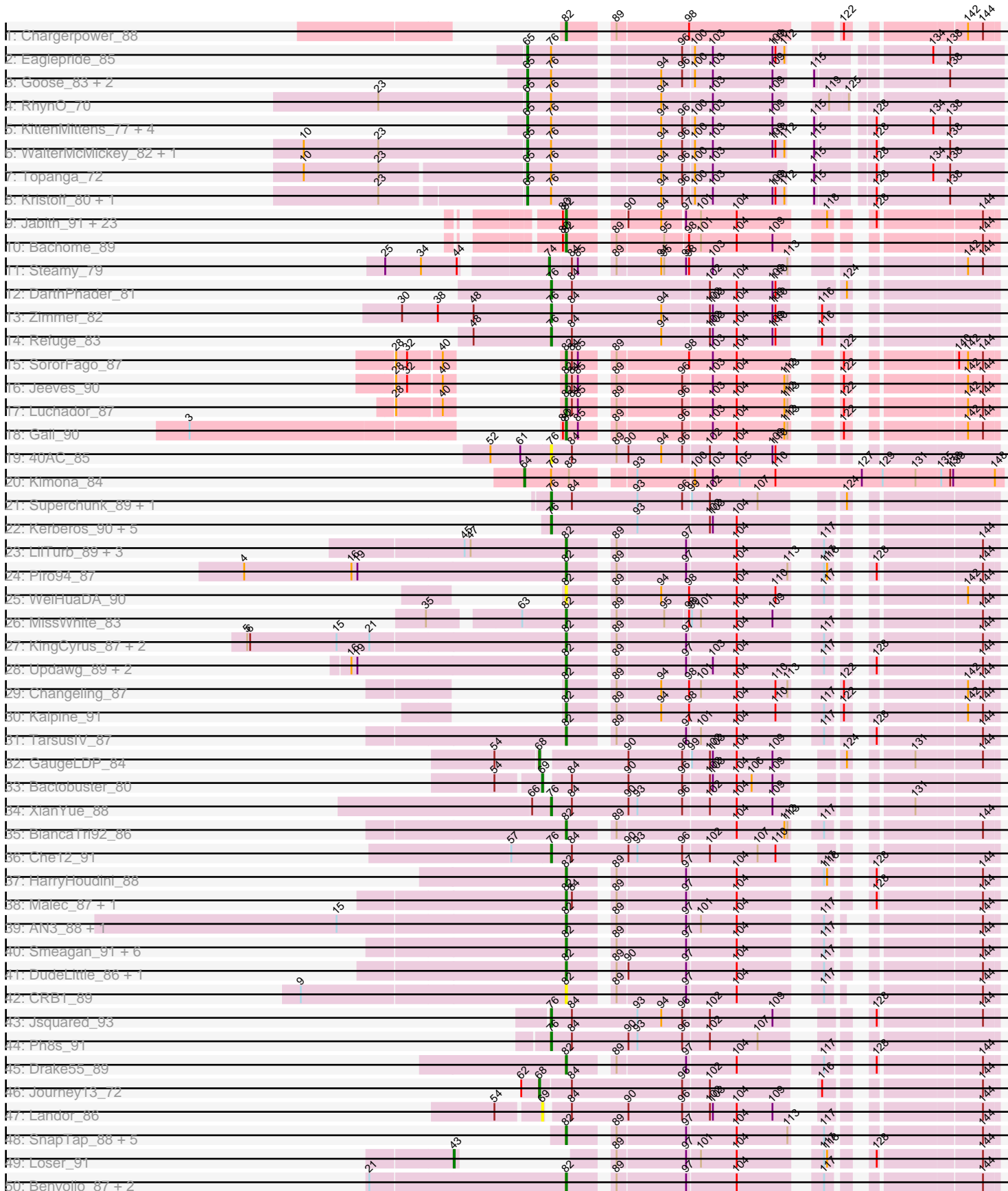
