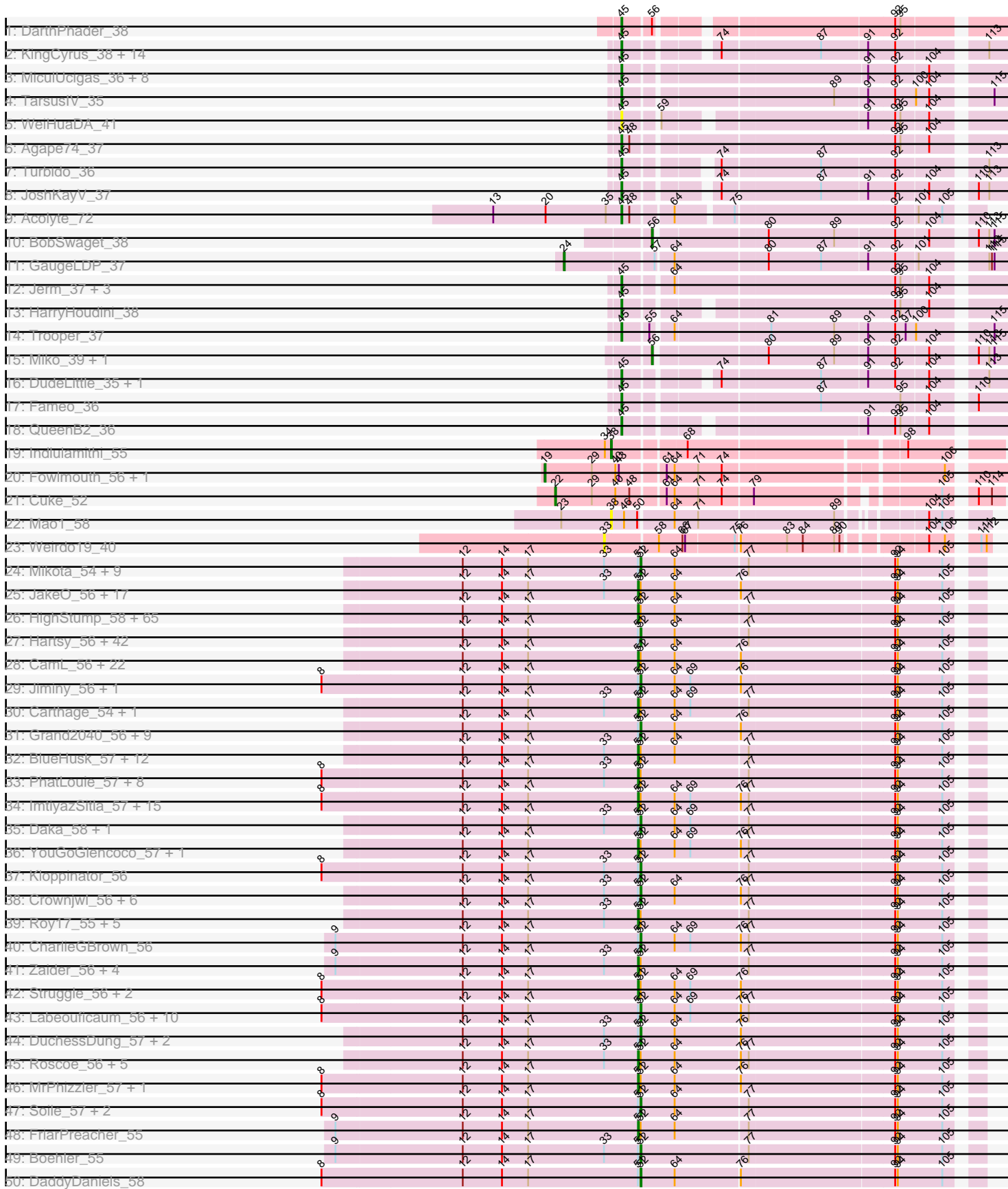
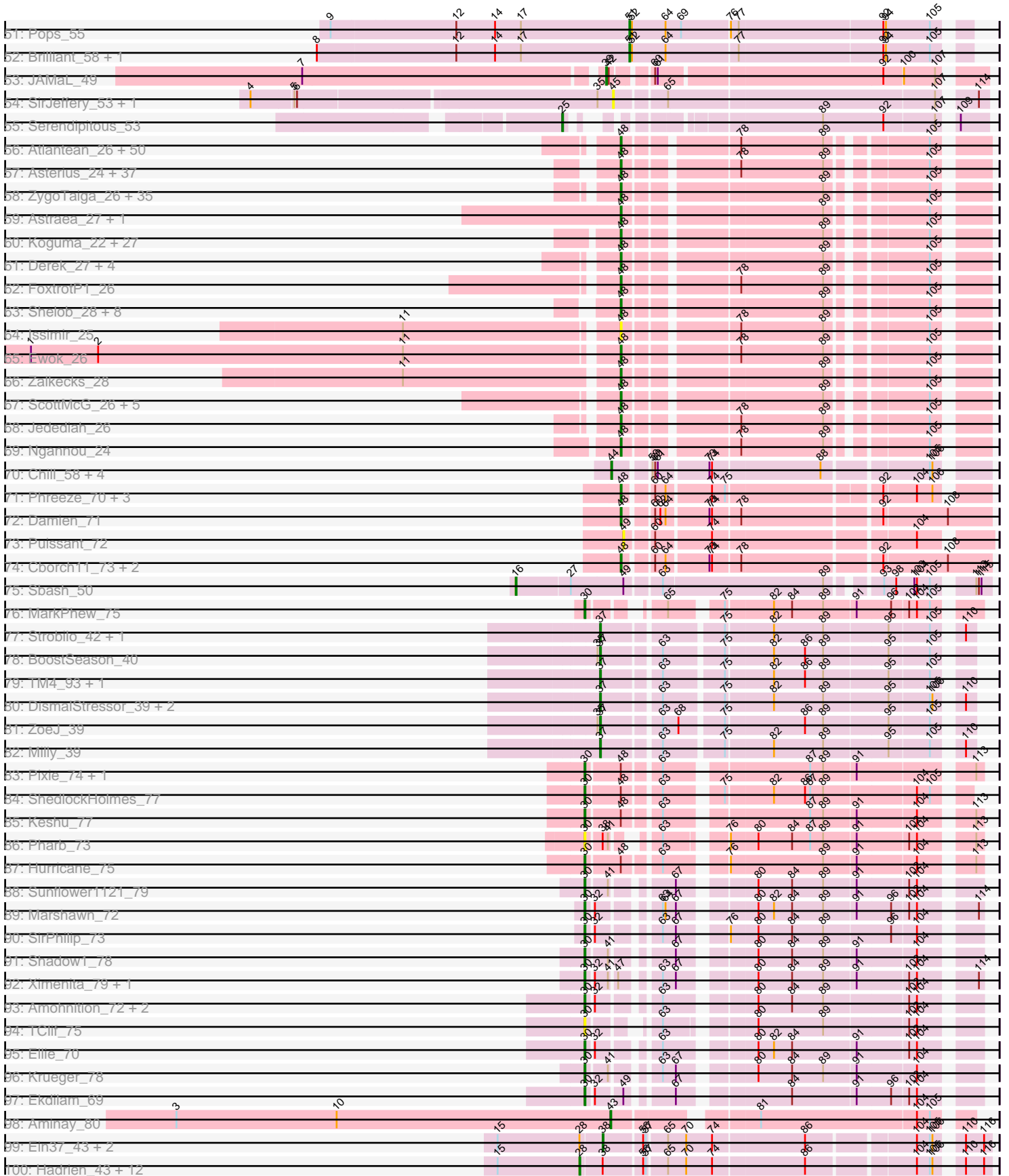


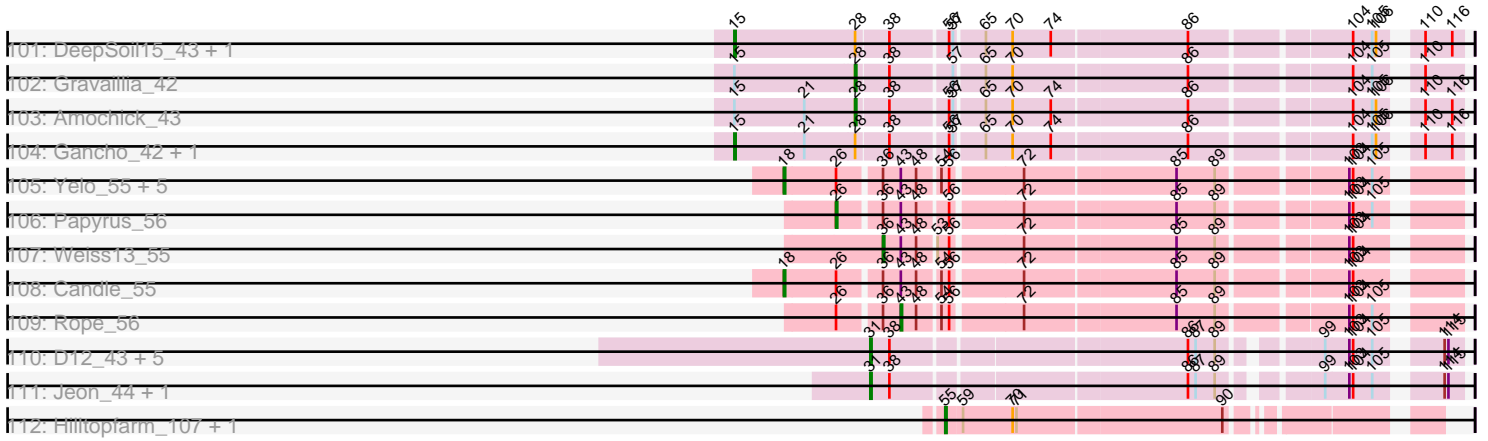
Pham 155967



Pham 155967



Pham 155967



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 155967 Report

This analysis was run 04/12/24 on database version 558.

Pham number 155967 has 594 members, 52 are drafts.

Phages represented in each track:

- Track 1 : DarthPhader_38
- Track 2 : KingCyrus_38, ChipMunk_38, SnapTap_36, Crucio_36, FiringLine_36, QueenBeesly_36, EvilGenius_38, Georgie2_37, Anselm_37, Power_35, SemperFi_37, AbbyPaige_37, Whabigail7_36, SweetiePie_36, Dalmatian_37
- Track 3 : MiculUcigas_36, Centaur_37, WideWale_37, Drake55_38, Updawg_37, Equemioh13_37, Buggy_38, Flare16_36, NaSiaTalie_36
- Track 4 : TarsusIV_35
- Track 5 : WeiHuaDA_41
- Track 6 : Agape74_37
- Track 7 : Turbido_36
- Track 8 : JoshKayV_37
- Track 9 : Acolyte_72
- Track 10 : BobSwaget_38
- Track 11 : GaugeLDP_37
- Track 12 : Jerm_37, Leviathan_37, LilTurb_36, Smeagan_38
- Track 13 : HarryHoudini_38
- Track 14 : Trooper_37
- Track 15 : Miko_39, Rachaly_39
- Track 16 : DudeLittle_35, Retro23_37
- Track 17 : Fameo_36
- Track 18 : QueenB2_36
- Track 19 : Indlulamithi_55
- Track 20 : Fowlmouth_56, MrMiyagi_55
- Track 21 : Cuke_52
- Track 22 : Mao1_58
- Track 23 : Weirdo19_40
- Track 24 : Mikota_54, Frankicide_55, KlimbOn_55, HSavage_55, MiniBoss_54, AbsoluteMadLad_55, Dingo_54, Sheila_54, Colbert_54, Phamished_57
- Track 25 : JakeO_56, Fozzie_55, Apizium_55, RedMaple_57, Cornobble_55, TallGrassMM_56, Surely_56, Newman_55, Squid_56, Solosis_55, LeiMonet_58, TomBombadil_56, Inverness_55, Cannibal_56, Telesworld_54, SassyCat97_55, Veritas_57, OSmaximus_57
- Track 26 : HighStump_58, Piglet_0056, Altwerkus_54, Fringe_60, ThreeOh3D2_57, Windsor_56, Kahve_56, Eugenia_56, Matalotodo_55, Haimas_55, Pherdinand_57, Orwigg_57, Etaye_56, Toni_55, Pipsqueak_55, Hertubise_56, Andre_59, Kikipoo_57, Morty_57, Serpentine_0056, Nacho_0057, KingTut_48, Vista_55, Inchworm_58, Bishoperium_56, BlackStallion_57, Quisquillae_57, Phipps_56, Megatron_57,

Jillium_56, Gareth_56, Selr12_58, UncleHowie_55, Ricotta_56, Orfeu_55, Gopheer_57, Olak_56, LeeLot_56, Vaticameos_53, JacAttac_57, Longacauda_57, Mecca_56, Lego3393_55, Kimbrough_57, CampRoach_57, Craff_59, Anderson_57, Legolas_58, Bluephacebaby_56, JDog_56, Zelda_56, Buckeye_55, Thora_56, Gwilliam_58, LasagnaCat_57, Scrick_57, Katniss_57, Pacifista_58, Dice_58, Chaelin_57, Megamind20_57, PhatCats2014_57, Harvey_55, Yoshand_57, DonSanchon_54, Lumine_57

- Track 27 : Hartsy_56, Skippy_57, Dati_56, Mutante_56, Placalicious_56, Melc17_56, Burr_56, Magic8_57, Mulan_56, Weher20_56, True_55, DoesntMatter_54, Mcshane_55, Swish_57, Fang_57, Nicole21_57, Slatt_57, Waterdiva_56, Freya_54, ProfessorX_55, PinheadLarry_57, Oosterbaan_56, FluffyNinja_57, Sigman_57, ABU_57, Badfish_57, PhrodoBaggins_57, Beaglebox_56, Adriana_57, Orion_57, Scoot17C_57, Cher_56, Cobra_57, PG1_57, Usavi_56, Squiggle_57, Murdoc_55, IsaacEli_57, HenryJackson_56, FugateOSU_56, Nyala_55, Chah_58, Tomlahar_57
- Track 28 : CamL_56, Mosaic_55, MRabcd_55, Sophia_55, Cosmolli16_57, Chorkpop_56, Daffy_56, Childish_56, Riggan_57, Kwadwo_55, Lasso_56, Potter_55, Mana_55, QueenBeane_56, Puhltonio_56, LostAndPhound_56, Samaymay_56, Haleema_55, Vortex_56, Banjo_55, Xavier_55, Lulwa_54, Giraffe_57
- Track 29 : Jiminy_56, Duggie_56
- Track 30 : Carthage_54, Prickles_57
- Track 31 : Grand2040_56, Serendipity_56, Iridoclysis_57, Timmi_55, MitKao_56, Maru_56, Mesh1_57, Morgushi_56, Podrick_54, Held_56
- Track 32 : BlueHusk_57, Suffolk_54, Soto_54, Gyarad_0054, CheetO_55, Horchata_55, Basato_56, SDcharge11_55, KLucky39_54, OliverWalter_55, Roliet_54, Chunky_54, KingVeVeVe_54
- Track 33 : PhatLouie_57, Coletti_56, Virgeve_55, Keitherie_57, Chute_56, Hamish_55, Swiphy_58, Charles1_57, Numberten_55
- Track 34 : ImtiyazSitla_57, Trypo_58, Maskar_57, BatteryCK_56, JangoPhett_56, PhrankReynolds_55, Oline_56, Mag7_56, Ashraf_57, Kailash_56, Wallhey_56, MelsMeow_56, Durga_58, GeneCoco_56, Emiris_58, Pinkman_55
- Track 35 : Daka_58, DirtJuice_57
- Track 36 : YouGoGlencoco_57, LemonSlice_57
- Track 37 : Kloppinator_56
- Track 38 : Crownjwl_56, Antonia_55, Vivaldi_57, Schadenfreude_55, Lopsy_53, AltPhacts_55, Eremos_55
- Track 39 : Roy17_55, Dione_54, Phareon_55, Lulumae_54, LuckyMarjie_54, Phunky_55
- Track 40 : CharlieGBrown_56
- Track 41 : Zaider_56, Valjean_55, Spartan300_55, Olive_55, EmpTee_55
- Track 42 : Struggle_56, Doddsville_56, Schueller_57
- Track 43 : Labeouficaum_56, Derpp_55, Virapocalypse_57, MichaelPhcott_56, PhenghisKhan_56, Zonia_57, Hocus_56, TyrionL_56, Kwksand96_56, Phergie_57, Phleuron_56
- Track 44 : DuchessDung_57, Hetaeria_55, UAch1_55
- Track 45 : Roscoe_56, Aelin_55, Manad_55, Robyn_55, Tooj_54, Vaishali24_54
- Track 46 : MrPhizzler_57, Plmatters_55
- Track 47 : Soile_57, DelRivs_55, Simielle_55
- Track 48 : FriarPreacher_55
- Track 49 : Boehler_55
- Track 50 : DaddyDaniels_58
- Track 51 : Pops_55
- Track 52 : Brilliant_58, Omniscient_57

- Track 53 : JAMaL_49
- Track 54 : SirJeffery_53, EastView9101_55
- Track 55 : Serendipitous_53
- Track 56 : Atlantean_26, Phlegm_28, SmallFry_26, Phusco_26, InigoMontoya_27, ValleyTerrace_26, Jemmno_26, ShiaLabeouf_26, Mikro_24, SilverDipper_27, Specks_31, Rahel_26, Essence_25, Momo_25, DTDevon_27, Matsumoto_25, ArcherS7_25, Janiyra_26, Gamgam_26, Capablanca_28, Pivoine_26, CindyLou_26, Littleton_26, BeanWater_22, Ghost_26, IkeLoa_22, Adlitam_26, Amataga_26, Patter_26, Pier_28, InterFolia_33, Chomp_24, Latch_26, Kamryn_26, YoungMoneyMata_26, Jaygup_26, Tortoise16_25, Shnickers_26, LifeSavor_27, Bangla1971_25, Ading_26, Tyke_28, Guwapp_26, LolaVinca_29, DirtMonster_25, Dandelion_30, Quasimodo_26, StephanieG_26, Spec_24, Audrick_28, Naija_26
- Track 57 : Asterius_24, PurduePete_25, Burrough_26, Gabriel_26, BigCity_30, Melpomini_25, Nappy_27, Naval22_28, Mangeria_29, BackyardAgain_23, Wally_25, Colt_19, Bigswole_32, EggyFarm_30, Morizzled23_25, Concombre_25, Caravan_24, Pio_29, LordLeafolot_31, Zeenon_28, JustHall_25, Bxz1_27, DrPhinkDaddy_26, Bipolarisk_25, Megamind_26, Grasshills_30, JayJay_27, Napoleon13_25, I3_28, SrishMeg2525_25, Spud_28, Bonray_26, NuevoMundo_29, Breeniome_26, Blubba_19, Cane17_19, Catera_24, FrayBell_32
- Track 58 : ZygoTaiga_26, Izajani_27, MoMoMixon_27, YemiJoy2021_27, ParkTD_25, Darko_25, Salacia_28, Willis_26, BananaFence_27, Pleione_28, Ava3_27, Loanshark_26, NedWong_27, Shrimp_26, Iota_23, Daffodil_28, Nidhogg_27, Erdmann_27, EasyJones_25, Rizal_24, Drazdys_26, Bread_27, Teardrop_25, EmToTheThree_29, TinyTim_26, Norm_26, Yucca_26, Ronan_21, Delilah_26, StubbySaigey_25, FudgeTart_27, Cali_26, Roots515_26, Gizmo_28, Maby2021_27, MikeLiesIn_26
- Track 59 : Astraea_27, Pinkcreek_18
- Track 60 : Koguma_22, ChickenPhender_25, Sprinklers_26, Cactojaque_23, BadAgartude_27, QBert_24, LinStu_26, Kboogie_26, ET08_21, Rabinovich_25, JulietS_21, Sauce_27, JPickles_24, Babyland_25, Turret_24, Blackbrain_24, Phox_25, Basquiat_25, ChaylaJr_25, Fludd_25, Yassified_23, CharlieB_26, Dietrick_21, Trinitium_25, ErnieJ_27, Sebata_26, EmmaElysia_24, Chargie21_25
- Track 61 : Derek_27, Shifa_23, RoMag_21, HyRo_25, NoodleTree_25
- Track 62 : FoxtrotP1_26
- Track 63 : Shelob_28, Jessibeth14_25, Alice_21, McWolfish_25, Delylah_27, Khaleesi_25, Stubby_24, Flabslab_27, Lee7_25
- Track 64 : Issimir_25
- Track 65 : Ewok_26
- Track 66 : Zalkecks_28
- Track 67 : ScottMcG_26, Shaqnato_22, LRRHood_23, Lukilu_19, McGee_25, Grungle_19
- Track 68 : Jedediah_26
- Track 69 : Ngannou_24
- Track 70 : Chill_58, Erk16_55, WaldoWhy_58, KandZ_55, Nova_55
- Track 71 : Phreeze_70, Beckerton_70, Oaker_71, Thumb_72
- Track 72 : Damien_71
- Track 73 : Puissant_72
- Track 74 : Cborch11_73, Konstantine_75, Megatron06_74
- Track 75 : Sbash_50
- Track 76 : MarkPhew_75
- Track 77 : Strobilo_42, Findley_39
- Track 78 : BoostSeason_40
- Track 79 : TM4_93, Mufasa_40

- Track 80 : DismalStressor_39, Marcoliusprime_39, DismalFunk_39
- Track 81 : ZoeJ_39
- Track 82 : Milly_39
- Track 83 : Pixie_74, TBond007_71
- Track 84 : ShedlockHolmes_77
- Track 85 : Keshu_77
- Track 86 : Pharb_73
- Track 87 : Hurricane_75
- Track 88 : Sunflower1121_79
- Track 89 : Marshawn_72
- Track 90 : SirPhilip_73
- Track 91 : Shadow1_78
- Track 92 : Ximenita_79, Syra333_77
- Track 93 : Amohnition_72, Hammy_72, DARTH_P_72
- Track 94 : TClif_75
- Track 95 : Ellie_70
- Track 96 : Krueger_78
- Track 97 : Ekdilam_69
- Track 98 : Aminay_80
- Track 99 : Ein37_43, Ubuntu_43, Webster2_43
- Track 100 : Hadrien_43, Dewey_41, Hail_41, Luke_43, Luna22_41, Amymech_43, LilHazelnut_43, OBUpride_43, Giles_41, Forge_41, Evanesce_42, Kinbote_43, HH92_42
- Track 101 : DeepSoil15_43, Wishmaker_41
- Track 102 : Gravaillia_42
- Track 103 : Amochick_43
- Track 104 : Gancho_42, Daegal_45
- Track 105 : Yelo_55, MontyDev_56, Nilo_57, Riparian_57, Zenon_56, Send513_56
- Track 106 : Papyrus_56
- Track 107 : Weiss13_55
- Track 108 : Candle_55
- Track 109 : Rope_56
- Track 110 : D12_43, Megabear_44, Taptic_44, Cepens_44, Argie_45, PR_44
- Track 111 : Jeon_44, GodPhather_45
- Track 112 : Hilltopfarm_107, Typha_103

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

The start number called the most often in the published annotations is 48, it was called in 173 of the 542 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ading_26, Adlitam_26, Alice_21, Amataga_26, ArcherS7_25, Asterius_24, Astraea_27, Atlantean_26, Audrick_28, Ava3_27, Babyland_25, BackyardAgain_23, BadAgartude_27, BananaFence_27, Bangla1971_25, Basquiat_25, BeanWater_22, Beckerton_70, BigCity_30, Bigswole_32, Bipolarisk_25, Blackbrain_24, Blubba_19, Bonray_26, Bread_27, Breeniome_26, Burrough_26, Bxz1_27, Cactojaque_23, Cali_26, Cane17_19, Capablanca_28, Caravan_24, Catera_24, Cborch11_73, Chargie21_25, CharlieB_26, ChaylaJr_25, ChickenPhender_25, Chomp_24, CindyLou_26, Colt_19, Concombre_25, DTDevon_27, Daffodil_28, Damien_71,

Dandelion_30, Darko_25, Delilah_26, Delylah_27, Derek_27, Dietrick_21, DirtMonster_25, DrPhinkDaddy_26, Drazdys_26, ET08_21, EasyJones_25, EggyFarm_30, EmToTheThree_29, EmmaElysia_24, Erdmann_27, ErnieJ_27, Essence_25, Ewok_26, Flabslab_27, Fludd_25, FoxtrotP1_26, FrayBell_32, FudgeTart_27, Gabriel_26, Gamgam_26, Ghost_26, Gizmo_28, Grasshills_30, Grungle_19, Guwapp_26, HyRo_25, I3_28, IkeLoa_22, InigoMontoya_27, InterFolia_33, Iota_23, Issimir_25, Izajani_27, JPickles_24, Janiyra_26, JayJay_27, Jaygup_26, Jedediah_26, Jemmno_26, Jessibeth14_25, JulietS_21, JustHall_25, Kamryn_26, Kboogie_26, Khaleesi_25, Koguma_22, Konstantine_75, LRRHood_23, Latch_26, Lee7_25, LifeSavor_27, LinStu_26, Littleton_26, Loanshark_26, LolaVinca_29, LordLeafolot_31, Lukilu_19, Maby2021_27, Mangeria_29, Matsumoto_25, McGee_25, McWolfish_25, Megamind_26, Megatron06_74, Melpomini_25, MikeLiesIn_26, Mikro_24, MoMoMixon_27, Momo_25, Morizzled23_25, Naija_26, Napoleon13_25, Nappy_27, Naval22_28, NedWong_27, Ngannou_24, Nidhogg_27, NoodleTree_25, Norm_26, NuevoMundo_29, Oaker_71, ParkTD_25, Patter_26, Phlegm_28, Phox_25, Phreeze_70, Phusco_26, Pier_28, Pinkcreek_18, Pio_29, Pivoine_26, Pleione_28, PurduePete_25, QBert_24, Quasimodo_26, Rabinovich_25, Rahel_26, Rizal_24, RoMag_21, Ronan_21, Roots515_26, Salacia_28, Sauce_27, ScottMcG_26, Sebata_26, Shaq nato_22, Shelob_28, ShiaLabeouf_26, Shifa_23, Shnickers_26, Shrimp_26, SilverDipper_27, SmallFry_26, Spec_24, Specks_31, Sprinklers_26, Spud_28, SrishMeg2525_25, StephanieG_26, StubbySaigey_25, Stubby_24, Teardrop_25, Thumb_72, TinyTim_26, Tortoise16_25, Trinitium_25, Turret_24, Tyke_28, ValleyTerrace_26, Wally_25, Willis_26, Yassified_23, YemiJoy2021_27, YoungMoneyMata_26, Yucca_26, Zalkecks_28, Zeenon_28, ZygoTaiga_26,

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

- Acolyte_72, Agape74_37, Candle_55, Cuke_52, Hurricane_75, Keshu_77, MontyDev_56, Nilo_57, Papyrus_56, Pixie_74, Riparian_57, Rope_56, Send513_56, ShedlockHolmes_77, TBond007_71, Weiss13_55, Yelo_55, Zenon_56,

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

- ABU_57, AbbyPaige_37, AbsoluteMadLad_55, Adriana_57, Aelin_55, AltPhacts_55, Altwerkus_54, Aminay_80, Amochick_43, Amohniton_72, Amymech_43, Anderson_57, Andre_59, Anselm_37, Antonia_55, Apizium_55, Argie_45, Ashraf_57, Badfish_57, Banjo_55, Basato_56, BatteryCK_56, Beaglebox_56, Bishoperium_56, BlackStallion_57, BlueHusk_57, Bluephacebaby_56, BobSwaget_38, Boehler_55, BoostSeason_40, Brilliant_58, Buckeye_55, Buggy_38, Burr_56, CamL_56, CampRoach_57, Cannibal_56, Carthage_54, Centaur_37, Cepens_44, Chaelin_57, Chah_58, Charles1_57, CharlieGBrown_56, CheetO_55, Cher_56, Childish_56, Chill_58, ChipMunk_38, Chorkpop_56, Chunky_54, Chute_56, Cobra_57, Colbert_54, Coletti_56, Cornobble_55, Cosmolli16_57, Craff_59, Crownjwl_56, Crucio_36, D12_43, DaddyDaniels_58, Daegal_45, Daffy_56, Daka_58, Dalmatian_37, DarthP_72, DarthPhader_38, Dati_56, DeepSoil15_43, DelRivs_55, Derpp_55, Dewey_41, Dice_58, Dingo_54, Dione_54, DirtJuice_57, DismalFunk_39, DismalStressor_39, Doddsville_56, DoesntMatter_54, DonSancho_54, Drake55_38, DuchessDung_57, DudeLittle_35, Duggie_56, Durga_58, EastView9101_55, Ein37_43, Ekdilam_69, Ellie_70, Emiris_58, EmpTee_55, Equemioh13_37, Eremos_55, Erk16_55, Etaye_56, Eugenia_56, Evanesce_42, EvilGenius_38, Fameo_36, Fang_57, Findley_39, FiringLine_36, Flare16_36, FluffyNinja_57, Forge_41, Fowlmouth_56, Fozzie_55, Frankicide_55, Freya_54, FriarPreacher_55, Fringe_60, FugateOSU_56, Gancho_42, Gareth_56, GaugeLDP_37, GeneCoco_56, Georgie2_37, Giles_41, Giraffe_57, GodPhather_45, Gophee_57, Grand2040_56,

