where this start called: ActinUp_50 (K1), Adephegia_50 (K1), Adonis_50 (K1), Ageofdapage_52 (K1), AlishaPH_50 (K1), Anaya_52 (K1), Angelica_50 (K1), Apocalypse_53 (K1), Asayake_50 (K1), Atiba_51 (K1), BEEST_50 (K1), BGlluviae_50 (K1), BaghaKamala_49 (K1), BarrelRoll_50 (K1), Beezoo_52 (K1), Bella96_51 (K1), Belladonna_50 (K1), Bern_51 (K1), Blizzard_50 (K1), Boiiii_50 (K1), CREW_50 (K1), CallaLilly_52 (K1), Capricorn_50 (K1), CaseJules_52 (K1), CheetoDust_49 (K1), Clipper_54 (K1), CrimD_50 (K1), Curiosium_52 (K1), Dalmuri_50 (K1), Deby_50 (K1), Devera_55 (K1), Dole_53 (K1), DrHayes_51 (K1), Durfee_50 (K1), Efra2_53 (K1), Emerson_51 (K1), Ganymede_51 (K1), Geraldini_53 (K1), HedwigODU_50 (K1), Homura_50 (K1), Hyperbowlee_50 (K1), Illumine_53 (K1), Inky_50 (K1), JAWS_50 (K1), Jarvi_50 (K1), Jayhawk_51 (K1), Jeckyll_50 (K1), Joy99_50 (K1), LaterM_51 (K1), LindNT_49 (K1), Llorens_50 (K1), Lunahalos_50 (K1), MacKat_45 (K1), MeaningOfLife_51 (K1), Megsy_52 (K1), Murucutumbu_51 (K1), Mynx_51 (K1), Nergal_48 (AG), Padfoot_50 (K1), Padpat_52 (K1), Peel_50 (K1), Piatt_50 (K1), Pokerus_49 (K1), Prithvi_51 (K1), QuincyRose_49 (K1), Ramen_51 (K1), Rapunzel97_51 (K1), Rosmarinus_50 (K1), SamuelLPlaqson_51 (K1), ShiaSurprise_51 (K1), Slimphazie_50 (K1), Spock_50 (K1), Stinson_51 (K1), Sulley_50 (K1), Tachez_50 (K1), TaiwanKao_52 (K1), TingHuaYa_51 (K1),

TiniBug_51 (K1), Tiri_51 (K1), Topper_50 (K1), TreyKay_51 (K1), TruffulaTree_50 (K1), Twitch_50 (K1), Urkel_51 (K1), Veliki_51 (K1), YoureAdopted_49 (K1), Yunkel11_53 (K1), Zabiza_45 (K1), Zavala_52 (K1),

Start 38:

- Found in 10 of 643 (1.6%) of genes in pham
- Manual Annotations of this start: 7 of 566
- Called 70.0% of time when present
- Phage (with cluster) where this start called: Bernal13_41 (T), Constella_113 (J), Ibrahim_41 (T), Mendokysej_39 (T), Nairb_40 (T), RonRayGun_41 (T), ZenTime222_40 (T),

Start 39:

- Found in 37 of 643 (5.8%) of genes in pham
- Manual Annotations of this start: 12 of 566
- Called 37.8% of time when present
- Phage (with cluster) where this start called: Austintatious_37 (BC3), Bioscum_41 (BC3), Hurricane_53 (K3), Ididsumtinwong_41 (BC3), Keshu_55 (K3), Lea83_54 (K3), Lishka_37 (BC3), MacnCheese_55 (K3), PapayaSalad_40 (BC3), Pharb_50 (K3), Pixie_52 (K3), ShedlockHolmes_54 (K3), TBond007_51 (K3), TribbleTrouble_50 (K3),

Start 40:

- Found in 6 of 643 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 566
- Called 16.7% of time when present
- Phage (with cluster) where this start called: TChen_60 (F4),

Start 41:

- Found in 81 of 643 (12.6%) of genes in pham
- Manual Annotations of this start: 34 of 566
- Called 43.2% of time when present
- Phage (with cluster) where this start called: Acquire49_78 (L1), Appletree2_77 (L1), Archie_78 (L2), Bazzle_78 (L2), Breezona_81 (L2), Clautastrophe_77 (L3), DirkDirk_75 (L1), DuncansLeg_79 (L3), Faith1_81 (L2), Finemlucis_80 (L2), Finnry_79 (L3), Gardann_81 (L2), Itos_80 (L2), Jobypre_79 (L3), JoeDirt_78 (L1), Jubie_78 (L3), Kahlid_81 (L2), Kingsolomon_77 (L3), Krypton555_80 (L3), MAckerman_76 (L1), Miley16_81 (L2), MiniLon_83 (L3), MkaliMitinis3_82 (L2), MsGreen_79 (L3), Nicholas_77 (L3), OhShagHennessy_75 (L1), Poochiewood_76 (L1), Rumpelstiltskin_78 (L2), Snenia_78 (L3), Whirlwind_80 (L3), Wilder_82 (L2), Winky_81 (L2), Wyatt2_79 (L1), Zakai_82 (L2), Zaria_79 (L1),

Start 43:

- Found in 18 of 643 (2.8%) of genes in pham
- Manual Annotations of this start: 10 of 566
- Called 94.4% of time when present
- Phage (with cluster) where this start called: BrainDrainer_79 (L4), Bromden_79 (L4), Chaser_77 (L4), Douge_78 (L4), Douzhi_79 (L4), DyoEdafos_83 (L4), FarmResident_80 (L4), Fryberger_93 (DP), Guey18_98 (DP), Keelan_94 (DP), Kropertea_75 (L4), PYPDinur_78 (L4), Quby_79 (L4), Ronaldo_96 (DP), Sheng711_80 (L4), Volt_97 (DP), Ziko_96 (DP),

Start 44:

- Found in 6 of 643 (0.9%) of genes in pham

- Manual Annotations of this start: 2 of 566
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Guanica15_53 (K1), LastHope_53 (K1),

Start 45:

- Found in 143 of 643 (22.2%) of genes in pham
- Manual Annotations of this start: 31 of 566
- Called 25.9% of time when present
- Phage (with cluster) where this start called: Amelie_46 (K1), Binglebops_46 (K1), Bryler_54 (K6), Cain_54 (K6), Chavito_54 (K1), Chris_53 (K1), Dartin_53 (K1), Enkosi_48 (K1), Krueger_57 (K6), LilPharaoh_46 (K1), MarkPheW_54 (K1), Marshawn_53 (K6), McMater_53 (K1), Mdavu_47 (K1), Nibb_53 (K1), Nikao_49 (K1), Niklas_53 (K1), Nutello_46 (K1), Oscar_55 (K1), Peanam_53 (K1), PhelpsODU_53 (K6), Phrank_54 (K6), Richo_53 (K1), Scarlett_55 (K1), SgtBeansprout_46 (K1), Shadow1_56 (K6), Shaobing_53 (K1), SirPhilip_53 (K6), Sunflower1121_57 (K6), Syra333_56 (K6), Teejan_48 (K1), Tierra_54 (K6), Torres_48 (K1), Unicorn_53 (K6), Validus_55 (K1), Ximenita_57 (K6), Yuna_57 (K6),

Start 46:

- Found in 10 of 643 (1.6%) of genes in pham
- Manual Annotations of this start: 8 of 566
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amgine_51 (K6), Amohntion_53 (K6), Applecrisp_53 (K6), DarthP_53 (K6), Ekdilam_50 (K6), Ellie_49 (K6), Fefferhead_51 (K6), Hammy_53 (K6), November_53 (K6), TClif_54 (K6),

Start 47:

- Found in 12 of 643 (1.9%) of genes in pham
- Manual Annotations of this start: 6 of 566
- Called 58.3% of time when present
- Phage (with cluster) where this start called: BoostSeason_54 (K2), DismalFunk_54 (K2), DismalStressor_54 (K2), Doughnut_55 (K2), Findley_54 (K2), Marcoliusprime_54 (K2), Milly_54 (K2),

Start 48:

- Found in 9 of 643 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 566
- Called 22.2% of time when present
- Phage (with cluster) where this start called: KiSi_55 (K1), LeMond_55 (K1),

Start 49:

- Found in 12 of 643 (1.9%) of genes in pham
- Manual Annotations of this start: 4 of 566
- Called 41.7% of time when present
- Phage (with cluster) where this start called: Mufasa_54 (K2), Strobilo_54 (K2), TM4_49 (K2), VWB_44 (BA), ZoeJ_53 (K2),

Start 50:

- Found in 2 of 643 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Nette_42 (T),

Start 51:

- Found in 48 of 643 (7.5%) of genes in pham
- Manual Annotations of this start: 12 of 566
- Called 39.6% of time when present
- Phage (with cluster) where this start called: Aegeus_88 (L5), Baudelaire_88 (L5), Bellis_77 (L3), BourbonZero_80 (L3), Calm_80 (L1), Ellson_78 (L3), Enceladus_75 (L1), Halena_76 (L1), KirDoubleO7_77 (L3), LiyuLake_78 (L3), Lolly9_78 (L3), MiniMac_83 (L3), Moostard_77 (L3), Red305_80 (L3), Samty_78 (L3), Silverleaf_78 (L1), Tourach_80 (L2), TriFive_79 (L3), Tyson_79 (L1),

Start 52:

- Found in 5 of 643 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 566
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA3_48 (DF2), Gmala1_46 (DF1), GordDuk1_47 (DF1), GordTnk2_48 (DF1), Jumbo_47 (DF3),

Start 54:

- Found in 146 of 643 (22.7%) of genes in pham
- Manual Annotations of this start: 125 of 566
- Called 92.5% of time when present
- Phage (with cluster) where this start called: 244_94 (E), ABCat_90 (E), Adnama_97 (E), Amao_93 (E), AmericanBeauty_97 (E), Argent26_97 (E), Asriel_91 (E), BaboJay_93 (E), BadStone_90 (E), Balomoji_93 (E), Barbarian_92 (E), Bask21_93 (E), Becksu_92 (E), Bench_96 (E), BigBubba_93 (E), BilboSwaggins_92 (E), Bruin_90 (E), Buck_94 (E), BugsBunny_93 (E), Cactus_96 (E), ChosenOne_93 (E), ChotaBhai_93 (E), Cjw1_94 (E), Command613_95 (E), Contagion_89 (E), Cookies_90 (E), CrystalP_92 (E), Czystczon1_94 (E), Daikon_94 (E), DoctorDiddles_92 (E), DrDrey_93 (E), Dumbo_93 (E), Dusk_90 (E), Easy2Say_94 (E), Elite2014_92 (E), Elph10_94 (E), Emmina_93 (E), Eureka_92 (E), FairyPath_93 (E), Filch_95 (E), FireRed_97 (E), Flypotenuse_89 (E), FoghornLeghorn_87 (E), Gage_95 (E), Gator_91 (E), Gemini_98 (E), Glexan_92 (E), Goku_92 (E), GoldenSpark_97 (E), Goldilocks_96 (E), GooberAzure_96 (E), HanKaySha_94 (E), Harella_93 (E), Henry_91 (E), Highbury_92 (E), Holt_98 (E), Hoonter_96 (E), Hopey_94 (E), HufflyPuff_95 (E), IHOP_91 (E), Icee_94 (E), Inca_90 (E), JeTaimie_94 (E), Kanye_90 (E), Kimchi_97 (E), Kostya_93 (E), Lilac_96 (E), Lilizi_94 (E), Lilpickle_92 (E), MISSy_94 (E), MPhalcon_94 (E), MadamMonkfish_93 (E), Manda_95 (E), Marshmallow_91 (E), Maxxinista_96 (E), Mindy_92 (E), Miniwave_88 (E), Misfit_94 (E), Moldemort_96 (E), Mosby_89 (E), Murica_96 (E), Murphy_93 (E), Myrale_93 (E), Nala_95 (E), NelitzaMV_91 (E), Nimrod_94 (E), NoSleep_94 (E), OrionPax_92 (E), Palpatine_95 (E), Paperbeatsrock_92 (E), Pat3_90 (E), Petra64142_98 (E), Phaja_91 (E), Pharsalus_90 (E), PhatBacter_97 (E), Phaux_96 (E), Phrux_91 (E), Policronamos_96 (E), Porky_92 (E), Pumpkin_97 (E), Quallification_94 (E), Rakim_94 (E), Rimmer_91 (E), RiverMonster_94 (E), Saints25_92 (E), Sassay_88 (E), ShamWow_93 (E), ShereKhan_91 (E), Simpliphy_92 (E), SirDuracell_93 (E), SophKB_90 (E), Sotrice96_94 (E), Stank_95 (E), Stark_95 (E), StellaBean_91 (E), StolenFromERC_96 (E), StormChicken_95 (E), TBrady12_96 (E), Tarkin_92 (E), TeardropMSU_89 (E), Teaspoon_94 (E), Terminus_96 (E), Thimble_96 (E), Thresher_96 (E), Tomaszewski_88 (E), Toto_91 (E), Traaww1_89 (E), Tuco_94 (E), Ukulele_88 (E), Wiggin_95 (E), Willez_88 (E), Xandras_92 (E), YassJohnny_90 (E), Youngblood_96 (E), xkcd_96 (E),

Start 57:

- Found in 16 of 643 (2.5%) of genes in pham
- Manual Annotations of this start: 9 of 566
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Astartes_7 (EK2), Atraxi_7 (EK2), Fullmetal_7 (EK2), Moleficent_7 (EK2), Morrill_7 (EK2), PhriedRice_7 (EK2), RicoCaldo_7 (EK2), ShyRosie_7 (EK2), StagePhright_7 (EK2), ThirteenKH_7 (EK2), TrippleS_7 (EK2), Yafa_7 (EK2),

Start 58:

- Found in 12 of 643 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 566
- Called 8.3% of time when present
- Phage (with cluster) where this start called: IdentityCrisis_42 (singleton),

Start 60:

- Found in 3 of 643 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Toron_68 (F6),

Start 61:

- Found in 2 of 643 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 566
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Reynauld_48 (singleton), Trogglehumper_64 (singleton),

Start 62:

- Found in 1 of 643 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 566
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Taj_63 (F1),

Start 65:

- Found in 4 of 643 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: DocB7_034 (singleton),

Start 67:

- Found in 10 of 643 (1.6%) of genes in pham
- Manual Annotations of this start: 9 of 566
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky_40 (CS4), Benczkowski14_39 (CS4), Demosthenes_39 (CS4), Hollow_40 (CS4), Katyusha_39 (CS4), Kvothe_39 (CS4), Niagara_39 (CS4), Teatealatte_40 (CS4), Teech_40 (CS4), Tredge_40 (CS4),

Start 69:

- Found in 6 of 643 (0.9%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Mbo2_39 (singleton),

Start 71:

- Found in 7 of 643 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 566
- Called 14.3% of time when present
- Phage (with cluster) where this start called: SkinnyPete_42 (N),

Start 76:

- Found in 192 of 643 (29.9%) of genes in pham
- Manual Annotations of this start: 19 of 566
- Called 15.1% of time when present
- Phage (with cluster) where this start called: AvadaKedavra_78 (L1), Baoshan_78 (L2), BigCheese_81 (L2), BobsGarage_81 (L2), CicholasNage_75 (L1), Claus_81 (L2), Crossroads_81 (L2), DHan_84 (L2), DanBing_81 (L2), DrSeegs_81 (L2), Gabriela_80 (L2), GuuelaD_79 (L2), Hafay_82 (L2), LeBron_77 (L1), Lewan_82 (L2), LilDestine_80 (L2), Loadrie_80 (L2), Netyap_82 (L2), Nicholasp3_81 (L2), Rose5_78 (L1), Sarshaun_82 (L2), SoJulia_83 (L2), Soap141_81 (L2), UPIE_77 (L1), Underpass_72 (L2), Vetrix_80 (L2), Wamburgrxpress_78 (L1), Wigglewiggle_80 (L2), ZhongYanYuan_78 (L2),

Summary by clusters:

There are 34 clusters represented in this pham: DO, singleton, BA, K3, K2, K1, K6, DP, I2, DF1, DF3, DF2, DN2, CS4, E, AD, AG, F, J, N, Q, L4, L5, L2, L3, L1, F1, F2, F4, F5, F6, T, EK2, BC3,

Info for manual annotations of cluster AD:

- Start number 33 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster AG:

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

Info for manual annotations of cluster BC3:

- Start number 39 was manually annotated 4 times for cluster BC3.

Info for manual annotations of cluster CS4:

- Start number 67 was manually annotated 9 times for cluster CS4.

Info for manual annotations of cluster DF3:

- Start number 52 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DN2:

- Start number 30 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DO:

- Start number 28 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster DP:

- Start number 43 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster E:

- Start number 54 was manually annotated 125 times for cluster E.

Info for manual annotations of cluster EK2:

- Start number 29 was manually annotated 4 times for cluster EK2.
- Start number 57 was manually annotated 9 times for cluster EK2.

Info for manual annotations of cluster F1:

- Start number 32 was manually annotated 138 times for cluster F1.
- Start number 33 was manually annotated 1 time for cluster F1.
- Start number 62 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 32 was manually annotated 6 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 32 was manually annotated 3 times for cluster F4.
- Start number 40 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F5:

- Start number 32 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster I2:

- Start number 33 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster J:

- Start number 38 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster K1:

- Start number 37 was manually annotated 82 times for cluster K1.
- Start number 44 was manually annotated 2 times for cluster K1.
- Start number 45 was manually annotated 17 times for cluster K1.
- Start number 48 was manually annotated 2 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 47 was manually annotated 6 times for cluster K2.
- Start number 49 was manually annotated 4 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 39 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 45 was manually annotated 14 times for cluster K6.
- Start number 46 was manually annotated 8 times for cluster K6.

Info for manual annotations of cluster L1:

- Start number 41 was manually annotated 8 times for cluster L1.
- Start number 51 was manually annotated 5 times for cluster L1.
- Start number 76 was manually annotated 6 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 41 was manually annotated 14 times for cluster L2.
- Start number 51 was manually annotated 1 time for cluster L2.
- Start number 76 was manually annotated 13 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 41 was manually annotated 12 times for cluster L3.
- Start number 51 was manually annotated 4 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 43 was manually annotated 4 times for cluster L4.

Info for manual annotations of cluster L5:

- Start number 51 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster N:

- Start number 33 was manually annotated 3 times for cluster N.
- Start number 71 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster Q:

- Start number 21 was manually annotated 20 times for cluster Q.
- Start number 27 was manually annotated 2 times for cluster Q.

Info for manual annotations of cluster T:

- Start number 38 was manually annotated 6 times for cluster T.

Gene Information:

Gene: 244_94 Start: 56440, Stop: 56700, Start Num: 54

Candidate Starts for 244_94:

(Start: 54 @56440 has 125 MA's), (68, 56461), (85, 56536), (96, 56605), (108, 56671),

Gene: ABCat_90 Start: 57128, Stop: 57388, Start Num: 54

Candidate Starts for ABCat_90:

(Start: 54 @57128 has 125 MA's), (68, 57149), (85, 57224), (96, 57293), (108, 57359),

Gene: ASerpRocky_40 Start: 44241, Stop: 44041, Start Num: 67

Candidate Starts for ASerpRocky_40:

(Start: 67 @44241 has 9 MA's),

Gene: Acquire49_78 Start: 52009, Stop: 52314, Start Num: 41

Candidate Starts for Acquire49_78:

(Start: 41 @52009 has 34 MA's), (Start: 51 @52024 has 12 MA's), (Start: 76 @52084 has 19 MA's), (90, 52147), (95, 52174), (122, 52297), (123, 52300),

Gene: ActinUp_50 Start: 37356, Stop: 37619, Start Num: 37

Candidate Starts for ActinUp_50:

(Start: 37 @37356 has 83 MA's), (90, 37497),

Gene: Adephagia_50 Start: 37353, Stop: 37616, Start Num: 37

Candidate Starts for Adephagia_50:

(Start: 37 @37353 has 83 MA's), (90, 37494),

Gene: Adnama_97 Start: 56736, Stop: 56996, Start Num: 54
Candidate Starts for Adnama_97:
(Start: 54 @56736 has 125 MA's), (68, 56757), (85, 56832), (96, 56901), (108, 56967),

Gene: Adonis_50 Start: 37651, Stop: 37914, Start Num: 37
Candidate Starts for Adonis_50:
(Start: 37 @37651 has 83 MA's), (90, 37792),

Gene: Aegeus_88 Start: 54840, Stop: 55091, Start Num: 51
Candidate Starts for Aegeus_88:
(Start: 51 @54840 has 12 MA's), (Start: 76 @54885 has 19 MA's), (95, 54978), (105, 55032),

Gene: Ageofdapage_52 Start: 38336, Stop: 38599, Start Num: 37
Candidate Starts for Ageofdapage_52:
(8, 38084), (Start: 37 @38336 has 83 MA's), (70, 38390), (90, 38477),

Gene: Alexphander_63 Start: 40422, Stop: 40706, Start Num: 32
Candidate Starts for Alexphander_63:
(25, 40395), (Start: 32 @40422 has 148 MA's), (Start: 45 @40446 has 31 MA's), (55, 40461), (74, 40506), (Start: 76 @40518 has 19 MA's), (92, 40596), (95, 40608), (104, 40632), (105, 40644), (117, 40698),

Gene: AlishaPH_50 Start: 37626, Stop: 37889, Start Num: 37
Candidate Starts for AlishaPH_50:
(Start: 37 @37626 has 83 MA's), (90, 37767),

Gene: AlpineSix_64 Start: 42541, Stop: 42819, Start Num: 32
Candidate Starts for AlpineSix_64:
(25, 42514), (Start: 32 @42541 has 148 MA's), (75, 42625), (77, 42634), (90, 42697), (92, 42712), (95, 42724), (104, 42748), (105, 42760), (117, 42811),

Gene: Amao_93 Start: 56248, Stop: 56508, Start Num: 54
Candidate Starts for Amao_93:
(Start: 54 @56248 has 125 MA's), (68, 56269), (85, 56344), (96, 56413), (108, 56479),

Gene: Amelie_46 Start: 37040, Stop: 37309, Start Num: 45
Candidate Starts for Amelie_46:
(Start: 45 @37040 has 31 MA's), (80, 37136), (93, 37196), (94, 37202), (95, 37205), (104, 37232), (105, 37244), (116, 37298),

Gene: AmericanBeauty_97 Start: 57297, Stop: 57557, Start Num: 54
Candidate Starts for AmericanBeauty_97:
(Start: 54 @57297 has 125 MA's), (68, 57318), (85, 57393), (96, 57462), (108, 57528),

Gene: Amgine_51 Start: 38553, Stop: 38807, Start Num: 46
Candidate Starts for Amgine_51:
(10, 38403), (Start: 46 @38553 has 8 MA's), (Start: 76 @38619 has 19 MA's), (102, 38727),

Gene: Amochick_76 Start: 49396, Stop: 49704, Start Num: 21
Candidate Starts for Amochick_76:
(19, 49390), (Start: 21 @49396 has 20 MA's), (Start: 27 @49423 has 2 MA's), (Start: 39 @49456 has 12 MA's), (78, 49558), (87, 49585), (109, 49696),

Gene: Amohnition_53 Start: 38560, Stop: 38814, Start Num: 46

Candidate Starts for Amohnition_53:

(4, 38242), (8, 38311), (10, 38407), (Start: 46 @38560 has 8 MA's), (Start: 76 @38626 has 19 MA's), (90, 38689), (102, 38734),

Gene: Amymech_75 Start: 48849, Stop: 49157, Start Num: 21

Candidate Starts for Amymech_75:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: Anaya_52 Start: 37953, Stop: 38216, Start Num: 37

Candidate Starts for Anaya_52:

(Start: 37 @37953 has 83 MA's), (70, 38007), (90, 38094), (95, 38121),

Gene: Angelica_50 Start: 37583, Stop: 37846, Start Num: 37

Candidate Starts for Angelica_50:

(Start: 37 @37583 has 83 MA's), (90, 37724),

Gene: Apocalypse_53 Start: 38362, Stop: 38625, Start Num: 37

Candidate Starts for Apocalypse_53:

(Start: 37 @38362 has 83 MA's), (90, 38503),

Gene: Applecrisp_53 Start: 38049, Stop: 38303, Start Num: 46

Candidate Starts for Applecrisp_53:

(10, 37899), (Start: 46 @38049 has 8 MA's), (Start: 76 @38115 has 19 MA's), (102, 38223), (108, 38268),

Gene: Appletree2_77 Start: 51620, Stop: 51925, Start Num: 41

Candidate Starts for Appletree2_77:

(Start: 41 @51620 has 34 MA's), (Start: 51 @51635 has 12 MA's), (Start: 76 @51695 has 19 MA's), (90, 51758), (95, 51785), (105, 51839), (122, 51908), (123, 51911),

Gene: Archie_78 Start: 53502, Stop: 53798, Start Num: 41

Candidate Starts for Archie_78:

(Start: 41 @53502 has 34 MA's), (86, 53607), (89, 53619), (95, 53655), (106, 53712),

