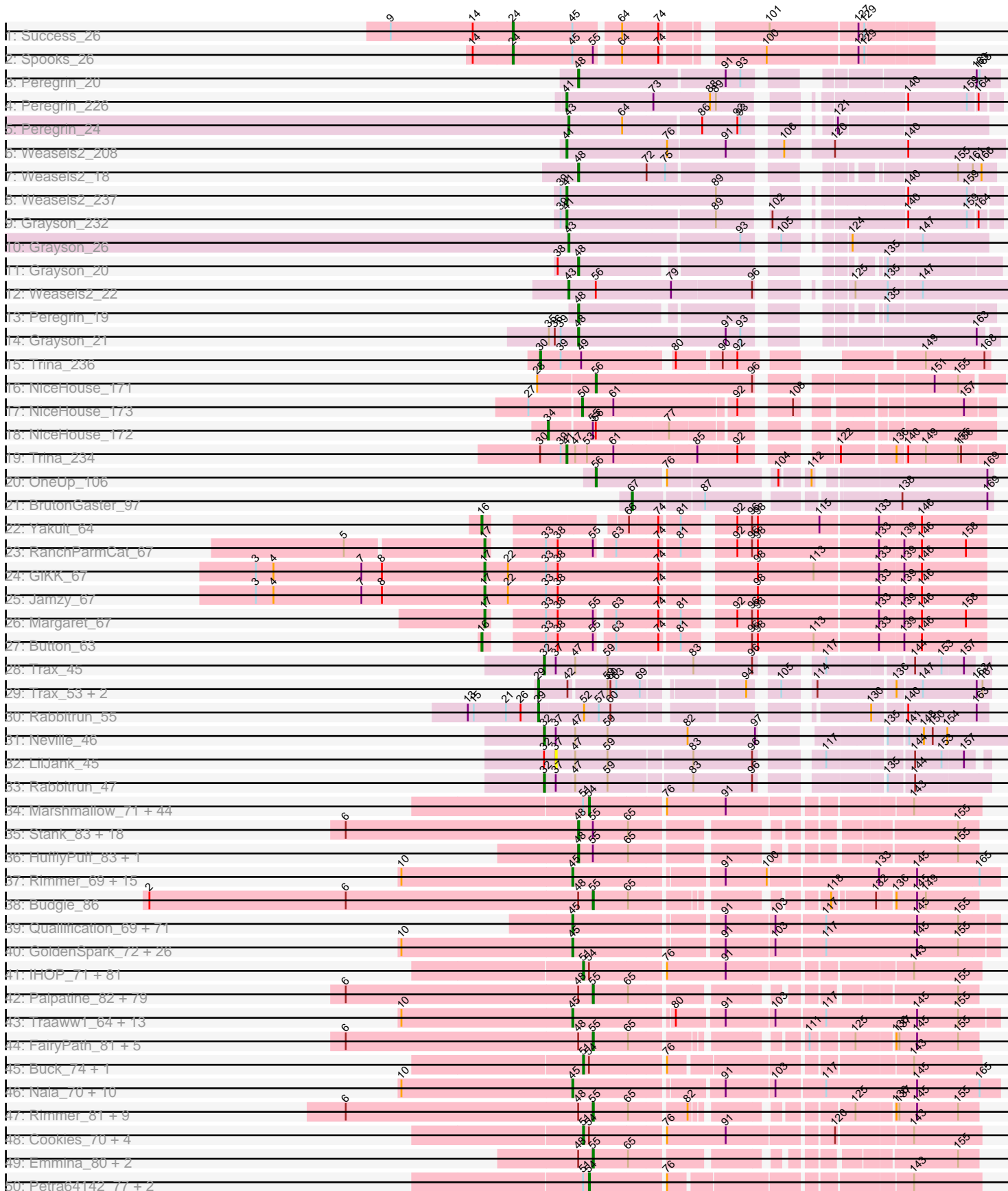
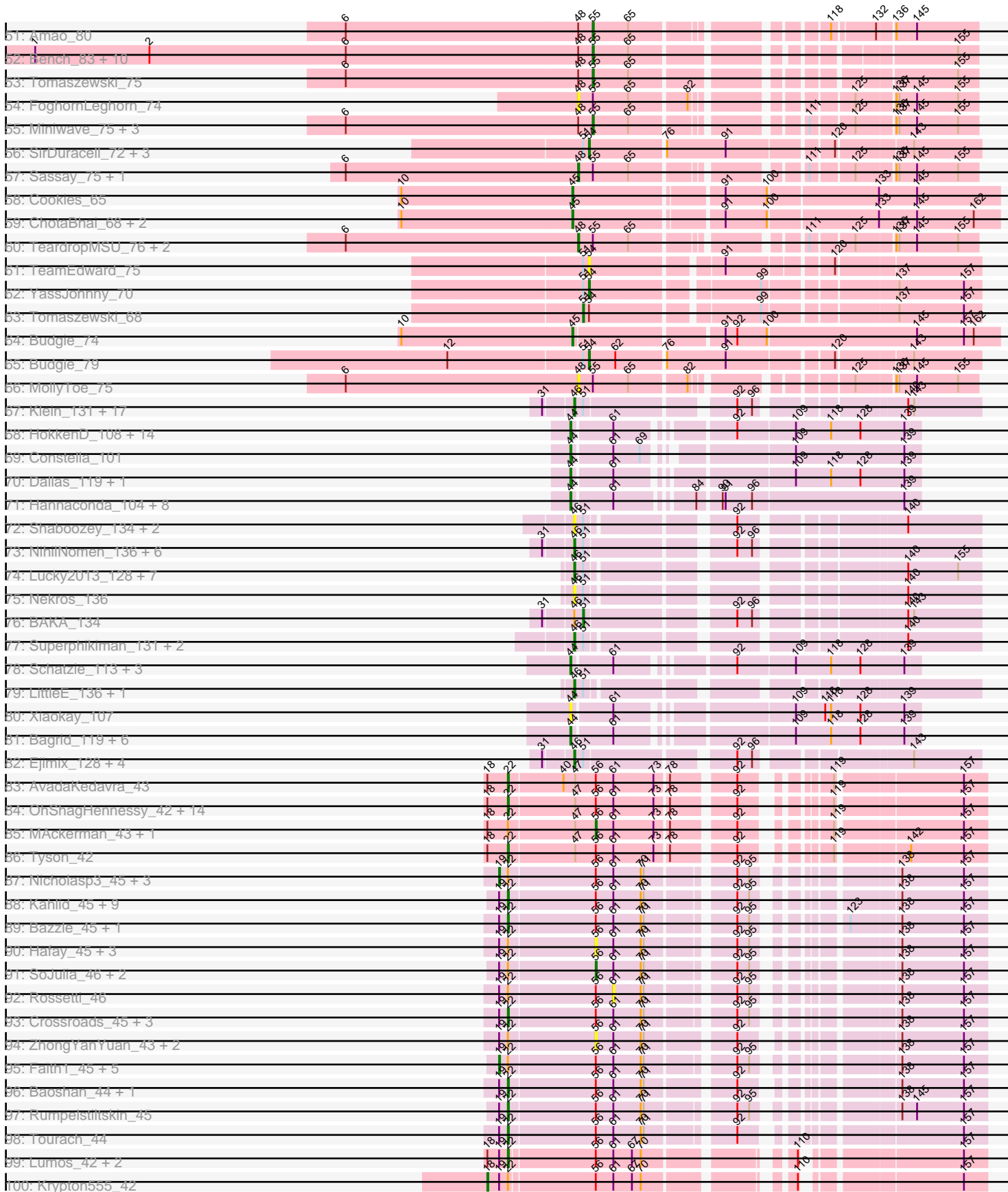


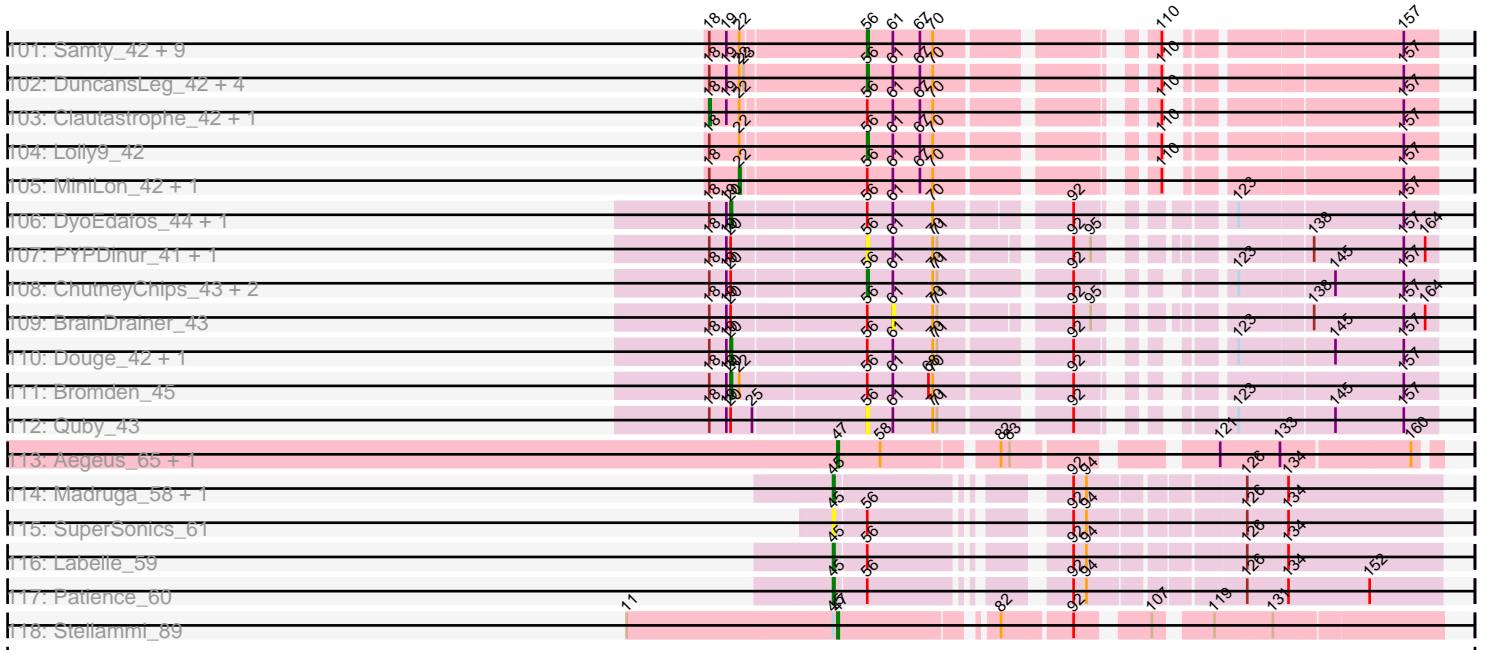
Pham 304576



Pham 304576



Pham 304576



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 304576 Report

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

Pham number 304576 has 661 members, 84 are drafts.

Phages represented in each track:

- Track 1 : Success_26
- Track 2 : Spooks_26
- Track 3 : Peregrin_20
- Track 4 : Peregrin_226
- Track 5 : Peregrin_24
- Track 6 : Weasels2_208
- Track 7 : Weasels2_18
- Track 8 : Weasels2_237
- Track 9 : Grayson_232
- Track 10 : Grayson_26
- Track 11 : Grayson_20
- Track 12 : Weasels2_22
- Track 13 : Peregrin_19
- Track 14 : Grayson_21
- Track 15 : Trina_236
- Track 16 : NiceHouse_171
- Track 17 : NiceHouse_173
- Track 18 : NiceHouse_172
- Track 19 : Trina_234
- Track 20 : OneUp_106
- Track 21 : BrutonGaster_97
- Track 22 : Yakult_64
- Track 23 : RanchParmCat_67
- Track 24 : GiKK_67
- Track 25 : Jamzy_67
- Track 26 : Margaret_67
- Track 27 : Button_63
- Track 28 : Trax_45
- Track 29 : Trax_53, Neville_54, LilJank_52
- Track 30 : Rabbitrun_55
- Track 31 : Neville_46
- Track 32 : LilJank_45
- Track 33 : Rabbitrun_47
- Track 34 : Marshmallow_71, Bogg_73, Teaspoon_74, Nala_75, PaddyBaddy_73, Sassay_68, Greep_77, Thresher_75, Murica_76, 244_74, Nimrod_74, FoghornLeghorn_67, Becksu_72, Command613_75, StellaBean_71, Kostya_73, GoldenSpark_77, Youngblood_76, Icee_74, Balomoji_73, Dumbo_73, Simpliphy_72,

NelitzaMV_71, Eureka_71, Liveloughbron_75, Goldilocks_76, Terminus_76,
 CrystalP_72, Cjw1_73, BugsBunny_73, NonchalantPear_73, Daikon_75, Filch_74,
 Easy2Say_74, Porky_72, Pumpkin_76, Amao_73, Elph10_73, Murphy_73,
 Maxxinista_75, MadamMonkfish_73, Wiggin_75, FireRed_77, Thimble_74, Willez_68
 • Track 35 : Stank_83, Marshmallow_78, BugsBunny_80, Cjw1_80, Kostya_80,
 Eureka_78, Bogg_80, Daikon_82, Elph10_80, DrDrey_80, Adnama_84,
 NelitzaMV_78, Goku_78, Bruin_77, GoldenSpark_84, MISSy_81, Command613_82,
 ABCat_77, Dumbo_80
 • Track 36 : HufflyPuff_83, Porky_79
 • Track 37 : Rimmer_69, FoghornLeghorn_62, Sassay_63, Harella_68, Bask21_68,
 Petra64142_72, SirDuracell_67, MollyToe_63, YassJohnny_65, StormChicken_70,
 Buck_69, Glexan_67, TeamEdward_70, Tomaszewski_63, DoctorDiddles_67,
 Willez_63
 • Track 38 : Budgie_86
 • Track 39 : Quallification_69, Miniwave_63, IHOP_66, Icee_69, Greep_72,
 Thresher_70, Kanye_65, Murica_71, Murphy_68, Pharsalus_65, Czyszczonek_69,
 BadStone_65, Gator_66, HufflyPuff_71, Stark_69, Paperbeatsrock_67, Tarkin_67,
 Rakim_69, ABCat_65, Hopey_68, Phaux_70, NelitzaMV_66, Marshmallow_66,
 BigBubba_68, Bogg_68, Tuco_69, Lilpickle_67, PhatBacter_72, Goku_66,
 Ptowny_65, Flypotenuse_64, OrionPax_67, Lilac_70, StellaBean_66,
 RiverMonster_68, Manda_68, Sotrice96_69, Ukulele_63, Cactus_71, Elph10_68,
 Kostya_68, SophKB_65, Elite2014_67, ChosenOne_68, Balomoji_68, Dusk_65,
 DrDrey_68, Palpatine_70, Simpliphy_67, Policronamos_71, Saints25_67,
 Liveloughbron_70, PaddyBaddy_68, ShereKhan_67, Highbury_67, NoSleep_69,
 Daikon_70, TeardropMSU_64, Dumbo_68, Pumpkin_71, xkcd_71, Eureka_66,
 244_69, Maxxinista_70, Phrux_65, Phaja_66, Cjw1_68, HanKaySha_68,
 BugsBunny_68, Myrale_68, Xandras_67, Filch_69
 • Track 40 : GoldenSpark_72, Porky_67, FairyPath_69, Gemini_73, Gage_70,
 Emmina_68, TBrady12_71, Thimble_69, Youngblood_71, Lilizi_69, Brewer_64,
 BaboJay_65, Inca_65, MadamMonkfish_68, NonchalantPear_68, Argent26_72,
 Hoonter_71, GooberAzure_71, Goldilocks_71, Bench_71, Kimchi_72, JeTaime_68,
 StolenFromERC_71, AmericanBeauty_72, Command613_70, Teaspoon_69, Holt_73
 • Track 41 : IHOP_71, Traaww1_69, Miniwave_68, Highbury_72, NoSleep_74,
 Glexan_72, Lilizi_74, Inca_70, Gemini_78, MISSy_74, Moldemort_76, Gage_75,
 Phaja_71, Mosby_69, BilboSwaggins_71, Manda_74, HanKaySha_73, SophKB_70,
 Elite2014_72, MPhalcon_74, Dusk_70, Quallification_74, Kanye_70, Saints25_72,
 PhatBacter_77, FairyPath_74, JeTaime_73, BadStone_70, Lilpickle_72,
 Contagion_69, Palpatine_75, ShereKhan_72, Henry_71, Emmina_73,
 Flypotenuse_69, Stank_76, Mindy_72, Hoonter_76, Lilac_75, Phaux_75, Ukulele_68,
 Cactus_76, Adnama_77, Hopey_73, GooberAzure_76, Myrale_73, TBrady12_76,
 Bench_76, Phrux_70, BaboJay_70, Goku_71, Kimchi_77, Asriel_72,
 Policronamos_76, Bruin_70, Argent26_77, Xandras_72, Tuco_74, Barbarian_72,
 TeardropMSU_69, ShamWow_73, xkcd_76, StolenFromERC_76, RiverMonster_73,
 Sotrice96_74, Harella_73, AmericanBeauty_77, Czyszczonek_74, Toto_71,
 Pharsalus_70, Gator_71, Stark_74, Brewer_69, Misfit_74, ChosenOne_73,
 Tarkin_72, ABCat_70, HufflyPuff_76, Ptowny_70, DrDrey_73, Holt_78,
 Paperbeatsrock_72
 • Track 42 : Palpatine_82, Petra64142_84, Highbury_79, Flypotenuse_76, Mindy_79,
 Inca_77, Moldemort_83, NonchalantPear_80, Dusk_77, Henry_78, Becksu_79,
 StellaBean_78, BilboSwaggins_78, AmericanBeauty_84, Rakim_81, Misfit_81,
 Lilac_82, Terminus_83, IHOP_78, Glexan_79, Kanye_77, Saints25_79, Cactus_83,
 Buck_81, GooberAzure_83, MadamMonkfish_80, Lilpickle_79, Holt_85, JeTaime_80,
 Gemini_85, Greep_84, Icee_81, MPhalcon_81, Filch_81, Kimchi_84,

Czyszczone1_81, Simpliphy_79, Maxxinista_82, Hopey_80, BadStone_77,
 Balomoji_80, Harella_80, TBrady12_83, Liveloughbron_82, Stark_81,
 RiverMonster_80, Easy2Say_81, CrystalP_79, Ukulele_75, BaboJay_77,
 Sotrice96_81, Asriel_79, Murphy_80, HanKaySha_80, Goldilocks_83,
 StolenFromERC_83, Tuco_81, BigBubba_80, Traaww1_76, Mosby_76,
 OrionPax_79, Gage_82, Thresher_82, ShamWow_80, ChosenOne_80, Phrux_77,
 Contagion_76, Youngblood_83, Toto_78, Brewer_76, Manda_81, Gator_78,
 Teaspoon_81, Barbarian_79, Elite2014_79, NoSleep_81, Wiggin_82, Argent26_84,
 PaddyBaddy_80, Ptowny_77
 • Track 43 : Traaww1_64, Easy2Say_69, BilboSwaggins_66, Moldemort_71,
 CrystalP_67, Asriel_67, Henry_66, Barbarian_67, ShamWow_68, Adnama_72,
 Toto_66, Stank_71, Mindy_67, Wiggin_70
 • Track 44 : FairyPath_81, Phaja_78, SophKB_77, ShereKhan_78, Quallification_81,
 Myrale_80
 • Track 45 : Buck_74, StormChicken_75
 • Track 46 : Nala_70, MPhalcon_69, Mosby_64, Bruin_65, Nimrod_69, Contagion_64,
 Becksu_67, Terminus_71, Misfit_69, FireRed_72, MISSy_69
 • Track 47 : Rimmer_81, Cookies_77, Bask21_80, ChotaBhai_80, SirDuracell_79,
 Pat3_78, Phaux_82, Policronamos_83, TeamEdward_82, DoctorDiddles_79
 • Track 48 : Cookies_70, ChotaBhai_73, Rakim_74, Pat3_71, BigBubba_73
 • Track 49 : Emmina_80, xkcd_83, Murica_83
 • Track 50 : Petra64142_77, Rimmer_74, MollyToe_68
 • Track 51 : Amao_80
 • Track 52 : Bench_83, Thimble_81, 244_81, Pumpkin_83, PhatBacter_84, Lilizi_81,
 FireRed_84, Hoonter_83, Xandras_79, Nimrod_81, Nala_82
 • Track 53 : Tomaszewski_75
 • Track 54 : FoghornLeghorn_74
 • Track 55 : Miniwave_75, Tarkin_79, Pharsalus_77, Paperbeatsrock_79
 • Track 56 : SirDuracell_72, Bask21_73, OrionPax_72, DoctorDiddles_72
 • Track 57 : Sassay_75, Willez_75
 • Track 58 : Cookies_65
 • Track 59 : ChotaBhai_68, Amao_68, Pat3_66
 • Track 60 : TeardropMSU_76, StormChicken_82, YassJohnny_77
 • Track 61 : TeamEdward_75
 • Track 62 : YassJohnny_70
 • Track 63 : Tomaszewski_68
 • Track 64 : Budgie_74
 • Track 65 : Budgie_79
 • Track 66 : MollyToe_75
 • Track 67 : Klein_131, Redno2_126, Wanda_133, Odette_138, ThreeRngTarjay_130,
 Dove_120, Minerva_133, HokkenD_126, DmpstrDiver_134, Constella_128,
 Duke13_129, Schatzie_130, Bagrid_135, Hughesyang_134, Yeet_128,
 Phoebus_135, EricMillard_126, Zelink_129
 • Track 68 : HokkenD_108, Ariel_113, Redno2_112, Lucky2013_110,
 Courthouse_108, JuicyJay_115, Phoebus_119, Porcelain_113, Squint_111,
 Rearden_107, Beem_120, Superphikiman_110, MiaZeal_113, NihilNomen_120,
 Dove_104
 • Track 69 : Constella_101
 • Track 70 : Dallas_119, Thibault_99
 • Track 71 : Hannaconda_104, Nibley_106, KashFlow_110, Shaboozey_111,
 Nekros_115, BronnyJames_111, LittleE_118, Gonephishing_107, Omega_124
 • Track 72 : Shaboozey_134, BronnyJames_131, Nibley_130

- Track 73 : NihilNomen_136, Hidrated_121, Bombitas_122, JuicyJay_131, Bobby_126, Marleymoo_119, Beem_136
- Track 74 : Lucky2013_128, MiaZeal_133, Rearden_132, Gonephishing_128, Hannaconda_127, KashFlow_131, Porcelain_131, Squint_131
- Track 75 : Nekros_136
- Track 76 : BAKA_134
- Track 77 : Superphikiman_131, Ariel_133, Courthouse_129
- Track 78 : Schatzie_113, Bombitas_106, Yeet_109, Odette_120
- Track 79 : LittleE_136, Omega_143
- Track 80 : Xiaokay_107
- Track 81 : Bagrid_119, Halley_121, Minerva_116, DmpstrDiver_119, Hughesyang_118, Pound_108, Ejimix_113
- Track 82 : Ejimix_128, Xiaokay_130, Halley_136, Thibault_119, Dallas_135
- Track 83 : AvadaKedavra_43
- Track 84 : OhShagHennessy_42, Rose5_42, Zaria_43, Enceladus_42, Halena_42, DirkDirk_42, JoeDirt_42, Wyatt2_43, UPIE_43, Calm_43, Acquire49_43, Wamburgrxpress_43, Silverleaf_42, LeBron_43, Appletree2_42
- Track 85 : MAckerman_43, CicholasNage_43
- Track 86 : Tyson_42
- Track 87 : Nicholasp3_45, Loadrie_44, GuuelaD_44, Wigglewiggles_45
- Track 88 : Kahlid_45, MkaliMitinis3_45, Gabriela_45, BigCheese_45, DrSeegs_45, Lewan_45, Vatrix_45, Netyap_45, Wilder_45, LilDestine_45
- Track 89 : Bazzle_45, Archie_45
- Track 90 : Hafay_45, OverPar_46, Soap141_45, Sarshaun_45
- Track 91 : SoJulia_46, Lynnae_45, BobsGarage_45
- Track 92 : Rossetti_46
- Track 93 : Crossroads_45, Zakai_45, Gardann_45, Underpass_45
- Track 94 : ZhongYanYuan_43, DHan_46, DanBing_44
- Track 95 : Faith1_45, Itos_44, Finemlucis_45, Winky_45, Breezona_45, Miley16_45
- Track 96 : Baoshan_44, Claus_45
- Track 97 : Rumpelstiltskin_45
- Track 98 : Tourach_44
- Track 99 : Lumos_42, Jubie_42, Whirlwind_43
- Track 100 : Krypton555_42
- Track 101 : Samty_42, Moostard_42, Red305_42, Jobypre_42, Kingsolomon_42, Bellis_42, Finnry_42, Snenia_42, TriFive_42, Nicholas_42
- Track 102 : DuncansLeg_42, Ellson_42, LiyuLake_42, BourbonZero_41, KirDoubleO7_40
- Track 103 : Clautastrophe_42, MsGreen_42
- Track 104 : Lolly9_42
- Track 105 : MiniLon_42, MiniMac_42
- Track 106 : DyoEdafos_44, Kropertea_43
- Track 107 : PYPDinur_41, Sheng711_43
- Track 108 : ChutneyChips_43, Douzhi_42, FarmResident_43
- Track 109 : BrainDrainer_43
- Track 110 : Douge_42, Chaser_42
- Track 111 : Bromden_45
- Track 112 : Quby_43
- Track 113 : Aegeus_65, Baudelaire_65
- Track 114 : Madruga_58, Demikore_60
- Track 115 : SuperSonics_61
- Track 116 : Labelle_59
- Track 117 : Patience_60

- Track 118 : Stellammi_89

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

The start number called the most often in the published annotations is 45, it was called in 135 of the 577 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_69, ABCat_65, Adnama_72, Amao_68, AmericanBeauty_72, Argent26_72, Asriel_67, BaboJay_65, BadStone_65, Balomoji_68, Barbarian_67, Bask21_68, Becksu_67, Bench_71, BigBubba_68, BilboSwaggins_66, Bogg_68, Brewer_64, Bruin_65, Buck_69, Budgie_74, BugsBunny_68, Cactus_71, ChosenOne_68, ChotaBhai_68, Cjw1_68, Command613_70, Contagion_64, Cookies_65, CrystalP_67, Czystoczon1_69, Daikon_70, Demikore_60, DoctorDiddles_67, DrDrey_68, Dumbo_68, Dusk_65, Easy2Say_69, Elite2014_67, Elph10_68, Emmina_68, Eureka_66, FairyPath_69, Filch_69, FireRed_72, Flypotenuse_64, FoghornLeghorn_62, Gage_70, Gator_66, Gemini_73, Glexan_67, Goku_66, GoldenSpark_72, Goldilocks_71, GooberAzure_71, Greep_72, HanKaySha_68, Harella_68, Henry_66, Highbury_67, Holt_73, Hoonter_71, Hopey_68, HufflyPuff_71, IHOP_66, Icee_69, Inca_65, JeTaime_68, Kanye_65, Kimchi_72, Kostya_68, Labelle_59, Lilac_70, Lilizi_69, Lilpickle_67, Liveloughbron_70, MISSy_69, MPhalcon_69, MadamMonkfish_68, Madruga_58, Manda_68, Marshmallow_66, Maxxinista_70, Mindy_67, Miniwave_63, Misfit_69, Moldemort_71, MollyToe_63, Mosby_64, Murica_71, Murphy_68, Myrale_68, Nala_70, NelitzaMV_66, Nimrod_69, NoSleep_69, NonchalantPear_68, OrionPax_67, PaddyBaddy_68, Palpatine_70, Paperbeatsrock_67, Pat3_66, Patience_60, Petra64142_72, Phaja_66, Pharsalus_65, PhatBacter_72, Phaux_70, Phrux_65, Policronamos_71, Porky_67, Ptowny_65, Pumpkin_71, Quallification_69, Rakim_69, Rimmer_69, RiverMonster_68, Saints25_67, Sassay_63, ShamWow_68, ShereKhan_67, Simpliphy_67, SirDuracell_67, SophKB_65, Sotrice96_69, Stank_71, Stark_69, StellaBean_66, StolenFromERC_71, StormChicken_70, SuperSonics_61, TBrady12_71, Tarkin_67, TeamEdward_70, TeardropMSU_64, Teaspoon_69, Terminus_71, Thimble_69, Thresher_70, Tomaszewski_63, Toto_66, Traaww1_64, Tuco_69, Ukulele_63, Wiggin_70, Willez_63, Xandras_67, YassJohnny_65, Youngblood_71, xkcd_71,

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

- Spooks_26, Stellammi_89, Success_26,

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

- 244_74, 244_81, ABCat_70, ABCat_77, Acquire49_43, Adnama_77, Adnama_84, Aegeus_65, Amao_73, Amao_80, AmericanBeauty_77, AmericanBeauty_84, Appletree2_42, Archie_45, Argent26_77, Argent26_84, Ariel_113, Ariel_133, Asriel_72, Asriel_79, AvadaKedavra_43, BAKA_134, BaboJay_70, BaboJay_77, BadStone_70, BadStone_77, Bagrid_119, Bagrid_135, Balomoji_73, Balomoji_80, Baoshan_44, Barbarian_72, Barbarian_79, Bask21_73, Bask21_80, Baudelaire_65, Bazzle_45, Becksu_72, Becksu_79, Beem_120, Beem_136, Bellis_42, Bench_76, Bench_83, BigBubba_73, BigBubba_80, BigCheese_45, BilboSwaggins_71, BilboSwaggins_78, Bobby_126, BobsGarage_45, Bogg_73, Bogg_80, Bombitas_106, Bombitas_122, BourbonZero_41, BrainDrainer_43, Breezona_45, Brewer_69,