Gravallia_42, Gwilliam_58, Gyarad_0054, HH92_42, HSavage_55, Hadrien_43, Hail_41, Haimas_55, Haleema_55, Hamish_55, Hammy_72, HarryHoudini_38, Hartsy_56, Harvey_55, Held_56, HenryJackson_56, Hertubise_56, Hetaeria_55, HighStump_58, Hilltopfarm_107, Hocus_56, Horchata_55, ImtiyazSitla_57, Inchworm_58, Indlulamithi_55, Inverness_55, Iridoclysis_57, IsaacEli_57, JAMaL_49, JDog_56, JacAttac_57, JakeO_56, JangoPhett_56, Jeon_44, Jerm_37, Jillium_56, Jiminy_56, JoshKayV_37, KLucky39_54, Kahve_56, Kailash_56, KandZ_55, Katniss_57, Keitherie_57, Kikipoo_57, Kimbrough_57, Kinbote_43, KingCyrus_38, KingTut_48, KingVeVeVe_54, KlimbOn_55, Kloppinator_56, Krueger_78, Kwadwo_55, Kwksand96_56, Labeouficaum_56, LasagnaCat_57, Lasso_56, LeeLot_56, Lego3393_55, Legolas_58, LeiMonet_58, LemonSlice_57, Leviathan_37, LilHazelNut_43, LilTurb_36, Longacauda_57, Lopsy_53, LostAndPhound_56, LuckyMarjie_54, Luke_43, Lulumae_54, Lulwa_54, Lumine_57, Luna22_41, MRabcd_55, Mag7_56, Magic8_57, Mana_55, Manad_55, Mao1_58, Marcoliusprime_39, MarkPhew_75, Marshawn_72, Maru_56, Maskar_57, Matalotodo_55, Mcshane_55, Mecca_56, Megabear_44, Megamind20_57, Megatron_57, Melc17_56, MelsMeow_56, Mesh1_57, MichaelPhcott_56, MiculUcigas_36, Miko_39, Mikota_54, Milly_39, MiniBoss_54, MitKao_56, Morgushi_56, Morty_57, Mosaic_55, MrMiyagi_55, MrPhizzler_57, Mufasa_40, Mulan_56, Murdoc_55, Mutante_56, NaSiaTalie_36, Nacho_0057, Newman_55, Nicole21_57, Nova_55, NumberTen_55, Nyala_55, OBUpride_43, OSmaximus_57, Olak_56, Oline_56, Olive_55, OliverWalter_55, Omniscient_57, Oosterbaan_56, Orfeu_55, Orion_57, Orwigg_57, PG1_57, PR_44, Pacifista_58, Phamished_57, Pharb_73, Phareon_55, PhatCats2014_57, PhatLouie_57, PhenghisKhan_56, Pherdinand_57, Phergie_57, Phipps_56, Phleuron_56, PhrankReynolds_55, PhrodoBaggins_57, Phunky_55, Piglet_0056, PinheadLarry_57, Pinkman_55, Pipsqueak_55, Placalicious_56, Plmatters_55, Podrick_54, Pops_55, Potter_55, Power_35, Prickles_57, ProfessorX_55, Puhltonio_56, Puissant_72, QueenB2_36, QueenBeane_56, QueenBeesly_36, Quisquilliae_57, Rachaly_39, RedMaple_57, Retro23_37, Ricotta_56, Riggan_57, Robyn_55, Roliet_54, Roscoe_56, Roy17_55, SDcharge11_55, Samaymay_56, SassyCat97_55, Sbash_50, Schadenfreude_55, Schueller_57, Scoot17C_57, Scrick_57, Selr12_58, SemperFi_37, Serendipitous_53, Serendipity_56, Serpentine_0056, Shadow1_78, Sheila_54, Sigman_57, Simielle_55, SirJeffery_53, SirPhilip_73, Skippy_57, Slatt_57, Smeagan_38, SnapTap_36, Soile_57, Solosis_55, Sophia_55, Soto_54, Spartan300_55, Squid_56, Squiggle_57, Strobilo_42, Struggle_56, Suffolk_54, Sunflower1121_79, Surely_56, SweetiePie_36, Swiphy_58, Swish_57, Syra333_77, TClif_75, TM4_93, TallGrassMM_56, Taptic_44, TarsusIV_35, Telesworld_54, Thora_56, ThreeOh3D2_57, Timmi_55, TomBombadil_56, Tomlarah_57, Toni_55, Tooj_54, Trooper_37, True_55, Trypo_58, Turbido_36, Typha_103, TyrionL_56, UAch1_55, Ubuntu_43, UncleHowie_55, Updawn_37, Usavi_56, Vaishali24_54, Valjean_55, Vaticameos_53, Veritas_57, Virapocalypse_57, Virgeve_55, Vista_55, Vivaldi_57, Vortex_56, WaldoWhy_58, Wallhey_56, Waterdiva_56, Webster2_43, Weher20_56, WeiHuaDA_41, Weirdo19_40, Whabigail7_36, WideWale_37, Windsor_56, Wishmaker_41, Xavier_55, Ximenita_79, Yoshand_57, YouGoGlencoco_57, Zaider_56, Zelda_56, ZoeJ_39, Zonia_57,

Summary by start number:

Start 15:

- Found in 22 of 594 (3.7%) of genes in pham
- Manual Annotations of this start: 4 of 542
- Called 18.2% of time when present

- Phage (with cluster) where this start called: Daegal_45 (Q), DeepSoil15_43 (Q), Gancho_42 (Q), Wishmaker_41 (Q),

Start 16:

- Found in 1 of 594 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sbash_50 (I2),

Start 18:

- Found in 7 of 594 (1.2%) of genes in pham
- Manual Annotations of this start: 5 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Candle_55 (R), MontyDev_56 (R), Nilo_57 (R), Riparian_57 (R), Send513_56 (R), Yelo_55 (R), Zenon_56 (R),

Start 19:

- Found in 2 of 594 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fowlmouth_56 (AC), MrMiyagi_55 (AC),

Start 22:

- Found in 1 of 594 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cuke_52 (AC),

Start 24:

- Found in 1 of 594 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GaugeLDP_37 (A2),

Start 25:

- Found in 1 of 594 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Serendipitous_53 (B5),

Start 26:

- Found in 9 of 594 (1.5%) of genes in pham
- Manual Annotations of this start: 1 of 542
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Papyrus_56 (R),

Start 28:

- Found in 22 of 594 (3.7%) of genes in pham
- Manual Annotations of this start: 15 of 542
- Called 68.2% of time when present
- Phage (with cluster) where this start called: Amochick_43 (Q), Amymech_43 (Q), Dewey_41 (Q), Evanesce_42 (Q), Forge_41 (Q), Giles_41 (Q), Gravaillia_42 (Q), HH92_42 (Q), Hadrien_43 (Q), Hail_41 (Q), Kinbote_43 (Q), LilHazelNut_43 (Q),

Luke_43 (Q), Luna22_41 (Q), OBUpride_43 (Q),

Start 30:

- Found in 20 of 594 (3.4%) of genes in pham
- Manual Annotations of this start: 18 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amohnition_72 (K6), DARTH_P_72 (K6), Ekdilam_69 (K6), Ellie_70 (K6), Hammy_72 (K6), Hurricane_75 (K3), Keshu_77 (K3), Krueger_78 (K6), MarkPhew_75 (K1), Marshawn_72 (K6), Pharb_73 (K3), Pixie_74 (K3), Shadow1_78 (K6), ShedlockHolmes_77 (K3), SirPhilip_73 (K6), Sunflower1121_79 (K6), Syra333_77 (K6), TBond007_71 (K3), TClif_75 (K6), Ximenita_79 (K6),

Start 31:

- Found in 8 of 594 (1.3%) of genes in pham
- Manual Annotations of this start: 8 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argie_45 (W), Cepens_44 (W), D12_43 (W), GodPhather_45 (W), Jeon_44 (W), Megabear_44 (W), PR_44 (W), Taptic_44 (W),

Start 33:

- Found in 84 of 594 (14.1%) of genes in pham
- No Manual Annotations of this start.
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Weirido19_40 (AH),

Start 36:

- Found in 10 of 594 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 542
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Weiss13_55 (R),

Start 37:

- Found in 10 of 594 (1.7%) of genes in pham
- Manual Annotations of this start: 9 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoostSeason_40 (K2), DismalFunk_39 (K2), DismalStressor_39 (K2), Findley_39 (K2), Marcoliusprime_39 (K2), Milly_39 (K2), Mufasa_40 (K2), Strobilo_42 (K2), TM4_93 (K2), ZoeJ_39 (K2),

Start 38:

- Found in 33 of 594 (5.6%) of genes in pham
- Manual Annotations of this start: 3 of 542
- Called 15.2% of time when present
- Phage (with cluster) where this start called: Ein37_43 (Q), Indlulamithi_55 (AC), Mao1_58 (AD), Ubuntu_43 (Q), Webster2_43 (Q),

Start 39:

- Found in 1 of 594 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JAMaL_49 (B4),

Start 43:

- Found in 13 of 594 (2.2%) of genes in pham
- Manual Annotations of this start: 2 of 542
- Called 15.4% of time when present
- Phage (with cluster) where this start called: Aminay_80 (K7), Rope_56 (R),

Start 44:

- Found in 5 of 594 (0.8%) of genes in pham
- Manual Annotations of this start: 5 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chill_58 (D1), Erk16_55 (D1), KandZ_55 (D1), Nova_55 (D1), WaldoWhy_58 (D1),

Start 45:

- Found in 43 of 594 (7.2%) of genes in pham
- Manual Annotations of this start: 40 of 542
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyPaige_37 (A2), Acolyte_72 (A2), Agape74_37 (A2), Anselm_37 (A2), Buggy_38 (A2), Centaur_37 (A2), ChipMunk_38 (A2), Crucio_36 (A2), Dalmatian_37 (A2), DarthPhader_38 (A12), Drake55_38 (A2), DudeLittle_35 (A2), EastView9101_55 (B5), Equemioh13_37 (A2), EvilGenius_38 (A2), Fameo_36 (A2), FiringLine_36 (A2), Flare16_36 (A2), Georgie2_37 (A2), HarryHoudini_38 (A2), Jerm_37 (A2), JoshKayV_37 (A2), KingCyrus_38 (A2), Leviathan_37 (A2), LiITurb_36 (A2), MiculUcigas_36 (A2), NaSiaTalie_36 (A2), Power_35 (A2), QueenB2_36 (A2), QueenBeesly_36 (A2), Retro23_37 (A2), SemperFi_37 (A2), SirJeffery_53 (B5), Smeagan_38 (A2), SnapTap_36 (A2), SweetiePie_36 (A2), TarsusIV_35 (A2), Trooper_37 (A2), Turbido_36 (A2), Updawg_37 (A2), WeiHuaDA_41 (A2), Whabigail7_36 (A2), WideWale_37 (A2),

Start 48:

- Found in 207 of 594 (34.8%) of genes in pham
- Manual Annotations of this start: 173 of 542
- Called 91.3% of time when present
- Phage (with cluster) where this start called: Ading_26 (C1), Adlitam_26 (C1), Alice_21 (C1), Amataga_26 (C1), ArcherS7_25 (C1), Asterius_24 (C1), Astraea_27 (C1), Atlantean_26 (C1), Audrick_28 (C1), Ava3_27 (C1), Babyland_25 (C1), BackyardAgain_23 (C1), BadAgartude_27 (C1), BananaFence_27 (C1), Bangla1971_25 (C1), Basquiat_25 (C1), BeanWater_22 (C1), Beckerton_70 (H1), BigCity_30 (C1), Bigswole_32 (C1), Bipolarisk_25 (C1), Blackbrain_24 (C1), Blubba_19 (C1), Bonray_26 (C1), Bread_27 (C1), Breeniome_26 (C1), Burrough_26 (C1), Bxz1_27 (C1), Cactojaque_23 (C1), Cali_26 (C1), Cane17_19 (C1), Capablanca_28 (C1), Caravan_24 (C1), Catera_24 (C1), Cborch11_73 (H1), Chargie21_25 (C1), CharlieB_26 (C1), ChaylaJr_25 (C1), ChickenPhender_25 (C1), Chomp_24 (C1), CindyLou_26 (C1), Colt_19 (C1), Concombre_25 (C1), DTDevon_27 (C1), Daffodil_28 (C1), Damien_71 (H1), Dandelion_30 (C1), Darko_25 (C1), Delilah_26 (C1), Delylah_27 (C1), Derek_27 (C1), Dietrick_21 (C1), DirtMonster_25 (C1), DrPhinkDaddy_26 (C1), Drazdys_26 (C1), ET08_21 (C1), EasyJones_25 (C1), EggyFarm_30 (C1), EmToTheThree_29 (C1), EmmaElysia_24 (C1), Erdmann_27 (C1), ErnieJ_27 (C1), Essence_25 (C1), Ewok_26 (C1), Flabslab_27 (C1), Fludd_25 (C1), FoxtrotP1_26 (C1), FrayBell_32 (C1), FudgeTart_27 (C1), Gabriel_26 (C1), Gamgam_26 (C1), Ghost_26 (C1), Gizmo_28 (C1), Grasshills_30 (C1), Grungle_19 (C1), Guwapp_26 (C1), HyRo_25 (C1), I3_28

(C1), IkeLoa_22 (C1), InigoMontoya_27 (C1), InterFolia_33 (C1), Iota_23 (C1), Issimir_25 (C1), Izajani_27 (C1), JPickles_24 (C1), Janiyra_26 (C1), JayJay_27 (C1), Jaygup_26 (C1), Jedediah_26 (C1), Jemmno_26 (C1), Jessibeth14_25 (C1), JulietS_21 (C1), JustHall_25 (C1), Kamryn_26 (C1), Kboogie_26 (C1), Khaleesi_25 (C1), Koguma_22 (C1), Konstantine_75 (H1), LRRHood_23 (C1), Latch_26 (C1), Lee7_25 (C1), LifeSavor_27 (C1), LinStu_26 (C1), Littleton_26 (C1), Loanshark_26 (C1), LolaVinca_29 (C1), LordLeafolot_31 (C1), Lukilu_19 (C1), Maby2021_27 (C1), Mangeria_29 (C1), Matsumoto_25 (C1), McGee_25 (C1), McWolfish_25 (C1), Megamind_26 (C1), Megatron06_74 (H1), Melpomini_25 (C1), MikeLiesIn_26 (C1), Mikro_24 (C1), MoMoMixon_27 (C1), Momo_25 (C1), Morizzled23_25 (C1), Naija_26 (C1), Napoleon13_25 (C1), Nappy_27 (C1), Naval22_28 (C1), NedWong_27 (C1), Ngannou_24 (C1), Nidhogg_27 (C1), NoodleTree_25 (C1), Norm_26 (C1), NuevoMundo_29 (C1), Oaker_71 (H1), ParkTD_25 (C1), Patter_26 (C1), Phlegm_28 (C1), Phox_25 (C1), Phreeze_70 (H1), Phusco_26 (C1), Pier_28 (C1), Pinkcreek_18 (C1), Pio_29 (C1), Pivoine_26 (C1), Pleione_28 (C1), PurduePete_25 (C1), QBert_24 (C1), Quasimodo_26 (C1), Rabinovish_25 (C1), Rahel_26 (C1), Rizal_24 (C1), RoMag_21 (C1), Ronan_21 (C1), Roots515_26 (C1), Salacia_28 (C1), Sauce_27 (C1), ScottMcG_26 (C1), Sebata_26 (C1), Shaqnato_22 (C1), Shelob_28 (C1), ShiaLabeouf_26 (C1), Shifa_23 (C1), Shnickers_26 (C1), Shrimp_26 (C1), SilverDipper_27 (C1), SmallFry_26 (C1), Spec_24 (C1), Specks_31 (C1), Sprinklers_26 (C1), Spud_28 (C1), SrishMeg2525_25 (C1), StephanieG_26 (C1), StubbySaigey_25 (C1), Stubby_24 (C1), Teardrop_25 (C1), Thumb_72 (H1), TinyTim_26 (C1), Tortoise16_25 (C1), Trinitium_25 (C1), Turret_24 (C1), Tyke_28 (C1), ValleyTerrace_26 (C1), Wally_25 (C1), Willis_26 (C1), Yassified_23 (C1), YemiJoy2021_27 (C1), YoungMoneyMata_26 (C1), Yucca_26 (C1), Zalkecks_28 (C1), Zeenon_28 (C1), ZygoTaiga_26 (C1),

Start 49:

- Found in 3 of 594 (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: Puissant_72 (H1),

Start 51:

- Found in 270 of 594 (45.5%) of genes in pham
- Manual Annotations of this start: 152 of 542
- Called 64.8% of time when present
- Phage (with cluster) where this start called: Aelin_55 (B1), Altwerkus_54 (B1), Anderson_57 (B1), Andre_59 (B1), Apizium_55 (B1), Ashraf_57 (B1), Banjo_55 (B1), Basato_56 (B1), BatteryCK_56 (B1), Bishoperium_56 (B1), BlackStallion_57 (B1), BlueHusk_57 (B1), Bluephacebaby_56 (B1), Brilliant_58 (B1), Buckeye_55 (B1), CamL_56 (B1), CampRoach_57 (B1), Cannibal_56 (B1), Carthage_54 (B1), Chaelin_57 (B1), Charles1_57 (B1), CheetO_55 (B1), Childish_56 (B1), Chorkpop_56 (B1), Chunky_54 (B1), Chute_56 (B1), Coletti_56 (B1), Cornobble_55 (B1), Cosmolli16_57 (B1), Craff_59 (B1), Daffy_56 (B1), Dice_58 (B1), Dione_54 (B1), Doddsville_56 (B1), DonSanchon_54 (B1), Durga_58 (B1), Emiris_58 (B1), EmpTee_55 (B1), Etaye_56 (B1), Eugenia_56 (B1), Fozzie_55 (B1), FriarPreacher_55 (B1), Fringe_60 (B1), Gareth_56 (B1), GeneCoco_56 (B1), Giraffe_57 (B1), Gophee_57 (B1), Gwilliam_58 (B1), Gyarad_0054 (B1), Haimas_55 (B1), Haleema_55 (B1), Hamish_55 (B1), Harvey_55 (B1), Hertubise_56 (B1), HighStump_58 (B1), Horchata_55 (B1), ImtiyazSitla_57 (B1), Inchworm_58 (B1), Inverness_55 (B1), JDog_56 (B1), JacAttac_57 (B1), JakeO_56 (B1), JangoPhett_56 (B1), Jillium_56 (B1), KLucky39_54 (B1), Kahve_56 (B1), Kailash_56 (B1),

Katniss_57 (B1), Keitherie_57 (B1), Kikipoo_57 (B1), Kimbrough_57 (B1), KingTut_48 (B1), KingVeVeVe_54 (B1), Kwadwo_55 (B1), LasagnaCat_57 (B1), Lasso_56 (B1), LeeLot_56 (B1), Lego3393_55 (B1), Legolas_58 (B1), LeiMonet_58 (B1), LemonSlice_57 (B1), Longacauda_57 (B1), LostAndPhound_56 (B1), LuckyMarjie_54 (B1), Lulumae_54 (B1), Lulwa_54 (B1), Lumine_57 (B1), MRabcd_55 (B1), Mag7_56 (B1), Mana_55 (B1), Manad_55 (B1), Maskar_57 (B1), Matalotodo_55 (B1), Mecca_56 (B1), Megamind20_57 (B1), Megatron_57 (B1), MelsMeow_56 (B1), Morty_57 (B1), Mosaic_55 (B1), MrPhizzler_57 (B1), Nacho_0057 (B1), Newman_55 (B1), Numberten_55 (B1), OSmaximus_57 (B1), Olak_56 (B1), Oline_56 (B1), Olive_55 (B1), OliverWalter_55 (B1), Omniscient_57 (B1), Orfeu_55 (B1), Orwigg_57 (B1), Pacifista_58 (B1), Phareon_55 (B1), PhatCats2014_57 (B1), PhatLouie_57 (B1), Pherdinand_57 (B1), Phipps_56 (B1), PhrankReynolds_55 (B1), Phunky_55 (B1), Piglet_0056 (B1), Pinkman_55 (B1), Pipsqueak_55 (B1), Plmatters_55 (B1), Pops_55 (B1), Potter_55 (B1), Prickles_57 (B1), Puhltonio_56 (B1), QueenBeane_56 (B1), Quisquiliae_57 (B1), RedMaple_57 (B1), Ricotta_56 (B1), Riggan_57 (B1), Robyn_55 (B1), Roliet_54 (B1), Roscoe_56 (B1), Roy17_55 (B1), SDcharge11_55 (B1), Samaymay_56 (B1), SassyCat97_55 (B1), Schueller_57 (B1), Scrick_57 (B1), Selr12_58 (B1), Serpentine_0056 (B1), Solosis_55 (B1), Sophia_55 (B1), Soto_54 (B1), Spartan300_55 (B1), Squid_56 (B1), Struggle_56 (B1), Suffolk_54 (B1), Surely_56 (B1), Swiphy_58 (B1), TallGrassMM_56 (B1), Telesworld_54 (B1), Thora_56 (B1), ThreeOh3D2_57 (B1), TomBombadil_56 (B1), Toni_55 (B1), Tooj_54 (B1), Trypo_58 (B1), UncleHowie_55 (B1), Vaishali24_54 (B1), Valjean_55 (B1), Vaticameos_53 (B1), Veritas_57 (B1), Virgeve_55 (B1), Vista_55 (B1), Vortex_56 (B1), Wallhey_56 (B1), Windsor_56 (B1), Xavier_55 (B1), Yoshand_57 (B1), YouGoGlencoco_57 (B1), Zaider_56 (B1), Zelda_56 (B1),

Start 52:

- Found in 270 of 594 (45.5%) of genes in pham
- Manual Annotations of this start: 94 of 542
- Called 35.2% of time when present
- Phage (with cluster) where this start called: ABU_57 (B1), AbsoluteMadLad_55 (B1), Adriana_57 (B1), AltPhacts_55 (B1), Antonia_55 (B1), Badfish_57 (B1), Beaglebox_56 (B1), Boehler_55 (B1), Burr_56 (B1), Chah_58 (B1), CharlieGBrown_56 (B1), Cher_56 (B1), Cobra_57 (B1), Colbert_54 (B1), Crownjwl_56 (B1), DaddyDaniels_58 (B1), Daka_58 (B1), Dati_56 (B1), DelRivs_55 (B1), Derpp_55 (B1), Dingo_54 (B1), DirtJuice_57 (B1), DoesntMatter_54 (B1), DuchessDung_57 (B1), Duggie_56 (B1), Eremos_55 (B1), Fang_57 (B1), FluffyNinja_57 (B1), Frankicide_55 (B1), Freya_54 (B1), FugateOSU_56 (B1), Grand2040_56 (B1), HSavage_55 (B1), Hartsy_56 (B1), Held_56 (B1), HenryJackson_56 (B1), Hetaeria_55 (B1), Hocus_56 (B1), Iridoclysis_57 (B1), IsaacEli_57 (B1), Jiminy_56 (B1), KlimbOn_55 (B1), Kloppinator_56 (B1), Kwksand96_56 (B1), Labeouficaum_56 (B1), Lopsy_53 (B1), Magic8_57 (B1), Maru_56 (B1), Mcshane_55 (B1), Melc17_56 (B1), Mesh1_57 (B1), MichaelPhcott_56 (B1), Mikota_54 (B1), MiniBoss_54 (B1), MitKao_56 (B1), Morgushi_56 (B1), Mulan_56 (B1), Murdoc_55 (B1), Mutante_56 (B1), Nicole21_57 (B1), Nyala_55 (B1), Oosterbaan_56 (B1), Orion_57 (B1), PG1_57 (B1), Phamished_57 (B1), PhenghisKhan_56 (B1), Phergie_57 (B1), Phleuron_56 (B1), PhrodoBaggins_57 (B1), PinheadLarry_57 (B1), Placalicious_56 (B1), Podrick_54 (B1), ProfessorX_55 (B1), Schadenfreude_55 (B1), Scoot17C_57 (B1), Serendipity_56 (B1), Sheila_54 (B1), Sigman_57 (B1), Simielle_55 (B1), Skippy_57 (B1), Slatt_57 (B1), Soile_57 (B1), Squiggle_57 (B1), Swish_57 (B1), Timmi_55 (B1), Tomlarah_57 (B1), True_55 (B1), TyrionL_56 (B1), UAch1_55 (B1), Usavi_56 (B1),

Virapocalypse_57 (B1), Vivaldi_57 (B1), Waterdiva_56 (B1), Weher20_56 (B1), Zonia_57 (B1),

Start 55:

- Found in 3 of 594 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 542
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Hilltopfarm_107 (Y), Typha_103 (Y),

Start 56:

- Found in 35 of 594 (5.9%) of genes in pham
- Manual Annotations of this start: 3 of 542
- Called 8.6% of time when present
- Phage (with cluster) where this start called: BobSwaget_38 (A2), Miko_39 (A2), Rachaly_39 (A2),

Summary by clusters:

There are 21 clusters represented in this pham: A12, Q, AC, I2, AD, K2, AH, H1, R, K3, B5, K1, A2, K7, B1, W, Y, B4, C1, D1, K6,

Info for manual annotations of cluster A12:

- Start number 45 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A2:

- Start number 24 was manually annotated 1 time for cluster A2.
- Start number 45 was manually annotated 39 times for cluster A2.
- Start number 56 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster AC:

- Start number 19 was manually annotated 2 times for cluster AC.
- Start number 22 was manually annotated 1 time for cluster AC.
- Start number 38 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster B1:

- Start number 51 was manually annotated 152 times for cluster B1.
- Start number 52 was manually annotated 94 times for cluster B1.

Info for manual annotations of cluster B4:

- Start number 39 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:

- Start number 25 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster C1:

- Start number 48 was manually annotated 166 times for cluster C1.

Info for manual annotations of cluster D1:

- Start number 44 was manually annotated 5 times for cluster D1.

Info for manual annotations of cluster H1:

- Start number 48 was manually annotated 7 times for cluster H1.

Info for manual annotations of cluster I2:

- Start number 16 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster K1:

- Start number 30 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K2:

- Start number 37 was manually annotated 9 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 30 was manually annotated 5 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 30 was manually annotated 12 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 43 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster Q:

- Start number 15 was manually annotated 4 times for cluster Q.
- Start number 28 was manually annotated 15 times for cluster Q.
- Start number 38 was manually annotated 2 times for cluster Q.

Info for manual annotations of cluster R:

- Start number 18 was manually annotated 5 times for cluster R.
- Start number 26 was manually annotated 1 time for cluster R.
- Start number 36 was manually annotated 1 time for cluster R.
- Start number 43 was manually annotated 1 time for cluster R.

Info for manual annotations of cluster W:

- Start number 31 was manually annotated 8 times for cluster W.

Info for manual annotations of cluster Y:

- Start number 55 was manually annotated 2 times for cluster Y.