Gene: Argent26_97 Start: 56657, Stop: 56917, Start Num: 54

Candidate Starts for Argent26_97:

(Start: 54 @56657 has 125 MA's), (68, 56678), (85, 56753), (96, 56822), (108, 56888),

Gene: Asayake_50 Start: 37668, Stop: 37931, Start Num: 37

Candidate Starts for Asayake_50:

(Start: 37 @37668 has 83 MA's), (90, 37809),

Gene: Asriel_91 Start: 55073, Stop: 55333, Start Num: 54

Candidate Starts for Asriel_91:

(Start: 54 @55073 has 125 MA's), (68, 55094), (85, 55169), (96, 55238), (108, 55304),

Gene: Astartes_7 Start: 5219, Stop: 4962, Start Num: 57

Candidate Starts for Astartes_7:

(Start: 29 @5279 has 4 MA's), (Start: 57 @5219 has 9 MA's), (90, 5105), (105, 5030), (113, 4985),

Gene: Atiba_51 Start: 37316, Stop: 37579, Start Num: 37

Candidate Starts for Atiba_51:

(Start: 37 @37316 has 83 MA's), (90, 37457),

Gene: Atraxi_7 Start: 5184, Stop: 4927, Start Num: 57

Candidate Starts for Atraxi_7:

(Start: 29 @5244 has 4 MA's), (Start: 57 @5184 has 9 MA's), (83, 5112), (90, 5070), (105, 4995), (113, 4950),

Gene: Austintatious_37 Start: 25254, Stop: 25553, Start Num: 39

Candidate Starts for Austintatious_37:

(5, 24966), (9, 25011), (20, 25185), (Start: 39 @25254 has 12 MA's), (95, 25416),

Gene: AvadaKedavra_78 Start: 52163, Stop: 52393, Start Num: 76

Candidate Starts for AvadaKedavra_78:

(Start: 41 @52088 has 34 MA's), (Start: 51 @52103 has 12 MA's), (Start: 76 @52163 has 19 MA's), (90, 52226), (95, 52253), (122, 52376), (123, 52379),

Gene: Avani_67 Start: 40740, Stop: 41018, Start Num: 32

Candidate Starts for Avani_67:

(25, 40713), (Start: 32 @40740 has 148 MA's), (75, 40824), (77, 40833), (90, 40896), (92, 40911), (95, 40923), (104, 40947), (105, 40959), (117, 41010),

Gene: BEEST_50 Start: 37668, Stop: 37931, Start Num: 37

Candidate Starts for BEEST_50:

(Start: 37 @37668 has 83 MA's), (90, 37809),

Gene: BGlluviae_50 Start: 37471, Stop: 37734, Start Num: 37

Candidate Starts for BGlluviae_50:

(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: BaboJay_93 Start: 57319, Stop: 57579, Start Num: 54

Candidate Starts for BaboJay_93:

(Start: 54 @57319 has 125 MA's), (68, 57340), (85, 57415), (96, 57484), (108, 57550),

Gene: BadStone_90 Start: 56697, Stop: 56957, Start Num: 54

Candidate Starts for BadStone_90:

(Start: 54 @56697 has 125 MA's), (68, 56718), (85, 56793), (96, 56862), (108, 56928),

Gene: BaghaKamala_49 Start: 36791, Stop: 37054, Start Num: 37

Candidate Starts for BaghaKamala_49:

(Start: 37 @36791 has 83 MA's), (90, 36932),

Gene: Balomoji_93 Start: 56855, Stop: 57115, Start Num: 54

Candidate Starts for Balomoji_93:

(12, 56717), (Start: 54 @56855 has 125 MA's), (68, 56876), (96, 57020), (108, 57086),

Gene: Baoshan_78 Start: 53848, Stop: 54084, Start Num: 76

Candidate Starts for Baoshan_78:

(Start: 41 @53788 has 34 MA's), (Start: 76 @53848 has 19 MA's), (86, 53893), (89, 53905), (95, 53941), (104, 53983),

Gene: Barbarian_92 Start: 55073, Stop: 55333, Start Num: 54

Candidate Starts for Barbarian_92:

(Start: 54 @55073 has 125 MA's), (68, 55094), (85, 55169), (96, 55238), (108, 55304),

Gene: BarrelRoll_50 Start: 37339, Stop: 37602, Start Num: 37

Candidate Starts for BarrelRoll_50:

(Start: 37 @37339 has 83 MA's), (90, 37480),

Gene: Bask21_93 Start: 55708, Stop: 55968, Start Num: 54

Candidate Starts for Bask21_93:

(12, 55570), (Start: 54 @55708 has 125 MA's), (68, 55729), (96, 55873), (108, 55939),

Gene: Baudelaire_88 Start: 54840, Stop: 55091, Start Num: 51

Candidate Starts for Baudelaire_88:

(Start: 51 @54840 has 12 MA's), (Start: 76 @54885 has 19 MA's), (95, 54978), (105, 55032),

Gene: Bazzle_78 Start: 53691, Stop: 53987, Start Num: 41

Candidate Starts for Bazzle_78:

(Start: 41 @53691 has 34 MA's), (Start: 51 @53706 has 12 MA's), (Start: 76 @53751 has 19 MA's), (89, 53808), (90, 53817), (95, 53844), (106, 53901), (109, 53928),

Gene: Becksu_92 Start: 57049, Stop: 57309, Start Num: 54

Candidate Starts for Becksu_92:

(Start: 54 @57049 has 125 MA's), (68, 57070), (85, 57145), (96, 57214), (108, 57280),

Gene: Beezoo_52 Start: 38314, Stop: 38577, Start Num: 37

Candidate Starts for Beezoo_52:

(Start: 37 @38314 has 83 MA's), (90, 38455),

Gene: Bella96_51 Start: 38180, Stop: 38443, Start Num: 37

Candidate Starts for Bella96_51:

(8, 37928), (Start: 37 @38180 has 83 MA's), (70, 38234), (87, 38303), (90, 38321),

Gene: Belladonna_50 Start: 37471, Stop: 37734, Start Num: 37

Candidate Starts for Belladonna_50:

(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: Bellis_77 Start: 53811, Stop: 54065, Start Num: 51

Candidate Starts for Bellis_77:

(Start: 41 @53796 has 34 MA's), (Start: 51 @53811 has 12 MA's), (95, 53946), (104, 53988), (108, 54024), (114, 54048),

Gene: Bench_96 Start: 56792, Stop: 57052, Start Num: 54

Candidate Starts for Bench_96:

(Start: 54 @56792 has 125 MA's), (68, 56813), (85, 56888), (96, 56957), (108, 57023),

Gene: Benczkowski14_39 Start: 44274, Stop: 44074, Start Num: 67

Candidate Starts for Benczkowski14_39:

(Start: 67 @44274 has 9 MA's),

Gene: Bern_51 Start: 36386, Stop: 36649, Start Num: 37

Candidate Starts for Bern_51:

(Start: 37 @36386 has 83 MA's), (90, 36527),

Gene: Bernal13_41 Start: 31446, Stop: 31703, Start Num: 38
Candidate Starts for Bernal13_41:
(6, 31170), (7, 31191), (Start: 38 @31446 has 7 MA's), (Start: 76 @31530 has 19 MA's), (95, 31620),

Gene: BigBubba_93 Start: 56089, Stop: 56349, Start Num: 54
Candidate Starts for BigBubba_93:
(Start: 54 @56089 has 125 MA's), (68, 56110), (85, 56185), (96, 56254), (108, 56320),

Gene: BigCheese_81 Start: 53978, Stop: 54214, Start Num: 76
Candidate Starts for BigCheese_81:
(Start: 41 @53918 has 34 MA's), (Start: 76 @53978 has 19 MA's), (86, 54023), (89, 54035), (95, 54071), (105, 54125), (106, 54128),

Gene: Biglebops_46 Start: 37040, Stop: 37309, Start Num: 45
Candidate Starts for Biglebops_46:
(Start: 45 @37040 has 31 MA's), (80, 37136), (93, 37196), (94, 37202), (95, 37205), (104, 37232), (105, 37244), (116, 37298),

Gene: BilboSwaggins_92 Start: 57094, Stop: 57354, Start Num: 54
Candidate Starts for BilboSwaggins_92:
(Start: 54 @57094 has 125 MA's), (68, 57115), (85, 57190), (96, 57259), (108, 57325),

Gene: Bioscum_41 Start: 27555, Stop: 27854, Start Num: 39
Candidate Starts for Bioscum_41:
(5, 27267), (9, 27312), (20, 27486), (Start: 39 @27555 has 12 MA's), (95, 27717),

Gene: Blarby_71 Start: 41835, Stop: 42119, Start Num: 32
Candidate Starts for Blarby_71:
(25, 41808), (Start: 32 @41835 has 148 MA's), (Start: 45 @41859 has 31 MA's), (55, 41874), (74, 41919), (Start: 76 @41931 has 19 MA's), (92, 42009), (95, 42021), (104, 42045), (105, 42057), (117, 42111),

Gene: Blexus_57 Start: 40392, Stop: 40673, Start Num: 32
Candidate Starts for Blexus_57:
(25, 40365), (Start: 32 @40392 has 148 MA's), (Start: 45 @40416 has 31 MA's), (55, 40431), (74, 40476), (Start: 76 @40488 has 19 MA's), (92, 40566), (95, 40578), (104, 40602), (105, 40614), (117, 40665),

Gene: Blizzard_50 Start: 37668, Stop: 37931, Start Num: 37
Candidate Starts for Blizzard_50:
(Start: 37 @37668 has 83 MA's), (90, 37809),

Gene: BlueCrab_59 Start: 40700, Stop: 40978, Start Num: 32
Candidate Starts for BlueCrab_59:
(25, 40673), (Start: 32 @40700 has 148 MA's), (Start: 45 @40724 has 31 MA's), (55, 40736), (74, 40781), (Start: 76 @40793 has 19 MA's), (95, 40883), (104, 40907), (105, 40919), (117, 40970),

Gene: BobaPhett_63 Start: 42651, Stop: 42935, Start Num: 32
Candidate Starts for BobaPhett_63:
(25, 42624), (Start: 32 @42651 has 148 MA's), (Start: 45 @42675 has 31 MA's), (55, 42690), (74, 42735), (Start: 76 @42747 has 19 MA's), (92, 42825), (95, 42837), (104, 42861), (105, 42873), (117, 42927),

Gene: BobsGarage_81 Start: 53978, Stop: 54214, Start Num: 76
Candidate Starts for BobsGarage_81:
(Start: 41 @53918 has 34 MA's), (Start: 76 @53978 has 19 MA's), (86, 54023), (89, 54035), (95, 54071), (105, 54125), (106, 54128),

Gene: BodEinwohner17_59 Start: 39462, Stop: 39740, Start Num: 32
Candidate Starts for BodEinwohner17_59:
(25, 39435), (Start: 32 @39462 has 148 MA's), (75, 39546), (77, 39555), (90, 39618), (92, 39633), (95, 39645), (104, 39669), (105, 39681), (117, 39732),

Gene: Boiiii_50 Start: 37670, Stop: 37933, Start Num: 37
Candidate Starts for Boiiii_50:
(Start: 37 @37670 has 83 MA's), (90, 37811),

Gene: Boomer_64 Start: 42326, Stop: 42610, Start Num: 32
Candidate Starts for Boomer_64:
(25, 42299), (Start: 32 @42326 has 148 MA's), (Start: 45 @42350 has 31 MA's), (55, 42365), (74, 42410), (Start: 76 @42422 has 19 MA's), (92, 42500), (95, 42512), (104, 42536), (105, 42548), (117, 42602),

Gene: BoostSeason_54 Start: 39128, Stop: 39364, Start Num: 47
Candidate Starts for BoostSeason_54:
(Start: 47 @39128 has 6 MA's), (Start: 49 @39131 has 4 MA's), (Start: 54 @39137 has 125 MA's), (Start: 58 @39143 has 1 MA's), (87, 39233), (88, 39239), (104, 39302), (116, 39353),

Gene: BourbonZero_80 Start: 53807, Stop: 54094, Start Num: 51
Candidate Starts for BourbonZero_80:
(Start: 41 @53792 has 34 MA's), (Start: 51 @53807 has 12 MA's), (95, 53945),

Gene: BrainDrainer_79 Start: 52733, Stop: 53023, Start Num: 43
Candidate Starts for BrainDrainer_79:
(Start: 43 @52733 has 10 MA's), (84, 52817), (86, 52832), (89, 52844), (95, 52880), (100, 52898), (101, 52910), (106, 52937),

Gene: Breezona_81 Start: 53918, Stop: 54214, Start Num: 41
Candidate Starts for Breezona_81:
(Start: 41 @53918 has 34 MA's), (Start: 76 @53978 has 19 MA's), (86, 54023), (89, 54035), (95, 54071), (105, 54125), (106, 54128),

Gene: Brocalys_54 Start: 36836, Stop: 37117, Start Num: 32
Candidate Starts for Brocalys_54:
(25, 36809), (Start: 32 @36836 has 148 MA's), (Start: 45 @36860 has 31 MA's), (55, 36875), (74, 36920), (Start: 76 @36932 has 19 MA's), (92, 37010), (95, 37022), (104, 37046), (105, 37058), (117, 37109),

Gene: Bromden_79 Start: 53366, Stop: 53650, Start Num: 43
Candidate Starts for Bromden_79:
(Start: 39 @53357 has 12 MA's), (Start: 43 @53366 has 10 MA's), (Start: 76 @53420 has 19 MA's), (89, 53477), (90, 53486), (95, 53513), (101, 53543), (106, 53570),

Gene: Bruin_90 Start: 55671, Stop: 55931, Start Num: 54
Candidate Starts for Bruin_90:
(Start: 54 @55671 has 125 MA's), (68, 55692), (85, 55767), (96, 55836), (108, 55902),

Gene: Bryler_54 Start: 37154, Stop: 37411, Start Num: 45

Candidate Starts for Bryler_54:

(Start: 45 @37154 has 31 MA's), (59, 37175), (Start: 76 @37229 has 19 MA's), (90, 37292), (91, 37301), (108, 37379),

Gene: Buck_94 Start: 57360, Stop: 57620, Start Num: 54

Candidate Starts for Buck_94:

(12, 57222), (Start: 54 @57360 has 125 MA's), (68, 57381), (96, 57525), (108, 57591),

Gene: BugsBunny_93 Start: 57200, Stop: 57460, Start Num: 54

Candidate Starts for BugsBunny_93:

(Start: 54 @57200 has 125 MA's), (68, 57221), (85, 57296), (96, 57365), (108, 57431),

Gene: Burwell21_57 Start: 39934, Stop: 40218, Start Num: 32

Candidate Starts for Burwell21_57:

(25, 39907), (Start: 32 @39934 has 148 MA's), (Start: 45 @39958 has 31 MA's), (55, 39973), (74, 40018), (Start: 76 @40030 has 19 MA's), (92, 40108), (95, 40120), (104, 40144), (105, 40156), (117, 40210),

Gene: BuzzLyseyear_65 Start: 41358, Stop: 41639, Start Num: 32

Candidate Starts for BuzzLyseyear_65:

(25, 41331), (Start: 32 @41358 has 148 MA's), (Start: 45 @41382 has 31 MA's), (55, 41397), (74, 41442), (Start: 76 @41454 has 19 MA's), (92, 41532), (95, 41544), (104, 41568), (105, 41580), (117, 41631),

Gene: ByChance_51 Start: 35625, Stop: 35906, Start Num: 32

Candidate Starts for ByChance_51:

(25, 35598), (Start: 32 @35625 has 148 MA's), (Start: 45 @35649 has 31 MA's), (55, 35661), (74, 35706), (Start: 76 @35718 has 19 MA's), (92, 35796), (95, 35808), (104, 35832), (105, 35844), (117, 35898),

Gene: Byougenkin_57 Start: 39701, Stop: 39982, Start Num: 32

Candidate Starts for Byougenkin_57:

(25, 39674), (Start: 32 @39701 has 148 MA's), (Start: 45 @39725 has 31 MA's), (55, 39740), (74, 39785), (Start: 76 @39797 has 19 MA's), (92, 39875), (95, 39887), (104, 39911), (105, 39923), (117, 39974),

Gene: CREW_50 Start: 37471, Stop: 37734, Start Num: 37

Candidate Starts for CREW_50:

(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: Cabrinians_60 Start: 40012, Stop: 40296, Start Num: 32

Candidate Starts for Cabrinians_60:

(25, 39985), (Start: 32 @40012 has 148 MA's), (Start: 45 @40036 has 31 MA's), (55, 40051), (74, 40096), (Start: 76 @40108 has 19 MA's), (92, 40186), (95, 40198), (104, 40222), (105, 40234), (117, 40288),

Gene: Cactus_96 Start: 55737, Stop: 55997, Start Num: 54

Candidate Starts for Cactus_96:

(Start: 54 @55737 has 125 MA's), (68, 55758), (85, 55833), (96, 55902), (108, 55968),

Gene: Cain_54 Start: 37142, Stop: 37399, Start Num: 45

Candidate Starts for Cain_54:

(Start: 45 @37142 has 31 MA's), (59, 37163), (Start: 76 @37217 has 19 MA's), (90, 37280), (91, 37289), (108, 37367),

Gene: CallaLilly_52 Start: 37394, Stop: 37657, Start Num: 37

Candidate Starts for CallaLilly_52:

(Start: 37 @37394 has 83 MA's), (90, 37535),

Gene: Calm_80 Start: 52346, Stop: 52636, Start Num: 51

Candidate Starts for Calm_80:

(Start: 41 @52331 has 34 MA's), (Start: 51 @52346 has 12 MA's), (Start: 76 @52406 has 19 MA's), (90, 52469), (95, 52496), (122, 52619), (123, 52622),

Gene: Capricorn_50 Start: 37471, Stop: 37734, Start Num: 37

Candidate Starts for Capricorn_50:

(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: CaptainTrips_56 Start: 39508, Stop: 39792, Start Num: 32

Candidate Starts for CaptainTrips_56:

(Start: 32 @39508 has 148 MA's), (Start: 45 @39532 has 31 MA's), (55, 39547), (74, 39592), (Start: 76 @39604 has 19 MA's), (92, 39682), (95, 39694), (104, 39718), (105, 39730), (117, 39784),

Gene: CaseJules_52 Start: 37668, Stop: 37931, Start Num: 37

Candidate Starts for CaseJules_52:

(Start: 37 @37668 has 83 MA's), (90, 37809),

Gene: Charlie_44 Start: 30217, Stop: 30516, Start Num: 33

Candidate Starts for Charlie_44:

(Start: 33 @30217 has 6 MA's), (42, 30235), (63, 30271), (Start: 71 @30286 has 1 MA's), (90, 30382), (104, 30433), (108, 30469), (116, 30502), (119, 30508),

Gene: Chaser_77 Start: 52365, Stop: 52655, Start Num: 43

Candidate Starts for Chaser_77:

(Start: 43 @52365 has 10 MA's), (Start: 51 @52374 has 12 MA's), (Start: 76 @52419 has 19 MA's), (86, 52464), (89, 52476), (95, 52512), (100, 52530), (106, 52569),

Gene: Chavito_54 Start: 38944, Stop: 39207, Start Num: 45

Candidate Starts for Chavito_54:

(3, 38536), (4, 38620), (8, 38689), (Start: 45 @38944 has 31 MA's), (81, 39046), (87, 39064), (90, 39082), (104, 39136), (108, 39172), (116, 39196),

Gene: Cheesepuff_68 Start: 41977, Stop: 42255, Start Num: 32

Candidate Starts for Cheesepuff_68:

(23, 41941), (Start: 32 @41977 has 148 MA's), (Start: 45 @42001 has 31 MA's), (74, 42058), (Start: 76 @42070 has 19 MA's), (92, 42148), (95, 42160), (104, 42184), (105, 42196), (117, 42247),

Gene: CheetoDust_49 Start: 36840, Stop: 37103, Start Num: 37

Candidate Starts for CheetoDust_49:

(Start: 37 @36840 has 83 MA's), (90, 36981),

Gene: CherryTomatoes_55 Start: 18497, Stop: 18778, Start Num: 28

Candidate Starts for CherryTomatoes_55:

(Start: 28 @18497 has 3 MA's), (Start: 45 @18533 has 31 MA's), (Start: 76 @18608 has 19 MA's),

Gene: ChosenOne_93 Start: 56152, Stop: 56412, Start Num: 54
Candidate Starts for ChosenOne_93:
(Start: 54 @56152 has 125 MA's), (68, 56173), (85, 56248), (96, 56317), (108, 56383),

Gene: ChotaBhai_93 Start: 56073, Stop: 56333, Start Num: 54
Candidate Starts for ChotaBhai_93:
(12, 55935), (Start: 54 @56073 has 125 MA's), (68, 56094), (96, 56238), (108, 56304),

Gene: Chris_53 Start: 38292, Stop: 38561, Start Num: 45
Candidate Starts for Chris_53:
(Start: 45 @38292 has 31 MA's), (102, 38466), (120, 38547), (121, 38550),

Gene: Chuckly_62 Start: 40654, Stop: 40938, Start Num: 32
Candidate Starts for Chuckly_62:
(25, 40627), (Start: 32 @40654 has 148 MA's), (Start: 45 @40678 has 31 MA's), (55, 40693), (74, 40738), (Start: 76 @40750 has 19 MA's), (92, 40828), (95, 40840), (104, 40864), (105, 40876), (117, 40930),

Gene: Chymera_48 Start: 30948, Stop: 31208, Start Num: 34
Candidate Starts for Chymera_48:
(Start: 34 @30948 has 1 MA's), (Start: 38 @30954 has 7 MA's), (Start: 45 @30960 has 31 MA's), (104, 31149),

Gene: CicholasNage_75 Start: 51748, Stop: 51978, Start Num: 76
Candidate Starts for CicholasNage_75:
(Start: 41 @51673 has 34 MA's), (Start: 51 @51688 has 12 MA's), (Start: 76 @51748 has 19 MA's), (90, 51811), (95, 51838), (122, 51961), (123, 51964),

Gene: Cjw1_94 Start: 58116, Stop: 58376, Start Num: 54
Candidate Starts for Cjw1_94:
(Start: 54 @58116 has 125 MA's), (68, 58137), (85, 58212), (96, 58281), (108, 58347),

Gene: Claus_81 Start: 53913, Stop: 54149, Start Num: 76
Candidate Starts for Claus_81:
(Start: 41 @53853 has 34 MA's), (Start: 76 @53913 has 19 MA's), (86, 53958), (89, 53970), (95, 54006), (104, 54048), (105, 54060), (106, 54063),

Gene: Clautastrophe_77 Start: 53794, Stop: 54063, Start Num: 41
Candidate Starts for Clautastrophe_77:
(Start: 41 @53794 has 34 MA's), (Start: 51 @53809 has 12 MA's), (95, 53944), (104, 53986), (108, 54022), (114, 54046),

Gene: Clifton_54 Start: 37187, Stop: 37468, Start Num: 32
Candidate Starts for Clifton_54:
(25, 37160), (Start: 32 @37187 has 148 MA's), (Start: 45 @37211 has 31 MA's), (55, 37226), (74, 37271), (Start: 76 @37283 has 19 MA's), (92, 37361), (95, 37373), (104, 37397), (105, 37409), (117, 37460),

Gene: Clipper_54 Start: 37987, Stop: 38250, Start Num: 37
Candidate Starts for Clipper_54:
(Start: 37 @37987 has 83 MA's), (90, 38128),

Gene: Command613_95 Start: 57191, Stop: 57451, Start Num: 54
Candidate Starts for Command613_95:
(Start: 54 @57191 has 125 MA's), (68, 57212), (85, 57287), (96, 57356), (108, 57422),

Gene: Constella_113 Start: 65296, Stop: 65556, Start Num: 38
Candidate Starts for Constella_113:
(Start: 33 @65287 has 6 MA's), (35, 65293), (Start: 38 @65296 has 7 MA's), (53, 65320), (90, 65452),
(95, 65479), (103, 65494), (104, 65500),

Gene: Contagion_89 Start: 55952, Stop: 56212, Start Num: 54
Candidate Starts for Contagion_89:
(Start: 54 @55952 has 125 MA's), (68, 55973), (85, 56048), (96, 56117), (108, 56183),

Gene: Cookies_90 Start: 55930, Stop: 56190, Start Num: 54
Candidate Starts for Cookies_90:
(12, 55792), (Start: 54 @55930 has 125 MA's), (68, 55951), (96, 56095), (108, 56161),

Gene: Cornie_55 Start: 38439, Stop: 38717, Start Num: 32
Candidate Starts for Cornie_55:
(23, 38403), (Start: 32 @38439 has 148 MA's), (Start: 45 @38463 has 31 MA's), (74, 38520), (Start: 76
@38532 has 19 MA's), (92, 38610), (95, 38622), (104, 38646), (105, 38658), (117, 38709),