Brewer_76, Bromden_45, BronnyJames_111, BronnyJames_131, Bruin_70, Bruin_77, BrutonGaster_97, Buck_74, Buck_81, Budgie_79, Budgie_86, BugsBunny_73, BugsBunny_80, Button_63, Cactus_76, Cactus_83, Calm_43, Chaser_42, ChosenOne_73, ChosenOne_80, ChotaBhai_73, ChotaBhai_80, ChutneyChips_43, CicholasNage_43, Cjw1_73, Cjw1_80, Claus_45, Clautastrophe_42, Command613_75, Command613_82, Constella_101, Constella_128, Contagion_69, Contagion_76, Cookies_70, Cookies_77, Courthouse_108, Courthouse_129, Crossroads_45, CrystalP_72, CrystalP_79, Czyszczonek_74, Czyszczonek_81, DHan_46, Daikon_75, Daikon_82, Dallas_119, Dallas_135, DanBing_44, DirkDirk_42, DmpstrDiver_119, DmpstrDiver_134, DoctorDiddles_72, DoctorDiddles_79, Douge_42, Douzhi_42, Dove_104, Dove_120, DrDrey_73, DrDrey_80, DrSeegs_45, Duke13_129, Dumbo_73, Dumbo_80, DuncansLeg_42, Dusk_70, Dusk_77, DyoEdafos_44, Easy2Say_74, Easy2Say_81, Ejimix_113, Ejimix_128, Elite2014_72, Elite2014_79, Ellson_42, Elph10_73, Elph10_80, Emmina_73, Emmina_80, Enceladus_42, EricMillard_126, Eureka_71, Eureka_78, FairyPath_74, FairyPath_81, Faith1_45, FarmResident_43, Filch_74, Filch_81, Finemlucis_45, Finnry_42, FireRed_77, FireRed_84, Flypotenuse_69, Flypotenuse_76, FoghornLeghorn_67, FoghornLeghorn_74, Gabriela_45, Gage_75, Gage_82, Gardann_45, Gator_71, Gator_78, Gemini_78, Gemini_85, GiKK_67, Glexan_72, Glexan_79, Goku_71, Goku_78, GoldenSpark_77, GoldenSpark_84, Goldilocks_76, Goldilocks_83, Gonephishing_107, Gonephishing_128, GooberAzure_76, GooberAzure_83, Grayson_20, Grayson_21, Grayson_232, Grayson_26, Greep_77, Greep_84, GuuelaD_44, Hafay_45, Halena_42, Halley_121, Halley_136, HanKaySha_73, HanKaySha_80, Hannaconda_104, Hannaconda_127, Harella_73, Harella_80, Henry_71, Henry_78, Hidrated_121, Highbury_72, Highbury_79, HokkenD_108, HokkenD_126, Holt_78, Holt_85, Hoonter_76, Hoonter_83, Hopey_73, Hopey_80, HufflyPuff_76, HufflyPuff_83, Hughesyang_118, Hughesyang_134, IHOP_71, IHOP_78, Icee_74, Icee_81, Inca_70, Inca_77, Itos_44, Jamzy_67, JeTaime_73, JeTaime_80, Jobypre_42, JoeDirt_42, Jubie_42, JuicyJay_115, JuicyJay_131, Kahlid_45, Kanye_70, Kanye_77, KashFlow_110, KashFlow_131, Kimchi_77, Kimchi_84, Kingsolomon_42, KirDoubleO7_40, Klein_131, Kostya_73, Kostya_80, Kropertea_43, Krypton555_42, LeBron_43, Lewan_45, LilDestine_45, LilJank_45, LilJank_52, Lilac_75, Lilac_82, Lilizi_74, Lilizi_81, Lilpickle_72, Lilpickle_79, LittleE_118, LittleE_136, Liveloughbron_75, Liveloughbron_82, LiyuLake_42, Loadrie_44, Lolly9_42, Lucky2013_110, Lucky2013_128, Lumos_42, Lynnae_45, MAckerman_43, MISSy_74, MISSy_81, MPhalcon_74, MPhalcon_81, MadamMonkfish_73, MadamMonkfish_80, Manda_74, Manda_81, Margaret_67, Marleymoo_119, Marshmallow_71, Marshmallow_78, Maxxinista_75, Maxxinista_82, MiaZeal_113, MiaZeal_133, Miley16_45, Mindy_72, Mindy_79, Minerva_116, Minerva_133, MiniLon_42, MiniMac_42, Miniwave_68, Miniwave_75, Misfit_74, Misfit_81, MkaliMitinis3_45, Moldemort_76, Moldemort_83, MollyToe_68, MollyToe_75, Moostard_42, Mosby_69, Mosby_76, MsGreen_42, Murica_76, Murica_83, Murphy_73, Murphy_80, Myrale_73, Myrale_80, Nala_75, Nala_82, Nekros_115, Nekros_136, NelitzaMV_71, NelitzaMV_78, Netyap_45, Neville_46, Neville_54, Nibley_106, Nibley_130, NiceHouse_171, NiceHouse_172, NiceHouse_173, Nicholas_42, Nicholasp3_45, NihilNomen_120, NihilNomen_136, Nimrod_74, Nimrod_81, NoSleep_74, NoSleep_81, NonchalantPear_73, NonchalantPear_80, Odette_120, Odette_138, OhShagHennessy_42, Omega_124, Omega_143, OneUp_106, OrionPax_72, OrionPax_79, OverPar_46, PYPDinur_41, PaddyBaddy_73, PaddyBaddy_80, Palpatine_75, Palpatine_82, Paperbeatsrock_72, Paperbeatsrock_79, Pat3_71, Pat3_78, Peregrin_19, Peregrin_20, Peregrin_226, Peregrin_24, Petra64142_77, Petra64142_84, Phaja_71, Phaja_78, Pharsalus_70, Pharsalus_77, PhatBacter_77, PhatBacter_84, Phaux_75, Phaux_82, Phoebus_119,

Phoebus_135, Phrux_70, Phrux_77, Policronamos_76, Policronamos_83, Porcelain_113, Porcelain_131, Porky_72, Porky_79, Pound_108, Ptowny_70, Ptowny_77, Pumpkin_76, Pumpkin_83, Qualification_74, Qualification_81, Quby_43, Rabbitrun_47, Rabbitrun_55, Rakim_74, Rakim_81, RanchParmCat_67, Rearden_107, Rearden_132, Red305_42, Redno2_112, Redno2_126, Rimmer_74, Rimmer_81, RiverMonster_73, RiverMonster_80, Rose5_42, Rossetti_46, Rumpelstiltskin_45, Saints25_72, Saints25_79, Samty_42, Sarshaun_45, Sassay_68, Sassay_75, Schatzie_113, Schatzie_130, Shaboozey_111, Shaboozey_134, ShamWow_73, ShamWow_80, Sheng711_43, ShereKhan_72, ShereKhan_78, Silverleaf_42, Simpliphy_72, Simpliphy_79, SirDuracell_72, SirDuracell_79, Snenia_42, SoJulia_46, Soap141_45, SophKB_70, SophKB_77, Sotrice96_74, Sotrice96_81, Squint_111, Squint_131, Stank_76, Stank_83, Stark_74, Stark_81, StellaBean_71, StellaBean_78, StolenFromERC_76, StolenFromERC_83, StormChicken_75, StormChicken_82, Superphikiman_110, Superphikiman_131, TBrady12_76, TBrady12_83, Tarkin_72, Tarkin_79, TeamEdward_75, TeamEdward_82, TeardropMSU_69, TeardropMSU_76, Teaspoon_74, Teaspoon_81, Terminus_76, Terminus_83, Thibault_119, Thibault_99, Thimble_74, Thimble_81, ThreeRngTarjay_130, Thresher_75, Thresher_82, Tomaszewski_68, Tomaszewski_75, Toto_71, Toto_78, Tourach_44, Traaww1_69, Traaww1_76, Trax_45, Trax_53, TriFive_42, Trina_234, Trina_236, Tuco_74, Tuco_81, Tyson_42, UPIE_43, Ukulele_68, Ukulele_75, Underpass_45, Vetrrix_45, Wamburggrxpress_43, Wanda_133, Weasels2_18, Weasels2_208, Weasels2_22, Weasels2_237, Whirlwind_43, Wiggin_75, Wiggin_82, Wigglewiggle_45, Wilder_45, Willez_68, Willez_75, Winky_45, Wyatt2_43, Xandras_72, Xandras_79, Xiaokay_107, Xiaokay_130, Yakult_64, YassJohnny_70, YassJohnny_77, Yeet_109, Yeet_128, Youngblood_76, Youngblood_83, Zakai_45, Zaria_43, Zelink_129, ZhongYanYuan_43, xkcd_76, xkcd_83,

Summary by start number:

Start 16:

- Found in 2 of 661 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 577
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Button_63 (CT), Yakult_64 (CT),

Start 17:

- Found in 4 of 661 (0.6%) of genes in pham
- Manual Annotations of this start: 4 of 577
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GiKK_67 (CT), Jamzy_67 (CT), Margaret_67 (CT), RanchParmCat_67 (CT),

Start 18:

- Found in 55 of 661 (8.3%) of genes in pham
- Manual Annotations of this start: 3 of 577
- Called 5.5% of time when present
- Phage (with cluster) where this start called: Clautastrophe_42 (L3), Krypton555_42 (L3), MsGreen_42 (L3),

Start 19:

- Found in 74 of 661 (11.2%) of genes in pham
- Manual Annotations of this start: 10 of 577

- Called 13.5% of time when present
- Phage (with cluster) where this start called: Breezona_45 (L2), Faith1_45 (L2), Finemlucis_45 (L2), GuuelaD_44 (L2), Itos_44 (L2), Loadrie_44 (L2), Miley16_45 (L2), Nicholasp3_45 (L2), Wigglewiggie_45 (L2), Winky_45 (L2),

Start 20:

- Found in 12 of 661 (1.8%) of genes in pham
- Manual Annotations of this start: 5 of 577
- Called 41.7% of time when present
- Phage (with cluster) where this start called: Bromden_45 (L4), Chaser_42 (L4), Douge_42 (L4), DyoEdafos_44 (L4), Kropertea_43 (L4),

Start 22:

- Found in 87 of 661 (13.2%) of genes in pham
- Manual Annotations of this start: 42 of 577
- Called 48.3% of time when present
- Phage (with cluster) where this start called: Acquire49_43 (L1), Appletree2_42 (L1), Archie_45 (L2), AvadaKedavra_43 (L1), Baoshan_44 (L2), Bazzle_45 (L2), BigCheese_45 (L2), Calm_43 (L1), Claus_45 (L2), Crossroads_45 (L2), DirkDirk_42 (L1), DrSeegs_45 (L2), Enceladus_42 (L1), Gabriela_45 (L2), Gardann_45 (L2), Halena_42 (L1), JoeDirt_42 (L1), Jubie_42 (L3), Kahlid_45 (L2), LeBron_43 (L1), Lewan_45 (L2), LilDestine_45 (L2), Lumos_42 (L3), MiniLon_42 (L3), MiniMac_42 (L3), MkaliMitinis3_45 (L2), Netyap_45 (L2), OhShagHennessy_42 (L1), Rose5_42 (L1), Rumpelstiltskin_45 (L2), Silverleaf_42 (L1), Tourach_44 (L2), Tyson_42 (L1), UPIE_43 (L1), Underpass_45 (L2), Vetrix_45 (L2), Wamburggrxpress_43 (L1), Whirlwind_43 (L3), Wilder_45 (L2), Wyatt2_43 (L1), Zakai_45 (L2), Zaria_43 (L1),

Start 24:

- Found in 2 of 661 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 577
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spooks_26 (BT), Success_26 (BT),

Start 29:

- Found in 4 of 661 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 577
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilJank_52 (DU2), Neville_54 (DU2), Rabbitrun_55 (DU2), Trax_53 (DU2),

Start 30:

- Found in 2 of 661 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 577
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Trina_236 (CE),

Start 32:

- Found in 4 of 661 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 577
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Neville_46 (DU2), Rabbitrun_47 (DU2), Trax_45 (DU2),

Start 34:

- Found in 1 of 661 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 577
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse_172 (CE),

Start 37:

- Found in 4 of 661 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: LilJank_45 (DU2),

Start 41:

- Found in 5 of 661 (0.8%) of genes in pham
- Manual Annotations of this start: 5 of 577
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_232 (CB), Peregrin_226 (CB), Trina_234 (CE), Weasels2_208 (CB), Weasels2_237 (CB),

Start 43:

- Found in 3 of 661 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 577
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_26 (CB), Peregrin_24 (CB), Weasels2_22 (CB),

Start 44:

- Found in 39 of 661 (5.9%) of genes in pham
- Manual Annotations of this start: 30 of 577
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_113 (J), Bagrid_119 (J), Beem_120 (J), Bombitas_106 (J), BronnyJames_111 (J), Constella_101 (J), Courthouse_108 (J), Dallas_119 (J), DmpstrDiver_119 (J), Dove_104 (J), Ejimix_113 (J), Gonephishing_107 (J), Halley_121 (J), Hannaconda_104 (J), HokkenD_108 (J), Hughesyang_118 (J), JuicyJay_115 (J), KashFlow_110 (J), LittleE_118 (J), Lucky2013_110 (J), MiaZeal_113 (J), Minerva_116 (J), Nekros_115 (J), Nibley_106 (J), NihilNomen_120 (J), Odette_120 (J), Omega_124 (J), Phoebus_119 (J), Porcelain_113 (J), Pound_108 (J), Rearden_107 (J), Redno2_112 (J), Schatzie_113 (J), Shaboozey_111 (J), Squint_111 (J), Superphikiman_110 (J), Thibault_99 (J), Xiaokay_107 (J), Yeet_109 (J),

Start 45:

- Found in 153 of 661 (23.1%) of genes in pham
- Manual Annotations of this start: 135 of 577
- Called 98.0% of time when present
- Phage (with cluster) where this start called: 244_69 (E), ABCat_65 (E), Adnama_72 (E), Amao_68 (E), AmericanBeauty_72 (E), Argent26_72 (E), Asriel_67 (E), BaboJay_65 (E), BadStone_65 (E), Balomoji_68 (E), Barbarian_67 (E), Bask21_68 (E), Becksu_67 (E), Bench_71 (E), BigBubba_68 (E), BilboSwaggins_66 (E), Bogg_68 (E), Brewer_64 (E), Bruin_65 (E), Buck_69 (E), Budgie_74 (E), BugsBunny_68 (E), Cactus_71 (E), ChosenOne_68 (E), ChotaBhai_68 (E), Cjw1_68 (E), Command613_70 (E), Contagion_64 (E), Cookies_65 (E), CrystalP_67 (E), Czyszczon1_69 (E), Daikon_70 (E), Demikore_60 (U), DoctorDiddles_67 (E),

DrDrey_68 (E), Dumbo_68 (E), Dusk_65 (E), Easy2Say_69 (E), Elite2014_67 (E), Elph10_68 (E), Emmina_68 (E), Eureka_66 (E), FairyPath_69 (E), Filch_69 (E), FireRed_72 (E), Flypotenuse_64 (E), FoghornLeghorn_62 (E), Gage_70 (E), Gator_66 (E), Gemini_73 (E), Glexan_67 (E), Goku_66 (E), GoldenSpark_72 (E), Goldilocks_71 (E), GooberAzure_71 (E), Greep_72 (E), HanKaySha_68 (E), Harella_68 (E), Henry_66 (E), Highbury_67 (E), Holt_73 (E), Hoonter_71 (E), Hopey_68 (E), HuffyPuff_71 (E), IHOP_66 (E), Icee_69 (E), Inca_65 (E), JeTaime_68 (E), Kanye_65 (E), Kimchi_72 (E), Kostya_68 (E), Labelle_59 (U), Lilac_70 (E), Lilizi_69 (E), Lilpickle_67 (E), Liveloughbron_70 (E), MISSy_69 (E), MPhalcon_69 (E), MadamMonkfish_68 (E), Madrugá_58 (U), Manda_68 (E), Marshmallow_66 (E), Maxxinista_70 (E), Mindy_67 (E), Miniwave_63 (E), Misfit_69 (E), Moldemort_71 (E), MollyToe_63 (E), Mosby_64 (E), Murica_71 (E), Murphy_68 (E), Myrale_68 (E), Nala_70 (E), NelitzaMV_66 (E), Nimrod_69 (E), NoSleep_69 (E), NonchalantPear_68 (E), OrionPax_67 (E), PaddyBaddy_68 (E), Palpatine_70 (E), Paperbeatsrock_67 (E), Pat3_66 (E), Patience_60 (U), Petra64142_72 (E), Phaja_66 (E), Pharsalus_65 (E), PhatBacter_72 (E), Phaux_70 (E), Phrux_65 (E), Policronamos_71 (E), Porky_67 (E), Ptowny_65 (E), Pumpkin_71 (E), Quallification_69 (E), Rakim_69 (E), Rimmer_69 (E), RiverMonster_68 (E), Saints25_67 (E), Sassay_63 (E), ShamWow_68 (E), ShereKhan_67 (E), Simpliphy_67 (E), SirDuracell_67 (E), SophKB_65 (E), Sotrice96_69 (E), Stank_71 (E), Stark_69 (E), StellaBean_66 (E), StolenFromERC_71 (E), StormChicken_70 (E), SuperSonics_61 (U), TBrady12_71 (E), Tarkin_67 (E), TeamEdward_70 (E), TeardropMSU_64 (E), Teaspoon_69 (E), Terminus_71 (E), Thimble_69 (E), Thresher_70 (E), Tomaszewski_63 (E), Toto_66 (E), Traaww1_64 (E), Tuco_69 (E), Ukulele_63 (E), Wiggin_70 (E), Willez_63 (E), Xandras_67 (E), YassJohnny_65 (E), Youngblood_71 (E), xkcd_71 (E),

Start 46:

- Found in 48 of 661 (7.3%) of genes in pham
- Manual Annotations of this start: 36 of 577
- Called 97.9% of time when present
- Phage (with cluster) where this start called: Ariel_133 (J), Bagrid_135 (J), Beem_136 (J), Bobby_126 (J), Bombitas_122 (J), BronnyJames_131 (J), Constella_128 (J), Courthouse_129 (J), Dallas_135 (J), DmpstrDiver_134 (J), Dove_120 (J), Duke13_129 (J), Ejimix_128 (J), EricMillard_126 (J), Gonephishing_128 (J), Halley_136 (J), Hannaconda_127 (J), Hidrated_121 (J), HokkenD_126 (J), Hughesyang_134 (J), JuicyJay_131 (J), KashFlow_131 (J), Klein_131 (J), LittleE_136 (J), Lucky2013_128 (J), Marleymoo_119 (J), MiaZeal_133 (J), Minerva_133 (J), Nekros_136 (J), Nibley_130 (J), NihilNomen_136 (J), Odette_138 (J), Omega_143 (J), Phoebus_135 (J), Porcelain_131 (J), Rearden_132 (J), Redno2_126 (J), Schatzie_130 (J), Shaboozey_134 (J), Squint_131 (J), Superphikiman_131 (J), Thibault_119 (J), ThreeRngTarjay_130 (J), Wanda_133 (J), Xiaokay_130 (J), Yeet_128 (J), Zelink_129 (J),

Start 47:

- Found in 27 of 661 (4.1%) of genes in pham
- Manual Annotations of this start: 3 of 577
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Aegeus_65 (L5), Baudelaire_65 (L5), Stellammi_89 (UNK),

Start 48:

- Found in 150 of 661 (22.7%) of genes in pham

- Manual Annotations of this start: 27 of 577
- Called 22.0% of time when present
- Phage (with cluster) where this start called: ABCat_77 (E), Adnama_84 (E), Bogg_80 (E), Bruin_77 (E), BugsBunny_80 (E), Cjw1_80 (E), Command613_82 (E), Daikon_82 (E), DrDrey_80 (E), Dumbo_80 (E), Elph10_80 (E), Eureka_78 (E), FoghornLeghorn_74 (E), Goku_78 (E), GoldenSpark_84 (E), Grayson_20 (CB), Grayson_21 (CB), HufflyPuff_83 (E), Kostya_80 (E), MISSy_81 (E), Marshmallow_78 (E), MollyToe_75 (E), NelitzaMV_78 (E), Peregrin_19 (CB), Peregrin_20 (CB), Porky_79 (E), Sassay_75 (E), Stank_83 (E), StormChicken_82 (E), TeardropMSU_76 (E), Weasels2_18 (CB), Willez_75 (E), YassJohnny_77 (E),

Start 50:

- Found in 1 of 661 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 577
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse_173 (CE),

Start 51:

- Found in 193 of 661 (29.2%) of genes in pham
- Manual Annotations of this start: 89 of 577
- Called 47.2% of time when present
- Phage (with cluster) where this start called: ABCat_70 (E), Adnama_77 (E), AmericanBeauty_77 (E), Argent26_77 (E), Asriel_72 (E), BAKA_134 (J), BaboJay_70 (E), BadStone_70 (E), Barbarian_72 (E), Bench_76 (E), BigBubba_73 (E), BilboSwaggins_71 (E), Brewer_69 (E), Bruin_70 (E), Buck_74 (E), Cactus_76 (E), ChosenOne_73 (E), ChotaBhai_73 (E), Contagion_69 (E), Cookies_70 (E), Czystczon1_74 (E), DrDrey_73 (E), Dusk_70 (E), Elite2014_72 (E), Emmina_73 (E), FairyPath_74 (E), Flypotenuse_69 (E), Gage_75 (E), Gator_71 (E), Gemini_78 (E), Glexan_72 (E), Goku_71 (E), GooberAzure_76 (E), HanKaySha_73 (E), Harella_73 (E), Henry_71 (E), Highbury_72 (E), Holt_78 (E), Hoonter_76 (E), Hopey_73 (E), HufflyPuff_76 (E), IHOP_71 (E), Inca_70 (E), JeTaime_73 (E), Kanye_70 (E), Kimchi_77 (E), Lilac_75 (E), Lilizi_74 (E), Lilpickle_72 (E), MISSy_74 (E), MPhalcon_74 (E), Manda_74 (E), Mindy_72 (E), Miniwave_68 (E), Misfit_74 (E), Moldemort_76 (E), Mosby_69 (E), Myrale_73 (E), NoSleep_74 (E), Palpatine_75 (E), Paperbeatsrock_72 (E), Pat3_71 (E), Phaja_71 (E), Pharsalus_70 (E), PhatBacter_77 (E), Phaux_75 (E), Phrux_70 (E), Policronamos_76 (E), Ptowny_70 (E), Quallification_74 (E), Rakim_74 (E), RiverMonster_73 (E), Saints25_72 (E), ShamWow_73 (E), ShereKhan_72 (E), SophKB_70 (E), Sotrice96_74 (E), Stank_76 (E), Stark_74 (E), StolenFromERC_76 (E), StormChicken_75 (E), TBrady12_76 (E), Tarkin_72 (E), TeardropMSU_69 (E), Tomaszewski_68 (E), Toto_71 (E), Traaww1_69 (E), Tuco_74 (E), Ukulele_68 (E), Xandras_72 (E), xkcd_76 (E),

Start 54:

- Found in 145 of 661 (21.9%) of genes in pham
- Manual Annotations of this start: 44 of 577
- Called 37.9% of time when present
- Phage (with cluster) where this start called: 244_74 (E), Amao_73 (E), Balomoji_73 (E), Bask21_73 (E), Becksu_72 (E), Bogg_73 (E), Budgie_79 (E), BugsBunny_73 (E), Cjw1_73 (E), Command613_75 (E), CrystalP_72 (E), Daikon_75 (E), DoctorDiddles_72 (E), Dumbo_73 (E), Easy2Say_74 (E), Elph10_73 (E), Eureka_71 (E), Filch_74 (E), FireRed_77 (E), FoghornLeghorn_67 (E), GoldenSpark_77 (E), Goldilocks_76 (E), Greep_77 (E), Icee_74 (E), Kostya_73 (E), Liveloughbron_75 (E), MadamMonkfish_73 (E), Marshmallow_71 (E), Maxxinista_75 (E), MollyToe_68 (E),

Murica_76 (E), Murphy_73 (E), Nala_75 (E), NelitzaMV_71 (E), Nimrod_74 (E), NonchalantPear_73 (E), OrionPax_72 (E), PaddyBaddy_73 (E), Petra64142_77 (E), Porky_72 (E), Pumpkin_76 (E), Rimmer_74 (E), Sassay_68 (E), Simpliphy_72 (E), SirDuracell_72 (E), StellaBean_71 (E), TeamEdward_75 (E), Teaspoon_74 (E), Terminus_76 (E), Thimble_74 (E), Thresher_75 (E), Wiggin_75 (E), Willez_68 (E), YassJohnny_70 (E), Youngblood_76 (E),

Start 55:

- Found in 150 of 661 (22.7%) of genes in pham
- Manual Annotations of this start: 110 of 577
- Called 78.0% of time when present
- Phage (with cluster) where this start called: 244_81 (E), Amao_80 (E), AmericanBeauty_84 (E), Argent26_84 (E), Asriel_79 (E), BaboJay_77 (E), BadStone_77 (E), Balomoji_80 (E), Barbarian_79 (E), Bask21_80 (E), Becksu_79 (E), Bench_83 (E), BigBubba_80 (E), BilboSwaggins_78 (E), Brewer_76 (E), Buck_81 (E), Budgie_86 (E), Cactus_83 (E), ChosenOne_80 (E), ChotaBhai_80 (E), Contagion_76 (E), Cookies_77 (E), CrystalP_79 (E), Czyszccon1_81 (E), DoctorDiddles_79 (E), Dusk_77 (E), Easy2Say_81 (E), Elite2014_79 (E), Emmina_80 (E), FairyPath_81 (E), Filch_81 (E), FireRed_84 (E), Flypotenuse_76 (E), Gage_82 (E), Gator_78 (E), Gemini_85 (E), Glexan_79 (E), Goldilocks_83 (E), GooberAzure_83 (E), Greep_84 (E), HanKaySha_80 (E), Harella_80 (E), Henry_78 (E), Highbury_79 (E), Holt_85 (E), Hoonter_83 (E), Hopey_80 (E), IHOP_78 (E), Icee_81 (E), Inca_77 (E), JeTaimie_80 (E), Kanye_77 (E), Kimchi_84 (E), Lilac_82 (E), Lilizi_81 (E), Lilipickle_79 (E), Liveloughbron_82 (E), MPhalcon_81 (E), MadamMonkfish_80 (E), Manda_81 (E), Maxxinista_82 (E), Mindy_79 (E), Miniwave_75 (E), Misfit_81 (E), Moldemort_83 (E), Mosby_76 (E), Murica_83 (E), Murphy_80 (E), Myrale_80 (E), Nala_82 (E), Nimrod_81 (E), NoSleep_81 (E), NonchalantPear_80 (E), OrionPax_79 (E), PaddyBaddy_80 (E), Palpatine_82 (E), Paperbeatsrock_79 (E), Pat3_78 (E), Petra64142_84 (E), Phaja_78 (E), Pharsalus_77 (E), PhatBacter_84 (E), Phaux_82 (E), Phrux_77 (E), Policronamos_83 (E), Ptowny_77 (E), Pumpkin_83 (E), Quallification_81 (E), Rakim_81 (E), Rimmer_81 (E), RiverMonster_80 (E), Saints25_79 (E), ShamWow_80 (E), ShereKhan_78 (E), Simpliphy_79 (E), SirDuracell_79 (E), SophKB_77 (E), Sotrice96_81 (E), Stark_81 (E), StellaBean_78 (E), StolenFromERC_83 (E), TBrady12_83 (E), Tarkin_79 (E), TeamEdward_82 (E), Teaspoon_81 (E), Terminus_83 (E), Thimble_81 (E), Thresher_82 (E), Tomaszewski_75 (E), Toto_78 (E), Traaww1_76 (E), Tuco_81 (E), Ukulele_75 (E), Wiggin_82 (E), Xandras_79 (E), Youngblood_83 (E), xkcd_83 (E),

Start 56:

- Found in 103 of 661 (15.6%) of genes in pham
- Manual Annotations of this start: 17 of 577
- Called 35.0% of time when present
- Phage (with cluster) where this start called: Bellis_42 (L3), BobsGarage_45 (L2), BourbonZero_41 (L3), ChutneyChips_43 (L4), CicholasNage_43 (L1), DHan_46 (L2), DanBing_44 (L2), Douzhi_42 (L4), DuncansLeg_42 (L3), Ellson_42 (L3), FarmResident_43 (L4), Finnry_42 (L3), Hafay_45 (L2), Jobypre_42 (L3), Kingsolomon_42 (L3), KirDoubleO7_40 (L3), LiyuLake_42 (L3), Lolly9_42 (L3), Lynnae_45 (L2), MAckerman_43 (L1), Moostard_42 (L3), NiceHouse_171 (CE), Nicholas_42 (L3), OneUp_106 (CQ2), OverPar_46 (L2), PYPDinur_41 (L4), Quby_43 (L4), Red305_42 (L3), Samty_42 (L3), Sarshaun_45 (L2), Sheng711_43 (L4), Snenia_42 (L3), SoJulia_46 (L2), Soap141_45 (L2), TriFive_42 (L3), ZhongYanYuan_43 (L2),

Start 61:

- Found in 137 of 661 (20.7%) of genes in pham
- No Manual Annotations of this start.
- Called 1.5% of time when present
- Phage (with cluster) where this start called: BrainDrainer_43 (L4), Rossetti_46 (L2),

Start 67:

- Found in 25 of 661 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 577
- Called 4.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster_97 (CQ2),

Summary by clusters:

There are 15 clusters represented in this pham: E, CQ2, CB, J, CE, BT, L4, L5, L2, L3, L1, U, DU2, UNK, CT,

Info for manual annotations of cluster BT:

- Start number 24 was manually annotated 2 times for cluster BT.

Info for manual annotations of cluster CB:

- Start number 41 was manually annotated 4 times for cluster CB.
- Start number 43 was manually annotated 3 times for cluster CB.
- Start number 48 was manually annotated 5 times for cluster CB.

Info for manual annotations of cluster CE:

- Start number 30 was manually annotated 1 time for cluster CE.
- Start number 34 was manually annotated 1 time for cluster CE.
- Start number 41 was manually annotated 1 time for cluster CE.
- Start number 50 was manually annotated 1 time for cluster CE.
- Start number 56 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CQ2:

- Start number 56 was manually annotated 1 time for cluster CQ2.
- Start number 67 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CT:

- Start number 16 was manually annotated 2 times for cluster CT.
- Start number 17 was manually annotated 4 times for cluster CT.

Info for manual annotations of cluster DU2:

- Start number 29 was manually annotated 3 times for cluster DU2.
- Start number 32 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster E:

- Start number 45 was manually annotated 132 times for cluster E.
- Start number 48 was manually annotated 22 times for cluster E.
- Start number 51 was manually annotated 88 times for cluster E.
- Start number 54 was manually annotated 44 times for cluster E.
- Start number 55 was manually annotated 110 times for cluster E.

Info for manual annotations of cluster J:

- Start number 44 was manually annotated 30 times for cluster J.

- Start number 46 was manually annotated 36 times for cluster J.
- Start number 51 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster L1:

- Start number 22 was manually annotated 17 times for cluster L1.
- Start number 56 was manually annotated 2 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 19 was manually annotated 10 times for cluster L2.
- Start number 22 was manually annotated 20 times for cluster L2.
- Start number 56 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L3:

- Start number 18 was manually annotated 3 times for cluster L3.
- Start number 22 was manually annotated 5 times for cluster L3.
- Start number 56 was manually annotated 11 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 20 was manually annotated 5 times for cluster L4.
- Start number 56 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster L5:

- Start number 47 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster U:

- Start number 45 was manually annotated 3 times for cluster U.

