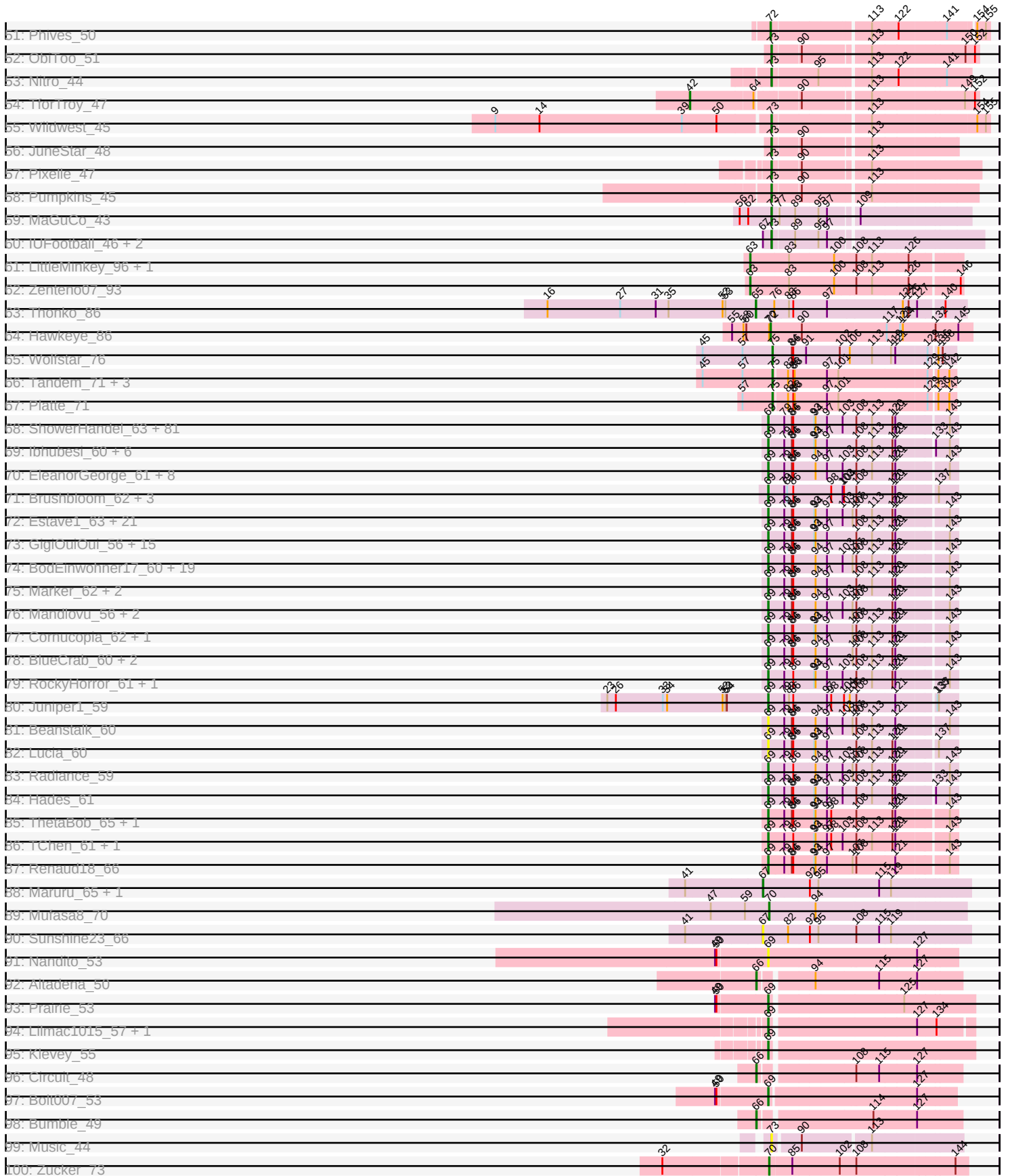


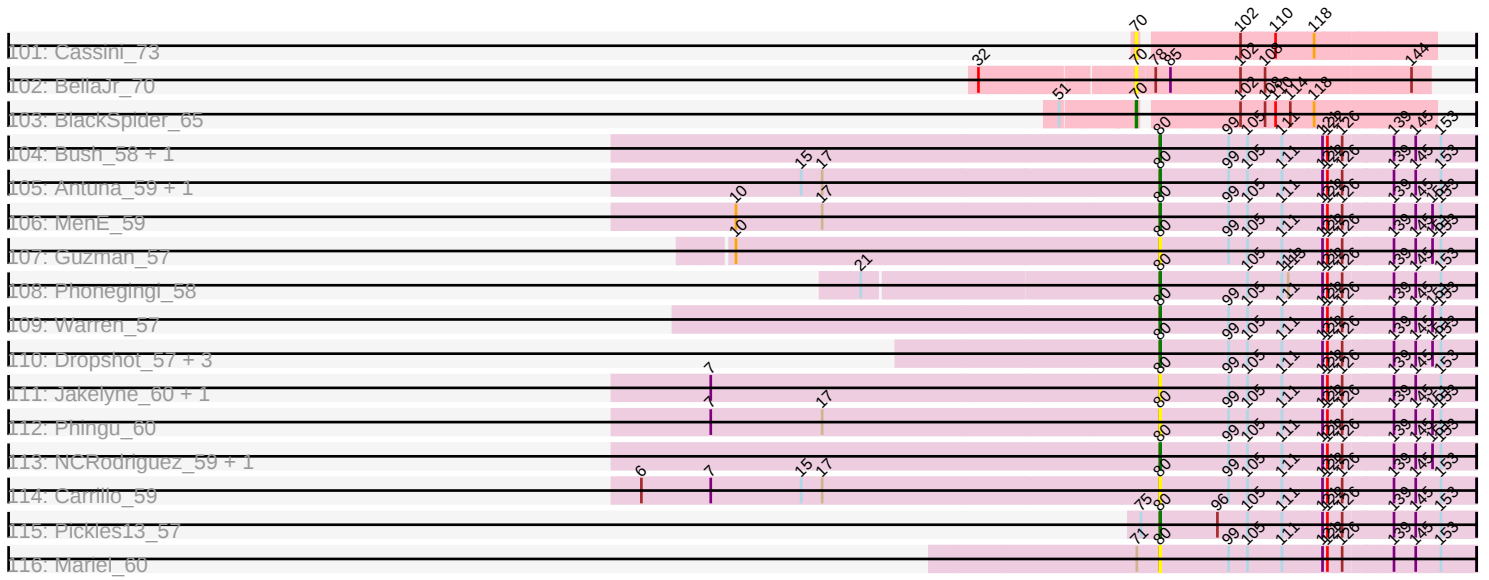
Pham 280013



Pham 280013



Pham 280013



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 280013 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280013 has 327 members, 56 are drafts.

Phages represented in each track:

- Track 1 : MalagasyRose_65
- Track 2 : Antrice_35
- Track 3 : Cygnet_32
- Track 4 : LittleTokyo_33
- Track 5 : Zhuangyuan_36
- Track 6 : Hillester_80, BasketStar_76, DarwinJr_81, Lasker_78, RadFad_81, Crescenzo_81
- Track 7 : BillyTP_77, Windest_80, Lawnathon_78
- Track 8 : Ding_76
- Track 9 : Raphaella_77, Mapleville_72, Kabloowy_76, Hestia_70, AdaS_72, Faja_79, YoungHarleezy_76, BenchScraper_76, JellyBread_73, CookieBear_75, Sporco_78
- Track 10 : Aikyam_75, Gorpy_74, MaterMagnus_76, SonDevVon_83, Sakai_73
- Track 11 : MurphyJoseph_72
- Track 12 : BlueShadow_74
- Track 13 : Anekin_78
- Track 14 : Shukran_73
- Track 15 : Persistence_70
- Track 16 : GumGum_81
- Track 17 : Raqqa_74
- Track 18 : Globfish_76, ThayneTheZag_81, EvePickles_75
- Track 19 : SpicyFrank_78, MidnightRain_81
- Track 20 : Auxilium_74
- Track 21 : LeBruni_79
- Track 22 : Richie_79
- Track 23 : Seahorse_84
- Track 24 : MUWow_78
- Track 25 : Phrank15_80
- Track 26 : Bhageatrice_80
- Track 27 : Tiff81_72
- Track 28 : Isolde_74
- Track 29 : Sashimi_74
- Track 30 : NewKitty_78
- Track 31 : ThursdayNight_48
- Track 32 : Simpson_48, JohnDoe_46, Flutur_45, Joemato_46
- Track 33 : Tutumahutu_47, Powerpuff_48, AGrandiflora_48, Cyan_46, Lego_45, YesChef_46

- Track 34 : Kaylissa_47
- Track 35 : Tbone_46
- Track 36 : Lizalica_44
- Track 37 : Tuck_49
- Track 38 : Amyev_46, Tian_45
- Track 39 : Warda_46
- Track 40 : DrSierra_43
- Track 41 : Schaffner_46
- Track 42 : Cassia_45
- Track 43 : Yang_46
- Track 44 : Community_48
- Track 45 : lter_45
- Track 46 : lttYBittyPiggy_46
- Track 47 : Crewmate_51
- Track 48 : Ascela_45
- Track 49 : Janeemi_48
- Track 50 : Mudpuppy_42
- Track 51 : Phives_50
- Track 52 : ObiToo_51
- Track 53 : Nitro_44
- Track 54 : TforTroy_47
- Track 55 : Wildwest_45
- Track 56 : JuneStar_48
- Track 57 : Pixelle_47
- Track 58 : Pumpkins_45
- Track 59 : MaGuCo_43
- Track 60 : IUFootball_46, Liebe_46, Maureen_46
- Track 61 : LittleMinkey_96, Hashim76_90
- Track 62 : Zenteno07_93
- Track 63 : Thonko_86
- Track 64 : Hawkeye_86
- Track 65 : Wolfstar_76
- Track 66 : Tandem_71, OlinDD_71, Hortus1_71, Pioneer3_71
- Track 67 : Platte_71
- Track 68 : ShowerHandel_63, PhilipPhlop_60, Zizzle_64, Cabrinians_61, Burwell21_58, Taj_64, Jinglebell_65, Ochi17_63, Brocalys_55, Wee_64, DeadP_66, KingJulian_60, Sassafras_58, Soul22_66, OfUltron_65, Eradicator_53, SiSi_58, EmiMonkey_58, Hegedechwinu_60, Alexphander_64, LastJedi_54, Lizziana_66, Blarby_72, Priscilla_60, Whouxphf_57, Zerg_60, Llama_65, VRedHorse_60, MinionDave_59, PatoPoderoso_57, Emmaloid_61, Pollywog_61, Chuckly_63, IbOuu_61, Maravista_61, Peridot_61, Zapner_73, Saal_62, BobaPhett_64, BuzzLyseyear_66, Enby_61, Seabastian_65, CaptainTrips_57, ShiLan_59, OwlsT2W_60, NormanBulbieJr_60, AlpineSix_65, PMC_57, Clifton_55, Totinger_59, Modragons_64, Jabbawokkie_74, Corium_57, Gorge_64, Rockne_61, Eish_64, Dante_61, OlympiaSaint_62, DaWorst_61, Oksu_64, Boomer_65, James_64, Mattes_64, Firehouse51_61, Inventum_55, Koella_54, Pippy_58, SG4_57, Martik_60, Yorick_59, FreddyB_61, LittleShirley_59, Karhdo_57, Mutaforma13_64, Rita_61, Dorothy_58, SwagPigglett_65, Slim_61, Starceвич_60, Gumbie_58, Polka14_58, Crumble_55
- Track 69 : Ibhubesi_60, Phasih_58, Fastidio_60, Demsculpinboyz_71, Sabbb_64, DillTech15_57, SimranZ1_60
- Track 70 : EleanorGeorge_61, Blexus_58, Scottish_58, Mova_61, Madiba_58, KristaRAM_63, Gandolph_63, MadMen_58, ShroomBoi_62

- Track 71 : Brushbloom_62, Batiatus_58, MilleniumForce_63, Ramsey_59
- Track 72 : Estave1_63, Llij_56, Phatniss_58, LilMoolah_58, Drago_58, QuickMath_62, DRBy19_63, Kersh_62, Veteran_57, JarcoB_60, DirtMcgirt_59, Kimberlium_63, MulchExplorer_67, Avani_68, Lorde_60, Job42_62, UncleRicky_59, Mwanjiwa_66, Jennelsea_57, Philus_63, Nivrat_56, Rialto_66
- Track 73 : GigiOuiOui_56, Latretium_62, Girr_58, Cornie_56, Ruby_56, Spartacus_62, WillSterrel_61, Cheesepuff_67, IrishSherpFalk_61, MisterCuddles_58, NewHope4_61, Mahavrat_58, Galactic_59, Grimmer_70, LunaBlu_62, Mozy_69
- Track 74 : BodEinwohner17_60, Leperchaun_52, Leozinho_59, Daenerys_54, Doomphist_60, JoeyJr_55, Spoonbill_57, Poenanya_60, PHappiness_55, DosHalletts_62, Tootsieroll_61, Vivum_63, Plumbus_62, ByChance_52, Empress_58, DaddyRickover_59, Violac_62, Pacc40_54, KingMidas_59, RitaG_55
- Track 75 : Marker_62, OldBen_57, Spikelee_67
- Track 76 : Mandlovu_56, Hlubikazi_56, Strokeseat_56
- Track 77 : Cornucopia_62, Topiatin_68
- Track 78 : BlueCrab_60, Byougenkin_58, Fancypants_62
- Track 79 : RockyHorror_61, Doug_62
- Track 80 : Juniper1_59
- Track 81 : Beanstalk_60
- Track 82 : Lucia_60
- Track 83 : Radiance_59
- Track 84 : Hades_61
- Track 85 : ThetaBob_65, Yoshi_73
- Track 86 : TChen_61, LunaStella_59
- Track 87 : Renaud18_66
- Track 88 : Maruru_65, Sonali_65
- Track 89 : Mufasa8_70
- Track 90 : Sunshine23_66
- Track 91 : Nandito_53
- Track 92 : Altadena_50
- Track 93 : Prairie_53
- Track 94 : Lilmac1015_57, CalWood4100_57
- Track 95 : Klevey_55
- Track 96 : Circuit_48
- Track 97 : Bolt007_53
- Track 98 : Bumble_49
- Track 99 : Music_44
- Track 100 : Zucker_73
- Track 101 : Cassini_73
- Track 102 : BellaJr_70
- Track 103 : BlackSpider_65
- Track 104 : Bush_58, CookieDog_57
- Track 105 : Antuna_59, Losacky_59
- Track 106 : MenE_59
- Track 107 : Guzman_57
- Track 108 : Phonegingi_58
- Track 109 : Warren_57
- Track 110 : Dropshot_57, PhillyJawn_58, Appa_57, Winchester007_4
- Track 111 : Jakelyne_60, Violeta_59
- Track 112 : Phingu_60
- Track 113 : NCRodriguez_59, Blett_57
- Track 114 : Carrillo_59
- Track 115 : Pickles13_57

- Track 116 : Mariel_60

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

The start number called the most often in the published annotations is 69, it was called in 171 of the 271 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_64, AlpineSix_65, Avani_68, Batiatius_58, Beanstalk_60, Blarby_72, Blexus_58, BlueCrab_60, BobaPhett_64, BodEinwohner17_60, Bolt007_53, Boomer_65, Brocalys_55, Brushbloom_62, Burwell21_58, BuzzLyseyear_66, ByChance_52, Byougenkin_58, Cabrinians_61, CalWood4100_57, CaptainTrips_57, CheesePuff_67, Chuckly_63, Clifton_55, Corium_57, Cornie_56, Cornucopia_62, Crumble_55, DRBy19_63, DaWorst_61, DaddyRickover_59, Daenerys_54, Dante_61, DeadP_66, Demsculpinboyz_71, DillTech15_57, DirtMcGirt_59, Doomphist_60, Dorothy_58, DosHalletts_62, Doug_62, Drago_58, Eish_64, EleanorGeorge_61, EmiMonkey_58, Emmaloid_61, Empress_58, Enby_61, Eradicator_53, Estave1_63, Fancypants_62, Fastidio_60, Firehouse51_61, FreddyB_61, GUmbie_58, Galactic_59, Gandolph_63, GigiOuiOui_56, Girr_58, Gorge_64, Grimmer_70, Hades_61, Hegedechwinu_60, Hlubikazi_56, IbOuu_61, Ibhubesi_60, Inventum_55, IrishSherpFalk_61, Jabbawokkie_74, James_64, Jacob_60, Jennelsea_57, Jinglebell_65, Job42_62, JoeyJr_55, Juniper1_59, Karhdo_57, Kersh_62, Kimberlium_63, KingJulian_60, KingMidas_59, Klevey_55, Koella_54, KristaRAM_63, LastJedi_54, Latretium_62, Leozinho_59, Leperchaun_52, LilMoolah_58, Lilmac1015_57, LittleShirley_59, Lizziana_66, Llama_65, Llij_56, Lorde_60, Lucia_60, LunaBlu_62, LunaStella_59, MadMen_58, Madiba_58, Mahavrat_58, Mandlovu_56, Maravista_61, Marker_62, Martik_60, Mattes_64, MilleniumForce_63, MinionDave_59, MisterCuddles_58, Modragons_64, Mova_61, Mozy_69, MulchExplorer_67, Mutaforma13_64, Mwanjiwa_66, Nandito_53, NewHope4_61, Nivrat_56, NormanBulbieJr_60, Ochi17_63, OfUltron_65, Oksu_64, OldBen_57, OlympiaSaint_62, OwlST2W_60, PHappiness_55, PMC_57, Pacc40_54, PatoPoderoso_57, Peridot_61, Phasih_58, Phatniss_58, Philus_63, PhilipPhlop_60, Pippy_58, Plumbus_62, Poenanya_60, Polka14_58, Pollywog_61, Prairie_53, Priscilla_60, QuickMath_62, Radiance_59, Ramsey_59, Renaud18_66, Rialto_66, RitaG_55, Rita_61, Rockne_61, RockyHorror_61, Ruby_56, SG4_57, Saal_62, Sabbb_64, Sassafras_58, Scottish_58, Seabastian_65, ShiLan_59, ShowerHandel_63, ShroomBoi_62, SiSi_58, SimranZ1_60, Slim_61, Soul22_66, Spartacus_62, Spikelee_67, Spoonbill_57, Starcevich_60, Strokeseat_56, SwagPigglett_65, TChen_61, Taj_64, ThetaBob_65, Tootsieroll_61, Topiatin_68, Totinger_59, UncleRicky_59, VRedHorse_60, Veteran_57, Violac_62, Vivum_63, Wee_64, Whouxphf_57, WillSterrel_61, Yorick_59, Yoshi_73, Zapner_73, Zerg_60, Zizzle_64,