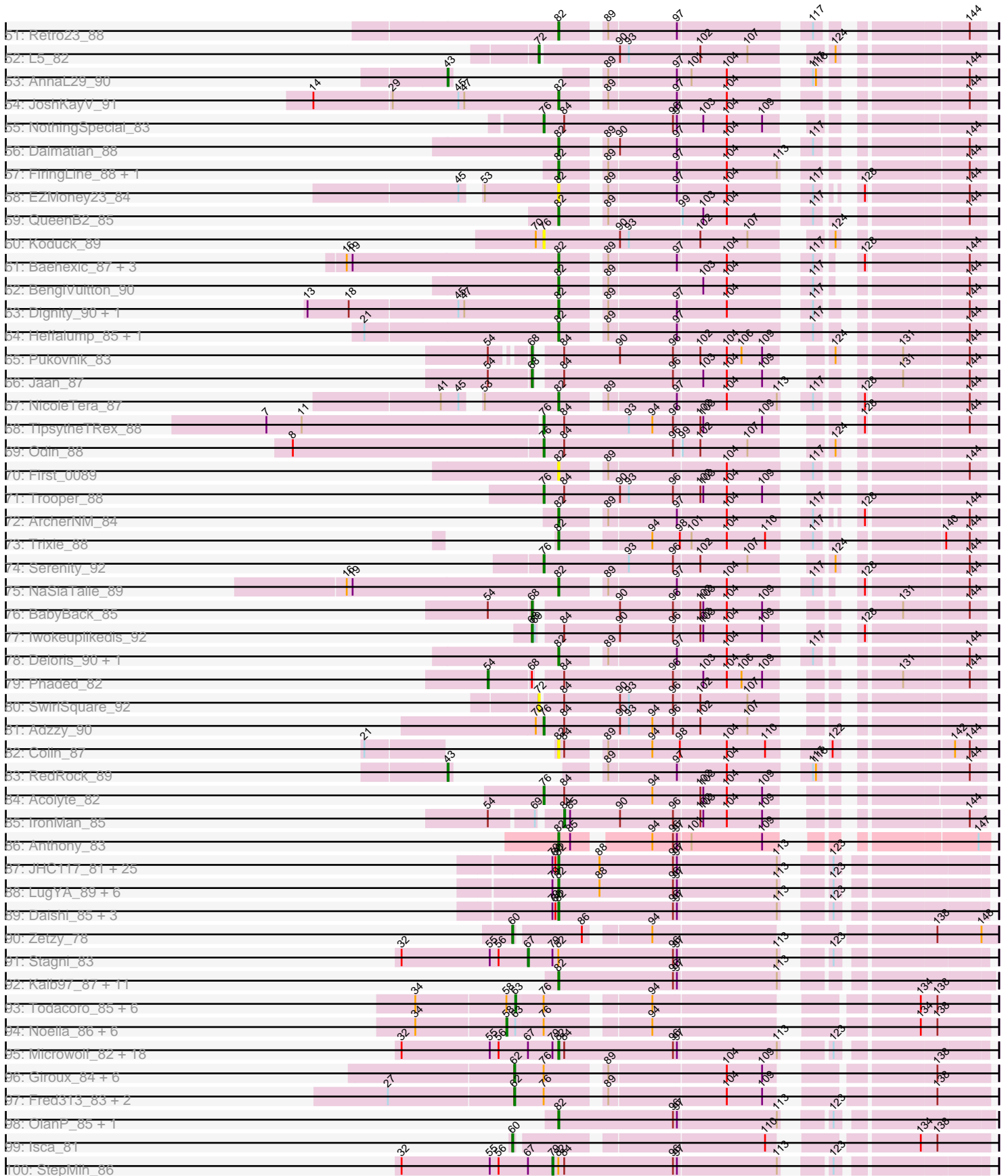