Info for manual annotations of cluster UNK:

- Start number 47 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: 244_74 Start: 47428, Stop: 47793, Start Num: 54

Candidate Starts for 244_74:

(Start: 51 @47422 has 89 MA's), (Start: 54 @47428 has 44 MA's), (76, 47500), (91, 47554), (143, 47725),

Gene: 244_81 Start: 49796, Stop: 50131, Start Num: 55

Candidate Starts for 244_81:

(1, 49226), (2, 49343), (6, 49544), (Start: 48 @49781 has 27 MA's), (Start: 55 @49796 has 110 MA's), (65, 49832), (155, 50111),

Gene: 244_69 Start: 45158, Stop: 45568, Start Num: 45

Candidate Starts for 244_69:

(Start: 45 @45158 has 135 MA's), (91, 45299), (103, 45347), (117, 45395), (145, 45488), (155, 45530),

Gene: ABCat_65 Start: 45505, Stop: 45915, Start Num: 45

Candidate Starts for ABCat_65:

(Start: 45 @45505 has 135 MA's), (91, 45646), (103, 45694), (117, 45742), (145, 45835), (155, 45877),

Gene: ABCat_70 Start: 47769, Stop: 48146, Start Num: 51

Candidate Starts for ABCat_70:

(Start: 51 @47769 has 89 MA's), (Start: 54 @47775 has 44 MA's), (76, 47847), (91, 47907), (143, 48078),

Gene: ABCat_77 Start: 50134, Stop: 50484, Start Num: 48

Candidate Starts for ABCat_77:

(6, 49897), (Start: 48 @50134 has 27 MA's), (Start: 55 @50149 has 110 MA's), (65, 50185), (155, 50464),

Gene: Acquire49_43 Start: 34025, Stop: 34441, Start Num: 22

Candidate Starts for Acquire49_43:

(Start: 18 @34004 has 3 MA's), (Start: 22 @34025 has 42 MA's), (Start: 47 @34091 has 3 MA's), (Start: 56 @34112 has 17 MA's), (61, 34130), (73, 34169), (78, 34181), (92, 34238), (119, 34298), (157, 34418),

Gene: Adnama_84 Start: 50160, Stop: 50507, Start Num: 48

Candidate Starts for Adnama_84:

(6, 49923), (Start: 48 @50160 has 27 MA's), (Start: 55 @50175 has 110 MA's), (65, 50211), (155, 50487),

Gene: Adnama_72 Start: 45528, Stop: 45938, Start Num: 45

Candidate Starts for Adnama_72:

(10, 45354), (Start: 45 @45528 has 135 MA's), (80, 45624), (91, 45669), (103, 45717), (117, 45765), (145, 45858), (155, 45900),

Gene: Adnama_77 Start: 47795, Stop: 48172, Start Num: 51

Candidate Starts for Adnama_77:

(Start: 51 @47795 has 89 MA's), (Start: 54 @47801 has 44 MA's), (76, 47873), (91, 47933), (143, 48104),

Gene: Aegeus_65 Start: 44400, Stop: 44765, Start Num: 47

Candidate Starts for Aegeus_65:

(Start: 47 @44400 has 3 MA's), (58, 44430), (82, 44502), (83, 44508), (121, 44622), (133, 44664), (160, 44751),

Gene: Amao_80 Start: 49569, Stop: 49901, Start Num: 55

Candidate Starts for Amao_80:

(6, 49317), (Start: 48 @49554 has 27 MA's), (Start: 55 @49569 has 110 MA's), (65, 49605), (118, 49764), (132, 49803), (136, 49818), (145, 49839),

Gene: Amao_68 Start: 44913, Stop: 45326, Start Num: 45

Candidate Starts for Amao_68:

(10, 44739), (Start: 45 @44913 has 135 MA's), (91, 45054), (100, 45096), (133, 45204), (145, 45243), (162, 45300),

Gene: Amao_73 Start: 47195, Stop: 47566, Start Num: 54

Candidate Starts for Amao_73:

(Start: 51 @47189 has 89 MA's), (Start: 54 @47195 has 44 MA's), (76, 47267), (91, 47327), (143, 47498),

Gene: AmericanBeauty_84 Start: 50318, Stop: 50653, Start Num: 55

Candidate Starts for AmericanBeauty_84:

(6, 50066), (Start: 48 @50303 has 27 MA's), (Start: 55 @50318 has 110 MA's), (65, 50354), (155, 50633),

Gene: AmericanBeauty_72 Start: 45671, Stop: 46081, Start Num: 45

Candidate Starts for AmericanBeauty_72:

(10, 45497), (Start: 45 @45671 has 135 MA's), (91, 45812), (103, 45860), (117, 45908), (145, 46001), (155, 46043),

Gene: AmericanBeauty_77 Start: 47938, Stop: 48315, Start Num: 51

Candidate Starts for AmericanBeauty_77:

(Start: 51 @47938 has 89 MA's), (Start: 54 @47944 has 44 MA's), (76, 48016), (91, 48076), (143, 48247),

Gene: Appletree2_42 Start: 33952, Stop: 34368, Start Num: 22

Candidate Starts for Appletree2_42:

(Start: 18 @33931 has 3 MA's), (Start: 22 @33952 has 42 MA's), (Start: 47 @34018 has 3 MA's), (Start: 56 @34039 has 17 MA's), (61, 34057), (73, 34096), (78, 34108), (92, 34165), (119, 34225), (157, 34345),

Gene: Archie_45 Start: 35560, Stop: 35976, Start Num: 22

Candidate Starts for Archie_45:

(Start: 19 @35551 has 10 MA's), (Start: 22 @35560 has 42 MA's), (Start: 56 @35647 has 17 MA's), (61, 35665), (70, 35692), (71, 35695), (92, 35770), (95, 35782), (123, 35842), (138, 35890), (157, 35953),

Gene: Argent26_72 Start: 45309, Stop: 45719, Start Num: 45

Candidate Starts for Argent26_72:

(10, 45135), (Start: 45 @45309 has 135 MA's), (91, 45450), (103, 45498), (117, 45546), (145, 45639), (155, 45681),

Gene: Argent26_77 Start: 47576, Stop: 47953, Start Num: 51

Candidate Starts for Argent26_77:

(Start: 51 @47576 has 89 MA's), (Start: 54 @47582 has 44 MA's), (76, 47654), (91, 47714), (143, 47885),

Gene: Argent26_84 Start: 49956, Stop: 50291, Start Num: 55

Candidate Starts for Argent26_84:

(6, 49704), (Start: 48 @49941 has 27 MA's), (Start: 55 @49956 has 110 MA's), (65, 49992), (155, 50271),

Gene: Ariel_113 Start: 61833, Stop: 62153, Start Num: 44

Candidate Starts for Ariel_113:

(Start: 44 @61833 has 30 MA's), (61, 61872), (92, 61971), (109, 62028), (118, 62064), (128, 62094), (139, 62139),

Gene: Ariel_133 Start: 69964, Stop: 70317, Start Num: 46

Candidate Starts for Ariel_133:

(Start: 46 @69964 has 36 MA's), (Start: 51 @69973 has 89 MA's), (140, 70243),

Gene: Asriel_67 Start: 43865, Stop: 44275, Start Num: 45

Candidate Starts for Asriel_67:

(10, 43691), (Start: 45 @43865 has 135 MA's), (80, 43961), (91, 44006), (103, 44054), (117, 44102), (145, 44195), (155, 44237),

Gene: Asriel_72 Start: 46132, Stop: 46509, Start Num: 51
Candidate Starts for Asriel_72:
(Start: 51 @46132 has 89 MA's), (Start: 54 @46138 has 44 MA's), (76, 46210), (91, 46270), (143, 46441),

Gene: Asriel_79 Start: 48512, Stop: 48844, Start Num: 55
Candidate Starts for Asriel_79:
(6, 48260), (Start: 48 @48497 has 27 MA's), (Start: 55 @48512 has 110 MA's), (65, 48548), (155, 48824),

Gene: AvadaKedavra_43 Start: 34034, Stop: 34450, Start Num: 22
Candidate Starts for AvadaKedavra_43:
(Start: 18 @34013 has 3 MA's), (Start: 22 @34034 has 42 MA's), (40, 34088), (Start: 47 @34100 has 3 MA's), (Start: 56 @34121 has 17 MA's), (61, 34139), (73, 34178), (78, 34190), (92, 34247), (119, 34307), (157, 34427),

Gene: BAKA_134 Start: 72670, Stop: 73020, Start Num: 51
Candidate Starts for BAKA_134:
(31, 72634), (Start: 46 @72661 has 36 MA's), (Start: 51 @72670 has 89 MA's), (92, 72802), (96, 72817), (140, 72946), (143, 72952),

Gene: BaboJay_65 Start: 44702, Stop: 45112, Start Num: 45
Candidate Starts for BaboJay_65:
(10, 44528), (Start: 45 @44702 has 135 MA's), (91, 44843), (103, 44891), (117, 44939), (145, 45032), (155, 45074),

Gene: BaboJay_70 Start: 46969, Stop: 47346, Start Num: 51
Candidate Starts for BaboJay_70:
(Start: 51 @46969 has 89 MA's), (Start: 54 @46975 has 44 MA's), (76, 47047), (91, 47107), (143, 47278),

Gene: BaboJay_77 Start: 49349, Stop: 49684, Start Num: 55
Candidate Starts for BaboJay_77:
(6, 49097), (Start: 48 @49334 has 27 MA's), (Start: 55 @49349 has 110 MA's), (65, 49385), (155, 49664),

Gene: BadStone_65 Start: 45074, Stop: 45484, Start Num: 45
Candidate Starts for BadStone_65:
(Start: 45 @45074 has 135 MA's), (91, 45215), (103, 45263), (117, 45311), (145, 45404), (155, 45446),

Gene: BadStone_70 Start: 47338, Stop: 47715, Start Num: 51
Candidate Starts for BadStone_70:
(Start: 51 @47338 has 89 MA's), (Start: 54 @47344 has 44 MA's), (76, 47416), (91, 47476), (143, 47647),

Gene: BadStone_77 Start: 49718, Stop: 50053, Start Num: 55
Candidate Starts for BadStone_77:
(6, 49466), (Start: 48 @49703 has 27 MA's), (Start: 55 @49718 has 110 MA's), (65, 49754), (155, 50033),

Gene: Bagrid_119 Start: 66108, Stop: 66428, Start Num: 44
Candidate Starts for Bagrid_119:

(Start: 44 @66108 has 30 MA's), (61, 66147), (109, 66303), (118, 66339), (128, 66369), (139, 66414),

Gene: Bagrid_135 Start: 72784, Stop: 73143, Start Num: 46

Candidate Starts for Bagrid_135:

(31, 72757), (Start: 46 @72784 has 36 MA's), (Start: 51 @72793 has 89 MA's), (92, 72925), (96, 72940), (140, 73069), (143, 73075),

Gene: Balomoji_73 Start: 47905, Stop: 48276, Start Num: 54

Candidate Starts for Balomoji_73:

(Start: 51 @47899 has 89 MA's), (Start: 54 @47905 has 44 MA's), (76, 47977), (91, 48037), (143, 48208),

Gene: Balomoji_80 Start: 50279, Stop: 50614, Start Num: 55

Candidate Starts for Balomoji_80:

(6, 50027), (Start: 48 @50264 has 27 MA's), (Start: 55 @50279 has 110 MA's), (65, 50315), (155, 50594),

Gene: Balomoji_68 Start: 45635, Stop: 46045, Start Num: 45

Candidate Starts for Balomoji_68:

(Start: 45 @45635 has 135 MA's), (91, 45776), (103, 45824), (117, 45872), (145, 45965), (155, 46007),

Gene: Baoshan_44 Start: 35217, Stop: 35633, Start Num: 22

Candidate Starts for Baoshan_44:

(Start: 19 @35208 has 10 MA's), (Start: 22 @35217 has 42 MA's), (Start: 56 @35304 has 17 MA's), (61, 35322), (70, 35349), (71, 35352), (92, 35430), (138, 35547), (157, 35610),

Gene: Barbarian_67 Start: 43865, Stop: 44275, Start Num: 45

Candidate Starts for Barbarian_67:

(10, 43691), (Start: 45 @43865 has 135 MA's), (80, 43961), (91, 44006), (103, 44054), (117, 44102), (145, 44195), (155, 44237),

Gene: Barbarian_72 Start: 46132, Stop: 46509, Start Num: 51

Candidate Starts for Barbarian_72:

(Start: 51 @46132 has 89 MA's), (Start: 54 @46138 has 44 MA's), (76, 46210), (91, 46270), (143, 46441),

Gene: Barbarian_79 Start: 48512, Stop: 48844, Start Num: 55

Candidate Starts for Barbarian_79:

(6, 48260), (Start: 48 @48497 has 27 MA's), (Start: 55 @48512 has 110 MA's), (65, 48548), (155, 48824),

Gene: Bask21_80 Start: 49132, Stop: 49467, Start Num: 55

Candidate Starts for Bask21_80:

(6, 48880), (Start: 48 @49117 has 27 MA's), (Start: 55 @49132 has 110 MA's), (65, 49168), (82, 49222), (125, 49348), (136, 49384), (137, 49387), (145, 49405), (155, 49447),

Gene: Bask21_68 Start: 44476, Stop: 44889, Start Num: 45

Candidate Starts for Bask21_68:

(10, 44302), (Start: 45 @44476 has 135 MA's), (91, 44617), (100, 44659), (133, 44767), (145, 44806), (165, 44869),

Gene: Bask21_73 Start: 46758, Stop: 47129, Start Num: 54

Candidate Starts for Bask21_73:

(Start: 51 @46752 has 89 MA's), (Start: 54 @46758 has 44 MA's), (76, 46830), (91, 46890), (120, 46989), (143, 47061),

Gene: Baudelaire_65 Start: 44400, Stop: 44765, Start Num: 47

Candidate Starts for Baudelaire_65:

(Start: 47 @44400 has 3 MA's), (58, 44430), (82, 44502), (83, 44508), (121, 44622), (133, 44664), (160, 44751),

Gene: Bazzle_45 Start: 35592, Stop: 36008, Start Num: 22

Candidate Starts for Bazzle_45:

(Start: 19 @35583 has 10 MA's), (Start: 22 @35592 has 42 MA's), (Start: 56 @35679 has 17 MA's), (61, 35697), (70, 35724), (71, 35727), (92, 35802), (95, 35814), (123, 35874), (138, 35922), (157, 35985),

Gene: Becksu_72 Start: 47977, Stop: 48345, Start Num: 54

Candidate Starts for Becksu_72:

(Start: 51 @47971 has 89 MA's), (Start: 54 @47977 has 44 MA's), (76, 48049), (91, 48109), (143, 48277),

Gene: Becksu_79 Start: 50348, Stop: 50683, Start Num: 55

Candidate Starts for Becksu_79:

(6, 50096), (Start: 48 @50333 has 27 MA's), (Start: 55 @50348 has 110 MA's), (65, 50384), (155, 50663),

Gene: Becksu_67 Start: 45704, Stop: 46117, Start Num: 45

Candidate Starts for Becksu_67:

(10, 45530), (Start: 45 @45704 has 135 MA's), (91, 45845), (103, 45893), (117, 45941), (145, 46034), (165, 46097),

Gene: Beem_120 Start: 67476, Stop: 67796, Start Num: 44

Candidate Starts for Beem_120:

(Start: 44 @67476 has 30 MA's), (61, 67515), (92, 67614), (109, 67671), (118, 67707), (128, 67737), (139, 67782),

Gene: Beem_136 Start: 74259, Stop: 74618, Start Num: 46

Candidate Starts for Beem_136:

(31, 74232), (Start: 46 @74259 has 36 MA's), (Start: 51 @74268 has 89 MA's), (92, 74400), (96, 74415),

Gene: Bellis_42 Start: 35732, Stop: 36055, Start Num: 56

Candidate Starts for Bellis_42:

(Start: 18 @35627 has 3 MA's), (Start: 19 @35639 has 10 MA's), (Start: 22 @35648 has 42 MA's), (Start: 56 @35732 has 17 MA's), (61, 35750), (Start: 67 @35768 has 1 MA's), (70, 35777), (110, 35894), (157, 36032),

Gene: Bench_83 Start: 49816, Stop: 50148, Start Num: 55

Candidate Starts for Bench_83:

(1, 49246), (2, 49363), (6, 49564), (Start: 48 @49801 has 27 MA's), (Start: 55 @49816 has 110 MA's), (65, 49852), (155, 50128),

Gene: Bench_76 Start: 47439, Stop: 47813, Start Num: 51

Candidate Starts for Bench_76:

(Start: 51 @47439 has 89 MA's), (Start: 54 @47445 has 44 MA's), (76, 47517), (91, 47577), (143, 47745),

Gene: Bench_71 Start: 45175, Stop: 45585, Start Num: 45

Candidate Starts for Bench_71:

(10, 45001), (Start: 45 @45175 has 135 MA's), (91, 45316), (103, 45364), (117, 45412), (145, 45505), (155, 45547),

Gene: BigBubba_68 Start: 44884, Stop: 45294, Start Num: 45

Candidate Starts for BigBubba_68:

(Start: 45 @44884 has 135 MA's), (91, 45025), (103, 45073), (117, 45121), (145, 45214), (155, 45256),

Gene: BigBubba_73 Start: 47151, Stop: 47525, Start Num: 51

Candidate Starts for BigBubba_73:

(Start: 51 @47151 has 89 MA's), (Start: 54 @47157 has 44 MA's), (76, 47229), (91, 47289), (120, 47385), (143, 47457),

Gene: BigBubba_80 Start: 49528, Stop: 49860, Start Num: 55

Candidate Starts for BigBubba_80:

(6, 49276), (Start: 48 @49513 has 27 MA's), (Start: 55 @49528 has 110 MA's), (65, 49564), (155, 49840),

Gene: BigCheese_45 Start: 35356, Stop: 35772, Start Num: 22

Candidate Starts for BigCheese_45:

(Start: 19 @35347 has 10 MA's), (Start: 22 @35356 has 42 MA's), (Start: 56 @35443 has 17 MA's), (61, 35461), (70, 35488), (71, 35491), (92, 35566), (95, 35578), (138, 35686), (157, 35749),

Gene: BilboSwaggins_66 Start: 45513, Stop: 45923, Start Num: 45

Candidate Starts for BilboSwaggins_66:

(10, 45339), (Start: 45 @45513 has 135 MA's), (80, 45609), (91, 45654), (103, 45702), (117, 45750), (145, 45843), (155, 45885),

Gene: BilboSwaggins_71 Start: 47777, Stop: 48154, Start Num: 51

Candidate Starts for BilboSwaggins_71:

(Start: 51 @47777 has 89 MA's), (Start: 54 @47783 has 44 MA's), (76, 47855), (91, 47915), (143, 48086),

Gene: BilboSwaggins_78 Start: 50157, Stop: 50489, Start Num: 55

Candidate Starts for BilboSwaggins_78:

(6, 49905), (Start: 48 @50142 has 27 MA's), (Start: 55 @50157 has 110 MA's), (65, 50193), (155, 50469),

Gene: Bobby_126 Start: 74360, Stop: 74719, Start Num: 46

Candidate Starts for Bobby_126:

(31, 74333), (Start: 46 @74360 has 36 MA's), (Start: 51 @74369 has 89 MA's), (92, 74501), (96, 74516),

Gene: BobsGarage_45 Start: 35443, Stop: 35772, Start Num: 56

Candidate Starts for BobsGarage_45:

(Start: 19 @35347 has 10 MA's), (Start: 22 @35356 has 42 MA's), (Start: 56 @35443 has 17 MA's), (61, 35461), (70, 35488), (71, 35491), (92, 35566), (95, 35578), (138, 35686), (157, 35749),

Gene: Bogg_73 Start: 46724, Stop: 47092, Start Num: 54

Candidate Starts for Bogg_73:

(Start: 51 @46718 has 89 MA's), (Start: 54 @46724 has 44 MA's), (76, 46796), (91, 46856), (143, 47024),

Gene: Bogg_68 Start: 44454, Stop: 44864, Start Num: 45

Candidate Starts for Bogg_68:

(Start: 45 @44454 has 135 MA's), (91, 44595), (103, 44643), (117, 44691), (145, 44784), (155, 44826),

Gene: Bogg_80 Start: 49080, Stop: 49427, Start Num: 48

Candidate Starts for Bogg_80:

(6, 48843), (Start: 48 @49080 has 27 MA's), (Start: 55 @49095 has 110 MA's), (65, 49131), (155, 49407),

Gene: Bombitas_106 Start: 63398, Stop: 63718, Start Num: 44

Candidate Starts for Bombitas_106:

(Start: 44 @63398 has 30 MA's), (61, 63437), (92, 63536), (109, 63593), (118, 63629), (128, 63659), (139, 63704),

Gene: Bombitas_122 Start: 71670, Stop: 72029, Start Num: 46

Candidate Starts for Bombitas_122:

(31, 71643), (Start: 46 @71670 has 36 MA's), (Start: 51 @71679 has 89 MA's), (92, 71811), (96, 71826),

Gene: BourbonZero_41 Start: 35717, Stop: 36040, Start Num: 56

Candidate Starts for BourbonZero_41:

(Start: 18 @35609 has 3 MA's), (Start: 19 @35621 has 10 MA's), (Start: 22 @35630 has 42 MA's), (23, 35633), (Start: 56 @35717 has 17 MA's), (61, 35735), (Start: 67 @35753 has 1 MA's), (70, 35762), (110, 35879), (157, 36017),

Gene: BrainDrainer_43 Start: 34388, Stop: 34699, Start Num: 61

Candidate Starts for BrainDrainer_43:

(Start: 18 @34265 has 3 MA's), (Start: 19 @34277 has 10 MA's), (Start: 20 @34280 has 5 MA's), (Start: 56 @34370 has 17 MA's), (61, 34388), (70, 34415), (71, 34418), (92, 34493), (95, 34505), (138, 34613), (157, 34676), (164, 34691),

Gene: Breezona_45 Start: 35347, Stop: 35772, Start Num: 19

Candidate Starts for Breezona_45:

(Start: 19 @35347 has 10 MA's), (Start: 22 @35356 has 42 MA's), (Start: 56 @35443 has 17 MA's), (61, 35461), (70, 35488), (71, 35491), (92, 35566), (95, 35578), (138, 35686), (157, 35749),

Gene: Brewer_64 Start: 43971, Stop: 44381, Start Num: 45

Candidate Starts for Brewer_64:

(10, 43797), (Start: 45 @43971 has 135 MA's), (91, 44112), (103, 44160), (117, 44208), (145, 44301), (155, 44343),

Gene: Brewer_76 Start: 48618, Stop: 48950, Start Num: 55

Candidate Starts for Brewer_76:

(6, 48366), (Start: 48 @48603 has 27 MA's), (Start: 55 @48618 has 110 MA's), (65, 48654), (155, 48930),

Gene: Brewer_69 Start: 46238, Stop: 46615, Start Num: 51

Candidate Starts for Brewer_69:

(Start: 51 @46238 has 89 MA's), (Start: 54 @46244 has 44 MA's), (76, 46316), (91, 46376), (143, 46547),

Gene: Bromden_45 Start: 35106, Stop: 35519, Start Num: 20

Candidate Starts for Bromden_45:

(Start: 18 @35091 has 3 MA's), (Start: 19 @35103 has 10 MA's), (Start: 20 @35106 has 5 MA's), (Start: 22 @35112 has 42 MA's), (Start: 56 @35196 has 17 MA's), (61, 35214), (68, 35238), (70, 35241), (92, 35322), (157, 35496),

Gene: BronnyJames_131 Start: 71229, Stop: 71582, Start Num: 46

Candidate Starts for BronnyJames_131:

(Start: 46 @71229 has 36 MA's), (Start: 51 @71238 has 89 MA's), (92, 71364), (140, 71508),

Gene: BronnyJames_111 Start: 62319, Stop: 62642, Start Num: 44

Candidate Starts for BronnyJames_111:

(Start: 44 @62319 has 30 MA's), (61, 62358), (84, 62424), (90, 62445), (91, 62448), (96, 62475), (139, 62628),

Gene: Bruin_65 Start: 44048, Stop: 44461, Start Num: 45

Candidate Starts for Bruin_65:

(10, 43874), (Start: 45 @44048 has 135 MA's), (91, 44189), (103, 44237), (117, 44285), (145, 44378), (165, 44441),

Gene: Bruin_77 Start: 48677, Stop: 49027, Start Num: 48

Candidate Starts for Bruin_77:

(6, 48440), (Start: 48 @48677 has 27 MA's), (Start: 55 @48692 has 110 MA's), (65, 48728), (155, 49007),

Gene: Bruin_70 Start: 46315, Stop: 46689, Start Num: 51

Candidate Starts for Bruin_70:

(Start: 51 @46315 has 89 MA's), (Start: 54 @46321 has 44 MA's), (76, 46393), (91, 46453), (143, 46621),

Gene: BrutonGaster_97 Start: 63227, Stop: 63556, Start Num: 67

Candidate Starts for BrutonGaster_97:

(Start: 67 @63227 has 1 MA's), (87, 63293), (138, 63464), (169, 63551),

Gene: Buck_74 Start: 48026, Stop: 48394, Start Num: 51

Candidate Starts for Buck_74:

(Start: 51 @48026 has 89 MA's), (Start: 54 @48032 has 44 MA's), (76, 48104), (143, 48326),

Gene: Buck_69 Start: 45756, Stop: 46169, Start Num: 45

Candidate Starts for Buck_69:

(10, 45582), (Start: 45 @45756 has 135 MA's), (91, 45897), (100, 45939), (133, 46047), (145, 46086), (165, 46149),

Gene: Buck_81 Start: 50397, Stop: 50732, Start Num: 55

Candidate Starts for Buck_81:

(6, 50145), (Start: 48 @50382 has 27 MA's), (Start: 55 @50397 has 110 MA's), (65, 50433), (155, 50712),

Gene: Budgie_86 Start: 50187, Stop: 50519, Start Num: 55

Candidate Starts for Budgie_86:

(2, 49734), (6, 49935), (Start: 48 @50172 has 27 MA's), (Start: 55 @50187 has 110 MA's), (65, 50223), (118, 50382), (132, 50421), (136, 50436), (145, 50457), (149, 50466),

Gene: Budgie_74 Start: 45693, Stop: 46109, Start Num: 45

Candidate Starts for Budgie_74:

(10, 45519), (Start: 45 @45693 has 135 MA's), (91, 45834), (92, 45846), (100, 45876), (145, 46026), (157, 46074), (162, 46083),

Gene: Budgie_79 Start: 47813, Stop: 48184, Start Num: 54

Candidate Starts for Budgie_79:

(12, 47672), (Start: 51 @47807 has 89 MA's), (Start: 54 @47813 has 44 MA's), (62, 47840), (76, 47885), (91, 47945), (120, 48044), (143, 48116),

Gene: BugsBunny_80 Start: 50209, Stop: 50556, Start Num: 48

Candidate Starts for BugsBunny_80:

(6, 49972), (Start: 48 @50209 has 27 MA's), (Start: 55 @50224 has 110 MA's), (65, 50260), (155, 50536),

Gene: BugsBunny_73 Start: 47853, Stop: 48221, Start Num: 54

Candidate Starts for BugsBunny_73:

(Start: 51 @47847 has 89 MA's), (Start: 54 @47853 has 44 MA's), (76, 47925), (91, 47985), (143, 48153),

Gene: BugsBunny_68 Start: 45583, Stop: 45993, Start Num: 45

Candidate Starts for BugsBunny_68:

(Start: 45 @45583 has 135 MA's), (91, 45724), (103, 45772), (117, 45820), (145, 45913), (155, 45955),

Gene: Button_63 Start: 43199, Stop: 43654, Start Num: 16

Candidate Starts for Button_63:

(Start: 16 @43199 has 2 MA's), (33, 43241), (38, 43253), (Start: 55 @43289 has 110 MA's), (63, 43304), (74, 43346), (81, 43364), (96, 43421), (98, 43427), (113, 43484), (133, 43547), (139, 43571), (146, 43589),

Gene: Cactus_83 Start: 49173, Stop: 49508, Start Num: 55

Candidate Starts for Cactus_83:

(6, 48921), (Start: 48 @49158 has 27 MA's), (Start: 55 @49173 has 110 MA's), (65, 49209), (155, 49488),

Gene: Cactus_76 Start: 46793, Stop: 47170, Start Num: 51

Candidate Starts for Cactus_76:

(Start: 51 @46793 has 89 MA's), (Start: 54 @46799 has 44 MA's), (76, 46871), (91, 46931), (143, 47102),

Gene: Cactus_71 Start: 44529, Stop: 44939, Start Num: 45

Candidate Starts for Cactus_71:

(Start: 45 @44529 has 135 MA's), (91, 44670), (103, 44718), (117, 44766), (145, 44859), (155, 44901),

Gene: Calm_43 Start: 34040, Stop: 34456, Start Num: 22

Candidate Starts for Calm_43:

(Start: 18 @34019 has 3 MA's), (Start: 22 @34040 has 42 MA's), (Start: 47 @34106 has 3 MA's), (Start: 56 @34127 has 17 MA's), (61, 34145), (73, 34184), (78, 34196), (92, 34253), (119, 34313), (157, 34433),

Gene: Chaser_42 Start: 34097, Stop: 34510, Start Num: 20

Candidate Starts for Chaser_42:

(Start: 18 @34082 has 3 MA's), (Start: 19 @34094 has 10 MA's), (Start: 20 @34097 has 5 MA's),
(Start: 56 @34187 has 17 MA's), (61, 34205), (70, 34232), (71, 34235), (92, 34313), (123, 34376),
(145, 34439), (157, 34487),

Gene: ChosenOne_68 Start: 44532, Stop: 44942, Start Num: 45

Candidate Starts for ChosenOne_68:

(Start: 45 @44532 has 135 MA's), (91, 44673), (103, 44721), (117, 44769), (145, 44862), (155, 44904),

Gene: ChosenOne_80 Start: 49173, Stop: 49508, Start Num: 55

Candidate Starts for ChosenOne_80:

(6, 48921), (Start: 48 @49158 has 27 MA's), (Start: 55 @49173 has 110 MA's), (65, 49209), (155, 49488),

Gene: ChosenOne_73 Start: 46796, Stop: 47170, Start Num: 51

Candidate Starts for ChosenOne_73:

(Start: 51 @46796 has 89 MA's), (Start: 54 @46802 has 44 MA's), (76, 46874), (91, 46934), (143, 47102),

Gene: ChotaBhai_73 Start: 47117, Stop: 47494, Start Num: 51

Candidate Starts for ChotaBhai_73:

(Start: 51 @47117 has 89 MA's), (Start: 54 @47123 has 44 MA's), (76, 47195), (91, 47255), (120, 47354), (143, 47426),

Gene: ChotaBhai_80 Start: 49497, Stop: 49832, Start Num: 55

Candidate Starts for ChotaBhai_80:

(6, 49245), (Start: 48 @49482 has 27 MA's), (Start: 55 @49497 has 110 MA's), (65, 49533), (82, 49587), (125, 49713), (136, 49749), (137, 49752), (145, 49770), (155, 49812),

Gene: ChotaBhai_68 Start: 44844, Stop: 45257, Start Num: 45

Candidate Starts for ChotaBhai_68:

(10, 44670), (Start: 45 @44844 has 135 MA's), (91, 44985), (100, 45027), (133, 45135), (145, 45174), (162, 45231),

Gene: ChutneyChips_43 Start: 34367, Stop: 34690, Start Num: 56

Candidate Starts for ChutneyChips_43:

(Start: 18 @34262 has 3 MA's), (Start: 19 @34274 has 10 MA's), (Start: 20 @34277 has 5 MA's),
(Start: 56 @34367 has 17 MA's), (61, 34385), (70, 34412), (71, 34415), (92, 34493), (123, 34556),
(145, 34619), (157, 34667),

Gene: CicholasNage_43 Start: 34148, Stop: 34477, Start Num: 56

Candidate Starts for CicholasNage_43:

(Start: 18 @34040 has 3 MA's), (Start: 22 @34061 has 42 MA's), (Start: 47 @34127 has 3 MA's),
(Start: 56 @34148 has 17 MA's), (61, 34166), (73, 34205), (78, 34217), (92, 34274), (119, 34334),
(157, 34454),

Gene: Cjw1_80 Start: 50855, Stop: 51202, Start Num: 48

Candidate Starts for Cjw1_80:

(6, 50618), (Start: 48 @50855 has 27 MA's), (Start: 55 @50870 has 110 MA's), (65, 50906), (155, 51182),

Gene: Cjw1_73 Start: 48499, Stop: 48867, Start Num: 54

Candidate Starts for Cjw1_73:

(Start: 51 @48493 has 89 MA's), (Start: 54 @48499 has 44 MA's), (76, 48571), (91, 48631), (143, 48799),

Gene: Cjw1_68 Start: 46229, Stop: 46639, Start Num: 45

Candidate Starts for Cjw1_68:

(Start: 45 @46229 has 135 MA's), (91, 46370), (103, 46418), (117, 46466), (145, 46559), (155, 46601),

Gene: Claus_45 Start: 35375, Stop: 35791, Start Num: 22

Candidate Starts for Claus_45:

(Start: 19 @35366 has 10 MA's), (Start: 22 @35375 has 42 MA's), (Start: 56 @35462 has 17 MA's), (61, 35480), (70, 35507), (71, 35510), (92, 35588), (138, 35705), (157, 35768),

Gene: Clautastrophe_42 Start: 35625, Stop: 36053, Start Num: 18

Candidate Starts for Clautastrophe_42:

(Start: 18 @35625 has 3 MA's), (Start: 19 @35637 has 10 MA's), (Start: 22 @35646 has 42 MA's), (Start: 56 @35730 has 17 MA's), (61, 35748), (Start: 67 @35766 has 1 MA's), (70, 35775), (110, 35892), (157, 36030),

Gene: Command613_75 Start: 47838, Stop: 48209, Start Num: 54

Candidate Starts for Command613_75:

(Start: 51 @47832 has 89 MA's), (Start: 54 @47838 has 44 MA's), (76, 47910), (91, 47970), (143, 48141),

Gene: Command613_82 Start: 50197, Stop: 50547, Start Num: 48

Candidate Starts for Command613_82:

(6, 49960), (Start: 48 @50197 has 27 MA's), (Start: 55 @50212 has 110 MA's), (65, 50248), (155, 50527),

Gene: Command613_70 Start: 45568, Stop: 45978, Start Num: 45

Candidate Starts for Command613_70:

(10, 45394), (Start: 45 @45568 has 135 MA's), (91, 45709), (103, 45757), (117, 45805), (145, 45898), (155, 45940),

Gene: Constella_101 Start: 60252, Stop: 60566, Start Num: 44

Candidate Starts for Constella_101:

(Start: 44 @60252 has 30 MA's), (61, 60291), (69, 60318), (109, 60441), (139, 60552),

Gene: Constella_128 Start: 72912, Stop: 73271, Start Num: 46

Candidate Starts for Constella_128:

(31, 72885), (Start: 46 @72912 has 36 MA's), (Start: 51 @72921 has 89 MA's), (92, 73053), (96, 73068), (140, 73197), (143, 73203),