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

-

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

- AGrandiflora_48, AdaS_72, Aikyam_75, Altadena_50, Amyev_46, Anekin_78, Antrice_35, Antuna_59, Appa_57, Ascela_45, Auxilium_74, BasketStar_76, BellaJr_70, BenchScraper_76, Bhageatrice_80, BillyTP_77, BlackSpider_65,

Blett_57, BlueShadow_74, Bumble_49, Bush_58, Carrillo_59, Cassia_45, Cassini_73, Circuit_48, Community_48, CookieBear_75, CookieDog_57, Crescenzo_81, Crewmate_51, Cyan_46, Cygnet_32, DarwinJr_81, Ding_76, DrSierra_43, Dropshot_57, EvePickles_75, Faja_79, Flutur_45, Globfish_76, Gorpy_74, GumGum_81, Guzman_57, Hashim76_90, Hawkeye_86, Hestia_70, Hillester_80, Hortus1_71, IUFootball_46, Isolde_74, Iter_45, IttyBittyPiggy_46, Jakelyne_60, Janeemi_48, JellyBread_73, Joemato_46, JohnDoe_46, JuneStar_48, Kabloowy_76, Kaylissa_47, Lasker_78, Lawnathon_78, LeBruni_79, Lego_45, Liebe_46, LittleMinkey_96, LittleTokyo_33, Lizalica_44, Losacky_59, MUWow_78, MaGuCo_43, MalagasyRose_65, Mapleville_72, Mariel_60, Maruru_65, MaterMagnus_76, Maureen_46, MenE_59, MidnightRain_81, Mudpuppy_42, Mufasa8_70, MurphyJoseph_72, Music_44, NCRodriguez_59, NewKitty_78, Nitro_44, ObiToo_51, OlinDD_71, Persistence_70, PhillyJawn_58, Phingu_60, Phives_50, Phonegingi_58, Phrank15_80, Pickles13_57, Pioneer3_71, Pixelle_47, Platte_71, Powerpuff_48, Pumpkins_45, RadFad_81, Raphaella_77, Raqqa_74, Richie_79, Sakai_73, Sashimi_74, Schaffner_46, Seahorse_84, Shukran_73, Simpson_48, SonDevVon_83, Sonali_65, SpicyFrank_78, Sporco_78, Sunshine23_66, Tandem_71, Tbone_46, TforTroy_47, ThayneTheZag_81, Thonko_86, ThursdayNight_48, Tian_45, Tiff81_72, Tuck_49, Tutumahutu_47, Violeta_59, Warda_46, Warren_57, Wildwest_45, Winchester007_4, Windest_80, Wolfstar_76, Yang_46, YesChef_46, YoungHarleezy_76, Zenteno07_93, Zhuangyuan_36, Zucker_73,

Summary by start number:

Start 42:

- Found in 1 of 327 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 271
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TforTroy_47 (AZ1),

Start 63:

- Found in 3 of 327 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 271
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hashim76_90 (B13), LittleMinkey_96 (B13), Zenteno07_93 (B13),

Start 65:

- Found in 1 of 327 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 271
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Thonko_86 (B8),

Start 66:

- Found in 6 of 327 (1.8%) of genes in pham
- Manual Annotations of this start: 5 of 271
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altadena_50 (FH), Antrice_35 (AS2), Bumble_49 (FH), Circuit_48 (FH), Cygnet_32 (AS2), Zhuangyuan_36 (AS2),

Start 67:

- Found in 6 of 327 (1.8%) of genes in pham

- Manual Annotations of this start: 2 of 271
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Maruru_65 (FG), Sonali_65 (FG), Sunshine23_66 (FG),

Start 69:

- Found in 189 of 327 (57.8%) of genes in pham
- Manual Annotations of this start: 171 of 271
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alexphander_64 (F1), AlpineSix_65 (F1), Avani_68 (F2), Batiatus_58 (F1), Beanstalk_60 (F1), Blarby_72 (F), Blexus_58 (F1), BlueCrab_60 (F1), BobaPhett_64 (F1), BodEinwohner17_60 (F1), Bolt007_53 (FH), Boomer_65 (F1), Brocalys_55 (F1), Brushbloom_62 (F1), Burwell21_58 (F1), BuzzLyseyear_66 (F1), ByChance_52 (F1), Byougenkin_58 (F1), Cabrinians_61 (F1), CalWood4100_57 (FH), CaptainTrips_57 (F1), Cheesepuff_67 (F1), Chuckly_63 (F1), Clifton_55 (F1), Corium_57 (F1), Cornie_56 (F5), Cornucopia_62 (F1), Crumble_55 (F1), DRBy19_63 (F1), DaWorst_61 (F1), DaddyRickover_59 (F1), Daenerys_54 (F1), Dante_61 (F1), DeadP_66 (F1), Demsculpinboyz_71 (F2), DillTech15_57 (F1), DirtMcGirt_59 (F1), Doomphist_60 (F1), Dorothy_58 (F1), DosHalletts_62 (F1), Doug_62 (F1), Drago_58 (F1), Eish_64 (F1), EleanorGeorge_61 (F1), EmiMonkey_58 (F1), Emmaloid_61 (F1), Empress_58 (F1), Enby_61 (F1), Eradicator_53 (F1), Estave1_63 (F1), Fancypants_62 (F1), Fastidio_60 (F1), Firehouse51_61 (F1), FreddyB_61 (F1), GUmbie_58 (F1), Galactic_59 (F1), Gandolph_63 (F1), GigiOuiOui_56 (F1), Girr_58 (F1), Gorge_64 (F1), Grimmer_70 (F1), Hades_61 (F1), Hegedechwinu_60 (F1), Hlubikazi_56 (F1), IbOuu_61 (F1), Ibhubesi_60 (F1), Inventum_55 (F1), IrishSherpFalk_61 (F1), Jabbawokkie_74 (F2), James_64 (F1), Jacob_60 (F1), Jennelsea_57 (F1), Jinglebell_65 (F1), Job42_62 (F1), JoeyJr_55 (F1), Juniper1_59 (F1), Karhdo_57 (F1), Kersh_62 (F1), Kimberlium_63 (F1), KingJulian_60 (F1), KingMidas_59 (F1), Klevey_55 (FH), Koella_54 (F1), KristaRAM_63 (F1), LastJedi_54 (F1), Latretium_62 (F1), Leozinho_59 (F1), Leperchaun_52 (F1), LilMoolah_58 (F1), Lilmac1015_57 (FH), LittleShirley_59 (F1), Lizziana_66 (F1), Llama_65 (F1), Llij_56 (F1), Lorde_60 (F1), Lucia_60 (F1), LunaBlu_62 (F1), LunaStella_59 (F4), MadMen_58 (F1), Madiba_58 (F1), Mahavrat_58 (F1), Mandlovu_56 (F1), Maravista_61 (F1), Marker_62 (F1), Martik_60 (F1), Mattes_64 (F1), MilleniumForce_63 (F1), MinionDave_59 (F1), MisterCuddles_58 (F1), Modragons_64 (F1), Mova_61 (F1), Mozy_69 (F1), MulchExplorer_67 (F1), Mutaforma13_64 (F1), Mwanjiwa_66 (F1), Nandito_53 (FH), NewHope4_61 (F1), Nivrat_56 (F1), NormanBulbieJr_60 (F1), Ochi17_63 (F1), OfUltron_65 (F1), Oksu_64 (F1), OldBen_57 (F1), OlympiaSaint_62 (F1), OwlsT2W_60 (F1), PHappiness_55 (F1), PMC_57 (F1), Pacc40_54 (F1), PatoPoderoso_57 (F1), Peridot_61 (F1), Phasiñ_58 (F1), Phatniiss_58 (F1), Philus_63 (F1), PhilipPhlop_60 (F1), Pippy_58 (F1), Plumbus_62 (F1), Poenanya_60 (F1), Polka14_58 (F1), Pollywog_61 (F1), Prairie_53 (FH), Priscilla_60 (F1), QuickMath_62 (F1), Radiance_59 (F1), Ramsey_59 (F1), Renaud18_66 (F4), Rialto_66 (F1), RitaG_55 (F1), Rita_61 (F1), Rockne_61 (F1), RockyHorror_61 (F1), Ruby_56 (F1), SG4_57 (F1), Saal_62 (F1), Sabbb_64 (F1), Sassafras_58 (F1), Scottish_58 (F1), Seabastian_65 (F1), ShiLan_59 (F1), ShowerHandel_63 (F1), ShroomBoi_62 (F1), SiSi_58 (F1), SimranZ1_60 (F1), Slim_61 (F1), Soul22_66 (F2), Spartacus_62 (F1), Spikelee_67 (F1), Spoonbill_57 (F1), Starcevic_60 (F1), Strokeseat_56 (F1), SwagPigglett_65 (F1), TChen_61 (F4), Taj_64 (F1), ThetaBob_65 (F4), Tootsieroll_61 (F1), Topiatin_68 (F1), Totinger_59 (F1), UncleRicky_59 (F1), VRedHorse_60 (F1), Veteran_57 (F1), Violac_62 (F1), Vivum_63 (F1), Wee_64 (F1), Whouxphf_57 (F1), WillSterrel_61 (F1), Yorick_59 (F1),

Yoshi_73 (F2), Zapner_73 (F2), Zerg_60 (F1), Zizzle_64 (F1),

Start 70:

- Found in 55 of 327 (16.8%) of genes in pham
- Manual Annotations of this start: 36 of 271
- Called 96.4% of time when present
- Phage (with cluster) where this start called: AdaS_72 (AY), Aikyam_75 (AY), Anekin_78 (AY), Auxilium_74 (AY), BasketStar_76 (AY), BellaJr_70 (FN), BenchScraper_76 (AY), Bhageatrice_80 (AY), BillyTP_77 (AY), BlackSpider_65 (FN), BlueShadow_74 (AY), Cassini_73 (FN), CookieBear_75 (AY), Crescenzo_81 (AY), DarwinJr_81 (AY), Ding_76 (AY), EvePickles_75 (AY), Faja_79 (AY), Globfish_76 (AY), Gorpy_74 (AY), GumGum_81 (AY), Hestia_70 (AY), Hillester_80 (AY), Isolde_74 (AY), JellyBread_73 (AY), Kabloowy_76 (AY), Lasker_78 (AY), Lawnathon_78 (AY), LeBruni_79 (AY), MUWow_78 (AY), Mapleville_72 (AY), MaterMagnus_76 (AY), MidnightRain_81 (AY), Mufasa8_70 (FG), MurphyJoseph_72 (AY), NewKitty_78 (AY), Persistence_70 (AY), Phrank15_80 (AY), RadFad_81 (AY), Raphaella_77 (AY), Richie_79 (AY), Sakai_73 (AY), Sashimi_74 (AY), Seahorse_84 (AY), Shukran_73 (AY), SonDevVon_83 (AY), SpicyFrank_78 (AY), Sporco_78 (AY), ThayneTheZag_81 (AY), Tiff81_72 (AY), Windest_80 (AY), YoungHarleezy_76 (AY), Zucker_73 (FN),

Start 72:

- Found in 2 of 327 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 271
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_86 (D2), Phives_50 (AZ1),

Start 73:

- Found in 40 of 327 (12.2%) of genes in pham
- Manual Annotations of this start: 32 of 271
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AGrandiflora_48 (AZ1), Amyev_46 (AZ1), Ascela_45 (AZ1), Cassia_45 (AZ1), Community_48 (AZ1), Crewmate_51 (AZ1), Cyan_46 (AZ1), DrSierra_43 (AZ1), Flutur_45 (AZ1), IUFootball_46 (AZ2), Iter_45 (AZ1), IttyBittyPiggy_46 (AZ1), Janeemi_48 (AZ1), Joemato_46 (AZ1), JohnDoe_46 (AZ1), JuneStar_48 (AZ1), Kaylissa_47 (AZ1), Lego_45 (AZ1), Liebe_46 (AZ2), Lizalica_44 (AZ1), MaGuCo_43 (AZ2), Maureen_46 (AZ2), Mudpuppy_42 (AZ1), Music_44 (FL), Nitro_44 (AZ1), ObiToo_51 (AZ1), Pixelle_47 (AZ1), Powerpuff_48 (AZ1), Pumpkins_45 (AZ1), Schaffner_46 (AZ1), Simpson_48 (AZ1), Tbone_46 (AZ1), ThursdayNight_48 (AZ), Tian_45 (AZ1), Tuck_49 (AZ1), Tutumahutu_47 (AZ1), Warda_46 (AZ1), Wildwest_45 (AZ1), Yang_46 (AZ1), YesChef_46 (AZ1),

Start 74:

- Found in 1 of 327 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 271
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleTokyo_33 (AS2),

Start 75:

- Found in 7 of 327 (2.1%) of genes in pham
- Manual Annotations of this start: 6 of 271
- Called 85.7% of time when present

- Phage (with cluster) where this start called: Hortus1_71 (ED1), OlinDD_71 (ED1), Pioneer3_71 (ED1), Platte_71 (ED1), Tandem_71 (ED1), Wolfstar_76 (ED),

Start 76:

- Found in 2 of 327 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 271
- Called 50.0% of time when present
- Phage (with cluster) where this start called: MalagasyRose_65 (AG),

Start 78:

- Found in 2 of 327 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Raqqa_74 (AY),

Start 80:

- Found in 20 of 327 (6.1%) of genes in pham
- Manual Annotations of this start: 11 of 271
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antuna_59 (GA), Appa_57 (GA), Blett_57 (GA), Bush_58 (GA), Carrillo_59 (GA), CookieDog_57 (GA), Dropshot_57 (GA), Guzman_57 (GA), Jakelyne_60 (GA), Losacky_59 (GA), Mariel_60 (GA), MenE_59 (GA), NCRodriguez_59 (GA), PhillyJawn_58 (GA), Phingu_60 (GA), Phonegingi_58 (GA), Pickles13_57 (GA), Violeta_59 (GA), Warren_57 (GA), Winchester007_4 (GA),

Summary by clusters:

There are 21 clusters represented in this pham: F1, F2, F4, F5, AG, AS2, F, ED, FL, FH, ED1, B13, GA, FG, AY, AZ1, AZ2, AZ, D2, B8, FN,

Info for manual annotations of cluster AG:

- Start number 76 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AS2:

- Start number 66 was manually annotated 2 times for cluster AS2.
- Start number 74 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AY:

- Start number 70 was manually annotated 33 times for cluster AY.

Info for manual annotations of cluster AZ1:

- Start number 42 was manually annotated 1 time for cluster AZ1.
- Start number 72 was manually annotated 1 time for cluster AZ1.
- Start number 73 was manually annotated 29 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 73 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster B13:

- Start number 63 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B8:

- Start number 65 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster D2:

- Start number 72 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster ED:

- Start number 75 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 75 was manually annotated 5 times for cluster ED1.

Info for manual annotations of cluster F1:

- Start number 69 was manually annotated 156 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 69 was manually annotated 6 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 69 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 69 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster FG:

- Start number 67 was manually annotated 2 times for cluster FG.
- Start number 70 was manually annotated 1 time for cluster FG.

Info for manual annotations of cluster FH:

- Start number 66 was manually annotated 3 times for cluster FH.
- Start number 69 was manually annotated 4 times for cluster FH.

Info for manual annotations of cluster FN:

- Start number 70 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster GA:

- Start number 80 was manually annotated 11 times for cluster GA.