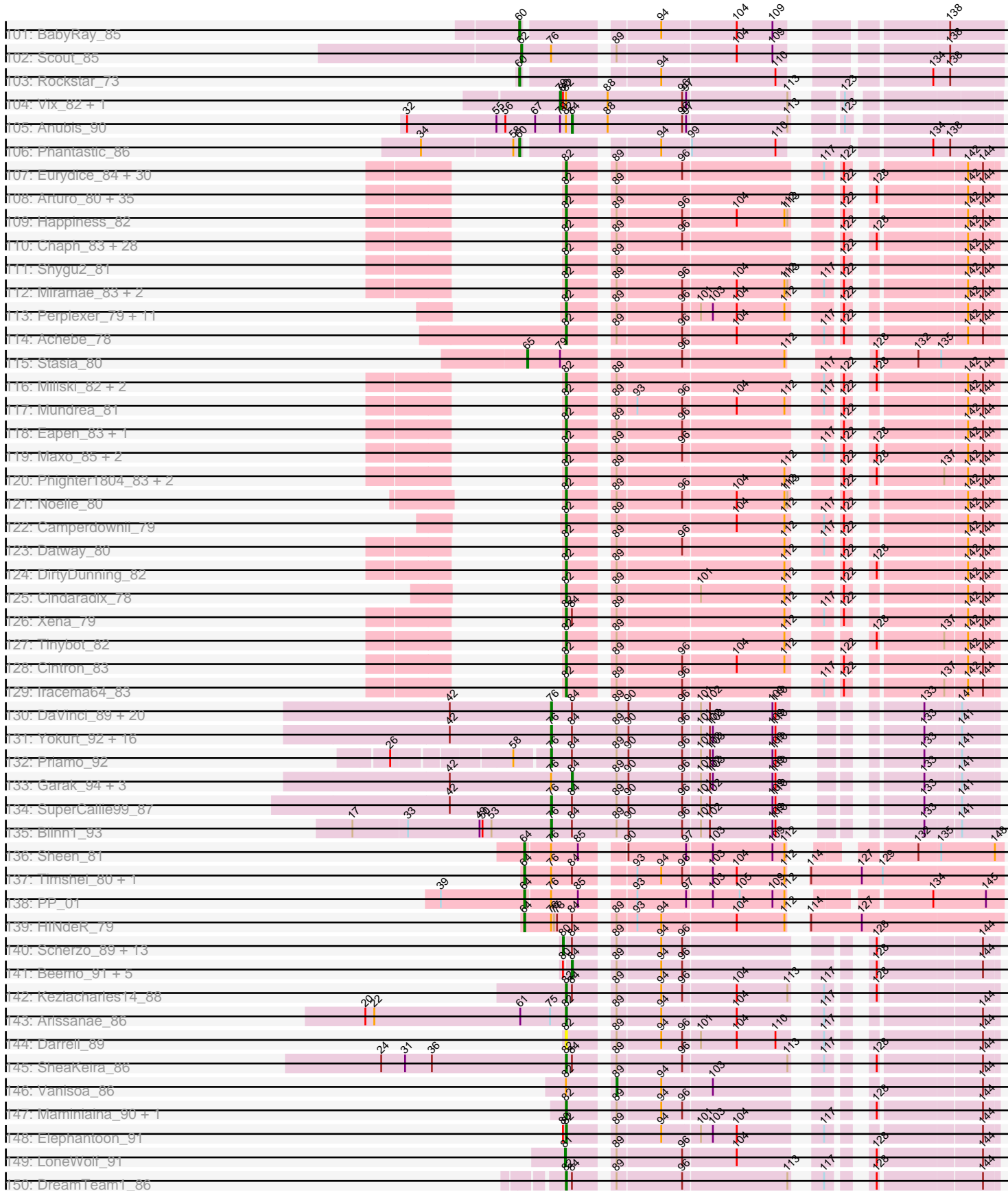
Pham 171105



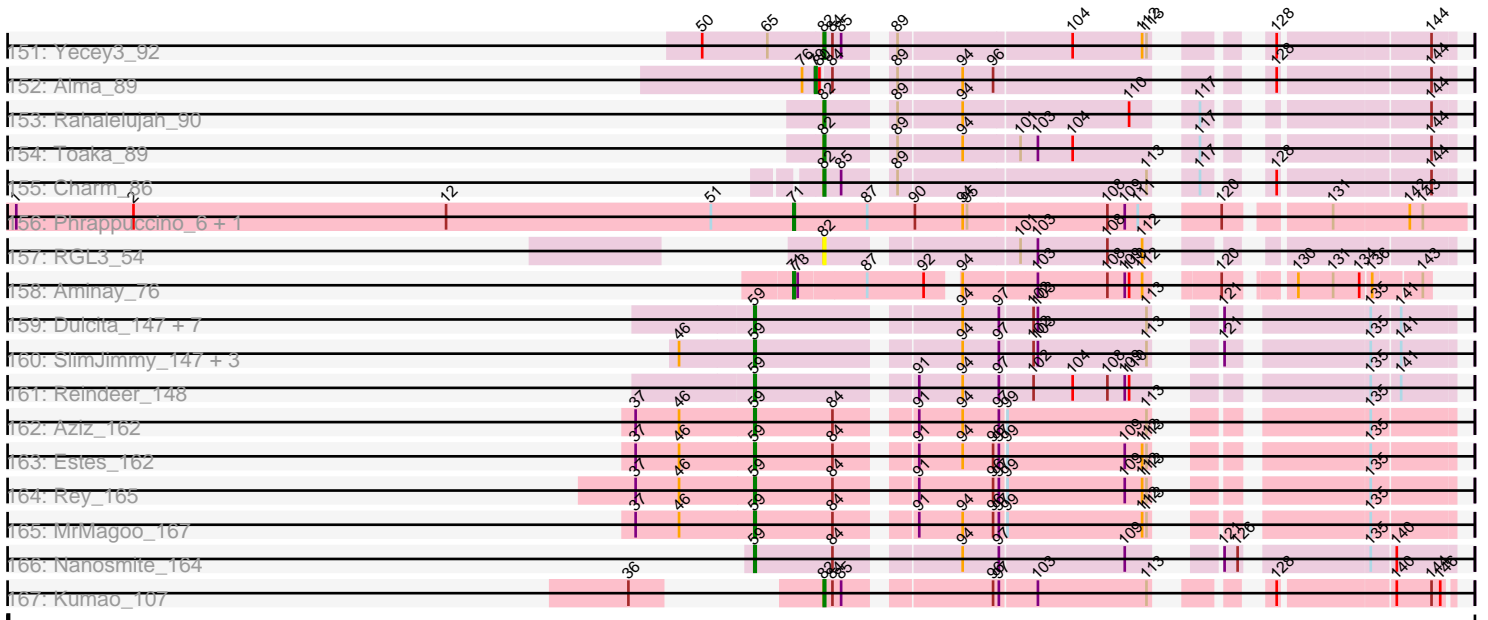
Pham 171105



Pham 171105



Pham 171105



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 171105 Report

This analysis was run 07/09/24 on database version 566.

Pham number 171105 has 502 members, 30 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_88
- Track 2 : Eaglepride_85
- Track 3 : Goose_83, Chupacabra_79, OKCentral2016_81
- Track 4 : RhynO_70
- Track 5 : KittenMittens_77, Poompha_79, Severus_80, PeaceMeal1_79, Drake94_79
- Track 6 : WalterMcMickey_82, Twister_83
- Track 7 : Topanga_72
- Track 8 : Kristoff_80, Rebeuca_83
- Track 9 : Jabith_91, Gilberta_89, Mabel_91, Aneem_92, Joselito_89, Bud_84, Bowtie_87, Timothy_91, Orange_91, Salz_87, Munch_90, Sham4_88, Et2Brutus_91, Ebony_90, Flaverint_92, Petersenfast_85, Snape_91, Fibonacci_91, Hutc2_88, TinyTimmy_89, Lucivia_92, Mulciber_90, Insomnia_91, MaCh_91
- Track 10 : Bachome_89
- Track 11 : Steamy_79
- Track 12 : DarthPhader_81
- Track 13 : Zimmer_82
- Track 14 : Refuge_83
- Track 15 : SororFago_87
- Track 16 : Jeeves_90
- Track 17 : Luchador_87
- Track 18 : Gail_90
- Track 19 : 40AC_85
- Track 20 : Kimona_84
- Track 21 : Superchunk_89, Caraxes_90
- Track 22 : Kerberos_90, Pomar16_90, Tomathan_90, Duplo_91, StarStuff_90, DBQu4n_90
- Track 23 : LilTurb_89, AbbyPaige_90, Turbido_89, Whabigail7_87
- Track 24 : Piro94_87
- Track 25 : WeiHuaDA_90
- Track 26 : MissWhite_83
- Track 27 : KingCyrus_87, ChipMunk_89, EvilGenius_88
- Track 28 : Updawg_89, WideWale_89, Equemioh13_88
- Track 29 : Changeling_87
- Track 30 : Kalpine_91
- Track 31 : TarsusIV_87
- Track 32 : GaugeLDP_84