Gene: Contagion_69 Start: 46596, Stop: 46970, Start Num: 51

Candidate Starts for Contagion_69:

(Start: 51 @46596 has 89 MA's), (Start: 54 @46602 has 44 MA's), (76, 46674), (91, 46734), (143, 46902),

Gene: Contagion_64 Start: 44329, Stop: 44742, Start Num: 45

Candidate Starts for Contagion_64:

(10, 44155), (Start: 45 @44329 has 135 MA's), (91, 44470), (103, 44518), (117, 44566), (145, 44659), (165, 44722),

Gene: Contagion_76 Start: 48973, Stop: 49308, Start Num: 55

Candidate Starts for Contagion_76:

(6, 48721), (Start: 48 @48958 has 27 MA's), (Start: 55 @48973 has 110 MA's), (65, 49009), (155, 49288),

Gene: Cookies_77 Start: 49354, Stop: 49689, Start Num: 55

Candidate Starts for Cookies_77:

(6, 49102), (Start: 48 @49339 has 27 MA's), (Start: 55 @49354 has 110 MA's), (65, 49390), (82, 49444), (125, 49570), (136, 49606), (137, 49609), (145, 49627), (155, 49669),

Gene: Cookies_70 Start: 46974, Stop: 47351, Start Num: 51

Candidate Starts for Cookies_70:

(Start: 51 @46974 has 89 MA's), (Start: 54 @46980 has 44 MA's), (76, 47052), (91, 47112), (120, 47211), (143, 47283),

Gene: Cookies_65 Start: 44698, Stop: 45111, Start Num: 45

Candidate Starts for Cookies_65:

(10, 44524), (Start: 45 @44698 has 135 MA's), (91, 44839), (100, 44881), (133, 44989), (145, 45028),

Gene: Courthouse_108 Start: 61433, Stop: 61753, Start Num: 44

Candidate Starts for Courthouse_108:

(Start: 44 @61433 has 30 MA's), (61, 61472), (92, 61571), (109, 61628), (118, 61664), (128, 61694), (139, 61739),

Gene: Courthouse_129 Start: 69822, Stop: 70175, Start Num: 46

Candidate Starts for Courthouse_129:

(Start: 46 @69822 has 36 MA's), (Start: 51 @69831 has 89 MA's), (140, 70101),

Gene: Crossroads_45 Start: 35358, Stop: 35774, Start Num: 22

Candidate Starts for Crossroads_45:

(Start: 19 @35349 has 10 MA's), (Start: 22 @35358 has 42 MA's), (Start: 56 @35445 has 17 MA's), (61, 35463), (70, 35490), (71, 35493), (92, 35568), (95, 35580), (138, 35688), (157, 35751),

Gene: CrystalP_67 Start: 45513, Stop: 45923, Start Num: 45

Candidate Starts for CrystalP_67:

(10, 45339), (Start: 45 @45513 has 135 MA's), (80, 45609), (91, 45654), (103, 45702), (117, 45750), (145, 45843), (155, 45885),

Gene: CrystalP_72 Start: 47783, Stop: 48154, Start Num: 54

Candidate Starts for CrystalP_72:

(Start: 51 @47777 has 89 MA's), (Start: 54 @47783 has 44 MA's), (76, 47855), (91, 47915), (143, 48086),

Gene: CrystalP_79 Start: 50157, Stop: 50489, Start Num: 55

Candidate Starts for CrystalP_79:

(6, 49905), (Start: 48 @50142 has 27 MA's), (Start: 55 @50157 has 110 MA's), (65, 50193), (155, 50469),

Gene: Czyszczone1_69 Start: 45038, Stop: 45448, Start Num: 45

Candidate Starts for Czyszczone1_69:

(Start: 45 @45038 has 135 MA's), (91, 45179), (103, 45227), (117, 45275), (145, 45368), (155, 45410),

Gene: Czyszczone1_81 Start: 49679, Stop: 50011, Start Num: 55

Candidate Starts for Czyszczon1_81:
(6, 49427), (Start: 48 @49664 has 27 MA's), (Start: 55 @49679 has 110 MA's), (65, 49715), (155, 49991),

Gene: Czyszczon1_74 Start: 47302, Stop: 47676, Start Num: 51
Candidate Starts for Czyszczon1_74:
(Start: 51 @47302 has 89 MA's), (Start: 54 @47308 has 44 MA's), (76, 47380), (91, 47440), (143, 47608),

Gene: DHan_46 Start: 35403, Stop: 35732, Start Num: 56
Candidate Starts for DHan_46:
(Start: 19 @35307 has 10 MA's), (Start: 22 @35316 has 42 MA's), (Start: 56 @35403 has 17 MA's), (61, 35421), (70, 35448), (71, 35451), (92, 35529), (138, 35646), (157, 35709),

Gene: Daikon_82 Start: 50285, Stop: 50635, Start Num: 48
Candidate Starts for Daikon_82:
(6, 50048), (Start: 48 @50285 has 27 MA's), (Start: 55 @50300 has 110 MA's), (65, 50336), (155, 50615),

Gene: Daikon_75 Start: 47926, Stop: 48297, Start Num: 54
Candidate Starts for Daikon_75:
(Start: 51 @47920 has 89 MA's), (Start: 54 @47926 has 44 MA's), (76, 47998), (91, 48058), (143, 48229),

Gene: Daikon_70 Start: 45656, Stop: 46066, Start Num: 45
Candidate Starts for Daikon_70:
(Start: 45 @45656 has 135 MA's), (91, 45797), (103, 45845), (117, 45893), (145, 45986), (155, 46028),

Gene: Dallas_119 Start: 66991, Stop: 67311, Start Num: 44
Candidate Starts for Dallas_119:
(Start: 44 @66991 has 30 MA's), (61, 67030), (109, 67186), (118, 67222), (128, 67252), (139, 67297),

Gene: Dallas_135 Start: 73726, Stop: 74085, Start Num: 46
Candidate Starts for Dallas_135:
(31, 73699), (Start: 46 @73726 has 36 MA's), (Start: 51 @73735 has 89 MA's), (92, 73867), (96, 73882), (143, 74017),

Gene: DanBing_44 Start: 35295, Stop: 35624, Start Num: 56
Candidate Starts for DanBing_44:
(Start: 19 @35199 has 10 MA's), (Start: 22 @35208 has 42 MA's), (Start: 56 @35295 has 17 MA's), (61, 35313), (70, 35340), (71, 35343), (92, 35421), (138, 35538), (157, 35601),

Gene: Demikore_60 Start: 43030, Stop: 43398, Start Num: 45
Candidate Starts for Demikore_60:
(Start: 45 @43030 has 135 MA's), (92, 43159), (94, 43168), (126, 43264), (134, 43291),

Gene: DirkDirk_42 Start: 34012, Stop: 34428, Start Num: 22
Candidate Starts for DirkDirk_42:
(Start: 18 @33991 has 3 MA's), (Start: 22 @34012 has 42 MA's), (Start: 47 @34078 has 3 MA's), (Start: 56 @34099 has 17 MA's), (61, 34117), (73, 34156), (78, 34168), (92, 34225), (119, 34285), (157, 34405),

Gene: DmpstrDiver_134 Start: 73073, Stop: 73432, Start Num: 46

Candidate Starts for DmpstrDiver_134:

(31, 73046), (Start: 46 @73073 has 36 MA's), (Start: 51 @73082 has 89 MA's), (92, 73214), (96, 73229), (140, 73358), (143, 73364),

Gene: DmpstrDiver_119 Start: 66397, Stop: 66717, Start Num: 44

Candidate Starts for DmpstrDiver_119:

(Start: 44 @66397 has 30 MA's), (61, 66436), (109, 66592), (118, 66628), (128, 66658), (139, 66703),

Gene: DoctorDiddles_67 Start: 44888, Stop: 45301, Start Num: 45

Candidate Starts for DoctorDiddles_67:

(10, 44714), (Start: 45 @44888 has 135 MA's), (91, 45029), (100, 45071), (133, 45179), (145, 45218), (165, 45281),

Gene: DoctorDiddles_72 Start: 47167, Stop: 47538, Start Num: 54

Candidate Starts for DoctorDiddles_72:

(Start: 51 @47161 has 89 MA's), (Start: 54 @47167 has 44 MA's), (76, 47239), (91, 47299), (120, 47398), (143, 47470),

Gene: DoctorDiddles_79 Start: 49541, Stop: 49876, Start Num: 55

Candidate Starts for DoctorDiddles_79:

(6, 49289), (Start: 48 @49526 has 27 MA's), (Start: 55 @49541 has 110 MA's), (65, 49577), (82, 49631), (125, 49757), (136, 49793), (137, 49796), (145, 49814), (155, 49856),

Gene: Douge_42 Start: 34035, Stop: 34448, Start Num: 20

Candidate Starts for Douge_42:

(Start: 18 @34020 has 3 MA's), (Start: 19 @34032 has 10 MA's), (Start: 20 @34035 has 5 MA's), (Start: 56 @34125 has 17 MA's), (61, 34143), (70, 34170), (71, 34173), (92, 34251), (123, 34314), (145, 34377), (157, 34425),

Gene: Douzhi_42 Start: 34231, Stop: 34554, Start Num: 56

Candidate Starts for Douzhi_42:

(Start: 18 @34126 has 3 MA's), (Start: 19 @34138 has 10 MA's), (Start: 20 @34141 has 5 MA's), (Start: 56 @34231 has 17 MA's), (61, 34249), (70, 34276), (71, 34279), (92, 34357), (123, 34420), (145, 34483), (157, 34531),

Gene: Dove_120 Start: 68672, Stop: 69031, Start Num: 46

Candidate Starts for Dove_120:

(31, 68645), (Start: 46 @68672 has 36 MA's), (Start: 51 @68681 has 89 MA's), (92, 68813), (96, 68828), (140, 68957), (143, 68963),

Gene: Dove_104 Start: 61905, Stop: 62225, Start Num: 44

Candidate Starts for Dove_104:

(Start: 44 @61905 has 30 MA's), (61, 61944), (92, 62043), (109, 62100), (118, 62136), (128, 62166), (139, 62211),

Gene: DrDrey_80 Start: 50583, Stop: 50930, Start Num: 48

Candidate Starts for DrDrey_80:

(6, 50346), (Start: 48 @50583 has 27 MA's), (Start: 55 @50598 has 110 MA's), (65, 50634), (155, 50910),

Gene: DrDrey_68 Start: 45954, Stop: 46364, Start Num: 45

Candidate Starts for DrDrey_68:

(Start: 45 @45954 has 135 MA's), (91, 46095), (103, 46143), (117, 46191), (145, 46284), (155, 46326),

Gene: DrDrey_73 Start: 48218, Stop: 48595, Start Num: 51

Candidate Starts for DrDrey_73:

(Start: 51 @48218 has 89 MA's), (Start: 54 @48224 has 44 MA's), (76, 48296), (91, 48356), (143, 48527),

Gene: DrSeegs_45 Start: 35356, Stop: 35772, Start Num: 22

Candidate Starts for DrSeegs_45:

(Start: 19 @35347 has 10 MA's), (Start: 22 @35356 has 42 MA's), (Start: 56 @35443 has 17 MA's), (61, 35461), (70, 35488), (71, 35491), (92, 35566), (95, 35578), (138, 35686), (157, 35749),

Gene: Duke13_129 Start: 70374, Stop: 70733, Start Num: 46

Candidate Starts for Duke13_129:

(31, 70347), (Start: 46 @70374 has 36 MA's), (Start: 51 @70383 has 89 MA's), (92, 70515), (96, 70530), (140, 70659), (143, 70665),

Gene: Dumbo_73 Start: 46707, Stop: 47075, Start Num: 54

Candidate Starts for Dumbo_73:

(Start: 51 @46701 has 89 MA's), (Start: 54 @46707 has 44 MA's), (76, 46779), (91, 46839), (143, 47007),

Gene: Dumbo_68 Start: 44437, Stop: 44847, Start Num: 45

Candidate Starts for Dumbo_68:

(Start: 45 @44437 has 135 MA's), (91, 44578), (103, 44626), (117, 44674), (145, 44767), (155, 44809),

Gene: Dumbo_80 Start: 49063, Stop: 49413, Start Num: 48

Candidate Starts for Dumbo_80:

(6, 48826), (Start: 48 @49063 has 27 MA's), (Start: 55 @49078 has 110 MA's), (65, 49114), (155, 49393),

Gene: DuncansLeg_42 Start: 35754, Stop: 36077, Start Num: 56

Candidate Starts for DuncansLeg_42:

(Start: 18 @35646 has 3 MA's), (Start: 19 @35658 has 10 MA's), (Start: 22 @35667 has 42 MA's), (23, 35670), (Start: 56 @35754 has 17 MA's), (61, 35772), (Start: 67 @35790 has 1 MA's), (70, 35799), (110, 35916), (157, 36054),

Gene: Dusk_77 Start: 49378, Stop: 49713, Start Num: 55

Candidate Starts for Dusk_77:

(6, 49126), (Start: 48 @49363 has 27 MA's), (Start: 55 @49378 has 110 MA's), (65, 49414), (155, 49693),

Gene: Dusk_70 Start: 46998, Stop: 47375, Start Num: 51

Candidate Starts for Dusk_70:

(Start: 51 @46998 has 89 MA's), (Start: 54 @47004 has 44 MA's), (76, 47076), (91, 47136), (143, 47307),

Gene: Dusk_65 Start: 44734, Stop: 45144, Start Num: 45

Candidate Starts for Dusk_65:

(Start: 45 @44734 has 135 MA's), (91, 44875), (103, 44923), (117, 44971), (145, 45064), (155, 45106),

Gene: DyoEdafos_44 Start: 34357, Stop: 34776, Start Num: 20

Candidate Starts for DyoEdafos_44:

(Start: 18 @34342 has 3 MA's), (Start: 19 @34354 has 10 MA's), (Start: 20 @34357 has 5 MA's),
(Start: 56 @34447 has 17 MA's), (61, 34465), (70, 34492), (92, 34570), (123, 34642), (157, 34753),

Gene: Easy2Say_69 Start: 45975, Stop: 46385, Start Num: 45

Candidate Starts for Easy2Say_69:

(10, 45801), (Start: 45 @45975 has 135 MA's), (80, 46071), (91, 46116), (103, 46164), (117, 46212),
(145, 46305), (155, 46347),

Gene: Easy2Say_81 Start: 50622, Stop: 50954, Start Num: 55

Candidate Starts for Easy2Say_81:

(6, 50370), (Start: 48 @50607 has 27 MA's), (Start: 55 @50622 has 110 MA's), (65, 50658), (155,
50934),

Gene: Easy2Say_74 Start: 48248, Stop: 48619, Start Num: 54

Candidate Starts for Easy2Say_74:

(Start: 51 @48242 has 89 MA's), (Start: 54 @48248 has 44 MA's), (76, 48320), (91, 48380), (143,
48551),

Gene: Ejimix_128 Start: 73794, Stop: 74153, Start Num: 46

Candidate Starts for Ejimix_128:

(31, 73767), (Start: 46 @73794 has 36 MA's), (Start: 51 @73803 has 89 MA's), (92, 73935), (96,
73950), (143, 74085),

Gene: Ejimix_113 Start: 67525, Stop: 67845, Start Num: 44

Candidate Starts for Ejimix_113:

(Start: 44 @67525 has 30 MA's), (61, 67564), (109, 67720), (118, 67756), (128, 67786), (139, 67831),

Gene: Elite2014_72 Start: 46795, Stop: 47169, Start Num: 51

Candidate Starts for Elite2014_72:

(Start: 51 @46795 has 89 MA's), (Start: 54 @46801 has 44 MA's), (76, 46873), (91, 46933), (143,
47101),

Gene: Elite2014_67 Start: 44531, Stop: 44941, Start Num: 45

Candidate Starts for Elite2014_67:

(Start: 45 @44531 has 135 MA's), (91, 44672), (103, 44720), (117, 44768), (145, 44861), (155, 44903),

Gene: Elite2014_79 Start: 49172, Stop: 49507, Start Num: 55

Candidate Starts for Elite2014_79:

(6, 48920), (Start: 48 @49157 has 27 MA's), (Start: 55 @49172 has 110 MA's), (65, 49208), (155,
49487),

Gene: Ellson_42 Start: 35730, Stop: 36053, Start Num: 56

Candidate Starts for Ellson_42:

(Start: 18 @35622 has 3 MA's), (Start: 19 @35634 has 10 MA's), (Start: 22 @35643 has 42 MA's), (23,
35646), (Start: 56 @35730 has 17 MA's), (61, 35748), (Start: 67 @35766 has 1 MA's), (70, 35775),
(110, 35892), (157, 36030),

Gene: Elph10_80 Start: 49162, Stop: 49509, Start Num: 48

Candidate Starts for Elph10_80:

(6, 48925), (Start: 48 @49162 has 27 MA's), (Start: 55 @49177 has 110 MA's), (65, 49213), (155,
49489),

Gene: Elph10_68 Start: 44536, Stop: 44946, Start Num: 45

Candidate Starts for Elph10_68:

(Start: 45 @44536 has 135 MA's), (91, 44677), (103, 44725), (117, 44773), (145, 44866), (155, 44908),

Gene: Elph10_73 Start: 46806, Stop: 47174, Start Num: 54

Candidate Starts for Elph10_73:

(Start: 51 @46800 has 89 MA's), (Start: 54 @46806 has 44 MA's), (76, 46878), (91, 46938), (143, 47106),

Gene: Emmina_80 Start: 49079, Stop: 49411, Start Num: 55

Candidate Starts for Emmina_80:

(Start: 48 @49064 has 27 MA's), (Start: 55 @49079 has 110 MA's), (65, 49115), (155, 49391),

Gene: Emmina_68 Start: 44438, Stop: 44848, Start Num: 45

Candidate Starts for Emmina_68:

(10, 44264), (Start: 45 @44438 has 135 MA's), (91, 44579), (103, 44627), (117, 44675), (145, 44768), (155, 44810),

Gene: Emmina_73 Start: 46702, Stop: 47076, Start Num: 51

Candidate Starts for Emmina_73:

(Start: 51 @46702 has 89 MA's), (Start: 54 @46708 has 44 MA's), (76, 46780), (91, 46840), (143, 47008),

Gene: Enceladus_42 Start: 33995, Stop: 34411, Start Num: 22

Candidate Starts for Enceladus_42:

(Start: 18 @33974 has 3 MA's), (Start: 22 @33995 has 42 MA's), (Start: 47 @34061 has 3 MA's), (Start: 56 @34082 has 17 MA's), (61, 34100), (73, 34139), (78, 34151), (92, 34208), (119, 34268), (157, 34388),

Gene: EricMillard_126 Start: 72298, Stop: 72657, Start Num: 46

Candidate Starts for EricMillard_126:

(31, 72271), (Start: 46 @72298 has 36 MA's), (Start: 51 @72307 has 89 MA's), (92, 72439), (96, 72454), (140, 72583), (143, 72589),

Gene: Eureka_78 Start: 49628, Stop: 49975, Start Num: 48

Candidate Starts for Eureka_78:

(6, 49391), (Start: 48 @49628 has 27 MA's), (Start: 55 @49643 has 110 MA's), (65, 49679), (155, 49955),

Gene: Eureka_71 Start: 47272, Stop: 47640, Start Num: 54

Candidate Starts for Eureka_71:

(Start: 51 @47266 has 89 MA's), (Start: 54 @47272 has 44 MA's), (76, 47344), (91, 47404), (143, 47572),

Gene: Eureka_66 Start: 45002, Stop: 45412, Start Num: 45

Candidate Starts for Eureka_66:

(Start: 45 @45002 has 135 MA's), (91, 45143), (103, 45191), (117, 45239), (145, 45332), (155, 45374),

Gene: FairyPath_81 Start: 50291, Stop: 50626, Start Num: 55

Candidate Starts for FairyPath_81:

(6, 50039), (Start: 48 @50276 has 27 MA's), (Start: 55 @50291 has 110 MA's), (65, 50327), (111, 50468), (125, 50507), (136, 50543), (137, 50546), (145, 50564), (155, 50606),

Gene: FairyPath_69 Start: 45647, Stop: 46057, Start Num: 45

Candidate Starts for FairyPath_69:

(10, 45473), (Start: 45 @45647 has 135 MA's), (91, 45788), (103, 45836), (117, 45884), (145, 45977), (155, 46019),

Gene: FairyPath_74 Start: 47911, Stop: 48288, Start Num: 51

Candidate Starts for FairyPath_74:

(Start: 51 @47911 has 89 MA's), (Start: 54 @47917 has 44 MA's), (76, 47989), (91, 48049), (143, 48220),

Gene: Faith1_45 Start: 35347, Stop: 35772, Start Num: 19

Candidate Starts for Faith1_45:

(Start: 19 @35347 has 10 MA's), (Start: 22 @35356 has 42 MA's), (Start: 56 @35443 has 17 MA's), (61, 35461), (70, 35488), (71, 35491), (92, 35566), (95, 35578), (138, 35686), (157, 35749),

Gene: FarmResident_43 Start: 34169, Stop: 34492, Start Num: 56

Candidate Starts for FarmResident_43:

(Start: 18 @34064 has 3 MA's), (Start: 19 @34076 has 10 MA's), (Start: 20 @34079 has 5 MA's), (Start: 56 @34169 has 17 MA's), (61, 34187), (70, 34214), (71, 34217), (92, 34295), (123, 34358), (145, 34421), (157, 34469),

Gene: Filch_81 Start: 49104, Stop: 49436, Start Num: 55

Candidate Starts for Filch_81:

(6, 48852), (Start: 48 @49089 has 27 MA's), (Start: 55 @49104 has 110 MA's), (65, 49140), (155, 49416),

Gene: Filch_74 Start: 46733, Stop: 47101, Start Num: 54

Candidate Starts for Filch_74:

(Start: 51 @46727 has 89 MA's), (Start: 54 @46733 has 44 MA's), (76, 46805), (91, 46865), (143, 47033),

Gene: Filch_69 Start: 44463, Stop: 44873, Start Num: 45

Candidate Starts for Filch_69:

(Start: 45 @44463 has 135 MA's), (91, 44604), (103, 44652), (117, 44700), (145, 44793), (155, 44835),

Gene: Finemlucis_45 Start: 35623, Stop: 36048, Start Num: 19

Candidate Starts for Finemlucis_45:

(Start: 19 @35623 has 10 MA's), (Start: 22 @35632 has 42 MA's), (Start: 56 @35719 has 17 MA's), (61, 35737), (70, 35764), (71, 35767), (92, 35842), (95, 35854), (138, 35962), (157, 36025),

Gene: Finnry_42 Start: 35733, Stop: 36056, Start Num: 56

Candidate Starts for Finnry_42:

(Start: 18 @35628 has 3 MA's), (Start: 19 @35640 has 10 MA's), (Start: 22 @35649 has 42 MA's), (Start: 56 @35733 has 17 MA's), (61, 35751), (Start: 67 @35769 has 1 MA's), (70, 35778), (110, 35895), (157, 36033),

Gene: FireRed_84 Start: 50666, Stop: 51001, Start Num: 55

Candidate Starts for FireRed_84:

(1, 50096), (2, 50213), (6, 50414), (Start: 48 @50651 has 27 MA's), (Start: 55 @50666 has 110 MA's), (65, 50702), (155, 50981),

Gene: FireRed_72 Start: 46025, Stop: 46438, Start Num: 45

Candidate Starts for FireRed_72:

(10, 45851), (Start: 45 @46025 has 135 MA's), (91, 46166), (103, 46214), (117, 46262), (145, 46355), (165, 46418),

Gene: FireRed_77 Start: 48298, Stop: 48663, Start Num: 54

Candidate Starts for FireRed_77:

(Start: 51 @48292 has 89 MA's), (Start: 54 @48298 has 44 MA's), (76, 48370), (91, 48424), (143, 48595),

Gene: Flypotenuse_76 Start: 49163, Stop: 49498, Start Num: 55

Candidate Starts for Flypotenuse_76:

(6, 48911), (Start: 48 @49148 has 27 MA's), (Start: 55 @49163 has 110 MA's), (65, 49199), (155, 49478),

Gene: Flypotenuse_69 Start: 46783, Stop: 47160, Start Num: 51

Candidate Starts for Flypotenuse_69:

(Start: 51 @46783 has 89 MA's), (Start: 54 @46789 has 44 MA's), (76, 46861), (91, 46921), (143, 47092),

Gene: Flypotenuse_64 Start: 44519, Stop: 44929, Start Num: 45

Candidate Starts for Flypotenuse_64:

(Start: 45 @44519 has 135 MA's), (91, 44660), (103, 44708), (117, 44756), (145, 44849), (155, 44891),

Gene: FoghornLeghorn_62 Start: 43529, Stop: 43942, Start Num: 45

Candidate Starts for FoghornLeghorn_62:

(10, 43355), (Start: 45 @43529 has 135 MA's), (91, 43670), (100, 43712), (133, 43820), (145, 43859), (165, 43922),

Gene: FoghornLeghorn_67 Start: 45805, Stop: 46173, Start Num: 54

Candidate Starts for FoghornLeghorn_67:

(Start: 51 @45799 has 89 MA's), (Start: 54 @45805 has 44 MA's), (76, 45877), (91, 45937), (143, 46105),

Gene: FoghornLeghorn_74 Start: 48161, Stop: 48511, Start Num: 48

Candidate Starts for FoghornLeghorn_74:

(Start: 48 @48161 has 27 MA's), (Start: 55 @48176 has 110 MA's), (65, 48212), (82, 48266), (125, 48392), (136, 48428), (137, 48431), (145, 48449), (155, 48491),

Gene: Gabriela_45 Start: 35618, Stop: 36034, Start Num: 22

Candidate Starts for Gabriela_45:

(Start: 19 @35609 has 10 MA's), (Start: 22 @35618 has 42 MA's), (Start: 56 @35705 has 17 MA's), (61, 35723), (70, 35750), (71, 35753), (92, 35828), (95, 35840), (138, 35948), (157, 36011),

Gene: Gage_75 Start: 47576, Stop: 47953, Start Num: 51

Candidate Starts for Gage_75:

(Start: 51 @47576 has 89 MA's), (Start: 54 @47582 has 44 MA's), (76, 47654), (91, 47714), (143, 47885),

Gene: Gage_70 Start: 45309, Stop: 45719, Start Num: 45

Candidate Starts for Gage_70:

(10, 45135), (Start: 45 @45309 has 135 MA's), (91, 45450), (103, 45498), (117, 45546), (145, 45639), (155, 45681),

Gene: Gage_82 Start: 49956, Stop: 50291, Start Num: 55

Candidate Starts for Gage_82:

(6, 49704), (Start: 48 @49941 has 27 MA's), (Start: 55 @49956 has 110 MA's), (65, 49992), (155, 50271),

Gene: Gardann_45 Start: 35357, Stop: 35773, Start Num: 22

Candidate Starts for Gardann_45:

(Start: 19 @35348 has 10 MA's), (Start: 22 @35357 has 42 MA's), (Start: 56 @35444 has 17 MA's), (61, 35462), (70, 35489), (71, 35492), (92, 35567), (95, 35579), (138, 35687), (157, 35750),

Gene: Gator_66 Start: 45365, Stop: 45775, Start Num: 45

Candidate Starts for Gator_66:

(Start: 45 @45365 has 135 MA's), (91, 45506), (103, 45554), (117, 45602), (145, 45695), (155, 45737),

Gene: Gator_71 Start: 47629, Stop: 48006, Start Num: 51

Candidate Starts for Gator_71:

(Start: 51 @47629 has 89 MA's), (Start: 54 @47635 has 44 MA's), (76, 47707), (91, 47767), (143, 47938),

Gene: Gator_78 Start: 50009, Stop: 50341, Start Num: 55

Candidate Starts for Gator_78:

(6, 49757), (Start: 48 @49994 has 27 MA's), (Start: 55 @50009 has 110 MA's), (65, 50045), (155, 50321),

Gene: Gemini_73 Start: 45826, Stop: 46236, Start Num: 45

Candidate Starts for Gemini_73:

(10, 45652), (Start: 45 @45826 has 135 MA's), (91, 45967), (103, 46015), (117, 46063), (145, 46156), (155, 46198),

Gene: Gemini_78 Start: 48093, Stop: 48470, Start Num: 51

Candidate Starts for Gemini_78:

(Start: 51 @48093 has 89 MA's), (Start: 54 @48099 has 44 MA's), (76, 48171), (91, 48231), (143, 48402),

Gene: Gemini_85 Start: 50473, Stop: 50808, Start Num: 55

Candidate Starts for Gemini_85:

(6, 50221), (Start: 48 @50458 has 27 MA's), (Start: 55 @50473 has 110 MA's), (65, 50509), (155, 50788),

Gene: GiKK_67 Start: 44458, Stop: 44943, Start Num: 17

Candidate Starts for GiKK_67:

(3, 44224), (4, 44242), (7, 44332), (8, 44353), (Start: 17 @44458 has 4 MA's), (Start: 22 @44482 has 42 MA's), (33, 44521), (38, 44533), (74, 44635), (98, 44716), (113, 44773), (133, 44836), (139, 44860), (146, 44878),

Gene: Glexan_72 Start: 47913, Stop: 48290, Start Num: 51

Candidate Starts for Glexan_72:

(Start: 51 @47913 has 89 MA's), (Start: 54 @47919 has 44 MA's), (76, 47991), (91, 48051), (143, 48222),

Gene: Glexan_67 Start: 45646, Stop: 46059, Start Num: 45

Candidate Starts for Glexan_67:

(10, 45472), (Start: 45 @45646 has 135 MA's), (91, 45787), (100, 45829), (133, 45937), (145, 45976), (165, 46039),

Gene: Glexan_79 Start: 50293, Stop: 50628, Start Num: 55

Candidate Starts for Glexan_79:

(6, 50041), (Start: 48 @50278 has 27 MA's), (Start: 55 @50293 has 110 MA's), (65, 50329), (155, 50608),

Gene: Goku_66 Start: 44731, Stop: 45141, Start Num: 45

Candidate Starts for Goku_66:

(Start: 45 @44731 has 135 MA's), (91, 44872), (103, 44920), (117, 44968), (145, 45061), (155, 45103),

Gene: Goku_78 Start: 49357, Stop: 49704, Start Num: 48

Candidate Starts for Goku_78:

(6, 49120), (Start: 48 @49357 has 27 MA's), (Start: 55 @49372 has 110 MA's), (65, 49408), (155, 49684),

Gene: Goku_71 Start: 46995, Stop: 47369, Start Num: 51

Candidate Starts for Goku_71:

(Start: 51 @46995 has 89 MA's), (Start: 54 @47001 has 44 MA's), (76, 47073), (91, 47133), (143, 47301),

Gene: GoldenSpark_72 Start: 45309, Stop: 45719, Start Num: 45

Candidate Starts for GoldenSpark_72:

(10, 45135), (Start: 45 @45309 has 135 MA's), (91, 45450), (103, 45498), (117, 45546), (145, 45639), (155, 45681),

Gene: GoldenSpark_77 Start: 47582, Stop: 47953, Start Num: 54

Candidate Starts for GoldenSpark_77:

(Start: 51 @47576 has 89 MA's), (Start: 54 @47582 has 44 MA's), (76, 47654), (91, 47714), (143, 47885),

Gene: GoldenSpark_84 Start: 49941, Stop: 50291, Start Num: 48

Candidate Starts for GoldenSpark_84:

(6, 49704), (Start: 48 @49941 has 27 MA's), (Start: 55 @49956 has 110 MA's), (65, 49992), (155, 50271),

Gene: Goldilocks_76 Start: 47080, Stop: 47451, Start Num: 54

Candidate Starts for Goldilocks_76:

(Start: 51 @47074 has 89 MA's), (Start: 54 @47080 has 44 MA's), (76, 47152), (91, 47212), (143, 47383),

Gene: Goldilocks_71 Start: 44810, Stop: 45220, Start Num: 45

Candidate Starts for Goldilocks_71:

(10, 44636), (Start: 45 @44810 has 135 MA's), (91, 44951), (103, 44999), (117, 45047), (145, 45140), (155, 45182),

Gene: Goldilocks_83 Start: 49454, Stop: 49786, Start Num: 55

Candidate Starts for Goldilocks_83:

(6, 49202), (Start: 48 @49439 has 27 MA's), (Start: 55 @49454 has 110 MA's), (65, 49490), (155, 49766),

Gene: Gonephishing_128 Start: 69464, Stop: 69817, Start Num: 46

Candidate Starts for Gonephishing_128:

(Start: 46 @69464 has 36 MA's), (Start: 51 @69473 has 89 MA's), (140, 69743), (155, 69794),

Gene: Gonephishing_107 Start: 60857, Stop: 61180, Start Num: 44
Candidate Starts for Gonephishing_107:
(Start: 44 @60857 has 30 MA's), (61, 60896), (84, 60962), (90, 60983), (91, 60986), (96, 61013), (139, 61166),

Gene: GooberAzure_83 Start: 49956, Stop: 50291, Start Num: 55
Candidate Starts for GooberAzure_83:
(6, 49704), (Start: 48 @49941 has 27 MA's), (Start: 55 @49956 has 110 MA's), (65, 49992), (155, 50271),

Gene: GooberAzure_71 Start: 45309, Stop: 45719, Start Num: 45
Candidate Starts for GooberAzure_71:
(10, 45135), (Start: 45 @45309 has 135 MA's), (91, 45450), (103, 45498), (117, 45546), (145, 45639), (155, 45681),

Gene: GooberAzure_76 Start: 47576, Stop: 47953, Start Num: 51
Candidate Starts for GooberAzure_76:
(Start: 51 @47576 has 89 MA's), (Start: 54 @47582 has 44 MA's), (76, 47654), (91, 47714), (143, 47885),

Gene: Grayson_232 Start: 113102, Stop: 113485, Start Num: 41
Candidate Starts for Grayson_232:
(39, 113096), (Start: 41 @113102 has 5 MA's), (89, 113249), (102, 113288), (140, 113396), (159, 113456), (164, 113465),

Gene: Grayson_26 Start: 7449, Stop: 7075, Start Num: 43
Candidate Starts for Grayson_26:
(Start: 43 @7449 has 3 MA's), (93, 7281), (105, 7254), (124, 7209), (147, 7140),

Gene: Grayson_20 Start: 5707, Stop: 5357, Start Num: 48
Candidate Starts for Grayson_20:
(38, 5728), (Start: 48 @5707 has 27 MA's), (135, 5467),

Gene: Grayson_21 Start: 6068, Stop: 5700, Start Num: 48
Candidate Starts for Grayson_21:
(35, 6098), (36, 6092), (39, 6086), (Start: 48 @6068 has 27 MA's), (91, 5924), (93, 5909), (163, 5717),

Gene: Greep_72 Start: 46314, Stop: 46724, Start Num: 45
Candidate Starts for Greep_72:
(Start: 45 @46314 has 135 MA's), (91, 46455), (103, 46503), (117, 46551), (145, 46644), (155, 46686),

Gene: Greep_77 Start: 48584, Stop: 48952, Start Num: 54
Candidate Starts for Greep_77:
(Start: 51 @48578 has 89 MA's), (Start: 54 @48584 has 44 MA's), (76, 48656), (91, 48716), (143, 48884),

Gene: Greep_84 Start: 50955, Stop: 51287, Start Num: 55
Candidate Starts for Greep_84:
(6, 50703), (Start: 48 @50940 has 27 MA's), (Start: 55 @50955 has 110 MA's), (65, 50991), (155, 51267),

Gene: GuuelaD_44 Start: 35386, Stop: 35811, Start Num: 19

Candidate Starts for GuuelaD_44:

(Start: 19 @35386 has 10 MA's), (Start: 22 @35395 has 42 MA's), (Start: 56 @35482 has 17 MA's), (61, 35500), (70, 35527), (71, 35530), (92, 35605), (95, 35617), (138, 35725), (157, 35788),

Gene: Hafay_45 Start: 35477, Stop: 35806, Start Num: 56

Candidate Starts for Hafay_45:

(Start: 19 @35381 has 10 MA's), (Start: 22 @35390 has 42 MA's), (Start: 56 @35477 has 17 MA's), (61, 35495), (70, 35522), (71, 35525), (92, 35600), (95, 35612), (138, 35720), (157, 35783),

Gene: Halena_42 Start: 34036, Stop: 34452, Start Num: 22

Candidate Starts for Halena_42:

(Start: 18 @34015 has 3 MA's), (Start: 22 @34036 has 42 MA's), (Start: 47 @34102 has 3 MA's), (Start: 56 @34123 has 17 MA's), (61, 34141), (73, 34180), (78, 34192), (92, 34249), (119, 34309), (157, 34429),

Gene: Halley_121 Start: 67841, Stop: 68161, Start Num: 44

Candidate Starts for Halley_121:

(Start: 44 @67841 has 30 MA's), (61, 67880), (109, 68036), (118, 68072), (128, 68102), (139, 68147),

Gene: Halley_136 Start: 74110, Stop: 74469, Start Num: 46

Candidate Starts for Halley_136:

(31, 74083), (Start: 46 @74110 has 36 MA's), (Start: 51 @74119 has 89 MA's), (92, 74251), (96, 74266), (143, 74401),

Gene: HanKaySha_73 Start: 46880, Stop: 47254, Start Num: 51

Candidate Starts for HanKaySha_73:

(Start: 51 @46880 has 89 MA's), (Start: 54 @46886 has 44 MA's), (76, 46958), (91, 47018), (143, 47186),

Gene: HanKaySha_80 Start: 49257, Stop: 49589, Start Num: 55

Candidate Starts for HanKaySha_80:

(6, 49005), (Start: 48 @49242 has 27 MA's), (Start: 55 @49257 has 110 MA's), (65, 49293), (155, 49569),

Gene: HanKaySha_68 Start: 44616, Stop: 45026, Start Num: 45

Candidate Starts for HanKaySha_68:

(Start: 45 @44616 has 135 MA's), (91, 44757), (103, 44805), (117, 44853), (145, 44946), (155, 44988),

Gene: Hannaconda_104 Start: 59803, Stop: 60126, Start Num: 44

Candidate Starts for Hannaconda_104:

(Start: 44 @59803 has 30 MA's), (61, 59842), (84, 59908), (90, 59929), (91, 59932), (96, 59959), (139, 60112),

Gene: Hannaconda_127 Start: 70117, Stop: 70470, Start Num: 46

Candidate Starts for Hannaconda_127:

(Start: 46 @70117 has 36 MA's), (Start: 51 @70126 has 89 MA's), (140, 70396), (155, 70447),

Gene: Harella_68 Start: 46162, Stop: 46575, Start Num: 45

Candidate Starts for Harella_68:

(10, 45988), (Start: 45 @46162 has 135 MA's), (91, 46303), (100, 46345), (133, 46453), (145, 46492), (165, 46555),

Gene: Harella_80 Start: 50809, Stop: 51144, Start Num: 55

Candidate Starts for Harella_80:

(6, 50557), (Start: 48 @50794 has 27 MA's), (Start: 55 @50809 has 110 MA's), (65, 50845), (155, 51124),

Gene: Harella_73 Start: 48429, Stop: 48806, Start Num: 51

Candidate Starts for Harella_73:

(Start: 51 @48429 has 89 MA's), (Start: 54 @48435 has 44 MA's), (76, 48507), (91, 48567), (143, 48738),

Gene: Henry_78 Start: 49597, Stop: 49929, Start Num: 55

Candidate Starts for Henry_78:

(6, 49345), (Start: 48 @49582 has 27 MA's), (Start: 55 @49597 has 110 MA's), (65, 49633), (155, 49909),

Gene: Henry_66 Start: 44953, Stop: 45363, Start Num: 45

Candidate Starts for Henry_66:

(10, 44779), (Start: 45 @44953 has 135 MA's), (80, 45049), (91, 45094), (103, 45142), (117, 45190), (145, 45283), (155, 45325),

Gene: Henry_71 Start: 47217, Stop: 47594, Start Num: 51

Candidate Starts for Henry_71:

(Start: 51 @47217 has 89 MA's), (Start: 54 @47223 has 44 MA's), (76, 47295), (91, 47355), (143, 47526),

Gene: Hidrated_121 Start: 72693, Stop: 73052, Start Num: 46

Candidate Starts for Hidrated_121:

(31, 72666), (Start: 46 @72693 has 36 MA's), (Start: 51 @72702 has 89 MA's), (92, 72834), (96, 72849),

Gene: Highbury_72 Start: 46868, Stop: 47242, Start Num: 51

Candidate Starts for Highbury_72:

(Start: 51 @46868 has 89 MA's), (Start: 54 @46874 has 44 MA's), (76, 46946), (91, 47006), (143, 47174),

Gene: Highbury_79 Start: 49245, Stop: 49580, Start Num: 55

Candidate Starts for Highbury_79:

(6, 48993), (Start: 48 @49230 has 27 MA's), (Start: 55 @49245 has 110 MA's), (65, 49281), (155, 49560),

Gene: Highbury_67 Start: 44604, Stop: 45014, Start Num: 45

Candidate Starts for Highbury_67:

(Start: 45 @44604 has 135 MA's), (91, 44745), (103, 44793), (117, 44841), (145, 44934), (155, 44976),

Gene: HokkenD_108 Start: 64913, Stop: 65233, Start Num: 44

Candidate Starts for HokkenD_108:

(Start: 44 @64913 has 30 MA's), (61, 64952), (92, 65051), (109, 65108), (118, 65144), (128, 65174), (139, 65219),

Gene: HokkenD_126 Start: 72994, Stop: 73353, Start Num: 46

Candidate Starts for HokkenD_126:

(31, 72967), (Start: 46 @72994 has 36 MA's), (Start: 51 @73003 has 89 MA's), (92, 73135), (96, 73150), (140, 73279), (143, 73285),

Gene: Holt_85 Start: 50370, Stop: 50705, Start Num: 55

Candidate Starts for Holt_85:

(6, 50118), (Start: 48 @50355 has 27 MA's), (Start: 55 @50370 has 110 MA's), (65, 50406), (155, 50685),

Gene: Holt_78 Start: 47990, Stop: 48367, Start Num: 51

Candidate Starts for Holt_78:

(Start: 51 @47990 has 89 MA's), (Start: 54 @47996 has 44 MA's), (76, 48068), (91, 48128), (143, 48299),

Gene: Holt_73 Start: 45723, Stop: 46133, Start Num: 45

Candidate Starts for Holt_73:

(10, 45549), (Start: 45 @45723 has 135 MA's), (91, 45864), (103, 45912), (117, 45960), (145, 46053), (155, 46095),

Gene: Hoonter_71 Start: 45309, Stop: 45719, Start Num: 45

Candidate Starts for Hoonter_71:

(10, 45135), (Start: 45 @45309 has 135 MA's), (91, 45450), (103, 45498), (117, 45546), (145, 45639), (155, 45681),

Gene: Hoonter_76 Start: 47576, Stop: 47953, Start Num: 51

Candidate Starts for Hoonter_76:

(Start: 51 @47576 has 89 MA's), (Start: 54 @47582 has 44 MA's), (76, 47654), (91, 47714), (143, 47885),

Gene: Hoonter_83 Start: 49956, Stop: 50288, Start Num: 55

Candidate Starts for Hoonter_83:

(1, 49386), (2, 49503), (6, 49704), (Start: 48 @49941 has 27 MA's), (Start: 55 @49956 has 110 MA's), (65, 49992), (155, 50268),

Gene: Hoopy_68 Start: 45148, Stop: 45558, Start Num: 45

Candidate Starts for Hoopy_68:

(Start: 45 @45148 has 135 MA's), (91, 45289), (103, 45337), (117, 45385), (145, 45478), (155, 45520),

Gene: Hoopy_80 Start: 49789, Stop: 50121, Start Num: 55

Candidate Starts for Hoopy_80:

(6, 49537), (Start: 48 @49774 has 27 MA's), (Start: 55 @49789 has 110 MA's), (65, 49825), (155, 50101),

Gene: Hoopy_73 Start: 47412, Stop: 47786, Start Num: 51

Candidate Starts for Hoopy_73:

(Start: 51 @47412 has 89 MA's), (Start: 54 @47418 has 44 MA's), (76, 47490), (91, 47550), (143, 47718),

Gene: HufflyPuff_83 Start: 50607, Stop: 50954, Start Num: 48

Candidate Starts for HufflyPuff_83:

(Start: 48 @50607 has 27 MA's), (Start: 55 @50622 has 110 MA's), (65, 50658), (155, 50934),

Gene: HufflyPuff_71 Start: 45981, Stop: 46391, Start Num: 45

Candidate Starts for HufflyPuff_71:

(Start: 45 @45981 has 135 MA's), (91, 46122), (103, 46170), (117, 46218), (145, 46311), (155, 46353),

Gene: HufflyPuff_76 Start: 48245, Stop: 48619, Start Num: 51

Candidate Starts for HufflyPuff_76:

(Start: 51 @48245 has 89 MA's), (Start: 54 @48251 has 44 MA's), (76, 48323), (91, 48383), (143, 48551),

Gene: Hughesyang_134 Start: 73880, Stop: 74239, Start Num: 46

Candidate Starts for Hughesyang_134:

(31, 73853), (Start: 46 @73880 has 36 MA's), (Start: 51 @73889 has 89 MA's), (92, 74021), (96, 74036), (140, 74165), (143, 74171),

Gene: Hughesyang_118 Start: 67297, Stop: 67617, Start Num: 44

Candidate Starts for Hughesyang_118:

(Start: 44 @67297 has 30 MA's), (61, 67336), (109, 67492), (118, 67528), (128, 67558), (139, 67603),

Gene: IHOP_71 Start: 47341, Stop: 47718, Start Num: 51

Candidate Starts for IHOP_71:

(Start: 51 @47341 has 89 MA's), (Start: 54 @47347 has 44 MA's), (76, 47419), (91, 47479), (143, 47650),

Gene: IHOP_66 Start: 45077, Stop: 45487, Start Num: 45

Candidate Starts for IHOP_66:

(Start: 45 @45077 has 135 MA's), (91, 45218), (103, 45266), (117, 45314), (145, 45407), (155, 45449),

Gene: IHOP_78 Start: 49721, Stop: 50053, Start Num: 55

Candidate Starts for IHOP_78:

(6, 49469), (Start: 48 @49706 has 27 MA's), (Start: 55 @49721 has 110 MA's), (65, 49757), (155, 50033),

Gene: Icee_69 Start: 44976, Stop: 45386, Start Num: 45

Candidate Starts for Icee_69:

(Start: 45 @44976 has 135 MA's), (91, 45117), (103, 45165), (117, 45213), (145, 45306), (155, 45348),

Gene: Icee_74 Start: 47246, Stop: 47617, Start Num: 54

Candidate Starts for Icee_74:

(Start: 51 @47240 has 89 MA's), (Start: 54 @47246 has 44 MA's), (76, 47318), (91, 47378), (143, 47549),

Gene: Icee_81 Start: 49620, Stop: 49955, Start Num: 55

Candidate Starts for Icee_81:

(6, 49368), (Start: 48 @49605 has 27 MA's), (Start: 55 @49620 has 110 MA's), (65, 49656), (155, 49935),

Gene: Inca_70 Start: 45869, Stop: 46243, Start Num: 51

Candidate Starts for Inca_70:

(Start: 51 @45869 has 89 MA's), (Start: 54 @45875 has 44 MA's), (76, 45947), (91, 46007), (143, 46175),

Gene: Inca_77 Start: 48246, Stop: 48581, Start Num: 55

Candidate Starts for Inca_77:

(6, 47994), (Start: 48 @48231 has 27 MA's), (Start: 55 @48246 has 110 MA's), (65, 48282), (155, 48561),

Gene: Inca_65 Start: 43602, Stop: 44012, Start Num: 45

Candidate Starts for Inca_65:

(10, 43428), (Start: 45 @43602 has 135 MA's), (91, 43743), (103, 43791), (117, 43839), (145, 43932), (155, 43974),

Gene: Itos_44 Start: 34253, Stop: 34678, Start Num: 19

Candidate Starts for Itos_44:

(Start: 19 @34253 has 10 MA's), (Start: 22 @34262 has 42 MA's), (Start: 56 @34349 has 17 MA's), (61, 34367), (70, 34394), (71, 34397), (92, 34472), (95, 34484), (138, 34592), (157, 34655),

Gene: Jamzy_67 Start: 44194, Stop: 44679, Start Num: 17

Candidate Starts for Jamzy_67:

(3, 43960), (4, 43978), (7, 44068), (8, 44089), (Start: 17 @44194 has 4 MA's), (Start: 22 @44218 has 42 MA's), (33, 44257), (38, 44269), (74, 44371), (98, 44452), (133, 44572), (139, 44596), (146, 44614),

Gene: JeTaime_73 Start: 48064, Stop: 48435, Start Num: 51

Candidate Starts for JeTaime_73:

(Start: 51 @48064 has 89 MA's), (Start: 54 @48070 has 44 MA's), (76, 48142), (91, 48196), (143, 48367),

Gene: JeTaime_80 Start: 50438, Stop: 50770, Start Num: 55

Candidate Starts for JeTaime_80:

(6, 50186), (Start: 48 @50423 has 27 MA's), (Start: 55 @50438 has 110 MA's), (65, 50474), (155, 50750),

Gene: JeTaime_68 Start: 45800, Stop: 46210, Start Num: 45

Candidate Starts for JeTaime_68:

(10, 45626), (Start: 45 @45800 has 135 MA's), (91, 45941), (103, 45989), (117, 46037), (145, 46130), (155, 46172),

Gene: Jobypre_42 Start: 35730, Stop: 36053, Start Num: 56

Candidate Starts for Jobypre_42:

(Start: 18 @35625 has 3 MA's), (Start: 19 @35637 has 10 MA's), (Start: 22 @35646 has 42 MA's), (Start: 56 @35730 has 17 MA's), (61, 35748), (Start: 67 @35766 has 1 MA's), (70, 35775), (110, 35892), (157, 36030),

Gene: JoeDirt_42 Start: 33993, Stop: 34409, Start Num: 22

Candidate Starts for JoeDirt_42:

(Start: 18 @33972 has 3 MA's), (Start: 22 @33993 has 42 MA's), (Start: 47 @34059 has 3 MA's), (Start: 56 @34080 has 17 MA's), (61, 34098), (73, 34137), (78, 34149), (92, 34206), (119, 34266), (157, 34386),

Gene: Jubie_42 Start: 35647, Stop: 36054, Start Num: 22

Candidate Starts for Jubie_42:

(Start: 18 @35626 has 3 MA's), (Start: 19 @35638 has 10 MA's), (Start: 22 @35647 has 42 MA's), (Start: 56 @35731 has 17 MA's), (61, 35749), (Start: 67 @35767 has 1 MA's), (70, 35776), (110, 35893), (157, 36031),

Gene: JuicyJay_115 Start: 68611, Stop: 68931, Start Num: 44

Candidate Starts for JuicyJay_115:

(Start: 44 @68611 has 30 MA's), (61, 68650), (92, 68749), (109, 68806), (118, 68842), (128, 68872), (139, 68917),

Gene: JuicyJay_131 Start: 75395, Stop: 75754, Start Num: 46

Candidate Starts for JuicyJay_131:

(31, 75368), (Start: 46 @75395 has 36 MA's), (Start: 51 @75404 has 89 MA's), (92, 75536), (96, 75551),

Gene: Kahlid_45 Start: 35362, Stop: 35778, Start Num: 22

Candidate Starts for Kahlid_45:

(Start: 19 @35353 has 10 MA's), (Start: 22 @35362 has 42 MA's), (Start: 56 @35449 has 17 MA's), (61, 35467), (70, 35494), (71, 35497), (92, 35572), (95, 35584), (138, 35692), (157, 35755),

Gene: Kanye_65 Start: 44658, Stop: 45068, Start Num: 45

Candidate Starts for Kanye_65:

(Start: 45 @44658 has 135 MA's), (91, 44799), (103, 44847), (117, 44895), (145, 44988), (155, 45030),

Gene: Kanye_70 Start: 46922, Stop: 47299, Start Num: 51

Candidate Starts for Kanye_70:

(Start: 51 @46922 has 89 MA's), (Start: 54 @46928 has 44 MA's), (76, 47000), (91, 47060), (143, 47231),

Gene: Kanye_77 Start: 49302, Stop: 49637, Start Num: 55

Candidate Starts for Kanye_77:

(6, 49050), (Start: 48 @49287 has 27 MA's), (Start: 55 @49302 has 110 MA's), (65, 49338), (155, 49617),

Gene: KashFlow_110 Start: 62308, Stop: 62631, Start Num: 44

Candidate Starts for KashFlow_110:

(Start: 44 @62308 has 30 MA's), (61, 62347), (84, 62413), (90, 62434), (91, 62437), (96, 62464), (139, 62617),

Gene: KashFlow_131 Start: 71552, Stop: 71905, Start Num: 46

Candidate Starts for KashFlow_131:

(Start: 46 @71552 has 36 MA's), (Start: 51 @71561 has 89 MA's), (140, 71831), (155, 71882),

Gene: Kimchi_84 Start: 49959, Stop: 50294, Start Num: 55

Candidate Starts for Kimchi_84:

(6, 49707), (Start: 48 @49944 has 27 MA's), (Start: 55 @49959 has 110 MA's), (65, 49995), (155, 50274),

Gene: Kimchi_77 Start: 47579, Stop: 47956, Start Num: 51

Candidate Starts for Kimchi_77:

(Start: 51 @47579 has 89 MA's), (Start: 54 @47585 has 44 MA's), (76, 47657), (91, 47717), (143, 47888),

Gene: Kimchi_72 Start: 45312, Stop: 45722, Start Num: 45

Candidate Starts for Kimchi_72:

(10, 45138), (Start: 45 @45312 has 135 MA's), (91, 45453), (103, 45501), (117, 45549), (145, 45642), (155, 45684),

Gene: Kingsolomon_42 Start: 35730, Stop: 36053, Start Num: 56

Candidate Starts for Kingsolomon_42:

(Start: 18 @35625 has 3 MA's), (Start: 19 @35637 has 10 MA's), (Start: 22 @35646 has 42 MA's), (Start: 56 @35730 has 17 MA's), (61, 35748), (Start: 67 @35766 has 1 MA's), (70, 35775), (110, 35892), (157, 36030),

Gene: KirDoubleO7_40 Start: 35758, Stop: 36081, Start Num: 56

Candidate Starts for KirDoubleO7_40:

(Start: 18 @35650 has 3 MA's), (Start: 19 @35662 has 10 MA's), (Start: 22 @35671 has 42 MA's), (23, 35674), (Start: 56 @35758 has 17 MA's), (61, 35776), (Start: 67 @35794 has 1 MA's), (70, 35803), (110, 35920), (157, 36058),

Gene: Klein_131 Start: 71031, Stop: 71390, Start Num: 46

Candidate Starts for Klein_131:

(31, 71004), (Start: 46 @71031 has 36 MA's), (Start: 51 @71040 has 89 MA's), (92, 71172), (96, 71187), (140, 71316), (143, 71322),

Gene: Kostya_80 Start: 49805, Stop: 50155, Start Num: 48

Candidate Starts for Kostya_80:

(6, 49568), (Start: 48 @49805 has 27 MA's), (Start: 55 @49820 has 110 MA's), (65, 49856), (155, 50135),

Gene: Kostya_73 Start: 47446, Stop: 47817, Start Num: 54

Candidate Starts for Kostya_73:

(Start: 51 @47440 has 89 MA's), (Start: 54 @47446 has 44 MA's), (76, 47518), (91, 47578), (143, 47749),

Gene: Kostya_68 Start: 45176, Stop: 45586, Start Num: 45

Candidate Starts for Kostya_68:

(Start: 45 @45176 has 135 MA's), (91, 45317), (103, 45365), (117, 45413), (145, 45506), (155, 45548),

Gene: Kropertea_43 Start: 34180, Stop: 34599, Start Num: 20

Candidate Starts for Kropertea_43:

(Start: 18 @34165 has 3 MA's), (Start: 19 @34177 has 10 MA's), (Start: 20 @34180 has 5 MA's), (Start: 56 @34270 has 17 MA's), (61, 34288), (70, 34315), (92, 34393), (123, 34465), (157, 34576),

Gene: Krypton555_42 Start: 35542, Stop: 35970, Start Num: 18

Candidate Starts for Krypton555_42:

(Start: 18 @35542 has 3 MA's), (Start: 19 @35554 has 10 MA's), (Start: 22 @35563 has 42 MA's), (Start: 56 @35647 has 17 MA's), (61, 35665), (Start: 67 @35683 has 1 MA's), (70, 35692), (110, 35809), (157, 35947),

Gene: Labelle_59 Start: 43035, Stop: 43403, Start Num: 45

Candidate Starts for Labelle_59:

(Start: 45 @43035 has 135 MA's), (Start: 56 @43056 has 17 MA's), (92, 43164), (94, 43173), (126, 43269), (134, 43296),

Gene: LeBron_43 Start: 34037, Stop: 34453, Start Num: 22

Candidate Starts for LeBron_43:

(Start: 18 @34016 has 3 MA's), (Start: 22 @34037 has 42 MA's), (Start: 47 @34103 has 3 MA's), (Start: 56 @34124 has 17 MA's), (61, 34142), (73, 34181), (78, 34193), (92, 34250), (119, 34310), (157, 34430),

Gene: Lewan_45 Start: 35349, Stop: 35765, Start Num: 22

Candidate Starts for Lewan_45:

(Start: 19 @35340 has 10 MA's), (Start: 22 @35349 has 42 MA's), (Start: 56 @35436 has 17 MA's), (61, 35454), (70, 35481), (71, 35484), (92, 35559), (95, 35571), (138, 35679), (157, 35742),

Gene: LilDestine_45 Start: 35354, Stop: 35770, Start Num: 22

Candidate Starts for LilDestine_45:

(Start: 19 @35345 has 10 MA's), (Start: 22 @35354 has 42 MA's), (Start: 56 @35441 has 17 MA's), (61, 35459), (70, 35486), (71, 35489), (92, 35564), (95, 35576), (138, 35684), (157, 35747),

Gene: LilJank_52 Start: 37710, Stop: 38108, Start Num: 29

Candidate Starts for LilJank_52:

(Start: 29 @37710 has 3 MA's), (42, 37740), (59, 37776), (60, 37779), (63, 37785), (69, 37809), (94, 37896), (105, 37917), (114, 37941), (136, 38016), (147, 38040), (163, 38094), (167, 38100),

Gene: LilJank_45 Start: 35208, Stop: 35594, Start Num: 37

Candidate Starts for LilJank_45:

(Start: 32 @35196 has 3 MA's), (37, 35208), (Start: 47 @35226 has 3 MA's), (59, 35259), (83, 35340), (96, 35400), (117, 35451), (144, 35529), (153, 35556), (157, 35577),

Gene: Lilac_82 Start: 49574, Stop: 49906, Start Num: 55

Candidate Starts for Lilac_82:

(6, 49322), (Start: 48 @49559 has 27 MA's), (Start: 55 @49574 has 110 MA's), (65, 49610), (155, 49886),

Gene: Lilac_75 Start: 47197, Stop: 47571, Start Num: 51

Candidate Starts for Lilac_75:

(Start: 51 @47197 has 89 MA's), (Start: 54 @47203 has 44 MA's), (76, 47275), (91, 47335), (143, 47503),

Gene: Lilac_70 Start: 44933, Stop: 45343, Start Num: 45

Candidate Starts for Lilac_70:

(Start: 45 @44933 has 135 MA's), (91, 45074), (103, 45122), (117, 45170), (145, 45263), (155, 45305),

Gene: Lilizi_74 Start: 46910, Stop: 47284, Start Num: 51

Candidate Starts for Lilizi_74:

(Start: 51 @46910 has 89 MA's), (Start: 54 @46916 has 44 MA's), (76, 46988), (91, 47048), (143, 47216),

Gene: Lilizi_69 Start: 44646, Stop: 45056, Start Num: 45

Candidate Starts for Lilizi_69:

(10, 44472), (Start: 45 @44646 has 135 MA's), (91, 44787), (103, 44835), (117, 44883), (145, 44976), (155, 45018),

Gene: Lilizi_81 Start: 49287, Stop: 49619, Start Num: 55

Candidate Starts for Lilizi_81:

(1, 48717), (2, 48834), (6, 49035), (Start: 48 @49272 has 27 MA's), (Start: 55 @49287 has 110 MA's), (65, 49323), (155, 49599),

Gene: Lilpickle_67 Start: 44531, Stop: 44941, Start Num: 45

Candidate Starts for Lilpickle_67:

(Start: 45 @44531 has 135 MA's), (91, 44672), (103, 44720), (117, 44768), (145, 44861), (155, 44903),

Gene: Lilpickle_72 Start: 46795, Stop: 47169, Start Num: 51

Candidate Starts for Lilpickle_72:

(Start: 51 @46795 has 89 MA's), (Start: 54 @46801 has 44 MA's), (76, 46873), (91, 46933), (143, 47101),

Gene: Lilpickle_79 Start: 49172, Stop: 49507, Start Num: 55

Candidate Starts for Lilpickle_79:

(6, 48920), (Start: 48 @49157 has 27 MA's), (Start: 55 @49172 has 110 MA's), (65, 49208), (155, 49487),

Gene: LittleE_136 Start: 72806, Stop: 73159, Start Num: 46

Candidate Starts for LittleE_136:

(Start: 46 @72806 has 36 MA's), (Start: 51 @72815 has 89 MA's),

Gene: LittleE_118 Start: 65723, Stop: 66046, Start Num: 44

Candidate Starts for LittleE_118:

(Start: 44 @65723 has 30 MA's), (61, 65762), (84, 65828), (90, 65849), (91, 65852), (96, 65879), (139, 66032),

Gene: Livelyaughbron_75 Start: 48379, Stop: 48747, Start Num: 54

Candidate Starts for Livelyaughbron_75:

(Start: 51 @48373 has 89 MA's), (Start: 54 @48379 has 44 MA's), (76, 48451), (91, 48511), (143, 48679),

Gene: Livelyaughbron_82 Start: 50750, Stop: 51082, Start Num: 55

Candidate Starts for Livelyaughbron_82:

(6, 50498), (Start: 48 @50735 has 27 MA's), (Start: 55 @50750 has 110 MA's), (65, 50786), (155, 51062),

Gene: Livelyaughbron_70 Start: 46109, Stop: 46519, Start Num: 45

Candidate Starts for Livelyaughbron_70:

(Start: 45 @46109 has 135 MA's), (91, 46250), (103, 46298), (117, 46346), (145, 46439), (155, 46481),

Gene: LiyuLake_42 Start: 35720, Stop: 36043, Start Num: 56

Candidate Starts for LiyuLake_42:

(Start: 18 @35612 has 3 MA's), (Start: 19 @35624 has 10 MA's), (Start: 22 @35633 has 42 MA's), (23, 35636), (Start: 56 @35720 has 17 MA's), (61, 35738), (Start: 67 @35756 has 1 MA's), (70, 35765), (110, 35882), (157, 36020),

Gene: Loadrie_44 Start: 35379, Stop: 35804, Start Num: 19

Candidate Starts for Loadrie_44:

(Start: 19 @35379 has 10 MA's), (Start: 22 @35388 has 42 MA's), (Start: 56 @35475 has 17 MA's), (61, 35493), (70, 35520), (71, 35523), (92, 35598), (95, 35610), (138, 35718), (157, 35781),

Gene: Lolly9_42 Start: 35541, Stop: 35864, Start Num: 56

Candidate Starts for Lolly9_42:

(Start: 18 @35436 has 3 MA's), (Start: 22 @35457 has 42 MA's), (Start: 56 @35541 has 17 MA's), (61, 35559), (Start: 67 @35577 has 1 MA's), (70, 35586), (110, 35703), (157, 35841),

Gene: Lucky2013_128 Start: 69682, Stop: 70035, Start Num: 46

Candidate Starts for Lucky2013_128:

(Start: 46 @69682 has 36 MA's), (Start: 51 @69691 has 89 MA's), (140, 69961), (155, 70012),

Gene: Lucky2013_110 Start: 61874, Stop: 62194, Start Num: 44

Candidate Starts for Lucky2013_110:

(Start: 44 @61874 has 30 MA's), (61, 61913), (92, 62012), (109, 62069), (118, 62105), (128, 62135), (139, 62180),