Gene: Cornucopia_61 Start: 40668, Stop: 40946, Start Num: 32
Candidate Starts for Cornucopia_61:
(25, 40641), (Start: 32 @40668 has 148 MA's), (75, 40752), (77, 40761), (90, 40824), (92, 40839), (95,
40851), (104, 40875), (105, 40887), (117, 40938),

Gene: CrimD_50 Start: 37577, Stop: 37840, Start Num: 37
Candidate Starts for CrimD_50:
(Start: 37 @37577 has 83 MA's), (70, 37631), (90, 37718),

Gene: Crossroads_81 Start: 54053, Stop: 54289, Start Num: 76
Candidate Starts for Crossroads_81:
(Start: 41 @53993 has 34 MA's), (Start: 76 @54053 has 19 MA's), (86, 54098), (89, 54110), (95,
54146), (105, 54200), (106, 54203),

Gene: Crumble_54 Start: 35948, Stop: 36232, Start Num: 32
Candidate Starts for Crumble_54:
(25, 35921), (Start: 32 @35948 has 148 MA's), (Start: 45 @35972 has 31 MA's), (55, 35987), (74,
36032), (Start: 76 @36044 has 19 MA's), (92, 36122), (95, 36134), (104, 36158), (105, 36170), (117,
36224),

Gene: CrystalP_92 Start: 57094, Stop: 57354, Start Num: 54
Candidate Starts for CrystalP_92:
(Start: 54 @57094 has 125 MA's), (68, 57115), (85, 57190), (96, 57259), (108, 57325),

Gene: Curiosium_52 Start: 36255, Stop: 36521, Start Num: 37
Candidate Starts for Curiosium_52:
(Start: 37 @36255 has 83 MA's), (Start: 44 @36267 has 2 MA's), (70, 36312), (90, 36399), (108,
36489),

Gene: Czyszczone1_94 Start: 56655, Stop: 56915, Start Num: 54
Candidate Starts for Czyszczone1_94:

(Start: 54 @56655 has 125 MA's), (68, 56676), (85, 56751), (96, 56820), (108, 56886),

Gene: DHan_84 Start: 54131, Stop: 54367, Start Num: 76

Candidate Starts for DHan_84:

(Start: 41 @54071 has 34 MA's), (Start: 76 @54131 has 19 MA's), (86, 54176), (89, 54188), (95, 54224), (104, 54266), (105, 54278), (106, 54281),

Gene: DRBy19_62 Start: 41112, Stop: 41393, Start Num: 32

Candidate Starts for DRBy19_62:

(25, 41085), (Start: 32 @41112 has 148 MA's), (75, 41196), (77, 41205), (90, 41268), (92, 41283), (95, 41295), (104, 41319), (105, 41331), (117, 41385),

Gene: DaddyRickover_58 Start: 40151, Stop: 40435, Start Num: 32

Candidate Starts for DaddyRickover_58:

(25, 40124), (Start: 32 @40151 has 148 MA's), (Start: 45 @40175 has 31 MA's), (55, 40190), (74, 40235), (Start: 76 @40247 has 19 MA's), (92, 40325), (95, 40337), (104, 40361), (105, 40373), (117, 40427),

Gene: Daegal_77 Start: 49955, Stop: 50263, Start Num: 21

Candidate Starts for Daegal_77:

(16, 49937), (19, 49949), (Start: 21 @49955 has 20 MA's), (Start: 27 @49982 has 2 MA's), (Start: 39 @50015 has 12 MA's), (78, 50117), (87, 50144), (109, 50255),

Gene: Daenerys_53 Start: 38267, Stop: 38545, Start Num: 32

Candidate Starts for Daenerys_53:

(25, 38240), (Start: 32 @38267 has 148 MA's), (75, 38351), (77, 38360), (90, 38423), (92, 38438), (95, 38450), (104, 38474), (105, 38486), (117, 38537),

Gene: Daikon_94 Start: 56682, Stop: 56942, Start Num: 54

Candidate Starts for Daikon_94:

(12, 56544), (Start: 54 @56682 has 125 MA's), (68, 56703), (96, 56847), (108, 56913),

Gene: Dalmuri_50 Start: 37471, Stop: 37734, Start Num: 37

Candidate Starts for Dalmuri_50:

(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: DanBing_81 Start: 53783, Stop: 54019, Start Num: 76

Candidate Starts for DanBing_81:

(Start: 41 @53723 has 34 MA's), (Start: 76 @53783 has 19 MA's), (86, 53828), (89, 53840), (95, 53876), (104, 53918),

Gene: DarthP_53 Start: 38444, Stop: 38698, Start Num: 46

Candidate Starts for DarthP_53:

(4, 38126), (8, 38195), (10, 38291), (Start: 46 @38444 has 8 MA's), (Start: 76 @38510 has 19 MA's), (90, 38573), (102, 38618),

Gene: Dartin_53 Start: 38285, Stop: 38548, Start Num: 45

Candidate Starts for Dartin_53:

(1, 37805), (4, 37961), (8, 38030), (Start: 45 @38285 has 31 MA's), (81, 38387), (87, 38405), (90, 38423), (104, 38477), (108, 38513), (116, 38537),

Gene: DeadP_65 Start: 42582, Stop: 42848, Start Num: 32

Candidate Starts for DeadP_65:

(Start: 32 @42582 has 148 MA's), (Start: 45 @42606 has 31 MA's), (55, 42621), (74, 42666), (Start: 76 @42678 has 19 MA's), (92, 42756), (95, 42768), (104, 42792),

Gene: Deby_50 Start: 37599, Stop: 37862, Start Num: 37
Candidate Starts for Deby_50:
(Start: 37 @37599 has 83 MA's), (70, 37653), (90, 37740),

Gene: DeepSoil15_75 Start: 48849, Stop: 49157, Start Num: 21
Candidate Starts for DeepSoil15_75:
(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: Demosthenes_39 Start: 44214, Stop: 44014, Start Num: 67
Candidate Starts for Demosthenes_39:
(Start: 67 @44214 has 9 MA's),

Gene: Demsculpinboyz_70 Start: 39936, Stop: 40217, Start Num: 32
Candidate Starts for Demsculpinboyz_70:
(24, 39900), (Start: 32 @39936 has 148 MA's), (Start: 40 @39951 has 1 MA's), (55, 39975), (74, 40020), (Start: 76 @40032 has 19 MA's), (104, 40146), (105, 40158), (117, 40209),

Gene: Devera_55 Start: 38103, Stop: 38366, Start Num: 37
Candidate Starts for Devera_55:
(8, 37851), (Start: 37 @38103 has 83 MA's), (70, 38157), (90, 38244),

Gene: Dewey_68 Start: 48849, Stop: 49157, Start Num: 21
Candidate Starts for Dewey_68:
(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: DillTech15_56 Start: 38601, Stop: 38879, Start Num: 32
Candidate Starts for DillTech15_56:
(25, 38574), (Start: 32 @38601 has 148 MA's), (75, 38685), (77, 38694), (90, 38757), (92, 38772), (95, 38784), (104, 38808), (105, 38820), (117, 38871),

Gene: DirkDirk_75 Start: 51200, Stop: 51505, Start Num: 41
Candidate Starts for DirkDirk_75:
(Start: 41 @51200 has 34 MA's), (Start: 51 @51215 has 12 MA's), (Start: 76 @51275 has 19 MA's), (90, 51338), (95, 51365), (105, 51419), (122, 51488), (123, 51491),

Gene: DirtMcgirt_58 Start: 38676, Stop: 38960, Start Num: 32
Candidate Starts for DirtMcgirt_58:
(25, 38649), (Start: 32 @38676 has 148 MA's), (Start: 45 @38700 has 31 MA's), (55, 38715), (74, 38760), (Start: 76 @38772 has 19 MA's), (92, 38850), (95, 38862), (104, 38886), (105, 38898), (117, 38952),

Gene: DismalFunk_54 Start: 39559, Stop: 39792, Start Num: 47
Candidate Starts for DismalFunk_54:
(Start: 47 @39559 has 6 MA's), (Start: 49 @39562 has 4 MA's), (Start: 54 @39568 has 125 MA's), (Start: 58 @39574 has 1 MA's), (87, 39664), (88, 39670), (104, 39733),

Gene: DismalStressor_54 Start: 39559, Stop: 39792, Start Num: 47
Candidate Starts for DismalStressor_54:

(Start: 47 @39559 has 6 MA's), (Start: 49 @39562 has 4 MA's), (Start: 54 @39568 has 125 MA's),
(Start: 58 @39574 has 1 MA's), (87, 39664), (88, 39670), (104, 39733),

Gene: DocB7_034 Start: 36428, Stop: 36228, Start Num: 65

Candidate Starts for DocB7_034:

(65, 36428), (88, 36332), (90, 36320), (99, 36287),

Gene: DoctorDiddles_92 Start: 56117, Stop: 56377, Start Num: 54

Candidate Starts for DoctorDiddles_92:

(12, 55979), (Start: 54 @56117 has 125 MA's), (68, 56138), (96, 56282), (108, 56348),

Gene: Dole_53 Start: 38105, Stop: 38368, Start Num: 37

Candidate Starts for Dole_53:

(8, 37853), (Start: 37 @38105 has 83 MA's), (70, 38159), (90, 38246),

Gene: Doomphist_59 Start: 41112, Stop: 41390, Start Num: 32

Candidate Starts for Doomphist_59:

(25, 41085), (Start: 32 @41112 has 148 MA's), (75, 41196), (77, 41205), (90, 41268), (92, 41283), (95,
41295), (104, 41319), (105, 41331), (117, 41382),

Gene: Dorothy_57 Start: 39331, Stop: 39609, Start Num: 32

Candidate Starts for Dorothy_57:

(25, 39304), (Start: 32 @39331 has 148 MA's), (75, 39415), (77, 39424), (90, 39487), (92, 39502), (95,
39514), (104, 39538), (105, 39550), (117, 39601),

Gene: DosHalletts_61 Start: 41467, Stop: 41745, Start Num: 32

Candidate Starts for DosHalletts_61:

(25, 41440), (Start: 32 @41467 has 148 MA's), (75, 41551), (77, 41560), (90, 41623), (92, 41638), (95,
41650), (104, 41674), (105, 41686), (117, 41737),

Gene: Doug_61 Start: 40679, Stop: 40963, Start Num: 32

Candidate Starts for Doug_61:

(25, 40652), (Start: 32 @40679 has 148 MA's), (Start: 45 @40703 has 31 MA's), (55, 40718), (74,
40763), (Start: 76 @40775 has 19 MA's), (92, 40853), (95, 40865), (104, 40889), (105, 40901), (117,
40955),

Gene: Douge_78 Start: 52288, Stop: 52587, Start Num: 43

Candidate Starts for Douge_78:

(Start: 43 @52288 has 10 MA's), (70, 52318), (Start: 76 @52342 has 19 MA's), (89, 52399), (90,
52408), (95, 52435), (101, 52465),

Gene: Doughnut_55 Start: 39169, Stop: 39405, Start Num: 47

Candidate Starts for Doughnut_55:

(Start: 47 @39169 has 6 MA's), (Start: 49 @39172 has 4 MA's), (Start: 54 @39178 has 125 MA's),
(Start: 58 @39184 has 1 MA's), (87, 39274), (88, 39280), (104, 39343), (116, 39394),

Gene: Douzhi_79 Start: 52550, Stop: 52840, Start Num: 43

Candidate Starts for Douzhi_79:

(Start: 43 @52550 has 10 MA's), (84, 52634), (86, 52649), (89, 52661), (95, 52697), (101, 52727),
(106, 52754),

Gene: DrDrey_93 Start: 57574, Stop: 57834, Start Num: 54

Candidate Starts for DrDrey_93:

(Start: 54 @57574 has 125 MA's), (68, 57595), (85, 57670), (96, 57739), (108, 57805),

Gene: DrHayes_51 Start: 38242, Stop: 38505, Start Num: 37

Candidate Starts for DrHayes_51:

(8, 37990), (Start: 37 @38242 has 83 MA's), (70, 38296), (87, 38365), (90, 38383),

Gene: DrSeegs_81 Start: 53978, Stop: 54214, Start Num: 76

Candidate Starts for DrSeegs_81:

(Start: 41 @53918 has 34 MA's), (Start: 76 @53978 has 19 MA's), (86, 54023), (89, 54035), (95, 54071), (105, 54125), (106, 54128),

Gene: Drago_57 Start: 38679, Stop: 38963, Start Num: 32

Candidate Starts for Drago_57:

(25, 38652), (Start: 32 @38679 has 148 MA's), (Start: 45 @38703 has 31 MA's), (55, 38718), (74, 38763), (Start: 76 @38775 has 19 MA's), (92, 38853), (95, 38865), (104, 38889), (105, 38901), (117, 38955),

Gene: Dumbo_93 Start: 56054, Stop: 56314, Start Num: 54

Candidate Starts for Dumbo_93:

(Start: 54 @56054 has 125 MA's), (68, 56075), (85, 56150), (96, 56219), (108, 56285),

Gene: DuncansLeg_79 Start: 53780, Stop: 54082, Start Num: 41

Candidate Starts for DuncansLeg_79:

(Start: 41 @53780 has 34 MA's), (Start: 51 @53795 has 12 MA's), (95, 53933),

Gene: Durfee_50 Start: 37668, Stop: 37931, Start Num: 37

Candidate Starts for Durfee_50:

(Start: 37 @37668 has 83 MA's), (90, 37809),

Gene: Dusk_90 Start: 56357, Stop: 56617, Start Num: 54

Candidate Starts for Dusk_90:

(Start: 54 @56357 has 125 MA's), (68, 56378), (85, 56453), (96, 56522), (108, 56588),

Gene: DyoEdafos_83 Start: 53198, Stop: 53488, Start Num: 43

Candidate Starts for DyoEdafos_83:

(Start: 43 @53198 has 10 MA's), (70, 53228), (Start: 76 @53252 has 19 MA's), (89, 53309), (90, 53318), (95, 53345), (101, 53375), (106, 53402),

Gene: Easy2Say_94 Start: 57556, Stop: 57816, Start Num: 54

Candidate Starts for Easy2Say_94:

(Start: 54 @57556 has 125 MA's), (68, 57577), (85, 57652), (96, 57721), (108, 57787),

Gene: Efra2_53 Start: 37187, Stop: 37450, Start Num: 37

Candidate Starts for Efra2_53:

(Start: 37 @37187 has 83 MA's), (Start: 44 @37199 has 2 MA's), (87, 37310), (90, 37328),

Gene: Ein37_75 Start: 48849, Stop: 49157, Start Num: 21

Candidate Starts for Ein37_75:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: Ekdilam_50 Start: 37991, Stop: 38245, Start Num: 46

Candidate Starts for Ekdilam_50:

(4, 37673), (8, 37742), (10, 37838), (Start: 46 @37991 has 8 MA's), (90, 38120), (102, 38165),

Gene: EleanorGeorge_60 Start: 40795, Stop: 41076, Start Num: 32

Candidate Starts for EleanorGeorge_60:

(25, 40768), (Start: 32 @40795 has 148 MA's), (Start: 45 @40819 has 31 MA's), (55, 40834), (74, 40879), (Start: 76 @40891 has 19 MA's), (92, 40969), (95, 40981), (104, 41005), (105, 41017), (117, 41068),

Gene: Elite2014_92 Start: 56151, Stop: 56411, Start Num: 54

Candidate Starts for Elite2014_92:

(Start: 54 @56151 has 125 MA's), (68, 56172), (85, 56247), (96, 56316), (108, 56382),

Gene: Ellie_49 Start: 37741, Stop: 37995, Start Num: 46

Candidate Starts for Ellie_49:

(10, 37591), (Start: 46 @37741 has 8 MA's), (Start: 76 @37807 has 19 MA's), (102, 37915), (108, 37960),

Gene: Ellson_78 Start: 54110, Stop: 54397, Start Num: 51

Candidate Starts for Ellson_78:

(Start: 41 @54095 has 34 MA's), (Start: 51 @54110 has 12 MA's), (95, 54248),

Gene: Elph10_94 Start: 56144, Stop: 56404, Start Num: 54

Candidate Starts for Elph10_94:

(Start: 54 @56144 has 125 MA's), (68, 56165), (85, 56240), (96, 56309), (108, 56375),

Gene: Emerson_51 Start: 37347, Stop: 37610, Start Num: 37

Candidate Starts for Emerson_51:

(Start: 37 @37347 has 83 MA's), (90, 37488),

Gene: Emmina_93 Start: 55777, Stop: 56037, Start Num: 54

Candidate Starts for Emmina_93:

(Start: 54 @55777 has 125 MA's), (68, 55798), (85, 55873), (96, 55942), (108, 56008),

Gene: Empress_57 Start: 39681, Stop: 39959, Start Num: 32

Candidate Starts for Empress_57:

(25, 39654), (Start: 32 @39681 has 148 MA's), (75, 39765), (77, 39774), (90, 39837), (92, 39852), (95, 39864), (104, 39888), (105, 39900), (117, 39951),

Gene: Enby_60 Start: 38955, Stop: 39239, Start Num: 32

Candidate Starts for Enby_60:

(Start: 32 @38955 has 148 MA's), (Start: 45 @38979 has 31 MA's), (55, 38994), (74, 39039), (Start: 76 @39051 has 19 MA's), (92, 39129), (95, 39141), (104, 39165), (105, 39177), (117, 39231),

Gene: Enceladus_75 Start: 51992, Stop: 52282, Start Num: 51

Candidate Starts for Enceladus_75:

(Start: 41 @51977 has 34 MA's), (Start: 51 @51992 has 12 MA's), (Start: 76 @52052 has 19 MA's), (90, 52115), (95, 52142), (105, 52196), (122, 52265), (123, 52268),

Gene: Enkosi_48 Start: 39653, Stop: 39922, Start Num: 45

Candidate Starts for Enkosi_48:

(Start: 45 @39653 has 31 MA's), (80, 39749), (93, 39809), (94, 39815), (95, 39818), (104, 39845), (105, 39857), (116, 39911),

Gene: Eradicator_52 Start: 38208, Stop: 38489, Start Num: 32

Candidate Starts for Eradicator_52:

(25, 38181), (Start: 32 @38208 has 148 MA's), (Start: 45 @38232 has 31 MA's), (55, 38247), (74, 38292), (Start: 76 @38304 has 19 MA's), (92, 38382), (95, 38394), (104, 38418), (105, 38430), (117, 38481),

Gene: Estave1_62 Start: 41132, Stop: 41410, Start Num: 32

Candidate Starts for Estave1_62:

(25, 41105), (Start: 32 @41132 has 148 MA's), (75, 41216), (77, 41225), (90, 41288), (92, 41303), (95, 41315), (104, 41339), (105, 41351), (117, 41402),

Gene: Eureka_92 Start: 57064, Stop: 57324, Start Num: 54

Candidate Starts for Eureka_92:

(Start: 54 @57064 has 125 MA's), (68, 57085), (85, 57160), (96, 57229), (108, 57295),

Gene: Evanesce_74 Start: 48849, Stop: 49157, Start Num: 21

Candidate Starts for Evanesce_74:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: FairyPath_93 Start: 57270, Stop: 57530, Start Num: 54

Candidate Starts for FairyPath_93:

(Start: 54 @57270 has 125 MA's), (68, 57291), (85, 57366), (96, 57435), (108, 57501),

Gene: Faith1_81 Start: 53918, Stop: 54214, Start Num: 41

Candidate Starts for Faith1_81:

(Start: 41 @53918 has 34 MA's), (Start: 76 @53978 has 19 MA's), (86, 54023), (89, 54035), (95, 54071), (105, 54125), (106, 54128),

Gene: Fancypants_61 Start: 40646, Stop: 40930, Start Num: 32

Candidate Starts for Fancypants_61:

(25, 40619), (Start: 32 @40646 has 148 MA's), (Start: 45 @40670 has 31 MA's), (55, 40685), (74, 40730), (Start: 76 @40742 has 19 MA's), (92, 40820), (95, 40832), (104, 40856), (105, 40868), (117, 40922),

Gene: FarmResident_80 Start: 52292, Stop: 52576, Start Num: 43

Candidate Starts for FarmResident_80:

(Start: 43 @52292 has 10 MA's), (Start: 76 @52346 has 19 MA's), (86, 52391), (89, 52403), (95, 52439), (100, 52457), (106, 52496),

Gene: Fastidio_59 Start: 38748, Stop: 39026, Start Num: 32

Candidate Starts for Fastidio_59:

(25, 38721), (Start: 32 @38748 has 148 MA's), (75, 38832), (77, 38841), (90, 38904), (92, 38919), (95, 38931), (104, 38955), (105, 38967), (117, 39018),

Gene: Fefferhead_51 Start: 37691, Stop: 37945, Start Num: 46

Candidate Starts for Fefferhead_51:

(10, 37541), (Start: 46 @37691 has 8 MA's), (Start: 76 @37757 has 19 MA's), (102, 37865), (108, 37910),

Gene: Filch_95 Start: 56349, Stop: 56609, Start Num: 54

Candidate Starts for Filch_95:

(Start: 54 @56349 has 125 MA's), (68, 56370), (85, 56445), (96, 56514), (108, 56580),

Gene: Findley_54 Start: 39552, Stop: 39785, Start Num: 47

Candidate Starts for Findley_54:

(Start: 47 @39552 has 6 MA's), (Start: 49 @39555 has 4 MA's), (Start: 54 @39561 has 125 MA's), (Start: 58 @39567 has 1 MA's), (87, 39657), (88, 39663), (104, 39726),

Gene: Finemlucis_80 Start: 54386, Stop: 54682, Start Num: 41

Candidate Starts for Finemlucis_80:

(Start: 41 @54386 has 34 MA's), (90, 54512), (95, 54539), (101, 54569), (105, 54593),

Gene: Finnry_79 Start: 54045, Stop: 54314, Start Num: 41

Candidate Starts for Finnry_79:

(Start: 41 @54045 has 34 MA's), (Start: 51 @54060 has 12 MA's), (95, 54195), (104, 54237), (108, 54273), (114, 54297),

Gene: FireRed_97 Start: 57367, Stop: 57627, Start Num: 54

Candidate Starts for FireRed_97:

(Start: 54 @57367 has 125 MA's), (68, 57388), (85, 57463), (96, 57532), (108, 57598),

Gene: Firehouse51_60 Start: 43530, Stop: 43814, Start Num: 32

Candidate Starts for Firehouse51_60:

(25, 43503), (Start: 32 @43530 has 148 MA's), (Start: 45 @43554 has 31 MA's), (55, 43569), (74, 43614), (Start: 76 @43626 has 19 MA's), (92, 43704), (95, 43716), (104, 43740), (105, 43752), (117, 43806),

Gene: Flypotenuse_89 Start: 55727, Stop: 55987, Start Num: 54

Candidate Starts for Flypotenuse_89:

(Start: 54 @55727 has 125 MA's), (68, 55748), (85, 55823), (96, 55892), (108, 55958),

Gene: FoghornLeghorn_87 Start: 54752, Stop: 55012, Start Num: 54

Candidate Starts for FoghornLeghorn_87:

(12, 54614), (Start: 54 @54752 has 125 MA's), (68, 54773), (96, 54917), (108, 54983),

Gene: Footloose_55 Start: 31826, Stop: 32083, Start Num: 36

Candidate Starts for Footloose_55:

(Start: 36 @31826 has 1 MA's), (Start: 43 @31838 has 10 MA's),

Gene: Forge_68 Start: 48876, Stop: 49157, Start Num: 27

Candidate Starts for Forge_68:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: FreddyB_60 Start: 38860, Stop: 39141, Start Num: 32

Candidate Starts for FreddyB_60:

(25, 38833), (Start: 32 @38860 has 148 MA's), (Start: 45 @38884 has 31 MA's), (55, 38899), (74, 38944), (Start: 76 @38956 has 19 MA's), (92, 39034), (95, 39046), (104, 39070), (105, 39082), (117, 39133),

Gene: Fryberger_93 Start: 47445, Stop: 47750, Start Num: 43

Candidate Starts for Fryberger_93:

(Start: 43 @47445 has 10 MA's), (70, 47478), (111, 47679), (118, 47703),

Gene: Fullmetal_7 Start: 5216, Stop: 4959, Start Num: 57

Candidate Starts for Fullmetal_7:

(Start: 29 @5276 has 4 MA's), (Start: 57 @5216 has 9 MA's), (90, 5102), (105, 5027), (113, 4982),

Gene: GMA3_48 Start: 45185, Stop: 44973, Start Num: 52

Candidate Starts for GMA3_48:

(Start: 52 @45185 has 1 MA's),

Gene: GUmbie_57 Start: 39435, Stop: 39716, Start Num: 32

Candidate Starts for GUmbie_57:

(25, 39408), (Start: 32 @39435 has 148 MA's), (Start: 45 @39459 has 31 MA's), (55, 39474), (74, 39519), (Start: 76 @39531 has 19 MA's), (92, 39609), (95, 39621), (104, 39645), (105, 39657), (117, 39708),

Gene: Gabriela_80 Start: 53324, Stop: 53560, Start Num: 76

Candidate Starts for Gabriela_80:

(Start: 41 @53264 has 34 MA's), (Start: 76 @53324 has 19 MA's), (86, 53369), (89, 53381), (95, 53417), (105, 53471), (106, 53474),

Gene: Gage_95 Start: 56798, Stop: 57058, Start Num: 54

Candidate Starts for Gage_95:

(Start: 54 @56798 has 125 MA's), (68, 56819), (85, 56894), (96, 56963), (108, 57029),

Gene: Galactic_58 Start: 39901, Stop: 40179, Start Num: 32

Candidate Starts for Galactic_58:

(25, 39874), (Start: 32 @39901 has 148 MA's), (75, 39985), (77, 39994), (90, 40057), (92, 40072), (95, 40084), (104, 40108), (105, 40120), (117, 40171),

Gene: Gancho_74 Start: 48624, Stop: 48932, Start Num: 21

Candidate Starts for Gancho_74:

(19, 48618), (Start: 21 @48624 has 20 MA's), (Start: 27 @48651 has 2 MA's), (Start: 39 @48684 has 12 MA's), (78, 48786), (109, 48924),

Gene: Gandalph_62 Start: 40257, Stop: 40538, Start Num: 32

Candidate Starts for Gandalph_62:

(25, 40230), (Start: 32 @40257 has 148 MA's), (Start: 45 @40281 has 31 MA's), (55, 40296), (74, 40341), (Start: 76 @40353 has 19 MA's), (92, 40431), (95, 40443), (104, 40467), (105, 40479), (117, 40530),

Gene: Ganymede_51 Start: 37786, Stop: 38049, Start Num: 37

Candidate Starts for Ganymede_51:

(Start: 37 @37786 has 83 MA's), (90, 37927),

Gene: Gardann_81 Start: 53753, Stop: 54049, Start Num: 41

Candidate Starts for Gardann_81:

(Start: 41 @53753 has 34 MA's), (Start: 76 @53813 has 19 MA's), (86, 53858), (89, 53870), (95, 53906), (105, 53960), (106, 53963),

Gene: Gator_91 Start: 56582, Stop: 56842, Start Num: 54

Candidate Starts for Gator_91:

(12, 56444), (Start: 54 @56582 has 125 MA's), (68, 56603), (96, 56747), (108, 56813),

Gene: Gemini_98 Start: 57174, Stop: 57434, Start Num: 54

Candidate Starts for Gemini_98:

(Start: 54 @57174 has 125 MA's), (68, 57195), (85, 57270), (96, 57339), (108, 57405),

Gene: Geraldini_53 Start: 38403, Stop: 38666, Start Num: 37

Candidate Starts for Geraldini_53:

(Start: 37 @38403 has 83 MA's), (70, 38457), (73, 38463), (90, 38544),

Gene: GigiOuiOui_55 Start: 38875, Stop: 39156, Start Num: 32

Candidate Starts for GigiOuiOui_55:

(25, 38848), (Start: 32 @38875 has 148 MA's), (Start: 45 @38899 has 31 MA's), (55, 38914), (74, 38959), (Start: 76 @38971 has 19 MA's), (90, 39034), (92, 39049), (95, 39061), (104, 39085), (105, 39097), (117, 39148),

Gene: Giles_68 Start: 48849, Stop: 49157, Start Num: 21

Candidate Starts for Giles_68:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: Girr_57 Start: 39742, Stop: 40020, Start Num: 32

Candidate Starts for Girr_57:

(25, 39715), (Start: 32 @39742 has 148 MA's), (75, 39826), (77, 39835), (90, 39898), (92, 39913), (95, 39925), (104, 39949), (105, 39961), (117, 40012),

Gene: Glexan_92 Start: 56857, Stop: 57117, Start Num: 54

Candidate Starts for Glexan_92:

(Start: 54 @56857 has 125 MA's), (68, 56878), (85, 56953), (96, 57022), (108, 57088),

Gene: Gmala1_46 Start: 43387, Stop: 43169, Start Num: 52

Candidate Starts for Gmala1_46:

(Start: 52 @43387 has 1 MA's), (69, 43348), (77, 43318), (82, 43288),

Gene: Goku_92 Start: 56793, Stop: 57053, Start Num: 54

Candidate Starts for Goku_92:

(Start: 54 @56793 has 125 MA's), (68, 56814), (85, 56889), (96, 56958), (108, 57024),

Gene: GoldenSpark_97 Start: 56657, Stop: 56917, Start Num: 54

Candidate Starts for GoldenSpark_97:

(Start: 54 @56657 has 125 MA's), (68, 56678), (85, 56753), (96, 56822), (108, 56888),

Gene: Goldilocks_96 Start: 56015, Stop: 56275, Start Num: 54

Candidate Starts for Goldilocks_96:

(Start: 54 @56015 has 125 MA's), (68, 56036), (85, 56111), (96, 56180), (108, 56246),

Gene: GooberAzure_96 Start: 56657, Stop: 56917, Start Num: 54

Candidate Starts for GooberAzure_96:

(Start: 54 @56657 has 125 MA's), (68, 56678), (85, 56753), (96, 56822), (108, 56888),

Gene: GordDuk1_47 Start: 43538, Stop: 43320, Start Num: 52

Candidate Starts for GordDuk1_47:

(Start: 52 @43538 has 1 MA's), (69, 43499), (77, 43469), (82, 43439),

Gene: GordTnk2_48 Start: 43692, Stop: 43468, Start Num: 52

Candidate Starts for GordTnk2_48:

(Start: 52 @43692 has 1 MA's), (69, 43653), (82, 43593),

Gene: Gorge_63 Start: 41377, Stop: 41658, Start Num: 32

Candidate Starts for Gorge_63:

(25, 41350), (Start: 32 @41377 has 148 MA's), (Start: 45 @41401 has 31 MA's), (55, 41416), (74, 41461), (Start: 76 @41473 has 19 MA's), (92, 41551), (95, 41563), (104, 41587), (105, 41599), (117, 41650),

Gene: Gravaillia_69 Start: 48905, Stop: 49213, Start Num: 21

Candidate Starts for Gravaillia_69:

(19, 48899), (Start: 21 @48905 has 20 MA's), (Start: 27 @48932 has 2 MA's), (Start: 39 @48965 has 12 MA's), (78, 49067), (87, 49094), (109, 49205),

Gene: Grimmer_69 Start: 41537, Stop: 41815, Start Num: 32

Candidate Starts for Grimmer_69:

(25, 41510), (Start: 32 @41537 has 148 MA's), (75, 41621), (90, 41693), (92, 41708), (95, 41720), (104, 41744), (105, 41756), (117, 41807),

Gene: Guanica15_53 Start: 37156, Stop: 37407, Start Num: 44

Candidate Starts for Guanica15_53:

(Start: 37 @37144 has 83 MA's), (Start: 44 @37156 has 2 MA's), (87, 37267), (90, 37285),

Gene: Guey18_98 Start: 48765, Stop: 49070, Start Num: 43

Candidate Starts for Guey18_98:

(Start: 43 @48765 has 10 MA's), (70, 48798), (111, 48999), (118, 49023),

Gene: GuuelaD_79 Start: 54093, Stop: 54329, Start Num: 76

Candidate Starts for GuuelaD_79:

(Start: 41 @54033 has 34 MA's), (Start: 76 @54093 has 19 MA's), (86, 54138), (89, 54150), (95, 54186), (105, 54240), (106, 54243),

Gene: HH92_74 Start: 48849, Stop: 49157, Start Num: 21

Candidate Starts for HH92_74:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: Hades_60 Start: 40833, Stop: 41114, Start Num: 32

Candidate Starts for Hades_60:

(25, 40806), (Start: 32 @40833 has 148 MA's), (Start: 45 @40857 has 31 MA's), (55, 40872), (74, 40917), (Start: 76 @40929 has 19 MA's), (92, 41007), (95, 41019), (104, 41043), (105, 41055), (117, 41106),

Gene: Hadrien_72 Start: 48849, Stop: 49157, Start Num: 21

Candidate Starts for Hadrien_72:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: Hafay_82 Start: 53908, Stop: 54144, Start Num: 76

Candidate Starts for Hafay_82:

(Start: 41 @53848 has 34 MA's), (Start: 76 @53908 has 19 MA's), (86, 53953), (89, 53965), (95, 54001), (104, 54043), (105, 54055), (106, 54058),

Gene: Hail_68 Start: 48849, Stop: 49157, Start Num: 21

Candidate Starts for Hail_68:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: Halena_76 Start: 51262, Stop: 51552, Start Num: 51

Candidate Starts for Halena_76:

(Start: 41 @51247 has 34 MA's), (Start: 51 @51262 has 12 MA's), (Start: 76 @51322 has 19 MA's), (90, 51385), (95, 51412), (122, 51535), (123, 51538),

Gene: Hammy_53 Start: 38432, Stop: 38686, Start Num: 46

Candidate Starts for Hammy_53:

(4, 38114), (8, 38183), (10, 38279), (Start: 46 @38432 has 8 MA's), (Start: 76 @38498 has 19 MA's), (90, 38561), (102, 38606),

Gene: HanKaySha_94 Start: 56224, Stop: 56484, Start Num: 54

Candidate Starts for HanKaySha_94:

(Start: 54 @56224 has 125 MA's), (68, 56245), (85, 56320), (96, 56389), (108, 56455),

Gene: Harella_93 Start: 57373, Stop: 57633, Start Num: 54

Candidate Starts for Harella_93:

(Start: 54 @57373 has 125 MA's), (68, 57394), (85, 57469), (96, 57538), (108, 57604),

Gene: HedwigODU_50 Start: 37356, Stop: 37619, Start Num: 37

Candidate Starts for HedwigODU_50:

(Start: 37 @37356 has 83 MA's), (90, 37497),

Gene: Hegedechwinu_59 Start: 39047, Stop: 39328, Start Num: 32

Candidate Starts for Hegedechwinu_59:

(Start: 32 @39047 has 148 MA's), (Start: 45 @39071 has 31 MA's), (55, 39086), (74, 39131), (Start: 76 @39143 has 19 MA's), (92, 39221), (95, 39233), (104, 39257), (105, 39269), (117, 39320),

Gene: Henry_91 Start: 56534, Stop: 56794, Start Num: 54

Candidate Starts for Henry_91:

(Start: 54 @56534 has 125 MA's), (68, 56555), (85, 56630), (96, 56699), (108, 56765),

Gene: Highbury_92 Start: 56224, Stop: 56484, Start Num: 54

Candidate Starts for Highbury_92:

(Start: 54 @56224 has 125 MA's), (68, 56245), (85, 56320), (96, 56389), (108, 56455),

Gene: Hlubikazi_55 Start: 38053, Stop: 38334, Start Num: 32

Candidate Starts for Hlubikazi_55:

(25, 38026), (Start: 32 @38053 has 148 MA's), (Start: 45 @38077 has 31 MA's), (55, 38092), (74, 38137), (Start: 76 @38149 has 19 MA's), (92, 38227), (95, 38239), (104, 38263), (105, 38275), (117, 38326),

Gene: Hollow_40 Start: 44620, Stop: 44420, Start Num: 67

Candidate Starts for Hollow_40:

(Start: 67 @44620 has 9 MA's),

Gene: Holt_98 Start: 57071, Stop: 57331, Start Num: 54

Candidate Starts for Holt_98:

(Start: 54 @57071 has 125 MA's), (68, 57092), (85, 57167), (96, 57236), (108, 57302),

Gene: Homura_50 Start: 37471, Stop: 37734, Start Num: 37

Candidate Starts for Homura_50:
(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: Hoonter_96 Start: 56529, Stop: 56789, Start Num: 54
Candidate Starts for Hoonter_96:
(Start: 54 @56529 has 125 MA's), (68, 56550), (85, 56625), (96, 56694), (108, 56760),

Gene: Hokey_94 Start: 57035, Stop: 57295, Start Num: 54
Candidate Starts for Hokey_94:
(Start: 54 @57035 has 125 MA's), (68, 57056), (85, 57131), (96, 57200), (108, 57266),

Gene: HufflyPuff_95 Start: 57119, Stop: 57379, Start Num: 54
Candidate Starts for HufflyPuff_95:
(Start: 54 @57119 has 125 MA's), (68, 57140), (85, 57215), (96, 57284), (108, 57350),

Gene: Hurricane_53 Start: 37919, Stop: 38188, Start Num: 39
Candidate Starts for Hurricane_53:
(8, 37679), (15, 37823), (Start: 39 @37919 has 12 MA's), (56, 37943), (90, 38063), (104, 38117),

Gene: Hyperbowlee_50 Start: 37668, Stop: 37931, Start Num: 37
Candidate Starts for Hyperbowlee_50:
(Start: 37 @37668 has 83 MA's), (90, 37809),

Gene: IHOP_91 Start: 56697, Stop: 56957, Start Num: 54
Candidate Starts for IHOP_91:
(Start: 54 @56697 has 125 MA's), (68, 56718), (85, 56793), (96, 56862), (108, 56928),

Gene: lbOuu_60 Start: 40412, Stop: 40696, Start Num: 32
Candidate Starts for lbOuu_60:
(Start: 32 @40412 has 148 MA's), (Start: 45 @40436 has 31 MA's), (55, 40451), (74, 40496), (Start: 76 @40508 has 19 MA's), (92, 40586), (95, 40598), (104, 40622), (105, 40634), (117, 40688),

Gene: lbhubesi_59 Start: 40025, Stop: 40303, Start Num: 32
Candidate Starts for lbhubesi_59:
(25, 39998), (Start: 32 @40025 has 148 MA's), (75, 40109), (77, 40118), (92, 40196), (95, 40208), (104, 40232), (105, 40244), (117, 40295),

Gene: Ibrahim_41 Start: 31892, Stop: 32149, Start Num: 38
Candidate Starts for Ibrahim_41:
(6, 31616), (7, 31637), (Start: 38 @31892 has 7 MA's), (Start: 76 @31976 has 19 MA's), (95, 32066),

Gene: Icee_94 Start: 56184, Stop: 56444, Start Num: 54
Candidate Starts for Icee_94:
(Start: 54 @56184 has 125 MA's), (68, 56205), (85, 56280), (96, 56349), (108, 56415),

Gene: IdentityCrisis_42 Start: 29075, Stop: 29332, Start Num: 58
Candidate Starts for IdentityCrisis_42:
(Start: 58 @29075 has 1 MA's), (65, 29090), (80, 29150), (85, 29168),

Gene: Ididsumtinwong_41 Start: 27555, Stop: 27854, Start Num: 39
Candidate Starts for Ididsumtinwong_41:
(5, 27267), (9, 27312), (20, 27486), (Start: 39 @27555 has 12 MA's), (95, 27717),

Gene: Illumine_53 Start: 38105, Stop: 38368, Start Num: 37
Candidate Starts for Illumine_53:
(8, 37853), (Start: 37 @38105 has 83 MA's), (70, 38159), (90, 38246),

Gene: Inca_90 Start: 55186, Stop: 55446, Start Num: 54
Candidate Starts for Inca_90:
(Start: 54 @55186 has 125 MA's), (68, 55207), (85, 55282), (96, 55351), (108, 55417),

Gene: Inky_50 Start: 37471, Stop: 37734, Start Num: 37
Candidate Starts for Inky_50:
(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: Inventum_54 Start: 39529, Stop: 39807, Start Num: 32
Candidate Starts for Inventum_54:
(25, 39502), (Start: 32 @39529 has 148 MA's), (75, 39613), (77, 39622), (90, 39685), (92, 39700), (95, 39712), (104, 39736), (105, 39748), (117, 39799),

Gene: IrishSherpFalk_60 Start: 41690, Stop: 41971, Start Num: 32
Candidate Starts for IrishSherpFalk_60:
(25, 41663), (Start: 32 @41690 has 148 MA's), (Start: 45 @41714 has 31 MA's), (55, 41729), (74, 41774), (Start: 76 @41786 has 19 MA's), (92, 41864), (95, 41876), (104, 41900), (105, 41912), (117, 41963),

Gene: Itos_80 Start: 52824, Stop: 53120, Start Num: 41
Candidate Starts for Itos_80:
(Start: 41 @52824 has 34 MA's), (Start: 76 @52884 has 19 MA's), (86, 52929), (89, 52941), (95, 52977), (105, 53031), (106, 53034),

Gene: JAWS_50 Start: 37345, Stop: 37608, Start Num: 37
Candidate Starts for JAWS_50:
(Start: 37 @37345 has 83 MA's), (90, 37486),

Gene: Jabbawokkie_73 Start: 41755, Stop: 42039, Start Num: 32
Candidate Starts for Jabbawokkie_73:
(25, 41728), (Start: 32 @41755 has 148 MA's), (Start: 45 @41779 has 31 MA's), (55, 41794), (74, 41839), (Start: 76 @41851 has 19 MA's), (92, 41929), (95, 41941), (104, 41965), (105, 41977), (117, 42031),

Gene: James_63 Start: 41502, Stop: 41783, Start Num: 32
Candidate Starts for James_63:
(25, 41475), (Start: 32 @41502 has 148 MA's), (Start: 45 @41526 has 31 MA's), (55, 41541), (74, 41586), (Start: 76 @41598 has 19 MA's), (92, 41676), (95, 41688), (104, 41712), (105, 41724), (117, 41775),

Gene: Jacob_59 Start: 39980, Stop: 40264, Start Num: 32
Candidate Starts for Jacob_59:
(25, 39953), (Start: 32 @39980 has 148 MA's), (Start: 45 @40004 has 31 MA's), (55, 40019), (74, 40064), (Start: 76 @40076 has 19 MA's), (92, 40154), (95, 40166), (104, 40190), (105, 40202), (117, 40256),

Gene: Jarvi_50 Start: 37471, Stop: 37734, Start Num: 37
Candidate Starts for Jarvi_50:
(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: Jayhawk_51 Start: 37354, Stop: 37617, Start Num: 37
Candidate Starts for Jayhawk_51:
(Start: 37 @37354 has 83 MA's), (90, 37495),

Gene: JeTaime_94 Start: 57387, Stop: 57647, Start Num: 54
Candidate Starts for JeTaime_94:
(Start: 54 @57387 has 125 MA's), (68, 57408), (85, 57483), (96, 57552), (108, 57618),

Gene: Jeckyll_50 Start: 37471, Stop: 37734, Start Num: 37
Candidate Starts for Jeckyll_50:
(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: Jinglebell_64 Start: 42540, Stop: 42818, Start Num: 32
Candidate Starts for Jinglebell_64:
(25, 42513), (Start: 32 @42540 has 148 MA's), (75, 42624), (77, 42633), (90, 42696), (92, 42711), (95, 42723), (104, 42747), (105, 42759), (117, 42810),

Gene: Job42_61 Start: 41920, Stop: 42201, Start Num: 32
Candidate Starts for Job42_61:
(25, 41893), (Start: 32 @41920 has 148 MA's), (75, 42004), (77, 42013), (90, 42076), (92, 42091), (95, 42103), (104, 42127), (105, 42139), (117, 42193),

Gene: Jobypre_79 Start: 53794, Stop: 54063, Start Num: 41
Candidate Starts for Jobypre_79:
(Start: 41 @53794 has 34 MA's), (Start: 51 @53809 has 12 MA's), (95, 53944), (104, 53986), (108, 54022), (114, 54046),

Gene: JoeDirt_78 Start: 52575, Stop: 52880, Start Num: 41
Candidate Starts for JoeDirt_78:
(Start: 41 @52575 has 34 MA's), (Start: 51 @52590 has 12 MA's), (Start: 76 @52650 has 19 MA's), (90, 52713), (95, 52740), (105, 52794), (122, 52863), (123, 52866),

Gene: JoeyJr_54 Start: 38435, Stop: 38713, Start Num: 32
Candidate Starts for JoeyJr_54:
(25, 38408), (Start: 32 @38435 has 148 MA's), (75, 38519), (77, 38528), (90, 38591), (92, 38606), (95, 38618), (104, 38642), (105, 38654), (117, 38705),

Gene: Journey_43 Start: 30217, Stop: 30516, Start Num: 33
Candidate Starts for Journey_43:
(Start: 33 @30217 has 6 MA's), (42, 30235), (63, 30271), (Start: 71 @30286 has 1 MA's), (90, 30382), (104, 30433), (108, 30469), (116, 30502), (119, 30508),

Gene: Joy99_50 Start: 37400, Stop: 37663, Start Num: 37
Candidate Starts for Joy99_50:
(Start: 37 @37400 has 83 MA's), (90, 37541),

Gene: Jubie_78 Start: 53929, Stop: 54198, Start Num: 41
Candidate Starts for Jubie_78:
(Start: 41 @53929 has 34 MA's), (Start: 51 @53944 has 12 MA's), (95, 54079), (104, 54121), (108, 54157), (114, 54181),

Gene: Jumbo_47 Start: 48027, Stop: 47818, Start Num: 52

Candidate Starts for Jumbo_47:
(Start: 52 @48027 has 1 MA's),

Gene: Kahlid_81 Start: 53924, Stop: 54220, Start Num: 41
Candidate Starts for Kahlid_81:
(Start: 41 @53924 has 34 MA's), (Start: 76 @53984 has 19 MA's), (86, 54029), (89, 54041), (95, 54077), (105, 54131), (106, 54134),

Gene: Kanye_90 Start: 56281, Stop: 56541, Start Num: 54
Candidate Starts for Kanye_90:
(Start: 54 @56281 has 125 MA's), (68, 56302), (85, 56377), (96, 56446), (108, 56512),

Gene: Karhdo_56 Start: 39525, Stop: 39809, Start Num: 32
Candidate Starts for Karhdo_56:
(25, 39498), (Start: 32 @39525 has 148 MA's), (Start: 45 @39549 has 31 MA's), (55, 39564), (74, 39609), (Start: 76 @39621 has 19 MA's), (92, 39699), (95, 39711), (104, 39735), (105, 39747), (117, 39801),

Gene: Katyusha_39 Start: 44274, Stop: 44074, Start Num: 67
Candidate Starts for Katyusha_39:
(Start: 67 @44274 has 9 MA's),

Gene: Keelan_94 Start: 48287, Stop: 48550, Start Num: 43
Candidate Starts for Keelan_94:
(Start: 43 @48287 has 10 MA's), (79, 48365), (90, 48419), (115, 48542),

Gene: Kersh_61 Start: 42278, Stop: 42559, Start Num: 32
Candidate Starts for Kersh_61:
(25, 42251), (Start: 32 @42278 has 148 MA's), (Start: 45 @42302 has 31 MA's), (55, 42317), (74, 42362), (Start: 76 @42374 has 19 MA's), (104, 42488), (105, 42500), (117, 42551),

Gene: Keshu_55 Start: 37986, Stop: 38255, Start Num: 39
Candidate Starts for Keshu_55:
(8, 37746), (Start: 39 @37986 has 12 MA's), (56, 38010), (90, 38130), (104, 38184),

Gene: KiSi_55 Start: 38687, Stop: 38956, Start Num: 48
Candidate Starts for KiSi_55:
(Start: 45 @38681 has 31 MA's), (Start: 48 @38687 has 2 MA's), (70, 38729), (Start: 76 @38753 has 19 MA's), (102, 38861), (121, 38945),

Gene: Kimberlium_62 Start: 41811, Stop: 42092, Start Num: 32
Candidate Starts for Kimberlium_62:
(23, 41775), (Start: 32 @41811 has 148 MA's), (Start: 45 @41835 has 31 MA's), (74, 41892), (Start: 76 @41904 has 19 MA's), (92, 41982), (95, 41994), (104, 42018), (105, 42030), (117, 42084),

Gene: Kimchi_97 Start: 56801, Stop: 57061, Start Num: 54
Candidate Starts for Kimchi_97:
(Start: 54 @56801 has 125 MA's), (68, 56822), (85, 56897), (96, 56966), (108, 57032),

Gene: Kinbote_73 Start: 48849, Stop: 49157, Start Num: 21
Candidate Starts for Kinbote_73:
(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: KingMidas_58 Start: 40097, Stop: 40375, Start Num: 32

Candidate Starts for KingMidas_58:

(25, 40070), (Start: 32 @40097 has 148 MA's), (75, 40181), (77, 40190), (90, 40253), (92, 40268), (95, 40280), (104, 40304), (105, 40316), (117, 40367),

Gene: Kingsolomon_77 Start: 53801, Stop: 54070, Start Num: 41

Candidate Starts for Kingsolomon_77:

(Start: 41 @53801 has 34 MA's), (Start: 51 @53816 has 12 MA's), (95, 53951), (104, 53993), (108, 54029), (114, 54053),

Gene: KirDoubleO7_77 Start: 53797, Stop: 54084, Start Num: 51

Candidate Starts for KirDoubleO7_77:

(Start: 41 @53782 has 34 MA's), (Start: 51 @53797 has 12 MA's), (95, 53935),

Gene: Koella_53 Start: 35910, Stop: 36194, Start Num: 32

Candidate Starts for Koella_53:

(25, 35883), (Start: 32 @35910 has 148 MA's), (Start: 45 @35934 has 31 MA's), (55, 35949), (74, 35994), (Start: 76 @36006 has 19 MA's), (92, 36084), (95, 36096), (104, 36120), (105, 36132), (117, 36186),

Gene: Kostya_93 Start: 56799, Stop: 57059, Start Num: 54

Candidate Starts for Kostya_93:

(Start: 54 @56799 has 125 MA's), (68, 56820), (85, 56895), (96, 56964), (108, 57030),

Gene: KristaRAM_62 Start: 42482, Stop: 42763, Start Num: 32

Candidate Starts for KristaRAM_62:

(25, 42455), (Start: 32 @42482 has 148 MA's), (Start: 45 @42506 has 31 MA's), (55, 42521), (74, 42566), (Start: 76 @42578 has 19 MA's), (92, 42656), (95, 42668), (104, 42692), (105, 42704), (117, 42755),

Gene: Kropertea_75 Start: 52480, Stop: 52770, Start Num: 43

Candidate Starts for Kropertea_75:

(Start: 43 @52480 has 10 MA's), (70, 52510), (Start: 76 @52534 has 19 MA's), (89, 52591), (90, 52600), (95, 52627), (101, 52657), (106, 52684),

Gene: Krueger_57 Start: 38145, Stop: 38396, Start Num: 45

Candidate Starts for Krueger_57:

(Start: 45 @38145 has 31 MA's), (Start: 48 @38151 has 2 MA's), (87, 38265), (88, 38271), (90, 38283),

Gene: Krypton555_80 Start: 54028, Stop: 54342, Start Num: 41

Candidate Starts for Krypton555_80:

(Start: 41 @54028 has 34 MA's), (Start: 51 @54043 has 12 MA's), (89, 54154), (95, 54190), (124, 54322),

Gene: Kvothe_39 Start: 44173, Stop: 43973, Start Num: 67

Candidate Starts for Kvothe_39:

(Start: 67 @44173 has 9 MA's),

Gene: LastHope_53 Start: 36640, Stop: 36891, Start Num: 44

Candidate Starts for LastHope_53:

(Start: 37 @36628 has 83 MA's), (Start: 44 @36640 has 2 MA's), (70, 36682), (87, 36751), (90, 36769),

Gene: LastJedi_53 Start: 37230, Stop: 37511, Start Num: 32

Candidate Starts for LastJedi_53:

(25, 37203), (Start: 32 @37230 has 148 MA's), (Start: 45 @37254 has 31 MA's), (55, 37269), (74, 37314), (Start: 76 @37326 has 19 MA's), (92, 37404), (95, 37416), (104, 37440), (105, 37452), (117, 37503),

Gene: LaterM_51 Start: 38233, Stop: 38496, Start Num: 37

Candidate Starts for LaterM_51:

(Start: 37 @38233 has 83 MA's), (70, 38287), (90, 38374),

Gene: Latretium_61 Start: 40556, Stop: 40837, Start Num: 32

Candidate Starts for Latretium_61:

(25, 40529), (Start: 32 @40556 has 148 MA's), (Start: 45 @40580 has 31 MA's), (55, 40595), (74, 40640), (Start: 76 @40652 has 19 MA's), (92, 40730), (95, 40742), (104, 40766), (105, 40778), (117, 40829),

Gene: LeBron_77 Start: 51321, Stop: 51551, Start Num: 76

Candidate Starts for LeBron_77:

(Start: 41 @51246 has 34 MA's), (Start: 51 @51261 has 12 MA's), (Start: 76 @51321 has 19 MA's), (90, 51384), (95, 51411), (122, 51534), (123, 51537),

Gene: LeMond_55 Start: 38671, Stop: 38940, Start Num: 48

Candidate Starts for LeMond_55:

(Start: 45 @38665 has 31 MA's), (Start: 48 @38671 has 2 MA's), (70, 38713), (Start: 76 @38737 has 19 MA's), (102, 38845), (121, 38929),

Gene: Lea83_54 Start: 37972, Stop: 38241, Start Num: 39

Candidate Starts for Lea83_54:

(1, 37507), (8, 37732), (Start: 39 @37972 has 12 MA's), (56, 37996), (90, 38116), (104, 38170),

Gene: Leozinho_58 Start: 39315, Stop: 39593, Start Num: 32

Candidate Starts for Leozinho_58:

(25, 39288), (Start: 32 @39315 has 148 MA's), (75, 39399), (77, 39408), (90, 39471), (92, 39486), (95, 39498), (104, 39522), (105, 39534), (117, 39585),

Gene: Leperchaun_51 Start: 37665, Stop: 37943, Start Num: 32

Candidate Starts for Leperchaun_51:

(25, 37638), (Start: 32 @37665 has 148 MA's), (75, 37749), (77, 37758), (90, 37821), (92, 37836), (95, 37848), (104, 37872), (105, 37884), (117, 37935),

Gene: Lewan_82 Start: 54036, Stop: 54272, Start Num: 76

Candidate Starts for Lewan_82:

(Start: 41 @53976 has 34 MA's), (Start: 76 @54036 has 19 MA's), (86, 54081), (89, 54093), (95, 54129), (105, 54183), (106, 54186),

Gene: LilDestine_80 Start: 53888, Stop: 54124, Start Num: 76

Candidate Starts for LilDestine_80:

(Start: 41 @53828 has 34 MA's), (Start: 76 @53888 has 19 MA's), (86, 53933), (89, 53945), (95, 53981), (106, 54038),

Gene: LilHazelnut_75 Start: 48849, Stop: 49157, Start Num: 21

Candidate Starts for LilHazelnut_75:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: LilMoolah_57 Start: 39425, Stop: 39706, Start Num: 32

Candidate Starts for LilMoolah_57:

(25, 39398), (Start: 32 @39425 has 148 MA's), (75, 39509), (77, 39518), (90, 39581), (92, 39596), (95, 39608), (104, 39632), (105, 39644), (117, 39698),

Gene: LilPharaoh_46 Start: 36768, Stop: 37037, Start Num: 45

Candidate Starts for LilPharaoh_46:

(Start: 45 @36768 has 31 MA's), (80, 36864), (93, 36924), (94, 36930), (95, 36933), (104, 36960), (105, 36972), (116, 37026),

Gene: Lilac_96 Start: 56626, Stop: 56886, Start Num: 54

Candidate Starts for Lilac_96:

(Start: 54 @56626 has 125 MA's), (68, 56647), (85, 56722), (96, 56791), (108, 56857),

Gene: Lilizi_94 Start: 56263, Stop: 56523, Start Num: 54

Candidate Starts for Lilizi_94:

(Start: 54 @56263 has 125 MA's), (68, 56284), (85, 56359), (96, 56428), (108, 56494),

Gene: Lilpickle_92 Start: 56151, Stop: 56411, Start Num: 54

Candidate Starts for Lilpickle_92:

(Start: 54 @56151 has 125 MA's), (68, 56172), (85, 56247), (96, 56316), (108, 56382),

Gene: LindNT_49 Start: 37556, Stop: 37819, Start Num: 37

Candidate Starts for LindNT_49:

(Start: 37 @37556 has 83 MA's), (70, 37610), (90, 37697),

Gene: Lishka_37 Start: 25254, Stop: 25553, Start Num: 39

Candidate Starts for Lishka_37:

(5, 24966), (9, 25011), (20, 25185), (Start: 39 @25254 has 12 MA's), (95, 25416),

Gene: LiyuLake_78 Start: 53870, Stop: 54157, Start Num: 51

Candidate Starts for LiyuLake_78:

(Start: 41 @53855 has 34 MA's), (Start: 51 @53870 has 12 MA's), (95, 54008),

Gene: Lizziana_65 Start: 40983, Stop: 41264, Start Num: 32

Candidate Starts for Lizziana_65:

(25, 40956), (Start: 32 @40983 has 148 MA's), (Start: 45 @41007 has 31 MA's), (55, 41022), (74, 41067), (Start: 76 @41079 has 19 MA's), (92, 41157), (95, 41169), (104, 41193), (105, 41205), (117, 41256),

Gene: Llama_64 Start: 42394, Stop: 42672, Start Num: 32

Candidate Starts for Llama_64:

(25, 42367), (Start: 32 @42394 has 148 MA's), (75, 42478), (77, 42487), (90, 42550), (92, 42565), (95, 42577), (104, 42601), (105, 42613), (117, 42664),

Gene: Llij_55 Start: 38833, Stop: 39117, Start Num: 32

Candidate Starts for Llij_55:

(25, 38806), (Start: 32 @38833 has 148 MA's), (Start: 45 @38857 has 31 MA's), (55, 38872), (74, 38917), (Start: 76 @38929 has 19 MA's), (92, 39007), (95, 39019), (104, 39043), (105, 39055), (117, 39109),

Gene: Llorens_50 Start: 37471, Stop: 37734, Start Num: 37

Candidate Starts for Llorens_50:

(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: Loadrie_80 Start: 54063, Stop: 54299, Start Num: 76

Candidate Starts for Loadrie_80:

(Start: 41 @54003 has 34 MA's), (Start: 76 @54063 has 19 MA's), (86, 54108), (89, 54120), (95, 54156), (105, 54210), (106, 54213),

Gene: Lolly9_78 Start: 53913, Stop: 54164, Start Num: 51

Candidate Starts for Lolly9_78:

(Start: 41 @53898 has 34 MA's), (Start: 51 @53913 has 12 MA's), (104, 54090), (114, 54150),

Gene: Lorde_59 Start: 38120, Stop: 38404, Start Num: 32

Candidate Starts for Lorde_59:

(25, 38093), (Start: 32 @38120 has 148 MA's), (Start: 45 @38144 has 31 MA's), (55, 38159), (74, 38204), (Start: 76 @38216 has 19 MA's), (92, 38294), (95, 38306), (104, 38330), (105, 38342), (117, 38396),

Gene: Luke_72 Start: 48804, Stop: 49112, Start Num: 21

Candidate Starts for Luke_72:

(19, 48798), (Start: 21 @48804 has 20 MA's), (Start: 27 @48831 has 2 MA's), (Start: 39 @48864 has 12 MA's), (78, 48966), (87, 48993), (109, 49104),

Gene: Luna22_68 Start: 48833, Stop: 49141, Start Num: 21

Candidate Starts for Luna22_68:

(19, 48827), (Start: 21 @48833 has 20 MA's), (Start: 27 @48860 has 2 MA's), (Start: 39 @48893 has 12 MA's), (78, 48995), (87, 49022), (109, 49133),

Gene: LunaBlu_61 Start: 40560, Stop: 40838, Start Num: 32

Candidate Starts for LunaBlu_61:

(25, 40533), (Start: 32 @40560 has 148 MA's), (75, 40644), (77, 40653), (90, 40716), (92, 40731), (95, 40743), (104, 40767), (105, 40779), (117, 40830),

Gene: LunaStella_58 Start: 39407, Stop: 39685, Start Num: 32

Candidate Starts for LunaStella_58:

(22, 39371), (Start: 32 @39407 has 148 MA's), (Start: 40 @39416 has 1 MA's), (70, 39473), (75, 39491), (77, 39500), (90, 39563), (92, 39578), (95, 39590), (104, 39614), (105, 39626), (117, 39677),

Gene: Lunahalos_50 Start: 37471, Stop: 37734, Start Num: 37

Candidate Starts for Lunahalos_50:

(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: MAckerman_76 Start: 51240, Stop: 51545, Start Num: 41

Candidate Starts for MAckerman_76:

(Start: 41 @51240 has 34 MA's), (Start: 51 @51255 has 12 MA's), (Start: 76 @51315 has 19 MA's), (90, 51378), (95, 51405), (122, 51528), (123, 51531),

Gene: MISSy_94 Start: 56379, Stop: 56639, Start Num: 54

Candidate Starts for MISSy_94:

(Start: 54 @56379 has 125 MA's), (68, 56400), (85, 56475), (96, 56544), (108, 56610),

Gene: MPhalcon_94 Start: 56372, Stop: 56632, Start Num: 54
Candidate Starts for MPhalcon_94:
(Start: 54 @56372 has 125 MA's), (68, 56393), (85, 56468), (96, 56537), (108, 56603),

Gene: MacKat_45 Start: 32871, Stop: 33134, Start Num: 37
Candidate Starts for MacKat_45:
(Start: 37 @32871 has 83 MA's), (90, 33012),

Gene: MacnCheese_55 Start: 38928, Stop: 39194, Start Num: 39
Candidate Starts for MacnCheese_55:
(8, 38688), (Start: 39 @38928 has 12 MA's), (56, 38949), (60, 38955), (90, 39069), (102, 39114), (104, 39123),

Gene: MadMen_57 Start: 39757, Stop: 40041, Start Num: 32
Candidate Starts for MadMen_57:
(25, 39730), (Start: 32 @39757 has 148 MA's), (Start: 45 @39781 has 31 MA's), (55, 39796), (74, 39841), (Start: 76 @39853 has 19 MA's), (92, 39931), (95, 39943), (104, 39967), (105, 39979), (117, 40033),

Gene: MadamMonkfish_93 Start: 55878, Stop: 56138, Start Num: 54
Candidate Starts for MadamMonkfish_93:
(Start: 54 @55878 has 125 MA's), (68, 55899), (85, 55974), (96, 56043), (108, 56109),

Gene: Mahavrat_57 Start: 39385, Stop: 39666, Start Num: 32
Candidate Starts for Mahavrat_57:
(25, 39358), (Start: 32 @39385 has 148 MA's), (Start: 45 @39409 has 31 MA's), (55, 39424), (74, 39469), (Start: 76 @39481 has 19 MA's), (92, 39559), (95, 39571), (104, 39595), (105, 39607), (117, 39658),

Gene: Manda_95 Start: 57955, Stop: 58215, Start Num: 54
Candidate Starts for Manda_95:
(Start: 54 @57955 has 125 MA's), (68, 57976), (85, 58051), (96, 58120), (108, 58186),

Gene: Mandlovu_55 Start: 37995, Stop: 38276, Start Num: 32
Candidate Starts for Mandlovu_55:
(25, 37968), (Start: 32 @37995 has 148 MA's), (Start: 45 @38019 has 31 MA's), (55, 38034), (74, 38079), (Start: 76 @38091 has 19 MA's), (92, 38169), (95, 38181), (104, 38205), (105, 38217), (117, 38268),

Gene: Maravista_60 Start: 41432, Stop: 41713, Start Num: 32
Candidate Starts for Maravista_60:
(25, 41405), (Start: 32 @41432 has 148 MA's), (Start: 45 @41456 has 31 MA's), (55, 41471), (74, 41516), (Start: 76 @41528 has 19 MA's), (92, 41606), (95, 41618), (104, 41642), (105, 41654), (117, 41705),

Gene: Marcoliusprime_54 Start: 39559, Stop: 39792, Start Num: 47
Candidate Starts for Marcoliusprime_54:
(Start: 47 @39559 has 6 MA's), (Start: 49 @39562 has 4 MA's), (Start: 54 @39568 has 125 MA's), (Start: 58 @39574 has 1 MA's), (87, 39664), (88, 39670), (104, 39733),

Gene: MarkPhew_54 Start: 38124, Stop: 38393, Start Num: 45
Candidate Starts for MarkPhew_54:

(Start: 45 @38124 has 31 MA's), (64, 38151), (70, 38166), (Start: 76 @38190 has 19 MA's), (102, 38298), (121, 38382),

Gene: Marshawn_53 Start: 38262, Stop: 38522, Start Num: 45

Candidate Starts for Marshawn_53:

(4, 37941), (8, 38010), (10, 38106), (Start: 45 @38262 has 31 MA's), (72, 38319), (95, 38427), (108, 38490),

Gene: Marshmallow_91 Start: 57427, Stop: 57687, Start Num: 54

Candidate Starts for Marshmallow_91:

(Start: 54 @57427 has 125 MA's), (68, 57448), (85, 57523), (96, 57592), (108, 57658),

Gene: Martik_59 Start: 39936, Stop: 40217, Start Num: 32

Candidate Starts for Martik_59:

(25, 39909), (Start: 32 @39936 has 148 MA's), (Start: 45 @39960 has 31 MA's), (55, 39975), (74, 40020), (Start: 76 @40032 has 19 MA's), (92, 40110), (95, 40122), (104, 40146), (105, 40158), (117, 40209),

Gene: Mattes_63 Start: 41502, Stop: 41783, Start Num: 32

Candidate Starts for Mattes_63:

(25, 41475), (Start: 32 @41502 has 148 MA's), (Start: 45 @41526 has 31 MA's), (55, 41541), (74, 41586), (Start: 76 @41598 has 19 MA's), (92, 41676), (95, 41688), (104, 41712), (105, 41724), (117, 41775),

Gene: Maxxinista_96 Start: 56793, Stop: 57053, Start Num: 54

Candidate Starts for Maxxinista_96:

(Start: 54 @56793 has 125 MA's), (68, 56814), (85, 56889), (96, 56958), (108, 57024),

Gene: Mazun_7 Start: 5279, Stop: 4962, Start Num: 29

Candidate Starts for Mazun_7:

(Start: 29 @5279 has 4 MA's), (Start: 57 @5219 has 9 MA's), (90, 5105), (105, 5030), (113, 4985),

Gene: Mbo2_39 Start: 36317, Stop: 36114, Start Num: 69

Candidate Starts for Mbo2_39:

(69, 36317),

Gene: McMater_53 Start: 38285, Stop: 38548, Start Num: 45

Candidate Starts for McMater_53:

(1, 37805), (4, 37961), (8, 38030), (Start: 45 @38285 has 31 MA's), (81, 38387), (87, 38405), (90, 38423), (104, 38477), (108, 38513), (116, 38537),

Gene: Mdavu_47 Start: 37029, Stop: 37298, Start Num: 45

Candidate Starts for Mdavu_47:

(Start: 45 @37029 has 31 MA's), (80, 37125), (93, 37185), (94, 37191), (95, 37194), (104, 37221), (105, 37233), (116, 37287),

Gene: MeaningOfLife_51 Start: 38280, Stop: 38543, Start Num: 37

Candidate Starts for MeaningOfLife_51:

(Start: 37 @38280 has 83 MA's), (90, 38421),

Gene: Megsy_52 Start: 37615, Stop: 37878, Start Num: 37

Candidate Starts for Megsy_52:

(Start: 37 @37615 has 83 MA's), (70, 37669), (90, 37756),

Gene: Mendokysei_39 Start: 30983, Stop: 31297, Start Num: 38

Candidate Starts for Mendokysei_39:

(Start: 38 @30983 has 7 MA's), (50, 30998), (70, 31037),

Gene: Miley16_81 Start: 53918, Stop: 54214, Start Num: 41

Candidate Starts for Miley16_81:

(Start: 41 @53918 has 34 MA's), (Start: 76 @53978 has 19 MA's), (86, 54023), (89, 54035), (95, 54071), (105, 54125), (106, 54128),

Gene: Milly_54 Start: 39532, Stop: 39765, Start Num: 47

Candidate Starts for Milly_54:

(Start: 47 @39532 has 6 MA's), (Start: 49 @39535 has 4 MA's), (Start: 54 @39541 has 125 MA's), (Start: 58 @39547 has 1 MA's), (87, 39637), (88, 39643), (104, 39706),

Gene: Mindy_92 Start: 55700, Stop: 55960, Start Num: 54

Candidate Starts for Mindy_92:

(Start: 54 @55700 has 125 MA's), (68, 55721), (85, 55796), (96, 55865), (108, 55931),

Gene: MiniLon_83 Start: 53899, Stop: 54165, Start Num: 41

Candidate Starts for MiniLon_83:

(Start: 41 @53899 has 34 MA's), (Start: 51 @53914 has 12 MA's), (104, 54091), (114, 54151),

Gene: MiniMac_83 Start: 53909, Stop: 54160, Start Num: 51

Candidate Starts for MiniMac_83:

(Start: 41 @53894 has 34 MA's), (Start: 51 @53909 has 12 MA's), (104, 54086), (114, 54146),

Gene: MinionDave_58 Start: 40283, Stop: 40564, Start Num: 32

Candidate Starts for MinionDave_58:

(Start: 32 @40283 has 148 MA's), (Start: 45 @40307 has 31 MA's), (55, 40322), (74, 40367), (Start: 76 @40379 has 19 MA's), (92, 40457), (95, 40469), (104, 40493), (105, 40505), (117, 40556),

Gene: Miniwave_88 Start: 56195, Stop: 56455, Start Num: 54

Candidate Starts for Miniwave_88:

(Start: 54 @56195 has 125 MA's), (68, 56216), (85, 56291), (96, 56360), (108, 56426),

Gene: Misfit_94 Start: 57669, Stop: 57929, Start Num: 54

Candidate Starts for Misfit_94:

(Start: 54 @57669 has 125 MA's), (68, 57690), (85, 57765), (96, 57834), (108, 57900),

Gene: MisterCuddles_57 Start: 39742, Stop: 40020, Start Num: 32

Candidate Starts for MisterCuddles_57:

(25, 39715), (Start: 32 @39742 has 148 MA's), (75, 39826), (77, 39835), (90, 39898), (92, 39913), (95, 39925), (104, 39949), (105, 39961), (117, 40012),

Gene: MkaliMitinis3_82 Start: 53987, Stop: 54283, Start Num: 41

Candidate Starts for MkaliMitinis3_82:

(Start: 41 @53987 has 34 MA's), (Start: 76 @54047 has 19 MA's), (86, 54092), (89, 54104), (95, 54140), (105, 54194), (106, 54197),

Gene: Modragons_63 Start: 42384, Stop: 42662, Start Num: 32

Candidate Starts for Modragons_63:

(25, 42357), (Start: 32 @42384 has 148 MA's), (75, 42468), (77, 42477), (90, 42540), (92, 42555), (95, 42567), (104, 42591), (105, 42603), (117, 42654),

Gene: Moldemort_96 Start: 56336, Stop: 56596, Start Num: 54

Candidate Starts for Moldemort_96:

(Start: 54 @56336 has 125 MA's), (68, 56357), (85, 56432), (96, 56501), (108, 56567),

Gene: Moleficient_7 Start: 5213, Stop: 4956, Start Num: 57

Candidate Starts for Moleficient_7:

(Start: 29 @5273 has 4 MA's), (Start: 57 @5213 has 9 MA's), (90, 5099), (105, 5024), (113, 4979),

Gene: Moostard_77 Start: 53811, Stop: 54065, Start Num: 51

Candidate Starts for Moostard_77:

(Start: 41 @53796 has 34 MA's), (Start: 51 @53811 has 12 MA's), (95, 53946), (104, 53988), (108, 54024), (114, 54048),

Gene: Morrill_7 Start: 5168, Stop: 4911, Start Num: 57

Candidate Starts for Morrill_7:

(Start: 29 @5228 has 4 MA's), (Start: 57 @5168 has 9 MA's), (83, 5096), (90, 5054), (105, 4979), (113, 4934),

Gene: Mosby_89 Start: 55952, Stop: 56212, Start Num: 54

Candidate Starts for Mosby_89:

(Start: 54 @55952 has 125 MA's), (68, 55973), (85, 56048), (96, 56117), (108, 56183),

Gene: Mozy_68 Start: 42517, Stop: 42798, Start Num: 32

Candidate Starts for Mozy_68:

(25, 42490), (Start: 32 @42517 has 148 MA's), (Start: 45 @42541 has 31 MA's), (55, 42556), (74, 42601), (Start: 76 @42613 has 19 MA's), (92, 42691), (95, 42703), (104, 42727), (105, 42739), (117, 42790),

Gene: MsGreen_79 Start: 53793, Stop: 54062, Start Num: 41

Candidate Starts for MsGreen_79:

(Start: 41 @53793 has 34 MA's), (Start: 51 @53808 has 12 MA's), (95, 53943), (104, 53985), (108, 54021), (114, 54045),

Gene: Mufasa_54 Start: 39116, Stop: 39349, Start Num: 49

Candidate Starts for Mufasa_54:

(Start: 47 @39113 has 6 MA's), (Start: 49 @39116 has 4 MA's), (Start: 54 @39122 has 125 MA's), (Start: 58 @39128 has 1 MA's), (87, 39218), (88, 39224), (104, 39287), (116, 39338),

Gene: MulchExplorer_66 Start: 41810, Stop: 42091, Start Num: 32

Candidate Starts for MulchExplorer_66:

(23, 41774), (Start: 32 @41810 has 148 MA's), (Start: 45 @41834 has 31 MA's), (74, 41891), (Start: 76 @41903 has 19 MA's), (92, 41981), (95, 41993), (104, 42017), (105, 42029), (117, 42083),

Gene: Murica_96 Start: 57595, Stop: 57855, Start Num: 54

Candidate Starts for Murica_96:

(Start: 54 @57595 has 125 MA's), (68, 57616), (85, 57691), (96, 57760), (108, 57826),

Gene: Murphy_93 Start: 57036, Stop: 57296, Start Num: 54

Candidate Starts for Murphy_93:

(Start: 54 @57036 has 125 MA's), (68, 57057), (85, 57132), (96, 57201), (108, 57267),