- Track 33 : Bactobuster_80
- Track 34 : XianYue_88
- Track 35 : BiancaTri92_86
- Track 36 : Che12_91
- Track 37 : HarryHoudini_88
- Track 38 : Malec_87, Larenn_87
- Track 39 : AN3_88, VA6_88
- Track 40 : Smeagan_91, Jerm_90, Miko_85, BobSwaget_83, Rachaly_86, LadyBird_92, Lokk_84
- Track 41 : DudeLittle_86, Anselm_90
- Track 42 : CRB1_89
- Track 43 : Jsquared_93
- Track 44 : Ph8s_91
- Track 45 : Drake55_89
- Track 46 : Journey13_72
- Track 47 : Landor_86
- Track 48 : SnapTap_88, Crucio_88, SemperFi_88, Georgie2_90, SweetiePie_88, Power_88
- Track 49 : Loser_91
- Track 50 : Benvolio_87, Leviathan_90, Echild_92
- Track 51 : Retro23_88
- Track 52 : L5_82
- Track 53 : AnnaL29_90
- Track 54 : JoshKayV_91
- Track 55 : NothingSpecial_83
- Track 56 : Dalmatian_88
- Track 57 : FiringLine_88, QueenBeesly_88
- Track 58 : EZMoney23_84
- Track 59 : QueenB2_85
- Track 60 : Koduck_89
- Track 61 : Baehexic_87, MiculUcigas_88, Centaur_88, Flare16_88
- Track 62 : BengiVuitton_90
- Track 63 : Dignity_90, Agape74_90
- Track 64 : Heffalump_85, Fameo_87
- Track 65 : Pukovnik_83
- Track 66 : Jaan_87
- Track 67 : NicoleTera_87
- Track 68 : TipsytheTRex_88
- Track 69 : Odin_88
- Track 70 : First_0089
- Track 71 : Trooper_88
- Track 72 : ArcherNM_84
- Track 73 : Trixie_88
- Track 74 : Serenity_92
- Track 75 : NaSiaTalie_89
- Track 76 : BabyBack_85
- Track 77 : Iwokeuplikedis_92
- Track 78 : Deloris_90, 20ES_90
- Track 79 : Phaded_82
- Track 80 : SwirlSquare_92
- Track 81 : Adzzy_90
- Track 82 : Colin_87
- Track 83 : RedRock_89

- Track 84 : Acolyte_82
- Track 85 : IronMan_85
- Track 86 : Anthony_83
- Track 87 : JHC117_81, Grum1_86, Hercules11_86, SoYo_83, Colbster_82, P28Green_86, Phoebe_87, Grif_84, HashRod_87, Beauxregard13_85, Tiffany_85, KADY_83, Sabinator_84, Rummer_85, Dieselweasel_87, LarryKay_86, Wooldri_88, Penny1_86, Soshari_88, Methuselah_79, EpicPhail_87, PotatoSplit_87, MarQuardt_86, Misomonster_82, Aglet_87, BuzzBuzz_80
- Track 88 : LugYA_89, Marie_84, JenCasNa_87, Taurus_87, MoneyMay_86, Fernando_87, Cullens_87
- Track 89 : Daishi_85, Louie6_85, Bxz2_81, AgronaGT15_78
- Track 90 : Zetzy_78
- Track 91 : Stagni_83
- Track 92 : Kalb97_87, Heliosoles_84, HaveUMetTed_87, Groupthink_87, PhishRPhriends_83, Phranny_79, Pawn_85, Marius_87, Manu_86, Kalnoky_87, JeppNRM_87, Reba_82
- Track 93 : Todacoro_85, Veracruz_82, Panamaxus_81, ResDef_83, Texage_83, QuinnKiro_84, Margo_85
- Track 94 : Noella_86, Hookmount_85, Caviar_74, Popcicle_85, Norbert_81, Pocahontas_84, Lambert1_85
- Track 95 : Microwolf_82, Snickers_82, GtownJaz_86, Mainiac_85, Sabia_84, PGHhamlin_88, Pembroke_86, Watson_85, BreSam8_86, Jobu08_82, Malinsilva_89, SoilDragon_86, Spike509_86, Grub_84, MadMarie_84, LBerry_87, Ollie_86, Lilith_84, DaHudson_85
- Track 96 : Giroux_84, Bugatti_87, Puppy_87, Pistachio_86, SaturnRing_87, TNguyen7_87, BlueBird_88
- Track 97 : Fred313_83, HelDan_85, Heathen_85
- Track 98 : OlanP_85, Gemma_84
- Track 99 : Isca_81
- Track 100 : StepMih_86
- Track 101 : BabyRay_85
- Track 102 : Scout_85
- Track 103 : Rockstar_73
- Track 104 : Vix_82, GingkoMaracino_86
- Track 105 : Anubis_90
- Track 106 : Phantastic_86
- Track 107 : Eurydice_84, Romney_82, NorthStar_80, ICleared_82, Wilbur_83, BangNhom_80, Phelipe_83, Jaykayelowell_80, Nebs_84, CentreCat_83, SheldonCooper_83, Cerulean_85, Relief_82, LochMonster_84, Scamp_83, ChampagnePapi_86, Kyee_83, Sparxx_84, LittleB_83, Spino_82, Ruin_83, JetBlade_84, Sabertooth_83, PeterPeter_83, Ohfah_84, Citius_83, Abdiel_82, Lemur_83, TroyPia_84, Lunsford_83, Skipitt_82
- Track 108 : Arturo_80, Burger_81, Albee_83, Taquarus_82, OKaNui_82, Connomayer_83, Alberto7_84, LHTSCC_85, Deano_80, Obama12_84, LittleGuy_83, Polymorphads_84, Florean_83, LappelDuVide_79, Medusa_82, Annyong_82, BubbleTrouble_82, Baby16_83, YoSam321_83, Blackmoor_82, Commander_81, Roosevelt_81, Phontbonne_83, TiroTheta9_82, KFPoly_82, BellusTerra_83, Holli_82, Broseidon_83, TinaFeyge_81, Iceman_81, Eros_83, HamSlice_79, Dhanush_83, Morrow_85, Bartimeaus_83, Clarenza_82
- Track 109 : Happiness_82
- Track 110 : Chaph_83, Pumbaa_83, Koreni_82, Mazhar510_83, JoongJeon_82, Melvin_85, Bombshell_83, Eris_82, Funston_82, Caelakin_81, Lorenzo_83, Bruiser_82, Nyxis_82, Eagle_82, Palestino_82, Maverick_82, Houdini22_82,