Gene: Lumos_42 Start: 35643, Stop: 36050, Start Num: 22

Candidate Starts for Lumos_42:

(Start: 18 @35622 has 3 MA's), (Start: 19 @35634 has 10 MA's), (Start: 22 @35643 has 42 MA's), (Start: 56 @35727 has 17 MA's), (61, 35745), (Start: 67 @35763 has 1 MA's), (70, 35772), (110, 35889), (157, 36027),

Gene: Lynnae_45 Start: 35432, Stop: 35761, Start Num: 56

Candidate Starts for Lynnae_45:

(Start: 19 @35336 has 10 MA's), (Start: 22 @35345 has 42 MA's), (Start: 56 @35432 has 17 MA's), (61, 35450), (70, 35477), (71, 35480), (92, 35555), (95, 35567), (138, 35675), (157, 35738),

Gene: MAckerman_43 Start: 34117, Stop: 34446, Start Num: 56

Candidate Starts for MAckerman_43:

(Start: 18 @34009 has 3 MA's), (Start: 22 @34030 has 42 MA's), (Start: 47 @34096 has 3 MA's), (Start: 56 @34117 has 17 MA's), (61, 34135), (73, 34174), (78, 34186), (92, 34243), (119, 34303), (157, 34423),

Gene: MISSy_74 Start: 47301, Stop: 47675, Start Num: 51

Candidate Starts for MISSy_74:

(Start: 51 @47301 has 89 MA's), (Start: 54 @47307 has 44 MA's), (76, 47379), (91, 47439), (143, 47607),

Gene: MISSy_81 Start: 49663, Stop: 50013, Start Num: 48

Candidate Starts for MISSy_81:

(6, 49426), (Start: 48 @49663 has 27 MA's), (Start: 55 @49678 has 110 MA's), (65, 49714), (155, 49993),

Gene: MISSy_69 Start: 45034, Stop: 45447, Start Num: 45

Candidate Starts for MISSy_69:

(10, 44860), (Start: 45 @45034 has 135 MA's), (91, 45175), (103, 45223), (117, 45271), (145, 45364), (165, 45427),

Gene: MPhalcon_69 Start: 45027, Stop: 45440, Start Num: 45

Candidate Starts for MPhalcon_69:

(10, 44853), (Start: 45 @45027 has 135 MA's), (91, 45168), (103, 45216), (117, 45264), (145, 45357), (165, 45420),

Gene: MPhalcon_74 Start: 47294, Stop: 47668, Start Num: 51

Candidate Starts for MPhalcon_74:

(Start: 51 @47294 has 89 MA's), (Start: 54 @47300 has 44 MA's), (76, 47372), (91, 47432), (143, 47600),

Gene: MPhalcon_81 Start: 49671, Stop: 50006, Start Num: 55

Candidate Starts for MPhalcon_81:

(6, 49419), (Start: 48 @49656 has 27 MA's), (Start: 55 @49671 has 110 MA's), (65, 49707), (155, 49986),

Gene: MadamMonkfish_68 Start: 44255, Stop: 44665, Start Num: 45

Candidate Starts for MadamMonkfish_68:

(10, 44081), (Start: 45 @44255 has 135 MA's), (91, 44396), (103, 44444), (117, 44492), (145, 44585), (155, 44627),

Gene: MadamMonkfish_80 Start: 48896, Stop: 49234, Start Num: 55

Candidate Starts for MadamMonkfish_80:

(6, 48644), (Start: 48 @48881 has 27 MA's), (Start: 55 @48896 has 110 MA's), (65, 48932), (155, 49214),

Gene: MadamMonkfish_73 Start: 46525, Stop: 46893, Start Num: 54

Candidate Starts for MadamMonkfish_73:

(Start: 51 @46519 has 89 MA's), (Start: 54 @46525 has 44 MA's), (76, 46597), (91, 46657), (143, 46825),

Gene: Madruga_58 Start: 42688, Stop: 43056, Start Num: 45

Candidate Starts for Madruga_58:

(Start: 45 @42688 has 135 MA's), (92, 42817), (94, 42826), (126, 42922), (134, 42949),

Gene: Manda_74 Start: 48378, Stop: 48755, Start Num: 51

Candidate Starts for Manda_74:

(Start: 51 @48378 has 89 MA's), (Start: 54 @48384 has 44 MA's), (76, 48456), (91, 48516), (143, 48687),

Gene: Manda_68 Start: 45536, Stop: 45946, Start Num: 45

Candidate Starts for Manda_68:

(Start: 45 @45536 has 135 MA's), (91, 45677), (103, 45725), (117, 45773), (145, 45866), (155, 45908),

Gene: Manda_81 Start: 50758, Stop: 51093, Start Num: 55

Candidate Starts for Manda_81:

(6, 50506), (Start: 48 @50743 has 27 MA's), (Start: 55 @50758 has 110 MA's), (65, 50794), (155, 51073),

Gene: Margaret_67 Start: 43929, Stop: 44381, Start Num: 17

Candidate Starts for Margaret_67:

(Start: 17 @43929 has 4 MA's), (33, 43968), (38, 43980), (Start: 55 @44016 has 110 MA's), (63, 44031), (74, 44073), (81, 44091), (92, 44133), (96, 44148), (98, 44154), (133, 44274), (139, 44298), (146, 44316), (158, 44361),

Gene: Marleymoo_119 Start: 70106, Stop: 70465, Start Num: 46

Candidate Starts for Marleymoo_119:

(31, 70079), (Start: 46 @70106 has 36 MA's), (Start: 51 @70115 has 89 MA's), (92, 70247), (96, 70262),

Gene: Marshmallow_71 Start: 48077, Stop: 48448, Start Num: 54

Candidate Starts for Marshmallow_71:

(Start: 51 @48071 has 89 MA's), (Start: 54 @48077 has 44 MA's), (76, 48149), (91, 48209), (143, 48380),

Gene: Marshmallow_78 Start: 50436, Stop: 50783, Start Num: 48

Candidate Starts for Marshmallow_78:

(6, 50199), (Start: 48 @50436 has 27 MA's), (Start: 55 @50451 has 110 MA's), (65, 50487), (155, 50763),

Gene: Marshmallow_66 Start: 45804, Stop: 46214, Start Num: 45

Candidate Starts for Marshmallow_66:

(Start: 45 @45804 has 135 MA's), (91, 45945), (103, 45993), (117, 46041), (145, 46134), (155, 46176),

Gene: Maxxinista_82 Start: 49547, Stop: 49879, Start Num: 55

Candidate Starts for Maxxinista_82:

(6, 49295), (Start: 48 @49532 has 27 MA's), (Start: 55 @49547 has 110 MA's), (65, 49583), (155, 49859),

Gene: Maxxinista_70 Start: 44906, Stop: 45316, Start Num: 45

Candidate Starts for Maxxinista_70:

(Start: 45 @44906 has 135 MA's), (91, 45047), (103, 45095), (117, 45143), (145, 45236), (155, 45278),

Gene: Maxxinista_75 Start: 47176, Stop: 47544, Start Num: 54

Candidate Starts for Maxxinista_75:

(Start: 51 @47170 has 89 MA's), (Start: 54 @47176 has 44 MA's), (76, 47248), (91, 47308), (143, 47476),

Gene: MiaZeal_133 Start: 70821, Stop: 71174, Start Num: 46

Candidate Starts for MiaZeal_133:

(Start: 46 @70821 has 36 MA's), (Start: 51 @70830 has 89 MA's), (140, 71100), (155, 71151),

Gene: MiaZeal_113 Start: 62505, Stop: 62825, Start Num: 44

Candidate Starts for MiaZeal_113:

(Start: 44 @62505 has 30 MA's), (61, 62544), (92, 62643), (109, 62700), (118, 62736), (128, 62766), (139, 62811),

Gene: Miley16_45 Start: 35347, Stop: 35772, Start Num: 19

Candidate Starts for Miley16_45:

(Start: 19 @35347 has 10 MA's), (Start: 22 @35356 has 42 MA's), (Start: 56 @35443 has 17 MA's), (61, 35461), (70, 35488), (71, 35491), (92, 35566), (95, 35578), (138, 35686), (157, 35749),

Gene: Mindy_79 Start: 48763, Stop: 49095, Start Num: 55

Candidate Starts for Mindy_79:

(6, 48511), (Start: 48 @48748 has 27 MA's), (Start: 55 @48763 has 110 MA's), (65, 48799), (155, 49075),

Gene: Mindy_72 Start: 46383, Stop: 46760, Start Num: 51

Candidate Starts for Mindy_72:

(Start: 51 @46383 has 89 MA's), (Start: 54 @46389 has 44 MA's), (76, 46461), (91, 46521), (143, 46692),

Gene: Mindy_67 Start: 44119, Stop: 44529, Start Num: 45

Candidate Starts for Mindy_67:

(10, 43945), (Start: 45 @44119 has 135 MA's), (80, 44215), (91, 44260), (103, 44308), (117, 44356), (145, 44449), (155, 44491),

Gene: Minerva_133 Start: 72481, Stop: 72840, Start Num: 46

Candidate Starts for Minerva_133:

(31, 72454), (Start: 46 @72481 has 36 MA's), (Start: 51 @72490 has 89 MA's), (92, 72622), (96, 72637), (140, 72766), (143, 72772),

Gene: Minerva_116 Start: 65898, Stop: 66218, Start Num: 44

Candidate Starts for Minerva_116:

(Start: 44 @65898 has 30 MA's), (61, 65937), (109, 66093), (118, 66129), (128, 66159), (139, 66204),

Gene: MiniLon_42 Start: 35458, Stop: 35865, Start Num: 22

Candidate Starts for MiniLon_42:

(Start: 18 @35437 has 3 MA's), (Start: 22 @35458 has 42 MA's), (Start: 56 @35542 has 17 MA's), (61, 35560), (Start: 67 @35578 has 1 MA's), (70, 35587), (110, 35704), (157, 35842),

Gene: MiniMac_42 Start: 35455, Stop: 35862, Start Num: 22

Candidate Starts for MiniMac_42:

(Start: 18 @35434 has 3 MA's), (Start: 22 @35455 has 42 MA's), (Start: 56 @35539 has 17 MA's), (61, 35557), (Start: 67 @35575 has 1 MA's), (70, 35584), (110, 35701), (157, 35839),

Gene: Miniwave_63 Start: 44572, Stop: 44982, Start Num: 45

Candidate Starts for Miniwave_63:

(Start: 45 @44572 has 135 MA's), (91, 44713), (103, 44761), (117, 44809), (145, 44902), (155, 44944),

Gene: Miniwave_68 Start: 46836, Stop: 47213, Start Num: 51

Candidate Starts for Miniwave_68:

(Start: 51 @46836 has 89 MA's), (Start: 54 @46842 has 44 MA's), (76, 46914), (91, 46974), (143, 47145),

Gene: Miniwave_75 Start: 49216, Stop: 49551, Start Num: 55

Candidate Starts for Miniwave_75:

(6, 48964), (Start: 48 @49201 has 27 MA's), (Start: 55 @49216 has 110 MA's), (65, 49252), (111, 49393), (125, 49432), (136, 49468), (137, 49471), (145, 49489), (155, 49531),

Gene: Misfit_81 Start: 50690, Stop: 51025, Start Num: 55

Candidate Starts for Misfit_81:

(6, 50438), (Start: 48 @50675 has 27 MA's), (Start: 55 @50690 has 110 MA's), (65, 50726), (155, 51005),

Gene: Misfit_69 Start: 46046, Stop: 46459, Start Num: 45

Candidate Starts for Misfit_69:

(10, 45872), (Start: 45 @46046 has 135 MA's), (91, 46187), (103, 46235), (117, 46283), (145, 46376), (165, 46439),

Gene: Misfit_74 Start: 48313, Stop: 48687, Start Num: 51

Candidate Starts for Misfit_74:

(Start: 51 @48313 has 89 MA's), (Start: 54 @48319 has 44 MA's), (76, 48391), (91, 48451), (143, 48619),

Gene: MkaliMitinis3_45 Start: 35358, Stop: 35774, Start Num: 22

Candidate Starts for MkaliMitinis3_45:

(Start: 19 @35349 has 10 MA's), (Start: 22 @35358 has 42 MA's), (Start: 56 @35445 has 17 MA's), (61, 35463), (70, 35490), (71, 35493), (92, 35568), (95, 35580), (138, 35688), (157, 35751),

Gene: Moldemort_76 Start: 47395, Stop: 47772, Start Num: 51

Candidate Starts for Moldemort_76:

(Start: 51 @47395 has 89 MA's), (Start: 54 @47401 has 44 MA's), (76, 47473), (91, 47533), (143, 47704),

Gene: Moldemort_71 Start: 45128, Stop: 45538, Start Num: 45

Candidate Starts for Moldemort_71:

(10, 44954), (Start: 45 @45128 has 135 MA's), (80, 45224), (91, 45269), (103, 45317), (117, 45365), (145, 45458), (155, 45500),

Gene: Moldemort_83 Start: 49775, Stop: 50107, Start Num: 55

Candidate Starts for Moldemort_83:

(6, 49523), (Start: 48 @49760 has 27 MA's), (Start: 55 @49775 has 110 MA's), (65, 49811), (155, 50087),

Gene: MollyToe_63 Start: 43876, Stop: 44289, Start Num: 45

Candidate Starts for MollyToe_63:

(10, 43702), (Start: 45 @43876 has 135 MA's), (91, 44017), (100, 44059), (133, 44167), (145, 44206), (165, 44269),

Gene: MollyToe_68 Start: 46152, Stop: 46514, Start Num: 54

Candidate Starts for MollyToe_68:

(Start: 51 @46146 has 89 MA's), (Start: 54 @46152 has 44 MA's), (76, 46224), (143, 46446),

Gene: MollyToe_75 Start: 48502, Stop: 48852, Start Num: 48

Candidate Starts for MollyToe_75:

(6, 48265), (Start: 48 @48502 has 27 MA's), (Start: 55 @48517 has 110 MA's), (65, 48553), (82, 48607), (125, 48733), (136, 48769), (137, 48772), (145, 48790), (155, 48832),

Gene: Moostard_42 Start: 35732, Stop: 36055, Start Num: 56

Candidate Starts for Moostard_42:

(Start: 18 @35627 has 3 MA's), (Start: 19 @35639 has 10 MA's), (Start: 22 @35648 has 42 MA's), (Start: 56 @35732 has 17 MA's), (61, 35750), (Start: 67 @35768 has 1 MA's), (70, 35777), (110, 35894), (157, 36032),

Gene: Mosby_64 Start: 44329, Stop: 44742, Start Num: 45

Candidate Starts for Mosby_64:

(10, 44155), (Start: 45 @44329 has 135 MA's), (91, 44470), (103, 44518), (117, 44566), (145, 44659), (165, 44722),

Gene: Mosby_69 Start: 46596, Stop: 46970, Start Num: 51

Candidate Starts for Mosby_69:

(Start: 51 @46596 has 89 MA's), (Start: 54 @46602 has 44 MA's), (76, 46674), (91, 46734), (143, 46902),

Gene: Mosby_76 Start: 48973, Stop: 49308, Start Num: 55

Candidate Starts for Mosby_76:

(6, 48721), (Start: 48 @48958 has 27 MA's), (Start: 55 @48973 has 110 MA's), (65, 49009), (155, 49288),

Gene: MsGreen_42 Start: 35625, Stop: 36053, Start Num: 18

Candidate Starts for MsGreen_42:

(Start: 18 @35625 has 3 MA's), (Start: 19 @35637 has 10 MA's), (Start: 22 @35646 has 42 MA's), (Start: 56 @35730 has 17 MA's), (61, 35748), (Start: 67 @35766 has 1 MA's), (70, 35775), (110, 35892), (157, 36030),

Gene: Murica_76 Start: 48251, Stop: 48619, Start Num: 54

Candidate Starts for Murica_76:

(Start: 51 @48245 has 89 MA's), (Start: 54 @48251 has 44 MA's), (76, 48323), (91, 48383), (143, 48551),

Gene: Murica_71 Start: 45981, Stop: 46391, Start Num: 45

Candidate Starts for Murica_71:

(Start: 45 @45981 has 135 MA's), (91, 46122), (103, 46170), (117, 46218), (145, 46311), (155, 46353),

Gene: Murica_83 Start: 50622, Stop: 50954, Start Num: 55
Candidate Starts for Murica_83:
(Start: 48 @50607 has 27 MA's), (Start: 55 @50622 has 110 MA's), (65, 50658), (155, 50934),

Gene: Murphy_68 Start: 45418, Stop: 45828, Start Num: 45
Candidate Starts for Murphy_68:
(Start: 45 @45418 has 135 MA's), (91, 45559), (103, 45607), (117, 45655), (145, 45748), (155, 45790),

Gene: Murphy_80 Start: 50059, Stop: 50391, Start Num: 55
Candidate Starts for Murphy_80:
(6, 49807), (Start: 48 @50044 has 27 MA's), (Start: 55 @50059 has 110 MA's), (65, 50095), (155, 50371),

Gene: Murphy_73 Start: 47688, Stop: 48056, Start Num: 54
Candidate Starts for Murphy_73:
(Start: 51 @47682 has 89 MA's), (Start: 54 @47688 has 44 MA's), (76, 47760), (91, 47820), (143, 47988),

Gene: Myrale_73 Start: 47936, Stop: 48313, Start Num: 51
Candidate Starts for Myrale_73:
(Start: 51 @47936 has 89 MA's), (Start: 54 @47942 has 44 MA's), (76, 48014), (91, 48074), (143, 48245),

Gene: Myrale_80 Start: 50316, Stop: 50651, Start Num: 55
Candidate Starts for Myrale_80:
(6, 50064), (Start: 48 @50301 has 27 MA's), (Start: 55 @50316 has 110 MA's), (65, 50352), (111, 50493), (125, 50532), (136, 50568), (137, 50571), (145, 50589), (155, 50631),

Gene: Myrale_68 Start: 45669, Stop: 46079, Start Num: 45
Candidate Starts for Myrale_68:
(Start: 45 @45669 has 135 MA's), (91, 45810), (103, 45858), (117, 45906), (145, 45999), (155, 46041),

Gene: Nala_75 Start: 47812, Stop: 48177, Start Num: 54
Candidate Starts for Nala_75:
(Start: 51 @47806 has 89 MA's), (Start: 54 @47812 has 44 MA's), (76, 47884), (91, 47938), (143, 48109),

Gene: Nala_70 Start: 45539, Stop: 45952, Start Num: 45
Candidate Starts for Nala_70:
(10, 45365), (Start: 45 @45539 has 135 MA's), (91, 45680), (103, 45728), (117, 45776), (145, 45869), (165, 45932),

Gene: Nala_82 Start: 50180, Stop: 50515, Start Num: 55
Candidate Starts for Nala_82:
(1, 49610), (2, 49727), (6, 49928), (Start: 48 @50165 has 27 MA's), (Start: 55 @50180 has 110 MA's), (65, 50216), (155, 50495),

Gene: Nekros_136 Start: 74272, Stop: 74625, Start Num: 46
Candidate Starts for Nekros_136:
(Start: 46 @74272 has 36 MA's), (Start: 51 @74281 has 89 MA's), (140, 74551),

Gene: Nekros_115 Start: 65028, Stop: 65351, Start Num: 44

Candidate Starts for Nekros_115:

(Start: 44 @65028 has 30 MA's), (61, 65067), (84, 65133), (90, 65154), (91, 65157), (96, 65184), (139, 65337),

Gene: NelitzaMV_66 Start: 44618, Stop: 45028, Start Num: 45

Candidate Starts for NelitzaMV_66:

(Start: 45 @44618 has 135 MA's), (91, 44759), (103, 44807), (117, 44855), (145, 44948), (155, 44990),

Gene: NelitzaMV_78 Start: 49247, Stop: 49597, Start Num: 48

Candidate Starts for NelitzaMV_78:

(6, 49010), (Start: 48 @49247 has 27 MA's), (Start: 55 @49262 has 110 MA's), (65, 49298), (155, 49577),

Gene: NelitzaMV_71 Start: 46888, Stop: 47259, Start Num: 54

Candidate Starts for NelitzaMV_71:

(Start: 51 @46882 has 89 MA's), (Start: 54 @46888 has 44 MA's), (76, 46960), (91, 47020), (143, 47191),

Gene: Netyap_45 Start: 35356, Stop: 35772, Start Num: 22

Candidate Starts for Netyap_45:

(Start: 19 @35347 has 10 MA's), (Start: 22 @35356 has 42 MA's), (Start: 56 @35443 has 17 MA's), (61, 35461), (70, 35488), (71, 35491), (92, 35566), (95, 35578), (138, 35686), (157, 35749),

Gene: Neville_54 Start: 37372, Stop: 37770, Start Num: 29

Candidate Starts for Neville_54:

(Start: 29 @37372 has 3 MA's), (42, 37402), (59, 37438), (60, 37441), (63, 37447), (69, 37471), (94, 37558), (105, 37579), (114, 37603), (136, 37678), (147, 37702), (163, 37756), (167, 37762),

Gene: Neville_46 Start: 34837, Stop: 35271, Start Num: 32

Candidate Starts for Neville_46:

(Start: 32 @34837 has 3 MA's), (37, 34849), (Start: 47 @34867 has 3 MA's), (59, 34900), (82, 34981), (97, 35050), (135, 35149), (141, 35167), (148, 35182), (150, 35191), (154, 35206),

Gene: Nibley_106 Start: 61896, Stop: 62219, Start Num: 44

Candidate Starts for Nibley_106:

(Start: 44 @61896 has 30 MA's), (61, 61935), (84, 62001), (90, 62022), (91, 62025), (96, 62052), (139, 62205),

Gene: Nibley_130 Start: 70806, Stop: 71159, Start Num: 46

Candidate Starts for Nibley_130:

(Start: 46 @70806 has 36 MA's), (Start: 51 @70815 has 89 MA's), (92, 70941), (140, 71085),

Gene: NiceHouse_171 Start: 97963, Stop: 98331, Start Num: 56

Candidate Starts for NiceHouse_171:

(28, 97906), (Start: 56 @97963 has 17 MA's), (96, 98119), (151, 98266), (155, 98290),

Gene: NiceHouse_173 Start: 98723, Stop: 99082, Start Num: 50

Candidate Starts for NiceHouse_173:

(27, 98672), (Start: 50 @98723 has 1 MA's), (61, 98753), (92, 98870), (108, 98912), (157, 99053),

Gene: NiceHouse_172 Start: 98331, Stop: 98723, Start Num: 34

Candidate Starts for NiceHouse_172:

(Start: 34 @98331 has 1 MA's), (Start: 55 @98373 has 110 MA's), (Start: 56 @98376 has 17 MA's), (77, 98448),

Gene: Nicholas_42 Start: 35730, Stop: 36053, Start Num: 56

Candidate Starts for Nicholas_42:

(Start: 18 @35625 has 3 MA's), (Start: 19 @35637 has 10 MA's), (Start: 22 @35646 has 42 MA's), (Start: 56 @35730 has 17 MA's), (61, 35748), (Start: 67 @35766 has 1 MA's), (70, 35775), (110, 35892), (157, 36030),

Gene: Nicholasp3_45 Start: 35348, Stop: 35773, Start Num: 19

Candidate Starts for Nicholasp3_45:

(Start: 19 @35348 has 10 MA's), (Start: 22 @35357 has 42 MA's), (Start: 56 @35444 has 17 MA's), (61, 35462), (70, 35489), (71, 35492), (92, 35567), (95, 35579), (138, 35687), (157, 35750),

Gene: NihilNomen_136 Start: 73340, Stop: 73699, Start Num: 46

Candidate Starts for NihilNomen_136:

(31, 73313), (Start: 46 @73340 has 36 MA's), (Start: 51 @73349 has 89 MA's), (92, 73481), (96, 73496),

Gene: NihilNomen_120 Start: 66563, Stop: 66883, Start Num: 44

Candidate Starts for NihilNomen_120:

(Start: 44 @66563 has 30 MA's), (61, 66602), (92, 66701), (109, 66758), (118, 66794), (128, 66824), (139, 66869),

Gene: Nimrod_74 Start: 48509, Stop: 48880, Start Num: 54

Candidate Starts for Nimrod_74:

(Start: 51 @48503 has 89 MA's), (Start: 54 @48509 has 44 MA's), (76, 48581), (91, 48641), (143, 48812),

Gene: Nimrod_69 Start: 46236, Stop: 46649, Start Num: 45

Candidate Starts for Nimrod_69:

(10, 46062), (Start: 45 @46236 has 135 MA's), (91, 46377), (103, 46425), (117, 46473), (145, 46566), (165, 46629),

Gene: Nimrod_81 Start: 50883, Stop: 51218, Start Num: 55

Candidate Starts for Nimrod_81:

(1, 50313), (2, 50430), (6, 50631), (Start: 48 @50868 has 27 MA's), (Start: 55 @50883 has 110 MA's), (65, 50919), (155, 51198),

Gene: NoSleep_74 Start: 47140, Stop: 47514, Start Num: 51

Candidate Starts for NoSleep_74:

(Start: 51 @47140 has 89 MA's), (Start: 54 @47146 has 44 MA's), (76, 47218), (91, 47278), (143, 47446),

Gene: NoSleep_69 Start: 44876, Stop: 45286, Start Num: 45

Candidate Starts for NoSleep_69:

(Start: 45 @44876 has 135 MA's), (91, 45017), (103, 45065), (117, 45113), (145, 45206), (155, 45248),

Gene: NoSleep_81 Start: 49517, Stop: 49852, Start Num: 55

Candidate Starts for NoSleep_81:

(6, 49265), (Start: 48 @49502 has 27 MA's), (Start: 55 @49517 has 110 MA's), (65, 49553), (155, 49832),

Gene: NonchalantPear_80 Start: 49370, Stop: 49708, Start Num: 55
Candidate Starts for NonchalantPear_80:
(6, 49118), (Start: 48 @49355 has 27 MA's), (Start: 55 @49370 has 110 MA's), (65, 49406), (155, 49688),

Gene: NonchalantPear_68 Start: 44726, Stop: 45136, Start Num: 45
Candidate Starts for NonchalantPear_68:
(10, 44552), (Start: 45 @44726 has 135 MA's), (91, 44867), (103, 44915), (117, 44963), (145, 45056), (155, 45098),

Gene: NonchalantPear_73 Start: 46996, Stop: 47367, Start Num: 54
Candidate Starts for NonchalantPear_73:
(Start: 51 @46990 has 89 MA's), (Start: 54 @46996 has 44 MA's), (76, 47068), (91, 47128), (143, 47299),

Gene: Odette_138 Start: 74911, Stop: 75270, Start Num: 46
Candidate Starts for Odette_138:
(31, 74884), (Start: 46 @74911 has 36 MA's), (Start: 51 @74920 has 89 MA's), (92, 75052), (96, 75067), (140, 75196), (143, 75202),

Gene: Odette_120 Start: 66457, Stop: 66777, Start Num: 44
Candidate Starts for Odette_120:
(Start: 44 @66457 has 30 MA's), (61, 66496), (92, 66595), (109, 66652), (118, 66688), (128, 66718), (139, 66763),

Gene: OhShagHennessy_42 Start: 33983, Stop: 34399, Start Num: 22
Candidate Starts for OhShagHennessy_42:
(Start: 18 @33962 has 3 MA's), (Start: 22 @33983 has 42 MA's), (Start: 47 @34049 has 3 MA's), (Start: 56 @34070 has 17 MA's), (61, 34088), (73, 34127), (78, 34139), (92, 34196), (119, 34256), (157, 34376),

Gene: Omega_143 Start: 74487, Stop: 74840, Start Num: 46
Candidate Starts for Omega_143:
(Start: 46 @74487 has 36 MA's), (Start: 51 @74496 has 89 MA's),

Gene: Omega_124 Start: 66872, Stop: 67195, Start Num: 44
Candidate Starts for Omega_124:
(Start: 44 @66872 has 30 MA's), (61, 66911), (84, 66977), (90, 66998), (91, 67001), (96, 67028), (139, 67181),

Gene: OneUp_106 Start: 66594, Stop: 66947, Start Num: 56
Candidate Starts for OneUp_106:
(Start: 56 @66594 has 17 MA's), (76, 66660), (104, 66759), (112, 66783), (169, 66942),

Gene: OrionPax_67 Start: 44624, Stop: 45034, Start Num: 45
Candidate Starts for OrionPax_67:
(Start: 45 @44624 has 135 MA's), (91, 44765), (103, 44813), (117, 44861), (145, 44954), (155, 44996),

Gene: OrionPax_72 Start: 46894, Stop: 47265, Start Num: 54
Candidate Starts for OrionPax_72:
(Start: 51 @46888 has 89 MA's), (Start: 54 @46894 has 44 MA's), (76, 46966), (91, 47026), (120, 47125), (143, 47197),

Gene: OrionPax_79 Start: 49268, Stop: 49603, Start Num: 55

Candidate Starts for OrionPax_79:

(6, 49016), (Start: 48 @49253 has 27 MA's), (Start: 55 @49268 has 110 MA's), (65, 49304), (155, 49583),

Gene: OverPar_46 Start: 35475, Stop: 35804, Start Num: 56

Candidate Starts for OverPar_46:

(Start: 19 @35379 has 10 MA's), (Start: 22 @35388 has 42 MA's), (Start: 56 @35475 has 17 MA's), (61, 35493), (70, 35520), (71, 35523), (92, 35598), (95, 35610), (138, 35718), (157, 35781),

Gene: PYPDinur_41 Start: 34231, Stop: 34560, Start Num: 56

Candidate Starts for PYPDinur_41:

(Start: 18 @34126 has 3 MA's), (Start: 19 @34138 has 10 MA's), (Start: 20 @34141 has 5 MA's), (Start: 56 @34231 has 17 MA's), (61, 34249), (70, 34276), (71, 34279), (92, 34354), (95, 34366), (138, 34474), (157, 34537), (164, 34552),

Gene: PaddyBaddy_73 Start: 46900, Stop: 47268, Start Num: 54

Candidate Starts for PaddyBaddy_73:

(Start: 51 @46894 has 89 MA's), (Start: 54 @46900 has 44 MA's), (76, 46972), (91, 47032), (143, 47200),

Gene: PaddyBaddy_68 Start: 44630, Stop: 45040, Start Num: 45

Candidate Starts for PaddyBaddy_68:

(Start: 45 @44630 has 135 MA's), (91, 44771), (103, 44819), (117, 44867), (145, 44960), (155, 45002),

Gene: PaddyBaddy_80 Start: 49271, Stop: 49603, Start Num: 55

Candidate Starts for PaddyBaddy_80:

(6, 49019), (Start: 48 @49256 has 27 MA's), (Start: 55 @49271 has 110 MA's), (65, 49307), (155, 49583),

Gene: Palpatine_82 Start: 50649, Stop: 50981, Start Num: 55

Candidate Starts for Palpatine_82:

(6, 50397), (Start: 48 @50634 has 27 MA's), (Start: 55 @50649 has 110 MA's), (65, 50685), (155, 50961),

Gene: Palpatine_75 Start: 48272, Stop: 48646, Start Num: 51

Candidate Starts for Palpatine_75:

(Start: 51 @48272 has 89 MA's), (Start: 54 @48278 has 44 MA's), (76, 48350), (91, 48410), (143, 48578),

Gene: Palpatine_70 Start: 46008, Stop: 46418, Start Num: 45

Candidate Starts for Palpatine_70:

(Start: 45 @46008 has 135 MA's), (91, 46149), (103, 46197), (117, 46245), (145, 46338), (155, 46380),

Gene: Paperbeatsrock_67 Start: 45250, Stop: 45660, Start Num: 45

Candidate Starts for Paperbeatsrock_67:

(Start: 45 @45250 has 135 MA's), (91, 45391), (103, 45439), (117, 45487), (145, 45580), (155, 45622),

Gene: Paperbeatsrock_72 Start: 47514, Stop: 47891, Start Num: 51

Candidate Starts for Paperbeatsrock_72:

(Start: 51 @47514 has 89 MA's), (Start: 54 @47520 has 44 MA's), (76, 47592), (91, 47652), (143, 47823),

Gene: Paperbeatsrock_79 Start: 49894, Stop: 50229, Start Num: 55

Candidate Starts for Paperbeatsrock_79:

(6, 49642), (Start: 48 @49879 has 27 MA's), (Start: 55 @49894 has 110 MA's), (65, 49930), (111, 50071), (125, 50110), (136, 50146), (137, 50149), (145, 50167), (155, 50209),

Gene: Pat3_78 Start: 48426, Stop: 48761, Start Num: 55

Candidate Starts for Pat3_78:

(6, 48174), (Start: 48 @48411 has 27 MA's), (Start: 55 @48426 has 110 MA's), (65, 48462), (82, 48516), (125, 48642), (136, 48678), (137, 48681), (145, 48699), (155, 48741),

Gene: Pat3_71 Start: 46046, Stop: 46423, Start Num: 51

Candidate Starts for Pat3_71:

(Start: 51 @46046 has 89 MA's), (Start: 54 @46052 has 44 MA's), (76, 46124), (91, 46184), (120, 46283), (143, 46355),

Gene: Pat3_66 Start: 43773, Stop: 44186, Start Num: 45

Candidate Starts for Pat3_66:

(10, 43599), (Start: 45 @43773 has 135 MA's), (91, 43914), (100, 43956), (133, 44064), (145, 44103), (162, 44160),

Gene: Patience_60 Start: 43583, Stop: 43951, Start Num: 45

Candidate Starts for Patience_60:

(Start: 45 @43583 has 135 MA's), (Start: 56 @43604 has 17 MA's), (92, 43712), (94, 43721), (126, 43817), (134, 43844), (152, 43901),

Gene: Peregrin_20 Start: 5906, Stop: 5532, Start Num: 48

Candidate Starts for Peregrin_20:

(Start: 48 @5906 has 27 MA's), (91, 5762), (93, 5747), (163, 5555), (165, 5552),

Gene: Peregrin_226 Start: 113095, Stop: 113481, Start Num: 41

Candidate Starts for Peregrin_226:

(Start: 41 @113095 has 5 MA's), (73, 113182), (88, 113239), (89, 113245), (140, 113392), (159, 113452), (164, 113461),

Gene: Peregrin_24 Start: 6762, Stop: 6388, Start Num: 43

Candidate Starts for Peregrin_24:

(Start: 43 @6762 has 3 MA's), (64, 6708), (86, 6633), (92, 6597), (93, 6594), (121, 6534),

Gene: Peregrin_19 Start: 5539, Stop: 5195, Start Num: 48

Candidate Starts for Peregrin_19:

(Start: 48 @5539 has 27 MA's), (135, 5299),

Gene: Petra64142_84 Start: 51113, Stop: 51448, Start Num: 55

Candidate Starts for Petra64142_84:

(6, 50861), (Start: 48 @51098 has 27 MA's), (Start: 55 @51113 has 110 MA's), (65, 51149), (155, 51428),

Gene: Petra64142_72 Start: 46472, Stop: 46885, Start Num: 45

Candidate Starts for Petra64142_72:

(10, 46298), (Start: 45 @46472 has 135 MA's), (91, 46613), (100, 46655), (133, 46763), (145, 46802), (165, 46865),

Gene: Petra64142_77 Start: 48748, Stop: 49110, Start Num: 54

Candidate Starts for Petra64142_77:

(Start: 51 @48742 has 89 MA's), (Start: 54 @48748 has 44 MA's), (76, 48820), (143, 49042),

Gene: Phaja_71 Start: 47340, Stop: 47717, Start Num: 51

Candidate Starts for Phaja_71:

(Start: 51 @47340 has 89 MA's), (Start: 54 @47346 has 44 MA's), (76, 47418), (91, 47478), (143, 47649),

Gene: Phaja_78 Start: 49720, Stop: 50055, Start Num: 55

Candidate Starts for Phaja_78:

(6, 49468), (Start: 48 @49705 has 27 MA's), (Start: 55 @49720 has 110 MA's), (65, 49756), (111, 49897), (125, 49936), (136, 49972), (137, 49975), (145, 49993), (155, 50035),

Gene: Phaja_66 Start: 45076, Stop: 45486, Start Num: 45

Candidate Starts for Phaja_66:

(Start: 45 @45076 has 135 MA's), (91, 45217), (103, 45265), (117, 45313), (145, 45406), (155, 45448),

Gene: Pharsalus_65 Start: 45050, Stop: 45460, Start Num: 45

Candidate Starts for Pharsalus_65:

(Start: 45 @45050 has 135 MA's), (91, 45191), (103, 45239), (117, 45287), (145, 45380), (155, 45422),

Gene: Pharsalus_70 Start: 47314, Stop: 47691, Start Num: 51

Candidate Starts for Pharsalus_70:

(Start: 51 @47314 has 89 MA's), (Start: 54 @47320 has 44 MA's), (76, 47392), (91, 47452), (143, 47623),

Gene: Pharsalus_77 Start: 49694, Stop: 50029, Start Num: 55

Candidate Starts for Pharsalus_77:

(6, 49442), (Start: 48 @49679 has 27 MA's), (Start: 55 @49694 has 110 MA's), (65, 49730), (111, 49871), (125, 49910), (136, 49946), (137, 49949), (145, 49967), (155, 50009),

Gene: PhatBacter_72 Start: 46025, Stop: 46435, Start Num: 45

Candidate Starts for PhatBacter_72:

(Start: 45 @46025 has 135 MA's), (91, 46166), (103, 46214), (117, 46262), (145, 46355), (155, 46397),

Gene: PhatBacter_77 Start: 48289, Stop: 48663, Start Num: 51

Candidate Starts for PhatBacter_77:

(Start: 51 @48289 has 89 MA's), (Start: 54 @48295 has 44 MA's), (76, 48367), (91, 48427), (143, 48595),

Gene: PhatBacter_84 Start: 50666, Stop: 51001, Start Num: 55

Candidate Starts for PhatBacter_84:

(1, 50096), (2, 50213), (6, 50414), (Start: 48 @50651 has 27 MA's), (Start: 55 @50666 has 110 MA's), (65, 50702), (155, 50981),

Gene: Phaux_70 Start: 46020, Stop: 46430, Start Num: 45

Candidate Starts for Phaux_70:

(Start: 45 @46020 has 135 MA's), (91, 46161), (103, 46209), (117, 46257), (145, 46350), (155, 46392),

Gene: Phaux_75 Start: 48284, Stop: 48658, Start Num: 51

Candidate Starts for Phaux_75:

(Start: 51 @48284 has 89 MA's), (Start: 54 @48290 has 44 MA's), (76, 48362), (91, 48422), (143, 48590),

Gene: Phaux_82 Start: 50661, Stop: 50996, Start Num: 55

Candidate Starts for Phaux_82:

(6, 50409), (Start: 48 @50646 has 27 MA's), (Start: 55 @50661 has 110 MA's), (65, 50697), (82, 50751), (125, 50877), (136, 50913), (137, 50916), (145, 50934), (155, 50976),

Gene: Phoebus_119 Start: 68421, Stop: 68741, Start Num: 44

Candidate Starts for Phoebus_119:

(Start: 44 @68421 has 30 MA's), (61, 68460), (92, 68559), (109, 68616), (118, 68652), (128, 68682), (139, 68727),

Gene: Phoebus_135 Start: 75234, Stop: 75593, Start Num: 46

Candidate Starts for Phoebus_135:

(31, 75207), (Start: 46 @75234 has 36 MA's), (Start: 51 @75243 has 89 MA's), (92, 75375), (96, 75390), (140, 75519), (143, 75525),

Gene: Phrux_70 Start: 46880, Stop: 47254, Start Num: 51

Candidate Starts for Phrux_70:

(Start: 51 @46880 has 89 MA's), (Start: 54 @46886 has 44 MA's), (76, 46958), (91, 47018), (143, 47186),

Gene: Phrux_77 Start: 49257, Stop: 49589, Start Num: 55

Candidate Starts for Phrux_77:

(6, 49005), (Start: 48 @49242 has 27 MA's), (Start: 55 @49257 has 110 MA's), (65, 49293), (155, 49569),

Gene: Phrux_65 Start: 44616, Stop: 45026, Start Num: 45

Candidate Starts for Phrux_65:

(Start: 45 @44616 has 135 MA's), (91, 44757), (103, 44805), (117, 44853), (145, 44946), (155, 44988),

Gene: Policronamos_71 Start: 46020, Stop: 46430, Start Num: 45

Candidate Starts for Policronamos_71:

(Start: 45 @46020 has 135 MA's), (91, 46161), (103, 46209), (117, 46257), (145, 46350), (155, 46392),

Gene: Policronamos_76 Start: 48284, Stop: 48658, Start Num: 51

Candidate Starts for Policronamos_76:

(Start: 51 @48284 has 89 MA's), (Start: 54 @48290 has 44 MA's), (76, 48362), (91, 48422), (143, 48590),

Gene: Policronamos_83 Start: 50661, Stop: 50996, Start Num: 55

Candidate Starts for Policronamos_83:

(6, 50409), (Start: 48 @50646 has 27 MA's), (Start: 55 @50661 has 110 MA's), (65, 50697), (82, 50751), (125, 50877), (136, 50913), (137, 50916), (145, 50934), (155, 50976),

Gene: Porcelain_113 Start: 62820, Stop: 63140, Start Num: 44

Candidate Starts for Porcelain_113:

(Start: 44 @62820 has 30 MA's), (61, 62859), (92, 62958), (109, 63015), (118, 63051), (128, 63081), (139, 63126),

Gene: Porcelain_131 Start: 70628, Stop: 70981, Start Num: 46

Candidate Starts for Porcelain_131:

(Start: 46 @70628 has 36 MA's), (Start: 51 @70637 has 89 MA's), (140, 70907), (155, 70958),

Gene: Porky_67 Start: 44446, Stop: 44856, Start Num: 45
Candidate Starts for Porky_67:
(10, 44272), (Start: 45 @44446 has 135 MA's), (91, 44587), (103, 44635), (117, 44683), (145, 44776),
(155, 44818),

Gene: Porky_72 Start: 46716, Stop: 47084, Start Num: 54
Candidate Starts for Porky_72:
(Start: 51 @46710 has 89 MA's), (Start: 54 @46716 has 44 MA's), (76, 46788), (91, 46848), (143,
47016),

Gene: Porky_79 Start: 49072, Stop: 49419, Start Num: 48
Candidate Starts for Porky_79:
(Start: 48 @49072 has 27 MA's), (Start: 55 @49087 has 110 MA's), (65, 49123), (155, 49399),

Gene: Pound_108 Start: 64917, Stop: 65237, Start Num: 44
Candidate Starts for Pound_108:
(Start: 44 @64917 has 30 MA's), (61, 64956), (109, 65112), (118, 65148), (128, 65178), (139, 65223),

Gene: Ptowny_65 Start: 43912, Stop: 44322, Start Num: 45
Candidate Starts for Ptowny_65:
(Start: 45 @43912 has 135 MA's), (91, 44053), (103, 44101), (117, 44149), (145, 44242), (155, 44284),

Gene: Ptowny_77 Start: 48556, Stop: 48891, Start Num: 55
Candidate Starts for Ptowny_77:
(6, 48304), (Start: 48 @48541 has 27 MA's), (Start: 55 @48556 has 110 MA's), (65, 48592), (155,
48871),

Gene: Ptowny_70 Start: 46176, Stop: 46553, Start Num: 51
Candidate Starts for Ptowny_70:
(Start: 51 @46176 has 89 MA's), (Start: 54 @46182 has 44 MA's), (76, 46254), (91, 46314), (143,
46485),

Gene: Pumpkin_83 Start: 50315, Stop: 50647, Start Num: 55
Candidate Starts for Pumpkin_83:
(1, 49745), (2, 49862), (6, 50063), (Start: 48 @50300 has 27 MA's), (Start: 55 @50315 has 110 MA's),
(65, 50351), (155, 50627),

Gene: Pumpkin_76 Start: 47944, Stop: 48312, Start Num: 54
Candidate Starts for Pumpkin_76:
(Start: 51 @47938 has 89 MA's), (Start: 54 @47944 has 44 MA's), (76, 48016), (91, 48076), (143,
48244),

Gene: Pumpkin_71 Start: 45674, Stop: 46084, Start Num: 45
Candidate Starts for Pumpkin_71:
(Start: 45 @45674 has 135 MA's), (91, 45815), (103, 45863), (117, 45911), (145, 46004), (155, 46046),

Gene: Quallification_69 Start: 45658, Stop: 46068, Start Num: 45
Candidate Starts for Quallification_69:
(Start: 45 @45658 has 135 MA's), (91, 45799), (103, 45847), (117, 45895), (145, 45988), (155, 46030),

Gene: Quallification_74 Start: 47922, Stop: 48299, Start Num: 51
Candidate Starts for Quallification_74:

(Start: 51 @47922 has 89 MA's), (Start: 54 @47928 has 44 MA's), (76, 48000), (91, 48060), (143, 48231),

Gene: Quallification_81 Start: 50302, Stop: 50637, Start Num: 55

Candidate Starts for Quallification_81:

(6, 50050), (Start: 48 @50287 has 27 MA's), (Start: 55 @50302 has 110 MA's), (65, 50338), (111, 50479), (125, 50518), (136, 50554), (137, 50557), (145, 50575), (155, 50617),

Gene: Quby_43 Start: 34125, Stop: 34448, Start Num: 56

Candidate Starts for Quby_43:

(Start: 18 @34020 has 3 MA's), (Start: 19 @34032 has 10 MA's), (Start: 20 @34035 has 5 MA's), (25, 34050), (Start: 56 @34125 has 17 MA's), (61, 34143), (70, 34170), (71, 34173), (92, 34251), (123, 34314), (145, 34377), (157, 34425),

Gene: Rabbitrun_55 Start: 37898, Stop: 38293, Start Num: 29

Candidate Starts for Rabbitrun_55:

(13, 37826), (15, 37832), (21, 37865), (26, 37880), (Start: 29 @37898 has 3 MA's), (52, 37943), (57, 37958), (60, 37970), (130, 38183), (140, 38213), (163, 38282),

Gene: Rabbitrun_47 Start: 35261, Stop: 35668, Start Num: 32

Candidate Starts for Rabbitrun_47:

(Start: 32 @35261 has 3 MA's), (37, 35273), (Start: 47 @35291 has 3 MA's), (59, 35324), (83, 35405), (96, 35465), (135, 35570), (144, 35594),

Gene: Rakim_69 Start: 45127, Stop: 45537, Start Num: 45

Candidate Starts for Rakim_69:

(Start: 45 @45127 has 135 MA's), (91, 45268), (103, 45316), (117, 45364), (145, 45457), (155, 45499),

Gene: Rakim_81 Start: 49771, Stop: 50103, Start Num: 55

Candidate Starts for Rakim_81:

(6, 49519), (Start: 48 @49756 has 27 MA's), (Start: 55 @49771 has 110 MA's), (65, 49807), (155, 50083),

Gene: Rakim_74 Start: 47394, Stop: 47768, Start Num: 51

Candidate Starts for Rakim_74:

(Start: 51 @47394 has 89 MA's), (Start: 54 @47400 has 44 MA's), (76, 47472), (91, 47532), (120, 47628), (143, 47700),

Gene: RanchParmCat_67 Start: 44221, Stop: 44673, Start Num: 17

Candidate Starts for RanchParmCat_67:

(5, 44083), (Start: 17 @44221 has 4 MA's), (33, 44260), (38, 44272), (Start: 55 @44308 has 110 MA's), (63, 44323), (74, 44365), (81, 44383), (92, 44425), (96, 44440), (98, 44446), (133, 44566), (139, 44590), (146, 44608), (158, 44653),

Gene: Rearden_132 Start: 71022, Stop: 71375, Start Num: 46

Candidate Starts for Rearden_132:

(Start: 46 @71022 has 36 MA's), (Start: 51 @71031 has 89 MA's), (140, 71301), (155, 71352),

Gene: Rearden_107 Start: 62553, Stop: 62873, Start Num: 44

Candidate Starts for Rearden_107:

(Start: 44 @62553 has 30 MA's), (61, 62592), (92, 62691), (109, 62748), (118, 62784), (128, 62814), (139, 62859),

Gene: Red305_42 Start: 35730, Stop: 36053, Start Num: 56

Candidate Starts for Red305_42:

(Start: 18 @35625 has 3 MA's), (Start: 19 @35637 has 10 MA's), (Start: 22 @35646 has 42 MA's), (Start: 56 @35730 has 17 MA's), (61, 35748), (Start: 67 @35766 has 1 MA's), (70, 35775), (110, 35892), (157, 36030),

Gene: Redno2_126 Start: 70622, Stop: 70981, Start Num: 46

Candidate Starts for Redno2_126:

(31, 70595), (Start: 46 @70622 has 36 MA's), (Start: 51 @70631 has 89 MA's), (92, 70763), (96, 70778), (140, 70907), (143, 70913),

Gene: Redno2_112 Start: 64353, Stop: 64673, Start Num: 44

Candidate Starts for Redno2_112:

(Start: 44 @64353 has 30 MA's), (61, 64392), (92, 64491), (109, 64548), (118, 64584), (128, 64614), (139, 64659),

Gene: Rimmer_69 Start: 45366, Stop: 45779, Start Num: 45

Candidate Starts for Rimmer_69:

(10, 45192), (Start: 45 @45366 has 135 MA's), (91, 45507), (100, 45549), (133, 45657), (145, 45696), (165, 45759),

Gene: Rimmer_81 Start: 50007, Stop: 50342, Start Num: 55

Candidate Starts for Rimmer_81:

(6, 49755), (Start: 48 @49992 has 27 MA's), (Start: 55 @50007 has 110 MA's), (65, 50043), (82, 50097), (125, 50223), (136, 50259), (137, 50262), (145, 50280), (155, 50322),

Gene: Rimmer_74 Start: 47642, Stop: 48004, Start Num: 54

Candidate Starts for Rimmer_74:

(Start: 51 @47636 has 89 MA's), (Start: 54 @47642 has 44 MA's), (76, 47714), (143, 47936),

Gene: RiverMonster_68 Start: 45194, Stop: 45604, Start Num: 45

Candidate Starts for RiverMonster_68:

(Start: 45 @45194 has 135 MA's), (91, 45335), (103, 45383), (117, 45431), (145, 45524), (155, 45566),

Gene: RiverMonster_80 Start: 49835, Stop: 50167, Start Num: 55

Candidate Starts for RiverMonster_80:

(6, 49583), (Start: 48 @49820 has 27 MA's), (Start: 55 @49835 has 110 MA's), (65, 49871), (155, 50147),

Gene: RiverMonster_73 Start: 47458, Stop: 47832, Start Num: 51

Candidate Starts for RiverMonster_73:

(Start: 51 @47458 has 89 MA's), (Start: 54 @47464 has 44 MA's), (76, 47536), (91, 47596), (143, 47764),

Gene: Rose5_42 Start: 34025, Stop: 34441, Start Num: 22

Candidate Starts for Rose5_42:

(Start: 18 @34004 has 3 MA's), (Start: 22 @34025 has 42 MA's), (Start: 47 @34091 has 3 MA's), (Start: 56 @34112 has 17 MA's), (61, 34130), (73, 34169), (78, 34181), (92, 34238), (119, 34298), (157, 34418),

Gene: Rossetti_46 Start: 36009, Stop: 36320, Start Num: 61

Candidate Starts for Rossetti_46:

(Start: 19 @35895 has 10 MA's), (Start: 22 @35904 has 42 MA's), (Start: 56 @35991 has 17 MA's), (61, 36009), (70, 36036), (71, 36039), (92, 36114), (95, 36126), (138, 36234), (157, 36297),

Gene: Rumpelstiltskin_45 Start: 35623, Stop: 36039, Start Num: 22

Candidate Starts for Rumpelstiltskin_45:

(Start: 19 @35614 has 10 MA's), (Start: 22 @35623 has 42 MA's), (Start: 56 @35710 has 17 MA's), (61, 35728), (70, 35755), (71, 35758), (92, 35833), (95, 35845), (138, 35953), (145, 35968), (157, 36016),

Gene: Saints25_72 Start: 46868, Stop: 47242, Start Num: 51

Candidate Starts for Saints25_72:

(Start: 51 @46868 has 89 MA's), (Start: 54 @46874 has 44 MA's), (76, 46946), (91, 47006), (143, 47174),

Gene: Saints25_79 Start: 49245, Stop: 49580, Start Num: 55

Candidate Starts for Saints25_79:

(6, 48993), (Start: 48 @49230 has 27 MA's), (Start: 55 @49245 has 110 MA's), (65, 49281), (155, 49560),

Gene: Saints25_67 Start: 44604, Stop: 45014, Start Num: 45

Candidate Starts for Saints25_67:

(Start: 45 @44604 has 135 MA's), (91, 44745), (103, 44793), (117, 44841), (145, 44934), (155, 44976),

Gene: Samty_42 Start: 35731, Stop: 36054, Start Num: 56

Candidate Starts for Samty_42:

(Start: 18 @35626 has 3 MA's), (Start: 19 @35638 has 10 MA's), (Start: 22 @35647 has 42 MA's), (Start: 56 @35731 has 17 MA's), (61, 35749), (Start: 67 @35767 has 1 MA's), (70, 35776), (110, 35893), (157, 36031),

Gene: Sarshaun_45 Start: 35477, Stop: 35806, Start Num: 56

Candidate Starts for Sarshaun_45:

(Start: 19 @35381 has 10 MA's), (Start: 22 @35390 has 42 MA's), (Start: 56 @35477 has 17 MA's), (61, 35495), (70, 35522), (71, 35525), (92, 35600), (95, 35612), (138, 35720), (157, 35783),

Gene: Sassay_68 Start: 45564, Stop: 45932, Start Num: 54

Candidate Starts for Sassay_68:

(Start: 51 @45558 has 89 MA's), (Start: 54 @45564 has 44 MA's), (76, 45636), (91, 45696), (143, 45864),

Gene: Sassay_63 Start: 43291, Stop: 43704, Start Num: 45

Candidate Starts for Sassay_63:

(10, 43117), (Start: 45 @43291 has 135 MA's), (91, 43432), (100, 43474), (133, 43582), (145, 43621), (165, 43684),

Gene: Sassay_75 Start: 47920, Stop: 48270, Start Num: 48

Candidate Starts for Sassay_75:

(6, 47683), (Start: 48 @47920 has 27 MA's), (Start: 55 @47935 has 110 MA's), (65, 47971), (111, 48112), (125, 48151), (136, 48187), (137, 48190), (145, 48208), (155, 48250),

Gene: Schatzie_113 Start: 65339, Stop: 65659, Start Num: 44

Candidate Starts for Schatzie_113:

(Start: 44 @65339 has 30 MA's), (61, 65378), (92, 65477), (109, 65534), (118, 65570), (128, 65600), (139, 65645),

Gene: Schatzie_130 Start: 73330, Stop: 73689, Start Num: 46

Candidate Starts for Schatzie_130:

(31, 73303), (Start: 46 @73330 has 36 MA's), (Start: 51 @73339 has 89 MA's), (92, 73471), (96, 73486), (140, 73615), (143, 73621),

Gene: Shaboozey_134 Start: 71250, Stop: 71603, Start Num: 46

Candidate Starts for Shaboozey_134:

(Start: 46 @71250 has 36 MA's), (Start: 51 @71259 has 89 MA's), (92, 71385), (140, 71529),

Gene: Shaboozey_111 Start: 62340, Stop: 62663, Start Num: 44

Candidate Starts for Shaboozey_111:

(Start: 44 @62340 has 30 MA's), (61, 62379), (84, 62445), (90, 62466), (91, 62469), (96, 62496), (139, 62649),

Gene: ShamWow_68 Start: 45513, Stop: 45923, Start Num: 45

Candidate Starts for ShamWow_68:

(10, 45339), (Start: 45 @45513 has 135 MA's), (80, 45609), (91, 45654), (103, 45702), (117, 45750), (145, 45843), (155, 45885),

Gene: ShamWow_73 Start: 47777, Stop: 48154, Start Num: 51

Candidate Starts for ShamWow_73:

(Start: 51 @47777 has 89 MA's), (Start: 54 @47783 has 44 MA's), (76, 47855), (91, 47915), (143, 48086),

Gene: ShamWow_80 Start: 50157, Stop: 50489, Start Num: 55

Candidate Starts for ShamWow_80:

(6, 49905), (Start: 48 @50142 has 27 MA's), (Start: 55 @50157 has 110 MA's), (65, 50193), (155, 50469),

Gene: Sheng711_43 Start: 34231, Stop: 34560, Start Num: 56

Candidate Starts for Sheng711_43:

(Start: 18 @34126 has 3 MA's), (Start: 19 @34138 has 10 MA's), (Start: 20 @34141 has 5 MA's), (Start: 56 @34231 has 17 MA's), (61, 34249), (70, 34276), (71, 34279), (92, 34354), (95, 34366), (138, 34474), (157, 34537), (164, 34552),

Gene: ShereKhan_72 Start: 47846, Stop: 48223, Start Num: 51

Candidate Starts for ShereKhan_72:

(Start: 51 @47846 has 89 MA's), (Start: 54 @47852 has 44 MA's), (76, 47924), (91, 47984), (143, 48155),

Gene: ShereKhan_78 Start: 50227, Stop: 50562, Start Num: 55

Candidate Starts for ShereKhan_78:

(6, 49975), (Start: 48 @50212 has 27 MA's), (Start: 55 @50227 has 110 MA's), (65, 50263), (111, 50404), (125, 50443), (136, 50479), (137, 50482), (145, 50500), (155, 50542),

Gene: ShereKhan_67 Start: 45582, Stop: 45992, Start Num: 45

Candidate Starts for ShereKhan_67:

(Start: 45 @45582 has 135 MA's), (91, 45723), (103, 45771), (117, 45819), (145, 45912), (155, 45954),

Gene: Silverleaf_42 Start: 34025, Stop: 34441, Start Num: 22

Candidate Starts for Silverleaf_42:

(Start: 18 @34004 has 3 MA's), (Start: 22 @34025 has 42 MA's), (Start: 47 @34091 has 3 MA's), (Start: 56 @34112 has 17 MA's), (61, 34130), (73, 34169), (78, 34181), (92, 34238), (119, 34298), (157, 34418),

Gene: Simpliphy_72 Start: 46864, Stop: 47232, Start Num: 54

Candidate Starts for Simpliphy_72:

(Start: 51 @46858 has 89 MA's), (Start: 54 @46864 has 44 MA's), (76, 46936), (91, 46996), (143, 47164),

Gene: Simpliphy_79 Start: 49235, Stop: 49570, Start Num: 55

Candidate Starts for Simpliphy_79:

(6, 48983), (Start: 48 @49220 has 27 MA's), (Start: 55 @49235 has 110 MA's), (65, 49271), (155, 49550),

Gene: Simpliphy_67 Start: 44594, Stop: 45004, Start Num: 45

Candidate Starts for Simpliphy_67:

(Start: 45 @44594 has 135 MA's), (91, 44735), (103, 44783), (117, 44831), (145, 44924), (155, 44966),

Gene: SirDuracell_67 Start: 43865, Stop: 44278, Start Num: 45

Candidate Starts for SirDuracell_67:

(10, 43691), (Start: 45 @43865 has 135 MA's), (91, 44006), (100, 44048), (133, 44156), (145, 44195), (165, 44258),

Gene: SirDuracell_79 Start: 48521, Stop: 48856, Start Num: 55

Candidate Starts for SirDuracell_79:

(6, 48269), (Start: 48 @48506 has 27 MA's), (Start: 55 @48521 has 110 MA's), (65, 48557), (82, 48611), (125, 48737), (136, 48773), (137, 48776), (145, 48794), (155, 48836),

Gene: SirDuracell_72 Start: 46147, Stop: 46518, Start Num: 54

Candidate Starts for SirDuracell_72:

(Start: 51 @46141 has 89 MA's), (Start: 54 @46147 has 44 MA's), (76, 46219), (91, 46279), (120, 46378), (143, 46450),

Gene: Snenia_42 Start: 35731, Stop: 36054, Start Num: 56

Candidate Starts for Snenia_42:

(Start: 18 @35626 has 3 MA's), (Start: 19 @35638 has 10 MA's), (Start: 22 @35647 has 42 MA's), (Start: 56 @35731 has 17 MA's), (61, 35749), (Start: 67 @35767 has 1 MA's), (70, 35776), (110, 35893), (157, 36031),

Gene: SoJulia_46 Start: 35703, Stop: 36032, Start Num: 56

Candidate Starts for SoJulia_46:

(Start: 19 @35607 has 10 MA's), (Start: 22 @35616 has 42 MA's), (Start: 56 @35703 has 17 MA's), (61, 35721), (70, 35748), (71, 35751), (92, 35826), (95, 35838), (138, 35946), (157, 36009),

Gene: Soap141_45 Start: 35477, Stop: 35806, Start Num: 56

Candidate Starts for Soap141_45:

(Start: 19 @35381 has 10 MA's), (Start: 22 @35390 has 42 MA's), (Start: 56 @35477 has 17 MA's), (61, 35495), (70, 35522), (71, 35525), (92, 35600), (95, 35612), (138, 35720), (157, 35783),

Gene: SophKB_70 Start: 46533, Stop: 46910, Start Num: 51

Candidate Starts for SophKB_70:

(Start: 51 @46533 has 89 MA's), (Start: 54 @46539 has 44 MA's), (76, 46611), (91, 46671), (143, 46842),

Gene: SophKB_77 Start: 48913, Stop: 49248, Start Num: 55

Candidate Starts for SophKB_77:

(6, 48661), (Start: 48 @48898 has 27 MA's), (Start: 55 @48913 has 110 MA's), (65, 48949), (111, 49090), (125, 49129), (136, 49165), (137, 49168), (145, 49186), (155, 49228),

Gene: SophKB_65 Start: 44269, Stop: 44679, Start Num: 45

Candidate Starts for SophKB_65:

(Start: 45 @44269 has 135 MA's), (91, 44410), (103, 44458), (117, 44506), (145, 44599), (155, 44641),

Gene: Sotrice96_69 Start: 45272, Stop: 45682, Start Num: 45

Candidate Starts for Sotrice96_69:

(Start: 45 @45272 has 135 MA's), (91, 45413), (103, 45461), (117, 45509), (145, 45602), (155, 45644),

Gene: Sotrice96_81 Start: 49916, Stop: 50251, Start Num: 55

Candidate Starts for Sotrice96_81:

(6, 49664), (Start: 48 @49901 has 27 MA's), (Start: 55 @49916 has 110 MA's), (65, 49952), (155, 50231),

Gene: Sotrice96_74 Start: 47536, Stop: 47913, Start Num: 51

Candidate Starts for Sotrice96_74:

(Start: 51 @47536 has 89 MA's), (Start: 54 @47542 has 44 MA's), (76, 47614), (91, 47674), (143, 47845),

Gene: Spooks_26 Start: 18379, Stop: 17993, Start Num: 24

Candidate Starts for Spooks_26:

(14, 18403), (Start: 24 @18379 has 2 MA's), (Start: 45 @18319 has 135 MA's), (Start: 55 @18298 has 110 MA's), (64, 18277), (74, 18241), (100, 18154), (127, 18064), (129, 18058),

Gene: Squint_111 Start: 62624, Stop: 62944, Start Num: 44

Candidate Starts for Squint_111:

(Start: 44 @62624 has 30 MA's), (61, 62663), (92, 62762), (109, 62819), (118, 62855), (128, 62885), (139, 62930),

Gene: Squint_131 Start: 70888, Stop: 71241, Start Num: 46

Candidate Starts for Squint_131:

(Start: 46 @70888 has 36 MA's), (Start: 51 @70897 has 89 MA's), (140, 71167), (155, 71218),

Gene: Stank_83 Start: 50159, Stop: 50509, Start Num: 48

Candidate Starts for Stank_83:

(6, 49922), (Start: 48 @50159 has 27 MA's), (Start: 55 @50174 has 110 MA's), (65, 50210), (155, 50489),

Gene: Stank_76 Start: 47794, Stop: 48171, Start Num: 51

Candidate Starts for Stank_76:

(Start: 51 @47794 has 89 MA's), (Start: 54 @47800 has 44 MA's), (76, 47872), (91, 47932), (143, 48103),

Gene: Stank_71 Start: 45527, Stop: 45937, Start Num: 45

Candidate Starts for Stank_71:

(10, 45353), (Start: 45 @45527 has 135 MA's), (80, 45623), (91, 45668), (103, 45716), (117, 45764), (145, 45857), (155, 45899),

Gene: Stark_69 Start: 45077, Stop: 45487, Start Num: 45
Candidate Starts for Stark_69:
(Start: 45 @45077 has 135 MA's), (91, 45218), (103, 45266), (117, 45314), (145, 45407), (155, 45449),

Gene: Stark_81 Start: 49718, Stop: 50050, Start Num: 55
Candidate Starts for Stark_81:
(6, 49466), (Start: 48 @49703 has 27 MA's), (Start: 55 @49718 has 110 MA's), (65, 49754), (155, 50030),

Gene: Stark_74 Start: 47341, Stop: 47715, Start Num: 51
Candidate Starts for Stark_74:
(Start: 51 @47341 has 89 MA's), (Start: 54 @47347 has 44 MA's), (76, 47419), (91, 47479), (143, 47647),

Gene: StellaBean_71 Start: 47107, Stop: 47478, Start Num: 54
Candidate Starts for StellaBean_71:
(Start: 51 @47101 has 89 MA's), (Start: 54 @47107 has 44 MA's), (76, 47179), (91, 47239), (143, 47410),

Gene: StellaBean_78 Start: 49481, Stop: 49813, Start Num: 55
Candidate Starts for StellaBean_78:
(6, 49229), (Start: 48 @49466 has 27 MA's), (Start: 55 @49481 has 110 MA's), (65, 49517), (155, 49793),

Gene: StellaBean_66 Start: 44837, Stop: 45247, Start Num: 45
Candidate Starts for StellaBean_66:
(Start: 45 @44837 has 135 MA's), (91, 44978), (103, 45026), (117, 45074), (145, 45167), (155, 45209),

Gene: Stellammi_89 Start: 46045, Stop: 46407, Start Num: 47
Candidate Starts for Stellammi_89:
(11, 45898), (Start: 45 @46042 has 135 MA's), (Start: 47 @46045 has 3 MA's), (82, 46141), (92, 46186), (107, 46225), (119, 46255), (131, 46294),

Gene: StolenFromERC_83 Start: 49956, Stop: 50291, Start Num: 55
Candidate Starts for StolenFromERC_83:
(6, 49704), (Start: 48 @49941 has 27 MA's), (Start: 55 @49956 has 110 MA's), (65, 49992), (155, 50271),

Gene: StolenFromERC_76 Start: 47576, Stop: 47953, Start Num: 51
Candidate Starts for StolenFromERC_76:
(Start: 51 @47576 has 89 MA's), (Start: 54 @47582 has 44 MA's), (76, 47654), (91, 47714), (143, 47885),

Gene: StolenFromERC_71 Start: 45309, Stop: 45719, Start Num: 45
Candidate Starts for StolenFromERC_71:
(10, 45135), (Start: 45 @45309 has 135 MA's), (91, 45450), (103, 45498), (117, 45546), (145, 45639), (155, 45681),

Gene: StormChicken_70 Start: 45973, Stop: 46386, Start Num: 45
Candidate Starts for StormChicken_70:
(10, 45799), (Start: 45 @45973 has 135 MA's), (91, 46114), (100, 46156), (133, 46264), (145, 46303), (165, 46366),

Gene: StormChicken_82 Start: 50599, Stop: 50949, Start Num: 48
Candidate Starts for StormChicken_82:
(6, 50362), (Start: 48 @50599 has 27 MA's), (Start: 55 @50614 has 110 MA's), (65, 50650), (111, 50791), (125, 50830), (136, 50866), (137, 50869), (145, 50887), (155, 50929),

Gene: StormChicken_75 Start: 48243, Stop: 48611, Start Num: 51
Candidate Starts for StormChicken_75:
(Start: 51 @48243 has 89 MA's), (Start: 54 @48249 has 44 MA's), (76, 48321), (143, 48543),

Gene: Success_26 Start: 17594, Stop: 17208, Start Num: 24
Candidate Starts for Success_26:
(9, 17702), (14, 17618), (Start: 24 @17594 has 2 MA's), (Start: 45 @17534 has 135 MA's), (64, 17492), (74, 17456), (101, 17366), (127, 17279), (129, 17273),

Gene: SuperSonics_61 Start: 42729, Stop: 43097, Start Num: 45
Candidate Starts for SuperSonics_61:
(Start: 45 @42729 has 135 MA's), (Start: 56 @42750 has 17 MA's), (92, 42858), (94, 42867), (126, 42963), (134, 42990),

Gene: Superphikiman_131 Start: 70104, Stop: 70457, Start Num: 46
Candidate Starts for Superphikiman_131:
(Start: 46 @70104 has 36 MA's), (Start: 51 @70113 has 89 MA's), (140, 70383),

Gene: Superphikiman_110 Start: 61715, Stop: 62035, Start Num: 44
Candidate Starts for Superphikiman_110:
(Start: 44 @61715 has 30 MA's), (61, 61754), (92, 61853), (109, 61910), (118, 61946), (128, 61976), (139, 62021),

Gene: TBrady12_71 Start: 45011, Stop: 45421, Start Num: 45
Candidate Starts for TBrady12_71:
(10, 44837), (Start: 45 @45011 has 135 MA's), (91, 45152), (103, 45200), (117, 45248), (145, 45341), (155, 45383),

Gene: TBrady12_83 Start: 49655, Stop: 49990, Start Num: 55
Candidate Starts for TBrady12_83:
(6, 49403), (Start: 48 @49640 has 27 MA's), (Start: 55 @49655 has 110 MA's), (65, 49691), (155, 49970),

Gene: TBrady12_76 Start: 47275, Stop: 47652, Start Num: 51
Candidate Starts for TBrady12_76:
(Start: 51 @47275 has 89 MA's), (Start: 54 @47281 has 44 MA's), (76, 47353), (91, 47413), (143, 47584),

Gene: Tarkin_67 Start: 45259, Stop: 45669, Start Num: 45
Candidate Starts for Tarkin_67:
(Start: 45 @45259 has 135 MA's), (91, 45400), (103, 45448), (117, 45496), (145, 45589), (155, 45631),

Gene: Tarkin_79 Start: 49903, Stop: 50238, Start Num: 55
Candidate Starts for Tarkin_79:
(6, 49651), (Start: 48 @49888 has 27 MA's), (Start: 55 @49903 has 110 MA's), (65, 49939), (111, 50080), (125, 50119), (136, 50155), (137, 50158), (145, 50176), (155, 50218),

Gene: Tarkin_72 Start: 47523, Stop: 47900, Start Num: 51

Candidate Starts for Tarkin_72:

(Start: 51 @47523 has 89 MA's), (Start: 54 @47529 has 44 MA's), (76, 47601), (91, 47661), (143, 47832),

Gene: TeamEdward_75 Start: 48249, Stop: 48605, Start Num: 54

Candidate Starts for TeamEdward_75:

(Start: 51 @48243 has 89 MA's), (Start: 54 @48249 has 44 MA's), (91, 48369), (120, 48465),

Gene: TeamEdward_70 Start: 45967, Stop: 46380, Start Num: 45

Candidate Starts for TeamEdward_70:

(10, 45793), (Start: 45 @45967 has 135 MA's), (91, 46108), (100, 46150), (133, 46258), (145, 46297), (165, 46360),

Gene: TeamEdward_82 Start: 50608, Stop: 50943, Start Num: 55

Candidate Starts for TeamEdward_82:

(6, 50356), (Start: 48 @50593 has 27 MA's), (Start: 55 @50608 has 110 MA's), (65, 50644), (82, 50698), (125, 50824), (136, 50860), (137, 50863), (145, 50881), (155, 50923),

Gene: TeardropMSU_76 Start: 48888, Stop: 49238, Start Num: 48

Candidate Starts for TeardropMSU_76:

(6, 48651), (Start: 48 @48888 has 27 MA's), (Start: 55 @48903 has 110 MA's), (65, 48939), (111, 49080), (125, 49119), (136, 49155), (137, 49158), (145, 49176), (155, 49218),

Gene: TeardropMSU_69 Start: 46523, Stop: 46900, Start Num: 51

Candidate Starts for TeardropMSU_69:

(Start: 51 @46523 has 89 MA's), (Start: 54 @46529 has 44 MA's), (76, 46601), (91, 46661), (143, 46832),

Gene: TeardropMSU_64 Start: 44259, Stop: 44669, Start Num: 45

Candidate Starts for TeardropMSU_64:

(Start: 45 @44259 has 135 MA's), (91, 44400), (103, 44448), (117, 44496), (145, 44589), (155, 44631),

Gene: Teaspoon_74 Start: 47423, Stop: 47794, Start Num: 54

Candidate Starts for Teaspoon_74:

(Start: 51 @47417 has 89 MA's), (Start: 54 @47423 has 44 MA's), (76, 47495), (91, 47555), (143, 47726),

Gene: Teaspoon_81 Start: 49797, Stop: 50132, Start Num: 55

Candidate Starts for Teaspoon_81:

(6, 49545), (Start: 48 @49782 has 27 MA's), (Start: 55 @49797 has 110 MA's), (65, 49833), (155, 50112),

Gene: Teaspoon_69 Start: 45153, Stop: 45563, Start Num: 45

Candidate Starts for Teaspoon_69:

(10, 44979), (Start: 45 @45153 has 135 MA's), (91, 45294), (103, 45342), (117, 45390), (145, 45483), (155, 45525),

Gene: Terminus_83 Start: 50690, Stop: 51025, Start Num: 55

Candidate Starts for Terminus_83:

(6, 50438), (Start: 48 @50675 has 27 MA's), (Start: 55 @50690 has 110 MA's), (65, 50726), (155, 51005),

Gene: Terminus_76 Start: 48319, Stop: 48687, Start Num: 54

Candidate Starts for Terminus_76:

(Start: 51 @48313 has 89 MA's), (Start: 54 @48319 has 44 MA's), (76, 48391), (91, 48451), (143, 48619),

Gene: Terminus_71 Start: 46046, Stop: 46459, Start Num: 45

Candidate Starts for Terminus_71:

(10, 45872), (Start: 45 @46046 has 135 MA's), (91, 46187), (103, 46235), (117, 46283), (145, 46376), (165, 46439),

Gene: Thibault_99 Start: 60528, Stop: 60848, Start Num: 44

Candidate Starts for Thibault_99:

(Start: 44 @60528 has 30 MA's), (61, 60567), (109, 60723), (118, 60759), (128, 60789), (139, 60834),

Gene: Thibault_119 Start: 70544, Stop: 70903, Start Num: 46

Candidate Starts for Thibault_119:

(31, 70517), (Start: 46 @70544 has 36 MA's), (Start: 51 @70553 has 89 MA's), (92, 70685), (96, 70700), (143, 70835),

Gene: Thimble_69 Start: 44491, Stop: 44901, Start Num: 45

Candidate Starts for Thimble_69:

(10, 44317), (Start: 45 @44491 has 135 MA's), (91, 44632), (103, 44680), (117, 44728), (145, 44821), (155, 44863),

Gene: Thimble_81 Start: 49138, Stop: 49470, Start Num: 55

Candidate Starts for Thimble_81:

(1, 48568), (2, 48685), (6, 48886), (Start: 48 @49123 has 27 MA's), (Start: 55 @49138 has 110 MA's), (65, 49174), (155, 49450),

Gene: Thimble_74 Start: 46764, Stop: 47135, Start Num: 54

Candidate Starts for Thimble_74:

(Start: 51 @46758 has 89 MA's), (Start: 54 @46764 has 44 MA's), (76, 46836), (91, 46896), (143, 47067),

Gene: ThreeRngTarjay_130 Start: 73825, Stop: 74184, Start Num: 46

Candidate Starts for ThreeRngTarjay_130:

(31, 73798), (Start: 46 @73825 has 36 MA's), (Start: 51 @73834 has 89 MA's), (92, 73966), (96, 73981), (140, 74110), (143, 74116),

Gene: Thresher_75 Start: 48406, Stop: 48774, Start Num: 54

Candidate Starts for Thresher_75:

(Start: 51 @48400 has 89 MA's), (Start: 54 @48406 has 44 MA's), (76, 48478), (91, 48538), (143, 48706),

Gene: Thresher_70 Start: 46136, Stop: 46546, Start Num: 45

Candidate Starts for Thresher_70:

(Start: 45 @46136 has 135 MA's), (91, 46277), (103, 46325), (117, 46373), (145, 46466), (155, 46508),

Gene: Thresher_82 Start: 50777, Stop: 51109, Start Num: 55

Candidate Starts for Thresher_82:

(6, 50525), (Start: 48 @50762 has 27 MA's), (Start: 55 @50777 has 110 MA's), (65, 50813), (155, 51089),

Gene: Tomaszewski_75 Start: 49066, Stop: 49401, Start Num: 55

Candidate Starts for Tomaszewski_75:

(6, 48814), (Start: 48 @49051 has 27 MA's), (Start: 55 @49066 has 110 MA's), (65, 49102), (155, 49381),

Gene: Tomaszewski_68 Start: 46695, Stop: 47063, Start Num: 51

Candidate Starts for Tomaszewski_68:

(Start: 51 @46695 has 89 MA's), (Start: 54 @46701 has 44 MA's), (99, 46857), (137, 46980), (157, 47046),

Gene: Tomaszewski_63 Start: 44425, Stop: 44838, Start Num: 45

Candidate Starts for Tomaszewski_63:

(10, 44251), (Start: 45 @44425 has 135 MA's), (91, 44566), (100, 44608), (133, 44716), (145, 44755), (165, 44818),

Gene: Toto_66 Start: 45513, Stop: 45923, Start Num: 45

Candidate Starts for Toto_66:

(10, 45339), (Start: 45 @45513 has 135 MA's), (80, 45609), (91, 45654), (103, 45702), (117, 45750), (145, 45843), (155, 45885),

Gene: Toto_71 Start: 47777, Stop: 48154, Start Num: 51

Candidate Starts for Toto_71:

(Start: 51 @47777 has 89 MA's), (Start: 54 @47783 has 44 MA's), (76, 47855), (91, 47915), (143, 48086),

Gene: Toto_78 Start: 50157, Stop: 50489, Start Num: 55

Candidate Starts for Toto_78:

(6, 49905), (Start: 48 @50142 has 27 MA's), (Start: 55 @50157 has 110 MA's), (65, 50193), (155, 50469),

Gene: Tourach_44 Start: 35371, Stop: 35784, Start Num: 22

Candidate Starts for Tourach_44:

(Start: 19 @35362 has 10 MA's), (Start: 22 @35371 has 42 MA's), (Start: 56 @35458 has 17 MA's), (61, 35476), (70, 35503), (71, 35506), (92, 35581), (157, 35761),

Gene: Traaww1_64 Start: 44694, Stop: 45104, Start Num: 45

Candidate Starts for Traaww1_64:

(10, 44520), (Start: 45 @44694 has 135 MA's), (80, 44790), (91, 44835), (103, 44883), (117, 44931), (145, 45024), (155, 45066),

Gene: Traaww1_69 Start: 46961, Stop: 47338, Start Num: 51

Candidate Starts for Traaww1_69:

(Start: 51 @46961 has 89 MA's), (Start: 54 @46967 has 44 MA's), (76, 47039), (91, 47099), (143, 47270),

Gene: Traaww1_76 Start: 49341, Stop: 49673, Start Num: 55

Candidate Starts for Traaww1_76:

(6, 49089), (Start: 48 @49326 has 27 MA's), (Start: 55 @49341 has 110 MA's), (65, 49377), (155, 49653),

Gene: Trax_45 Start: 35143, Stop: 35541, Start Num: 32

Candidate Starts for Trax_45:

(Start: 32 @35143 has 3 MA's), (37, 35155), (Start: 47 @35173 has 3 MA's), (59, 35206), (83, 35287), (96, 35347), (117, 35398), (144, 35476), (153, 35503), (157, 35524),

Gene: Trax_53 Start: 37657, Stop: 38055, Start Num: 29

Candidate Starts for Trax_53:

(Start: 29 @37657 has 3 MA's), (42, 37687), (59, 37723), (60, 37726), (63, 37732), (69, 37756), (94, 37843), (105, 37864), (114, 37888), (136, 37963), (147, 37987), (163, 38041), (167, 38047),

Gene: TriFive_42 Start: 35730, Stop: 36053, Start Num: 56

Candidate Starts for TriFive_42:

(Start: 18 @35625 has 3 MA's), (Start: 19 @35637 has 10 MA's), (Start: 22 @35646 has 42 MA's), (Start: 56 @35730 has 17 MA's), (61, 35748), (Start: 67 @35766 has 1 MA's), (70, 35775), (110, 35892), (157, 36030),

Gene: Trina_236 Start: 121948, Stop: 122328, Start Num: 30

Candidate Starts for Trina_236:

(Start: 30 @121948 has 1 MA's), (39, 121969), (49, 121990), (80, 122074), (90, 122116), (92, 122131), (149, 122263), (168, 122323),

Gene: Trina_234 Start: 121206, Stop: 121604, Start Num: 41

Candidate Starts for Trina_234:

(Start: 30 @121179 has 1 MA's), (39, 121200), (Start: 41 @121206 has 5 MA's), (Start: 47 @121215 has 3 MA's), (53, 121227), (61, 121254), (85, 121335), (92, 121374), (122, 121449), (136, 121500), (140, 121509), (149, 121527), (155, 121560), (156, 121563),

Gene: Tuco_69 Start: 46021, Stop: 46431, Start Num: 45

Candidate Starts for Tuco_69:

(Start: 45 @46021 has 135 MA's), (91, 46162), (103, 46210), (117, 46258), (145, 46351), (155, 46393),

Gene: Tuco_74 Start: 48285, Stop: 48662, Start Num: 51

Candidate Starts for Tuco_74:

(Start: 51 @48285 has 89 MA's), (Start: 54 @48291 has 44 MA's), (76, 48363), (91, 48423), (143, 48594),

Gene: Tuco_81 Start: 50665, Stop: 50997, Start Num: 55

Candidate Starts for Tuco_81:

(6, 50413), (Start: 48 @50650 has 27 MA's), (Start: 55 @50665 has 110 MA's), (65, 50701), (155, 50977),

Gene: Tyson_42 Start: 34026, Stop: 34442, Start Num: 22

Candidate Starts for Tyson_42:

(Start: 18 @34005 has 3 MA's), (Start: 22 @34026 has 42 MA's), (Start: 47 @34092 has 3 MA's), (Start: 56 @34113 has 17 MA's), (61, 34131), (73, 34170), (78, 34182), (92, 34239), (119, 34299), (142, 34365), (157, 34419),

Gene: UPIE_43 Start: 34009, Stop: 34425, Start Num: 22

Candidate Starts for UPIE_43:

(Start: 18 @33988 has 3 MA's), (Start: 22 @34009 has 42 MA's), (Start: 47 @34075 has 3 MA's), (Start: 56 @34096 has 17 MA's), (61, 34114), (73, 34153), (78, 34165), (92, 34222), (119, 34282), (157, 34402),

Gene: Ukulele_68 Start: 46671, Stop: 47045, Start Num: 51

Candidate Starts for Ukulele_68:

(Start: 51 @46671 has 89 MA's), (Start: 54 @46677 has 44 MA's), (76, 46749), (91, 46809), (143, 46977),

Gene: Ukulele_63 Start: 44407, Stop: 44817, Start Num: 45
Candidate Starts for Ukulele_63:
(Start: 45 @44407 has 135 MA's), (91, 44548), (103, 44596), (117, 44644), (145, 44737), (155, 44779),

Gene: Ukulele_75 Start: 49048, Stop: 49383, Start Num: 55
Candidate Starts for Ukulele_75:
(6, 48796), (Start: 48 @49033 has 27 MA's), (Start: 55 @49048 has 110 MA's), (65, 49084), (155, 49363),

Gene: Underpass_45 Start: 35357, Stop: 35773, Start Num: 22
Candidate Starts for Underpass_45:
(Start: 19 @35348 has 10 MA's), (Start: 22 @35357 has 42 MA's), (Start: 56 @35444 has 17 MA's), (61, 35462), (70, 35489), (71, 35492), (92, 35567), (95, 35579), (138, 35687), (157, 35750),

Gene: Vetrrix_45 Start: 35363, Stop: 35779, Start Num: 22
Candidate Starts for Vetrrix_45:
(Start: 19 @35354 has 10 MA's), (Start: 22 @35363 has 42 MA's), (Start: 56 @35450 has 17 MA's), (61, 35468), (70, 35495), (71, 35498), (92, 35573), (95, 35585), (138, 35693), (157, 35756),

Gene: Wamburgxpress_43 Start: 34024, Stop: 34440, Start Num: 22
Candidate Starts for Wamburgxpress_43:
(Start: 18 @34003 has 3 MA's), (Start: 22 @34024 has 42 MA's), (Start: 47 @34090 has 3 MA's), (Start: 56 @34111 has 17 MA's), (61, 34129), (73, 34168), (78, 34180), (92, 34237), (119, 34297), (157, 34417),

Gene: Wanda_133 Start: 70960, Stop: 71319, Start Num: 46
Candidate Starts for Wanda_133:
(31, 70933), (Start: 46 @70960 has 36 MA's), (Start: 51 @70969 has 89 MA's), (92, 71101), (96, 71116), (140, 71245), (143, 71251),

Gene: Weasels2_208 Start: 107565, Stop: 107978, Start Num: 41
Candidate Starts for Weasels2_208:
(Start: 41 @107565 has 5 MA's), (76, 107664), (91, 107721), (106, 107766), (120, 107805), (140, 107880),

Gene: Weasels2_18 Start: 5542, Stop: 5186, Start Num: 48
Candidate Starts for Weasels2_18:
(Start: 48 @5542 has 27 MA's), (72, 5473), (75, 5455), (155, 5224), (161, 5209), (166, 5200),

Gene: Weasels2_237 Start: 116136, Stop: 116522, Start Num: 41
Candidate Starts for Weasels2_237:
(39, 116130), (Start: 41 @116136 has 5 MA's), (89, 116286), (140, 116433), (159, 116493),

Gene: Weasels2_22 Start: 6969, Stop: 6571, Start Num: 43
Candidate Starts for Weasels2_22:
(Start: 43 @6969 has 3 MA's), (Start: 56 @6942 has 17 MA's), (79, 6867), (96, 6786), (125, 6723), (135, 6690), (147, 6657),

Gene: Whirlwind_43 Start: 35405, Stop: 35812, Start Num: 22
Candidate Starts for Whirlwind_43:
(Start: 18 @35384 has 3 MA's), (Start: 19 @35396 has 10 MA's), (Start: 22 @35405 has 42 MA's), (Start: 56 @35489 has 17 MA's), (61, 35507), (Start: 67 @35525 has 1 MA's), (70, 35534), (110,

35651), (157, 35789),

Gene: Wiggin_82 Start: 49742, Stop: 50074, Start Num: 55

Candidate Starts for Wiggin_82:

(6, 49490), (Start: 48 @49727 has 27 MA's), (Start: 55 @49742 has 110 MA's), (65, 49778), (155, 50054),

Gene: Wiggin_70 Start: 45095, Stop: 45505, Start Num: 45

Candidate Starts for Wiggin_70:

(10, 44921), (Start: 45 @45095 has 135 MA's), (80, 45191), (91, 45236), (103, 45284), (117, 45332), (145, 45425), (155, 45467),

Gene: Wiggin_75 Start: 47368, Stop: 47739, Start Num: 54

Candidate Starts for Wiggin_75:

(Start: 51 @47362 has 89 MA's), (Start: 54 @47368 has 44 MA's), (76, 47440), (91, 47500), (143, 47671),

Gene: Wigglewigggle_45 Start: 35380, Stop: 35805, Start Num: 19

Candidate Starts for Wigglewigggle_45:

(Start: 19 @35380 has 10 MA's), (Start: 22 @35389 has 42 MA's), (Start: 56 @35476 has 17 MA's), (61, 35494), (70, 35521), (71, 35524), (92, 35599), (95, 35611), (138, 35719), (157, 35782),

Gene: Wilder_45 Start: 35362, Stop: 35778, Start Num: 22

Candidate Starts for Wilder_45:

(Start: 19 @35353 has 10 MA's), (Start: 22 @35362 has 42 MA's), (Start: 56 @35449 has 17 MA's), (61, 35467), (70, 35494), (71, 35497), (92, 35572), (95, 35584), (138, 35692), (157, 35755),

Gene: Willez_75 Start: 47920, Stop: 48270, Start Num: 48

Candidate Starts for Willez_75:

(6, 47683), (Start: 48 @47920 has 27 MA's), (Start: 55 @47935 has 110 MA's), (65, 47971), (111, 48112), (125, 48151), (136, 48187), (137, 48190), (145, 48208), (155, 48250),

Gene: Willez_68 Start: 45564, Stop: 45932, Start Num: 54

Candidate Starts for Willez_68:

(Start: 51 @45558 has 89 MA's), (Start: 54 @45564 has 44 MA's), (76, 45636), (91, 45696), (143, 45864),

Gene: Willez_63 Start: 43291, Stop: 43704, Start Num: 45

Candidate Starts for Willez_63:

(10, 43117), (Start: 45 @43291 has 135 MA's), (91, 43432), (100, 43474), (133, 43582), (145, 43621), (165, 43684),

Gene: Winky_45 Start: 35347, Stop: 35772, Start Num: 19

Candidate Starts for Winky_45:

(Start: 19 @35347 has 10 MA's), (Start: 22 @35356 has 42 MA's), (Start: 56 @35443 has 17 MA's), (61, 35461), (70, 35488), (71, 35491), (92, 35566), (95, 35578), (138, 35686), (157, 35749),

Gene: Wyatt2_43 Start: 34025, Stop: 34441, Start Num: 22

Candidate Starts for Wyatt2_43:

(Start: 18 @34004 has 3 MA's), (Start: 22 @34025 has 42 MA's), (Start: 47 @34091 has 3 MA's), (Start: 56 @34112 has 17 MA's), (61, 34130), (73, 34169), (78, 34181), (92, 34238), (119, 34298), (157, 34418),

Gene: Xandras_72 Start: 46773, Stop: 47147, Start Num: 51
Candidate Starts for Xandras_72:
(Start: 51 @46773 has 89 MA's), (Start: 54 @46779 has 44 MA's), (76, 46851), (91, 46911), (143, 47079),

Gene: Xandras_79 Start: 49150, Stop: 49482, Start Num: 55
Candidate Starts for Xandras_79:
(1, 48580), (2, 48697), (6, 48898), (Start: 48 @49135 has 27 MA's), (Start: 55 @49150 has 110 MA's), (65, 49186), (155, 49462),

Gene: Xandras_67 Start: 44506, Stop: 44916, Start Num: 45
Candidate Starts for Xandras_67:
(Start: 45 @44506 has 135 MA's), (91, 44647), (103, 44695), (117, 44743), (145, 44836), (155, 44878),

Gene: Xiaokay_107 Start: 63424, Stop: 63744, Start Num: 44
Candidate Starts for Xiaokay_107:
(Start: 44 @63424 has 30 MA's), (61, 63463), (109, 63619), (116, 63649), (118, 63655), (128, 63685), (139, 63730),

Gene: Xiaokay_130 Start: 73215, Stop: 73574, Start Num: 46
Candidate Starts for Xiaokay_130:
(31, 73188), (Start: 46 @73215 has 36 MA's), (Start: 51 @73224 has 89 MA's), (92, 73356), (96, 73371), (143, 73506),

Gene: Yakult_64 Start: 44046, Stop: 44489, Start Num: 16
Candidate Starts for Yakult_64:
(Start: 16 @44046 has 2 MA's), (66, 44154), (74, 44181), (81, 44199), (92, 44241), (96, 44256), (98, 44262), (115, 44325), (133, 44382), (146, 44424),

Gene: YassJohnny_65 Start: 44464, Stop: 44877, Start Num: 45
Candidate Starts for YassJohnny_65:
(10, 44290), (Start: 45 @44464 has 135 MA's), (91, 44605), (100, 44647), (133, 44755), (145, 44794), (165, 44857),

Gene: YassJohnny_77 Start: 49090, Stop: 49440, Start Num: 48
Candidate Starts for YassJohnny_77:
(6, 48853), (Start: 48 @49090 has 27 MA's), (Start: 55 @49105 has 110 MA's), (65, 49141), (111, 49282), (125, 49321), (136, 49357), (137, 49360), (145, 49378), (155, 49420),

Gene: YassJohnny_70 Start: 46740, Stop: 47102, Start Num: 54
Candidate Starts for YassJohnny_70:
(Start: 51 @46734 has 89 MA's), (Start: 54 @46740 has 44 MA's), (99, 46896), (137, 47019), (157, 47085),

Gene: Yeet_109 Start: 64277, Stop: 64597, Start Num: 44
Candidate Starts for Yeet_109:
(Start: 44 @64277 has 30 MA's), (61, 64316), (92, 64415), (109, 64472), (118, 64508), (128, 64538), (139, 64583),

Gene: Yeet_128 Start: 73023, Stop: 73382, Start Num: 46
Candidate Starts for Yeet_128:
(31, 72996), (Start: 46 @73023 has 36 MA's), (Start: 51 @73032 has 89 MA's), (92, 73164), (96, 73179), (140, 73308), (143, 73314),

Gene: Youngblood_71 Start: 45976, Stop: 46386, Start Num: 45
Candidate Starts for Youngblood_71:
(10, 45802), (Start: 45 @45976 has 135 MA's), (91, 46117), (103, 46165), (117, 46213), (145, 46306),
(155, 46348),

Gene: Youngblood_76 Start: 48246, Stop: 48614, Start Num: 54
Candidate Starts for Youngblood_76:
(Start: 51 @48240 has 89 MA's), (Start: 54 @48246 has 44 MA's), (76, 48318), (91, 48378), (143,
48546),

Gene: Youngblood_83 Start: 50617, Stop: 50952, Start Num: 55
Candidate Starts for Youngblood_83:
(6, 50365), (Start: 48 @50602 has 27 MA's), (Start: 55 @50617 has 110 MA's), (65, 50653), (155,
50932),

Gene: Zakai_45 Start: 35614, Stop: 36030, Start Num: 22
Candidate Starts for Zakai_45:
(Start: 19 @35605 has 10 MA's), (Start: 22 @35614 has 42 MA's), (Start: 56 @35701 has 17 MA's),
(61, 35719), (70, 35746), (71, 35749), (92, 35824), (95, 35836), (138, 35944), (157, 36007),

Gene: Zaria_43 Start: 34040, Stop: 34456, Start Num: 22
Candidate Starts for Zaria_43:
(Start: 18 @34019 has 3 MA's), (Start: 22 @34040 has 42 MA's), (Start: 47 @34106 has 3 MA's),
(Start: 56 @34127 has 17 MA's), (61, 34145), (73, 34184), (78, 34196), (92, 34253), (119, 34313),
(157, 34433),

Gene: Zelink_129 Start: 73772, Stop: 74131, Start Num: 46
Candidate Starts for Zelink_129:
(31, 73745), (Start: 46 @73772 has 36 MA's), (Start: 51 @73781 has 89 MA's), (92, 73913), (96,
73928), (140, 74057), (143, 74063),

Gene: ZhongYanYuan_43 Start: 35304, Stop: 35633, Start Num: 56
Candidate Starts for ZhongYanYuan_43:
(Start: 19 @35208 has 10 MA's), (Start: 22 @35217 has 42 MA's), (Start: 56 @35304 has 17 MA's),
(61, 35322), (70, 35349), (71, 35352), (92, 35430), (138, 35547), (157, 35610),

Gene: xkcd_83 Start: 50807, Stop: 51139, Start Num: 55
Candidate Starts for xkcd_83:
(Start: 48 @50792 has 27 MA's), (Start: 55 @50807 has 110 MA's), (65, 50843), (155, 51119),

Gene: xkcd_71 Start: 46166, Stop: 46576, Start Num: 45
Candidate Starts for xkcd_71:
(Start: 45 @46166 has 135 MA's), (91, 46307), (103, 46355), (117, 46403), (145, 46496), (155, 46538),

Gene: xkcd_76 Start: 48430, Stop: 48804, Start Num: 51
Candidate Starts for xkcd_76:
(Start: 51 @48430 has 89 MA's), (Start: 54 @48436 has 44 MA's), (76, 48508), (91, 48568), (143,
48736),