Gene: Murucutumbu_51 Start: 38326, Stop: 38589, Start Num: 37
Candidate Starts for Murucutumbu_51:
(8, 38074), (Start: 37 @38326 has 83 MA's), (70, 38380), (90, 38467),

Gene: Mutaforma13_63 Start: 42840, Stop: 43124, Start Num: 32
Candidate Starts for Mutaforma13_63:
(25, 42813), (Start: 32 @42840 has 148 MA's), (Start: 45 @42864 has 31 MA's), (55, 42879), (74, 42924), (Start: 76 @42936 has 19 MA's), (92, 43014), (95, 43026), (104, 43050), (105, 43062), (117, 43116),

Gene: Mynx_51 Start: 37672, Stop: 37935, Start Num: 37
Candidate Starts for Mynx_51:
(Start: 37 @37672 has 83 MA's), (90, 37813),

Gene: Myrale_93 Start: 57158, Stop: 57418, Start Num: 54
Candidate Starts for Myrale_93:
(Start: 54 @57158 has 125 MA's), (68, 57179), (85, 57254), (96, 57323), (108, 57389),

Gene: Nairb_40 Start: 31446, Stop: 31703, Start Num: 38
Candidate Starts for Nairb_40:
(6, 31170), (7, 31191), (Start: 38 @31446 has 7 MA's), (Start: 76 @31530 has 19 MA's), (95, 31620),

Gene: Nala_95 Start: 56881, Stop: 57141, Start Num: 54
Candidate Starts for Nala_95:
(Start: 54 @56881 has 125 MA's), (68, 56902), (85, 56977), (96, 57046), (108, 57112),

Gene: NelitzaMV_91 Start: 56241, Stop: 56501, Start Num: 54
Candidate Starts for NelitzaMV_91:
(Start: 54 @56241 has 125 MA's), (68, 56262), (85, 56337), (96, 56406), (108, 56472),

Gene: Nergal_48 Start: 36024, Stop: 36272, Start Num: 37
Candidate Starts for Nergal_48:
(Start: 37 @36024 has 83 MA's), (87, 36138), (90, 36156), (97, 36189), (108, 36246),

Gene: Nette_42 Start: 31007, Stop: 31306, Start Num: 50
Candidate Starts for Nette_42:
(Start: 38 @30992 has 7 MA's), (50, 31007), (70, 31046),

Gene: Netyap_82 Start: 53979, Stop: 54215, Start Num: 76
Candidate Starts for Netyap_82:
(Start: 41 @53919 has 34 MA's), (Start: 76 @53979 has 19 MA's), (86, 54024), (89, 54036), (95, 54072), (105, 54126), (106, 54129),

Gene: NewHope4_63 Start: 39931, Stop: 40209, Start Num: 32
Candidate Starts for NewHope4_63:
(25, 39904), (Start: 32 @39931 has 148 MA's), (75, 40015), (77, 40024), (90, 40087), (92, 40102), (95, 40114), (104, 40138), (105, 40150), (117, 40201),

Gene: Niagara_39 Start: 44231, Stop: 44031, Start Num: 67
Candidate Starts for Niagara_39:
(Start: 67 @44231 has 9 MA's),

Gene: Nibb_53 Start: 37813, Stop: 38082, Start Num: 45
Candidate Starts for Nibb_53:
(Start: 45 @37813 has 31 MA's), (64, 37840), (102, 37987), (121, 38071),

Gene: Nicholas_77 Start: 53801, Stop: 54070, Start Num: 41
Candidate Starts for Nicholas_77:
(Start: 41 @53801 has 34 MA's), (Start: 51 @53816 has 12 MA's), (95, 53951), (104, 53993), (108, 54029), (114, 54053),

Gene: Nicholasp3_81 Start: 53813, Stop: 54049, Start Num: 76
Candidate Starts for Nicholasp3_81:
(Start: 41 @53753 has 34 MA's), (Start: 76 @53813 has 19 MA's), (86, 53858), (89, 53870), (95, 53906), (105, 53960), (106, 53963),

Gene: Nikao_49 Start: 39653, Stop: 39922, Start Num: 45
Candidate Starts for Nikao_49:
(Start: 45 @39653 has 31 MA's), (80, 39749), (93, 39809), (94, 39815), (95, 39818), (104, 39845), (105, 39857), (116, 39911),

Gene: Niklas_53 Start: 38346, Stop: 38609, Start Num: 45
Candidate Starts for Niklas_53:
(1, 37866), (4, 38022), (8, 38091), (Start: 45 @38346 has 31 MA's), (81, 38448), (87, 38466), (90, 38484), (104, 38538), (108, 38574), (116, 38598),

Gene: Nimrod_94 Start: 57584, Stop: 57844, Start Num: 54
Candidate Starts for Nimrod_94:
(Start: 54 @57584 has 125 MA's), (68, 57605), (85, 57680), (96, 57749), (108, 57815),

Gene: Nitzel_57 Start: 39291, Stop: 39521, Start Num: 32
Candidate Starts for Nitzel_57:
(25, 39264), (Start: 32 @39291 has 148 MA's), (75, 39375), (90, 39444), (95, 39471), (104, 39495),

Gene: Nivrat_55 Start: 39298, Stop: 39579, Start Num: 32
Candidate Starts for Nivrat_55:
(25, 39271), (Start: 32 @39298 has 148 MA's), (75, 39382), (77, 39391), (90, 39454), (92, 39469), (95, 39481), (104, 39505), (105, 39517), (117, 39571),

Gene: NoSleep_94 Start: 56218, Stop: 56478, Start Num: 54
Candidate Starts for NoSleep_94:
(Start: 54 @56218 has 125 MA's), (68, 56239), (85, 56314), (96, 56383), (108, 56449),

Gene: NormanBulbieJr_59 Start: 39923, Stop: 40207, Start Num: 32
Candidate Starts for NormanBulbieJr_59:
(25, 39896), (Start: 32 @39923 has 148 MA's), (Start: 45 @39947 has 31 MA's), (55, 39962), (74, 40007), (Start: 76 @40019 has 19 MA's), (92, 40097), (95, 40109), (104, 40133), (105, 40145), (117, 40199),

Gene: November_53 Start: 38195, Stop: 38449, Start Num: 46
Candidate Starts for November_53:
(4, 37877), (8, 37946), (10, 38042), (Start: 46 @38195 has 8 MA's), (Start: 76 @38261 has 19 MA's), (90, 38324), (102, 38369),

Gene: Nutello_46 Start: 37040, Stop: 37309, Start Num: 45

Candidate Starts for Nutello_46:

(Start: 45 @37040 has 31 MA's), (80, 37136), (93, 37196), (94, 37202), (95, 37205), (104, 37232), (105, 37244), (116, 37298),

Gene: OBUpride_74 Start: 48893, Stop: 49201, Start Num: 21

Candidate Starts for OBUpride_74:

(19, 48887), (Start: 21 @48893 has 20 MA's), (Start: 27 @48920 has 2 MA's), (Start: 39 @48953 has 12 MA's), (78, 49055), (87, 49082), (109, 49193),

Gene: Ochi17_62 Start: 41991, Stop: 42269, Start Num: 32

Candidate Starts for Ochi17_62:

(25, 41964), (Start: 32 @41991 has 148 MA's), (75, 42075), (77, 42084), (90, 42147), (92, 42162), (95, 42174), (104, 42198), (105, 42210), (117, 42261),

Gene: OfUltron_64 Start: 42540, Stop: 42818, Start Num: 32

Candidate Starts for OfUltron_64:

(25, 42513), (Start: 32 @42540 has 148 MA's), (75, 42624), (77, 42633), (90, 42696), (92, 42711), (95, 42723), (104, 42747), (105, 42759), (117, 42810),

Gene: OhShagHennessy_75 Start: 51278, Stop: 51583, Start Num: 41

Candidate Starts for OhShagHennessy_75:

(Start: 41 @51278 has 34 MA's), (Start: 51 @51293 has 12 MA's), (Start: 76 @51353 has 19 MA's), (90, 51416), (95, 51443), (105, 51497), (122, 51566), (123, 51569),

Gene: Oksu_63 Start: 42803, Stop: 43081, Start Num: 32

Candidate Starts for Oksu_63:

(25, 42776), (Start: 32 @42803 has 148 MA's), (75, 42887), (77, 42896), (90, 42959), (92, 42974), (95, 42986), (104, 43010), (105, 43022), (117, 43073),

Gene: OldBen_56 Start: 39848, Stop: 40132, Start Num: 32

Candidate Starts for OldBen_56:

(25, 39821), (Start: 32 @39848 has 148 MA's), (Start: 45 @39872 has 31 MA's), (55, 39887), (74, 39932), (Start: 76 @39944 has 19 MA's), (92, 40022), (95, 40034), (104, 40058), (105, 40070), (117, 40124),

Gene: OlympiaSaint_61 Start: 40444, Stop: 40725, Start Num: 32

Candidate Starts for OlympiaSaint_61:

(25, 40417), (Start: 32 @40444 has 148 MA's), (Start: 45 @40468 has 31 MA's), (55, 40483), (74, 40528), (Start: 76 @40540 has 19 MA's), (92, 40618), (95, 40630), (104, 40654), (105, 40666), (117, 40717),

Gene: OrionPax_92 Start: 55969, Stop: 56229, Start Num: 54

Candidate Starts for OrionPax_92:

(Start: 54 @55969 has 125 MA's), (68, 55990), (85, 56065), (96, 56134), (108, 56200),

Gene: Oscar_55 Start: 38567, Stop: 38842, Start Num: 45

Candidate Starts for Oscar_55:

(Start: 45 @38567 has 31 MA's), (Start: 48 @38573 has 2 MA's), (70, 38615), (Start: 76 @38639 has 19 MA's), (102, 38747), (121, 38831),

Gene: OwlsT2W_59 Start: 40166, Stop: 40444, Start Num: 32

Candidate Starts for OwlsT2W_59:

(25, 40139), (Start: 32 @40166 has 148 MA's), (75, 40250), (90, 40322), (92, 40337), (95, 40349), (104, 40373), (105, 40385), (117, 40436),

Gene: PHappiness_54 Start: 38211, Stop: 38489, Start Num: 32

Candidate Starts for PHappiness_54:

(25, 38184), (Start: 32 @38211 has 148 MA's), (75, 38295), (77, 38304), (90, 38367), (92, 38382), (95, 38394), (104, 38418), (105, 38430), (117, 38481),

Gene: PMC_56 Start: 40550, Stop: 40834, Start Num: 32

Candidate Starts for PMC_56:

(25, 40523), (Start: 32 @40550 has 148 MA's), (Start: 45 @40574 has 31 MA's), (55, 40589), (74, 40634), (Start: 76 @40646 has 19 MA's), (92, 40724), (95, 40736), (104, 40760), (105, 40772), (117, 40826),

Gene: PYPDinur_78 Start: 52985, Stop: 53275, Start Num: 43

Candidate Starts for PYPDinur_78:

(Start: 43 @52985 has 10 MA's), (84, 53069), (86, 53084), (89, 53096), (95, 53132), (100, 53150), (101, 53162), (106, 53189),

Gene: Pacc40_53 Start: 38285, Stop: 38563, Start Num: 32

Candidate Starts for Pacc40_53:

(25, 38258), (Start: 32 @38285 has 148 MA's), (75, 38369), (77, 38378), (90, 38441), (92, 38456), (95, 38468), (104, 38492), (105, 38504), (117, 38555),

Gene: Padfoot_50 Start: 37668, Stop: 37931, Start Num: 37

Candidate Starts for Padfoot_50:

(Start: 37 @37668 has 83 MA's), (90, 37809),

Gene: Padpat_52 Start: 37347, Stop: 37610, Start Num: 37

Candidate Starts for Padpat_52:

(Start: 37 @37347 has 83 MA's), (90, 37488),

Gene: Palpatine_95 Start: 57622, Stop: 57882, Start Num: 54

Candidate Starts for Palpatine_95:

(Start: 54 @57622 has 125 MA's), (68, 57643), (85, 57718), (96, 57787), (108, 57853),

Gene: PapayaSalad_40 Start: 27840, Stop: 28139, Start Num: 39

Candidate Starts for PapayaSalad_40:

(5, 27552), (9, 27597), (20, 27771), (Start: 39 @27840 has 12 MA's), (95, 28002),

Gene: Paperbeatsrock_92 Start: 56873, Stop: 57133, Start Num: 54

Candidate Starts for Paperbeatsrock_92:

(Start: 54 @56873 has 125 MA's), (68, 56894), (85, 56969), (96, 57038), (108, 57104),

Gene: Pat3_90 Start: 55071, Stop: 55331, Start Num: 54

Candidate Starts for Pat3_90:

(12, 54933), (Start: 54 @55071 has 125 MA's), (68, 55092), (96, 55236), (108, 55302),

Gene: Peanam_53 Start: 38304, Stop: 38567, Start Num: 45

Candidate Starts for Peanam_53:

(1, 37824), (4, 37980), (8, 38049), (Start: 45 @38304 has 31 MA's), (81, 38406), (87, 38424), (90, 38442), (104, 38496), (108, 38532), (116, 38556),

Gene: Peel_50 Start: 37473, Stop: 37736, Start Num: 37

Candidate Starts for Peel_50:

(Start: 37 @37473 has 83 MA's), (90, 37614),

Gene: Petra64142_98 Start: 58076, Stop: 58336, Start Num: 54

Candidate Starts for Petra64142_98:

(12, 57938), (Start: 54 @58076 has 125 MA's), (68, 58097), (96, 58241), (108, 58307),

Gene: Phaja_91 Start: 56699, Stop: 56959, Start Num: 54

Candidate Starts for Phaja_91:

(Start: 54 @56699 has 125 MA's), (68, 56720), (85, 56795), (96, 56864), (108, 56930),

Gene: Pharb_50 Start: 36682, Stop: 36942, Start Num: 39

Candidate Starts for Pharb_50:

(1, 36217), (8, 36442), (Start: 39 @36682 has 12 MA's), (56, 36697), (104, 36871),

Gene: Pharky_7 Start: 5240, Stop: 4923, Start Num: 29

Candidate Starts for Pharky_7:

(Start: 29 @5240 has 4 MA's), (Start: 57 @5180 has 9 MA's), (90, 5066), (105, 4991), (113, 4946),

Gene: Pharsalus_90 Start: 56673, Stop: 56933, Start Num: 54

Candidate Starts for Pharsalus_90:

(Start: 54 @56673 has 125 MA's), (68, 56694), (85, 56769), (96, 56838), (108, 56904),

Gene: Phasih_57 Start: 40355, Stop: 40633, Start Num: 32

Candidate Starts for Phasih_57:

(25, 40328), (Start: 32 @40355 has 148 MA's), (75, 40439), (77, 40448), (90, 40511), (92, 40526), (95, 40538), (104, 40562), (105, 40574), (117, 40625),

Gene: PhatBacter_97 Start: 57367, Stop: 57627, Start Num: 54

Candidate Starts for PhatBacter_97:

(Start: 54 @57367 has 125 MA's), (68, 57388), (85, 57463), (96, 57532), (108, 57598),

Gene: Phatniss_57 Start: 39928, Stop: 40212, Start Num: 32

Candidate Starts for Phatniss_57:

(25, 39901), (Start: 32 @39928 has 148 MA's), (Start: 45 @39952 has 31 MA's), (55, 39967), (74, 40012), (Start: 76 @40024 has 19 MA's), (92, 40102), (95, 40114), (104, 40138), (105, 40150), (117, 40204),

Gene: Phaux_96 Start: 57909, Stop: 58169, Start Num: 54

Candidate Starts for Phaux_96:

(Start: 54 @57909 has 125 MA's), (68, 57930), (85, 58005), (96, 58074), (108, 58140),

Gene: Phedro_7 Start: 5240, Stop: 4923, Start Num: 29

Candidate Starts for Phedro_7:

(Start: 29 @5240 has 4 MA's), (Start: 57 @5180 has 9 MA's), (90, 5066), (105, 4991), (113, 4946),

Gene: PhelpsODU_53 Start: 37175, Stop: 37432, Start Num: 45

Candidate Starts for PhelpsODU_53:

(Start: 45 @37175 has 31 MA's), (59, 37196), (Start: 76 @37250 has 19 MA's), (90, 37313), (91, 37322), (108, 37400),

Gene: Philus_62 Start: 41088, Stop: 41369, Start Num: 32

Candidate Starts for Philus_62:

(25, 41061), (Start: 32 @41088 has 148 MA's), (75, 41172), (77, 41181), (90, 41244), (92, 41259), (95, 41271), (104, 41295), (105, 41307), (117, 41361),

Gene: Phractured_7 Start: 5240, Stop: 4923, Start Num: 29

Candidate Starts for Phractured_7:

(Start: 29 @5240 has 4 MA's), (Start: 57 @5180 has 9 MA's), (90, 5066), (105, 4991), (113, 4946),

Gene: Phrank_54 Start: 37132, Stop: 37389, Start Num: 45

Candidate Starts for Phrank_54:

(Start: 45 @37132 has 31 MA's), (59, 37153), (Start: 76 @37207 has 19 MA's), (90, 37270), (91, 37279), (108, 37357),

Gene: PhriedRice_7 Start: 5180, Stop: 4923, Start Num: 57

Candidate Starts for PhriedRice_7:

(Start: 29 @5240 has 4 MA's), (Start: 57 @5180 has 9 MA's), (90, 5066), (105, 4991), (113, 4946),

Gene: Phrux_91 Start: 56185, Stop: 56445, Start Num: 54

Candidate Starts for Phrux_91:

(Start: 54 @56185 has 125 MA's), (68, 56206), (85, 56281), (96, 56350), (108, 56416),

Gene: Piatt_50 Start: 37668, Stop: 37931, Start Num: 37

Candidate Starts for Piatt_50:

(Start: 37 @37668 has 83 MA's), (90, 37809),

Gene: Pippy_57 Start: 38794, Stop: 39075, Start Num: 32

Candidate Starts for Pippy_57:

(25, 38767), (Start: 32 @38794 has 148 MA's), (Start: 45 @38818 has 31 MA's), (55, 38833), (74, 38878), (Start: 76 @38890 has 19 MA's), (92, 38968), (95, 38980), (104, 39004), (105, 39016), (117, 39067),

Gene: Pixie_52 Start: 37451, Stop: 37720, Start Num: 39

Candidate Starts for Pixie_52:

(8, 37211), (Start: 39 @37451 has 12 MA's), (56, 37475), (90, 37595), (104, 37649),

Gene: Plumbus_61 Start: 40255, Stop: 40533, Start Num: 32

Candidate Starts for Plumbus_61:

(25, 40228), (Start: 32 @40255 has 148 MA's), (75, 40339), (77, 40348), (90, 40411), (92, 40426), (95, 40438), (104, 40462), (105, 40474), (117, 40525),

Gene: Poenanya_59 Start: 41112, Stop: 41390, Start Num: 32

Candidate Starts for Poenanya_59:

(25, 41085), (Start: 32 @41112 has 148 MA's), (75, 41196), (77, 41205), (90, 41268), (92, 41283), (95, 41295), (104, 41319), (105, 41331), (117, 41382),

Gene: Pokerus_49 Start: 37394, Stop: 37657, Start Num: 37

Candidate Starts for Pokerus_49:

(Start: 37 @37394 has 83 MA's), (70, 37448), (90, 37535),

Gene: Policronamos_96 Start: 57640, Stop: 57900, Start Num: 54

Candidate Starts for Policronamos_96:

(Start: 54 @57640 has 125 MA's), (68, 57661), (85, 57736), (96, 57805), (108, 57871),

Gene: Polka14_57 Start: 39308, Stop: 39586, Start Num: 32

Candidate Starts for Polka14_57:

(25, 39281), (Start: 32 @39308 has 148 MA's), (75, 39392), (77, 39401), (90, 39464), (92, 39479), (95, 39491), (104, 39515), (105, 39527), (117, 39578),

Gene: Pollywog_60 Start: 40759, Stop: 41043, Start Num: 32

Candidate Starts for Pollywog_60:

(25, 40732), (Start: 32 @40759 has 148 MA's), (Start: 45 @40783 has 31 MA's), (55, 40798), (74, 40843), (Start: 76 @40855 has 19 MA's), (92, 40933), (95, 40945), (104, 40969), (105, 40981), (117, 41035),

Gene: Polo2Bam_64 Start: 39785, Stop: 40063, Start Num: 32

Candidate Starts for Polo2Bam_64:

(25, 39758), (Start: 32 @39785 has 148 MA's), (75, 39869), (77, 39878), (90, 39941), (92, 39956), (95, 39968), (104, 39992), (105, 40004), (117, 40055),

Gene: Poochiewood_76 Start: 52583, Stop: 52888, Start Num: 41

Candidate Starts for Poochiewood_76:

(Start: 41 @52583 has 34 MA's), (Start: 51 @52598 has 12 MA's), (Start: 76 @52658 has 19 MA's), (90, 52721), (95, 52748), (105, 52802), (122, 52871), (123, 52874),

Gene: Porky_92 Start: 55785, Stop: 56045, Start Num: 54

Candidate Starts for Porky_92:

(Start: 54 @55785 has 125 MA's), (68, 55806), (85, 55881), (96, 55950), (108, 56016),

Gene: Priscilla_59 Start: 40022, Stop: 40306, Start Num: 32

Candidate Starts for Priscilla_59:

(25, 39995), (Start: 32 @40022 has 148 MA's), (Start: 45 @40046 has 31 MA's), (55, 40061), (74, 40106), (Start: 76 @40118 has 19 MA's), (92, 40196), (95, 40208), (104, 40232), (105, 40244), (117, 40298),

Gene: Prithvi_51 Start: 37556, Stop: 37819, Start Num: 37

Candidate Starts for Prithvi_51:

(Start: 37 @37556 has 83 MA's), (70, 37610), (90, 37697),

Gene: Pumpkin_97 Start: 57561, Stop: 57821, Start Num: 54

Candidate Starts for Pumpkin_97:

(Start: 54 @57561 has 125 MA's), (68, 57582), (85, 57657), (96, 57726), (108, 57792),

Gene: Pupper_53 Start: 18336, Stop: 18617, Start Num: 28

Candidate Starts for Pupper_53:

(Start: 28 @18336 has 3 MA's), (Start: 45 @18372 has 31 MA's), (Start: 76 @18447 has 19 MA's),

Gene: Quallification_94 Start: 57281, Stop: 57541, Start Num: 54

Candidate Starts for Quallification_94:

(Start: 54 @57281 has 125 MA's), (68, 57302), (85, 57377), (96, 57446), (108, 57512),

Gene: Quby_79 Start: 52316, Stop: 52600, Start Num: 43

Candidate Starts for Quby_79:

(Start: 43 @52316 has 10 MA's), (86, 52415), (89, 52427), (95, 52463), (100, 52481), (106, 52520),

Gene: QuickMath_61 Start: 42034, Stop: 42315, Start Num: 32

Candidate Starts for QuickMath_61:

(23, 41998), (Start: 32 @42034 has 148 MA's), (Start: 45 @42058 has 31 MA's), (74, 42115), (Start: 76 @42127 has 19 MA's), (92, 42205), (95, 42217), (104, 42241), (105, 42253), (117, 42307),

Gene: QuincyRose_49 Start: 37786, Stop: 38049, Start Num: 37

Candidate Starts for QuincyRose_49:
(Start: 37 @37786 has 83 MA's), (90, 37927),

Gene: Radiance_58 Start: 40047, Stop: 40328, Start Num: 32

Candidate Starts for Radiance_58:
(25, 40020), (Start: 32 @40047 has 148 MA's), (Start: 45 @40071 has 31 MA's), (55, 40086), (74, 40131), (Start: 76 @40143 has 19 MA's), (92, 40221), (95, 40233), (104, 40257), (105, 40269), (117, 40320),

Gene: Rakim_94 Start: 56610, Stop: 56870, Start Num: 54

Candidate Starts for Rakim_94:
(Start: 54 @56610 has 125 MA's), (68, 56631), (85, 56706), (96, 56775), (108, 56841),

Gene: Ramen_51 Start: 37358, Stop: 37621, Start Num: 37

Candidate Starts for Ramen_51:
(Start: 37 @37358 has 83 MA's), (90, 37499),

Gene: Rapunzel97_51 Start: 37354, Stop: 37617, Start Num: 37

Candidate Starts for Rapunzel97_51:
(Start: 37 @37354 has 83 MA's), (90, 37495),

Gene: Red305_80 Start: 53809, Stop: 54063, Start Num: 51

Candidate Starts for Red305_80:
(Start: 41 @53794 has 34 MA's), (Start: 51 @53809 has 12 MA's), (95, 53944), (104, 53986), (108, 54022), (114, 54046),

Gene: RedBird_57 Start: 39343, Stop: 39624, Start Num: 32

Candidate Starts for RedBird_57:
(25, 39316), (Start: 32 @39343 has 148 MA's), (75, 39427), (77, 39436), (90, 39499), (92, 39514), (95, 39526), (104, 39550), (105, 39562),