Ulysses_82, TygerBlood_83, Pipcraft_79, Avle17_83, Phacado_83, NotAPhaseMom_82, Peaches_81, Gadost_83, Nemo27_82, Kingmustik0402_83, Wander_83, Cocoaberry_83

- Track 111 : Shygu2_81
- Track 112 : Miramae_83, Stink_83, AvatarAhPeg_83
- Track 113 : Perplexer_79, Wile_78, Morpher26_79, Druantia_81, Katalie136_79, AbbysRanger_79, Backyardigan_77, Wizard007_79, Badger_78, Bumblebee11_78, Cici_79, PetiteSangsue_79
- Track 114 : Achebe_78
- Track 115 : Stasia_80
- Track 116 : Millski_82, Thanksgivukkah_82, MeeZee_82
- Track 117 : Mundrea_81
- Track 118 : Eapen_83, Shaka_81
- Track 119 : Maxo_85, Flux_84, Kampy_82
- Track 120 : Phighter1804_83, Kratark_82, Kremtemulon_77
- Track 121 : Noelle_80
- Track 122 : Camperdownii_79
- Track 123 : Datway_80
- Track 124 : DirtyDunning_82
- Track 125 : Cindaradix_78
- Track 126 : Xena_79
- Track 127 : Tinybot_82
- Track 128 : Cintron_83
- Track 129 : Iracema64_83
- Track 130 : DaVinci_89, McFly_91, Neeharika16_90, Jordennis_89, Cookiedough_91, Pmask_90, EricB_89, SuperAwesome_91, Newrala_90, Chartreuse_89, Dorothea_88, BABullseye_84, Candra_89, Isiphiwo_87, Kipper29_91, VohminGhazi_91, JewelBug_83, Kazan_92, Hoot_86, SmellyB_91, GreedyLawyer_84
- Track 131 : Yokurt_92, Indra_96, Rifter_93, Wiks_92, Artemis2UCLA_92, Blue7_94, Hexamo_92, Jeffabunny_81, Gruunaga_93, Koko_94, Hammer_93, Zulu_94, Zaka_93, ToneTone_90, Tucker_93, Gladiator_89, CloudWang3_93
- Track 132 : Priamo_92
- Track 133 : Garak_94, Lilbunny_87, Roksolana_93, Helmet_94
- Track 134 : SuperCallie99_87
- Track 135 : Blinn1_93
- Track 136 : Sheen_81
- Track 137 : Timshel_80, DroogsArmy_79
- Track 138 : PP_01
- Track 139 : HINdeR_79
- Track 140 : Scherzo_89, HortumSL17_92, Qobbit_89, Fayely_89, Tubs_91, Aliter_84, Catalina_93, Eidsmoe_89, EmyBug_88, Conquerage_89, Phaeder_91, Priya_89, Myxus_91, PackMan_86
- Track 141 : Beemo_91, Ugenie5_78, Spouty_86, Pioneer_91, ExplosioNervosa_89, Phonnegut_91
- Track 142 : Keziacharles14_88
- Track 143 : Arissanae_86
- Track 144 : Darrell_89
- Track 145 : SheaKeira_86
- Track 146 : Vanisoa_86
- Track 147 : Maminiaina_90, BogosyJay_90
- Track 148 : Elephantoon_91
- Track 149 : LoneWolf_91