Gene Information:

Gene: ABU_57 Start: 48858, Stop: 48490, Start Num: 52

Candidate Starts for ABU_57:

(12, 49062), (14, 49017), (17, 48987), (Start: 51 @48861 has 152 MA's), (Start: 52 @48858 has 94 MA's), (64, 48819), (77, 48738), (92, 48576), (94, 48573), (105, 48522),

Gene: AbbyPaige_37 Start: 27571, Stop: 27951, Start Num: 45

Candidate Starts for AbbyPaige_37:

(Start: 45 @27571 has 40 MA's), (74, 27652), (87, 27760), (91, 27811), (92, 27841), (113, 27928),

Gene: AbsoluteMadLad_55 Start: 48570, Stop: 48202, Start Num: 52

Candidate Starts for AbsoluteMadLad_55:

(12, 48774), (14, 48729), (17, 48699), (33, 48612), (Start: 51 @48573 has 152 MA's), (Start: 52 @48570 has 94 MA's), (64, 48531), (77, 48450), (92, 48288), (94, 48285), (105, 48234),

Gene: Acolyte_72 Start: 45510, Stop: 45139, Start Num: 45

Candidate Starts for Acolyte_72:

(13, 45657), (20, 45597), (35, 45528), (Start: 45 @45510 has 40 MA's), (Start: 48 @45501 has 173 MA's), (64, 45459), (75, 45399), (92, 45222), (101, 45198), (105, 45171),

Gene: Ading_26 Start: 8133, Stop: 8489, Start Num: 48

Candidate Starts for Ading_26:

(Start: 48 @8133 has 173 MA's), (78, 8247), (89, 8340), (105, 8436),

Gene: Adlitam_26 Start: 8150, Stop: 8506, Start Num: 48

Candidate Starts for Adlitam_26:

(Start: 48 @8150 has 173 MA's), (78, 8264), (89, 8357), (105, 8453),

Gene: Adriana_57 Start: 48855, Stop: 48487, Start Num: 52

Candidate Starts for Adriana_57:

(12, 49059), (14, 49014), (17, 48984), (Start: 51 @48858 has 152 MA's), (Start: 52 @48855 has 94 MA's), (64, 48816), (77, 48735), (92, 48573), (94, 48570), (105, 48519),

Gene: Aelin_55 Start: 48137, Stop: 47766, Start Num: 51

Candidate Starts for Aelin_55:

(12, 48338), (14, 48293), (17, 48263), (33, 48176), (Start: 51 @48137 has 152 MA's), (Start: 52 @48134 has 94 MA's), (64, 48095), (76, 48023), (77, 48014), (92, 47852), (94, 47849), (105, 47798),

Gene: Agape74_37 Start: 27547, Stop: 27945, Start Num: 45

Candidate Starts for Agape74_37:

(Start: 45 @27547 has 40 MA's), (Start: 48 @27556 has 173 MA's), (92, 27838), (95, 27844), (104, 27874),

Gene: Alice_21 Start: 7231, Stop: 7587, Start Num: 48

Candidate Starts for Alice_21:

(Start: 48 @7231 has 173 MA's), (89, 7438), (105, 7534),

Gene: AltPhacts_55 Start: 47883, Stop: 47515, Start Num: 52

Candidate Starts for AltPhacts_55:

(12, 48087), (14, 48042), (17, 48012), (33, 47925), (Start: 51 @47886 has 152 MA's), (Start: 52 @47883 has 94 MA's), (64, 47844), (76, 47772), (77, 47763), (92, 47601), (94, 47598), (105, 47547),

Gene: Altwerkus_54 Start: 48025, Stop: 47654, Start Num: 51

Candidate Starts for Altwerkus_54:

(12, 48226), (14, 48181), (17, 48151), (Start: 51 @48025 has 152 MA's), (Start: 52 @48022 has 94 MA's), (64, 47983), (77, 47902), (92, 47740), (94, 47737), (105, 47686),

Gene: Amataga_26 Start: 8154, Stop: 8510, Start Num: 48

Candidate Starts for Amataga_26:

(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Aminay_80 Start: 51264, Stop: 51629, Start Num: 43

Candidate Starts for Aminay_80:

(3, 50760), (10, 50946), (Start: 43 @51264 has 2 MA's), (81, 51402), (104, 51579), (105, 51594),

Gene: Amochick_43 Start: 33322, Stop: 32897, Start Num: 28

Candidate Starts for Amochick_43:

(Start: 15 @33415 has 4 MA's), (21, 33361), (Start: 28 @33322 has 15 MA's), (Start: 38 @33298 has 3 MA's), (Start: 56 @33256 has 3 MA's), (57, 33253), (65, 33232), (70, 33211), (74, 33181), (86, 33079), (104, 32965), (105, 32950), (106, 32947), (110, 32926), (116, 32905),

Gene: Amohnition_72 Start: 50158, Stop: 50541, Start Num: 30

Candidate Starts for Amohnition_72:

(Start: 30 @50158 has 18 MA's), (32, 50164), (63, 50218), (80, 50305), (84, 50344), (89, 50380), (102, 50473), (104, 50482),

Gene: Amymech_43 Start: 33316, Stop: 32891, Start Num: 28

Candidate Starts for Amymech_43:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: Anderson_57 Start: 48597, Stop: 48226, Start Num: 51

Candidate Starts for Anderson_57:

(12, 48798), (14, 48753), (17, 48723), (Start: 51 @48597 has 152 MA's), (Start: 52 @48594 has 94 MA's), (64, 48555), (77, 48474), (92, 48312), (94, 48309), (105, 48258),

Gene: Andre_59 Start: 48773, Stop: 48402, Start Num: 51

Candidate Starts for Andre_59:

(12, 48974), (14, 48929), (17, 48899), (Start: 51 @48773 has 152 MA's), (Start: 52 @48770 has 94 MA's), (64, 48731), (77, 48650), (92, 48488), (94, 48485), (105, 48434),

Gene: Anselm_37 Start: 27656, Stop: 28039, Start Num: 45

Candidate Starts for Anselm_37:

(Start: 45 @27656 has 40 MA's), (74, 27740), (87, 27848), (91, 27899), (92, 27929), (113, 28016),

Gene: Antonia_55 Start: 48134, Stop: 47766, Start Num: 52

Candidate Starts for Antonia_55:

(12, 48338), (14, 48293), (17, 48263), (33, 48176), (Start: 51 @48137 has 152 MA's), (Start: 52 @48134 has 94 MA's), (64, 48095), (76, 48023), (77, 48014), (92, 47852), (94, 47849), (105, 47798),

Gene: Apizium_55 Start: 47731, Stop: 47360, Start Num: 51

Candidate Starts for Apizium_55:

(12, 47932), (14, 47887), (17, 47857), (33, 47770), (Start: 51 @47731 has 152 MA's), (Start: 52 @47728 has 94 MA's), (64, 47689), (76, 47617), (92, 47446), (94, 47443), (105, 47392),

Gene: ArcherS7_25 Start: 8150, Stop: 8506, Start Num: 48

Candidate Starts for ArcherS7_25:

(Start: 48 @8150 has 173 MA's), (78, 8264), (89, 8357), (105, 8453),

Gene: Argie_45 Start: 40492, Stop: 40893, Start Num: 31

Candidate Starts for Argie_45:

(Start: 31 @40492 has 8 MA's), (Start: 38 @40507 has 3 MA's), (86, 40723), (87, 40729), (89, 40744), (99, 40804), (103, 40822), (104, 40825), (105, 40840), (114, 40879), (115, 40882),

Gene: Ashraf_57 Start: 48338, Stop: 47967, Start Num: 51

Candidate Starts for Ashraf_57:

(8, 48698), (12, 48539), (14, 48494), (17, 48464), (Start: 51 @48338 has 152 MA's), (Start: 52 @48335 has 94 MA's), (64, 48296), (69, 48278), (76, 48224), (77, 48215), (92, 48053), (94, 48050), (105, 47999),

Gene: Asterius_24 Start: 8422, Stop: 8778, Start Num: 48
Candidate Starts for Asterius_24:
(Start: 48 @8422 has 173 MA's), (78, 8536), (89, 8629), (105, 8725),

Gene: Astraea_27 Start: 8327, Stop: 8683, Start Num: 48
Candidate Starts for Astraea_27:
(Start: 48 @8327 has 173 MA's), (89, 8534), (105, 8630),

Gene: Atlantean_26 Start: 8154, Stop: 8510, Start Num: 48
Candidate Starts for Atlantean_26:
(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Audrick_28 Start: 8133, Stop: 8489, Start Num: 48
Candidate Starts for Audrick_28:
(Start: 48 @8133 has 173 MA's), (78, 8247), (89, 8340), (105, 8436),

Gene: Ava3_27 Start: 8699, Stop: 9055, Start Num: 48
Candidate Starts for Ava3_27:
(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Babyland_25 Start: 7595, Stop: 7951, Start Num: 48
Candidate Starts for Babyland_25:
(Start: 48 @7595 has 173 MA's), (89, 7802), (105, 7898),

Gene: BackyardAgain_23 Start: 7579, Stop: 7935, Start Num: 48
Candidate Starts for BackyardAgain_23:
(Start: 48 @7579 has 173 MA's), (78, 7693), (89, 7786), (105, 7882),

Gene: BadAgartude_27 Start: 8789, Stop: 9145, Start Num: 48
Candidate Starts for BadAgartude_27:
(Start: 48 @8789 has 173 MA's), (89, 8996), (105, 9092),

Gene: Badfish_57 Start: 48880, Stop: 48512, Start Num: 52
Candidate Starts for Badfish_57:
(12, 49084), (14, 49039), (17, 49009), (Start: 51 @48883 has 152 MA's), (Start: 52 @48880 has 94 MA's), (64, 48841), (77, 48760), (92, 48598), (94, 48595), (105, 48544),

Gene: BananaFence_27 Start: 8586, Stop: 8942, Start Num: 48
Candidate Starts for BananaFence_27:
(Start: 48 @8586 has 173 MA's), (89, 8793), (105, 8889),

Gene: Bangla1971_25 Start: 8150, Stop: 8506, Start Num: 48
Candidate Starts for Bangla1971_25:
(Start: 48 @8150 has 173 MA's), (78, 8264), (89, 8357), (105, 8453),

Gene: Banjo_55 Start: 48330, Stop: 47959, Start Num: 51
Candidate Starts for Banjo_55:
(12, 48531), (14, 48486), (17, 48456), (Start: 51 @48330 has 152 MA's), (Start: 52 @48327 has 94 MA's), (64, 48288), (76, 48216), (92, 48045), (94, 48042), (105, 47991),

Gene: Basato_56 Start: 48605, Stop: 48234, Start Num: 51

Candidate Starts for Basato_56:

(12, 48806), (14, 48761), (17, 48731), (33, 48644), (Start: 51 @48605 has 152 MA's), (Start: 52 @48602 has 94 MA's), (64, 48563), (77, 48482), (92, 48320), (94, 48317), (105, 48266),

Gene: Basquiat_25 Start: 7576, Stop: 7932, Start Num: 48

Candidate Starts for Basquiat_25:

(Start: 48 @7576 has 173 MA's), (89, 7783), (105, 7879),

Gene: BatteryCK_56 Start: 48278, Stop: 47907, Start Num: 51

Candidate Starts for BatteryCK_56:

(8, 48638), (12, 48479), (14, 48434), (17, 48404), (Start: 51 @48278 has 152 MA's), (Start: 52 @48275 has 94 MA's), (64, 48236), (69, 48218), (76, 48164), (77, 48155), (92, 47993), (94, 47990), (105, 47939),

Gene: Beaglebox_56 Start: 48433, Stop: 48065, Start Num: 52

Candidate Starts for Beaglebox_56:

(12, 48637), (14, 48592), (17, 48562), (Start: 51 @48436 has 152 MA's), (Start: 52 @48433 has 94 MA's), (64, 48394), (77, 48313), (92, 48151), (94, 48148), (105, 48097),

Gene: BeanWater_22 Start: 8264, Stop: 8620, Start Num: 48

Candidate Starts for BeanWater_22:

(Start: 48 @8264 has 173 MA's), (78, 8378), (89, 8471), (105, 8567),

Gene: Beckerton_70 Start: 52660, Stop: 53028, Start Num: 48

Candidate Starts for Beckerton_70:

(Start: 48 @52660 has 173 MA's), (60, 52687), (64, 52699), (74, 52747), (75, 52762), (92, 52924), (104, 52960), (106, 52978),

Gene: BigCity_30 Start: 9676, Stop: 10035, Start Num: 48

Candidate Starts for BigCity_30:

(Start: 48 @9676 has 173 MA's), (78, 9790), (89, 9883), (105, 9982),

Gene: Bigswole_32 Start: 10214, Stop: 10570, Start Num: 48

Candidate Starts for Bigswole_32:

(Start: 48 @10214 has 173 MA's), (78, 10328), (89, 10421), (105, 10517),

Gene: Bipolarisk_25 Start: 8416, Stop: 8772, Start Num: 48

Candidate Starts for Bipolarisk_25:

(Start: 48 @8416 has 173 MA's), (78, 8530), (89, 8623), (105, 8719),

Gene: Bishoperium_56 Start: 48869, Stop: 48498, Start Num: 51

Candidate Starts for Bishoperium_56:

(12, 49070), (14, 49025), (17, 48995), (Start: 51 @48869 has 152 MA's), (Start: 52 @48866 has 94 MA's), (64, 48827), (77, 48746), (92, 48584), (94, 48581), (105, 48530),

Gene: BlackStallion_57 Start: 48331, Stop: 47960, Start Num: 51

Candidate Starts for BlackStallion_57:

(12, 48532), (14, 48487), (17, 48457), (Start: 51 @48331 has 152 MA's), (Start: 52 @48328 has 94 MA's), (64, 48289), (77, 48208), (92, 48046), (94, 48043), (105, 47992),

Gene: Blackbrain_24 Start: 7392, Stop: 7748, Start Num: 48

Candidate Starts for Blackbrain_24:

(Start: 48 @7392 has 173 MA's), (89, 7599), (105, 7695),

Gene: Blubba_19 Start: 6880, Stop: 7236, Start Num: 48

Candidate Starts for Blubba_19:

(Start: 48 @6880 has 173 MA's), (78, 6994), (89, 7087), (105, 7183),

Gene: BlueHusk_57 Start: 48153, Stop: 47782, Start Num: 51

Candidate Starts for BlueHusk_57:

(12, 48354), (14, 48309), (17, 48279), (33, 48192), (Start: 51 @48153 has 152 MA's), (Start: 52 @48150 has 94 MA's), (64, 48111), (77, 48030), (92, 47868), (94, 47865), (105, 47814),

Gene: Bluephacebaby_56 Start: 48872, Stop: 48501, Start Num: 51

Candidate Starts for Bluephacebaby_56:

(12, 49073), (14, 49028), (17, 48998), (Start: 51 @48872 has 152 MA's), (Start: 52 @48869 has 94 MA's), (64, 48830), (77, 48749), (92, 48587), (94, 48584), (105, 48533),

Gene: BobSwaget_38 Start: 27978, Stop: 28349, Start Num: 56

Candidate Starts for BobSwaget_38:

(Start: 56 @27978 has 3 MA's), (80, 28095), (89, 28170), (92, 28236), (104, 28272), (110, 28311), (113, 28323), (115, 28329),

Gene: Boehler_55 Start: 48311, Stop: 47943, Start Num: 52

Candidate Starts for Boehler_55:

(9, 48659), (12, 48515), (14, 48470), (17, 48440), (33, 48353), (Start: 51 @48314 has 152 MA's), (Start: 52 @48311 has 94 MA's), (77, 48191), (92, 48029), (94, 48026), (105, 47975),

Gene: Bonray_26 Start: 8690, Stop: 9046, Start Num: 48

Candidate Starts for Bonray_26:

(Start: 48 @8690 has 173 MA's), (78, 8804), (89, 8897), (105, 8993),

Gene: BoostSeason_40 Start: 31401, Stop: 31018, Start Num: 37

Candidate Starts for BoostSeason_40:

(35, 31404), (Start: 37 @31401 has 9 MA's), (63, 31341), (75, 31278), (82, 31227), (86, 31191), (89, 31170), (95, 31098), (105, 31053),

Gene: Bread_27 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for Bread_27:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Breeniome_26 Start: 7573, Stop: 7929, Start Num: 48

Candidate Starts for Breeniome_26:

(Start: 48 @7573 has 173 MA's), (78, 7687), (89, 7780), (105, 7876),

Gene: Brilliant_58 Start: 48872, Stop: 48501, Start Num: 51

Candidate Starts for Brilliant_58:

(8, 49232), (12, 49073), (14, 49028), (17, 48998), (Start: 51 @48872 has 152 MA's), (Start: 52 @48869 has 94 MA's), (64, 48830), (77, 48749), (92, 48587), (94, 48584), (105, 48533),

Gene: Buckeye_55 Start: 48383, Stop: 48012, Start Num: 51

Candidate Starts for Buckeye_55:

(12, 48584), (14, 48539), (17, 48509), (Start: 51 @48383 has 152 MA's), (Start: 52 @48380 has 94 MA's), (64, 48341), (77, 48260), (92, 48098), (94, 48095), (105, 48044),

Gene: Bugsy_38 Start: 27869, Stop: 28264, Start Num: 45
Candidate Starts for Bugsy_38:
(Start: 45 @27869 has 40 MA's), (91, 28127), (92, 28157), (104, 28193),

Gene: Burr_56 Start: 48344, Stop: 47976, Start Num: 52
Candidate Starts for Burr_56:
(12, 48548), (14, 48503), (17, 48473), (Start: 51 @48347 has 152 MA's), (Start: 52 @48344 has 94 MA's), (64, 48305), (77, 48224), (92, 48062), (94, 48059), (105, 48008),

Gene: Burrough_26 Start: 8416, Stop: 8772, Start Num: 48
Candidate Starts for Burrough_26:
(Start: 48 @8416 has 173 MA's), (78, 8530), (89, 8623), (105, 8719),

Gene: Bxz1_27 Start: 9159, Stop: 9515, Start Num: 48
Candidate Starts for Bxz1_27:
(Start: 48 @9159 has 173 MA's), (78, 9273), (89, 9366), (105, 9462),

Gene: Cactojaque_23 Start: 7281, Stop: 7637, Start Num: 48
Candidate Starts for Cactojaque_23:
(Start: 48 @7281 has 173 MA's), (89, 7488), (105, 7584),

Gene: Cali_26 Start: 9723, Stop: 10079, Start Num: 48
Candidate Starts for Cali_26:
(Start: 48 @9723 has 173 MA's), (89, 9930), (105, 10026),

Gene: CamL_56 Start: 48637, Stop: 48266, Start Num: 51
Candidate Starts for CamL_56:
(12, 48838), (14, 48793), (17, 48763), (Start: 51 @48637 has 152 MA's), (Start: 52 @48634 has 94 MA's), (64, 48595), (76, 48523), (92, 48352), (94, 48349), (105, 48298),

Gene: CampRoach_57 Start: 48777, Stop: 48406, Start Num: 51
Candidate Starts for CampRoach_57:
(12, 48978), (14, 48933), (17, 48903), (Start: 51 @48777 has 152 MA's), (Start: 52 @48774 has 94 MA's), (64, 48735), (77, 48654), (92, 48492), (94, 48489), (105, 48438),

Gene: Candle_55 Start: 42652, Stop: 43122, Start Num: 18
Candidate Starts for Candle_55:
(Start: 18 @42652 has 5 MA's), (Start: 26 @42691 has 1 MA's), (Start: 36 @42721 has 1 MA's), (Start: 43 @42733 has 2 MA's), (Start: 48 @42745 has 173 MA's), (54, 42760), (Start: 56 @42766 has 3 MA's), (72, 42817), (85, 42931), (89, 42961), (103, 43051), (104, 43054),

Gene: Cane17_19 Start: 6752, Stop: 7108, Start Num: 48
Candidate Starts for Cane17_19:
(Start: 48 @6752 has 173 MA's), (78, 6866), (89, 6959), (105, 7055),

Gene: Cannibal_56 Start: 48620, Stop: 48249, Start Num: 51
Candidate Starts for Cannibal_56:
(12, 48821), (14, 48776), (17, 48746), (33, 48659), (Start: 51 @48620 has 152 MA's), (Start: 52 @48617 has 94 MA's), (64, 48578), (76, 48506), (92, 48335), (94, 48332), (105, 48281),

Gene: Capablanca_28 Start: 9279, Stop: 9635, Start Num: 48
Candidate Starts for Capablanca_28:

(Start: 48 @9279 has 173 MA's), (78, 9393), (89, 9486), (105, 9582),

Gene: Caravan_24 Start: 7690, Stop: 8046, Start Num: 48

Candidate Starts for Caravan_24:

(Start: 48 @7690 has 173 MA's), (78, 7804), (89, 7897), (105, 7993),

Gene: Carthage_54 Start: 47615, Stop: 47244, Start Num: 51

Candidate Starts for Carthage_54:

(12, 47816), (14, 47771), (17, 47741), (33, 47654), (Start: 51 @47615 has 152 MA's), (Start: 52 @47612 has 94 MA's), (64, 47573), (69, 47555), (77, 47492), (92, 47330), (94, 47327), (105, 47276),

Gene: Catera_24 Start: 7577, Stop: 7933, Start Num: 48

Candidate Starts for Catera_24:

(Start: 48 @7577 has 173 MA's), (78, 7691), (89, 7784), (105, 7880),

Gene: Cborch11_73 Start: 52182, Stop: 52571, Start Num: 48

Candidate Starts for Cborch11_73:

(Start: 48 @52182 has 173 MA's), (60, 52209), (64, 52221), (73, 52266), (74, 52269), (78, 52299), (92, 52449), (108, 52521),

Gene: Centaur_37 Start: 27702, Stop: 28097, Start Num: 45

Candidate Starts for Centaur_37:

(Start: 45 @27702 has 40 MA's), (91, 27960), (92, 27990), (104, 28026),

Gene: Cepens_44 Start: 40207, Stop: 40608, Start Num: 31

Candidate Starts for Cepens_44:

(Start: 31 @40207 has 8 MA's), (Start: 38 @40222 has 3 MA's), (86, 40438), (87, 40444), (89, 40459), (99, 40519), (103, 40537), (104, 40540), (105, 40555), (114, 40594), (115, 40597),

Gene: Chaelin_57 Start: 48867, Stop: 48496, Start Num: 51

Candidate Starts for Chaelin_57:

(12, 49068), (14, 49023), (17, 48993), (Start: 51 @48867 has 152 MA's), (Start: 52 @48864 has 94 MA's), (64, 48825), (77, 48744), (92, 48582), (94, 48579), (105, 48528),

Gene: Chah_58 Start: 48321, Stop: 47953, Start Num: 52

Candidate Starts for Chah_58:

(12, 48525), (14, 48480), (17, 48450), (Start: 51 @48324 has 152 MA's), (Start: 52 @48321 has 94 MA's), (64, 48282), (77, 48201), (92, 48039), (94, 48036), (105, 47985),

Gene: Chargie21_25 Start: 7576, Stop: 7932, Start Num: 48

Candidate Starts for Chargie21_25:

(Start: 48 @7576 has 173 MA's), (89, 7783), (105, 7879),

Gene: Charles1_57 Start: 48633, Stop: 48262, Start Num: 51

Candidate Starts for Charles1_57:

(8, 48993), (12, 48834), (14, 48789), (17, 48759), (33, 48672), (Start: 51 @48633 has 152 MA's), (Start: 52 @48630 has 94 MA's), (77, 48510), (92, 48348), (94, 48345), (105, 48294),

Gene: CharlieB_26 Start: 7730, Stop: 8086, Start Num: 48

Candidate Starts for CharlieB_26:

(Start: 48 @7730 has 173 MA's), (89, 7937), (105, 8033),

Gene: CharlieGBrown_56 Start: 48220, Stop: 47852, Start Num: 52

Candidate Starts for CharlieGBrown_56:

(9, 48568), (12, 48424), (14, 48379), (17, 48349), (Start: 51 @48223 has 152 MA's), (Start: 52 @48220 has 94 MA's), (64, 48181), (69, 48163), (76, 48109), (77, 48100), (92, 47938), (94, 47935), (105, 47884),

Gene: ChaylaJr_25 Start: 7663, Stop: 8019, Start Num: 48

Candidate Starts for ChaylaJr_25:

(Start: 48 @7663 has 173 MA's), (89, 7870), (105, 7966),

Gene: CheetO_55 Start: 48353, Stop: 47982, Start Num: 51

Candidate Starts for CheetO_55:

(12, 48554), (14, 48509), (17, 48479), (33, 48392), (Start: 51 @48353 has 152 MA's), (Start: 52 @48350 has 94 MA's), (64, 48311), (77, 48230), (92, 48068), (94, 48065), (105, 48014),

Gene: Cher_56 Start: 48886, Stop: 48518, Start Num: 52

Candidate Starts for Cher_56:

(12, 49090), (14, 49045), (17, 49015), (Start: 51 @48889 has 152 MA's), (Start: 52 @48886 has 94 MA's), (64, 48847), (77, 48766), (92, 48604), (94, 48601), (105, 48550),

Gene: ChickenPhender_25 Start: 7621, Stop: 7977, Start Num: 48

Candidate Starts for ChickenPhender_25:

(Start: 48 @7621 has 173 MA's), (89, 7828), (105, 7924),

Gene: Childish_56 Start: 48899, Stop: 48528, Start Num: 51

Candidate Starts for Childish_56:

(12, 49100), (14, 49055), (17, 49025), (Start: 51 @48899 has 152 MA's), (Start: 52 @48896 has 94 MA's), (64, 48857), (76, 48785), (92, 48614), (94, 48611), (105, 48560),

Gene: Chill_58 Start: 42785, Stop: 43165, Start Num: 44

Candidate Starts for Chill_58:

(Start: 44 @42785 has 5 MA's), (59, 42818), (60, 42821), (61, 42824), (73, 42878), (74, 42881), (88, 43001), (105, 43112), (106, 43115),

Gene: ChipMunk_38 Start: 28998, Stop: 29381, Start Num: 45

Candidate Starts for ChipMunk_38:

(Start: 45 @28998 has 40 MA's), (74, 29082), (87, 29190), (91, 29241), (92, 29271), (113, 29358),

Gene: Chomp_24 Start: 8154, Stop: 8510, Start Num: 48

Candidate Starts for Chomp_24:

(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Chorkpop_56 Start: 48376, Stop: 48005, Start Num: 51

Candidate Starts for Chorkpop_56:

(12, 48577), (14, 48532), (17, 48502), (Start: 51 @48376 has 152 MA's), (Start: 52 @48373 has 94 MA's), (64, 48334), (76, 48262), (92, 48091), (94, 48088), (105, 48037),

Gene: Chunky_54 Start: 47683, Stop: 47312, Start Num: 51

Candidate Starts for Chunky_54:

(12, 47884), (14, 47839), (17, 47809), (33, 47722), (Start: 51 @47683 has 152 MA's), (Start: 52 @47680 has 94 MA's), (64, 47641), (77, 47560), (92, 47398), (94, 47395), (105, 47344),

Gene: Chute_56 Start: 48694, Stop: 48323, Start Num: 51

Candidate Starts for Chute_56:

(8, 49054), (12, 48895), (14, 48850), (17, 48820), (33, 48733), (Start: 51 @48694 has 152 MA's), (Start: 52 @48691 has 94 MA's), (77, 48571), (92, 48409), (94, 48406), (105, 48355),

Gene: CindyLou_26 Start: 8154, Stop: 8510, Start Num: 48

Candidate Starts for CindyLou_26:

(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Cobra_57 Start: 48665, Stop: 48297, Start Num: 52

Candidate Starts for Cobra_57:

(12, 48869), (14, 48824), (17, 48794), (Start: 51 @48668 has 152 MA's), (Start: 52 @48665 has 94 MA's), (64, 48626), (77, 48545), (92, 48383), (94, 48380), (105, 48329),

Gene: Colbert_54 Start: 47732, Stop: 47364, Start Num: 52

Candidate Starts for Colbert_54:

(12, 47936), (14, 47891), (17, 47861), (33, 47774), (Start: 51 @47735 has 152 MA's), (Start: 52 @47732 has 94 MA's), (64, 47693), (77, 47612), (92, 47450), (94, 47447), (105, 47396),

Gene: Coletti_56 Start: 48694, Stop: 48323, Start Num: 51

Candidate Starts for Coletti_56:

(8, 49054), (12, 48895), (14, 48850), (17, 48820), (33, 48733), (Start: 51 @48694 has 152 MA's), (Start: 52 @48691 has 94 MA's), (77, 48571), (92, 48409), (94, 48406), (105, 48355),

Gene: Colt_19 Start: 6758, Stop: 7114, Start Num: 48

Candidate Starts for Colt_19:

(Start: 48 @6758 has 173 MA's), (78, 6872), (89, 6965), (105, 7061),

Gene: Concombres_25 Start: 8646, Stop: 9002, Start Num: 48

Candidate Starts for Concombres_25:

(Start: 48 @8646 has 173 MA's), (78, 8760), (89, 8853), (105, 8949),

Gene: Cornobble_55 Start: 48290, Stop: 47919, Start Num: 51

Candidate Starts for Cornobble_55:

(12, 48491), (14, 48446), (17, 48416), (33, 48329), (Start: 51 @48290 has 152 MA's), (Start: 52 @48287 has 94 MA's), (64, 48248), (76, 48176), (92, 48005), (94, 48002), (105, 47951),

Gene: Cosmolli16_57 Start: 49079, Stop: 48708, Start Num: 51

Candidate Starts for Cosmolli16_57:

(12, 49280), (14, 49235), (17, 49205), (Start: 51 @49079 has 152 MA's), (Start: 52 @49076 has 94 MA's), (64, 49037), (76, 48965), (92, 48794), (94, 48791), (105, 48740),

Gene: Craff_59 Start: 49324, Stop: 48953, Start Num: 51

Candidate Starts for Craff_59:

(12, 49525), (14, 49480), (17, 49450), (Start: 51 @49324 has 152 MA's), (Start: 52 @49321 has 94 MA's), (64, 49282), (77, 49201), (92, 49039), (94, 49036), (105, 48985),

Gene: Crownjwl_56 Start: 48353, Stop: 47985, Start Num: 52

Candidate Starts for Crownjwl_56:

(12, 48557), (14, 48512), (17, 48482), (33, 48395), (Start: 51 @48356 has 152 MA's), (Start: 52 @48353 has 94 MA's), (64, 48314), (76, 48242), (77, 48233), (92, 48071), (94, 48068), (105, 48017),

Gene: Crucio_36 Start: 27264, Stop: 27647, Start Num: 45

Candidate Starts for Crucio_36:

(Start: 45 @27264 has 40 MA's), (74, 27348), (87, 27456), (91, 27507), (92, 27537), (113, 27624),

Gene: Cuke_52 Start: 36064, Stop: 36516, Start Num: 22

Candidate Starts for Cuke_52:

(Start: 22 @36064 has 1 MA's), (29, 36106), (40, 36133), (Start: 48 @36148 has 173 MA's), (61, 36181), (64, 36190), (71, 36217), (74, 36244), (79, 36277), (105, 36463), (110, 36487), (114, 36502),

Gene: D12_43 Start: 40755, Stop: 41156, Start Num: 31

Candidate Starts for D12_43:

(Start: 31 @40755 has 8 MA's), (Start: 38 @40770 has 3 MA's), (86, 40986), (87, 40992), (89, 41007), (99, 41067), (103, 41085), (104, 41088), (105, 41103), (114, 41142), (115, 41145),

Gene: DTDevon_27 Start: 9318, Stop: 9674, Start Num: 48

Candidate Starts for DTDevon_27:

(Start: 48 @9318 has 173 MA's), (78, 9432), (89, 9525), (105, 9621),

Gene: DaddyDaniels_58 Start: 48853, Stop: 48485, Start Num: 52

Candidate Starts for DaddyDaniels_58:

(8, 49216), (12, 49057), (14, 49012), (17, 48982), (Start: 51 @48856 has 152 MA's), (Start: 52 @48853 has 94 MA's), (64, 48814), (76, 48742), (92, 48571), (94, 48568), (105, 48517),

Gene: Daegal_45 Start: 33993, Stop: 33472, Start Num: 15

Candidate Starts for Daegal_45:

(Start: 15 @33993 has 4 MA's), (21, 33939), (Start: 28 @33900 has 15 MA's), (Start: 38 @33873 has 3 MA's), (Start: 56 @33831 has 3 MA's), (57, 33828), (65, 33807), (70, 33786), (74, 33756), (86, 33654), (104, 33540), (105, 33525), (106, 33522), (110, 33501), (116, 33480),

Gene: Daffodil_28 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for Daffodil_28:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Daffy_56 Start: 48362, Stop: 47991, Start Num: 51

Candidate Starts for Daffy_56:

(12, 48563), (14, 48518), (17, 48488), (Start: 51 @48362 has 152 MA's), (Start: 52 @48359 has 94 MA's), (64, 48320), (76, 48248), (92, 48077), (94, 48074), (105, 48023),

Gene: Daka_58 Start: 48633, Stop: 48265, Start Num: 52

Candidate Starts for Daka_58:

(12, 48837), (14, 48792), (17, 48762), (33, 48675), (Start: 51 @48636 has 152 MA's), (Start: 52 @48633 has 94 MA's), (64, 48594), (69, 48576), (77, 48513), (92, 48351), (94, 48348), (105, 48297),

Gene: Dalmatian_37 Start: 27632, Stop: 28015, Start Num: 45

Candidate Starts for Dalmatian_37:

(Start: 45 @27632 has 40 MA's), (74, 27716), (87, 27824), (91, 27875), (92, 27905), (113, 27992),

Gene: Damien_71 Start: 52144, Stop: 52533, Start Num: 48

Candidate Starts for Damien_71:

(Start: 48 @52144 has 173 MA's), (60, 52171), (62, 52177), (64, 52183), (73, 52228), (74, 52231), (78, 52261), (92, 52411), (108, 52483),

Gene: Dandelion_30 Start: 10013, Stop: 10369, Start Num: 48

Candidate Starts for Dandelion_30:

(Start: 48 @10013 has 173 MA's), (78, 10127), (89, 10220), (105, 10316),

Gene: Darko_25 Start: 8555, Stop: 8911, Start Num: 48
Candidate Starts for Darko_25:
(Start: 48 @8555 has 173 MA's), (89, 8762), (105, 8858),

Gene: DarthP_72 Start: 50015, Stop: 50398, Start Num: 30
Candidate Starts for DarthP_72:
(Start: 30 @50015 has 18 MA's), (32, 50021), (63, 50075), (80, 50162), (84, 50201), (89, 50237), (102, 50330), (104, 50339),

Gene: DarthPhader_38 Start: 29146, Stop: 29526, Start Num: 45
Candidate Starts for DarthPhader_38:
(Start: 45 @29146 has 40 MA's), (Start: 56 @29176 has 3 MA's), (92, 29419), (95, 29425),

Gene: Dati_56 Start: 48891, Stop: 48523, Start Num: 52
Candidate Starts for Dati_56:
(12, 49095), (14, 49050), (17, 49020), (Start: 51 @48894 has 152 MA's), (Start: 52 @48891 has 94 MA's), (64, 48852), (77, 48771), (92, 48609), (94, 48606), (105, 48555),

Gene: DeepSoil15_43 Start: 33409, Stop: 32891, Start Num: 15
Candidate Starts for DeepSoil15_43:
(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: DelRivs_55 Start: 48336, Stop: 47968, Start Num: 52
Candidate Starts for DelRivs_55:
(8, 48699), (12, 48540), (14, 48495), (17, 48465), (Start: 51 @48339 has 152 MA's), (Start: 52 @48336 has 94 MA's), (64, 48297), (77, 48216), (92, 48054), (94, 48051), (105, 48000),

Gene: Delilah_26 Start: 8699, Stop: 9055, Start Num: 48
Candidate Starts for Delilah_26:
(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Delylah_27 Start: 8482, Stop: 8838, Start Num: 48
Candidate Starts for Delylah_27:
(Start: 48 @8482 has 173 MA's), (89, 8689), (105, 8785),

Gene: Derek_27 Start: 8111, Stop: 8467, Start Num: 48
Candidate Starts for Derek_27:
(Start: 48 @8111 has 173 MA's), (89, 8318), (105, 8414),

Gene: Derpp_55 Start: 48209, Stop: 47841, Start Num: 52
Candidate Starts for Derpp_55:
(8, 48572), (12, 48413), (14, 48368), (17, 48338), (Start: 51 @48212 has 152 MA's), (Start: 52 @48209 has 94 MA's), (64, 48170), (69, 48152), (76, 48098), (77, 48089), (92, 47927), (94, 47924), (105, 47873),

Gene: Dewey_41 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for Dewey_41:
(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: Dice_58 Start: 48303, Stop: 47932, Start Num: 51

Candidate Starts for Dice_58:

(12, 48504), (14, 48459), (17, 48429), (Start: 51 @48303 has 152 MA's), (Start: 52 @48300 has 94 MA's), (64, 48261), (77, 48180), (92, 48018), (94, 48015), (105, 47964),

Gene: Dietrick_21 Start: 7349, Stop: 7705, Start Num: 48

Candidate Starts for Dietrick_21:

(Start: 48 @7349 has 173 MA's), (89, 7556), (105, 7652),

Gene: Dingo_54 Start: 47659, Stop: 47291, Start Num: 52

Candidate Starts for Dingo_54:

(12, 47863), (14, 47818), (17, 47788), (33, 47701), (Start: 51 @47662 has 152 MA's), (Start: 52 @47659 has 94 MA's), (64, 47620), (77, 47539), (92, 47377), (94, 47374), (105, 47323),

Gene: Dione_54 Start: 48034, Stop: 47663, Start Num: 51

Candidate Starts for Dione_54:

(12, 48235), (14, 48190), (17, 48160), (33, 48073), (Start: 51 @48034 has 152 MA's), (Start: 52 @48031 has 94 MA's), (77, 47911), (92, 47749), (94, 47746), (105, 47695),

Gene: DirtJuice_57 Start: 48622, Stop: 48254, Start Num: 52

Candidate Starts for DirtJuice_57:

(12, 48826), (14, 48781), (17, 48751), (33, 48664), (Start: 51 @48625 has 152 MA's), (Start: 52 @48622 has 94 MA's), (64, 48583), (69, 48565), (77, 48502), (92, 48340), (94, 48337), (105, 48286),

Gene: DirtMonster_25 Start: 9243, Stop: 9599, Start Num: 48

Candidate Starts for DirtMonster_25:

(Start: 48 @9243 has 173 MA's), (78, 9357), (89, 9450), (105, 9546),

Gene: DismalFunk_39 Start: 31497, Stop: 31114, Start Num: 37

Candidate Starts for DismalFunk_39:

(Start: 37 @31497 has 9 MA's), (63, 31437), (75, 31374), (82, 31323), (89, 31266), (95, 31194), (105, 31149), (106, 31146), (110, 31125),

Gene: DismalStressor_39 Start: 31497, Stop: 31114, Start Num: 37

Candidate Starts for DismalStressor_39:

(Start: 37 @31497 has 9 MA's), (63, 31437), (75, 31374), (82, 31323), (89, 31266), (95, 31194), (105, 31149), (106, 31146), (110, 31125),

Gene: Doddsville_56 Start: 48368, Stop: 47997, Start Num: 51

Candidate Starts for Doddsville_56:

(8, 48728), (12, 48569), (14, 48524), (17, 48494), (Start: 51 @48368 has 152 MA's), (Start: 52 @48365 has 94 MA's), (64, 48326), (69, 48308), (76, 48254), (92, 48083), (94, 48080), (105, 48029),

Gene: DoesntMatter_54 Start: 48324, Stop: 47956, Start Num: 52

Candidate Starts for DoesntMatter_54:

(12, 48528), (14, 48483), (17, 48453), (Start: 51 @48327 has 152 MA's), (Start: 52 @48324 has 94 MA's), (64, 48285), (77, 48204), (92, 48042), (94, 48039), (105, 47988),

Gene: DonSanchon_54 Start: 48059, Stop: 47688, Start Num: 51

Candidate Starts for DonSanchon_54:

(12, 48260), (14, 48215), (17, 48185), (Start: 51 @48059 has 152 MA's), (Start: 52 @48056 has 94 MA's), (64, 48017), (77, 47936), (92, 47774), (94, 47771), (105, 47720),

Gene: DrPhinkDaddy_26 Start: 8696, Stop: 9052, Start Num: 48
Candidate Starts for DrPhinkDaddy_26:
(Start: 48 @8696 has 173 MA's), (78, 8810), (89, 8903), (105, 8999),

Gene: Drake55_38 Start: 27765, Stop: 28160, Start Num: 45
Candidate Starts for Drake55_38:
(Start: 45 @27765 has 40 MA's), (91, 28023), (92, 28053), (104, 28089),

Gene: Drazdys_26 Start: 8484, Stop: 8840, Start Num: 48
Candidate Starts for Drazdys_26:
(Start: 48 @8484 has 173 MA's), (89, 8691), (105, 8787),

Gene: DuchessDung_57 Start: 47883, Stop: 47515, Start Num: 52
Candidate Starts for DuchessDung_57:
(12, 48087), (14, 48042), (17, 48012), (33, 47925), (Start: 51 @47886 has 152 MA's), (Start: 52 @47883 has 94 MA's), (64, 47844), (76, 47772), (92, 47601), (94, 47598), (105, 47547),

Gene: DudeLittle_35 Start: 27298, Stop: 27681, Start Num: 45
Candidate Starts for DudeLittle_35:
(Start: 45 @27298 has 40 MA's), (74, 27382), (87, 27490), (91, 27541), (92, 27571), (104, 27607), (113, 27658),

Gene: Duggie_56 Start: 48362, Stop: 47994, Start Num: 52
Candidate Starts for Duggie_56:
(8, 48725), (12, 48566), (14, 48521), (17, 48491), (Start: 51 @48365 has 152 MA's), (Start: 52 @48362 has 94 MA's), (64, 48323), (69, 48305), (76, 48251), (92, 48080), (94, 48077), (105, 48026),

Gene: Durga_58 Start: 48804, Stop: 48433, Start Num: 51
Candidate Starts for Durga_58:
(8, 49164), (12, 49005), (14, 48960), (17, 48930), (Start: 51 @48804 has 152 MA's), (Start: 52 @48801 has 94 MA's), (64, 48762), (69, 48744), (76, 48690), (77, 48681), (92, 48519), (94, 48516), (105, 48465),

Gene: ET08_21 Start: 8158, Stop: 8514, Start Num: 48
Candidate Starts for ET08_21:
(Start: 48 @8158 has 173 MA's), (89, 8365), (105, 8461),

Gene: EastView9101_55 Start: 48434, Stop: 48039, Start Num: 45
Candidate Starts for EastView9101_55:
(4, 48830), (5, 48785), (6, 48782), (35, 48452), (Start: 45 @48434 has 40 MA's), (65, 48380), (107, 48083), (114, 48050),

Gene: EasyJones_25 Start: 7323, Stop: 7679, Start Num: 48
Candidate Starts for EasyJones_25:
(Start: 48 @7323 has 173 MA's), (89, 7530), (105, 7626),

Gene: EggyFarm_30 Start: 9676, Stop: 10035, Start Num: 48
Candidate Starts for EggyFarm_30:
(Start: 48 @9676 has 173 MA's), (78, 9790), (89, 9883), (105, 9982),

Gene: Ein37_43 Start: 33292, Stop: 32891, Start Num: 38
Candidate Starts for Ein37_43:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's),
(Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104,
32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: Ekdilam_69 Start: 50223, Stop: 50606, Start Num: 30

Candidate Starts for Ekdilam_69:

(Start: 30 @50223 has 18 MA's), (32, 50229), (49, 50256), (67, 50298), (84, 50409), (91, 50481), (96,
50520), (102, 50538), (104, 50547),

Gene: Ellie_70 Start: 49459, Stop: 49842, Start Num: 30

Candidate Starts for Ellie_70:

(Start: 30 @49459 has 18 MA's), (32, 49465), (63, 49519), (80, 49606), (82, 49624), (84, 49645), (91,
49717), (102, 49774), (104, 49783),

Gene: EmToTheThree_29 Start: 10113, Stop: 10469, Start Num: 48

Candidate Starts for EmToTheThree_29:

(Start: 48 @10113 has 173 MA's), (89, 10320), (105, 10416),

Gene: Emiris_58 Start: 48772, Stop: 48401, Start Num: 51

Candidate Starts for Emiris_58:

(8, 49132), (12, 48973), (14, 48928), (17, 48898), (Start: 51 @48772 has 152 MA's), (Start: 52
@48769 has 94 MA's), (64, 48730), (69, 48712), (76, 48658), (77, 48649), (92, 48487), (94, 48484),
(105, 48433),

Gene: EmmaElysia_24 Start: 7341, Stop: 7697, Start Num: 48

Candidate Starts for EmmaElysia_24:

(Start: 48 @7341 has 173 MA's), (89, 7548), (105, 7644),

Gene: EmpTee_55 Start: 48340, Stop: 47969, Start Num: 51

Candidate Starts for EmpTee_55:

(9, 48685), (12, 48541), (14, 48496), (17, 48466), (33, 48379), (Start: 51 @48340 has 152 MA's),
(Start: 52 @48337 has 94 MA's), (77, 48217), (92, 48055), (94, 48052), (105, 48001),

Gene: Equemioh13_37 Start: 27705, Stop: 28100, Start Num: 45

Candidate Starts for Equemioh13_37:

(Start: 45 @27705 has 40 MA's), (91, 27963), (92, 27993), (104, 28029),

Gene: Erdmann_27 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for Erdmann_27:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Eremos_55 Start: 48330, Stop: 47962, Start Num: 52

Candidate Starts for Eremos_55:

(12, 48534), (14, 48489), (17, 48459), (33, 48372), (Start: 51 @48333 has 152 MA's), (Start: 52
@48330 has 94 MA's), (64, 48291), (76, 48219), (77, 48210), (92, 48048), (94, 48045), (105, 47994),

Gene: Erk16_55 Start: 42824, Stop: 43204, Start Num: 44

Candidate Starts for Erk16_55:

(Start: 44 @42824 has 5 MA's), (59, 42857), (60, 42860), (61, 42863), (73, 42917), (74, 42920), (88,
43040), (105, 43151), (106, 43154),

Gene: ErnieJ_27 Start: 8522, Stop: 8878, Start Num: 48

Candidate Starts for ErnieJ_27:

(Start: 48 @8522 has 173 MA's), (89, 8729), (105, 8825),

Gene: Essence_25 Start: 7876, Stop: 8232, Start Num: 48

Candidate Starts for Essence_25:

(Start: 48 @7876 has 173 MA's), (78, 7990), (89, 8083), (105, 8179),

Gene: Etaye_56 Start: 49163, Stop: 48792, Start Num: 51

Candidate Starts for Etaye_56:

(12, 49364), (14, 49319), (17, 49289), (Start: 51 @49163 has 152 MA's), (Start: 52 @49160 has 94 MA's), (64, 49121), (77, 49040), (92, 48878), (94, 48875), (105, 48824),

Gene: Eugenia_56 Start: 48728, Stop: 48357, Start Num: 51

Candidate Starts for Eugenia_56:

(12, 48929), (14, 48884), (17, 48854), (Start: 51 @48728 has 152 MA's), (Start: 52 @48725 has 94 MA's), (64, 48686), (77, 48605), (92, 48443), (94, 48440), (105, 48389),

Gene: Evanesce_42 Start: 33316, Stop: 32891, Start Num: 28

Candidate Starts for Evanesce_42:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: EvilGenius_38 Start: 29002, Stop: 29385, Start Num: 45

Candidate Starts for EvilGenius_38:

(Start: 45 @29002 has 40 MA's), (74, 29086), (87, 29194), (91, 29245), (92, 29275), (113, 29362),

Gene: Ewok_26 Start: 8702, Stop: 9058, Start Num: 48

Candidate Starts for Ewok_26:

(1, 8036), (2, 8114), (11, 8468), (Start: 48 @8702 has 173 MA's), (78, 8816), (89, 8909), (105, 9005),

Gene: Fameo_36 Start: 27420, Stop: 27818, Start Num: 45

Candidate Starts for Fameo_36:

(Start: 45 @27420 has 40 MA's), (87, 27627), (95, 27717), (104, 27747), (110, 27786),

Gene: Fang_57 Start: 48315, Stop: 47947, Start Num: 52

Candidate Starts for Fang_57:

(12, 48519), (14, 48474), (17, 48444), (Start: 51 @48318 has 152 MA's), (Start: 52 @48315 has 94 MA's), (64, 48276), (77, 48195), (92, 48033), (94, 48030), (105, 47979),

Gene: Findley_39 Start: 31490, Stop: 31107, Start Num: 37

Candidate Starts for Findley_39:

(Start: 37 @31490 has 9 MA's), (75, 31367), (82, 31316), (89, 31259), (95, 31187), (105, 31142), (110, 31118),

Gene: FiringLine_36 Start: 27245, Stop: 27628, Start Num: 45

Candidate Starts for FiringLine_36:

(Start: 45 @27245 has 40 MA's), (74, 27329), (87, 27437), (91, 27488), (92, 27518), (113, 27605),

Gene: Flabslab_27 Start: 8632, Stop: 8988, Start Num: 48

Candidate Starts for Flabslab_27:

(Start: 48 @8632 has 173 MA's), (89, 8839), (105, 8935),

Gene: Flare16_36 Start: 27377, Stop: 27772, Start Num: 45

Candidate Starts for Flare16_36:

(Start: 45 @27377 has 40 MA's), (91, 27635), (92, 27665), (104, 27701),

Gene: Fludd_25 Start: 7577, Stop: 7933, Start Num: 48

Candidate Starts for Fludd_25:

(Start: 48 @7577 has 173 MA's), (89, 7784), (105, 7880),

Gene: FluffyNinja_57 Start: 48329, Stop: 47961, Start Num: 52

Candidate Starts for FluffyNinja_57:

(12, 48533), (14, 48488), (17, 48458), (Start: 51 @48332 has 152 MA's), (Start: 52 @48329 has 94 MA's), (64, 48290), (77, 48209), (92, 48047), (94, 48044), (105, 47993),

Gene: Forge_41 Start: 33316, Stop: 32891, Start Num: 28

Candidate Starts for Forge_41:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: Fowlmouth_56 Start: 39448, Stop: 39924, Start Num: 19

Candidate Starts for Fowlmouth_56:

(Start: 19 @39448 has 2 MA's), (29, 39502), (40, 39529), (Start: 43 @39532 has 2 MA's), (61, 39577), (64, 39586), (71, 39613), (74, 39640), (106, 39871),

Gene: FoxtrotP1_26 Start: 9027, Stop: 9383, Start Num: 48

Candidate Starts for FoxtrotP1_26:

(Start: 48 @9027 has 173 MA's), (78, 9141), (89, 9234), (105, 9330),

Gene: Fozzie_55 Start: 48666, Stop: 48295, Start Num: 51

Candidate Starts for Fozzie_55:

(12, 48867), (14, 48822), (17, 48792), (33, 48705), (Start: 51 @48666 has 152 MA's), (Start: 52 @48663 has 94 MA's), (64, 48624), (76, 48552), (92, 48381), (94, 48378), (105, 48327),

Gene: Frankicide_55 Start: 48361, Stop: 47993, Start Num: 52

Candidate Starts for Frankicide_55:

(12, 48565), (14, 48520), (17, 48490), (33, 48403), (Start: 51 @48364 has 152 MA's), (Start: 52 @48361 has 94 MA's), (64, 48322), (77, 48241), (92, 48079), (94, 48076), (105, 48025),

Gene: FrayBell_32 Start: 10270, Stop: 10626, Start Num: 48

Candidate Starts for FrayBell_32:

(Start: 48 @10270 has 173 MA's), (78, 10384), (89, 10477), (105, 10573),

Gene: Freya_54 Start: 48022, Stop: 47654, Start Num: 52

Candidate Starts for Freya_54:

(12, 48226), (14, 48181), (17, 48151), (Start: 51 @48025 has 152 MA's), (Start: 52 @48022 has 94 MA's), (64, 47983), (77, 47902), (92, 47740), (94, 47737), (105, 47686),

Gene: FriarPreacher_55 Start: 48209, Stop: 47838, Start Num: 51

Candidate Starts for FriarPreacher_55:

(9, 48554), (12, 48410), (14, 48365), (17, 48335), (Start: 51 @48209 has 152 MA's), (Start: 52 @48206 has 94 MA's), (64, 48167), (77, 48086), (92, 47924), (94, 47921), (105, 47870),

Gene: Fringe_60 Start: 49243, Stop: 48872, Start Num: 51

Candidate Starts for Fringe_60:

(12, 49444), (14, 49399), (17, 49369), (Start: 51 @49243 has 152 MA's), (Start: 52 @49240 has 94 MA's), (64, 49201), (77, 49120), (92, 48958), (94, 48955), (105, 48904),

Gene: FudgeTart_27 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for FudgeTart_27:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: FugateOSU_56 Start: 48867, Stop: 48499, Start Num: 52

Candidate Starts for FugateOSU_56:

(12, 49071), (14, 49026), (17, 48996), (Start: 51 @48870 has 152 MA's), (Start: 52 @48867 has 94 MA's), (64, 48828), (77, 48747), (92, 48585), (94, 48582), (105, 48531),

Gene: Gabriel_26 Start: 7573, Stop: 7929, Start Num: 48

Candidate Starts for Gabriel_26:

(Start: 48 @7573 has 173 MA's), (78, 7687), (89, 7780), (105, 7876),

Gene: Gamgam_26 Start: 8154, Stop: 8510, Start Num: 48

Candidate Starts for Gamgam_26:

(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Gancho_42 Start: 33132, Stop: 32614, Start Num: 15

Candidate Starts for Gancho_42:

(Start: 15 @33132 has 4 MA's), (21, 33078), (Start: 28 @33039 has 15 MA's), (Start: 38 @33015 has 3 MA's), (Start: 56 @32973 has 3 MA's), (57, 32970), (65, 32949), (70, 32928), (74, 32898), (86, 32796), (104, 32682), (105, 32667), (106, 32664), (110, 32643), (116, 32622),

Gene: Gareth_56 Start: 48864, Stop: 48493, Start Num: 51

Candidate Starts for Gareth_56:

(12, 49065), (14, 49020), (17, 48990), (Start: 51 @48864 has 152 MA's), (Start: 52 @48861 has 94 MA's), (64, 48822), (77, 48741), (92, 48579), (94, 48576), (105, 48525),

Gene: GaugeLDP_37 Start: 27993, Stop: 28460, Start Num: 24

Candidate Starts for GaugeLDP_37:

(Start: 24 @27993 has 1 MA's), (57, 28089), (64, 28107), (80, 28209), (87, 28269), (91, 28320), (92, 28350), (101, 28374), (113, 28437), (114, 28440), (115, 28443),

Gene: GeneCoco_56 Start: 48660, Stop: 48289, Start Num: 51

Candidate Starts for GeneCoco_56:

(8, 49020), (12, 48861), (14, 48816), (17, 48786), (Start: 51 @48660 has 152 MA's), (Start: 52 @48657 has 94 MA's), (64, 48618), (69, 48600), (76, 48546), (77, 48537), (92, 48375), (94, 48372), (105, 48321),

Gene: Georgie2_37 Start: 27290, Stop: 27673, Start Num: 45

Candidate Starts for Georgie2_37:

(Start: 45 @27290 has 40 MA's), (74, 27374), (87, 27482), (91, 27533), (92, 27563), (113, 27650),

Gene: Ghost_26 Start: 8154, Stop: 8510, Start Num: 48

Candidate Starts for Ghost_26:

(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Giles_41 Start: 33316, Stop: 32891, Start Num: 28

Candidate Starts for Giles_41:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: Giraffe_57 Start: 48860, Stop: 48489, Start Num: 51

Candidate Starts for Giraffe_57:

(12, 49061), (14, 49016), (17, 48986), (Start: 51 @48860 has 152 MA's), (Start: 52 @48857 has 94 MA's), (64, 48818), (76, 48746), (92, 48575), (94, 48572), (105, 48521),

Gene: Gizmo_28 Start: 8701, Stop: 9057, Start Num: 48

Candidate Starts for Gizmo_28:

(Start: 48 @8701 has 173 MA's), (89, 8908), (105, 9004),

Gene: GodPhather_45 Start: 40971, Stop: 41372, Start Num: 31

Candidate Starts for GodPhather_45:

(Start: 31 @40971 has 8 MA's), (Start: 38 @40986 has 3 MA's), (86, 41202), (87, 41208), (89, 41223), (99, 41283), (103, 41301), (104, 41304), (105, 41319), (114, 41358), (115, 41361),

Gene: Gophee_57 Start: 48604, Stop: 48233, Start Num: 51

Candidate Starts for Gophee_57:

(12, 48805), (14, 48760), (17, 48730), (Start: 51 @48604 has 152 MA's), (Start: 52 @48601 has 94 MA's), (64, 48562), (77, 48481), (92, 48319), (94, 48316), (105, 48265),

Gene: Grand2040_56 Start: 48851, Stop: 48483, Start Num: 52

Candidate Starts for Grand2040_56:

(12, 49055), (14, 49010), (17, 48980), (Start: 51 @48854 has 152 MA's), (Start: 52 @48851 has 94 MA's), (64, 48812), (76, 48740), (92, 48569), (94, 48566), (105, 48515),

Gene: Grasshills_30 Start: 9676, Stop: 10035, Start Num: 48

Candidate Starts for Grasshills_30:

(Start: 48 @9676 has 173 MA's), (78, 9790), (89, 9883), (105, 9982),

Gene: Gravaillia_42 Start: 33359, Stop: 32934, Start Num: 28

Candidate Starts for Gravaillia_42:

(Start: 15 @33452 has 4 MA's), (Start: 28 @33359 has 15 MA's), (Start: 38 @33335 has 3 MA's), (57, 33290), (65, 33269), (70, 33248), (86, 33116), (104, 33002), (105, 32987), (110, 32963),

Gene: Grungle_19 Start: 6273, Stop: 6629, Start Num: 48

Candidate Starts for Grungle_19:

(Start: 48 @6273 has 173 MA's), (89, 6480), (105, 6576),

Gene: Guwapp_26 Start: 8111, Stop: 8467, Start Num: 48

Candidate Starts for Guwapp_26:

(Start: 48 @8111 has 173 MA's), (78, 8225), (89, 8318), (105, 8414),

Gene: Gwilliam_58 Start: 49217, Stop: 48846, Start Num: 51

Candidate Starts for Gwilliam_58:

(12, 49418), (14, 49373), (17, 49343), (Start: 51 @49217 has 152 MA's), (Start: 52 @49214 has 94 MA's), (64, 49175), (77, 49094), (92, 48932), (94, 48929), (105, 48878),

Gene: Gyarad_0054 Start: 47699, Stop: 47328, Start Num: 51

Candidate Starts for Gyarad_0054:

(12, 47900), (14, 47855), (17, 47825), (33, 47738), (Start: 51 @47699 has 152 MA's), (Start: 52 @47696 has 94 MA's), (64, 47657), (77, 47576), (92, 47414), (94, 47411), (105, 47360),

Gene: HH92_42 Start: 33316, Stop: 32891, Start Num: 28

Candidate Starts for HH92_42:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: HSavage_55 Start: 48340, Stop: 47972, Start Num: 52

Candidate Starts for HSavage_55:

(12, 48544), (14, 48499), (17, 48469), (33, 48382), (Start: 51 @48343 has 152 MA's), (Start: 52 @48340 has 94 MA's), (64, 48301), (77, 48220), (92, 48058), (94, 48055), (105, 48004),

Gene: Hadrien_43 Start: 33316, Stop: 32891, Start Num: 28

Candidate Starts for Hadrien_43:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: Hail_41 Start: 33316, Stop: 32891, Start Num: 28

Candidate Starts for Hail_41:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: Haimas_55 Start: 48359, Stop: 47988, Start Num: 51

Candidate Starts for Haimas_55:

(12, 48560), (14, 48515), (17, 48485), (Start: 51 @48359 has 152 MA's), (Start: 52 @48356 has 94 MA's), (64, 48317), (77, 48236), (92, 48074), (94, 48071), (105, 48020),

Gene: Haleema_55 Start: 48358, Stop: 47987, Start Num: 51

Candidate Starts for Haleema_55:

(12, 48559), (14, 48514), (17, 48484), (Start: 51 @48358 has 152 MA's), (Start: 52 @48355 has 94 MA's), (64, 48316), (76, 48244), (92, 48073), (94, 48070), (105, 48019),

Gene: Hamish_55 Start: 48352, Stop: 47981, Start Num: 51

Candidate Starts for Hamish_55:

(8, 48712), (12, 48553), (14, 48508), (17, 48478), (33, 48391), (Start: 51 @48352 has 152 MA's), (Start: 52 @48349 has 94 MA's), (77, 48229), (92, 48067), (94, 48064), (105, 48013),

Gene: Hammy_72 Start: 50000, Stop: 50383, Start Num: 30

Candidate Starts for Hammy_72:

(Start: 30 @50000 has 18 MA's), (32, 50006), (63, 50060), (80, 50147), (84, 50186), (89, 50222), (102, 50315), (104, 50324),

Gene: HarryHoudini_38 Start: 27804, Stop: 28184, Start Num: 45

Candidate Starts for HarryHoudini_38:

(Start: 45 @27804 has 40 MA's), (92, 28077), (95, 28083), (104, 28113),

Gene: Hartsy_56 Start: 48689, Stop: 48321, Start Num: 52

Candidate Starts for Hartsy_56:

(12, 48893), (14, 48848), (17, 48818), (Start: 51 @48692 has 152 MA's), (Start: 52 @48689 has 94 MA's), (64, 48650), (77, 48569), (92, 48407), (94, 48404), (105, 48353),

Gene: Harvey_55 Start: 48389, Stop: 48018, Start Num: 51

Candidate Starts for Harvey_55:

(12, 48590), (14, 48545), (17, 48515), (Start: 51 @48389 has 152 MA's), (Start: 52 @48386 has 94 MA's), (64, 48347), (77, 48266), (92, 48104), (94, 48101), (105, 48050),

Gene: Held_56 Start: 48360, Stop: 47992, Start Num: 52

Candidate Starts for Held_56:

(12, 48564), (14, 48519), (17, 48489), (Start: 51 @48363 has 152 MA's), (Start: 52 @48360 has 94 MA's), (64, 48321), (76, 48249), (92, 48078), (94, 48075), (105, 48024),

Gene: HenryJackson_56 Start: 48885, Stop: 48517, Start Num: 52

Candidate Starts for HenryJackson_56:

(12, 49089), (14, 49044), (17, 49014), (Start: 51 @48888 has 152 MA's), (Start: 52 @48885 has 94 MA's), (64, 48846), (77, 48765), (92, 48603), (94, 48600), (105, 48549),

Gene: Hertubise_56 Start: 48655, Stop: 48284, Start Num: 51

Candidate Starts for Hertubise_56:

(12, 48856), (14, 48811), (17, 48781), (Start: 51 @48655 has 152 MA's), (Start: 52 @48652 has 94 MA's), (64, 48613), (77, 48532), (92, 48370), (94, 48367), (105, 48316),

Gene: Hetaeria_55 Start: 48387, Stop: 48019, Start Num: 52

Candidate Starts for Hetaeria_55:

(12, 48591), (14, 48546), (17, 48516), (33, 48429), (Start: 51 @48390 has 152 MA's), (Start: 52 @48387 has 94 MA's), (64, 48348), (76, 48276), (92, 48105), (94, 48102), (105, 48051),

Gene: HighStump_58 Start: 48866, Stop: 48495, Start Num: 51

Candidate Starts for HighStump_58:

(12, 49067), (14, 49022), (17, 48992), (Start: 51 @48866 has 152 MA's), (Start: 52 @48863 has 94 MA's), (64, 48824), (77, 48743), (92, 48581), (94, 48578), (105, 48527),

Gene: Hilltopfarm_107 Start: 65766, Stop: 66104, Start Num: 55

Candidate Starts for Hilltopfarm_107:

(Start: 55 @65766 has 2 MA's), (59, 65778), (70, 65817), (71, 65820), (90, 65976),

Gene: Hocus_56 Start: 48346, Stop: 47978, Start Num: 52

Candidate Starts for Hocus_56:

(8, 48709), (12, 48550), (14, 48505), (17, 48475), (Start: 51 @48349 has 152 MA's), (Start: 52 @48346 has 94 MA's), (64, 48307), (69, 48289), (76, 48235), (77, 48226), (92, 48064), (94, 48061), (105, 48010),

Gene: Horchata_55 Start: 48343, Stop: 47972, Start Num: 51

Candidate Starts for Horchata_55:

(12, 48544), (14, 48499), (17, 48469), (33, 48382), (Start: 51 @48343 has 152 MA's), (Start: 52 @48340 has 94 MA's), (64, 48301), (77, 48220), (92, 48058), (94, 48055), (105, 48004),

Gene: Hurricane_75 Start: 49943, Stop: 50338, Start Num: 30

Candidate Starts for Hurricane_75:

(Start: 30 @49943 has 18 MA's), (Start: 48 @49979 has 173 MA's), (63, 50015), (76, 50072), (89, 50177), (91, 50213), (104, 50279), (113, 50330),

Gene: HyRo_25 Start: 8889, Stop: 9245, Start Num: 48
Candidate Starts for HyRo_25:
(Start: 48 @8889 has 173 MA's), (89, 9096), (105, 9192),

Gene: I3_28 Start: 9266, Stop: 9622, Start Num: 48
Candidate Starts for I3_28:
(Start: 48 @9266 has 173 MA's), (78, 9380), (89, 9473), (105, 9569),

Gene: IkeLoa_22 Start: 8000, Stop: 8356, Start Num: 48
Candidate Starts for IkeLoa_22:
(Start: 48 @8000 has 173 MA's), (78, 8114), (89, 8207), (105, 8303),

Gene: ImtiyazSitla_57 Start: 48338, Stop: 47967, Start Num: 51
Candidate Starts for ImtiyazSitla_57:
(8, 48698), (12, 48539), (14, 48494), (17, 48464), (Start: 51 @48338 has 152 MA's), (Start: 52 @48335 has 94 MA's), (64, 48296), (69, 48278), (76, 48224), (77, 48215), (92, 48053), (94, 48050), (105, 47999),

Gene: Inchworm_58 Start: 48737, Stop: 48366, Start Num: 51
Candidate Starts for Inchworm_58:
(12, 48938), (14, 48893), (17, 48863), (Start: 51 @48737 has 152 MA's), (Start: 52 @48734 has 94 MA's), (64, 48695), (77, 48614), (92, 48452), (94, 48449), (105, 48398),

Gene: Indlulamithi_55 Start: 41815, Stop: 42213, Start Num: 38
Candidate Starts for Indlulamithi_55:
(34, 41809), (Start: 38 @41815 has 3 MA's), (68, 41890), (98, 42121),

Gene: InigoMontoya_27 Start: 8115, Stop: 8471, Start Num: 48
Candidate Starts for InigoMontoya_27:
(Start: 48 @8115 has 173 MA's), (78, 8229), (89, 8322), (105, 8418),

Gene: InterFolia_33 Start: 10805, Stop: 11161, Start Num: 48
Candidate Starts for InterFolia_33:
(Start: 48 @10805 has 173 MA's), (78, 10919), (89, 11012), (105, 11108),

Gene: Inverness_55 Start: 48352, Stop: 47981, Start Num: 51
Candidate Starts for Inverness_55:
(12, 48553), (14, 48508), (17, 48478), (33, 48391), (Start: 51 @48352 has 152 MA's), (Start: 52 @48349 has 94 MA's), (64, 48310), (76, 48238), (92, 48067), (94, 48064), (105, 48013),

Gene: Iota_23 Start: 8234, Stop: 8590, Start Num: 48
Candidate Starts for Iota_23:
(Start: 48 @8234 has 173 MA's), (89, 8441), (105, 8537),

Gene: Iridoclysis_57 Start: 48632, Stop: 48264, Start Num: 52
Candidate Starts for Iridoclysis_57:
(12, 48836), (14, 48791), (17, 48761), (Start: 51 @48635 has 152 MA's), (Start: 52 @48632 has 94 MA's), (64, 48593), (76, 48521), (92, 48350), (94, 48347), (105, 48296),

Gene: IsaacEli_57 Start: 48873, Stop: 48505, Start Num: 52
Candidate Starts for IsaacEli_57:
(12, 49077), (14, 49032), (17, 49002), (Start: 51 @48876 has 152 MA's), (Start: 52 @48873 has 94 MA's), (64, 48834), (77, 48753), (92, 48591), (94, 48588), (105, 48537),

Gene: Issimir_25 Start: 8694, Stop: 9050, Start Num: 48

Candidate Starts for Issimir_25:

(11, 8460), (Start: 48 @8694 has 173 MA's), (78, 8808), (89, 8901), (105, 8997),

Gene: Izajani_27 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for Izajani_27:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: JAMaL_49 Start: 48340, Stop: 47954, Start Num: 39

Candidate Starts for JAMaL_49:

(7, 48673), (Start: 39 @48340 has 1 MA's), (42, 48337), (60, 48301), (61, 48298), (92, 48055), (100, 48034), (107, 47998),

Gene: JDog_56 Start: 48892, Stop: 48521, Start Num: 51

Candidate Starts for JDog_56:

(12, 49093), (14, 49048), (17, 49018), (Start: 51 @48892 has 152 MA's), (Start: 52 @48889 has 94 MA's), (64, 48850), (77, 48769), (92, 48607), (94, 48604), (105, 48553),

Gene: JPickles_24 Start: 7351, Stop: 7707, Start Num: 48

Candidate Starts for JPickles_24:

(Start: 48 @7351 has 173 MA's), (89, 7558), (105, 7654),

Gene: JacAttac_57 Start: 48297, Stop: 47926, Start Num: 51

Candidate Starts for JacAttac_57:

(12, 48498), (14, 48453), (17, 48423), (Start: 51 @48297 has 152 MA's), (Start: 52 @48294 has 94 MA's), (64, 48255), (77, 48174), (92, 48012), (94, 48009), (105, 47958),

Gene: JakeO_56 Start: 48368, Stop: 47997, Start Num: 51

Candidate Starts for JakeO_56:

(12, 48569), (14, 48524), (17, 48494), (33, 48407), (Start: 51 @48368 has 152 MA's), (Start: 52 @48365 has 94 MA's), (64, 48326), (76, 48254), (92, 48083), (94, 48080), (105, 48029),

Gene: JangoPhett_56 Start: 48637, Stop: 48275, Start Num: 51

Candidate Starts for JangoPhett_56:

(8, 48997), (12, 48838), (14, 48793), (17, 48763), (Start: 51 @48637 has 152 MA's), (Start: 52 @48634 has 94 MA's), (64, 48595), (69, 48577), (76, 48532), (77, 48523), (92, 48361), (94, 48358), (105, 48307),

Gene: Janiyra_26 Start: 8133, Stop: 8489, Start Num: 48

Candidate Starts for Janiyra_26:

(Start: 48 @8133 has 173 MA's), (78, 8247), (89, 8340), (105, 8436),

Gene: JayJay_27 Start: 8667, Stop: 9023, Start Num: 48

Candidate Starts for JayJay_27:

(Start: 48 @8667 has 173 MA's), (78, 8781), (89, 8874), (105, 8970),

Gene: Jaygup_26 Start: 8150, Stop: 8506, Start Num: 48

Candidate Starts for Jaygup_26:

(Start: 48 @8150 has 173 MA's), (78, 8264), (89, 8357), (105, 8453),

Gene: Jedediah_26 Start: 7619, Stop: 7975, Start Num: 48

Candidate Starts for Jedediah_26:

(Start: 48 @7619 has 173 MA's), (78, 7733), (89, 7826), (105, 7922),

Gene: Jemmno_26 Start: 8154, Stop: 8510, Start Num: 48

Candidate Starts for Jemmno_26:

(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Jeon_44 Start: 40713, Stop: 41114, Start Num: 31

Candidate Starts for Jeon_44:

(Start: 31 @40713 has 8 MA's), (Start: 38 @40728 has 3 MA's), (86, 40944), (87, 40950), (89, 40965), (99, 41025), (103, 41043), (104, 41046), (105, 41061), (114, 41100), (115, 41103),

Gene: Jerm_37 Start: 27620, Stop: 28018, Start Num: 45

Candidate Starts for Jerm_37:

(Start: 45 @27620 has 40 MA's), (64, 27668), (92, 27911), (95, 27917), (104, 27947),

Gene: Jessibeth14_25 Start: 8422, Stop: 8778, Start Num: 48

Candidate Starts for Jessibeth14_25:

(Start: 48 @8422 has 173 MA's), (89, 8629), (105, 8725),

Gene: Jillium_56 Start: 48884, Stop: 48513, Start Num: 51

Candidate Starts for Jillium_56:

(12, 49085), (14, 49040), (17, 49010), (Start: 51 @48884 has 152 MA's), (Start: 52 @48881 has 94 MA's), (64, 48842), (77, 48761), (92, 48599), (94, 48596), (105, 48545),

Gene: Jiminy_56 Start: 48200, Stop: 47832, Start Num: 52

Candidate Starts for Jiminy_56:

(8, 48563), (12, 48404), (14, 48359), (17, 48329), (Start: 51 @48203 has 152 MA's), (Start: 52 @48200 has 94 MA's), (64, 48161), (69, 48143), (76, 48089), (92, 47918), (94, 47915), (105, 47864),

Gene: JoshKayV_37 Start: 27589, Stop: 27972, Start Num: 45

Candidate Starts for JoshKayV_37:

(Start: 45 @27589 has 40 MA's), (74, 27673), (87, 27781), (91, 27832), (92, 27862), (104, 27898), (110, 27937), (113, 27949),

Gene: JulietS_21 Start: 6576, Stop: 6932, Start Num: 48

Candidate Starts for JulietS_21:

(Start: 48 @6576 has 173 MA's), (89, 6783), (105, 6879),

Gene: JustHall_25 Start: 8599, Stop: 8955, Start Num: 48

Candidate Starts for JustHall_25:

(Start: 48 @8599 has 173 MA's), (78, 8713), (89, 8806), (105, 8902),

Gene: KLucky39_54 Start: 47698, Stop: 47327, Start Num: 51

Candidate Starts for KLucky39_54:

(12, 47899), (14, 47854), (17, 47824), (33, 47737), (Start: 51 @47698 has 152 MA's), (Start: 52 @47695 has 94 MA's), (64, 47656), (77, 47575), (92, 47413), (94, 47410), (105, 47359),

Gene: Kahve_56 Start: 48885, Stop: 48514, Start Num: 51

Candidate Starts for Kahve_56:

(12, 49086), (14, 49041), (17, 49011), (Start: 51 @48885 has 152 MA's), (Start: 52 @48882 has 94 MA's), (64, 48843), (77, 48762), (92, 48600), (94, 48597), (105, 48546),

Gene: Kailash_56 Start: 48722, Stop: 48351, Start Num: 51

Candidate Starts for Kailash_56:

(8, 49082), (12, 48923), (14, 48878), (17, 48848), (Start: 51 @48722 has 152 MA's), (Start: 52 @48719 has 94 MA's), (64, 48680), (69, 48662), (76, 48608), (77, 48599), (92, 48437), (94, 48434), (105, 48383),

Gene: Kamryn_26 Start: 8478, Stop: 8834, Start Num: 48

Candidate Starts for Kamryn_26:

(Start: 48 @8478 has 173 MA's), (78, 8592), (89, 8685), (105, 8781),

Gene: KandZ_55 Start: 42849, Stop: 43229, Start Num: 44

Candidate Starts for KandZ_55:

(Start: 44 @42849 has 5 MA's), (59, 42882), (60, 42885), (61, 42888), (73, 42942), (74, 42945), (88, 43065), (105, 43176), (106, 43179),

Gene: Katniss_57 Start: 48324, Stop: 47953, Start Num: 51

Candidate Starts for Katniss_57:

(12, 48525), (14, 48480), (17, 48450), (Start: 51 @48324 has 152 MA's), (Start: 52 @48321 has 94 MA's), (64, 48282), (77, 48201), (92, 48039), (94, 48036), (105, 47985),

Gene: Kboogie_26 Start: 7632, Stop: 7988, Start Num: 48

Candidate Starts for Kboogie_26:

(Start: 48 @7632 has 173 MA's), (89, 7839), (105, 7935),

Gene: Keitherie_57 Start: 48703, Stop: 48332, Start Num: 51

Candidate Starts for Keitherie_57:

(8, 49063), (12, 48904), (14, 48859), (17, 48829), (33, 48742), (Start: 51 @48703 has 152 MA's), (Start: 52 @48700 has 94 MA's), (77, 48580), (92, 48418), (94, 48415), (105, 48364),

Gene: Keshu_77 Start: 50098, Stop: 50493, Start Num: 30

Candidate Starts for Keshu_77:

(Start: 30 @50098 has 18 MA's), (Start: 48 @50134 has 173 MA's), (63, 50170), (87, 50317), (89, 50332), (91, 50368), (104, 50434), (113, 50485),

Gene: Khaleesi_25 Start: 8449, Stop: 8805, Start Num: 48

Candidate Starts for Khaleesi_25:

(Start: 48 @8449 has 173 MA's), (89, 8656), (105, 8752),

Gene: Kikipoo_57 Start: 48876, Stop: 48505, Start Num: 51

Candidate Starts for Kikipoo_57:

(12, 49077), (14, 49032), (17, 49002), (Start: 51 @48876 has 152 MA's), (Start: 52 @48873 has 94 MA's), (64, 48834), (77, 48753), (92, 48591), (94, 48588), (105, 48537),

Gene: Kimbrough_57 Start: 48885, Stop: 48514, Start Num: 51

Candidate Starts for Kimbrough_57:

(12, 49086), (14, 49041), (17, 49011), (Start: 51 @48885 has 152 MA's), (Start: 52 @48882 has 94 MA's), (64, 48843), (77, 48762), (92, 48600), (94, 48597), (105, 48546),

Gene: Kinbote_43 Start: 33316, Stop: 32891, Start Num: 28

Candidate Starts for Kinbote_43:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: KingCyrus_38 Start: 28997, Stop: 29380, Start Num: 45
Candidate Starts for KingCyrus_38:
(Start: 45 @28997 has 40 MA's), (74, 29081), (87, 29189), (91, 29240), (92, 29270), (113, 29357),

Gene: KingTut_48 Start: 44549, Stop: 44178, Start Num: 51
Candidate Starts for KingTut_48:
(12, 44750), (14, 44705), (17, 44675), (Start: 51 @44549 has 152 MA's), (Start: 52 @44546 has 94 MA's), (64, 44507), (77, 44426), (92, 44264), (94, 44261), (105, 44210),

Gene: KingVeVeVe_54 Start: 47652, Stop: 47281, Start Num: 51
Candidate Starts for KingVeVeVe_54:
(12, 47853), (14, 47808), (17, 47778), (33, 47691), (Start: 51 @47652 has 152 MA's), (Start: 52 @47649 has 94 MA's), (64, 47610), (77, 47529), (92, 47367), (94, 47364), (105, 47313),

Gene: KlimbOn_55 Start: 48341, Stop: 47973, Start Num: 52
Candidate Starts for KlimbOn_55:
(12, 48545), (14, 48500), (17, 48470), (33, 48383), (Start: 51 @48344 has 152 MA's), (Start: 52 @48341 has 94 MA's), (64, 48302), (77, 48221), (92, 48059), (94, 48056), (105, 48005),

Gene: Kloppinator_56 Start: 48181, Stop: 47813, Start Num: 52
Candidate Starts for Kloppinator_56:
(8, 48544), (12, 48385), (14, 48340), (17, 48310), (33, 48223), (Start: 51 @48184 has 152 MA's), (Start: 52 @48181 has 94 MA's), (77, 48061), (92, 47899), (94, 47896), (105, 47845),

Gene: Koguma_22 Start: 6919, Stop: 7275, Start Num: 48
Candidate Starts for Koguma_22:
(Start: 48 @6919 has 173 MA's), (89, 7126), (105, 7222),

Gene: Konstantine_75 Start: 52975, Stop: 53364, Start Num: 48
Candidate Starts for Konstantine_75:
(Start: 48 @52975 has 173 MA's), (60, 53002), (64, 53014), (73, 53059), (74, 53062), (78, 53092), (92, 53242), (108, 53314),

Gene: Krueger_78 Start: 49845, Stop: 50228, Start Num: 30
Candidate Starts for Krueger_78:
(Start: 30 @49845 has 18 MA's), (41, 49866), (63, 49905), (67, 49920), (80, 49992), (84, 50031), (89, 50067), (91, 50103), (104, 50169),

Gene: Kwadwo_55 Start: 48337, Stop: 47966, Start Num: 51
Candidate Starts for Kwadwo_55:
(12, 48538), (14, 48493), (17, 48463), (Start: 51 @48337 has 152 MA's), (Start: 52 @48334 has 94 MA's), (64, 48295), (76, 48223), (92, 48052), (94, 48049), (105, 47998),

Gene: Kwksand96_56 Start: 48215, Stop: 47847, Start Num: 52
Candidate Starts for Kwksand96_56:
(8, 48578), (12, 48419), (14, 48374), (17, 48344), (Start: 51 @48218 has 152 MA's), (Start: 52 @48215 has 94 MA's), (64, 48176), (69, 48158), (76, 48104), (77, 48095), (92, 47933), (94, 47930), (105, 47879),

Gene: LRRHood_23 Start: 8842, Stop: 9198, Start Num: 48
Candidate Starts for LRRHood_23:
(Start: 48 @8842 has 173 MA's), (89, 9049), (105, 9145),

Gene: Labeouficaum_56 Start: 48209, Stop: 47841, Start Num: 52

Candidate Starts for Labeouficaum_56:

(8, 48572), (12, 48413), (14, 48368), (17, 48338), (Start: 51 @48212 has 152 MA's), (Start: 52 @48209 has 94 MA's), (64, 48170), (69, 48152), (76, 48098), (77, 48089), (92, 47927), (94, 47924), (105, 47873),

Gene: LasagnaCat_57 Start: 48749, Stop: 48378, Start Num: 51

Candidate Starts for LasagnaCat_57:

(12, 48950), (14, 48905), (17, 48875), (Start: 51 @48749 has 152 MA's), (Start: 52 @48746 has 94 MA's), (64, 48707), (77, 48626), (92, 48464), (94, 48461), (105, 48410),

Gene: Lasso_56 Start: 48612, Stop: 48241, Start Num: 51

Candidate Starts for Lasso_56:

(12, 48813), (14, 48768), (17, 48738), (Start: 51 @48612 has 152 MA's), (Start: 52 @48609 has 94 MA's), (64, 48570), (76, 48498), (92, 48327), (94, 48324), (105, 48273),

Gene: Latch_26 Start: 8154, Stop: 8510, Start Num: 48

Candidate Starts for Latch_26:

(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Lee7_25 Start: 8696, Stop: 9052, Start Num: 48

Candidate Starts for Lee7_25:

(Start: 48 @8696 has 173 MA's), (89, 8903), (105, 8999),

Gene: LeeLot_56 Start: 48664, Stop: 48293, Start Num: 51

Candidate Starts for LeeLot_56:

(12, 48865), (14, 48820), (17, 48790), (Start: 51 @48664 has 152 MA's), (Start: 52 @48661 has 94 MA's), (64, 48622), (77, 48541), (92, 48379), (94, 48376), (105, 48325),

Gene: Lego3393_55 Start: 48876, Stop: 48505, Start Num: 51

Candidate Starts for Lego3393_55:

(12, 49077), (14, 49032), (17, 49002), (Start: 51 @48876 has 152 MA's), (Start: 52 @48873 has 94 MA's), (64, 48834), (77, 48753), (92, 48591), (94, 48588), (105, 48537),

Gene: Legolas_58 Start: 48763, Stop: 48392, Start Num: 51

Candidate Starts for Legolas_58:

(12, 48964), (14, 48919), (17, 48889), (Start: 51 @48763 has 152 MA's), (Start: 52 @48760 has 94 MA's), (64, 48721), (77, 48640), (92, 48478), (94, 48475), (105, 48424),

Gene: LeiMonet_58 Start: 48282, Stop: 47911, Start Num: 51

Candidate Starts for LeiMonet_58:

(12, 48483), (14, 48438), (17, 48408), (33, 48321), (Start: 51 @48282 has 152 MA's), (Start: 52 @48279 has 94 MA's), (64, 48240), (76, 48168), (92, 47997), (94, 47994), (105, 47943),

Gene: LemonSlice_57 Start: 48354, Stop: 47983, Start Num: 51

Candidate Starts for LemonSlice_57:

(12, 48555), (14, 48510), (17, 48480), (Start: 51 @48354 has 152 MA's), (Start: 52 @48351 has 94 MA's), (64, 48312), (69, 48294), (76, 48240), (77, 48231), (92, 48069), (94, 48066), (105, 48015),

Gene: Leviathan_37 Start: 27676, Stop: 28074, Start Num: 45

Candidate Starts for Leviathan_37:

(Start: 45 @27676 has 40 MA's), (64, 27724), (92, 27967), (95, 27973), (104, 28003),

Gene: LifeSavor_27 Start: 8150, Stop: 8506, Start Num: 48
Candidate Starts for LifeSavor_27:
(Start: 48 @8150 has 173 MA's), (78, 8264), (89, 8357), (105, 8453),

Gene: LilHazelnut_43 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for LilHazelnut_43:
(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's),
(Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104,
32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: LilTurb_36 Start: 27509, Stop: 27907, Start Num: 45
Candidate Starts for LilTurb_36:
(Start: 45 @27509 has 40 MA's), (64, 27557), (92, 27800), (95, 27806), (104, 27836),

Gene: LinStu_26 Start: 9052, Stop: 9408, Start Num: 48
Candidate Starts for LinStu_26:
(Start: 48 @9052 has 173 MA's), (89, 9259), (105, 9355),

Gene: Littleton_26 Start: 8154, Stop: 8510, Start Num: 48
Candidate Starts for Littleton_26:
(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Loanshark_26 Start: 8699, Stop: 9055, Start Num: 48
Candidate Starts for Loanshark_26:
(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: LolaVinca_29 Start: 9911, Stop: 10267, Start Num: 48
Candidate Starts for LolaVinca_29:
(Start: 48 @9911 has 173 MA's), (78, 10025), (89, 10118), (105, 10214),

Gene: Longacauda_57 Start: 48726, Stop: 48355, Start Num: 51
Candidate Starts for Longacauda_57:
(12, 48927), (14, 48882), (17, 48852), (Start: 51 @48726 has 152 MA's), (Start: 52 @48723 has 94
MA's), (64, 48684), (77, 48603), (92, 48441), (94, 48438), (105, 48387),

Gene: Lopsy_53 Start: 47237, Stop: 46869, Start Num: 52
Candidate Starts for Lopsy_53:
(12, 47441), (14, 47396), (17, 47366), (33, 47279), (Start: 51 @47240 has 152 MA's), (Start: 52
@47237 has 94 MA's), (64, 47198), (76, 47126), (77, 47117), (92, 46955), (94, 46952), (105, 46901),

Gene: LordLeafolot_31 Start: 10269, Stop: 10625, Start Num: 48
Candidate Starts for LordLeafolot_31:
(Start: 48 @10269 has 173 MA's), (78, 10383), (89, 10476), (105, 10572),

Gene: LostAndPhound_56 Start: 48369, Stop: 47998, Start Num: 51
Candidate Starts for LostAndPhound_56:
(12, 48570), (14, 48525), (17, 48495), (Start: 51 @48369 has 152 MA's), (Start: 52 @48366 has 94
MA's), (64, 48327), (76, 48255), (92, 48084), (94, 48081), (105, 48030),

Gene: LuckyMarjie_54 Start: 48045, Stop: 47674, Start Num: 51
Candidate Starts for LuckyMarjie_54:
(12, 48246), (14, 48201), (17, 48171), (33, 48084), (Start: 51 @48045 has 152 MA's), (Start: 52
@48042 has 94 MA's), (77, 47922), (92, 47760), (94, 47757), (105, 47706),

Gene: Luke_43 Start: 33271, Stop: 32846, Start Num: 28

Candidate Starts for Luke_43:

(Start: 15 @33364 has 4 MA's), (Start: 28 @33271 has 15 MA's), (Start: 38 @33247 has 3 MA's),
(Start: 56 @33205 has 3 MA's), (57, 33202), (65, 33181), (70, 33160), (74, 33130), (86, 33028), (104,
32914), (105, 32899), (106, 32896), (110, 32875), (116, 32854),

Gene: Lukilu_19 Start: 7293, Stop: 7649, Start Num: 48

Candidate Starts for Lukilu_19:

(Start: 48 @7293 has 173 MA's), (89, 7500), (105, 7596),

Gene: Lulumae_54 Start: 48030, Stop: 47659, Start Num: 51

Candidate Starts for Lulumae_54:

(12, 48231), (14, 48186), (17, 48156), (33, 48069), (Start: 51 @48030 has 152 MA's), (Start: 52
@48027 has 94 MA's), (77, 47907), (92, 47745), (94, 47742), (105, 47691),

Gene: Lulwa_54 Start: 47669, Stop: 47298, Start Num: 51

Candidate Starts for Lulwa_54:

(12, 47870), (14, 47825), (17, 47795), (Start: 51 @47669 has 152 MA's), (Start: 52 @47666 has 94
MA's), (64, 47627), (76, 47555), (92, 47384), (94, 47381), (105, 47330),

Gene: Lumine_57 Start: 48514, Stop: 48143, Start Num: 51

Candidate Starts for Lumine_57:

(12, 48715), (14, 48670), (17, 48640), (Start: 51 @48514 has 152 MA's), (Start: 52 @48511 has 94
MA's), (64, 48472), (77, 48391), (92, 48229), (94, 48226), (105, 48175),

Gene: Luna22_41 Start: 33316, Stop: 32891, Start Num: 28

Candidate Starts for Luna22_41:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's),
(Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104,
32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: MRabcd_55 Start: 48427, Stop: 48056, Start Num: 51

Candidate Starts for MRabcd_55:

(12, 48628), (14, 48583), (17, 48553), (Start: 51 @48427 has 152 MA's), (Start: 52 @48424 has 94
MA's), (64, 48385), (76, 48313), (92, 48142), (94, 48139), (105, 48088),

Gene: Maby2021_27 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for Maby2021_27:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Mag7_56 Start: 48272, Stop: 47901, Start Num: 51

Candidate Starts for Mag7_56:

(8, 48632), (12, 48473), (14, 48428), (17, 48398), (Start: 51 @48272 has 152 MA's), (Start: 52
@48269 has 94 MA's), (64, 48230), (69, 48212), (76, 48158), (77, 48149), (92, 47987), (94, 47984),
(105, 47933),

Gene: Magic8_57 Start: 48665, Stop: 48297, Start Num: 52

Candidate Starts for Magic8_57:

(12, 48869), (14, 48824), (17, 48794), (Start: 51 @48668 has 152 MA's), (Start: 52 @48665 has 94
MA's), (64, 48626), (77, 48545), (92, 48383), (94, 48380), (105, 48329),

Gene: Mana_55 Start: 48352, Stop: 47981, Start Num: 51

Candidate Starts for Mana_55:

(12, 48553), (14, 48508), (17, 48478), (Start: 51 @48352 has 152 MA's), (Start: 52 @48349 has 94 MA's), (64, 48310), (76, 48238), (92, 48067), (94, 48064), (105, 48013),

Gene: Manad_55 Start: 48327, Stop: 47956, Start Num: 51

Candidate Starts for Manad_55:

(12, 48528), (14, 48483), (17, 48453), (33, 48366), (Start: 51 @48327 has 152 MA's), (Start: 52 @48324 has 94 MA's), (64, 48285), (76, 48213), (77, 48204), (92, 48042), (94, 48039), (105, 47988),

Gene: Mangeria_29 Start: 9225, Stop: 9581, Start Num: 48

Candidate Starts for Mangeria_29:

(Start: 48 @9225 has 173 MA's), (78, 9339), (89, 9432), (105, 9528),

Gene: Mao1_58 Start: 45715, Stop: 46089, Start Num: 38

Candidate Starts for Mao1_58:

(23, 45658), (Start: 38 @45715 has 3 MA's), (46, 45730), (50, 45745), (64, 45781), (71, 45808), (89, 45958), (104, 46036), (105, 46051),

Gene: Marcoliusprime_39 Start: 31497, Stop: 31114, Start Num: 37

Candidate Starts for Marcoliusprime_39:

(Start: 37 @31497 has 9 MA's), (63, 31437), (75, 31374), (82, 31323), (89, 31266), (95, 31194), (105, 31149), (106, 31146), (110, 31125),

Gene: MarkPhew_75 Start: 49591, Stop: 49965, Start Num: 30

Candidate Starts for MarkPhew_75:

(Start: 30 @49591 has 18 MA's), (65, 49648), (75, 49696), (82, 49747), (84, 49768), (89, 49804), (91, 49840), (96, 49879), (102, 49897), (104, 49906), (105, 49921),

Gene: Marshawn_72 Start: 49975, Stop: 50358, Start Num: 30

Candidate Starts for Marshawn_72:

(Start: 30 @49975 has 18 MA's), (32, 49981), (63, 50035), (64, 50038), (67, 50050), (80, 50122), (82, 50140), (84, 50161), (89, 50197), (91, 50233), (96, 50272), (102, 50290), (104, 50299), (114, 50353),

Gene: Maru_56 Start: 48788, Stop: 48420, Start Num: 52

Candidate Starts for Maru_56:

(12, 48992), (14, 48947), (17, 48917), (Start: 51 @48791 has 152 MA's), (Start: 52 @48788 has 94 MA's), (64, 48749), (76, 48677), (92, 48506), (94, 48503), (105, 48452),

Gene: Maskar_57 Start: 48338, Stop: 47967, Start Num: 51

Candidate Starts for Maskar_57:

(8, 48698), (12, 48539), (14, 48494), (17, 48464), (Start: 51 @48338 has 152 MA's), (Start: 52 @48335 has 94 MA's), (64, 48296), (69, 48278), (76, 48224), (77, 48215), (92, 48053), (94, 48050), (105, 47999),

Gene: Matalotodo_55 Start: 48362, Stop: 47991, Start Num: 51

Candidate Starts for Matalotodo_55:

(12, 48563), (14, 48518), (17, 48488), (Start: 51 @48362 has 152 MA's), (Start: 52 @48359 has 94 MA's), (64, 48320), (77, 48239), (92, 48077), (94, 48074), (105, 48023),

Gene: Matsumoto_25 Start: 8115, Stop: 8471, Start Num: 48

Candidate Starts for Matsumoto_25:

(Start: 48 @8115 has 173 MA's), (78, 8229), (89, 8322), (105, 8418),

Gene: McGee_25 Start: 7341, Stop: 7697, Start Num: 48
Candidate Starts for McGee_25:
(Start: 48 @7341 has 173 MA's), (89, 7548), (105, 7644),

Gene: McWolfish_25 Start: 8449, Stop: 8805, Start Num: 48
Candidate Starts for McWolfish_25:
(Start: 48 @8449 has 173 MA's), (89, 8656), (105, 8752),

Gene: Mcshane_55 Start: 48347, Stop: 47979, Start Num: 52
Candidate Starts for Mcshane_55:
(12, 48551), (14, 48506), (17, 48476), (Start: 51 @48350 has 152 MA's), (Start: 52 @48347 has 94 MA's), (64, 48308), (77, 48227), (92, 48065), (94, 48062), (105, 48011),

Gene: Mecca_56 Start: 48873, Stop: 48502, Start Num: 51
Candidate Starts for Mecca_56:
(12, 49074), (14, 49029), (17, 48999), (Start: 51 @48873 has 152 MA's), (Start: 52 @48870 has 94 MA's), (64, 48831), (77, 48750), (92, 48588), (94, 48585), (105, 48534),

Gene: Megabear_44 Start: 40128, Stop: 40529, Start Num: 31
Candidate Starts for Megabear_44:
(Start: 31 @40128 has 8 MA's), (Start: 38 @40143 has 3 MA's), (86, 40359), (87, 40365), (89, 40380), (99, 40440), (103, 40458), (104, 40461), (105, 40476), (114, 40515), (115, 40518),

Gene: Megamind_26 Start: 8690, Stop: 9046, Start Num: 48
Candidate Starts for Megamind_26:
(Start: 48 @8690 has 173 MA's), (78, 8804), (89, 8897), (105, 8993),

Gene: Megamind20_57 Start: 48338, Stop: 47967, Start Num: 51
Candidate Starts for Megamind20_57:
(12, 48539), (14, 48494), (17, 48464), (Start: 51 @48338 has 152 MA's), (Start: 52 @48335 has 94 MA's), (64, 48296), (77, 48215), (92, 48053), (94, 48050), (105, 47999),

Gene: Megatron_57 Start: 48864, Stop: 48493, Start Num: 51
Candidate Starts for Megatron_57:
(12, 49065), (14, 49020), (17, 48990), (Start: 51 @48864 has 152 MA's), (Start: 52 @48861 has 94 MA's), (64, 48822), (77, 48741), (92, 48579), (94, 48576), (105, 48525),

Gene: Megatron06_74 Start: 52721, Stop: 53110, Start Num: 48
Candidate Starts for Megatron06_74:
(Start: 48 @52721 has 173 MA's), (60, 52748), (64, 52760), (73, 52805), (74, 52808), (78, 52838), (92, 52988), (108, 53060),

Gene: Melc17_56 Start: 49179, Stop: 48811, Start Num: 52
Candidate Starts for Melc17_56:
(12, 49383), (14, 49338), (17, 49308), (Start: 51 @49182 has 152 MA's), (Start: 52 @49179 has 94 MA's), (64, 49140), (77, 49059), (92, 48897), (94, 48894), (105, 48843),

Gene: Melpomini_25 Start: 7556, Stop: 7912, Start Num: 48
Candidate Starts for Melpomini_25:
(Start: 48 @7556 has 173 MA's), (78, 7670), (89, 7763), (105, 7859),

Gene: MelsMeow_56 Start: 48391, Stop: 48020, Start Num: 51
Candidate Starts for MelsMeow_56:

(8, 48751), (12, 48592), (14, 48547), (17, 48517), (Start: 51 @48391 has 152 MA's), (Start: 52 @48388 has 94 MA's), (64, 48349), (69, 48331), (76, 48277), (77, 48268), (92, 48106), (94, 48103), (105, 48052),

Gene: Mesh1_57 Start: 48881, Stop: 48513, Start Num: 52

Candidate Starts for Mesh1_57:

(12, 49085), (14, 49040), (17, 49010), (Start: 51 @48884 has 152 MA's), (Start: 52 @48881 has 94 MA's), (64, 48842), (76, 48770), (92, 48599), (94, 48596), (105, 48545),

Gene: MichaelPhcott_56 Start: 48266, Stop: 47898, Start Num: 52

Candidate Starts for MichaelPhcott_56:

(8, 48629), (12, 48470), (14, 48425), (17, 48395), (Start: 51 @48269 has 152 MA's), (Start: 52 @48266 has 94 MA's), (64, 48227), (69, 48209), (76, 48155), (77, 48146), (92, 47984), (94, 47981), (105, 47930),

Gene: MiculUcigas_36 Start: 27376, Stop: 27771, Start Num: 45

Candidate Starts for MiculUcigas_36:

(Start: 45 @27376 has 40 MA's), (91, 27634), (92, 27664), (104, 27700),

Gene: MikeLiesIn_26 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for MikeLiesIn_26:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Miko_39 Start: 28708, Stop: 29079, Start Num: 56

Candidate Starts for Miko_39:

(Start: 56 @28708 has 3 MA's), (80, 28825), (89, 28900), (91, 28936), (92, 28966), (104, 29002), (110, 29041), (113, 29053), (115, 29059),

Gene: Mikota_54 Start: 47646, Stop: 47278, Start Num: 52

Candidate Starts for Mikota_54:

(12, 47850), (14, 47805), (17, 47775), (33, 47688), (Start: 51 @47649 has 152 MA's), (Start: 52 @47646 has 94 MA's), (64, 47607), (77, 47526), (92, 47364), (94, 47361), (105, 47310),

Gene: Mikro_24 Start: 9185, Stop: 9541, Start Num: 48

Candidate Starts for Mikro_24:

(Start: 48 @9185 has 173 MA's), (78, 9299), (89, 9392), (105, 9488),

Gene: Milly_39 Start: 31470, Stop: 31087, Start Num: 37

Candidate Starts for Milly_39:

(Start: 37 @31470 has 9 MA's), (63, 31410), (75, 31347), (82, 31296), (89, 31239), (95, 31167), (105, 31122), (110, 31098),

Gene: MiniBoss_54 Start: 47652, Stop: 47284, Start Num: 52

Candidate Starts for MiniBoss_54:

(12, 47856), (14, 47811), (17, 47781), (33, 47694), (Start: 51 @47655 has 152 MA's), (Start: 52 @47652 has 94 MA's), (64, 47613), (77, 47532), (92, 47370), (94, 47367), (105, 47316),

Gene: MitKao_56 Start: 48359, Stop: 47991, Start Num: 52

Candidate Starts for MitKao_56:

(12, 48563), (14, 48518), (17, 48488), (Start: 51 @48362 has 152 MA's), (Start: 52 @48359 has 94 MA's), (64, 48320), (76, 48248), (92, 48077), (94, 48074), (105, 48023),

Gene: MoMoMixon_27 Start: 9016, Stop: 9372, Start Num: 48

Candidate Starts for MoMoMixon_27:
(Start: 48 @9016 has 173 MA's), (89, 9223), (105, 9319),

Gene: Momo_25 Start: 8154, Stop: 8510, Start Num: 48
Candidate Starts for Momo_25:
(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: MontyDev_56 Start: 42299, Stop: 42769, Start Num: 18
Candidate Starts for MontyDev_56:
(Start: 18 @42299 has 5 MA's), (Start: 26 @42338 has 1 MA's), (Start: 36 @42368 has 1 MA's), (Start: 43 @42380 has 2 MA's), (Start: 48 @42392 has 173 MA's), (54, 42407), (Start: 56 @42413 has 3 MA's), (72, 42464), (85, 42578), (89, 42608), (103, 42698), (104, 42701), (105, 42716),

Gene: Morgushi_56 Start: 48348, Stop: 47980, Start Num: 52
Candidate Starts for Morgushi_56:
(12, 48552), (14, 48507), (17, 48477), (Start: 51 @48351 has 152 MA's), (Start: 52 @48348 has 94 MA's), (64, 48309), (76, 48237), (92, 48066), (94, 48063), (105, 48012),

Gene: Morizzled23_25 Start: 7556, Stop: 7912, Start Num: 48
Candidate Starts for Morizzled23_25:
(Start: 48 @7556 has 173 MA's), (78, 7670), (89, 7763), (105, 7859),

Gene: Morty_57 Start: 48873, Stop: 48502, Start Num: 51
Candidate Starts for Morty_57:
(12, 49074), (14, 49029), (17, 48999), (Start: 51 @48873 has 152 MA's), (Start: 52 @48870 has 94 MA's), (64, 48831), (77, 48750), (92, 48588), (94, 48585), (105, 48534),

Gene: Mosaic_55 Start: 48356, Stop: 47985, Start Num: 51
Candidate Starts for Mosaic_55:
(12, 48557), (14, 48512), (17, 48482), (Start: 51 @48356 has 152 MA's), (Start: 52 @48353 has 94 MA's), (64, 48314), (76, 48242), (92, 48071), (94, 48068), (105, 48017),

Gene: MrMiyagi_55 Start: 39832, Stop: 40308, Start Num: 19
Candidate Starts for MrMiyagi_55:
(Start: 19 @39832 has 2 MA's), (29, 39886), (40, 39913), (Start: 43 @39916 has 2 MA's), (61, 39961), (64, 39970), (71, 39997), (74, 40024), (106, 40255),

Gene: MrPhizzler_57 Start: 48818, Stop: 48447, Start Num: 51
Candidate Starts for MrPhizzler_57:
(8, 49178), (12, 49019), (14, 48974), (17, 48944), (Start: 51 @48818 has 152 MA's), (Start: 52 @48815 has 94 MA's), (64, 48776), (76, 48704), (92, 48533), (94, 48530), (105, 48479),

Gene: Mufasa_40 Start: 31391, Stop: 31008, Start Num: 37
Candidate Starts for Mufasa_40:
(Start: 37 @31391 has 9 MA's), (63, 31331), (75, 31268), (82, 31217), (86, 31181), (89, 31160), (95, 31088), (105, 31043),

Gene: Mulan_56 Start: 48587, Stop: 48219, Start Num: 52
Candidate Starts for Mulan_56:
(12, 48791), (14, 48746), (17, 48716), (Start: 51 @48590 has 152 MA's), (Start: 52 @48587 has 94 MA's), (64, 48548), (77, 48467), (92, 48305), (94, 48302), (105, 48251),

Gene: Murdoc_55 Start: 48349, Stop: 47981, Start Num: 52

Candidate Starts for Murdoc_55:

(12, 48553), (14, 48508), (17, 48478), (Start: 51 @48352 has 152 MA's), (Start: 52 @48349 has 94 MA's), (64, 48310), (77, 48229), (92, 48067), (94, 48064), (105, 48013),

Gene: Mutante_56 Start: 48359, Stop: 47991, Start Num: 52

Candidate Starts for Mutante_56:

(12, 48563), (14, 48518), (17, 48488), (Start: 51 @48362 has 152 MA's), (Start: 52 @48359 has 94 MA's), (64, 48320), (77, 48239), (92, 48077), (94, 48074), (105, 48023),

Gene: NaSiaTalie_36 Start: 27374, Stop: 27769, Start Num: 45

Candidate Starts for NaSiaTalie_36:

(Start: 45 @27374 has 40 MA's), (91, 27632), (92, 27662), (104, 27698),

Gene: Nacho_0057 Start: 48867, Stop: 48496, Start Num: 51

Candidate Starts for Nacho_0057:

(12, 49068), (14, 49023), (17, 48993), (Start: 51 @48867 has 152 MA's), (Start: 52 @48864 has 94 MA's), (64, 48825), (77, 48744), (92, 48582), (94, 48579), (105, 48528),

Gene: Naija_26 Start: 8154, Stop: 8510, Start Num: 48

Candidate Starts for Naija_26:

(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Napoleon13_25 Start: 7575, Stop: 7931, Start Num: 48

Candidate Starts for Napoleon13_25:

(Start: 48 @7575 has 173 MA's), (78, 7689), (89, 7782), (105, 7878),

Gene: Nappy_27 Start: 8863, Stop: 9219, Start Num: 48

Candidate Starts for Nappy_27:

(Start: 48 @8863 has 173 MA's), (78, 8977), (89, 9070), (105, 9166),

Gene: Naval22_28 Start: 8739, Stop: 9095, Start Num: 48

Candidate Starts for Naval22_28:

(Start: 48 @8739 has 173 MA's), (78, 8853), (89, 8946), (105, 9042),

Gene: NedWong_27 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for NedWong_27:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Newman_55 Start: 48347, Stop: 47976, Start Num: 51

Candidate Starts for Newman_55:

(12, 48548), (14, 48503), (17, 48473), (33, 48386), (Start: 51 @48347 has 152 MA's), (Start: 52 @48344 has 94 MA's), (64, 48305), (76, 48233), (92, 48062), (94, 48059), (105, 48008),

Gene: Ngannou_24 Start: 7330, Stop: 7686, Start Num: 48

Candidate Starts for Ngannou_24:

(Start: 48 @7330 has 173 MA's), (78, 7444), (89, 7537), (105, 7633),

Gene: Nicole21_57 Start: 48596, Stop: 48228, Start Num: 52

Candidate Starts for Nicole21_57:

(12, 48800), (14, 48755), (17, 48725), (Start: 51 @48599 has 152 MA's), (Start: 52 @48596 has 94 MA's), (64, 48557), (77, 48476), (92, 48314), (94, 48311), (105, 48260),

Gene: Nidhogg_27 Start: 8769, Stop: 9125, Start Num: 48

Candidate Starts for Nidhogg_27:

(Start: 48 @8769 has 173 MA's), (89, 8976), (105, 9072),

Gene: Nilo_57 Start: 42651, Stop: 43121, Start Num: 18

Candidate Starts for Nilo_57:

(Start: 18 @42651 has 5 MA's), (Start: 26 @42690 has 1 MA's), (Start: 36 @42720 has 1 MA's), (Start: 43 @42732 has 2 MA's), (Start: 48 @42744 has 173 MA's), (54, 42759), (Start: 56 @42765 has 3 MA's), (72, 42816), (85, 42930), (89, 42960), (103, 43050), (104, 43053), (105, 43068),

Gene: NoodleTree_25 Start: 8186, Stop: 8542, Start Num: 48

Candidate Starts for NoodleTree_25:

(Start: 48 @8186 has 173 MA's), (89, 8393), (105, 8489),

Gene: Norm_26 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for Norm_26:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Nova_55 Start: 43178, Stop: 43558, Start Num: 44

Candidate Starts for Nova_55:

(Start: 44 @43178 has 5 MA's), (59, 43211), (60, 43214), (61, 43217), (73, 43271), (74, 43274), (88, 43394), (105, 43505), (106, 43508),

Gene: NuevoMundo_29 Start: 9756, Stop: 10112, Start Num: 48

Candidate Starts for NuevoMundo_29:

(Start: 48 @9756 has 173 MA's), (78, 9870), (89, 9963), (105, 10059),

Gene: Numberten_55 Start: 48342, Stop: 47971, Start Num: 51

Candidate Starts for Numberten_55:

(8, 48702), (12, 48543), (14, 48498), (17, 48468), (33, 48381), (Start: 51 @48342 has 152 MA's), (Start: 52 @48339 has 94 MA's), (77, 48219), (92, 48057), (94, 48054), (105, 48003),

Gene: Nyala_55 Start: 48315, Stop: 47947, Start Num: 52

Candidate Starts for Nyala_55:

(12, 48519), (14, 48474), (17, 48444), (Start: 51 @48318 has 152 MA's), (Start: 52 @48315 has 94 MA's), (64, 48276), (77, 48195), (92, 48033), (94, 48030), (105, 47979),

Gene: OBUpride_43 Start: 33310, Stop: 32885, Start Num: 28

Candidate Starts for OBUpride_43:

(Start: 15 @33403 has 4 MA's), (Start: 28 @33310 has 15 MA's), (Start: 38 @33286 has 3 MA's), (Start: 56 @33244 has 3 MA's), (57, 33241), (65, 33220), (70, 33199), (74, 33169), (86, 33067), (104, 32953), (105, 32938), (106, 32935), (110, 32914), (116, 32893),

Gene: OSmaximus_57 Start: 48906, Stop: 48535, Start Num: 51

Candidate Starts for OSmaximus_57:

(12, 49107), (14, 49062), (17, 49032), (33, 48945), (Start: 51 @48906 has 152 MA's), (Start: 52 @48903 has 94 MA's), (64, 48864), (76, 48792), (92, 48621), (94, 48618), (105, 48567),

Gene: Oaker_71 Start: 52771, Stop: 53139, Start Num: 48

Candidate Starts for Oaker_71:

(Start: 48 @52771 has 173 MA's), (60, 52798), (64, 52810), (74, 52858), (75, 52873), (92, 53035), (104, 53071), (106, 53089),

Gene: Olak_56 Start: 48321, Stop: 47950, Start Num: 51

Candidate Starts for Olak_56:

(12, 48522), (14, 48477), (17, 48447), (Start: 51 @48321 has 152 MA's), (Start: 52 @48318 has 94 MA's), (64, 48279), (77, 48198), (92, 48036), (94, 48033), (105, 47982),

Gene: Oline_56 Start: 48216, Stop: 47845, Start Num: 51

Candidate Starts for Oline_56:

(8, 48576), (12, 48417), (14, 48372), (17, 48342), (Start: 51 @48216 has 152 MA's), (Start: 52 @48213 has 94 MA's), (64, 48174), (69, 48156), (76, 48102), (77, 48093), (92, 47931), (94, 47928), (105, 47877),

Gene: Olive_55 Start: 48332, Stop: 47961, Start Num: 51

Candidate Starts for Olive_55:

(9, 48677), (12, 48533), (14, 48488), (17, 48458), (33, 48371), (Start: 51 @48332 has 152 MA's), (Start: 52 @48329 has 94 MA's), (77, 48209), (92, 48047), (94, 48044), (105, 47993),

Gene: OliverWalter_55 Start: 48353, Stop: 47982, Start Num: 51

Candidate Starts for OliverWalter_55:

(12, 48554), (14, 48509), (17, 48479), (33, 48392), (Start: 51 @48353 has 152 MA's), (Start: 52 @48350 has 94 MA's), (64, 48311), (77, 48230), (92, 48068), (94, 48065), (105, 48014),

Gene: Omniscient_57 Start: 49180, Stop: 48809, Start Num: 51

Candidate Starts for Omniscient_57:

(8, 49540), (12, 49381), (14, 49336), (17, 49306), (Start: 51 @49180 has 152 MA's), (Start: 52 @49177 has 94 MA's), (64, 49138), (77, 49057), (92, 48895), (94, 48892), (105, 48841),

Gene: Oosterbaan_56 Start: 48639, Stop: 48271, Start Num: 52

Candidate Starts for Oosterbaan_56:

(12, 48843), (14, 48798), (17, 48768), (Start: 51 @48642 has 152 MA's), (Start: 52 @48639 has 94 MA's), (64, 48600), (77, 48519), (92, 48357), (94, 48354), (105, 48303),

Gene: Orfeu_55 Start: 48315, Stop: 47944, Start Num: 51

Candidate Starts for Orfeu_55:

(12, 48516), (14, 48471), (17, 48441), (Start: 51 @48315 has 152 MA's), (Start: 52 @48312 has 94 MA's), (64, 48273), (77, 48192), (92, 48030), (94, 48027), (105, 47976),

Gene: Orion_57 Start: 48301, Stop: 47933, Start Num: 52

Candidate Starts for Orion_57:

(12, 48505), (14, 48460), (17, 48430), (Start: 51 @48304 has 152 MA's), (Start: 52 @48301 has 94 MA's), (64, 48262), (77, 48181), (92, 48019), (94, 48016), (105, 47965),

Gene: Orwigg_57 Start: 48284, Stop: 47913, Start Num: 51

Candidate Starts for Orwigg_57:

(12, 48485), (14, 48440), (17, 48410), (Start: 51 @48284 has 152 MA's), (Start: 52 @48281 has 94 MA's), (64, 48242), (77, 48161), (92, 47999), (94, 47996), (105, 47945),

Gene: PG1_57 Start: 48872, Stop: 48504, Start Num: 52

Candidate Starts for PG1_57:

(12, 49076), (14, 49031), (17, 49001), (Start: 51 @48875 has 152 MA's), (Start: 52 @48872 has 94 MA's), (64, 48833), (77, 48752), (92, 48590), (94, 48587), (105, 48536),

Gene: PR_44 Start: 40732, Stop: 41133, Start Num: 31

Candidate Starts for PR_44:

(Start: 31 @40732 has 8 MA's), (Start: 38 @40747 has 3 MA's), (86, 40963), (87, 40969), (89, 40984), (99, 41044), (103, 41062), (104, 41065), (105, 41080), (114, 41119), (115, 41122),

Gene: Pacifista_58 Start: 48317, Stop: 47946, Start Num: 51

Candidate Starts for Pacifista_58:

(12, 48518), (14, 48473), (17, 48443), (Start: 51 @48317 has 152 MA's), (Start: 52 @48314 has 94 MA's), (64, 48275), (77, 48194), (92, 48032), (94, 48029), (105, 47978),

Gene: Papyrus_56 Start: 42546, Stop: 42977, Start Num: 26

Candidate Starts for Papyrus_56:

(Start: 26 @42546 has 1 MA's), (Start: 36 @42576 has 1 MA's), (Start: 43 @42588 has 2 MA's), (Start: 48 @42600 has 173 MA's), (Start: 56 @42621 has 3 MA's), (72, 42672), (85, 42786), (89, 42816), (103, 42906), (104, 42909), (105, 42924),

Gene: ParkTD_25 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for ParkTD_25:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Patter_26 Start: 8171, Stop: 8527, Start Num: 48

Candidate Starts for Patter_26:

(Start: 48 @8171 has 173 MA's), (78, 8285), (89, 8378), (105, 8474),

Gene: Phamished_57 Start: 48321, Stop: 47953, Start Num: 52

Candidate Starts for Phamished_57:

(12, 48525), (14, 48480), (17, 48450), (33, 48363), (Start: 51 @48324 has 152 MA's), (Start: 52 @48321 has 94 MA's), (64, 48282), (77, 48201), (92, 48039), (94, 48036), (105, 47985),

Gene: Pharb_73 Start: 49246, Stop: 49617, Start Num: 30

Candidate Starts for Pharb_73:

(Start: 30 @49246 has 18 MA's), (Start: 38 @49261 has 3 MA's), (41, 49267), (63, 49297), (76, 49351), (80, 49381), (84, 49420), (87, 49441), (89, 49456), (91, 49492), (102, 49549), (104, 49558), (113, 49609),

Gene: Phareon_55 Start: 48039, Stop: 47668, Start Num: 51

Candidate Starts for Phareon_55:

(12, 48240), (14, 48195), (17, 48165), (33, 48078), (Start: 51 @48039 has 152 MA's), (Start: 52 @48036 has 94 MA's), (77, 47916), (92, 47754), (94, 47751), (105, 47700),

Gene: PhatCats2014_57 Start: 48879, Stop: 48508, Start Num: 51

Candidate Starts for PhatCats2014_57:

(12, 49080), (14, 49035), (17, 49005), (Start: 51 @48879 has 152 MA's), (Start: 52 @48876 has 94 MA's), (64, 48837), (77, 48756), (92, 48594), (94, 48591), (105, 48540),

Gene: PhatLouie_57 Start: 48655, Stop: 48284, Start Num: 51

Candidate Starts for PhatLouie_57:

(8, 49015), (12, 48856), (14, 48811), (17, 48781), (33, 48694), (Start: 51 @48655 has 152 MA's), (Start: 52 @48652 has 94 MA's), (77, 48532), (92, 48370), (94, 48367), (105, 48316),

Gene: PhenghisKhan_56 Start: 48272, Stop: 47904, Start Num: 52

Candidate Starts for PhenghisKhan_56:

(8, 48635), (12, 48476), (14, 48431), (17, 48401), (Start: 51 @48275 has 152 MA's), (Start: 52 @48272 has 94 MA's), (64, 48233), (69, 48215), (76, 48161), (77, 48152), (92, 47990), (94, 47987), (105, 47936),

Gene: Pherdinand_57 Start: 48334, Stop: 47963, Start Num: 51

Candidate Starts for Pherdinand_57:

(12, 48535), (14, 48490), (17, 48460), (Start: 51 @48334 has 152 MA's), (Start: 52 @48331 has 94 MA's), (64, 48292), (77, 48211), (92, 48049), (94, 48046), (105, 47995),

Gene: Phergie_57 Start: 48264, Stop: 47896, Start Num: 52

Candidate Starts for Phergie_57:

(8, 48627), (12, 48468), (14, 48423), (17, 48393), (Start: 51 @48267 has 152 MA's), (Start: 52 @48264 has 94 MA's), (64, 48225), (69, 48207), (76, 48153), (77, 48144), (92, 47982), (94, 47979), (105, 47928),

Gene: Phipps_56 Start: 48152, Stop: 47781, Start Num: 51

Candidate Starts for Phipps_56:

(12, 48353), (14, 48308), (17, 48278), (Start: 51 @48152 has 152 MA's), (Start: 52 @48149 has 94 MA's), (64, 48110), (77, 48029), (92, 47867), (94, 47864), (105, 47813),

Gene: Phlegm_28 Start: 8154, Stop: 8510, Start Num: 48

Candidate Starts for Phlegm_28:

(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Phleuron_56 Start: 48269, Stop: 47901, Start Num: 52

Candidate Starts for Phleuron_56:

(8, 48632), (12, 48473), (14, 48428), (17, 48398), (Start: 51 @48272 has 152 MA's), (Start: 52 @48269 has 94 MA's), (64, 48230), (69, 48212), (76, 48158), (77, 48149), (92, 47987), (94, 47984), (105, 47933),

Gene: Phox_25 Start: 8866, Stop: 9222, Start Num: 48

Candidate Starts for Phox_25:

(Start: 48 @8866 has 173 MA's), (89, 9073), (105, 9169),

Gene: PhrankReynolds_55 Start: 48272, Stop: 47901, Start Num: 51

Candidate Starts for PhrankReynolds_55:

(8, 48632), (12, 48473), (14, 48428), (17, 48398), (Start: 51 @48272 has 152 MA's), (Start: 52 @48269 has 94 MA's), (64, 48230), (69, 48212), (76, 48158), (77, 48149), (92, 47987), (94, 47984), (105, 47933),

Gene: Phreeze_70 Start: 51738, Stop: 52106, Start Num: 48

Candidate Starts for Phreeze_70:

(Start: 48 @51738 has 173 MA's), (60, 51765), (64, 51777), (74, 51825), (75, 51840), (92, 52002), (104, 52038), (106, 52056),

Gene: PhrodoBaggins_57 Start: 48737, Stop: 48369, Start Num: 52

Candidate Starts for PhrodoBaggins_57:

(12, 48941), (14, 48896), (17, 48866), (Start: 51 @48740 has 152 MA's), (Start: 52 @48737 has 94 MA's), (64, 48698), (77, 48617), (92, 48455), (94, 48452), (105, 48401),

Gene: Phunky_55 Start: 48336, Stop: 47965, Start Num: 51

Candidate Starts for Phunky_55:

(12, 48537), (14, 48492), (17, 48462), (33, 48375), (Start: 51 @48336 has 152 MA's), (Start: 52 @48333 has 94 MA's), (77, 48213), (92, 48051), (94, 48048), (105, 47997),

Gene: Phusco_26 Start: 8150, Stop: 8506, Start Num: 48

Candidate Starts for Phusco_26:

(Start: 48 @8150 has 173 MA's), (78, 8264), (89, 8357), (105, 8453),

Gene: Pier_28 Start: 8857, Stop: 9213, Start Num: 48

Candidate Starts for Pier_28:

(Start: 48 @8857 has 173 MA's), (78, 8971), (89, 9064), (105, 9160),

Gene: Piglet_0056 Start: 48852, Stop: 48481, Start Num: 51

Candidate Starts for Piglet_0056:

(12, 49053), (14, 49008), (17, 48978), (Start: 51 @48852 has 152 MA's), (Start: 52 @48849 has 94 MA's), (64, 48810), (77, 48729), (92, 48567), (94, 48564), (105, 48513),

Gene: PinheadLarry_57 Start: 48874, Stop: 48506, Start Num: 52

Candidate Starts for PinheadLarry_57:

(12, 49078), (14, 49033), (17, 49003), (Start: 51 @48877 has 152 MA's), (Start: 52 @48874 has 94 MA's), (64, 48835), (77, 48754), (92, 48592), (94, 48589), (105, 48538),

Gene: Pinkcreek_18 Start: 6561, Stop: 6917, Start Num: 48

Candidate Starts for Pinkcreek_18:

(Start: 48 @6561 has 173 MA's), (89, 6768), (105, 6864),

Gene: Pinkman_55 Start: 48210, Stop: 47839, Start Num: 51

Candidate Starts for Pinkman_55:

(8, 48570), (12, 48411), (14, 48366), (17, 48336), (Start: 51 @48210 has 152 MA's), (Start: 52 @48207 has 94 MA's), (64, 48168), (69, 48150), (76, 48096), (77, 48087), (92, 47925), (94, 47922), (105, 47871),

Gene: Pio_29 Start: 9548, Stop: 9904, Start Num: 48

Candidate Starts for Pio_29:

(Start: 48 @9548 has 173 MA's), (78, 9662), (89, 9755), (105, 9851),

Gene: Pipsqueak_55 Start: 48365, Stop: 47994, Start Num: 51

Candidate Starts for Pipsqueak_55:

(12, 48566), (14, 48521), (17, 48491), (Start: 51 @48365 has 152 MA's), (Start: 52 @48362 has 94 MA's), (64, 48323), (77, 48242), (92, 48080), (94, 48077), (105, 48026),

Gene: Pivoine_26 Start: 8154, Stop: 8510, Start Num: 48

Candidate Starts for Pivoine_26:

(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Pixie_74 Start: 49525, Stop: 49920, Start Num: 30

Candidate Starts for Pixie_74:

(Start: 30 @49525 has 18 MA's), (Start: 48 @49561 has 173 MA's), (63, 49597), (87, 49744), (89, 49759), (91, 49795), (113, 49912),

Gene: Placalicious_56 Start: 48864, Stop: 48496, Start Num: 52

Candidate Starts for Placalicious_56:

(12, 49068), (14, 49023), (17, 48993), (Start: 51 @48867 has 152 MA's), (Start: 52 @48864 has 94 MA's), (64, 48825), (77, 48744), (92, 48582), (94, 48579), (105, 48528),

Gene: Pleione_28 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for Pleione_28:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Plmatters_55 Start: 48339, Stop: 47968, Start Num: 51

Candidate Starts for Plmatters_55:

(8, 48699), (12, 48540), (14, 48495), (17, 48465), (Start: 51 @48339 has 152 MA's), (Start: 52 @48336 has 94 MA's), (64, 48297), (76, 48225), (92, 48054), (94, 48051), (105, 48000),

Gene: Podrick_54 Start: 47673, Stop: 47305, Start Num: 52

Candidate Starts for Podrick_54:

(12, 47877), (14, 47832), (17, 47802), (Start: 51 @47676 has 152 MA's), (Start: 52 @47673 has 94 MA's), (64, 47634), (76, 47562), (92, 47391), (94, 47388), (105, 47337),

Gene: Pops_55 Start: 48324, Stop: 47953, Start Num: 51

Candidate Starts for Pops_55:

(9, 48666), (12, 48525), (14, 48480), (17, 48450), (Start: 51 @48324 has 152 MA's), (Start: 52 @48321 has 94 MA's), (64, 48282), (69, 48264), (76, 48210), (77, 48201), (92, 48039), (94, 48036), (105, 47985),

Gene: Potter_55 Start: 48373, Stop: 48002, Start Num: 51

Candidate Starts for Potter_55:

(12, 48574), (14, 48529), (17, 48499), (Start: 51 @48373 has 152 MA's), (Start: 52 @48370 has 94 MA's), (64, 48331), (76, 48259), (92, 48088), (94, 48085), (105, 48034),

Gene: Power_35 Start: 27298, Stop: 27681, Start Num: 45

Candidate Starts for Power_35:

(Start: 45 @27298 has 40 MA's), (74, 27382), (87, 27490), (91, 27541), (92, 27571), (113, 27658),

Gene: Prickles_57 Start: 48631, Stop: 48260, Start Num: 51

Candidate Starts for Prickles_57:

(12, 48832), (14, 48787), (17, 48757), (33, 48670), (Start: 51 @48631 has 152 MA's), (Start: 52 @48628 has 94 MA's), (64, 48589), (69, 48571), (77, 48508), (92, 48346), (94, 48343), (105, 48292),

Gene: ProfessorX_55 Start: 48328, Stop: 47960, Start Num: 52

Candidate Starts for ProfessorX_55:

(12, 48532), (14, 48487), (17, 48457), (Start: 51 @48331 has 152 MA's), (Start: 52 @48328 has 94 MA's), (64, 48289), (77, 48208), (92, 48046), (94, 48043), (105, 47992),

Gene: Puhltonio_56 Start: 48647, Stop: 48276, Start Num: 51

Candidate Starts for Puhltonio_56:

(12, 48848), (14, 48803), (17, 48773), (Start: 51 @48647 has 152 MA's), (Start: 52 @48644 has 94 MA's), (64, 48605), (76, 48533), (92, 48362), (94, 48359), (105, 48308),

Gene: Puissant_72 Start: 51841, Stop: 52215, Start Num: 49

Candidate Starts for Puissant_72:

(49, 51841), (60, 51868), (74, 51928), (104, 52144),

Gene: PurduePete_25 Start: 8416, Stop: 8772, Start Num: 48

Candidate Starts for PurduePete_25:

(Start: 48 @8416 has 173 MA's), (78, 8530), (89, 8623), (105, 8719),

Gene: QBert_24 Start: 8866, Stop: 9222, Start Num: 48

Candidate Starts for QBert_24:

(Start: 48 @8866 has 173 MA's), (89, 9073), (105, 9169),

Gene: Quasimodo_26 Start: 9114, Stop: 9470, Start Num: 48
Candidate Starts for Quasimodo_26:
(Start: 48 @9114 has 173 MA's), (78, 9228), (89, 9321), (105, 9417),

Gene: QueenB2_36 Start: 27362, Stop: 27739, Start Num: 45
Candidate Starts for QueenB2_36:
(Start: 45 @27362 has 40 MA's), (91, 27602), (92, 27632), (95, 27638), (104, 27668),

Gene: QueenBeane_56 Start: 48637, Stop: 48266, Start Num: 51
Candidate Starts for QueenBeane_56:
(12, 48838), (14, 48793), (17, 48763), (Start: 51 @48637 has 152 MA's), (Start: 52 @48634 has 94 MA's), (64, 48595), (76, 48523), (92, 48352), (94, 48349), (105, 48298),

Gene: QueenBeesly_36 Start: 27245, Stop: 27628, Start Num: 45
Candidate Starts for QueenBeesly_36:
(Start: 45 @27245 has 40 MA's), (74, 27329), (87, 27437), (91, 27488), (92, 27518), (113, 27605),

Gene: Quisquilliae_57 Start: 48640, Stop: 48269, Start Num: 51
Candidate Starts for Quisquilliae_57:
(12, 48841), (14, 48796), (17, 48766), (Start: 51 @48640 has 152 MA's), (Start: 52 @48637 has 94 MA's), (64, 48598), (77, 48517), (92, 48355), (94, 48352), (105, 48301),

Gene: Rabinovish_25 Start: 9154, Stop: 9510, Start Num: 48
Candidate Starts for Rabinovish_25:
(Start: 48 @9154 has 173 MA's), (89, 9361), (105, 9457),

Gene: Rachaly_39 Start: 28574, Stop: 28945, Start Num: 56
Candidate Starts for Rachaly_39:
(Start: 56 @28574 has 3 MA's), (80, 28691), (89, 28766), (91, 28802), (92, 28832), (104, 28868), (110, 28907), (113, 28919), (115, 28925),

Gene: Rahel_26 Start: 8150, Stop: 8506, Start Num: 48
Candidate Starts for Rahel_26:
(Start: 48 @8150 has 173 MA's), (78, 8264), (89, 8357), (105, 8453),

Gene: RedMaple_57 Start: 48873, Stop: 48502, Start Num: 51
Candidate Starts for RedMaple_57:
(12, 49074), (14, 49029), (17, 48999), (33, 48912), (Start: 51 @48873 has 152 MA's), (Start: 52 @48870 has 94 MA's), (64, 48831), (76, 48759), (92, 48588), (94, 48585), (105, 48534),

Gene: Retro23_37 Start: 27627, Stop: 28010, Start Num: 45
Candidate Starts for Retro23_37:
(Start: 45 @27627 has 40 MA's), (74, 27711), (87, 27819), (91, 27870), (92, 27900), (104, 27936), (113, 27987),

Gene: Ricotta_56 Start: 48330, Stop: 47959, Start Num: 51
Candidate Starts for Ricotta_56:
(12, 48531), (14, 48486), (17, 48456), (Start: 51 @48330 has 152 MA's), (Start: 52 @48327 has 94 MA's), (64, 48288), (77, 48207), (92, 48045), (94, 48042), (105, 47991),

Gene: Riggan_57 Start: 48630, Stop: 48259, Start Num: 51
Candidate Starts for Riggan_57:

(12, 48831), (14, 48786), (17, 48756), (Start: 51 @48630 has 152 MA's), (Start: 52 @48627 has 94 MA's), (64, 48588), (76, 48516), (92, 48345), (94, 48342), (105, 48291),

Gene: Riparian_57 Start: 42099, Stop: 42569, Start Num: 18

Candidate Starts for Riparian_57:

(Start: 18 @42099 has 5 MA's), (Start: 26 @42138 has 1 MA's), (Start: 36 @42168 has 1 MA's), (Start: 43 @42180 has 2 MA's), (Start: 48 @42192 has 173 MA's), (54, 42207), (Start: 56 @42213 has 3 MA's), (72, 42264), (85, 42378), (89, 42408), (103, 42498), (104, 42501), (105, 42516),

Gene: Rizal_24 Start: 7616, Stop: 7972, Start Num: 48

Candidate Starts for Rizal_24:

(Start: 48 @7616 has 173 MA's), (89, 7823), (105, 7919),

Gene: RoMag_21 Start: 7951, Stop: 8307, Start Num: 48

Candidate Starts for RoMag_21:

(Start: 48 @7951 has 173 MA's), (89, 8158), (105, 8254),

Gene: Robyn_55 Start: 48276, Stop: 47905, Start Num: 51

Candidate Starts for Robyn_55:

(12, 48477), (14, 48432), (17, 48402), (33, 48315), (Start: 51 @48276 has 152 MA's), (Start: 52 @48273 has 94 MA's), (64, 48234), (76, 48162), (77, 48153), (92, 47991), (94, 47988), (105, 47937),

Gene: Roliet_54 Start: 47673, Stop: 47302, Start Num: 51

Candidate Starts for Roliet_54:

(12, 47874), (14, 47829), (17, 47799), (33, 47712), (Start: 51 @47673 has 152 MA's), (Start: 52 @47670 has 94 MA's), (64, 47631), (77, 47550), (92, 47388), (94, 47385), (105, 47334),

Gene: Ronan_21 Start: 6262, Stop: 6618, Start Num: 48

Candidate Starts for Ronan_21:

(Start: 48 @6262 has 173 MA's), (89, 6469), (105, 6565),

Gene: Roots515_26 Start: 8698, Stop: 9054, Start Num: 48

Candidate Starts for Roots515_26:

(Start: 48 @8698 has 173 MA's), (89, 8905), (105, 9001),

Gene: Rope_56 Start: 42577, Stop: 42966, Start Num: 43

Candidate Starts for Rope_56:

(Start: 26 @42535 has 1 MA's), (Start: 36 @42565 has 1 MA's), (Start: 43 @42577 has 2 MA's), (Start: 48 @42589 has 173 MA's), (54, 42604), (Start: 56 @42610 has 3 MA's), (72, 42661), (85, 42775), (89, 42805), (103, 42895), (104, 42898), (105, 42913),

Gene: Roscoe_56 Start: 48576, Stop: 48205, Start Num: 51

Candidate Starts for Roscoe_56:

(12, 48777), (14, 48732), (17, 48702), (33, 48615), (Start: 51 @48576 has 152 MA's), (Start: 52 @48573 has 94 MA's), (64, 48534), (76, 48462), (77, 48453), (92, 48291), (94, 48288), (105, 48237),

Gene: Roy17_55 Start: 48030, Stop: 47659, Start Num: 51

Candidate Starts for Roy17_55:

(12, 48231), (14, 48186), (17, 48156), (33, 48069), (Start: 51 @48030 has 152 MA's), (Start: 52 @48027 has 94 MA's), (77, 47907), (92, 47745), (94, 47742), (105, 47691),

Gene: SDcharge11_55 Start: 47644, Stop: 47273, Start Num: 51

Candidate Starts for SDcharge11_55:

(12, 47845), (14, 47800), (17, 47770), (33, 47683), (Start: 51 @47644 has 152 MA's), (Start: 52 @47641 has 94 MA's), (64, 47602), (77, 47521), (92, 47359), (94, 47356), (105, 47305),

Gene: Salacia_28 Start: 8699, Stop: 9055, Start Num: 48
Candidate Starts for Salacia_28:
(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Samaymay_56 Start: 48637, Stop: 48266, Start Num: 51
Candidate Starts for Samaymay_56:
(12, 48838), (14, 48793), (17, 48763), (Start: 51 @48637 has 152 MA's), (Start: 52 @48634 has 94 MA's), (64, 48595), (76, 48523), (92, 48352), (94, 48349), (105, 48298),

Gene: SassyCat97_55 Start: 48364, Stop: 47993, Start Num: 51
Candidate Starts for SassyCat97_55:
(12, 48565), (14, 48520), (17, 48490), (33, 48403), (Start: 51 @48364 has 152 MA's), (Start: 52 @48361 has 94 MA's), (64, 48322), (76, 48250), (92, 48079), (94, 48076), (105, 48025),

Gene: Sauce_27 Start: 8829, Stop: 9185, Start Num: 48
Candidate Starts for Sauce_27:
(Start: 48 @8829 has 173 MA's), (89, 9036), (105, 9132),

Gene: Sbash_50 Start: 38735, Stop: 39223, Start Num: 16
Candidate Starts for Sbash_50:
(Start: 16 @38735 has 1 MA's), (27, 38795), (49, 38855), (63, 38891), (89, 39074), (93, 39119), (98, 39131), (103, 39152), (104, 39155), (105, 39170), (113, 39206), (114, 39209), (115, 39212),

Gene: Schadenfreude_55 Start: 48120, Stop: 47752, Start Num: 52
Candidate Starts for Schadenfreude_55:
(12, 48324), (14, 48279), (17, 48249), (33, 48162), (Start: 51 @48123 has 152 MA's), (Start: 52 @48120 has 94 MA's), (64, 48081), (76, 48009), (77, 48000), (92, 47838), (94, 47835), (105, 47784),

Gene: Schueller_57 Start: 48353, Stop: 47982, Start Num: 51
Candidate Starts for Schueller_57:
(8, 48713), (12, 48554), (14, 48509), (17, 48479), (Start: 51 @48353 has 152 MA's), (Start: 52 @48350 has 94 MA's), (64, 48311), (69, 48293), (76, 48239), (92, 48068), (94, 48065), (105, 48014),

Gene: Scoot17C_57 Start: 48303, Stop: 47935, Start Num: 52
Candidate Starts for Scoot17C_57:
(12, 48507), (14, 48462), (17, 48432), (Start: 51 @48306 has 152 MA's), (Start: 52 @48303 has 94 MA's), (64, 48264), (77, 48183), (92, 48021), (94, 48018), (105, 47967),

Gene: ScottMcG_26 Start: 9009, Stop: 9365, Start Num: 48
Candidate Starts for ScottMcG_26:
(Start: 48 @9009 has 173 MA's), (89, 9216), (105, 9312),

Gene: Scrick_57 Start: 48378, Stop: 48007, Start Num: 51
Candidate Starts for Scrick_57:
(12, 48579), (14, 48534), (17, 48504), (Start: 51 @48378 has 152 MA's), (Start: 52 @48375 has 94 MA's), (64, 48336), (77, 48255), (92, 48093), (94, 48090), (105, 48039),

Gene: Sebata_26 Start: 9052, Stop: 9408, Start Num: 48
Candidate Starts for Sebata_26:
(Start: 48 @9052 has 173 MA's), (89, 9259), (105, 9355),

Gene: Selr12_58 Start: 48346, Stop: 47975, Start Num: 51

Candidate Starts for Selr12_58:

(12, 48547), (14, 48502), (17, 48472), (Start: 51 @48346 has 152 MA's), (Start: 52 @48343 has 94 MA's), (64, 48304), (77, 48223), (92, 48061), (94, 48058), (105, 48007),

Gene: SemperFi_37 Start: 27513, Stop: 27896, Start Num: 45

Candidate Starts for SemperFi_37:

(Start: 45 @27513 has 40 MA's), (74, 27597), (87, 27705), (91, 27756), (92, 27786), (113, 27873),

Gene: Send513_56 Start: 42632, Stop: 43102, Start Num: 18

Candidate Starts for Send513_56:

(Start: 18 @42632 has 5 MA's), (Start: 26 @42671 has 1 MA's), (Start: 36 @42701 has 1 MA's), (Start: 43 @42713 has 2 MA's), (Start: 48 @42725 has 173 MA's), (54, 42740), (Start: 56 @42746 has 3 MA's), (72, 42797), (85, 42911), (89, 42941), (103, 43031), (104, 43034), (105, 43049),

Gene: Serendipitous_53 Start: 48341, Stop: 47952, Start Num: 25

Candidate Starts for Serendipitous_53:

(Start: 25 @48341 has 1 MA's), (89, 48122), (92, 48053), (107, 47996), (109, 47984),

Gene: Serendipity_56 Start: 48658, Stop: 48290, Start Num: 52

Candidate Starts for Serendipity_56:

(12, 48862), (14, 48817), (17, 48787), (Start: 51 @48661 has 152 MA's), (Start: 52 @48658 has 94 MA's), (64, 48619), (76, 48547), (92, 48376), (94, 48373), (105, 48322),

Gene: Serpentine_0056 Start: 48744, Stop: 48373, Start Num: 51

Candidate Starts for Serpentine_0056:

(12, 48945), (14, 48900), (17, 48870), (Start: 51 @48744 has 152 MA's), (Start: 52 @48741 has 94 MA's), (64, 48702), (77, 48621), (92, 48459), (94, 48456), (105, 48405),

Gene: Shadow1_78 Start: 49985, Stop: 50368, Start Num: 30

Candidate Starts for Shadow1_78:

(Start: 30 @49985 has 18 MA's), (41, 50006), (67, 50060), (80, 50132), (84, 50171), (89, 50207), (91, 50243), (104, 50309),

Gene: Shaqnato_22 Start: 7276, Stop: 7632, Start Num: 48

Candidate Starts for Shaqnato_22:

(Start: 48 @7276 has 173 MA's), (89, 7483), (105, 7579),

Gene: ShedlockHolmes_77 Start: 50038, Stop: 50421, Start Num: 30

Candidate Starts for ShedlockHolmes_77:

(Start: 30 @50038 has 18 MA's), (Start: 48 @50074 has 173 MA's), (63, 50110), (75, 50164), (82, 50215), (86, 50251), (87, 50257), (89, 50272), (104, 50374), (105, 50389),

Gene: Sheila_54 Start: 47702, Stop: 47334, Start Num: 52

Candidate Starts for Sheila_54:

(12, 47906), (14, 47861), (17, 47831), (33, 47744), (Start: 51 @47705 has 152 MA's), (Start: 52 @47702 has 94 MA's), (64, 47663), (77, 47582), (92, 47420), (94, 47417), (105, 47366),

Gene: Shelob_28 Start: 9584, Stop: 9940, Start Num: 48

Candidate Starts for Shelob_28:

(Start: 48 @9584 has 173 MA's), (89, 9791), (105, 9887),

Gene: ShiaLabeouf_26 Start: 8150, Stop: 8506, Start Num: 48
Candidate Starts for ShiaLabeouf_26:
(Start: 48 @8150 has 173 MA's), (78, 8264), (89, 8357), (105, 8453),

Gene: Shifa_23 Start: 8335, Stop: 8691, Start Num: 48
Candidate Starts for Shifa_23:
(Start: 48 @8335 has 173 MA's), (89, 8542), (105, 8638),

Gene: Shnickers_26 Start: 8150, Stop: 8506, Start Num: 48
Candidate Starts for Shnickers_26:
(Start: 48 @8150 has 173 MA's), (78, 8264), (89, 8357), (105, 8453),

Gene: Shrimp_26 Start: 8703, Stop: 9059, Start Num: 48
Candidate Starts for Shrimp_26:
(Start: 48 @8703 has 173 MA's), (89, 8910), (105, 9006),

Gene: Sigman_57 Start: 48294, Stop: 47926, Start Num: 52
Candidate Starts for Sigman_57:
(12, 48498), (14, 48453), (17, 48423), (Start: 51 @48297 has 152 MA's), (Start: 52 @48294 has 94 MA's), (64, 48255), (77, 48174), (92, 48012), (94, 48009), (105, 47958),

Gene: SilverDipper_27 Start: 8154, Stop: 8510, Start Num: 48
Candidate Starts for SilverDipper_27:
(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Simielle_55 Start: 48297, Stop: 47929, Start Num: 52
Candidate Starts for Simielle_55:
(8, 48660), (12, 48501), (14, 48456), (17, 48426), (Start: 51 @48300 has 152 MA's), (Start: 52 @48297 has 94 MA's), (64, 48258), (77, 48177), (92, 48015), (94, 48012), (105, 47961),

Gene: SirJeffery_53 Start: 48507, Stop: 48112, Start Num: 45
Candidate Starts for SirJeffery_53:
(4, 48903), (5, 48858), (6, 48855), (35, 48525), (Start: 45 @48507 has 40 MA's), (65, 48453), (107, 48156), (114, 48123),

Gene: SirPhilip_73 Start: 50211, Stop: 50594, Start Num: 30
Candidate Starts for SirPhilip_73:
(Start: 30 @50211 has 18 MA's), (32, 50217), (63, 50271), (67, 50286), (76, 50328), (80, 50358), (84, 50397), (89, 50433), (96, 50508), (104, 50535),

Gene: Skippy_57 Start: 48594, Stop: 48226, Start Num: 52
Candidate Starts for Skippy_57:
(12, 48798), (14, 48753), (17, 48723), (Start: 51 @48597 has 152 MA's), (Start: 52 @48594 has 94 MA's), (64, 48555), (77, 48474), (92, 48312), (94, 48309), (105, 48258),

Gene: Slatt_57 Start: 48659, Stop: 48291, Start Num: 52
Candidate Starts for Slatt_57:
(12, 48863), (14, 48818), (17, 48788), (Start: 51 @48662 has 152 MA's), (Start: 52 @48659 has 94 MA's), (64, 48620), (77, 48539), (92, 48377), (94, 48374), (105, 48323),

Gene: SmallFry_26 Start: 8150, Stop: 8506, Start Num: 48
Candidate Starts for SmallFry_26:
(Start: 48 @8150 has 173 MA's), (78, 8264), (89, 8357), (105, 8453),

Gene: Smeagan_38 Start: 27763, Stop: 28161, Start Num: 45

Candidate Starts for Smeagan_38:

(Start: 45 @27763 has 40 MA's), (64, 27811), (92, 28054), (95, 28060), (104, 28090),

Gene: SnapTap_36 Start: 27324, Stop: 27707, Start Num: 45

Candidate Starts for SnapTap_36:

(Start: 45 @27324 has 40 MA's), (74, 27408), (87, 27516), (91, 27567), (92, 27597), (113, 27684),

Gene: Soile_57 Start: 48882, Stop: 48514, Start Num: 52

Candidate Starts for Soile_57:

(8, 49245), (12, 49086), (14, 49041), (17, 49011), (Start: 51 @48885 has 152 MA's), (Start: 52 @48882 has 94 MA's), (64, 48843), (77, 48762), (92, 48600), (94, 48597), (105, 48546),

Gene: Solosis_55 Start: 48358, Stop: 47987, Start Num: 51

Candidate Starts for Solosis_55:

(12, 48559), (14, 48514), (17, 48484), (33, 48397), (Start: 51 @48358 has 152 MA's), (Start: 52 @48355 has 94 MA's), (64, 48316), (76, 48244), (92, 48073), (94, 48070), (105, 48019),

Gene: Sophia_55 Start: 48352, Stop: 47981, Start Num: 51

Candidate Starts for Sophia_55:

(12, 48553), (14, 48508), (17, 48478), (Start: 51 @48352 has 152 MA's), (Start: 52 @48349 has 94 MA's), (64, 48310), (76, 48238), (92, 48067), (94, 48064), (105, 48013),