Gene: Renaud18_65 Start: 40812, Stop: 41093, Start Num: 32

Candidate Starts for Renaud18_65:
(24, 40776), (Start: 32 @40812 has 148 MA's), (Start: 40 @40827 has 1 MA's), (55, 40851), (74, 40896), (Start: 76 @40908 has 19 MA's), (104, 41022), (105, 41034), (117, 41085),

Gene: Reynauld_48 Start: 45364, Stop: 45140, Start Num: 61

Candidate Starts for Reynauld_48:
(2, 45808), (Start: 61 @45364 has 2 MA's), (69, 45340),

Gene: Rialto_65 Start: 42826, Stop: 43110, Start Num: 32

Candidate Starts for Rialto_65:
(25, 42799), (Start: 32 @42826 has 148 MA's), (Start: 45 @42850 has 31 MA's), (55, 42865), (74, 42910), (Start: 76 @42922 has 19 MA's), (92, 43000), (95, 43012), (104, 43036), (105, 43048), (117, 43102),

Gene: Richo_53 Start: 38285, Stop: 38548, Start Num: 45

Candidate Starts for Richo_53:

(1, 37805), (4, 37961), (8, 38030), (Start: 45 @38285 has 31 MA's), (81, 38387), (87, 38405), (90, 38423), (104, 38477), (108, 38513), (116, 38537),

Gene: RicoCaldo_7 Start: 5210, Stop: 4953, Start Num: 57

Candidate Starts for RicoCaldo_7:

(Start: 29 @5270 has 4 MA's), (Start: 57 @5210 has 9 MA's), (90, 5096), (105, 5021), (113, 4976),

Gene: Rimmer_91 Start: 56182, Stop: 56442, Start Num: 54

Candidate Starts for Rimmer_91:

(12, 56044), (Start: 54 @56182 has 125 MA's), (68, 56203), (96, 56347), (108, 56413),

Gene: Rita_60 Start: 38653, Stop: 38937, Start Num: 32

Candidate Starts for Rita_60:

(25, 38626), (Start: 32 @38653 has 148 MA's), (Start: 45 @38677 has 31 MA's), (55, 38692), (74, 38737), (Start: 76 @38749 has 19 MA's), (92, 38827), (95, 38839), (104, 38863), (105, 38875), (117, 38929),

Gene: RitaG_54 Start: 38556, Stop: 38834, Start Num: 32

Candidate Starts for RitaG_54:

(25, 38529), (Start: 32 @38556 has 148 MA's), (75, 38640), (77, 38649), (90, 38712), (92, 38727), (95, 38739), (104, 38763), (105, 38775), (117, 38826),

Gene: RiverMonster_94 Start: 57081, Stop: 57341, Start Num: 54

Candidate Starts for RiverMonster_94:

(Start: 54 @57081 has 125 MA's), (68, 57102), (85, 57177), (96, 57246), (108, 57312),

Gene: Rockne_60 Start: 40562, Stop: 40846, Start Num: 32

Candidate Starts for Rockne_60:

(25, 40535), (Start: 32 @40562 has 148 MA's), (Start: 45 @40586 has 31 MA's), (55, 40601), (74, 40646), (Start: 76 @40658 has 19 MA's), (92, 40736), (95, 40748), (104, 40772), (105, 40784), (117, 40838),

Gene: RockyHorror_60 Start: 39611, Stop: 39892, Start Num: 32

Candidate Starts for RockyHorror_60:

(25, 39584), (Start: 32 @39611 has 148 MA's), (Start: 45 @39635 has 31 MA's), (55, 39650), (74, 39695), (Start: 76 @39707 has 19 MA's), (95, 39797), (104, 39821), (105, 39833), (117, 39884),

Gene: RonRayGun_41 Start: 31892, Stop: 32149, Start Num: 38

Candidate Starts for RonRayGun_41:

(6, 31616), (7, 31637), (Start: 38 @31892 has 7 MA's), (Start: 76 @31976 has 19 MA's), (95, 32066),

Gene: Ronaldo_96 Start: 48347, Stop: 48652, Start Num: 43

Candidate Starts for Ronaldo_96:

(Start: 43 @48347 has 10 MA's), (70, 48380), (111, 48581), (118, 48605),

Gene: Rose5_78 Start: 52495, Stop: 52725, Start Num: 76

Candidate Starts for Rose5_78:

(Start: 41 @52420 has 34 MA's), (Start: 51 @52435 has 12 MA's), (Start: 76 @52495 has 19 MA's), (90, 52558), (95, 52585), (122, 52708), (123, 52711),

Gene: Rosmarinus_50 Start: 37459, Stop: 37722, Start Num: 37

Candidate Starts for Rosmarinus_50:

(Start: 37 @37459 has 83 MA's), (90, 37600),

Gene: Ruby_55 Start: 39743, Stop: 40021, Start Num: 32

Candidate Starts for Ruby_55:

(25, 39716), (Start: 32 @39743 has 148 MA's), (75, 39827), (77, 39836), (90, 39899), (92, 39914), (95, 39926), (104, 39950), (105, 39962), (117, 40013),

Gene: Rumpelstiltskin_78 Start: 53546, Stop: 53842, Start Num: 41

Candidate Starts for Rumpelstiltskin_78:

(Start: 41 @53546 has 34 MA's), (Start: 76 @53606 has 19 MA's), (86, 53651), (89, 53663), (95, 53699), (105, 53753), (106, 53756),

Gene: SCentae_53 Start: 18353, Stop: 18634, Start Num: 28

Candidate Starts for SCentae_53:

(Start: 28 @18353 has 3 MA's), (Start: 45 @18389 has 31 MA's), (Start: 76 @18464 has 19 MA's),

Gene: SG4_56 Start: 39440, Stop: 39724, Start Num: 32

Candidate Starts for SG4_56:

(Start: 32 @39440 has 148 MA's), (Start: 45 @39464 has 31 MA's), (55, 39479), (74, 39524), (Start: 76 @39536 has 19 MA's), (92, 39614), (95, 39626), (104, 39650), (105, 39662), (117, 39716),

Gene: Saal_61 Start: 41196, Stop: 41477, Start Num: 32

Candidate Starts for Saal_61:

(25, 41169), (Start: 32 @41196 has 148 MA's), (Start: 45 @41220 has 31 MA's), (55, 41235), (74, 41280), (Start: 76 @41292 has 19 MA's), (92, 41370), (95, 41382), (104, 41406), (105, 41418), (117, 41469),

Gene: Sabbb_63 Start: 40884, Stop: 41165, Start Num: 32

Candidate Starts for Sabbb_63:

(25, 40857), (Start: 32 @40884 has 148 MA's), (Start: 45 @40908 has 31 MA's), (55, 40923), (74, 40968), (Start: 76 @40980 has 19 MA's), (92, 41058), (95, 41070), (104, 41094), (105, 41106), (117, 41157),

Gene: Saints25_92 Start: 56224, Stop: 56484, Start Num: 54

Candidate Starts for Saints25_92:

(Start: 54 @56224 has 125 MA's), (68, 56245), (85, 56320), (96, 56389), (108, 56455),

Gene: Samty_78 Start: 53804, Stop: 54058, Start Num: 51

Candidate Starts for Samty_78:

(Start: 41 @53789 has 34 MA's), (Start: 51 @53804 has 12 MA's), (95, 53939), (104, 53981), (108, 54017), (114, 54041),

Gene: SamuelLPlaqson_51 Start: 38242, Stop: 38505, Start Num: 37

Candidate Starts for SamuelLPlaqson_51:

(8, 37990), (Start: 37 @38242 has 83 MA's), (70, 38296), (87, 38365), (90, 38383),

Gene: Sarshaun_82 Start: 54071, Stop: 54307, Start Num: 76

Candidate Starts for Sarshaun_82:

(Start: 41 @54011 has 34 MA's), (Start: 76 @54071 has 19 MA's), (86, 54116), (89, 54128), (95, 54164), (105, 54218), (106, 54221),

Gene: Sassafras_57 Start: 39528, Stop: 39806, Start Num: 32

Candidate Starts for Sassafras_57:

(25, 39501), (Start: 32 @39528 has 148 MA's), (75, 39612), (77, 39621), (90, 39684), (92, 39699), (95, 39711), (104, 39735), (105, 39747), (117, 39798),

Gene: Sassay_88 Start: 54914, Stop: 55174, Start Num: 54

Candidate Starts for Sassay_88:

(Start: 54 @54914 has 125 MA's), (68, 54935), (85, 55010), (96, 55079), (108, 55145),

Gene: Sbash_53 Start: 39707, Stop: 40006, Start Num: 33

Candidate Starts for Sbash_53:

(Start: 33 @39707 has 6 MA's), (42, 39725), (63, 39761), (Start: 71 @39776 has 1 MA's), (90, 39872), (104, 39923), (108, 39959), (119, 39998),

Gene: Scarlett_55 Start: 38559, Stop: 38834, Start Num: 45

Candidate Starts for Scarlett_55:

(Start: 45 @38559 has 31 MA's), (Start: 48 @38565 has 2 MA's), (70, 38607), (Start: 76 @38631 has 19 MA's), (102, 38739), (121, 38823),

Gene: Scottish_57 Start: 39568, Stop: 39852, Start Num: 32

Candidate Starts for Scottish_57:

(25, 39541), (Start: 32 @39568 has 148 MA's), (Start: 45 @39592 has 31 MA's), (55, 39607), (74, 39652), (Start: 76 @39664 has 19 MA's), (92, 39742), (95, 39754), (104, 39778), (105, 39790), (117, 39844),

Gene: Seabastian_64 Start: 42541, Stop: 42819, Start Num: 32

Candidate Starts for Seabastian_64:

(25, 42514), (Start: 32 @42541 has 148 MA's), (75, 42625), (77, 42634), (90, 42697), (92, 42712), (95, 42724), (104, 42748), (105, 42760), (117, 42811),

Gene: Sejanus_58 Start: 47696, Stop: 47995, Start Num: 33

Candidate Starts for Sejanus_58:

(Start: 33 @47696 has 6 MA's), (42, 47714), (63, 47750), (Start: 71 @47765 has 1 MA's), (90, 47861), (104, 47912), (108, 47948), (116, 47981), (119, 47987),

Gene: SgtBeansprout_46 Start: 37040, Stop: 37309, Start Num: 45

Candidate Starts for SgtBeansprout_46:

(Start: 45 @37040 has 31 MA's), (80, 37136), (93, 37196), (94, 37202), (95, 37205), (104, 37232), (105, 37244), (116, 37298),

Gene: Shadow1_56 Start: 38290, Stop: 38541, Start Num: 45

Candidate Starts for Shadow1_56:

(Start: 45 @38290 has 31 MA's), (Start: 48 @38296 has 2 MA's), (90, 38428),

Gene: ShamWow_93 Start: 57094, Stop: 57354, Start Num: 54

Candidate Starts for ShamWow_93:

(Start: 54 @57094 has 125 MA's), (68, 57115), (85, 57190), (96, 57259), (108, 57325),

Gene: Shaobing_53 Start: 38322, Stop: 38585, Start Num: 45

Candidate Starts for Shaobing_53:

(1, 37842), (4, 37998), (8, 38067), (Start: 45 @38322 has 31 MA's), (81, 38424), (87, 38442), (90, 38460), (104, 38514), (108, 38550), (116, 38574),

Gene: ShedlockHolmes_54 Start: 37976, Stop: 38245, Start Num: 39

Candidate Starts for ShedlockHolmes_54:

(8, 37736), (Start: 39 @37976 has 12 MA's), (56, 38000), (90, 38120), (104, 38174),

Gene: Sheng711_80 Start: 52619, Stop: 52909, Start Num: 43

Candidate Starts for Sheng711_80:

(Start: 43 @52619 has 10 MA's), (84, 52703), (89, 52730), (95, 52766), (100, 52784), (101, 52796), (106, 52823),

Gene: ShereKhan_91 Start: 57206, Stop: 57466, Start Num: 54

Candidate Starts for ShereKhan_91:

(Start: 54 @57206 has 125 MA's), (68, 57227), (85, 57302), (96, 57371), (108, 57437),

Gene: ShiLan_58 Start: 39969, Stop: 40253, Start Num: 32

Candidate Starts for ShiLan_58:

(25, 39942), (Start: 32 @39969 has 148 MA's), (Start: 45 @39993 has 31 MA's), (55, 40008), (74, 40053), (Start: 76 @40065 has 19 MA's), (92, 40143), (95, 40155), (104, 40179), (105, 40191), (117, 40245),

Gene: ShiaSurprise_51 Start: 37668, Stop: 37931, Start Num: 37

Candidate Starts for ShiaSurprise_51:

(Start: 37 @37668 has 83 MA's), (90, 37809),

Gene: ShowerHandel_62 Start: 39936, Stop: 40217, Start Num: 32

Candidate Starts for ShowerHandel_62:

(25, 39909), (Start: 32 @39936 has 148 MA's), (Start: 45 @39960 has 31 MA's), (55, 39975), (74, 40020), (Start: 76 @40032 has 19 MA's), (92, 40110), (95, 40122), (104, 40146), (105, 40158), (117, 40209),

Gene: ShroomBoi_61 Start: 40896, Stop: 41177, Start Num: 32

Candidate Starts for ShroomBoi_61:

(25, 40869), (Start: 32 @40896 has 148 MA's), (Start: 45 @40920 has 31 MA's), (55, 40935), (74, 40980), (Start: 76 @40992 has 19 MA's), (92, 41070), (95, 41082), (104, 41106), (105, 41118), (117, 41169),

Gene: Shweta_42 Start: 30626, Stop: 30925, Start Num: 33

Candidate Starts for Shweta_42:

(Start: 33 @30626 has 6 MA's), (42, 30644), (63, 30680), (Start: 71 @30695 has 1 MA's), (90, 30791), (104, 30842), (108, 30878), (116, 30911),

Gene: ShyRosie_7 Start: 5195, Stop: 4923, Start Num: 57

Candidate Starts for ShyRosie_7:

(Start: 29 @5255 has 4 MA's), (Start: 57 @5195 has 9 MA's), (90, 5081), (104, 5018), (105, 5006), (113, 4961),

Gene: Silverleaf_78 Start: 51891, Stop: 52181, Start Num: 51

Candidate Starts for Silverleaf_78:

(Start: 41 @51876 has 34 MA's), (Start: 51 @51891 has 12 MA's), (Start: 76 @51951 has 19 MA's), (90, 52014), (95, 52041), (122, 52164), (123, 52167),

Gene: Simpliphy_92 Start: 56214, Stop: 56474, Start Num: 54

Candidate Starts for Simpliphy_92:

(Start: 54 @56214 has 125 MA's), (68, 56235), (85, 56310), (96, 56379), (108, 56445),

Gene: SimranZ1_59 Start: 40122, Stop: 40400, Start Num: 32

Candidate Starts for SimranZ1_59:

(25, 40095), (Start: 32 @40122 has 148 MA's), (75, 40206), (77, 40215), (90, 40278), (92, 40293), (95, 40305), (104, 40329), (105, 40341), (117, 40392),

Gene: SirDuracell_93 Start: 55587, Stop: 55847, Start Num: 54

Candidate Starts for SirDuracell_93:

(Start: 54 @55587 has 125 MA's), (68, 55608), (85, 55683), (96, 55752), (108, 55818),

Gene: SirPhilip_53 Start: 38679, Stop: 38936, Start Num: 45

Candidate Starts for SirPhilip_53:

(Start: 45 @38679 has 31 MA's), (87, 38799), (89, 38808), (90, 38817), (105, 38880), (108, 38904),

Gene: SkinnyPete_42 Start: 29948, Stop: 30178, Start Num: 71

Candidate Starts for SkinnyPete_42:

(Start: 33 @29879 has 6 MA's), (42, 29897), (63, 29933), (Start: 71 @29948 has 1 MA's), (90, 30044), (104, 30095), (108, 30131), (116, 30164), (119, 30170),

Gene: Slimphazie_50 Start: 37354, Stop: 37617, Start Num: 37

Candidate Starts for Slimphazie_50:

(Start: 37 @37354 has 83 MA's), (90, 37495),

Gene: Snenia_78 Start: 53795, Stop: 54064, Start Num: 41

Candidate Starts for Snenia_78:

(Start: 41 @53795 has 34 MA's), (Start: 51 @53810 has 12 MA's), (95, 53945), (104, 53987), (108, 54023), (114, 54047),

Gene: SoJulia_83 Start: 55139, Stop: 55375, Start Num: 76

Candidate Starts for SoJulia_83:

(Start: 41 @55079 has 34 MA's), (Start: 76 @55139 has 19 MA's), (86, 55184), (89, 55196), (95, 55232), (105, 55286), (106, 55289),

Gene: Soap141_81 Start: 54071, Stop: 54307, Start Num: 76

Candidate Starts for Soap141_81:

(Start: 41 @54011 has 34 MA's), (Start: 76 @54071 has 19 MA's), (86, 54116), (89, 54128), (95, 54164), (105, 54218), (106, 54221),

Gene: SophKB_90 Start: 55892, Stop: 56152, Start Num: 54

Candidate Starts for SophKB_90:

(Start: 54 @55892 has 125 MA's), (68, 55913), (85, 55988), (96, 56057), (108, 56123),

Gene: Sotrice96_94 Start: 56480, Stop: 56740, Start Num: 54

Candidate Starts for Sotrice96_94:

(Start: 54 @56480 has 125 MA's), (68, 56501), (85, 56576), (96, 56645), (108, 56711),

Gene: Soul22_65 Start: 41527, Stop: 41811, Start Num: 32

Candidate Starts for Soul22_65:

(25, 41500), (Start: 32 @41527 has 148 MA's), (Start: 45 @41551 has 31 MA's), (55, 41566), (74, 41611), (Start: 76 @41623 has 19 MA's), (92, 41701), (95, 41713), (104, 41737), (105, 41749), (117, 41803),

Gene: Spartacus_61 Start: 40606, Stop: 40887, Start Num: 32

Candidate Starts for Spartacus_61:

(25, 40579), (Start: 32 @40606 has 148 MA's), (Start: 45 @40630 has 31 MA's), (55, 40645), (74, 40690), (Start: 76 @40702 has 19 MA's), (92, 40780), (95, 40792), (104, 40816), (105, 40828), (117, 40879),

Gene: Spikelee_66 Start: 42226, Stop: 42507, Start Num: 32

Candidate Starts for Spikelee_66:

(25, 42199), (Start: 32 @42226 has 148 MA's), (Start: 45 @42250 has 31 MA's), (55, 42265), (74, 42310), (Start: 76 @42322 has 19 MA's), (92, 42400), (95, 42412), (104, 42436), (105, 42448), (117, 42499),

Gene: Spock_50 Start: 37472, Stop: 37735, Start Num: 37

Candidate Starts for Spock_50:

(Start: 37 @37472 has 83 MA's), (90, 37613),

Gene: Spoonbill_56 Start: 38516, Stop: 38794, Start Num: 32

Candidate Starts for Spoonbill_56:

(25, 38489), (Start: 32 @38516 has 148 MA's), (75, 38600), (77, 38609), (90, 38672), (92, 38687), (95, 38699), (104, 38723), (105, 38735), (117, 38786),

Gene: Squiddly_71 Start: 45719, Stop: 45979, Start Num: 30

Candidate Starts for Squiddly_71:

(18, 45680), (Start: 30 @45719 has 1 MA's), (70, 45782), (74, 45794), (87, 45851), (95, 45896), (112, 45971),

Gene: StagePhright_7 Start: 5180, Stop: 4923, Start Num: 57

Candidate Starts for StagePhright_7:

(Start: 29 @5240 has 4 MA's), (Start: 57 @5180 has 9 MA's), (90, 5066), (105, 4991), (113, 4946),

Gene: Stank_95 Start: 56873, Stop: 57133, Start Num: 54

Candidate Starts for Stank_95:

(Start: 54 @56873 has 125 MA's), (68, 56894), (85, 56969), (96, 57038), (108, 57104),

Gene: Stap_57 Start: 39317, Stop: 39595, Start Num: 32

Candidate Starts for Stap_57:

(25, 39290), (Start: 32 @39317 has 148 MA's), (75, 39401), (77, 39410), (90, 39473), (92, 39488), (95, 39500), (104, 39524), (105, 39536), (117, 39587),

Gene: Starcevich_59 Start: 40105, Stop: 40383, Start Num: 32

Candidate Starts for Starcevich_59:

(23, 40069), (Start: 32 @40105 has 148 MA's), (Start: 45 @40129 has 31 MA's), (74, 40186), (Start: 76 @40198 has 19 MA's), (92, 40276), (95, 40288), (104, 40312), (105, 40324), (117, 40375),

Gene: Stark_95 Start: 56964, Stop: 57224, Start Num: 54

Candidate Starts for Stark_95:

(Start: 54 @56964 has 125 MA's), (68, 56985), (85, 57060), (96, 57129), (108, 57195),

Gene: StellaBean_91 Start: 56418, Stop: 56678, Start Num: 54

Candidate Starts for StellaBean_91:

(Start: 54 @56418 has 125 MA's), (68, 56439), (85, 56514), (96, 56583), (108, 56649),

Gene: Stinson_51 Start: 37846, Stop: 38109, Start Num: 37

Candidate Starts for Stinson_51:

(8, 37594), (Start: 37 @37846 has 83 MA's), (70, 37900), (90, 37987),

Gene: StolenFromERC_96 Start: 56798, Stop: 57058, Start Num: 54
Candidate Starts for StolenFromERC_96:
(Start: 54 @56798 has 125 MA's), (68, 56819), (85, 56894), (96, 56963), (108, 57029),

Gene: StormChicken_95 Start: 57577, Stop: 57837, Start Num: 54
Candidate Starts for StormChicken_95:
(12, 57439), (Start: 54 @57577 has 125 MA's), (68, 57598), (96, 57742), (108, 57808),

Gene: Strobilo_54 Start: 39537, Stop: 39767, Start Num: 49
Candidate Starts for Strobilo_54:
(Start: 47 @39534 has 6 MA's), (Start: 49 @39537 has 4 MA's), (Start: 54 @39543 has 125 MA's),
(Start: 58 @39549 has 1 MA's), (87, 39639), (88, 39645), (104, 39708),

Gene: Strokeseat_55 Start: 38052, Stop: 38333, Start Num: 32
Candidate Starts for Strokeseat_55:
(25, 38025), (Start: 32 @38052 has 148 MA's), (Start: 45 @38076 has 31 MA's), (55, 38091), (74, 38136),
(Start: 76 @38148 has 19 MA's), (92, 38226), (95, 38238), (104, 38262), (105, 38274), (117, 38325),

Gene: Stuck_58 Start: 41100, Stop: 41399, Start Num: 33
Candidate Starts for Stuck_58:
(Start: 33 @41100 has 6 MA's), (42, 41118), (63, 41154), (Start: 71 @41169 has 1 MA's), (90, 41265),
(104, 41316), (108, 41352), (116, 41385),

Gene: Sulley_50 Start: 37598, Stop: 37861, Start Num: 37
Candidate Starts for Sulley_50:
(Start: 37 @37598 has 83 MA's), (90, 37739),

Gene: Sunflower1121_57 Start: 38391, Stop: 38642, Start Num: 45
Candidate Starts for Sunflower1121_57:
(Start: 45 @38391 has 31 MA's), (Start: 48 @38397 has 2 MA's), (90, 38529),

Gene: SwagPiggett_64 Start: 42244, Stop: 42525, Start Num: 32
Candidate Starts for SwagPiggett_64:
(25, 42217), (Start: 32 @42244 has 148 MA's), (Start: 45 @42268 has 31 MA's), (55, 42283), (74, 42328),
(Start: 76 @42340 has 19 MA's), (92, 42418), (95, 42430), (104, 42454), (105, 42466), (117, 42517),

Gene: Syra333_56 Start: 38055, Stop: 38306, Start Num: 45
Candidate Starts for Syra333_56:
(Start: 45 @38055 has 31 MA's), (Start: 48 @38061 has 2 MA's), (88, 38181), (90, 38193),

Gene: TBond007_51 Start: 37450, Stop: 37719, Start Num: 39
Candidate Starts for TBond007_51:
(8, 37210), (Start: 39 @37450 has 12 MA's), (56, 37474), (90, 37594), (104, 37648),

Gene: TBrady12_96 Start: 56634, Stop: 56894, Start Num: 54
Candidate Starts for TBrady12_96:
(Start: 54 @56634 has 125 MA's), (68, 56655), (85, 56730), (96, 56799), (108, 56865),

Gene: TChen_60 Start: 41367, Stop: 41636, Start Num: 40
Candidate Starts for TChen_60:

(22, 41322), (Start: 32 @41358 has 148 MA's), (Start: 40 @41367 has 1 MA's), (70, 41424), (75, 41442), (77, 41451), (90, 41514), (92, 41529), (95, 41541), (104, 41565), (105, 41577), (117, 41628),

Gene: TClif_54 Start: 38425, Stop: 38685, Start Num: 46

Candidate Starts for TClif_54:

(Start: 46 @38425 has 8 MA's), (70, 38467), (95, 38581), (102, 38599), (116, 38674),