Gene Information:

Gene: AGrandiflora_48 Start: 33790, Stop: 34203, Start Num: 73

Candidate Starts for AGrandiflora_48:

(Start: 73 @33790 has 32 MA's), (90, 33844), (113, 33970), (122, 34024), (154, 34177), (155, 34195),

Gene: AdaS_72 Start: 39804, Stop: 40205, Start Num: 70

Candidate Starts for AdaS_72:

(Start: 70 @39804 has 36 MA's), (108, 39972), (118, 40041),

Gene: Aikyam_75 Start: 40510, Stop: 40911, Start Num: 70

Candidate Starts for Aikyam_75:

(29, 40264), (Start: 70 @40510 has 36 MA's), (108, 40678), (118, 40747),

Gene: Alexphander_64 Start: 40703, Stop: 41068, Start Num: 69

Candidate Starts for Alexphander_64:

(Start: 69 @40703 has 171 MA's), (79, 40736), (84, 40751), (86, 40754), (93, 40793), (94, 40796), (97, 40817), (103, 40850), (108, 40877), (113, 40910), (120, 40952), (121, 40958), (143, 41054),

Gene: AlpineSix_65 Start: 42816, Stop: 43181, Start Num: 69

Candidate Starts for AlpineSix_65:

(Start: 69 @42816 has 171 MA's), (79, 42849), (84, 42864), (86, 42867), (93, 42906), (94, 42909), (97, 42930), (103, 42963), (108, 42990), (113, 43023), (120, 43065), (121, 43071), (143, 43167),

Gene: Altadena_50 Start: 34978, Stop: 35370, Start Num: 66

Candidate Starts for Altadena_50:

(Start: 66 @34978 has 5 MA's), (94, 35077), (115, 35206), (127, 35281),

Gene: Amyev_46 Start: 34828, Stop: 35223, Start Num: 73

Candidate Starts for Amyev_46:

(8, 34264), (12, 34336), (13, 34345), (18, 34423), (38, 34654), (48, 34726), (Start: 73 @34828 has 32 MA's), (90, 34882), (113, 35008),

Gene: Anekin_78 Start: 43082, Stop: 43483, Start Num: 70

Candidate Starts for Anekin_78:

(29, 42836), (Start: 70 @43082 has 36 MA's), (108, 43250), (118, 43319),

Gene: Antrice_35 Start: 22982, Stop: 22596, Start Num: 66

Candidate Starts for Antrice_35:

(Start: 66 @22982 has 5 MA's), (102, 22820), (110, 22775), (111, 22766), (130, 22634),

Gene: Antuna_59 Start: 34183, Stop: 34620, Start Num: 80

Candidate Starts for Antuna_59:

(15, 33676), (17, 33706), (Start: 80 @34183 has 11 MA's), (99, 34279), (105, 34306), (111, 34354), (121, 34411), (122, 34417), (126, 34438), (139, 34504), (145, 34534), (153, 34570),

Gene: Appa_57 Start: 33948, Stop: 34385, Start Num: 80

Candidate Starts for Appa_57:

(Start: 80 @33948 has 11 MA's), (99, 34044), (105, 34071), (111, 34119), (121, 34176), (122, 34182), (126, 34203), (139, 34269), (145, 34299), (151, 34323), (153, 34335),

Gene: Ascela_45 Start: 33111, Stop: 33515, Start Num: 73

Candidate Starts for Ascela_45:

(Start: 73 @33111 has 32 MA's), (95, 33198), (113, 33291), (122, 33345), (154, 33489),

Gene: Auxilium_74 Start: 40053, Stop: 40418, Start Num: 70

Candidate Starts for Auxilium_74:

(Start: 70 @40053 has 36 MA's), (92, 40116), (97, 40149), (108, 40209), (117, 40272),

Gene: Avani_68 Start: 41015, Stop: 41380, Start Num: 69

Candidate Starts for Avani_68:

(Start: 69 @41015 has 171 MA's), (79, 41048), (84, 41063), (86, 41066), (93, 41105), (94, 41108), (97, 41129), (103, 41162), (107, 41183), (108, 41189), (113, 41222), (120, 41264), (121, 41270), (143, 41366),

Gene: BasketStar_76 Start: 42848, Stop: 43237, Start Num: 70

Candidate Starts for BasketStar_76:

(1, 41279), (2, 41414), (3, 41525), (4, 41561), (5, 41624), (11, 42302), (24, 42518), (Start: 70 @42848 has 36 MA's), (102, 42971), (108, 43004), (110, 43019), (118, 43073), (134, 43163),

Gene: Batiatus_58 Start: 40347, Stop: 40712, Start Num: 69

Candidate Starts for Batiatus_58:

(Start: 69 @40347 has 171 MA's), (79, 40380), (81, 40386), (86, 40398), (98, 40470), (103, 40494), (104, 40497), (108, 40521), (120, 40596), (121, 40602), (137, 40677),

Gene: Beanstalk_60 Start: 39020, Stop: 39385, Start Num: 69

Candidate Starts for Beanstalk_60:

(Start: 69 @39020 has 171 MA's), (79, 39053), (84, 39068), (86, 39071), (94, 39113), (97, 39134), (103, 39167), (107, 39188), (108, 39194), (113, 39227), (121, 39275), (143, 39371),

Gene: BellaJr_70 Start: 41160, Stop: 41555, Start Num: 70

Candidate Starts for BellaJr_70:

(32, 40953), (Start: 70 @41160 has 36 MA's), (78, 41184), (85, 41205), (102, 41298), (108, 41331), (144, 41529),

Gene: BenchScraper_76 Start: 41215, Stop: 41616, Start Num: 70

Candidate Starts for BenchScraper_76:

(Start: 70 @41215 has 36 MA's), (108, 41383), (118, 41452),

Gene: Bhageatrice_80 Start: 44894, Stop: 45259, Start Num: 70

Candidate Starts for Bhageatrice_80:

(Start: 70 @44894 has 36 MA's), (92, 44957), (97, 44990), (108, 45050), (117, 45113),

Gene: BillyTP_77 Start: 43046, Stop: 43435, Start Num: 70

Candidate Starts for BillyTP_77:

(Start: 70 @43046 has 36 MA's), (102, 43169), (108, 43202), (110, 43217), (118, 43271),

Gene: BlackSpider_65 Start: 39612, Stop: 40001, Start Num: 70

Candidate Starts for BlackSpider_65:

(51, 39510), (Start: 70 @39612 has 36 MA's), (102, 39735), (108, 39768), (110, 39783), (114, 39804), (118, 39837),

Gene: Blarby_72 Start: 42116, Stop: 42481, Start Num: 69

Candidate Starts for Blarby_72:

(Start: 69 @42116 has 171 MA's), (79, 42149), (84, 42164), (86, 42167), (93, 42206), (94, 42209), (97, 42230), (103, 42263), (108, 42290), (113, 42323), (120, 42365), (121, 42371), (143, 42467),

Gene: Blett_57 Start: 34133, Stop: 34570, Start Num: 80

Candidate Starts for Blett_57:

(Start: 80 @34133 has 11 MA's), (99, 34229), (105, 34256), (111, 34304), (121, 34361), (122, 34367), (126, 34388), (139, 34454), (145, 34484), (151, 34508), (153, 34520),

Gene: Blexus_58 Start: 40670, Stop: 41035, Start Num: 69

Candidate Starts for Blexus_58:

(Start: 69 @40670 has 171 MA's), (79, 40703), (84, 40718), (86, 40721), (94, 40763), (97, 40784), (103, 40817), (108, 40844), (113, 40877), (120, 40919), (121, 40925), (143, 41021),

Gene: BlueCrab_60 Start: 40975, Stop: 41340, Start Num: 69

Candidate Starts for BlueCrab_60:

(Start: 69 @40975 has 171 MA's), (79, 41008), (84, 41023), (86, 41026), (94, 41068), (97, 41089), (107, 41143), (108, 41149), (113, 41182), (120, 41224), (121, 41230), (143, 41326),

Gene: BlueShadow_74 Start: 42358, Stop: 42759, Start Num: 70

Candidate Starts for BlueShadow_74:

(Start: 70 @42358 has 36 MA's), (108, 42526), (118, 42595),

Gene: BobaPhett_64 Start: 42932, Stop: 43297, Start Num: 69

Candidate Starts for BobaPhett_64:

(Start: 69 @42932 has 171 MA's), (79, 42965), (84, 42980), (86, 42983), (93, 43022), (94, 43025), (97, 43046), (103, 43079), (108, 43106), (113, 43139), (120, 43181), (121, 43187), (143, 43283),

Gene: BodEinwohner17_60 Start: 39737, Stop: 40102, Start Num: 69

Candidate Starts for BodEinwohner17_60:

(Start: 69 @39737 has 171 MA's), (79, 39770), (84, 39785), (86, 39788), (94, 39830), (97, 39851), (103, 39884), (107, 39905), (108, 39911), (113, 39944), (120, 39986), (121, 39992), (143, 40088),

Gene: Bolt007_53 Start: 38007, Stop: 38369, Start Num: 69

Candidate Starts for Bolt007_53:

(49, 37902), (50, 37905), (Start: 69 @38007 has 171 MA's), (127, 38295),

Gene: Boomer_65 Start: 42607, Stop: 42972, Start Num: 69

Candidate Starts for Boomer_65:

(Start: 69 @42607 has 171 MA's), (79, 42640), (84, 42655), (86, 42658), (93, 42697), (94, 42700), (97, 42721), (103, 42754), (108, 42781), (113, 42814), (120, 42856), (121, 42862), (143, 42958),

Gene: Brocalys_55 Start: 37114, Stop: 37479, Start Num: 69

Candidate Starts for Brocalys_55:

(Start: 69 @37114 has 171 MA's), (79, 37147), (84, 37162), (86, 37165), (93, 37204), (94, 37207), (97, 37228), (103, 37261), (108, 37288), (113, 37321), (120, 37363), (121, 37369), (143, 37465),

Gene: Brushbloom_62 Start: 41279, Stop: 41644, Start Num: 69

Candidate Starts for Brushbloom_62:

(Start: 69 @41279 has 171 MA's), (79, 41312), (81, 41318), (86, 41330), (98, 41402), (103, 41426), (104, 41429), (108, 41453), (120, 41528), (121, 41534), (137, 41609),

Gene: Bumble_49 Start: 35709, Stop: 36101, Start Num: 66

Candidate Starts for Bumble_49:

(Start: 66 @35709 has 5 MA's), (114, 35925), (127, 36012),

Gene: Burwell21_58 Start: 40215, Stop: 40580, Start Num: 69

Candidate Starts for Burwell21_58:

(Start: 69 @40215 has 171 MA's), (79, 40248), (84, 40263), (86, 40266), (93, 40305), (94, 40308), (97, 40329), (103, 40362), (108, 40389), (113, 40422), (120, 40464), (121, 40470), (143, 40566),

Gene: Bush_58 Start: 34082, Stop: 34519, Start Num: 80

Candidate Starts for Bush_58:

(Start: 80 @34082 has 11 MA's), (99, 34178), (105, 34205), (111, 34253), (121, 34310), (122, 34316), (126, 34337), (139, 34403), (145, 34433), (153, 34469),

Gene: BuzzLyseyear_66 Start: 41636, Stop: 42001, Start Num: 69

Candidate Starts for BuzzLyseyear_66:

(Start: 69 @41636 has 171 MA's), (79, 41669), (84, 41684), (86, 41687), (93, 41726), (94, 41729), (97, 41750), (103, 41783), (108, 41810), (113, 41843), (120, 41885), (121, 41891), (143, 41987),

Gene: ByChance_52 Start: 35903, Stop: 36268, Start Num: 69

Candidate Starts for ByChance_52:

(Start: 69 @35903 has 171 MA's), (79, 35936), (84, 35951), (86, 35954), (94, 35996), (97, 36017), (103, 36050), (107, 36071), (108, 36077), (113, 36110), (120, 36152), (121, 36158), (143, 36254),

Gene: Byougenkin_58 Start: 39979, Stop: 40344, Start Num: 69

Candidate Starts for Byougenkin_58:

(Start: 69 @39979 has 171 MA's), (79, 40012), (84, 40027), (86, 40030), (94, 40072), (97, 40093), (107, 40147), (108, 40153), (113, 40186), (120, 40228), (121, 40234), (143, 40330),

Gene: Cabrinians_61 Start: 40293, Stop: 40658, Start Num: 69

Candidate Starts for Cabrinians_61:

(Start: 69 @40293 has 171 MA's), (79, 40326), (84, 40341), (86, 40344), (93, 40383), (94, 40386), (97, 40407), (103, 40440), (108, 40467), (113, 40500), (120, 40542), (121, 40548), (143, 40644),

Gene: CalWood4100_57 Start: 38014, Stop: 38406, Start Num: 69

Candidate Starts for CalWood4100_57:

(Start: 69 @38014 has 171 MA's), (127, 38299), (134, 38335),

Gene: CaptainTrips_57 Start: 39789, Stop: 40154, Start Num: 69

Candidate Starts for CaptainTrips_57:

(Start: 69 @39789 has 171 MA's), (79, 39822), (84, 39837), (86, 39840), (93, 39879), (94, 39882), (97, 39903), (103, 39936), (108, 39963), (113, 39996), (120, 40038), (121, 40044), (143, 40140),

Gene: Carrillo_59 Start: 34056, Stop: 34493, Start Num: 80

Candidate Starts for Carrillo_59:

(6, 33321), (7, 33420), (15, 33549), (17, 33579), (Start: 80 @34056 has 11 MA's), (99, 34152), (105, 34179), (111, 34227), (121, 34284), (122, 34290), (126, 34311), (139, 34377), (145, 34407), (153, 34443),

Gene: Cassia_45 Start: 33045, Stop: 33434, Start Num: 73

Candidate Starts for Cassia_45:

(30, 32820), (Start: 73 @33045 has 32 MA's), (90, 33099), (113, 33225), (122, 33279), (148, 33408), (152, 33426),

Gene: Cassini_73 Start: 42039, Stop: 42428, Start Num: 70

Candidate Starts for Cassini_73:

(Start: 70 @42039 has 36 MA's), (102, 42162), (110, 42210), (118, 42264),

Gene: Cheesepuff_67 Start: 42252, Stop: 42617, Start Num: 69

Candidate Starts for Cheesepuff_67:

(Start: 69 @42252 has 171 MA's), (79, 42285), (84, 42300), (86, 42303), (93, 42342), (94, 42345), (97, 42366), (108, 42426), (113, 42459), (120, 42501), (121, 42507), (143, 42603),

Gene: Chuckly_63 Start: 40935, Stop: 41300, Start Num: 69

Candidate Starts for Chuckly_63:

(Start: 69 @40935 has 171 MA's), (79, 40968), (84, 40983), (86, 40986), (93, 41025), (94, 41028), (97, 41049), (103, 41082), (108, 41109), (113, 41142), (120, 41184), (121, 41190), (143, 41286),

Gene: Circuit_48 Start: 36342, Stop: 36734, Start Num: 66
Candidate Starts for Circuit_48:
(Start: 66 @36342 has 5 MA's), (108, 36522), (115, 36570), (127, 36645),

Gene: Clifton_55 Start: 37465, Stop: 37830, Start Num: 69
Candidate Starts for Clifton_55:
(Start: 69 @37465 has 171 MA's), (79, 37498), (84, 37513), (86, 37516), (93, 37555), (94, 37558), (97, 37579), (103, 37612), (108, 37639), (113, 37672), (120, 37714), (121, 37720), (143, 37816),

Gene: Community_48 Start: 35107, Stop: 35478, Start Num: 73
Candidate Starts for Community_48:
(Start: 73 @35107 has 32 MA's), (97, 35209), (113, 35287), (122, 35341),

Gene: CookieBear_75 Start: 41689, Stop: 42090, Start Num: 70
Candidate Starts for CookieBear_75:
(Start: 70 @41689 has 36 MA's), (108, 41857), (118, 41926),

Gene: CookieDog_57 Start: 34056, Stop: 34493, Start Num: 80
Candidate Starts for CookieDog_57:
(Start: 80 @34056 has 11 MA's), (99, 34152), (105, 34179), (111, 34227), (121, 34284), (122, 34290), (126, 34311), (139, 34377), (145, 34407), (153, 34443),

Gene: Corium_57 Start: 39332, Stop: 39697, Start Num: 69
Candidate Starts for Corium_57:
(Start: 69 @39332 has 171 MA's), (79, 39365), (84, 39380), (86, 39383), (93, 39422), (94, 39425), (97, 39446), (103, 39479), (108, 39506), (113, 39539), (120, 39581), (121, 39587), (143, 39683),

Gene: Cornie_56 Start: 38714, Stop: 39079, Start Num: 69
Candidate Starts for Cornie_56:
(Start: 69 @38714 has 171 MA's), (79, 38747), (84, 38762), (86, 38765), (93, 38804), (94, 38807), (97, 38828), (108, 38888), (113, 38921), (120, 38963), (121, 38969), (143, 39065),

Gene: Cornucopia_62 Start: 40943, Stop: 41308, Start Num: 69
Candidate Starts for Cornucopia_62:
(Start: 69 @40943 has 171 MA's), (79, 40976), (84, 40991), (86, 40994), (93, 41033), (94, 41036), (97, 41057), (107, 41111), (108, 41117), (113, 41150), (120, 41192), (121, 41198), (143, 41294),

Gene: Crescenzo_81 Start: 44484, Stop: 44873, Start Num: 70
Candidate Starts for Crescenzo_81:
(1, 42915), (2, 43050), (3, 43161), (4, 43197), (5, 43260), (11, 43938), (24, 44154), (Start: 70 @44484 has 36 MA's), (102, 44607), (108, 44640), (110, 44655), (118, 44709), (134, 44799),

Gene: Crewmate_51 Start: 33740, Stop: 34135, Start Num: 73
Candidate Starts for Crewmate_51:
(Start: 73 @33740 has 32 MA's), (90, 33794), (113, 33920),

Gene: Crumble_55 Start: 36229, Stop: 36594, Start Num: 69
Candidate Starts for Crumble_55:
(Start: 69 @36229 has 171 MA's), (79, 36262), (84, 36277), (86, 36280), (93, 36319), (94, 36322), (97, 36343), (103, 36376), (108, 36403), (113, 36436), (120, 36478), (121, 36484), (143, 36580),

Gene: Cyan_46 Start: 33389, Stop: 33802, Start Num: 73
Candidate Starts for Cyan_46:

(Start: 73 @33389 has 32 MA's), (90, 33443), (113, 33569), (122, 33623), (154, 33776), (155, 33794),

Gene: Cygnet_32 Start: 22555, Stop: 22169, Start Num: 66

Candidate Starts for Cygnet_32:

(Start: 66 @22555 has 5 MA's), (130, 22207),

Gene: DRBy19_63 Start: 41390, Stop: 41755, Start Num: 69

Candidate Starts for DRBy19_63:

(Start: 69 @41390 has 171 MA's), (79, 41423), (84, 41438), (86, 41441), (93, 41480), (94, 41483), (97, 41504), (103, 41537), (107, 41558), (108, 41564), (113, 41597), (120, 41639), (121, 41645), (143, 41741),

Gene: DaWorst_61 Start: 40694, Stop: 41059, Start Num: 69

Candidate Starts for DaWorst_61:

(Start: 69 @40694 has 171 MA's), (79, 40727), (84, 40742), (86, 40745), (93, 40784), (94, 40787), (97, 40808), (103, 40841), (108, 40868), (113, 40901), (120, 40943), (121, 40949), (143, 41045),

Gene: DaddyRickover_59 Start: 40432, Stop: 40797, Start Num: 69

Candidate Starts for DaddyRickover_59:

(Start: 69 @40432 has 171 MA's), (79, 40465), (84, 40480), (86, 40483), (94, 40525), (97, 40546), (103, 40579), (107, 40600), (108, 40606), (113, 40639), (120, 40681), (121, 40687), (143, 40783),

Gene: Daenerys_54 Start: 38542, Stop: 38907, Start Num: 69

Candidate Starts for Daenerys_54:

(Start: 69 @38542 has 171 MA's), (79, 38575), (84, 38590), (86, 38593), (94, 38635), (97, 38656), (103, 38689), (107, 38710), (108, 38716), (113, 38749), (120, 38791), (121, 38797), (143, 38893),

Gene: Dante_61 Start: 40217, Stop: 40582, Start Num: 69

Candidate Starts for Dante_61:

(Start: 69 @40217 has 171 MA's), (79, 40250), (84, 40265), (86, 40268), (93, 40307), (94, 40310), (97, 40331), (103, 40364), (108, 40391), (113, 40424), (120, 40466), (121, 40472), (143, 40568),

Gene: DarwinJr_81 Start: 44439, Stop: 44828, Start Num: 70

Candidate Starts for DarwinJr_81:

(1, 42870), (2, 43005), (3, 43116), (4, 43152), (5, 43215), (11, 43893), (24, 44109), (Start: 70 @44439 has 36 MA's), (102, 44562), (108, 44595), (110, 44610), (118, 44664), (134, 44754),

Gene: DeadP_66 Start: 42861, Stop: 43226, Start Num: 69

Candidate Starts for DeadP_66:

(Start: 69 @42861 has 171 MA's), (79, 42894), (84, 42909), (86, 42912), (93, 42951), (94, 42954), (97, 42975), (103, 43008), (108, 43035), (113, 43068), (120, 43110), (121, 43116), (143, 43212),

Gene: Demsculpinboyz_71 Start: 40214, Stop: 40579, Start Num: 69

Candidate Starts for Demsculpinboyz_71:

(Start: 69 @40214 has 171 MA's), (79, 40247), (84, 40262), (86, 40265), (93, 40304), (94, 40307), (97, 40328), (108, 40388), (113, 40421), (120, 40463), (121, 40469), (133, 40538), (143, 40565),

Gene: DillTech15_57 Start: 38876, Stop: 39241, Start Num: 69

Candidate Starts for DillTech15_57:

(Start: 69 @38876 has 171 MA's), (79, 38909), (84, 38924), (86, 38927), (93, 38966), (94, 38969), (97, 38990), (108, 39050), (113, 39083), (120, 39125), (121, 39131), (133, 39200), (143, 39227),

Gene: Ding_76 Start: 42235, Stop: 42624, Start Num: 70

Candidate Starts for Ding_76:

(24, 41905), (25, 41920), (Start: 70 @42235 has 36 MA's), (87, 42268), (102, 42358), (108, 42391), (113, 42424), (114, 42427), (117, 42454), (118, 42460), (141, 42571),

Gene: DirtMcgirt_59 Start: 38957, Stop: 39322, Start Num: 69

Candidate Starts for DirtMcgirt_59:

(Start: 69 @38957 has 171 MA's), (79, 38990), (84, 39005), (86, 39008), (93, 39047), (94, 39050), (97, 39071), (103, 39104), (107, 39125), (108, 39131), (113, 39164), (120, 39206), (121, 39212), (143, 39308),

Gene: Doomphist_60 Start: 41387, Stop: 41752, Start Num: 69

Candidate Starts for Doomphist_60:

(Start: 69 @41387 has 171 MA's), (79, 41420), (84, 41435), (86, 41438), (94, 41480), (97, 41501), (103, 41534), (107, 41555), (108, 41561), (113, 41594), (120, 41636), (121, 41642), (143, 41738),

Gene: Dorothy_58 Start: 39606, Stop: 39971, Start Num: 69

Candidate Starts for Dorothy_58:

(Start: 69 @39606 has 171 MA's), (79, 39639), (84, 39654), (86, 39657), (93, 39696), (94, 39699), (97, 39720), (103, 39753), (108, 39780), (113, 39813), (120, 39855), (121, 39861), (143, 39957),

Gene: DosHalletts_62 Start: 41742, Stop: 42107, Start Num: 69

Candidate Starts for DosHalletts_62:

(Start: 69 @41742 has 171 MA's), (79, 41775), (84, 41790), (86, 41793), (94, 41835), (97, 41856), (103, 41889), (107, 41910), (108, 41916), (113, 41949), (120, 41991), (121, 41997), (143, 42093),

Gene: Doug_62 Start: 40960, Stop: 41325, Start Num: 69

Candidate Starts for Doug_62:

(Start: 69 @40960 has 171 MA's), (79, 40993), (86, 41011), (93, 41050), (94, 41053), (97, 41074), (103, 41107), (108, 41134), (113, 41167), (120, 41209), (121, 41215), (143, 41311),

Gene: DrSierra_43 Start: 31383, Stop: 31799, Start Num: 73

Candidate Starts for DrSierra_43:

(Start: 73 @31383 has 32 MA's), (113, 31566), (122, 31620), (154, 31773), (155, 31791),

Gene: Drago_58 Start: 38960, Stop: 39325, Start Num: 69

Candidate Starts for Drago_58:

(Start: 69 @38960 has 171 MA's), (79, 38993), (84, 39008), (86, 39011), (93, 39050), (94, 39053), (97, 39074), (103, 39107), (107, 39128), (108, 39134), (113, 39167), (120, 39209), (121, 39215), (143, 39311),

Gene: Dropshot_57 Start: 33783, Stop: 34220, Start Num: 80

Candidate Starts for Dropshot_57:

(Start: 80 @33783 has 11 MA's), (99, 33879), (105, 33906), (111, 33954), (121, 34011), (122, 34017), (126, 34038), (139, 34104), (145, 34134), (151, 34158), (153, 34170),

Gene: Eish_64 Start: 41209, Stop: 41574, Start Num: 69

Candidate Starts for Eish_64:

(Start: 69 @41209 has 171 MA's), (79, 41242), (84, 41257), (86, 41260), (93, 41299), (94, 41302), (97, 41323), (103, 41356), (108, 41383), (113, 41416), (120, 41458), (121, 41464), (143, 41560),

Gene: EleanorGeorge_61 Start: 41073, Stop: 41438, Start Num: 69

Candidate Starts for EleanorGeorge_61:

(Start: 69 @41073 has 171 MA's), (79, 41106), (84, 41121), (86, 41124), (94, 41166), (97, 41187), (103, 41220), (108, 41247), (113, 41280), (120, 41322), (121, 41328), (143, 41424),

Gene: EmiMonkey_58 Start: 41923, Stop: 42288, Start Num: 69

Candidate Starts for EmiMonkey_58:

(Start: 69 @41923 has 171 MA's), (79, 41956), (84, 41971), (86, 41974), (93, 42013), (94, 42016), (97, 42037), (103, 42070), (108, 42097), (113, 42130), (120, 42172), (121, 42178), (143, 42274),

Gene: Emmaloid_61 Start: 41019, Stop: 41384, Start Num: 69

Candidate Starts for Emmaloid_61:

(Start: 69 @41019 has 171 MA's), (79, 41052), (84, 41067), (86, 41070), (93, 41109), (94, 41112), (97, 41133), (103, 41166), (108, 41193), (113, 41226), (120, 41268), (121, 41274), (143, 41370),

Gene: Empress_58 Start: 39956, Stop: 40321, Start Num: 69

Candidate Starts for Empress_58:

(Start: 69 @39956 has 171 MA's), (79, 39989), (84, 40004), (86, 40007), (94, 40049), (97, 40070), (103, 40103), (107, 40124), (108, 40130), (113, 40163), (120, 40205), (121, 40211), (143, 40307),

Gene: Enby_61 Start: 39236, Stop: 39601, Start Num: 69

Candidate Starts for Enby_61:

(Start: 69 @39236 has 171 MA's), (79, 39269), (84, 39284), (86, 39287), (93, 39326), (94, 39329), (97, 39350), (103, 39383), (108, 39410), (113, 39443), (120, 39485), (121, 39491), (143, 39587),

Gene: Eradicator_53 Start: 38486, Stop: 38851, Start Num: 69

Candidate Starts for Eradicator_53:

(Start: 69 @38486 has 171 MA's), (79, 38519), (84, 38534), (86, 38537), (93, 38576), (94, 38579), (97, 38600), (103, 38633), (108, 38660), (113, 38693), (120, 38735), (121, 38741), (143, 38837),

Gene: Estave1_63 Start: 41407, Stop: 41772, Start Num: 69

Candidate Starts for Estave1_63:

(Start: 69 @41407 has 171 MA's), (79, 41440), (84, 41455), (86, 41458), (93, 41497), (94, 41500), (97, 41521), (103, 41554), (107, 41575), (108, 41581), (113, 41614), (120, 41656), (121, 41662), (143, 41758),

Gene: EvePickles_75 Start: 42959, Stop: 43348, Start Num: 70

Candidate Starts for EvePickles_75:

(Start: 70 @42959 has 36 MA's), (102, 43082), (108, 43115), (110, 43130), (118, 43184),

Gene: Faja_79 Start: 43731, Stop: 44132, Start Num: 70

Candidate Starts for Faja_79:

(Start: 70 @43731 has 36 MA's), (108, 43899), (118, 43968),

Gene: Fancypants_62 Start: 40927, Stop: 41292, Start Num: 69

Candidate Starts for Fancypants_62:

(Start: 69 @40927 has 171 MA's), (79, 40960), (84, 40975), (86, 40978), (94, 41020), (97, 41041), (107, 41095), (108, 41101), (113, 41134), (120, 41176), (121, 41182), (143, 41278),

Gene: Fastidio_60 Start: 39023, Stop: 39388, Start Num: 69

Candidate Starts for Fastidio_60:

(Start: 69 @39023 has 171 MA's), (79, 39056), (84, 39071), (86, 39074), (93, 39113), (94, 39116), (97, 39137), (108, 39197), (113, 39230), (120, 39272), (121, 39278), (133, 39347), (143, 39374),

Gene: Firehouse51_61 Start: 43811, Stop: 44176, Start Num: 69

Candidate Starts for Firehouse51_61:

(Start: 69 @43811 has 171 MA's), (79, 43844), (84, 43859), (86, 43862), (93, 43901), (94, 43904), (97, 43925), (103, 43958), (108, 43985), (113, 44018), (120, 44060), (121, 44066), (143, 44162),

Gene: Flutur_45 Start: 33645, Stop: 34058, Start Num: 73

Candidate Starts for Flutur_45:

(22, 33315), (Start: 73 @33645 has 32 MA's), (90, 33699), (113, 33825), (122, 33879), (154, 34032), (155, 34050),

Gene: FreddyB_61 Start: 39138, Stop: 39503, Start Num: 69

Candidate Starts for FreddyB_61:

(Start: 69 @39138 has 171 MA's), (79, 39171), (84, 39186), (86, 39189), (93, 39228), (94, 39231), (97, 39252), (103, 39285), (108, 39312), (113, 39345), (120, 39387), (121, 39393), (143, 39489),

Gene: GUmbie_58 Start: 39713, Stop: 40078, Start Num: 69

Candidate Starts for GUmbie_58:

(Start: 69 @39713 has 171 MA's), (79, 39746), (84, 39761), (86, 39764), (93, 39803), (94, 39806), (97, 39827), (103, 39860), (108, 39887), (113, 39920), (120, 39962), (121, 39968), (143, 40064),

Gene: Galactic_59 Start: 40176, Stop: 40541, Start Num: 69

Candidate Starts for Galactic_59:

(Start: 69 @40176 has 171 MA's), (79, 40209), (84, 40224), (86, 40227), (93, 40266), (94, 40269), (97, 40290), (108, 40350), (113, 40383), (120, 40425), (121, 40431), (143, 40527),

Gene: Gandolph_63 Start: 40535, Stop: 40900, Start Num: 69

Candidate Starts for Gandolph_63:

(Start: 69 @40535 has 171 MA's), (79, 40568), (84, 40583), (86, 40586), (94, 40628), (97, 40649), (103, 40682), (108, 40709), (113, 40742), (120, 40784), (121, 40790), (143, 40886),

Gene: GigiOuiOui_56 Start: 39153, Stop: 39518, Start Num: 69

Candidate Starts for GigiOuiOui_56:

(Start: 69 @39153 has 171 MA's), (79, 39186), (84, 39201), (86, 39204), (93, 39243), (94, 39246), (97, 39267), (108, 39327), (113, 39360), (120, 39402), (121, 39408), (143, 39504),

Gene: Girr_58 Start: 40017, Stop: 40382, Start Num: 69

Candidate Starts for Girr_58:

(Start: 69 @40017 has 171 MA's), (79, 40050), (84, 40065), (86, 40068), (93, 40107), (94, 40110), (97, 40131), (108, 40191), (113, 40224), (120, 40266), (121, 40272), (143, 40368),

Gene: Globfish_76 Start: 41426, Stop: 41815, Start Num: 70

Candidate Starts for Globfish_76:

(Start: 70 @41426 has 36 MA's), (102, 41549), (108, 41582), (110, 41597), (118, 41651),

Gene: Gorge_64 Start: 41655, Stop: 42020, Start Num: 69

Candidate Starts for Gorge_64:

(Start: 69 @41655 has 171 MA's), (79, 41688), (84, 41703), (86, 41706), (93, 41745), (94, 41748), (97, 41769), (103, 41802), (108, 41829), (113, 41862), (120, 41904), (121, 41910), (143, 42006),

Gene: Gorpy_74 Start: 42930, Stop: 43331, Start Num: 70

Candidate Starts for Gorpy_74:

(29, 42684), (Start: 70 @42930 has 36 MA's), (108, 43098), (118, 43167),

Gene: Grimmer_70 Start: 41812, Stop: 42177, Start Num: 69

Candidate Starts for Grimmer_70:

(Start: 69 @41812 has 171 MA's), (79, 41845), (84, 41860), (86, 41863), (93, 41902), (94, 41905), (97, 41926), (108, 41986), (113, 42019), (120, 42061), (121, 42067), (143, 42163),

Gene: GumGum_81 Start: 42873, Stop: 43274, Start Num: 70

Candidate Starts for GumGum_81:

(Start: 70 @42873 has 36 MA's), (108, 43041), (118, 43110),

Gene: Guzman_57 Start: 34003, Stop: 34440, Start Num: 80

Candidate Starts for Guzman_57:

(10, 33403), (Start: 80 @34003 has 11 MA's), (99, 34099), (105, 34126), (111, 34174), (121, 34231), (122, 34237), (126, 34258), (139, 34324), (145, 34354), (151, 34378), (153, 34390),

Gene: Hades_61 Start: 41111, Stop: 41476, Start Num: 69

Candidate Starts for Hades_61:

(Start: 69 @41111 has 171 MA's), (79, 41144), (84, 41159), (86, 41162), (93, 41201), (94, 41204), (97, 41225), (103, 41258), (108, 41285), (113, 41318), (120, 41360), (121, 41366), (133, 41435), (143, 41462),

Gene: Hashim76_90 Start: 66062, Stop: 65649, Start Num: 63

Candidate Starts for Hashim76_90:

(Start: 63 @66062 has 2 MA's), (83, 65981), (100, 65894), (108, 65852), (113, 65819), (126, 65744),

Gene: Hawkeye_86 Start: 58033, Stop: 58440, Start Num: 72

Candidate Starts for Hawkeye_86:

(55, 57952), (58, 57976), (60, 57982), (Start: 70 @58030 has 36 MA's), (Start: 72 @58033 has 2 MA's), (90, 58096), (117, 58261), (123, 58288), (124, 58294), (132, 58363), (145, 58411),

Gene: Hegedechwinu_60 Start: 39325, Stop: 39690, Start Num: 69

Candidate Starts for Hegedechwinu_60:

(Start: 69 @39325 has 171 MA's), (79, 39358), (84, 39373), (86, 39376), (93, 39415), (94, 39418), (97, 39439), (103, 39472), (108, 39499), (113, 39532), (120, 39574), (121, 39580), (143, 39676),

Gene: Hestia_70 Start: 39954, Stop: 40355, Start Num: 70

Candidate Starts for Hestia_70:

(Start: 70 @39954 has 36 MA's), (108, 40122), (118, 40191),

Gene: Hillester_80 Start: 42975, Stop: 43364, Start Num: 70

Candidate Starts for Hillester_80:

(1, 41406), (2, 41541), (3, 41652), (4, 41688), (5, 41751), (11, 42429), (24, 42645), (Start: 70 @42975 has 36 MA's), (102, 43098), (108, 43131), (110, 43146), (118, 43200), (134, 43290),

Gene: Hlubikazi_56 Start: 38331, Stop: 38696, Start Num: 69

Candidate Starts for Hlubikazi_56:

(Start: 69 @38331 has 171 MA's), (79, 38364), (84, 38379), (86, 38382), (94, 38424), (97, 38445), (103, 38478), (107, 38499), (108, 38505), (120, 38580), (121, 38586), (143, 38682),

Gene: Hortus1_71 Start: 44930, Stop: 44580, Start Num: 75

Candidate Starts for Hortus1_71:

(45, 45071), (57, 44987), (Start: 75 @44930 has 6 MA's), (82, 44903), (86, 44894), (88, 44891), (97, 44828), (101, 44804), (129, 44627), (136, 44612), (142, 44591),

Gene: IUFootball_46 Start: 34755, Stop: 35162, Start Num: 73

Candidate Starts for IUFootball_46:

(Start: 67 @34737 has 2 MA's), (Start: 73 @34755 has 32 MA's), (89, 34800), (95, 34845), (97, 34860),

Gene: IbOuu_61 Start: 40693, Stop: 41058, Start Num: 69

Candidate Starts for IbOuu_61:

(Start: 69 @40693 has 171 MA's), (79, 40726), (84, 40741), (86, 40744), (93, 40783), (94, 40786), (97, 40807), (103, 40840), (108, 40867), (113, 40900), (120, 40942), (121, 40948), (143, 41044),

Gene: Ibhubesi_60 Start: 40300, Stop: 40665, Start Num: 69

Candidate Starts for Ibhubesi_60:

(Start: 69 @40300 has 171 MA's), (79, 40333), (84, 40348), (86, 40351), (93, 40390), (94, 40393), (97, 40414), (108, 40474), (113, 40507), (120, 40549), (121, 40555), (133, 40624), (143, 40651),

Gene: Inventum_55 Start: 39804, Stop: 40169, Start Num: 69

Candidate Starts for Inventum_55:

(Start: 69 @39804 has 171 MA's), (79, 39837), (84, 39852), (86, 39855), (93, 39894), (94, 39897), (97, 39918), (103, 39951), (108, 39978), (113, 40011), (120, 40053), (121, 40059), (143, 40155),

Gene: IrishSherpFalk_61 Start: 41968, Stop: 42333, Start Num: 69

Candidate Starts for IrishSherpFalk_61:

(Start: 69 @41968 has 171 MA's), (79, 42001), (84, 42016), (86, 42019), (93, 42058), (94, 42061), (97, 42082), (108, 42142), (113, 42175), (120, 42217), (121, 42223), (143, 42319),

Gene: Isolde_74 Start: 41800, Stop: 42201, Start Num: 70

Candidate Starts for Isolde_74:

(48, 41689), (Start: 70 @41800 has 36 MA's), (108, 41968), (118, 42037),

Gene: Iter_45 Start: 33105, Stop: 33509, Start Num: 73

Candidate Starts for Iter_45:

(Start: 73 @33105 has 32 MA's), (95, 33192), (113, 33285), (122, 33339), (154, 33483), (155, 33501),

Gene: IttyBittyPiggy_46 Start: 32844, Stop: 33215, Start Num: 73

Candidate Starts for IttyBittyPiggy_46:

(Start: 73 @32844 has 32 MA's), (90, 32898), (113, 33024), (122, 33078),

Gene: Jabbawokkie_74 Start: 42036, Stop: 42401, Start Num: 69

Candidate Starts for Jabbawokkie_74:

(Start: 69 @42036 has 171 MA's), (79, 42069), (84, 42084), (86, 42087), (93, 42126), (94, 42129), (97, 42150), (103, 42183), (108, 42210), (113, 42243), (120, 42285), (121, 42291), (143, 42387),

Gene: Jakelyne_60 Start: 34149, Stop: 34586, Start Num: 80

Candidate Starts for Jakelyne_60:

(7, 33513), (Start: 80 @34149 has 11 MA's), (99, 34245), (105, 34272), (111, 34320), (121, 34377), (122, 34383), (126, 34404), (139, 34470), (145, 34500), (153, 34536),

Gene: James_64 Start: 41780, Stop: 42145, Start Num: 69

Candidate Starts for James_64:

(Start: 69 @41780 has 171 MA's), (79, 41813), (84, 41828), (86, 41831), (93, 41870), (94, 41873), (97, 41894), (103, 41927), (108, 41954), (113, 41987), (120, 42029), (121, 42035), (143, 42131),

Gene: Janeemi_48 Start: 35112, Stop: 35516, Start Num: 73

Candidate Starts for Janeemi_48:

(Start: 73 @35112 has 32 MA's), (113, 35292), (122, 35346), (154, 35490), (155, 35508),

Gene: Jarcob_60 Start: 40261, Stop: 40626, Start Num: 69

Candidate Starts for Jarcob_60:

(Start: 69 @40261 has 171 MA's), (79, 40294), (84, 40309), (86, 40312), (93, 40351), (94, 40354), (97, 40375), (103, 40408), (107, 40429), (108, 40435), (113, 40468), (120, 40510), (121, 40516), (143, 40612),

Gene: JellyBread_73 Start: 41945, Stop: 42346, Start Num: 70

Candidate Starts for JellyBread_73:

(Start: 70 @41945 has 36 MA's), (108, 42113), (118, 42182),

Gene: Jennelsea_57 Start: 38940, Stop: 39305, Start Num: 69

Candidate Starts for Jennelsea_57:

(Start: 69 @38940 has 171 MA's), (79, 38973), (84, 38988), (86, 38991), (93, 39030), (94, 39033), (97, 39054), (103, 39087), (107, 39108), (108, 39114), (113, 39147), (120, 39189), (121, 39195), (143, 39291),

Gene: Jinglebell_65 Start: 42815, Stop: 43180, Start Num: 69

Candidate Starts for Jinglebell_65:

(Start: 69 @42815 has 171 MA's), (79, 42848), (84, 42863), (86, 42866), (93, 42905), (94, 42908), (97, 42929), (103, 42962), (108, 42989), (113, 43022), (120, 43064), (121, 43070), (143, 43166),

Gene: Job42_62 Start: 42198, Stop: 42563, Start Num: 69

Candidate Starts for Job42_62:

(Start: 69 @42198 has 171 MA's), (79, 42231), (84, 42246), (86, 42249), (93, 42288), (94, 42291), (97, 42312), (103, 42345), (107, 42366), (108, 42372), (113, 42405), (120, 42447), (121, 42453), (143, 42549),

Gene: Joemato_46 Start: 33415, Stop: 33828, Start Num: 73

Candidate Starts for Joemato_46:

(22, 33085), (Start: 73 @33415 has 32 MA's), (90, 33469), (113, 33595), (122, 33649), (154, 33802), (155, 33820),

Gene: JoeyJr_55 Start: 38710, Stop: 39075, Start Num: 69

Candidate Starts for JoeyJr_55:

(Start: 69 @38710 has 171 MA's), (79, 38743), (84, 38758), (86, 38761), (94, 38803), (97, 38824), (103, 38857), (107, 38878), (108, 38884), (113, 38917), (120, 38959), (121, 38965), (143, 39061),

Gene: JohnDoe_46 Start: 33411, Stop: 33824, Start Num: 73

Candidate Starts for JohnDoe_46:

(22, 33081), (Start: 73 @33411 has 32 MA's), (90, 33465), (113, 33591), (122, 33645), (154, 33798), (155, 33816),

Gene: JuneStar_48 Start: 35661, Stop: 36011, Start Num: 73

Candidate Starts for JuneStar_48:

(Start: 73 @35661 has 32 MA's), (90, 35715), (113, 35841),

Gene: Juniper1_59 Start: 40443, Stop: 40808, Start Num: 69

Candidate Starts for Juniper1_59:

(23, 40104), (26, 40122), (33, 40221), (34, 40230), (52, 40347), (53, 40353), (54, 40356), (Start: 69 @40443 has 171 MA's), (79, 40476), (83, 40485), (86, 40494), (97, 40557), (98, 40566), (104, 40593), (106, 40605), (108, 40617), (121, 40698), (135, 40770), (137, 40773),

Gene: Kabloowy_76 Start: 42829, Stop: 43230, Start Num: 70

Candidate Starts for Kabloowy_76:

(Start: 70 @42829 has 36 MA's), (108, 42997), (118, 43066),

Gene: Karhdo_57 Start: 39806, Stop: 40171, Start Num: 69

Candidate Starts for Karhdo_57:

(Start: 69 @39806 has 171 MA's), (79, 39839), (84, 39854), (86, 39857), (93, 39896), (94, 39899), (97, 39920), (103, 39953), (108, 39980), (113, 40013), (120, 40055), (121, 40061), (143, 40157),

Gene: Kaylissa_47 Start: 33807, Stop: 34220, Start Num: 73

Candidate Starts for Kaylissa_47:

(Start: 73 @33807 has 32 MA's), (90, 33861), (113, 33987), (122, 34041), (154, 34194), (155, 34212),

Gene: Kersh_62 Start: 42556, Stop: 42921, Start Num: 69

Candidate Starts for Kersh_62:

(Start: 69 @42556 has 171 MA's), (79, 42589), (84, 42604), (86, 42607), (93, 42646), (94, 42649), (97, 42670), (103, 42703), (107, 42724), (108, 42730), (113, 42763), (120, 42805), (121, 42811), (143, 42907),

Gene: Kimberlium_63 Start: 42089, Stop: 42454, Start Num: 69

Candidate Starts for Kimberlium_63:

(Start: 69 @42089 has 171 MA's), (79, 42122), (84, 42137), (86, 42140), (93, 42179), (94, 42182), (97, 42203), (103, 42236), (107, 42257), (108, 42263), (113, 42296), (120, 42338), (121, 42344), (143, 42440),

Gene: KingJulian_60 Start: 39332, Stop: 39697, Start Num: 69

Candidate Starts for KingJulian_60:

(Start: 69 @39332 has 171 MA's), (79, 39365), (84, 39380), (86, 39383), (93, 39422), (94, 39425), (97, 39446), (103, 39479), (108, 39506), (113, 39539), (120, 39581), (121, 39587), (143, 39683),

Gene: KingMidas_59 Start: 40372, Stop: 40737, Start Num: 69

Candidate Starts for KingMidas_59:

(Start: 69 @40372 has 171 MA's), (79, 40405), (84, 40420), (86, 40423), (94, 40465), (97, 40486), (103, 40519), (107, 40540), (108, 40546), (113, 40579), (120, 40621), (121, 40627), (143, 40723),

Gene: Klevey_55 Start: 37550, Stop: 37951, Start Num: 69

Candidate Starts for Klevey_55:

(Start: 69 @37550 has 171 MA's),

Gene: Koella_54 Start: 36191, Stop: 36556, Start Num: 69

Candidate Starts for Koella_54:

(Start: 69 @36191 has 171 MA's), (79, 36224), (84, 36239), (86, 36242), (93, 36281), (94, 36284), (97, 36305), (103, 36338), (108, 36365), (113, 36398), (120, 36440), (121, 36446), (143, 36542),

Gene: KristaRAM_63 Start: 42760, Stop: 43125, Start Num: 69

Candidate Starts for KristaRAM_63:

(Start: 69 @42760 has 171 MA's), (79, 42793), (84, 42808), (86, 42811), (94, 42853), (97, 42874), (103, 42907), (108, 42934), (113, 42967), (120, 43009), (121, 43015), (143, 43111),

Gene: Lasker_78 Start: 43324, Stop: 43713, Start Num: 70

Candidate Starts for Lasker_78:

(1, 41755), (2, 41890), (3, 42001), (4, 42037), (5, 42100), (11, 42778), (24, 42994), (Start: 70 @43324 has 36 MA's), (102, 43447), (108, 43480), (110, 43495), (118, 43549), (134, 43639),

Gene: LastJedi_54 Start: 37508, Stop: 37873, Start Num: 69

Candidate Starts for LastJedi_54:

(Start: 69 @37508 has 171 MA's), (79, 37541), (84, 37556), (86, 37559), (93, 37598), (94, 37601), (97, 37622), (103, 37655), (108, 37682), (113, 37715), (120, 37757), (121, 37763), (143, 37859),

Gene: Latretium_62 Start: 40834, Stop: 41199, Start Num: 69

Candidate Starts for Latretium_62:

(Start: 69 @40834 has 171 MA's), (79, 40867), (84, 40882), (86, 40885), (93, 40924), (94, 40927), (97, 40948), (108, 41008), (113, 41041), (120, 41083), (121, 41089), (143, 41185),

Gene: Lawnathon_78 Start: 42050, Stop: 42439, Start Num: 70

Candidate Starts for Lawnathon_78:

(Start: 70 @42050 has 36 MA's), (102, 42173), (108, 42206), (110, 42221), (118, 42275),

Gene: LeBruni_79 Start: 41868, Stop: 42263, Start Num: 70

Candidate Starts for LeBruni_79:

(Start: 70 @41868 has 36 MA's), (85, 41913), (102, 42006), (108, 42039), (122, 42126), (124, 42135), (144, 42237),

Gene: Lego_45 Start: 33126, Stop: 33539, Start Num: 73

Candidate Starts for Lego_45:

(Start: 73 @33126 has 32 MA's), (90, 33180), (113, 33306), (122, 33360), (154, 33513), (155, 33531),

Gene: Leozinho_59 Start: 39590, Stop: 39955, Start Num: 69

Candidate Starts for Leozinho_59:

(Start: 69 @39590 has 171 MA's), (79, 39623), (84, 39638), (86, 39641), (94, 39683), (97, 39704), (103, 39737), (107, 39758), (108, 39764), (113, 39797), (120, 39839), (121, 39845), (143, 39941),

Gene: Leperchaun_52 Start: 37940, Stop: 38305, Start Num: 69

Candidate Starts for Leperchaun_52:

(Start: 69 @37940 has 171 MA's), (79, 37973), (84, 37988), (86, 37991), (94, 38033), (97, 38054), (103, 38087), (107, 38108), (108, 38114), (113, 38147), (120, 38189), (121, 38195), (143, 38291),

Gene: Liebe_46 Start: 34755, Stop: 35162, Start Num: 73

Candidate Starts for Liebe_46:

(Start: 67 @34737 has 2 MA's), (Start: 73 @34755 has 32 MA's), (89, 34800), (95, 34845), (97, 34860),

Gene: LilMoolah_58 Start: 39703, Stop: 40068, Start Num: 69

Candidate Starts for LilMoolah_58:

(Start: 69 @39703 has 171 MA's), (79, 39736), (84, 39751), (86, 39754), (93, 39793), (94, 39796), (97, 39817), (103, 39850), (107, 39871), (108, 39877), (113, 39910), (120, 39952), (121, 39958), (143, 40054),

Gene: Lilmac1015_57 Start: 38014, Stop: 38406, Start Num: 69

Candidate Starts for Lilmac1015_57:

(Start: 69 @38014 has 171 MA's), (127, 38299), (134, 38335),

Gene: LittleMinkey_96 Start: 66537, Stop: 66124, Start Num: 63

Candidate Starts for LittleMinkey_96:

(Start: 63 @66537 has 2 MA's), (83, 66456), (100, 66369), (108, 66327), (113, 66294), (126, 66219),

Gene: LittleShirley_59 Start: 40750, Stop: 41115, Start Num: 69

Candidate Starts for LittleShirley_59:

(Start: 69 @40750 has 171 MA's), (79, 40783), (84, 40798), (86, 40801), (93, 40840), (94, 40843), (97, 40864), (103, 40897), (108, 40924), (113, 40957), (120, 40999), (121, 41005), (143, 41101),

Gene: LittleTokyo_33 Start: 21980, Stop: 21597, Start Num: 74

Candidate Starts for LittleTokyo_33:

(Start: 74 @21980 has 1 MA's), (116, 21776),

Gene: Lizalica_44 Start: 32567, Stop: 32941, Start Num: 73

Candidate Starts for Lizalica_44:

(Start: 73 @32567 has 32 MA's), (97, 32672), (113, 32750), (122, 32804),

Gene: Lizziana_66 Start: 41261, Stop: 41626, Start Num: 69

Candidate Starts for Lizziana_66:

(Start: 69 @41261 has 171 MA's), (79, 41294), (84, 41309), (86, 41312), (93, 41351), (94, 41354), (97, 41375), (103, 41408), (108, 41435), (113, 41468), (120, 41510), (121, 41516), (143, 41612),

Gene: Llama_65 Start: 42669, Stop: 43034, Start Num: 69

Candidate Starts for Llama_65:

(Start: 69 @42669 has 171 MA's), (79, 42702), (84, 42717), (86, 42720), (93, 42759), (94, 42762), (97, 42783), (103, 42816), (108, 42843), (113, 42876), (120, 42918), (121, 42924), (143, 43020),

Gene: Llij_56 Start: 39114, Stop: 39479, Start Num: 69

Candidate Starts for Llij_56:

(Start: 69 @39114 has 171 MA's), (79, 39147), (84, 39162), (86, 39165), (93, 39204), (94, 39207), (97, 39228), (103, 39261), (107, 39282), (108, 39288), (113, 39321), (120, 39363), (121, 39369), (143, 39465),

Gene: Lorde_60 Start: 38401, Stop: 38766, Start Num: 69

Candidate Starts for Lorde_60:

(Start: 69 @38401 has 171 MA's), (79, 38434), (84, 38449), (86, 38452), (93, 38491), (94, 38494), (97, 38515), (103, 38548), (107, 38569), (108, 38575), (113, 38608), (120, 38650), (121, 38656), (143, 38752),

Gene: Losacky_59 Start: 34314, Stop: 34751, Start Num: 80

Candidate Starts for Losacky_59:

(15, 33807), (17, 33837), (Start: 80 @34314 has 11 MA's), (99, 34410), (105, 34437), (111, 34485), (121, 34542), (122, 34548), (126, 34569), (139, 34635), (145, 34665), (153, 34701),

Gene: Lucia_60 Start: 39255, Stop: 39620, Start Num: 69

Candidate Starts for Lucia_60:

(Start: 69 @39255 has 171 MA's), (79, 39288), (84, 39303), (86, 39306), (93, 39345), (94, 39348), (97, 39369), (108, 39429), (113, 39462), (120, 39504), (121, 39510), (137, 39585),

Gene: LunaBlu_62 Start: 40835, Stop: 41200, Start Num: 69

Candidate Starts for LunaBlu_62:

(Start: 69 @40835 has 171 MA's), (79, 40868), (84, 40883), (86, 40886), (93, 40925), (94, 40928), (97, 40949), (108, 41009), (113, 41042), (120, 41084), (121, 41090), (143, 41186),

Gene: LunaStella_59 Start: 39682, Stop: 40047, Start Num: 69

Candidate Starts for LunaStella_59:

(Start: 69 @39682 has 171 MA's), (79, 39715), (86, 39733), (93, 39772), (94, 39775), (97, 39796), (98, 39805), (103, 39829), (108, 39856), (113, 39889), (120, 39931), (121, 39937), (143, 40033),

Gene: MUWow_78 Start: 43655, Stop: 44044, Start Num: 70

Candidate Starts for MUWow_78:

(29, 43409), (Start: 70 @43655 has 36 MA's), (102, 43778), (108, 43811), (110, 43826), (118, 43880),

Gene: MaGuCo_43 Start: 33237, Stop: 33617, Start Num: 73

Candidate Starts for MaGuCo_43:

(56, 33171), (62, 33189), (Start: 73 @33237 has 32 MA's), (77, 33249), (89, 33282), (95, 33327), (97, 33342), (109, 33396),

Gene: MadMen_58 Start: 40038, Stop: 40403, Start Num: 69

Candidate Starts for MadMen_58:

(Start: 69 @40038 has 171 MA's), (79, 40071), (84, 40086), (86, 40089), (94, 40131), (97, 40152), (103, 40185), (108, 40212), (113, 40245), (120, 40287), (121, 40293), (143, 40389),

Gene: Madiba_58 Start: 39287, Stop: 39652, Start Num: 69

Candidate Starts for Madiba_58:

(Start: 69 @39287 has 171 MA's), (79, 39320), (84, 39335), (86, 39338), (94, 39380), (97, 39401), (103, 39434), (108, 39461), (113, 39494), (120, 39536), (121, 39542), (143, 39638),

Gene: Mahavrat_58 Start: 39663, Stop: 40028, Start Num: 69

Candidate Starts for Mahavrat_58:

(Start: 69 @39663 has 171 MA's), (79, 39696), (84, 39711), (86, 39714), (93, 39753), (94, 39756), (97, 39777), (108, 39837), (113, 39870), (120, 39912), (121, 39918), (143, 40014),

Gene: MalagasyRose_65 Start: 42032, Stop: 42385, Start Num: 76

Candidate Starts for MalagasyRose_65:

(46, 41891), (61, 41975), (Start: 76 @42032 has 1 MA's), (92, 42101), (94, 42113), (97, 42134), (111, 42209), (117, 42248), (120, 42260), (124, 42281), (128, 42323), (134, 42344),

Gene: Mandlovu_56 Start: 38273, Stop: 38638, Start Num: 69

Candidate Starts for Mandlovu_56:

(Start: 69 @38273 has 171 MA's), (79, 38306), (84, 38321), (86, 38324), (94, 38366), (97, 38387), (103, 38420), (107, 38441), (108, 38447), (120, 38522), (121, 38528), (143, 38624),

Gene: Mapleville_72 Start: 41369, Stop: 41770, Start Num: 70

Candidate Starts for Mapleville_72:

(Start: 70 @41369 has 36 MA's), (108, 41537), (118, 41606),

Gene: Maravista_61 Start: 41710, Stop: 42075, Start Num: 69

Candidate Starts for Maravista_61:

(Start: 69 @41710 has 171 MA's), (79, 41743), (84, 41758), (86, 41761), (93, 41800), (94, 41803), (97, 41824), (103, 41857), (108, 41884), (113, 41917), (120, 41959), (121, 41965), (143, 42061),

Gene: Mariel_60 Start: 34532, Stop: 34969, Start Num: 80

Candidate Starts for Mariel_60:

(71, 34499), (Start: 80 @34532 has 11 MA's), (99, 34628), (105, 34655), (111, 34703), (121, 34760), (122, 34766), (126, 34787), (139, 34853), (145, 34883), (153, 34919),

Gene: Marker_62 Start: 40381, Stop: 40746, Start Num: 69

Candidate Starts for Marker_62:

(Start: 69 @40381 has 171 MA's), (79, 40414), (84, 40429), (86, 40432), (94, 40474), (97, 40495), (108, 40555), (113, 40588), (120, 40630), (121, 40636), (143, 40732),

Gene: Martik_60 Start: 40214, Stop: 40579, Start Num: 69

Candidate Starts for Martik_60:

(Start: 69 @40214 has 171 MA's), (79, 40247), (84, 40262), (86, 40265), (93, 40304), (94, 40307), (97, 40328), (103, 40361), (108, 40388), (113, 40421), (120, 40463), (121, 40469), (143, 40565),

Gene: Maruru_65 Start: 44640, Stop: 45053, Start Num: 67

Candidate Starts for Maruru_65:

(41, 44490), (Start: 67 @44640 has 2 MA's), (92, 44730), (95, 44748), (115, 44871), (119, 44895),

Gene: MaterMagnus_76 Start: 42682, Stop: 43083, Start Num: 70

Candidate Starts for MaterMagnus_76:

(29, 42436), (Start: 70 @42682 has 36 MA's), (108, 42850), (118, 42919),

Gene: Mattes_64 Start: 41780, Stop: 42145, Start Num: 69

Candidate Starts for Mattes_64:

(Start: 69 @41780 has 171 MA's), (79, 41813), (84, 41828), (86, 41831), (93, 41870), (94, 41873), (97, 41894), (103, 41927), (108, 41954), (113, 41987), (120, 42029), (121, 42035), (143, 42131),

Gene: Maureen_46 Start: 34755, Stop: 35162, Start Num: 73

Candidate Starts for Maureen_46:

(Start: 67 @34737 has 2 MA's), (Start: 73 @34755 has 32 MA's), (89, 34800), (95, 34845), (97, 34860),

Gene: MenE_59 Start: 34205, Stop: 34642, Start Num: 80

Candidate Starts for MenE_59:

(10, 33605), (17, 33728), (Start: 80 @34205 has 11 MA's), (99, 34301), (105, 34328), (111, 34376), (121, 34433), (122, 34439), (126, 34460), (139, 34526), (145, 34556), (151, 34580), (153, 34592),

Gene: MidnightRain_81 Start: 43270, Stop: 43659, Start Num: 70

Candidate Starts for MidnightRain_81:

(Start: 70 @43270 has 36 MA's), (102, 43393), (108, 43426), (110, 43441), (118, 43495),

Gene: MilleniumForce_63 Start: 42482, Stop: 42847, Start Num: 69

Candidate Starts for MilleniumForce_63:

(Start: 69 @42482 has 171 MA's), (79, 42515), (81, 42521), (86, 42533), (98, 42605), (103, 42629), (104, 42632), (108, 42656), (120, 42731), (121, 42737), (137, 42812),

Gene: MinionDave_59 Start: 40561, Stop: 40926, Start Num: 69

Candidate Starts for MinionDave_59:

(Start: 69 @40561 has 171 MA's), (79, 40594), (84, 40609), (86, 40612), (93, 40651), (94, 40654), (97, 40675), (103, 40708), (108, 40735), (113, 40768), (120, 40810), (121, 40816), (143, 40912),

Gene: MisterCuddles_58 Start: 40017, Stop: 40382, Start Num: 69

Candidate Starts for MisterCuddles_58:

(Start: 69 @40017 has 171 MA's), (79, 40050), (84, 40065), (86, 40068), (93, 40107), (94, 40110), (97, 40131), (108, 40191), (113, 40224), (120, 40266), (121, 40272), (143, 40368),

Gene: Modragons_64 Start: 42659, Stop: 43024, Start Num: 69

Candidate Starts for Modragons_64:

(Start: 69 @42659 has 171 MA's), (79, 42692), (84, 42707), (86, 42710), (93, 42749), (94, 42752), (97, 42773), (103, 42806), (108, 42833), (113, 42866), (120, 42908), (121, 42914), (143, 43010),

Gene: Mova_61 Start: 39791, Stop: 40156, Start Num: 69

Candidate Starts for Mova_61:

(Start: 69 @39791 has 171 MA's), (79, 39824), (84, 39839), (86, 39842), (94, 39884), (97, 39905), (103, 39938), (108, 39965), (113, 39998), (120, 40040), (121, 40046), (143, 40142),

Gene: Mozy_69 Start: 42795, Stop: 43160, Start Num: 69

Candidate Starts for Mozy_69:

(Start: 69 @42795 has 171 MA's), (79, 42828), (84, 42843), (86, 42846), (93, 42885), (94, 42888), (97, 42909), (108, 42969), (113, 43002), (120, 43044), (121, 43050), (143, 43146),

Gene: Mudpuppy_42 Start: 33064, Stop: 33480, Start Num: 73

Candidate Starts for Mudpuppy_42:

(Start: 73 @33064 has 32 MA's), (90, 33118), (113, 33244), (122, 33298), (154, 33454), (155, 33472),

Gene: Mufasa8_70 Start: 44952, Stop: 45344, Start Num: 70

Candidate Starts for Mufasa8_70:

(47, 44829), (59, 44901), (Start: 70 @44952 has 36 MA's), (94, 45045),

Gene: MulchExplorer_67 Start: 42088, Stop: 42453, Start Num: 69

Candidate Starts for MulchExplorer_67:

(Start: 69 @42088 has 171 MA's), (79, 42121), (84, 42136), (86, 42139), (93, 42178), (94, 42181), (97, 42202), (103, 42235), (107, 42256), (108, 42262), (113, 42295), (120, 42337), (121, 42343), (143, 42439),

Gene: MurphyJoseph_72 Start: 40710, Stop: 41099, Start Num: 70

Candidate Starts for MurphyJoseph_72:

(Start: 70 @40710 has 36 MA's), (102, 40833), (108, 40866), (110, 40881), (118, 40935), (134, 41025),

Gene: Music_44 Start: 34907, Stop: 35269, Start Num: 73

Candidate Starts for Music_44:

(Start: 73 @34907 has 32 MA's), (90, 34958), (113, 35090),

Gene: Mutaforma13_64 Start: 43121, Stop: 43486, Start Num: 69

Candidate Starts for Mutaforma13_64:

(Start: 69 @43121 has 171 MA's), (79, 43154), (84, 43169), (86, 43172), (93, 43211), (94, 43214), (97, 43235), (103, 43268), (108, 43295), (113, 43328), (120, 43370), (121, 43376), (143, 43472),

Gene: Mwanjiwa_66 Start: 40892, Stop: 41257, Start Num: 69

Candidate Starts for Mwanjiwa_66:

(Start: 69 @40892 has 171 MA's), (79, 40925), (84, 40940), (86, 40943), (93, 40982), (94, 40985), (97, 41006), (103, 41039), (107, 41060), (108, 41066), (113, 41099), (120, 41141), (121, 41147), (143, 41243),

Gene: NCRodriguez_59 Start: 34274, Stop: 34711, Start Num: 80

Candidate Starts for NCRodriguez_59:

(Start: 80 @34274 has 11 MA's), (99, 34370), (105, 34397), (111, 34445), (121, 34502), (122, 34508), (126, 34529), (139, 34595), (145, 34625), (151, 34649), (153, 34661),

Gene: Nandito_53 Start: 37649, Stop: 38023, Start Num: 69

Candidate Starts for Nandito_53:

(49, 37544), (50, 37547), (Start: 69 @37649 has 171 MA's), (127, 37946),

Gene: NewHope4_61 Start: 40206, Stop: 40571, Start Num: 69

Candidate Starts for NewHope4_61:

(Start: 69 @40206 has 171 MA's), (79, 40239), (84, 40254), (86, 40257), (93, 40296), (94, 40299), (97, 40320), (108, 40380), (113, 40413), (120, 40455), (121, 40461), (143, 40557),

Gene: NewKitty_78 Start: 43640, Stop: 44041, Start Num: 70

Candidate Starts for NewKitty_78:

(Start: 70 @43640 has 36 MA's), (108, 43808), (112, 43835), (118, 43877),

Gene: Nitro_44 Start: 33699, Stop: 34070, Start Num: 73

Candidate Starts for Nitro_44:

(Start: 73 @33699 has 32 MA's), (95, 33786), (113, 33879), (122, 33933), (141, 34026),

Gene: Nivrat_56 Start: 39576, Stop: 39941, Start Num: 69

Candidate Starts for Nivrat_56:

(Start: 69 @39576 has 171 MA's), (79, 39609), (84, 39624), (86, 39627), (93, 39666), (94, 39669), (97, 39690), (103, 39723), (107, 39744), (108, 39750), (113, 39783), (120, 39825), (121, 39831), (143, 39927),

Gene: NormanBulbieJr_60 Start: 40204, Stop: 40569, Start Num: 69

Candidate Starts for NormanBulbieJr_60:

(Start: 69 @40204 has 171 MA's), (79, 40237), (84, 40252), (86, 40255), (93, 40294), (94, 40297), (97, 40318), (103, 40351), (108, 40378), (113, 40411), (120, 40453), (121, 40459), (143, 40555),

Gene: ObiToo_51 Start: 34185, Stop: 34577, Start Num: 73

Candidate Starts for ObiToo_51:

(Start: 73 @34185 has 32 MA's), (90, 34239), (113, 34365), (150, 34551), (152, 34569),

Gene: Ochi17_63 Start: 42266, Stop: 42631, Start Num: 69

Candidate Starts for Ochi17_63:

(Start: 69 @42266 has 171 MA's), (79, 42299), (84, 42314), (86, 42317), (93, 42356), (94, 42359), (97, 42380), (103, 42413), (108, 42440), (113, 42473), (120, 42515), (121, 42521), (143, 42617),

Gene: OfUltron_65 Start: 42815, Stop: 43180, Start Num: 69

Candidate Starts for OfUltron_65:

(Start: 69 @42815 has 171 MA's), (79, 42848), (84, 42863), (86, 42866), (93, 42905), (94, 42908), (97, 42929), (103, 42962), (108, 42989), (113, 43022), (120, 43064), (121, 43070), (143, 43166),

Gene: Oksu_64 Start: 43078, Stop: 43443, Start Num: 69

Candidate Starts for Oksu_64:

(Start: 69 @43078 has 171 MA's), (79, 43111), (84, 43126), (86, 43129), (93, 43168), (94, 43171), (97, 43192), (103, 43225), (108, 43252), (113, 43285), (120, 43327), (121, 43333), (143, 43429),

Gene: OldBen_57 Start: 40129, Stop: 40494, Start Num: 69

Candidate Starts for OldBen_57:

(Start: 69 @40129 has 171 MA's), (79, 40162), (84, 40177), (86, 40180), (94, 40222), (97, 40243), (108, 40303), (113, 40336), (120, 40378), (121, 40384), (143, 40480),

Gene: OlinDD_71 Start: 44929, Stop: 44579, Start Num: 75

Candidate Starts for OlinDD_71:

(45, 45070), (57, 44986), (Start: 75 @44929 has 6 MA's), (82, 44902), (86, 44893), (88, 44890), (97, 44827), (101, 44803), (129, 44626), (136, 44611), (142, 44590),

Gene: OlympiaSaint_62 Start: 40722, Stop: 41087, Start Num: 69

Candidate Starts for OlympiaSaint_62:

(Start: 69 @40722 has 171 MA's), (79, 40755), (84, 40770), (86, 40773), (93, 40812), (94, 40815), (97, 40836), (103, 40869), (108, 40896), (113, 40929), (120, 40971), (121, 40977), (143, 41073),

Gene: OwlsT2W_60 Start: 40441, Stop: 40806, Start Num: 69

Candidate Starts for OwlsT2W_60:

(Start: 69 @40441 has 171 MA's), (79, 40474), (84, 40489), (86, 40492), (93, 40531), (94, 40534), (97, 40555), (103, 40588), (108, 40615), (113, 40648), (120, 40690), (121, 40696), (143, 40792),

Gene: PHappiness_55 Start: 38486, Stop: 38851, Start Num: 69

Candidate Starts for PHappiness_55:

(Start: 69 @38486 has 171 MA's), (79, 38519), (84, 38534), (86, 38537), (94, 38579), (97, 38600), (103, 38633), (107, 38654), (108, 38660), (113, 38693), (120, 38735), (121, 38741), (143, 38837),

Gene: PMC_57 Start: 40831, Stop: 41196, Start Num: 69

Candidate Starts for PMC_57:

(Start: 69 @40831 has 171 MA's), (79, 40864), (84, 40879), (86, 40882), (93, 40921), (94, 40924), (97, 40945), (103, 40978), (108, 41005), (113, 41038), (120, 41080), (121, 41086), (143, 41182),

Gene: Pacc40_54 Start: 38560, Stop: 38925, Start Num: 69

Candidate Starts for Pacc40_54:

(Start: 69 @38560 has 171 MA's), (79, 38593), (84, 38608), (86, 38611), (94, 38653), (97, 38674), (103, 38707), (107, 38728), (108, 38734), (113, 38767), (120, 38809), (121, 38815), (143, 38911),

Gene: PatoPoderoso_57 Start: 39332, Stop: 39697, Start Num: 69

Candidate Starts for PatoPoderoso_57:

(Start: 69 @39332 has 171 MA's), (79, 39365), (84, 39380), (86, 39383), (93, 39422), (94, 39425), (97, 39446), (103, 39479), (108, 39506), (113, 39539), (120, 39581), (121, 39587), (143, 39683),

Gene: Peridot_61 Start: 39669, Stop: 40034, Start Num: 69

Candidate Starts for Peridot_61:

(Start: 69 @39669 has 171 MA's), (79, 39702), (84, 39717), (86, 39720), (93, 39759), (94, 39762), (97, 39783), (103, 39816), (108, 39843), (113, 39876), (120, 39918), (121, 39924), (143, 40020),

Gene: Persistence_70 Start: 40343, Stop: 40708, Start Num: 70

Candidate Starts for Persistence_70:

(Start: 70 @40343 has 36 MA's), (87, 40376), (90, 40391), (97, 40439), (108, 40499), (117, 40562),

Gene: Phasih_58 Start: 40630, Stop: 40995, Start Num: 69

Candidate Starts for Phasih_58:

(Start: 69 @40630 has 171 MA's), (79, 40663), (84, 40678), (86, 40681), (93, 40720), (94, 40723), (97, 40744), (108, 40804), (113, 40837), (120, 40879), (121, 40885), (133, 40954), (143, 40981),

Gene: Phatniss_58 Start: 40209, Stop: 40574, Start Num: 69

Candidate Starts for Phatniss_58:

(Start: 69 @40209 has 171 MA's), (79, 40242), (84, 40257), (86, 40260), (93, 40299), (94, 40302), (97, 40323), (103, 40356), (107, 40377), (108, 40383), (113, 40416), (120, 40458), (121, 40464), (143, 40560),

Gene: PhillyJawn_58 Start: 33945, Stop: 34382, Start Num: 80

Candidate Starts for PhillyJawn_58:

(Start: 80 @33945 has 11 MA's), (99, 34041), (105, 34068), (111, 34116), (121, 34173), (122, 34179), (126, 34200), (139, 34266), (145, 34296), (151, 34320), (153, 34332),

Gene: Philus_63 Start: 41366, Stop: 41731, Start Num: 69

Candidate Starts for Philus_63:

(Start: 69 @41366 has 171 MA's), (79, 41399), (84, 41414), (86, 41417), (93, 41456), (94, 41459), (97, 41480), (103, 41513), (107, 41534), (108, 41540), (113, 41573), (120, 41615), (121, 41621), (143, 41717),

Gene: Phingu_60 Start: 34169, Stop: 34606, Start Num: 80

Candidate Starts for Phingu_60:

(7, 33533), (17, 33692), (Start: 80 @34169 has 11 MA's), (99, 34265), (105, 34292), (111, 34340), (121, 34397), (122, 34403), (126, 34424), (139, 34490), (145, 34520), (151, 34544), (153, 34556),

Gene: Phives_50 Start: 35604, Stop: 36011, Start Num: 72

Candidate Starts for Phives_50:

(Start: 72 @35604 has 2 MA's), (113, 35787), (122, 35841), (141, 35934), (154, 35985), (155, 36003),

Gene: PhilipPhlop_60 Start: 41923, Stop: 42288, Start Num: 69

Candidate Starts for PhilipPhlop_60:

(Start: 69 @41923 has 171 MA's), (79, 41956), (84, 41971), (86, 41974), (93, 42013), (94, 42016), (97, 42037), (103, 42070), (108, 42097), (113, 42130), (120, 42172), (121, 42178), (143, 42274),

Gene: Phonegingi_58 Start: 34265, Stop: 34702, Start Num: 80

Candidate Starts for Phonegingi_58:

(21, 33854), (Start: 80 @34265 has 11 MA's), (105, 34388), (111, 34436), (113, 34445), (121, 34493), (122, 34499), (126, 34520), (139, 34586), (145, 34616), (153, 34652),

Gene: Phrank15_80 Start: 42781, Stop: 43146, Start Num: 70

Candidate Starts for Phrank15_80:

(51, 42679), (Start: 70 @42781 has 36 MA's), (87, 42814), (94, 42856), (97, 42877), (108, 42937), (117, 43000),

Gene: Pickles13_57 Start: 34624, Stop: 35061, Start Num: 80

Candidate Starts for Pickles13_57:

(Start: 75 @34597 has 6 MA's), (Start: 80 @34624 has 11 MA's), (96, 34705), (105, 34747), (111, 34795), (121, 34852), (122, 34858), (126, 34879), (139, 34945), (145, 34975), (153, 35011),

Gene: Pioneer3_71 Start: 44751, Stop: 44401, Start Num: 75

Candidate Starts for Pioneer3_71:

(45, 44892), (57, 44808), (Start: 75 @44751 has 6 MA's), (82, 44724), (86, 44715), (88, 44712), (97, 44649), (101, 44625), (129, 44448), (136, 44433), (142, 44412),

Gene: Pippy_58 Start: 39072, Stop: 39437, Start Num: 69

Candidate Starts for Pippy_58:

(Start: 69 @39072 has 171 MA's), (79, 39105), (84, 39120), (86, 39123), (93, 39162), (94, 39165), (97, 39186), (103, 39219), (108, 39246), (113, 39279), (120, 39321), (121, 39327), (143, 39423),

Gene: Pixelle_47 Start: 35172, Stop: 35567, Start Num: 73

Candidate Starts for Pixelle_47:

(Start: 73 @35172 has 32 MA's), (90, 35226), (113, 35352),

Gene: Platte_71 Start: 44704, Stop: 44354, Start Num: 75

Candidate Starts for Platte_71:

(57, 44761), (Start: 75 @44704 has 6 MA's), (82, 44677), (86, 44668), (88, 44665), (97, 44602), (101, 44578), (129, 44401), (136, 44386), (142, 44365),

Gene: Plumbus_62 Start: 40530, Stop: 40895, Start Num: 69

Candidate Starts for Plumbus_62:

(Start: 69 @40530 has 171 MA's), (79, 40563), (84, 40578), (86, 40581), (94, 40623), (97, 40644), (103, 40677), (107, 40698), (108, 40704), (113, 40737), (120, 40779), (121, 40785), (143, 40881),

Gene: Poenanya_60 Start: 41387, Stop: 41752, Start Num: 69

Candidate Starts for Poenanya_60:

(Start: 69 @41387 has 171 MA's), (79, 41420), (84, 41435), (86, 41438), (94, 41480), (97, 41501), (103, 41534), (107, 41555), (108, 41561), (113, 41594), (120, 41636), (121, 41642), (143, 41738),

Gene: Polka14_58 Start: 39583, Stop: 39948, Start Num: 69

Candidate Starts for Polka14_58:

(Start: 69 @39583 has 171 MA's), (79, 39616), (84, 39631), (86, 39634), (93, 39673), (94, 39676), (97, 39697), (103, 39730), (108, 39757), (113, 39790), (120, 39832), (121, 39838), (143, 39934),

Gene: Pollywog_61 Start: 41040, Stop: 41405, Start Num: 69

Candidate Starts for Pollywog_61:

(Start: 69 @41040 has 171 MA's), (79, 41073), (84, 41088), (86, 41091), (93, 41130), (94, 41133), (97, 41154), (103, 41187), (108, 41214), (113, 41247), (120, 41289), (121, 41295), (143, 41391),

Gene: Powerpuff_48 Start: 34514, Stop: 34927, Start Num: 73

Candidate Starts for Powerpuff_48:

(Start: 73 @34514 has 32 MA's), (90, 34568), (113, 34694), (122, 34748), (154, 34901), (155, 34919),

Gene: Prairie_53 Start: 36909, Stop: 37310, Start Num: 69

Candidate Starts for Prairie_53:

(49, 36807), (50, 36810), (Start: 69 @36909 has 171 MA's), (125, 37170),

Gene: Priscilla_60 Start: 40303, Stop: 40668, Start Num: 69

Candidate Starts for Priscilla_60:

(Start: 69 @40303 has 171 MA's), (79, 40336), (84, 40351), (86, 40354), (93, 40393), (94, 40396), (97, 40417), (103, 40450), (108, 40477), (113, 40510), (120, 40552), (121, 40558), (143, 40654),

Gene: Pumpkins_45 Start: 33566, Stop: 33961, Start Num: 73

Candidate Starts for Pumpkins_45:

(Start: 73 @33566 has 32 MA's), (90, 33620), (113, 33749),

Gene: QuickMath_62 Start: 42312, Stop: 42677, Start Num: 69

Candidate Starts for QuickMath_62:

(Start: 69 @42312 has 171 MA's), (79, 42345), (84, 42360), (86, 42363), (93, 42402), (94, 42405), (97, 42426), (103, 42459), (107, 42480), (108, 42486), (113, 42519), (120, 42561), (121, 42567), (143, 42663),

Gene: RadFad_81 Start: 42975, Stop: 43364, Start Num: 70

Candidate Starts for RadFad_81:

(1, 41406), (2, 41541), (3, 41652), (4, 41688), (5, 41751), (11, 42429), (24, 42645), (Start: 70 @42975 has 36 MA's), (102, 43098), (108, 43131), (110, 43146), (118, 43200), (134, 43290),

Gene: Radiance_59 Start: 40325, Stop: 40690, Start Num: 69

Candidate Starts for Radiance_59:

(Start: 69 @40325 has 171 MA's), (79, 40358), (86, 40376), (94, 40418), (97, 40439), (103, 40472), (107, 40493), (108, 40499), (113, 40532), (120, 40574), (121, 40580), (143, 40676),

Gene: Ramsey_59 Start: 40638, Stop: 41003, Start Num: 69

Candidate Starts for Ramsey_59:

(Start: 69 @40638 has 171 MA's), (79, 40671), (81, 40677), (86, 40689), (98, 40761), (103, 40785), (104, 40788), (108, 40812), (120, 40887), (121, 40893), (137, 40968),

Gene: Raphaella_77 Start: 41746, Stop: 42147, Start Num: 70

Candidate Starts for Raphaella_77:

(Start: 70 @41746 has 36 MA's), (108, 41914), (118, 41983),

Gene: Raqqa_74 Start: 42460, Stop: 42840, Start Num: 78

Candidate Starts for Raqqa_74:

(Start: 70 @42436 has 36 MA's), (78, 42460), (85, 42481), (102, 42574), (108, 42607), (124, 42703),

Gene: Renaud18_66 Start: 41090, Stop: 41452, Start Num: 69

Candidate Starts for Renaud18_66:

(Start: 69 @41090 has 171 MA's), (79, 41123), (84, 41138), (86, 41141), (93, 41180), (94, 41183), (97, 41204), (107, 41255), (108, 41261), (121, 41342), (143, 41438),

Gene: Rialto_66 Start: 43107, Stop: 43472, Start Num: 69

Candidate Starts for Rialto_66:

(Start: 69 @43107 has 171 MA's), (79, 43140), (84, 43155), (86, 43158), (93, 43197), (94, 43200), (97, 43221), (103, 43254), (107, 43275), (108, 43281), (113, 43314), (120, 43356), (121, 43362), (143, 43458),

Gene: Richie_79 Start: 43614, Stop: 44015, Start Num: 70

Candidate Starts for Richie_79:

(29, 43368), (Start: 70 @43614 has 36 MA's), (108, 43782), (118, 43851),

Gene: Rita_61 Start: 38934, Stop: 39299, Start Num: 69

Candidate Starts for Rita_61:

(Start: 69 @38934 has 171 MA's), (79, 38967), (84, 38982), (86, 38985), (93, 39024), (94, 39027), (97, 39048), (103, 39081), (108, 39108), (113, 39141), (120, 39183), (121, 39189), (143, 39285),

Gene: RitaG_55 Start: 38831, Stop: 39196, Start Num: 69

Candidate Starts for RitaG_55:

(Start: 69 @38831 has 171 MA's), (79, 38864), (84, 38879), (86, 38882), (94, 38924), (97, 38945), (103, 38978), (107, 38999), (108, 39005), (113, 39038), (120, 39080), (121, 39086), (143, 39182),

Gene: Rockne_61 Start: 40843, Stop: 41208, Start Num: 69

Candidate Starts for Rockne_61:

(Start: 69 @40843 has 171 MA's), (79, 40876), (84, 40891), (86, 40894), (93, 40933), (94, 40936), (97, 40957), (103, 40990), (108, 41017), (113, 41050), (120, 41092), (121, 41098), (143, 41194),

Gene: RockyHorror_61 Start: 39889, Stop: 40254, Start Num: 69

Candidate Starts for RockyHorror_61:

(Start: 69 @39889 has 171 MA's), (79, 39922), (86, 39940), (93, 39979), (94, 39982), (97, 40003), (103, 40036), (108, 40063), (113, 40096), (120, 40138), (121, 40144), (143, 40240),

Gene: Ruby_56 Start: 40018, Stop: 40383, Start Num: 69

Candidate Starts for Ruby_56:

(Start: 69 @40018 has 171 MA's), (79, 40051), (84, 40066), (86, 40069), (93, 40108), (94, 40111), (97, 40132), (108, 40192), (113, 40225), (120, 40267), (121, 40273), (143, 40369),

Gene: SG4_57 Start: 39721, Stop: 40086, Start Num: 69

Candidate Starts for SG4_57:

(Start: 69 @39721 has 171 MA's), (79, 39754), (84, 39769), (86, 39772), (93, 39811), (94, 39814), (97, 39835), (103, 39868), (108, 39895), (113, 39928), (120, 39970), (121, 39976), (143, 40072),

Gene: Saal_62 Start: 41474, Stop: 41839, Start Num: 69

Candidate Starts for Saal_62:

(Start: 69 @41474 has 171 MA's), (79, 41507), (84, 41522), (86, 41525), (93, 41564), (94, 41567), (97, 41588), (103, 41621), (108, 41648), (113, 41681), (120, 41723), (121, 41729), (143, 41825),

Gene: Sabbb_64 Start: 41162, Stop: 41527, Start Num: 69

Candidate Starts for Sabbb_64:

(Start: 69 @41162 has 171 MA's), (79, 41195), (84, 41210), (86, 41213), (93, 41252), (94, 41255), (97, 41276), (108, 41336), (113, 41369), (120, 41411), (121, 41417), (133, 41486), (143, 41513),

Gene: Sakai_73 Start: 41641, Stop: 42042, Start Num: 70

Candidate Starts for Sakai_73:

(29, 41395), (Start: 70 @41641 has 36 MA's), (108, 41809), (118, 41878),

Gene: Sashimi_74 Start: 42326, Stop: 42715, Start Num: 70

Candidate Starts for Sashimi_74:

(Start: 70 @42326 has 36 MA's), (102, 42449), (118, 42551), (134, 42641),

Gene: Sassafras_58 Start: 39803, Stop: 40168, Start Num: 69

Candidate Starts for Sassafras_58:

(Start: 69 @39803 has 171 MA's), (79, 39836), (84, 39851), (86, 39854), (93, 39893), (94, 39896), (97, 39917), (103, 39950), (108, 39977), (113, 40010), (120, 40052), (121, 40058), (143, 40154),

Gene: Schaffner_46 Start: 33571, Stop: 33933, Start Num: 73

Candidate Starts for Schaffner_46:

(Start: 73 @33571 has 32 MA's), (90, 33625), (113, 33751), (122, 33805),

Gene: Scottish_58 Start: 39849, Stop: 40214, Start Num: 69

Candidate Starts for Scottish_58:

(Start: 69 @39849 has 171 MA's), (79, 39882), (84, 39897), (86, 39900), (94, 39942), (97, 39963), (103, 39996), (108, 40023), (113, 40056), (120, 40098), (121, 40104), (143, 40200),

Gene: Seabastian_65 Start: 42816, Stop: 43181, Start Num: 69

Candidate Starts for Seabastian_65:

(Start: 69 @42816 has 171 MA's), (79, 42849), (84, 42864), (86, 42867), (93, 42906), (94, 42909), (97, 42930), (103, 42963), (108, 42990), (113, 43023), (120, 43065), (121, 43071), (143, 43167),

Gene: Seahorse_84 Start: 47304, Stop: 47699, Start Num: 70

Candidate Starts for Seahorse_84:

(Start: 70 @47304 has 36 MA's), (85, 47349), (108, 47475), (124, 47571), (144, 47673),

Gene: ShiLan_59 Start: 40250, Stop: 40615, Start Num: 69

Candidate Starts for ShiLan_59:

(Start: 69 @40250 has 171 MA's), (79, 40283), (84, 40298), (86, 40301), (93, 40340), (94, 40343), (97, 40364), (103, 40397), (108, 40424), (113, 40457), (120, 40499), (121, 40505), (143, 40601),

Gene: ShowerHandel_63 Start: 40214, Stop: 40579, Start Num: 69

Candidate Starts for ShowerHandel_63:

(Start: 69 @40214 has 171 MA's), (79, 40247), (84, 40262), (86, 40265), (93, 40304), (94, 40307), (97, 40328), (103, 40361), (108, 40388), (113, 40421), (120, 40463), (121, 40469), (143, 40565),

Gene: ShroomBoi_62 Start: 41174, Stop: 41539, Start Num: 69

Candidate Starts for ShroomBoi_62:

(Start: 69 @41174 has 171 MA's), (79, 41207), (84, 41222), (86, 41225), (94, 41267), (97, 41288), (103, 41321), (108, 41348), (113, 41381), (120, 41423), (121, 41429), (143, 41525),

Gene: Shukran_73 Start: 41223, Stop: 41588, Start Num: 70

Candidate Starts for Shukran_73:

(32, 41013), (48, 41118), (68, 41211), (Start: 70 @41223 has 36 MA's), (87, 41256), (97, 41319), (108, 41379),

Gene: SiSi_58 Start: 39623, Stop: 39988, Start Num: 69

Candidate Starts for SiSi_58:

(Start: 69 @39623 has 171 MA's), (79, 39656), (84, 39671), (86, 39674), (93, 39713), (94, 39716), (97, 39737), (103, 39770), (108, 39797), (113, 39830), (120, 39872), (121, 39878), (143, 39974),

Gene: Simpson_48 Start: 33419, Stop: 33832, Start Num: 73

Candidate Starts for Simpson_48:

(22, 33089), (Start: 73 @33419 has 32 MA's), (90, 33473), (113, 33599), (122, 33653), (154, 33806), (155, 33824),

Gene: SimranZ1_60 Start: 40397, Stop: 40762, Start Num: 69

Candidate Starts for SimranZ1_60:

(Start: 69 @40397 has 171 MA's), (79, 40430), (84, 40445), (86, 40448), (93, 40487), (94, 40490), (97, 40511), (108, 40571), (113, 40604), (120, 40646), (121, 40652), (133, 40721), (143, 40748),

Gene: Slim_61 Start: 41010, Stop: 41375, Start Num: 69

Candidate Starts for Slim_61:

(Start: 69 @41010 has 171 MA's), (79, 41043), (84, 41058), (86, 41061), (93, 41100), (94, 41103), (97, 41124), (103, 41157), (108, 41184), (113, 41217), (120, 41259), (121, 41265), (143, 41361),