Gene: Soto_54 Start: 47677, Stop: 47306, Start Num: 51

Candidate Starts for Soto_54:

(12, 47878), (14, 47833), (17, 47803), (33, 47716), (Start: 51 @47677 has 152 MA's), (Start: 52 @47674 has 94 MA's), (64, 47635), (77, 47554), (92, 47392), (94, 47389), (105, 47338),

Gene: Spartan300_55 Start: 48336, Stop: 47965, Start Num: 51

Candidate Starts for Spartan300_55:

(9, 48681), (12, 48537), (14, 48492), (17, 48462), (33, 48375), (Start: 51 @48336 has 152 MA's), (Start: 52 @48333 has 94 MA's), (77, 48213), (92, 48051), (94, 48048), (105, 47997),

Gene: Spec_24 Start: 8156, Stop: 8512, Start Num: 48

Candidate Starts for Spec_24:

(Start: 48 @8156 has 173 MA's), (78, 8270), (89, 8363), (105, 8459),

Gene: Specks_31 Start: 9988, Stop: 10344, Start Num: 48

Candidate Starts for Specks_31:

(Start: 48 @9988 has 173 MA's), (78, 10102), (89, 10195), (105, 10291),

Gene: Sprinklers_26 Start: 8191, Stop: 8547, Start Num: 48

Candidate Starts for Sprinklers_26:

(Start: 48 @8191 has 173 MA's), (89, 8398), (105, 8494),

Gene: Spud_28 Start: 9548, Stop: 9904, Start Num: 48

Candidate Starts for Spud_28:

(Start: 48 @9548 has 173 MA's), (78, 9662), (89, 9755), (105, 9851),

Gene: Squid_56 Start: 48364, Stop: 47993, Start Num: 51

Candidate Starts for Squid_56:

(12, 48565), (14, 48520), (17, 48490), (33, 48403), (Start: 51 @48364 has 152 MA's), (Start: 52 @48361 has 94 MA's), (64, 48322), (76, 48250), (92, 48079), (94, 48076), (105, 48025),

Gene: Squiggle_57 Start: 48369, Stop: 48001, Start Num: 52

Candidate Starts for Squiggle_57:

(12, 48573), (14, 48528), (17, 48498), (Start: 51 @48372 has 152 MA's), (Start: 52 @48369 has 94 MA's), (64, 48330), (77, 48249), (92, 48087), (94, 48084), (105, 48033),

Gene: SrishMeg2525_25 Start: 8416, Stop: 8772, Start Num: 48

Candidate Starts for SrishMeg2525_25:

(Start: 48 @8416 has 173 MA's), (78, 8530), (89, 8623), (105, 8719),

Gene: StephanieG_26 Start: 8882, Stop: 9238, Start Num: 48

Candidate Starts for StephanieG_26:

(Start: 48 @8882 has 173 MA's), (78, 8996), (89, 9089), (105, 9185),

Gene: Strobilo_42 Start: 31471, Stop: 31088, Start Num: 37

Candidate Starts for Strobilo_42:

(Start: 37 @31471 has 9 MA's), (75, 31348), (82, 31297), (89, 31240), (95, 31168), (105, 31123), (110, 31099),

Gene: Struggle_56 Start: 48201, Stop: 47830, Start Num: 51

Candidate Starts for Struggle_56:

(8, 48561), (12, 48402), (14, 48357), (17, 48327), (Start: 51 @48201 has 152 MA's), (Start: 52 @48198 has 94 MA's), (64, 48159), (69, 48141), (76, 48087), (92, 47916), (94, 47913), (105, 47862),

Gene: Stubby_24 Start: 7962, Stop: 8318, Start Num: 48

Candidate Starts for Stubby_24:

(Start: 48 @7962 has 173 MA's), (89, 8169), (105, 8265),

Gene: StubbySaigey_25 Start: 7342, Stop: 7698, Start Num: 48

Candidate Starts for StubbySaigey_25:

(Start: 48 @7342 has 173 MA's), (89, 7549), (105, 7645),

Gene: Suffolk_54 Start: 47667, Stop: 47296, Start Num: 51

Candidate Starts for Suffolk_54:

(12, 47868), (14, 47823), (17, 47793), (33, 47706), (Start: 51 @47667 has 152 MA's), (Start: 52 @47664 has 94 MA's), (64, 47625), (77, 47544), (92, 47382), (94, 47379), (105, 47328),

Gene: Sunflower1121_79 Start: 50131, Stop: 50514, Start Num: 30

Candidate Starts for Sunflower1121_79:

(Start: 30 @50131 has 18 MA's), (41, 50152), (67, 50206), (80, 50278), (84, 50317), (89, 50353), (91, 50389), (102, 50446), (104, 50455),

Gene: Surely_56 Start: 48654, Stop: 48283, Start Num: 51

Candidate Starts for Surely_56:

(12, 48855), (14, 48810), (17, 48780), (33, 48693), (Start: 51 @48654 has 152 MA's), (Start: 52 @48651 has 94 MA's), (64, 48612), (76, 48540), (92, 48369), (94, 48366), (105, 48315),

Gene: SweetiePie_36 Start: 27324, Stop: 27707, Start Num: 45

Candidate Starts for SweetiePie_36:

(Start: 45 @27324 has 40 MA's), (74, 27408), (87, 27516), (91, 27567), (92, 27597), (113, 27684),

Gene: Swiphy_58 Start: 48655, Stop: 48284, Start Num: 51

Candidate Starts for Swiphy_58:

(8, 49015), (12, 48856), (14, 48811), (17, 48781), (33, 48694), (Start: 51 @48655 has 152 MA's), (Start: 52 @48652 has 94 MA's), (77, 48532), (92, 48370), (94, 48367), (105, 48316),

Gene: Swish_57 Start: 48316, Stop: 47948, Start Num: 52

Candidate Starts for Swish_57:

(12, 48520), (14, 48475), (17, 48445), (Start: 51 @48319 has 152 MA's), (Start: 52 @48316 has 94 MA's), (64, 48277), (77, 48196), (92, 48034), (94, 48031), (105, 47980),

Gene: Syra333_77 Start: 49859, Stop: 50242, Start Num: 30

Candidate Starts for Syra333_77:

(Start: 30 @49859 has 18 MA's), (32, 49865), (41, 49880), (47, 49886), (63, 49919), (67, 49934), (80, 50006), (84, 50045), (89, 50081), (91, 50117), (102, 50174), (104, 50183), (114, 50237),

Gene: TBond007_71 Start: 49524, Stop: 49919, Start Num: 30

Candidate Starts for TBond007_71:

(Start: 30 @49524 has 18 MA's), (Start: 48 @49560 has 173 MA's), (63, 49596), (87, 49743), (89, 49758), (91, 49794), (113, 49911),

Gene: TClif_75 Start: 49609, Stop: 49980, Start Num: 30

Candidate Starts for TClif_75:

(Start: 30 @49609 has 18 MA's), (63, 49660), (80, 49744), (89, 49819), (102, 49912), (104, 49921),

Gene: TM4_93 Start: 31140, Stop: 30757, Start Num: 37

Candidate Starts for TM4_93:

(Start: 37 @31140 has 9 MA's), (63, 31080), (75, 31017), (82, 30966), (86, 30930), (89, 30909), (95, 30837), (105, 30792),

Gene: TallGrassMM_56 Start: 48268, Stop: 47897, Start Num: 51

Candidate Starts for TallGrassMM_56:

(12, 48469), (14, 48424), (17, 48394), (33, 48307), (Start: 51 @48268 has 152 MA's), (Start: 52 @48265 has 94 MA's), (64, 48226), (76, 48154), (92, 47983), (94, 47980), (105, 47929),

Gene: Taptic_44 Start: 40128, Stop: 40529, Start Num: 31

Candidate Starts for Taptic_44:

(Start: 31 @40128 has 8 MA's), (Start: 38 @40143 has 3 MA's), (86, 40359), (87, 40365), (89, 40380), (99, 40440), (103, 40458), (104, 40461), (105, 40476), (114, 40515), (115, 40518),

Gene: TarsusIV_35 Start: 27299, Stop: 27697, Start Num: 45

Candidate Starts for TarsusIV_35:

(Start: 45 @27299 has 40 MA's), (89, 27521), (91, 27557), (92, 27587), (100, 27611), (104, 27626), (115, 27683),

Gene: Teardrop_25 Start: 7615, Stop: 7971, Start Num: 48

Candidate Starts for Teardrop_25:

(Start: 48 @7615 has 173 MA's), (89, 7822), (105, 7918),

Gene: Telesworld_54 Start: 48431, Stop: 48060, Start Num: 51

Candidate Starts for Telesworld_54:

(12, 48632), (14, 48587), (17, 48557), (33, 48470), (Start: 51 @48431 has 152 MA's), (Start: 52 @48428 has 94 MA's), (64, 48389), (76, 48317), (92, 48146), (94, 48143), (105, 48092),

Gene: Thora_56 Start: 48650, Stop: 48279, Start Num: 51

Candidate Starts for Thora_56:

(12, 48851), (14, 48806), (17, 48776), (Start: 51 @48650 has 152 MA's), (Start: 52 @48647 has 94 MA's), (64, 48608), (77, 48527), (92, 48365), (94, 48362), (105, 48311),

Gene: ThreeOh3D2_57 Start: 48870, Stop: 48499, Start Num: 51

Candidate Starts for ThreeOh3D2_57:

(12, 49071), (14, 49026), (17, 48996), (Start: 51 @48870 has 152 MA's), (Start: 52 @48867 has 94 MA's), (64, 48828), (77, 48747), (92, 48585), (94, 48582), (105, 48531),

Gene: Thumb_72 Start: 52173, Stop: 52541, Start Num: 48

Candidate Starts for Thumb_72:

(Start: 48 @52173 has 173 MA's), (60, 52200), (64, 52212), (74, 52260), (75, 52275), (92, 52437), (104, 52473), (106, 52491),

Gene: Timmi_55 Start: 48350, Stop: 47982, Start Num: 52

Candidate Starts for Timmi_55:

(12, 48554), (14, 48509), (17, 48479), (Start: 51 @48353 has 152 MA's), (Start: 52 @48350 has 94 MA's), (64, 48311), (76, 48239), (92, 48068), (94, 48065), (105, 48014),

Gene: TinyTim_26 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for TinyTim_26:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: TomBombadil_56 Start: 48638, Stop: 48267, Start Num: 51

Candidate Starts for TomBombadil_56:

(12, 48839), (14, 48794), (17, 48764), (33, 48677), (Start: 51 @48638 has 152 MA's), (Start: 52 @48635 has 94 MA's), (64, 48596), (76, 48524), (92, 48353), (94, 48350), (105, 48299),

Gene: Tomlarah_57 Start: 49162, Stop: 48794, Start Num: 52

Candidate Starts for Tomlarah_57:

(12, 49366), (14, 49321), (17, 49291), (Start: 51 @49165 has 152 MA's), (Start: 52 @49162 has 94 MA's), (64, 49123), (77, 49042), (92, 48880), (94, 48877), (105, 48826),

Gene: Toni_55 Start: 48315, Stop: 47944, Start Num: 51

Candidate Starts for Toni_55:

(12, 48516), (14, 48471), (17, 48441), (Start: 51 @48315 has 152 MA's), (Start: 52 @48312 has 94 MA's), (64, 48273), (77, 48192), (92, 48030), (94, 48027), (105, 47976),

Gene: Tooj_54 Start: 47781, Stop: 47410, Start Num: 51

Candidate Starts for Tooj_54:

(12, 47982), (14, 47937), (17, 47907), (33, 47820), (Start: 51 @47781 has 152 MA's), (Start: 52 @47778 has 94 MA's), (64, 47739), (76, 47667), (77, 47658), (92, 47496), (94, 47493), (105, 47442),

Gene: Tortoise16_25 Start: 8150, Stop: 8506, Start Num: 48

Candidate Starts for Tortoise16_25:

(Start: 48 @8150 has 173 MA's), (78, 8264), (89, 8357), (105, 8453),

Gene: Trinitium_25 Start: 7591, Stop: 7947, Start Num: 48

Candidate Starts for Trinitium_25:

(Start: 48 @7591 has 173 MA's), (89, 7798), (105, 7894),

Gene: Trooper_37 Start: 27533, Stop: 27931, Start Num: 45

Candidate Starts for Trooper_37:

(Start: 45 @27533 has 40 MA's), (Start: 55 @27560 has 2 MA's), (64, 27581), (81, 27683), (89, 27755), (91, 27791), (92, 27821), (97, 27833), (100, 27845), (115, 27917),

Gene: True_55 Start: 48318, Stop: 47950, Start Num: 52

Candidate Starts for True_55:

(12, 48522), (14, 48477), (17, 48447), (Start: 51 @48321 has 152 MA's), (Start: 52 @48318 has 94 MA's), (64, 48279), (77, 48198), (92, 48036), (94, 48033), (105, 47982),

Gene: Trypo_58 Start: 48787, Stop: 48416, Start Num: 51

Candidate Starts for Trypo_58:

(8, 49147), (12, 48988), (14, 48943), (17, 48913), (Start: 51 @48787 has 152 MA's), (Start: 52 @48784 has 94 MA's), (64, 48745), (69, 48727), (76, 48673), (77, 48664), (92, 48502), (94, 48499), (105, 48448),

Gene: Turbido_36 Start: 27512, Stop: 27892, Start Num: 45

Candidate Starts for Turbido_36:

(Start: 45 @27512 has 40 MA's), (74, 27593), (87, 27701), (92, 27782), (113, 27869),

Gene: Turret_24 Start: 7330, Stop: 7686, Start Num: 48

Candidate Starts for Turret_24:

(Start: 48 @7330 has 173 MA's), (89, 7537), (105, 7633),

Gene: Tyke_28 Start: 9562, Stop: 9918, Start Num: 48

Candidate Starts for Tyke_28:

(Start: 48 @9562 has 173 MA's), (78, 9676), (89, 9769), (105, 9865),

Gene: Typha_103 Start: 64758, Stop: 65096, Start Num: 55

Candidate Starts for Typha_103:

(Start: 55 @64758 has 2 MA's), (59, 64770), (70, 64809), (71, 64812), (90, 64968),

Gene: TyrionL_56 Start: 48209, Stop: 47841, Start Num: 52

Candidate Starts for TyrionL_56:

(8, 48572), (12, 48413), (14, 48368), (17, 48338), (Start: 51 @48212 has 152 MA's), (Start: 52 @48209 has 94 MA's), (64, 48170), (69, 48152), (76, 48098), (77, 48089), (92, 47927), (94, 47924), (105, 47873),

Gene: UAch1_55 Start: 48387, Stop: 48019, Start Num: 52

Candidate Starts for UAch1_55:

(12, 48591), (14, 48546), (17, 48516), (33, 48429), (Start: 51 @48390 has 152 MA's), (Start: 52 @48387 has 94 MA's), (64, 48348), (76, 48276), (92, 48105), (94, 48102), (105, 48051),

Gene: Ubuntu_43 Start: 33292, Stop: 32891, Start Num: 38

Candidate Starts for Ubuntu_43:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: UncleHowie_55 Start: 48065, Stop: 47694, Start Num: 51

Candidate Starts for UncleHowie_55:

(12, 48266), (14, 48221), (17, 48191), (Start: 51 @48065 has 152 MA's), (Start: 52 @48062 has 94 MA's), (64, 48023), (77, 47942), (92, 47780), (94, 47777), (105, 47726),

Gene: Updawg_37 Start: 27705, Stop: 28100, Start Num: 45
Candidate Starts for Updawg_37:
(Start: 45 @27705 has 40 MA's), (91, 27963), (92, 27993), (104, 28029),

Gene: Usavi_56 Start: 48730, Stop: 48362, Start Num: 52
Candidate Starts for Usavi_56:
(12, 48934), (14, 48889), (17, 48859), (Start: 51 @48733 has 152 MA's), (Start: 52 @48730 has 94 MA's), (64, 48691), (77, 48610), (92, 48448), (94, 48445), (105, 48394),

Gene: Vaishali24_54 Start: 48025, Stop: 47654, Start Num: 51
Candidate Starts for Vaishali24_54:
(12, 48226), (14, 48181), (17, 48151), (33, 48064), (Start: 51 @48025 has 152 MA's), (Start: 52 @48022 has 94 MA's), (64, 47983), (76, 47911), (77, 47902), (92, 47740), (94, 47737), (105, 47686),

Gene: Valjean_55 Start: 48346, Stop: 47975, Start Num: 51
Candidate Starts for Valjean_55:
(9, 48691), (12, 48547), (14, 48502), (17, 48472), (33, 48385), (Start: 51 @48346 has 152 MA's), (Start: 52 @48343 has 94 MA's), (77, 48223), (92, 48061), (94, 48058), (105, 48007),

Gene: ValleyTerrace_26 Start: 8154, Stop: 8510, Start Num: 48
Candidate Starts for ValleyTerrace_26:
(Start: 48 @8154 has 173 MA's), (78, 8268), (89, 8361), (105, 8457),

Gene: Vaticameos_53 Start: 46856, Stop: 46485, Start Num: 51
Candidate Starts for Vaticameos_53:
(12, 47057), (14, 47012), (17, 46982), (Start: 51 @46856 has 152 MA's), (Start: 52 @46853 has 94 MA's), (64, 46814), (77, 46733), (92, 46571), (94, 46568), (105, 46517),

Gene: Veritas_57 Start: 48481, Stop: 48110, Start Num: 51
Candidate Starts for Veritas_57:
(12, 48682), (14, 48637), (17, 48607), (33, 48520), (Start: 51 @48481 has 152 MA's), (Start: 52 @48478 has 94 MA's), (64, 48439), (76, 48367), (92, 48196), (94, 48193), (105, 48142),

Gene: Virapocalypse_57 Start: 48643, Stop: 48275, Start Num: 52
Candidate Starts for Virapocalypse_57:
(8, 49006), (12, 48847), (14, 48802), (17, 48772), (Start: 51 @48646 has 152 MA's), (Start: 52 @48643 has 94 MA's), (64, 48604), (69, 48586), (76, 48532), (77, 48523), (92, 48361), (94, 48358), (105, 48307),

Gene: Virgeve_55 Start: 48083, Stop: 47712, Start Num: 51
Candidate Starts for Virgeve_55:
(8, 48443), (12, 48284), (14, 48239), (17, 48209), (33, 48122), (Start: 51 @48083 has 152 MA's), (Start: 52 @48080 has 94 MA's), (77, 47960), (92, 47798), (94, 47795), (105, 47744),

Gene: Vista_55 Start: 48366, Stop: 47995, Start Num: 51
Candidate Starts for Vista_55:
(12, 48567), (14, 48522), (17, 48492), (Start: 51 @48366 has 152 MA's), (Start: 52 @48363 has 94 MA's), (64, 48324), (77, 48243), (92, 48081), (94, 48078), (105, 48027),

Gene: Vivaldi_57 Start: 48512, Stop: 48144, Start Num: 52
Candidate Starts for Vivaldi_57:
(12, 48716), (14, 48671), (17, 48641), (33, 48554), (Start: 51 @48515 has 152 MA's), (Start: 52 @48512 has 94 MA's), (64, 48473), (76, 48401), (77, 48392), (92, 48230), (94, 48227), (105, 48176),

Gene: Vortex_56 Start: 48348, Stop: 47977, Start Num: 51

Candidate Starts for Vortex_56:

(12, 48549), (14, 48504), (17, 48474), (Start: 51 @48348 has 152 MA's), (Start: 52 @48345 has 94 MA's), (64, 48306), (76, 48234), (92, 48063), (94, 48060), (105, 48009),

Gene: WaldoWhy_58 Start: 42785, Stop: 43165, Start Num: 44

Candidate Starts for WaldoWhy_58:

(Start: 44 @42785 has 5 MA's), (59, 42818), (60, 42821), (61, 42824), (73, 42878), (74, 42881), (88, 43001), (105, 43112), (106, 43115),

Gene: Wallhey_56 Start: 48216, Stop: 47845, Start Num: 51

Candidate Starts for Wallhey_56:

(8, 48576), (12, 48417), (14, 48372), (17, 48342), (Start: 51 @48216 has 152 MA's), (Start: 52 @48213 has 94 MA's), (64, 48174), (69, 48156), (76, 48102), (77, 48093), (92, 47931), (94, 47928), (105, 47877),

Gene: Wally_25 Start: 7577, Stop: 7933, Start Num: 48

Candidate Starts for Wally_25:

(Start: 48 @7577 has 173 MA's), (78, 7691), (89, 7784), (105, 7880),

Gene: Waterdiva_56 Start: 48724, Stop: 48356, Start Num: 52

Candidate Starts for Waterdiva_56:

(12, 48928), (14, 48883), (17, 48853), (Start: 51 @48727 has 152 MA's), (Start: 52 @48724 has 94 MA's), (64, 48685), (77, 48604), (92, 48442), (94, 48439), (105, 48388),

Gene: Webster2_43 Start: 33292, Stop: 32891, Start Num: 38

Candidate Starts for Webster2_43:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: Weher20_56 Start: 49168, Stop: 48800, Start Num: 52

Candidate Starts for Weher20_56:

(12, 49372), (14, 49327), (17, 49297), (Start: 51 @49171 has 152 MA's), (Start: 52 @49168 has 94 MA's), (64, 49129), (77, 49048), (92, 48886), (94, 48883), (105, 48832),

Gene: WeiHuaDA_41 Start: 28941, Stop: 29318, Start Num: 45

Candidate Starts for WeiHuaDA_41:

(Start: 45 @28941 has 40 MA's), (59, 28974), (91, 29181), (92, 29211), (95, 29217), (104, 29247),

Gene: Weirido19_40 Start: 31397, Stop: 31011, Start Num: 33

Candidate Starts for Weirido19_40:

(33, 31397), (58, 31340), (66, 31313), (67, 31310), (75, 31256), (76, 31253), (83, 31202), (84, 31184), (89, 31148), (90, 31142), (104, 31064), (106, 31046), (111, 31022), (112, 31016),

Gene: Weiss13_55 Start: 42405, Stop: 42806, Start Num: 36

Candidate Starts for Weiss13_55:

(Start: 36 @42405 has 1 MA's), (Start: 43 @42417 has 2 MA's), (Start: 48 @42429 has 173 MA's), (53, 42441), (Start: 56 @42450 has 3 MA's), (72, 42501), (85, 42615), (89, 42645), (103, 42735), (104, 42738),

Gene: Whabigail7_36 Start: 27500, Stop: 27880, Start Num: 45

Candidate Starts for Whabigail7_36:

(Start: 45 @27500 has 40 MA's), (74, 27581), (87, 27689), (91, 27740), (92, 27770), (113, 27857),

Gene: WideWale_37 Start: 27705, Stop: 28100, Start Num: 45

Candidate Starts for WideWale_37:

(Start: 45 @27705 has 40 MA's), (91, 27963), (92, 27993), (104, 28029),

Gene: Willis_26 Start: 8594, Stop: 8950, Start Num: 48

Candidate Starts for Willis_26:

(Start: 48 @8594 has 173 MA's), (89, 8801), (105, 8897),

Gene: Windsor_56 Start: 48871, Stop: 48500, Start Num: 51

Candidate Starts for Windsor_56:

(12, 49072), (14, 49027), (17, 48997), (Start: 51 @48871 has 152 MA's), (Start: 52 @48868 has 94 MA's), (64, 48829), (77, 48748), (92, 48586), (94, 48583), (105, 48532),

Gene: Wishmaker_41 Start: 33409, Stop: 32891, Start Num: 15

Candidate Starts for Wishmaker_41:

(Start: 15 @33409 has 4 MA's), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 3 MA's), (Start: 56 @33250 has 3 MA's), (57, 33247), (65, 33226), (70, 33205), (74, 33175), (86, 33073), (104, 32959), (105, 32944), (106, 32941), (110, 32920), (116, 32899),

Gene: Xavier_55 Start: 48355, Stop: 47984, Start Num: 51

Candidate Starts for Xavier_55:

(12, 48556), (14, 48511), (17, 48481), (Start: 51 @48355 has 152 MA's), (Start: 52 @48352 has 94 MA's), (64, 48313), (76, 48241), (92, 48070), (94, 48067), (105, 48016),

Gene: Ximenita_79 Start: 50183, Stop: 50566, Start Num: 30

Candidate Starts for Ximenita_79:

(Start: 30 @50183 has 18 MA's), (32, 50189), (41, 50204), (47, 50210), (63, 50243), (67, 50258), (80, 50330), (84, 50369), (89, 50405), (91, 50441), (102, 50498), (104, 50507), (114, 50561),

Gene: Yassified_23 Start: 7354, Stop: 7710, Start Num: 48

Candidate Starts for Yassified_23:

(Start: 48 @7354 has 173 MA's), (89, 7561), (105, 7657),

Gene: Yelo_55 Start: 42715, Stop: 43185, Start Num: 18

Candidate Starts for Yelo_55:

(Start: 18 @42715 has 5 MA's), (Start: 26 @42754 has 1 MA's), (Start: 36 @42784 has 1 MA's), (Start: 43 @42796 has 2 MA's), (Start: 48 @42808 has 173 MA's), (54, 42823), (Start: 56 @42829 has 3 MA's), (72, 42880), (85, 42994), (89, 43024), (103, 43114), (104, 43117), (105, 43132),

Gene: YemiJoy2021_27 Start: 8699, Stop: 9055, Start Num: 48

Candidate Starts for YemiJoy2021_27:

(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),

Gene: Yoshand_57 Start: 48332, Stop: 47961, Start Num: 51

Candidate Starts for Yoshand_57:

(12, 48533), (14, 48488), (17, 48458), (Start: 51 @48332 has 152 MA's), (Start: 52 @48329 has 94 MA's), (64, 48290), (77, 48209), (92, 48047), (94, 48044), (105, 47993),

Gene: YouGoGlencoco_57 Start: 48650, Stop: 48279, Start Num: 51

Candidate Starts for YouGoGlencoco_57:

(12, 48851), (14, 48806), (17, 48776), (Start: 51 @48650 has 152 MA's), (Start: 52 @48647 has 94 MA's), (64, 48608), (69, 48590), (76, 48536), (77, 48527), (92, 48365), (94, 48362), (105, 48311),

Gene: YoungMoneyMata_26 Start: 7905, Stop: 8261, Start Num: 48
Candidate Starts for YoungMoneyMata_26:
(Start: 48 @7905 has 173 MA's), (78, 8019), (89, 8112), (105, 8208),

Gene: Yucca_26 Start: 8621, Stop: 8977, Start Num: 48
Candidate Starts for Yucca_26:
(Start: 48 @8621 has 173 MA's), (89, 8828), (105, 8924),

Gene: Zaider_56 Start: 48590, Stop: 48219, Start Num: 51
Candidate Starts for Zaider_56:
(9, 48935), (12, 48791), (14, 48746), (17, 48716), (33, 48629), (Start: 51 @48590 has 152 MA's),
(Start: 52 @48587 has 94 MA's), (77, 48467), (92, 48305), (94, 48302), (105, 48251),

Gene: Zalkecks_28 Start: 8703, Stop: 9059, Start Num: 48
Candidate Starts for Zalkecks_28:
(11, 8466), (Start: 48 @8703 has 173 MA's), (89, 8910), (105, 9006),

Gene: Zeenon_28 Start: 8691, Stop: 9047, Start Num: 48
Candidate Starts for Zeenon_28:
(Start: 48 @8691 has 173 MA's), (78, 8805), (89, 8898), (105, 8994),

Gene: Zelda_56 Start: 48692, Stop: 48321, Start Num: 51
Candidate Starts for Zelda_56:
(12, 48893), (14, 48848), (17, 48818), (Start: 51 @48692 has 152 MA's), (Start: 52 @48689 has 94 MA's), (64, 48650), (77, 48569), (92, 48407), (94, 48404), (105, 48353),

Gene: Zenon_56 Start: 42661, Stop: 43131, Start Num: 18
Candidate Starts for Zenon_56:
(Start: 18 @42661 has 5 MA's), (Start: 26 @42700 has 1 MA's), (Start: 36 @42730 has 1 MA's), (Start: 43 @42742 has 2 MA's), (Start: 48 @42754 has 173 MA's), (54, 42769), (Start: 56 @42775 has 3 MA's), (72, 42826), (85, 42940), (89, 42970), (103, 43060), (104, 43063), (105, 43078),

Gene: ZoeJ_39 Start: 31158, Stop: 30775, Start Num: 37
Candidate Starts for ZoeJ_39:
(35, 31161), (Start: 37 @31158 has 9 MA's), (63, 31098), (68, 31080), (75, 31035), (86, 30948), (89, 30927), (95, 30855), (105, 30810),

Gene: Zonia_57 Start: 48664, Stop: 48296, Start Num: 52
Candidate Starts for Zonia_57:
(8, 49027), (12, 48868), (14, 48823), (17, 48793), (Start: 51 @48667 has 152 MA's), (Start: 52 @48664 has 94 MA's), (64, 48625), (69, 48607), (76, 48553), (77, 48544), (92, 48382), (94, 48379), (105, 48328),

Gene: ZygoTaiga_26 Start: 8699, Stop: 9055, Start Num: 48
Candidate Starts for ZygoTaiga_26:
(Start: 48 @8699 has 173 MA's), (89, 8906), (105, 9002),