Gene: TM4_49 Start: 33917, Stop: 34147, Start Num: 49

Candidate Starts for TM4_49:

(Start: 47 @33914 has 6 MA's), (Start: 49 @33917 has 4 MA's), (Start: 54 @33923 has 125 MA's), (Start: 58 @33929 has 1 MA's), (87, 34019), (88, 34025), (104, 34088),

Gene: Tachez_50 Start: 37316, Stop: 37579, Start Num: 37

Candidate Starts for Tachez_50:

(Start: 37 @37316 has 83 MA's), (90, 37457),

Gene: TaiwanKao_52 Start: 37612, Stop: 37875, Start Num: 37

Candidate Starts for TaiwanKao_52:

(Start: 37 @37612 has 83 MA's), (90, 37753),

Gene: Taj_63 Start: 41748, Stop: 41978, Start Num: 62

Candidate Starts for Taj_63:

(Start: 62 @41748 has 1 MA's), (66, 41757), (92, 41871), (95, 41883), (104, 41907), (105, 41919), (117, 41970),

Gene: Tarkin_92 Start: 56882, Stop: 57142, Start Num: 54

Candidate Starts for Tarkin_92:

(Start: 54 @56882 has 125 MA's), (68, 56903), (85, 56978), (96, 57047), (108, 57113),

Gene: TeardropMSU_89 Start: 55882, Stop: 56142, Start Num: 54

Candidate Starts for TeardropMSU_89:

(Start: 54 @55882 has 125 MA's), (68, 55903), (85, 55978), (96, 56047), (108, 56113),

Gene: Teaspoon_94 Start: 56734, Stop: 56994, Start Num: 54

Candidate Starts for Teaspoon_94:

(Start: 54 @56734 has 125 MA's), (68, 56755), (85, 56830), (96, 56899), (108, 56965),

Gene: Teatealatte_40 Start: 44176, Stop: 43976, Start Num: 67

Candidate Starts for Teatealatte_40:

(Start: 67 @44176 has 9 MA's),

Gene: Teech_40 Start: 43977, Stop: 43777, Start Num: 67

Candidate Starts for Teech_40:

(Start: 67 @43977 has 9 MA's),

Gene: Teejan_48 Start: 39653, Stop: 39922, Start Num: 45

Candidate Starts for Teejan_48:

(Start: 45 @39653 has 31 MA's), (80, 39749), (93, 39809), (94, 39815), (95, 39818), (104, 39845), (105, 39857), (116, 39911),

Gene: Terminus_96 Start: 57669, Stop: 57929, Start Num: 54

Candidate Starts for Terminus_96:

(Start: 54 @57669 has 125 MA's), (68, 57690), (85, 57765), (96, 57834), (108, 57900),

Gene: ThetaBob_64 Start: 41432, Stop: 41710, Start Num: 32

Candidate Starts for ThetaBob_64:

(22, 41396), (Start: 32 @41432 has 148 MA's), (Start: 40 @41441 has 1 MA's), (70, 41498), (75, 41516), (77, 41525), (90, 41588), (92, 41603), (95, 41615), (104, 41639), (105, 41651), (117, 41702),

Gene: Thimble_96 Start: 56384, Stop: 56644, Start Num: 54

Candidate Starts for Thimble_96:

(Start: 54 @56384 has 125 MA's), (68, 56405), (85, 56480), (96, 56549), (108, 56615),

Gene: ThirteenKH_7 Start: 5168, Stop: 4911, Start Num: 57

Candidate Starts for ThirteenKH_7:

(Start: 29 @5228 has 4 MA's), (Start: 57 @5168 has 9 MA's), (83, 5096), (90, 5054), (105, 4979), (113, 4934),

Gene: Thresher_96 Start: 57744, Stop: 58004, Start Num: 54

Candidate Starts for Thresher_96:

(Start: 54 @57744 has 125 MA's), (68, 57765), (85, 57840), (96, 57909), (108, 57975),

Gene: Tierra_54 Start: 37943, Stop: 38200, Start Num: 45

Candidate Starts for Tierra_54:

(Start: 45 @37943 has 31 MA's), (59, 37964), (Start: 76 @38018 has 19 MA's), (90, 38081), (91, 38090), (108, 38168),

Gene: TingHuaYa_51 Start: 36397, Stop: 36660, Start Num: 37

Candidate Starts for TingHuaYa_51:

(Start: 37 @36397 has 83 MA's), (Start: 44 @36409 has 2 MA's), (87, 36520), (90, 36538),

Gene: TiniBug_51 Start: 38238, Stop: 38501, Start Num: 37

Candidate Starts for TiniBug_51:

(8, 37986), (Start: 37 @38238 has 83 MA's), (70, 38292), (87, 38361), (90, 38379),

Gene: Tiri_51 Start: 37646, Stop: 37909, Start Num: 37

Candidate Starts for Tiri_51:

(Start: 37 @37646 has 83 MA's), (70, 37700), (90, 37787),

Gene: Tomaszewski_88 Start: 56045, Stop: 56305, Start Num: 54

Candidate Starts for Tomaszewski_88:

(Start: 54 @56045 has 125 MA's), (68, 56066), (85, 56141), (96, 56210), (108, 56276),

Gene: Tootsieroll_60 Start: 39265, Stop: 39549, Start Num: 32

Candidate Starts for Tootsieroll_60:

(25, 39238), (Start: 32 @39265 has 148 MA's), (Start: 45 @39289 has 31 MA's), (55, 39304), (74, 39349), (Start: 76 @39361 has 19 MA's), (92, 39439), (95, 39451), (104, 39475), (105, 39487), (117, 39541),

Gene: Topper_50 Start: 37471, Stop: 37734, Start Num: 37

Candidate Starts for Topper_50:

(Start: 37 @37471 has 83 MA's), (90, 37612),

Gene: Toron_67 Start: 42166, Stop: 42447, Start Num: 26

Candidate Starts for Toron_67:

(17, 42130), (26, 42166), (65, 42241), (108, 42427), (111, 42439),

Gene: Toron_68 Start: 42444, Stop: 42677, Start Num: 60
Candidate Starts for Toron_68:
(60, 42444), (65, 42456), (104, 42621), (107, 42636), (110, 42666),

Gene: Torres_48 Start: 39654, Stop: 39923, Start Num: 45
Candidate Starts for Torres_48:
(Start: 45 @39654 has 31 MA's), (80, 39750), (93, 39810), (94, 39816), (95, 39819), (104, 39846),
(105, 39858), (116, 39912),

Gene: Totinger_58 Start: 39195, Stop: 39479, Start Num: 32
Candidate Starts for Totinger_58:
(25, 39168), (Start: 32 @39195 has 148 MA's), (Start: 45 @39219 has 31 MA's), (55, 39234), (74,
39279), (Start: 76 @39291 has 19 MA's), (92, 39369), (95, 39381), (104, 39405), (105, 39417), (117,
39471),

Gene: Toto_91 Start: 57094, Stop: 57354, Start Num: 54
Candidate Starts for Toto_91:
(Start: 54 @57094 has 125 MA's), (68, 57115), (85, 57190), (96, 57259), (108, 57325),

Gene: Tourach_80 Start: 54051, Stop: 54332, Start Num: 51
Candidate Starts for Tourach_80:
(Start: 41 @54036 has 34 MA's), (Start: 51 @54051 has 12 MA's), (90, 54162), (95, 54189), (101,
54219), (123, 54306),

Gene: Traaww1_89 Start: 55902, Stop: 56162, Start Num: 54
Candidate Starts for Traaww1_89:
(Start: 54 @55902 has 125 MA's), (68, 55923), (85, 55998), (96, 56067), (108, 56133),

Gene: Tredge_40 Start: 44176, Stop: 43976, Start Num: 67
Candidate Starts for Tredge_40:
(Start: 67 @44176 has 9 MA's),

Gene: TreyKay_51 Start: 37556, Stop: 37819, Start Num: 37
Candidate Starts for TreyKay_51:
(Start: 37 @37556 has 83 MA's), (70, 37610), (90, 37697),

Gene: TriFive_79 Start: 53809, Stop: 54063, Start Num: 51
Candidate Starts for TriFive_79:
(Start: 41 @53794 has 34 MA's), (Start: 51 @53809 has 12 MA's), (95, 53944), (104, 53986), (108,
54022), (114, 54046),

Gene: TribbleTrouble_50 Start: 37335, Stop: 37601, Start Num: 39
Candidate Starts for TribbleTrouble_50:
(Start: 39 @37335 has 12 MA's), (56, 37356), (60, 37362), (90, 37476), (102, 37521), (104, 37530),

Gene: TrippleS_7 Start: 5168, Stop: 4911, Start Num: 57
Candidate Starts for TrippleS_7:
(Start: 29 @5228 has 4 MA's), (Start: 57 @5168 has 9 MA's), (83, 5096), (90, 5054), (105, 4979), (113,
4934),

Gene: Trogglehumper_64 Start: 53677, Stop: 53435, Start Num: 61
Candidate Starts for Trogglehumper_64:

(Start: 61 @53677 has 2 MA's), (69, 53653),

Gene: TruffulaTree_50 Start: 37350, Stop: 37613, Start Num: 37

Candidate Starts for TruffulaTree_50:

(Start: 37 @37350 has 83 MA's), (90, 37491),

Gene: Tuco_94 Start: 57641, Stop: 57901, Start Num: 54

Candidate Starts for Tuco_94:

(Start: 54 @57641 has 125 MA's), (68, 57662), (85, 57737), (96, 57806), (108, 57872),

Gene: Twitch_50 Start: 37473, Stop: 37736, Start Num: 37

Candidate Starts for Twitch_50:

(Start: 37 @37473 has 83 MA's), (90, 37614),

Gene: Tyson_79 Start: 52361, Stop: 52651, Start Num: 51

Candidate Starts for Tyson_79:

(Start: 41 @52346 has 34 MA's), (Start: 51 @52361 has 12 MA's), (Start: 76 @52421 has 19 MA's), (90, 52484), (95, 52511), (122, 52634), (123, 52637),

Gene: UPIE_77 Start: 52017, Stop: 52247, Start Num: 76

Candidate Starts for UPIE_77:

(Start: 41 @51942 has 34 MA's), (Start: 51 @51957 has 12 MA's), (Start: 76 @52017 has 19 MA's), (90, 52080), (95, 52107), (122, 52230), (123, 52233),

Gene: Ubuntu_75 Start: 48849, Stop: 49157, Start Num: 21

Candidate Starts for Ubuntu_75:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: Ukulele_88 Start: 56027, Stop: 56287, Start Num: 54

Candidate Starts for Ukulele_88:

(Start: 54 @56027 has 125 MA's), (68, 56048), (85, 56123), (96, 56192), (108, 56258),

Gene: UncleRicky_58 Start: 40176, Stop: 40460, Start Num: 32

Candidate Starts for UncleRicky_58:

(25, 40149), (Start: 32 @40176 has 148 MA's), (Start: 45 @40200 has 31 MA's), (55, 40215), (74, 40260), (Start: 76 @40272 has 19 MA's), (92, 40350), (95, 40362), (104, 40386), (105, 40398), (117, 40452),

Gene: Underpass_72 Start: 48849, Stop: 49085, Start Num: 76

Candidate Starts for Underpass_72:

(Start: 41 @48789 has 34 MA's), (Start: 76 @48849 has 19 MA's), (86, 48894), (89, 48906), (95, 48942), (105, 48996), (106, 48999),

Gene: Unicorn_53 Start: 37175, Stop: 37432, Start Num: 45

Candidate Starts for Unicorn_53:

(Start: 45 @37175 has 31 MA's), (59, 37196), (Start: 76 @37250 has 19 MA's), (90, 37313), (91, 37322), (108, 37400),

Gene: Urkel_51 Start: 38242, Stop: 38505, Start Num: 37

Candidate Starts for Urkel_51:

(8, 37990), (Start: 37 @38242 has 83 MA's), (70, 38296), (87, 38365), (90, 38383),

Gene: VRedHorse_59 Start: 39252, Stop: 39533, Start Num: 32

Candidate Starts for VRedHorse_59:

(25, 39225), (Start: 32 @39252 has 148 MA's), (Start: 45 @39276 has 31 MA's), (55, 39291), (74, 39336), (Start: 76 @39348 has 19 MA's), (92, 39426), (95, 39438), (104, 39462), (105, 39474), (117, 39525),

Gene: VWB_44 Start: 35402, Stop: 35647, Start Num: 49

Candidate Starts for VWB_44:

(11, 35270), (13, 35279), (14, 35282), (31, 35369), (Start: 47 @35399 has 6 MA's), (Start: 49 @35402 has 4 MA's), (90, 35531), (98, 35564), (104, 35582),

Gene: Validus_55 Start: 38351, Stop: 38623, Start Num: 45

Candidate Starts for Validus_55:

(Start: 45 @38351 has 31 MA's), (53, 38363), (81, 38453), (87, 38471), (90, 38489), (95, 38516), (112, 38594),

Gene: Veliki_51 Start: 37390, Stop: 37653, Start Num: 37

Candidate Starts for Veliki_51:

(Start: 37 @37390 has 83 MA's), (90, 37531),

Gene: Veteran_56 Start: 38956, Stop: 39237, Start Num: 32

Candidate Starts for Veteran_56:

(25, 38929), (Start: 32 @38956 has 148 MA's), (75, 39040), (77, 39049), (92, 39127), (95, 39139), (104, 39163), (105, 39175), (117, 39229),

Gene: Vetric_80 Start: 53895, Stop: 54131, Start Num: 76

Candidate Starts for Vetric_80:

(Start: 41 @53835 has 34 MA's), (Start: 76 @53895 has 19 MA's), (86, 53940), (89, 53952), (95, 53988), (106, 54045),

Gene: Violac_62 Start: 41322, Stop: 41603, Start Num: 32

Candidate Starts for Violac_62:

(25, 41295), (Start: 32 @41322 has 148 MA's), (Start: 45 @41346 has 31 MA's), (55, 41361), (74, 41406), (Start: 76 @41418 has 19 MA's), (92, 41496), (95, 41508), (104, 41532), (105, 41544), (117, 41595),

Gene: Volt_97 Start: 48511, Stop: 48816, Start Num: 43

Candidate Starts for Volt_97:

(Start: 43 @48511 has 10 MA's), (70, 48544), (111, 48745), (118, 48769),

Gene: Wamburgexpress_78 Start: 52456, Stop: 52686, Start Num: 76

Candidate Starts for Wamburgexpress_78:

(Start: 41 @52381 has 34 MA's), (Start: 51 @52396 has 12 MA's), (Start: 76 @52456 has 19 MA's), (90, 52519), (95, 52546), (122, 52669), (123, 52672),

Gene: Webster2_75 Start: 48849, Stop: 49157, Start Num: 21

Candidate Starts for Webster2_75:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: Wee_63 Start: 41773, Stop: 42054, Start Num: 32

Candidate Starts for Wee_63:

(Start: 32 @41773 has 148 MA's), (Start: 45 @41797 has 31 MA's), (55, 41812), (74, 41857), (Start: 76 @41869 has 19 MA's), (92, 41947), (95, 41959), (104, 41983), (105, 41995), (117, 42046),

Gene: Wee_60 Start: 40789, Stop: 41067, Start Num: 33

Candidate Starts for Wee_60:

(Start: 33 @40789 has 6 MA's), (35, 40795), (Start: 38 @40798 has 7 MA's), (53, 40822), (95, 40981), (103, 40996), (104, 41002),

Gene: Whirlwind_80 Start: 53994, Stop: 54305, Start Num: 41

Candidate Starts for Whirlwind_80:

(Start: 41 @53994 has 34 MA's), (Start: 51 @54009 has 12 MA's), (89, 54120), (95, 54156), (124, 54285),

Gene: Whouxphf_56 Start: 39848, Stop: 40129, Start Num: 32

Candidate Starts for Whouxphf_56:

(25, 39821), (Start: 32 @39848 has 148 MA's), (Start: 45 @39872 has 31 MA's), (55, 39887), (74, 39932), (Start: 76 @39944 has 19 MA's), (92, 40022), (95, 40034), (104, 40058), (105, 40070), (117, 40121),

Gene: Wiggin_95 Start: 56303, Stop: 56563, Start Num: 54

Candidate Starts for Wiggin_95:

(Start: 54 @56303 has 125 MA's), (68, 56324), (85, 56399), (96, 56468), (108, 56534),

Gene: Wigglewigggle_80 Start: 53840, Stop: 54076, Start Num: 76

Candidate Starts for Wigglewigggle_80:

(Start: 41 @53780 has 34 MA's), (Start: 76 @53840 has 19 MA's), (86, 53885), (89, 53897), (95, 53933), (104, 53975), (105, 53987), (106, 53990),

Gene: Wilder_82 Start: 53924, Stop: 54220, Start Num: 41

Candidate Starts for Wilder_82:

(Start: 41 @53924 has 34 MA's), (Start: 76 @53984 has 19 MA's), (86, 54029), (89, 54041), (95, 54077), (105, 54131), (106, 54134),

Gene: WillSterrel_60 Start: 41723, Stop: 42004, Start Num: 32

Candidate Starts for WillSterrel_60:

(25, 41696), (Start: 32 @41723 has 148 MA's), (Start: 45 @41747 has 31 MA's), (55, 41762), (74, 41807), (Start: 76 @41819 has 19 MA's), (92, 41897), (95, 41909), (104, 41933), (105, 41945), (117, 41996),

Gene: Willez_88 Start: 54914, Stop: 55174, Start Num: 54

Candidate Starts for Willez_88:

(Start: 54 @54914 has 125 MA's), (68, 54935), (85, 55010), (96, 55079), (108, 55145),

Gene: Winky_81 Start: 53918, Stop: 54214, Start Num: 41

Candidate Starts for Winky_81:

(Start: 41 @53918 has 34 MA's), (Start: 76 @53978 has 19 MA's), (86, 54023), (89, 54035), (95, 54071), (105, 54125), (106, 54128),

Gene: Wishmaker_68 Start: 48876, Stop: 49157, Start Num: 27

Candidate Starts for Wishmaker_68:

(19, 48843), (Start: 21 @48849 has 20 MA's), (Start: 27 @48876 has 2 MA's), (Start: 39 @48909 has 12 MA's), (78, 49011), (87, 49038), (109, 49149),

Gene: Wyatt2_79 Start: 52344, Stop: 52649, Start Num: 41
Candidate Starts for Wyatt2_79:
(Start: 41 @52344 has 34 MA's), (Start: 51 @52359 has 12 MA's), (Start: 76 @52419 has 19 MA's),
(90, 52482), (95, 52509), (122, 52632), (123, 52635),

Gene: Xandras_92 Start: 56126, Stop: 56386, Start Num: 54
Candidate Starts for Xandras_92:
(Start: 54 @56126 has 125 MA's), (68, 56147), (85, 56222), (96, 56291), (108, 56357),

Gene: Ximenita_57 Start: 38244, Stop: 38495, Start Num: 45
Candidate Starts for Ximenita_57:
(Start: 45 @38244 has 31 MA's), (Start: 48 @38250 has 2 MA's), (90, 38382),

Gene: Yafa_7 Start: 5183, Stop: 4926, Start Num: 57
Candidate Starts for Yafa_7:
(Start: 29 @5243 has 4 MA's), (Start: 57 @5183 has 9 MA's), (83, 5111), (90, 5069), (105, 4994), (113,
4949),

Gene: YassJohnny_90 Start: 55767, Stop: 56027, Start Num: 54
Candidate Starts for YassJohnny_90:
(Start: 54 @55767 has 125 MA's), (68, 55788), (85, 55863), (96, 55932), (108, 55998),

Gene: Yorick_58 Start: 40310, Stop: 40591, Start Num: 32
Candidate Starts for Yorick_58:
(25, 40283), (Start: 32 @40310 has 148 MA's), (Start: 45 @40334 has 31 MA's), (55, 40349), (74,
40394), (Start: 76 @40406 has 19 MA's), (92, 40484), (95, 40496), (104, 40520), (105, 40532), (117,
40583),

Gene: Yoshi_72 Start: 41696, Stop: 41974, Start Num: 32
Candidate Starts for Yoshi_72:
(22, 41660), (Start: 32 @41696 has 148 MA's), (Start: 40 @41705 has 1 MA's), (70, 41762), (75,
41780), (77, 41789), (90, 41852), (92, 41867), (95, 41879), (104, 41903), (105, 41915), (117, 41966),

Gene: Youngblood_96 Start: 57596, Stop: 57856, Start Num: 54
Candidate Starts for Youngblood_96:
(Start: 54 @57596 has 125 MA's), (68, 57617), (85, 57692), (96, 57761), (108, 57827),

Gene: YoureAdopted_49 Start: 37555, Stop: 37818, Start Num: 37
Candidate Starts for YoureAdopted_49:
(Start: 37 @37555 has 83 MA's), (90, 37696),

Gene: Yuna_57 Start: 39151, Stop: 39429, Start Num: 45
Candidate Starts for Yuna_57:
(10, 39004), (Start: 45 @39151 has 31 MA's), (90, 39280), (102, 39325), (104, 39334),

Gene: Yunkel11_53 Start: 37143, Stop: 37406, Start Num: 37
Candidate Starts for Yunkel11_53:
(Start: 37 @37143 has 83 MA's), (Start: 44 @37155 has 2 MA's), (87, 37266), (90, 37284),

Gene: Zabiza_45 Start: 33661, Stop: 33924, Start Num: 37
Candidate Starts for Zabiza_45:
(Start: 37 @33661 has 83 MA's), (90, 33802),

Gene: Zakai_82 Start: 54244, Stop: 54540, Start Num: 41

Candidate Starts for Zakai_82:

(Start: 41 @54244 has 34 MA's), (Start: 76 @54304 has 19 MA's), (86, 54349), (89, 54361), (95, 54397), (105, 54451), (106, 54454),

Gene: Zapner_72 Start: 41849, Stop: 42133, Start Num: 32

Candidate Starts for Zapner_72:

(25, 41822), (Start: 32 @41849 has 148 MA's), (Start: 45 @41873 has 31 MA's), (55, 41888), (74, 41933), (Start: 76 @41945 has 19 MA's), (92, 42023), (95, 42035), (104, 42059), (105, 42071), (117, 42125),

Gene: Zaria_79 Start: 51796, Stop: 52101, Start Num: 41

Candidate Starts for Zaria_79:

(Start: 41 @51796 has 34 MA's), (Start: 51 @51811 has 12 MA's), (Start: 76 @51871 has 19 MA's), (90, 51934), (95, 51961), (122, 52084), (123, 52087),

Gene: Zavala_52 Start: 37632, Stop: 37895, Start Num: 37

Candidate Starts for Zavala_52:

(Start: 37 @37632 has 83 MA's), (90, 37773),

Gene: ZenTime222_40 Start: 31446, Stop: 31703, Start Num: 38

Candidate Starts for ZenTime222_40:

(6, 31170), (7, 31191), (Start: 38 @31446 has 7 MA's), (Start: 76 @31530 has 19 MA's), (95, 31620),

Gene: Zerg_59 Start: 39720, Stop: 40004, Start Num: 32

Candidate Starts for Zerg_59:

(25, 39693), (Start: 32 @39720 has 148 MA's), (Start: 45 @39744 has 31 MA's), (55, 39759), (74, 39804), (Start: 76 @39816 has 19 MA's), (92, 39894), (95, 39906), (104, 39930), (105, 39942), (117, 39996),

Gene: ZhongYanYuan_78 Start: 53431, Stop: 53667, Start Num: 76

Candidate Starts for ZhongYanYuan_78:

(Start: 41 @53371 has 34 MA's), (Start: 76 @53431 has 19 MA's), (86, 53476), (89, 53488), (95, 53524), (104, 53566), (105, 53578), (106, 53581),

Gene: Ziko_96 Start: 48332, Stop: 48637, Start Num: 43

Candidate Starts for Ziko_96:

(Start: 43 @48332 has 10 MA's), (70, 48365), (111, 48566), (118, 48590),

Gene: Zizzle_63 Start: 41563, Stop: 41847, Start Num: 32

Candidate Starts for Zizzle_63:

(25, 41536), (Start: 32 @41563 has 148 MA's), (Start: 45 @41587 has 31 MA's), (55, 41602), (74, 41647), (Start: 76 @41659 has 19 MA's), (92, 41737), (95, 41749), (104, 41773), (105, 41785), (117, 41839),

Gene: ZoeJ_53 Start: 39008, Stop: 39238, Start Num: 49

Candidate Starts for ZoeJ_53:

(Start: 47 @39005 has 6 MA's), (Start: 49 @39008 has 4 MA's), (Start: 54 @39014 has 125 MA's), (Start: 58 @39020 has 1 MA's), (87, 39110), (88, 39116), (104, 39179),

Gene: xkcd_96 Start: 57780, Stop: 58040, Start Num: 54

Candidate Starts for xkcd_96:

(Start: 54 @57780 has 125 MA's), (68, 57801), (85, 57876), (96, 57945), (108, 58011),