Gene: SonDevVon_83 Start: 42690, Stop: 43091, Start Num: 70

Candidate Starts for SonDevVon_83:

(29, 42444), (Start: 70 @42690 has 36 MA's), (108, 42858), (118, 42927),

Gene: Sonali_65 Start: 45108, Stop: 45521, Start Num: 67

Candidate Starts for Sonali_65:

(41, 44958), (Start: 67 @45108 has 2 MA's), (92, 45198), (95, 45216), (115, 45339), (119, 45363),

Gene: Soul22_66 Start: 41808, Stop: 42173, Start Num: 69

Candidate Starts for Soul22_66:

(Start: 69 @41808 has 171 MA's), (79, 41841), (84, 41856), (86, 41859), (93, 41898), (94, 41901), (97, 41922), (103, 41955), (108, 41982), (113, 42015), (120, 42057), (121, 42063), (143, 42159),

Gene: Spartacus_62 Start: 40884, Stop: 41249, Start Num: 69

Candidate Starts for Spartacus_62:

(Start: 69 @40884 has 171 MA's), (79, 40917), (84, 40932), (86, 40935), (93, 40974), (94, 40977), (97, 40998), (108, 41058), (113, 41091), (120, 41133), (121, 41139), (143, 41235),

Gene: SpicyFrank_78 Start: 42043, Stop: 42432, Start Num: 70

Candidate Starts for SpicyFrank_78:

(Start: 70 @42043 has 36 MA's), (102, 42166), (108, 42199), (110, 42214), (118, 42268),

Gene: Spikelee_67 Start: 42504, Stop: 42869, Start Num: 69

Candidate Starts for Spikelee_67:

(Start: 69 @42504 has 171 MA's), (79, 42537), (84, 42552), (86, 42555), (94, 42597), (97, 42618), (108, 42678), (113, 42711), (120, 42753), (121, 42759), (143, 42855),

Gene: Spoonbill_57 Start: 38791, Stop: 39156, Start Num: 69

Candidate Starts for Spoonbill_57:

(Start: 69 @38791 has 171 MA's), (79, 38824), (84, 38839), (86, 38842), (94, 38884), (97, 38905), (103, 38938), (107, 38959), (108, 38965), (113, 38998), (120, 39040), (121, 39046), (143, 39142),

Gene: Sporco_78 Start: 43426, Stop: 43827, Start Num: 70

Candidate Starts for Sporco_78:

(Start: 70 @43426 has 36 MA's), (108, 43594), (118, 43663),

Gene: Starcevich_60 Start: 40380, Stop: 40745, Start Num: 69

Candidate Starts for Starcevich_60:

(Start: 69 @40380 has 171 MA's), (79, 40413), (84, 40428), (86, 40431), (93, 40470), (94, 40473), (97, 40494), (103, 40527), (108, 40554), (113, 40587), (120, 40629), (121, 40635), (143, 40731),

Gene: Strokeseat_56 Start: 38330, Stop: 38695, Start Num: 69

Candidate Starts for Strokeseat_56:

(Start: 69 @38330 has 171 MA's), (79, 38363), (84, 38378), (86, 38381), (94, 38423), (97, 38444), (103, 38477), (107, 38498), (108, 38504), (120, 38579), (121, 38585), (143, 38681),

Gene: Sunshine23_66 Start: 44762, Stop: 45172, Start Num: 67

Candidate Starts for Sunshine23_66:

(41, 44612), (Start: 67 @44762 has 2 MA's), (82, 44810), (92, 44852), (95, 44870), (108, 44945), (115, 44993), (119, 45017),

Gene: SwagPiggett_65 Start: 42522, Stop: 42887, Start Num: 69

Candidate Starts for SwagPiggett_65:

(Start: 69 @42522 has 171 MA's), (79, 42555), (84, 42570), (86, 42573), (93, 42612), (94, 42615), (97, 42636), (103, 42669), (108, 42696), (113, 42729), (120, 42771), (121, 42777), (143, 42873),

Gene: TChen_61 Start: 41633, Stop: 41998, Start Num: 69

Candidate Starts for TChen_61:

(Start: 69 @41633 has 171 MA's), (79, 41666), (86, 41684), (93, 41723), (94, 41726), (97, 41747), (98, 41756), (103, 41780), (108, 41807), (113, 41840), (120, 41882), (121, 41888), (143, 41984),

Gene: Taj_64 Start: 41975, Stop: 42340, Start Num: 69

Candidate Starts for Taj_64:

(Start: 69 @41975 has 171 MA's), (79, 42008), (84, 42023), (86, 42026), (93, 42065), (94, 42068), (97, 42089), (103, 42122), (108, 42149), (113, 42182), (120, 42224), (121, 42230), (143, 42326),

Gene: Tandem_71 Start: 44831, Stop: 44481, Start Num: 75

Candidate Starts for Tandem_71:

(45, 44972), (57, 44888), (Start: 75 @44831 has 6 MA's), (82, 44804), (86, 44795), (88, 44792), (97, 44729), (101, 44705), (129, 44528), (136, 44513), (142, 44492),

Gene: Tbone_46 Start: 33975, Stop: 34388, Start Num: 73

Candidate Starts for Tbone_46:

(38, 33801), (48, 33873), (Start: 73 @33975 has 32 MA's), (90, 34029), (113, 34155), (122, 34209), (154, 34362), (155, 34380),

Gene: TforTroy_47 Start: 33428, Stop: 33973, Start Num: 42

Candidate Starts for TforTroy_47:

(Start: 42 @33428 has 1 MA's), (64, 33557), (90, 33638), (113, 33764), (149, 33947), (152, 33965),

Gene: ThayneTheZag_81 Start: 42670, Stop: 43059, Start Num: 70

Candidate Starts for ThayneTheZag_81:

(Start: 70 @42670 has 36 MA's), (102, 42793), (108, 42826), (110, 42841), (118, 42895),

Gene: ThetaBob_65 Start: 41707, Stop: 42069, Start Num: 69

Candidate Starts for ThetaBob_65:

(Start: 69 @41707 has 171 MA's), (79, 41740), (84, 41755), (86, 41758), (93, 41797), (94, 41800), (97, 41821), (98, 41830), (108, 41878), (120, 41953), (121, 41959), (143, 42055),

Gene: Thonko_86 Start: 63155, Stop: 62742, Start Num: 65

Candidate Starts for Thonko_86:

(16, 63593), (27, 63440), (31, 63365), (35, 63338), (52, 63224), (53, 63218), (Start: 65 @63155 has 1 MA's), (Start: 76 @63116 has 1 MA's), (83, 63086), (86, 63077), (97, 63014), (124, 62858), (126, 62846), (127, 62831), (140, 62783),

Gene: ThursdayNight_48 Start: 33913, Stop: 34314, Start Num: 73

Candidate Starts for ThursdayNight_48:

(Start: 73 @33913 has 32 MA's), (97, 34021), (113, 34105), (131, 34225), (147, 34288),

Gene: Tian_45 Start: 34828, Stop: 35223, Start Num: 73

Candidate Starts for Tian_45:

(8, 34264), (12, 34336), (13, 34345), (18, 34423), (38, 34654), (48, 34726), (Start: 73 @34828 has 32 MA's), (90, 34882), (113, 35008),

Gene: Tiff81_72 Start: 40921, Stop: 41316, Start Num: 70

Candidate Starts for Tiff81_72:

(Start: 70 @40921 has 36 MA's), (85, 40966), (108, 41092), (124, 41188), (144, 41290),

Gene: Tootsieroll_61 Start: 39546, Stop: 39911, Start Num: 69

Candidate Starts for Tootsieroll_61:

(Start: 69 @39546 has 171 MA's), (79, 39579), (84, 39594), (86, 39597), (94, 39639), (97, 39660), (103, 39693), (107, 39714), (108, 39720), (113, 39753), (120, 39795), (121, 39801), (143, 39897),

Gene: Topiatin_68 Start: 42875, Stop: 43240, Start Num: 69

Candidate Starts for Topiatin_68:

(Start: 69 @42875 has 171 MA's), (79, 42908), (84, 42923), (86, 42926), (93, 42965), (94, 42968), (97, 42989), (107, 43043), (108, 43049), (113, 43082), (120, 43124), (121, 43130), (143, 43226),

Gene: Totinger_59 Start: 39476, Stop: 39841, Start Num: 69

Candidate Starts for Totinger_59:

(Start: 69 @39476 has 171 MA's), (79, 39509), (84, 39524), (86, 39527), (93, 39566), (94, 39569), (97, 39590), (103, 39623), (108, 39650), (113, 39683), (120, 39725), (121, 39731), (143, 39827),

Gene: Tuck_49 Start: 35489, Stop: 35893, Start Num: 73

Candidate Starts for Tuck_49:

(Start: 73 @35489 has 32 MA's), (113, 35669), (122, 35723), (141, 35816), (154, 35867), (155, 35885),

Gene: Tutumahutu_47 Start: 33397, Stop: 33810, Start Num: 73

Candidate Starts for Tutumahutu_47:

(Start: 73 @33397 has 32 MA's), (90, 33451), (113, 33577), (122, 33631), (154, 33784), (155, 33802),

Gene: UncleRicky_59 Start: 40457, Stop: 40822, Start Num: 69

Candidate Starts for UncleRicky_59:

(Start: 69 @40457 has 171 MA's), (79, 40490), (84, 40505), (86, 40508), (93, 40547), (94, 40550), (97, 40571), (103, 40604), (107, 40625), (108, 40631), (113, 40664), (120, 40706), (121, 40712), (143, 40808),

Gene: VRedHorse_60 Start: 39530, Stop: 39895, Start Num: 69

Candidate Starts for VRedHorse_60:

(Start: 69 @39530 has 171 MA's), (79, 39563), (84, 39578), (86, 39581), (93, 39620), (94, 39623), (97, 39644), (103, 39677), (108, 39704), (113, 39737), (120, 39779), (121, 39785), (143, 39881),

Gene: Veteran_57 Start: 39234, Stop: 39599, Start Num: 69

Candidate Starts for Veteran_57:

(Start: 69 @39234 has 171 MA's), (79, 39267), (84, 39282), (86, 39285), (93, 39324), (94, 39327), (97, 39348), (103, 39381), (107, 39402), (108, 39408), (113, 39441), (120, 39483), (121, 39489), (143, 39585),

Gene: Violac_62 Start: 41600, Stop: 41965, Start Num: 69

Candidate Starts for Violac_62:

(Start: 69 @41600 has 171 MA's), (79, 41633), (84, 41648), (86, 41651), (94, 41693), (97, 41714), (103, 41747), (107, 41768), (108, 41774), (113, 41807), (120, 41849), (121, 41855), (143, 41951),

Gene: Violeta_59 Start: 34047, Stop: 34484, Start Num: 80

Candidate Starts for Violeta_59:

(7, 33411), (Start: 80 @34047 has 11 MA's), (99, 34143), (105, 34170), (111, 34218), (121, 34275), (122, 34281), (126, 34302), (139, 34368), (145, 34398), (153, 34434),

Gene: Vivum_63 Start: 40532, Stop: 40897, Start Num: 69

Candidate Starts for Vivum_63:

(Start: 69 @40532 has 171 MA's), (79, 40565), (84, 40580), (86, 40583), (94, 40625), (97, 40646), (103, 40679), (107, 40700), (108, 40706), (113, 40739), (120, 40781), (121, 40787), (143, 40883),

Gene: Warda_46 Start: 33470, Stop: 33874, Start Num: 73

Candidate Starts for Warda_46:

(Start: 73 @33470 has 32 MA's), (90, 33524), (113, 33650), (122, 33704), (154, 33848),

Gene: Warren_57 Start: 34005, Stop: 34442, Start Num: 80

Candidate Starts for Warren_57:

(Start: 80 @34005 has 11 MA's), (99, 34101), (105, 34128), (111, 34176), (121, 34233), (122, 34239), (126, 34260), (139, 34326), (145, 34356), (151, 34380), (153, 34392),

Gene: Wee_64 Start: 42051, Stop: 42416, Start Num: 69

Candidate Starts for Wee_64:

(Start: 69 @42051 has 171 MA's), (79, 42084), (84, 42099), (86, 42102), (93, 42141), (94, 42144), (97, 42165), (103, 42198), (108, 42225), (113, 42258), (120, 42300), (121, 42306), (143, 42402),

Gene: Whouxphf_57 Start: 40126, Stop: 40491, Start Num: 69

Candidate Starts for Whouxphf_57:

(Start: 69 @40126 has 171 MA's), (79, 40159), (84, 40174), (86, 40177), (93, 40216), (94, 40219), (97, 40240), (103, 40273), (108, 40300), (113, 40333), (120, 40375), (121, 40381), (143, 40477),

Gene: Wildwest_45 Start: 33392, Stop: 33811, Start Num: 73

Candidate Starts for Wildwest_45:

(9, 32825), (14, 32918), (39, 33218), (50, 33290), (Start: 73 @33392 has 32 MA's), (113, 33578), (154, 33785), (155, 33803),

Gene: WillSterrel_61 Start: 42001, Stop: 42366, Start Num: 69

Candidate Starts for WillSterrel_61:

(Start: 69 @42001 has 171 MA's), (79, 42034), (84, 42049), (86, 42052), (93, 42091), (94, 42094), (97, 42115), (108, 42175), (113, 42208), (120, 42250), (121, 42256), (143, 42352),

Gene: Winchester007_4 Start: 1219, Stop: 1656, Start Num: 80

Candidate Starts for Winchester007_4:

(Start: 80 @1219 has 11 MA's), (99, 1315), (105, 1342), (111, 1390), (121, 1447), (122, 1453), (126, 1474), (139, 1540), (145, 1570), (151, 1594), (153, 1606),

Gene: Windest_80 Start: 41108, Stop: 41497, Start Num: 70

Candidate Starts for Windest_80:

(Start: 70 @41108 has 36 MA's), (102, 41231), (108, 41264), (110, 41279), (118, 41333),

Gene: Wolfstar_76 Start: 46237, Stop: 45881, Start Num: 75

Candidate Starts for Wolfstar_76:

(45, 46384), (57, 46300), (Start: 75 @46237 has 6 MA's), (84, 46201), (86, 46198), (91, 46171), (102, 46102), (106, 46081), (113, 46036), (119, 45997), (121, 45988), (129, 45928), (136, 45913), (138, 45904),

Gene: Yang_46 Start: 33276, Stop: 33626, Start Num: 73

Candidate Starts for Yang_46:

(19, 32868), (20, 32877), (28, 33003), (36, 33066), (38, 33087), (40, 33096), (43, 33114), (44, 33123), (Start: 73 @33276 has 32 MA's), (90, 33330), (113, 33456),

Gene: YesChef_46 Start: 33373, Stop: 33786, Start Num: 73

Candidate Starts for YesChef_46:

(Start: 73 @33373 has 32 MA's), (90, 33427), (113, 33553), (122, 33607), (154, 33760), (155, 33778),

Gene: Yorick_59 Start: 40588, Stop: 40953, Start Num: 69

Candidate Starts for Yorick_59:

(Start: 69 @40588 has 171 MA's), (79, 40621), (84, 40636), (86, 40639), (93, 40678), (94, 40681), (97, 40702), (103, 40735), (108, 40762), (113, 40795), (120, 40837), (121, 40843), (143, 40939),

Gene: Yoshi_73 Start: 41971, Stop: 42333, Start Num: 69

Candidate Starts for Yoshi_73:

(Start: 69 @41971 has 171 MA's), (79, 42004), (84, 42019), (86, 42022), (93, 42061), (94, 42064), (97, 42085), (98, 42094), (108, 42142), (120, 42217), (121, 42223), (143, 42319),

Gene: YoungHarleezy_76 Start: 42016, Stop: 42417, Start Num: 70

Candidate Starts for YoungHarleezy_76:

(Start: 70 @42016 has 36 MA's), (108, 42184), (118, 42253),

Gene: Zapner_73 Start: 42130, Stop: 42495, Start Num: 69

Candidate Starts for Zapner_73:

(Start: 69 @42130 has 171 MA's), (79, 42163), (84, 42178), (86, 42181), (93, 42220), (94, 42223), (97, 42244), (103, 42277), (108, 42304), (113, 42337), (120, 42379), (121, 42385), (143, 42481),

Gene: Zenteno07_93 Start: 66203, Stop: 65790, Start Num: 63

Candidate Starts for Zenteno07_93:

(Start: 63 @66203 has 2 MA's), (83, 66122), (100, 66035), (108, 65993), (113, 65960), (126, 65885), (146, 65795),

Gene: Zerg_60 Start: 40001, Stop: 40366, Start Num: 69

Candidate Starts for Zerg_60:

(Start: 69 @40001 has 171 MA's), (79, 40034), (84, 40049), (86, 40052), (93, 40091), (94, 40094), (97, 40115), (103, 40148), (108, 40175), (113, 40208), (120, 40250), (121, 40256), (143, 40352),

Gene: Zhuangyuan_36 Start: 22960, Stop: 22577, Start Num: 66

Candidate Starts for Zhuangyuan_36:

(37, 23122), (Start: 66 @22960 has 5 MA's), (111, 22747), (130, 22615),

Gene: Zizzle_64 Start: 41844, Stop: 42209, Start Num: 69

Candidate Starts for Zizzle_64:

(Start: 69 @41844 has 171 MA's), (79, 41877), (84, 41892), (86, 41895), (93, 41934), (94, 41937), (97, 41958), (103, 41991), (108, 42018), (113, 42051), (120, 42093), (121, 42099), (143, 42195),

Gene: Zucker_73 Start: 43088, Stop: 43483, Start Num: 70

Candidate Starts for Zucker_73:

(32, 42881), (Start: 70 @43088 has 36 MA's), (85, 43133), (102, 43226), (108, 43259), (144, 43457),