- Track 150 : DreamTeam1_86
- Track 151 : Yecey3_92
- Track 152 : Alma_89
- Track 153 : Rahalelujah_90
- Track 154 : Toaka_89
- Track 155 : Charm_86
- Track 156 : Phrappuccino_6, Settecandela_6
- Track 157 : RGL3_54
- Track 158 : Aminay_76
- Track 159 : Dulcita_147, LilhomieP_146, Diminimus_147, Glaske16_149, PegLeg_150, Bricole_152, Skinny_153, Bongo_144
- Track 160 : SlimJimmy_147, IPhane7_147, TyDawg_143, Auspice_150
- Track 161 : Reindeer_148
- Track 162 : Aziz_162
- Track 163 : Estes_162
- Track 164 : Rey_165
- Track 165 : MrMagoo_167
- Track 166 : Nanosmite_164
- Track 167 : Kumao_107

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

The start number called the most often in the published annotations is 82, it was called in 302 of the 472 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES_90, AN3_88, AbbyPaige_90, AbbysRanger_79, Abdiel_82, Achebe_78, Agape74_90, Aglet_87, AgronaGT15_78, Albee_83, Alberto7_84, Aneem_92, Annyong_82, Anselm_90, Anthony_83, ArcherNM_84, Arissanae_86, Arturo_80, AvatarAhPeg_83, Avle17_83, Baby16_83, Bachome_89, Backyardigan_77, Badger_78, Baehexic_87, BangNhom_80, Bartimeaus_83, Beauxregard13_85, BellusTerra_83, BengiVuitton_90, Benvolio_87, BiancaTri92_86, Blackmoor_82, BobSwaget_83, BogosyJay_90, Bombshell_83, Bowtie_87, BreSam8_86, Broseidon_83, Bruiser_82, BubbleTrouble_82, Bud_84, Bumblebee11_78, Burger_81, BuzzBuzz_80, Bxz2_81, CRB1_89, Caelakin_81, Camperdownii_79, Centaur_88, CentreCat_83, Cerulean_85, ChampagnePapi_86, Changeling_87, Chaph_83, Chargerpower_88, Charm_86, ChipMunk_89, Cici_79, Cindaradix_78, Cintron_83, Citius_83, Clarenza_82, Cocoaberry_83, Colbster_82, Colin_87, Commander_81, Connomayer_83, Crucio_88, Cullens_87, DaHudson_85, Daishi_85, Dalmatian_88, Darrell_89, Datway_80, Deano_80, Deloris_90, Dhanush_83, Dieselweasel_87, Dignity_90, DirtyDunning_82, Drake55_89, DreamTeam1_86, Druantia_81, DudeLittle_86, EZMoney23_84, Eagle_82, Eapen_83, Ebony_90, Echild_92, Elephantoon_91, EpicPhail_87, Equemioh13_88, Eris_82, Eros_83, Et2Brutus_91, Eurydice_84, EvilGenius_88, Fameo_87, Fernando_87, Fibonacci_91, FiringLine_88, First_0089, Flare16_88, Flaverint_92, Florean_83, Flux_84, Funston_82, Gadost_83, Gail_90, Gemma_84, Georgie2_90, Gilberta_89, Grif_84, Groupthink_87, Grub_84, Grum1_86, GtownJaz_86, HamSlice_79, Happiness_82, HarryHoudini_88, HashRod_87, HaveUMetTed_87, Heffalump_85, Heliosoles_84, Hercules11_86, Holli_82, Houdini22_82, Hutc2_88, ICleared_82, Iceman_81, Insomnia_91, Iracema64_83, JHC117_81, Jabith_91,

Jaykayelowell_80, Jeeves_90, JenCasNa_87, JeppNRM_87, Jerm_90, JetBlade_84, Jobu08_82, JoongJeon_82, Joselito_89, JoshKayV_91, KADY_83, KFPoly_82, Kalb97_87, Kalnoky_87, Kalpine_91, Kampy_82, Katalie136_79, Keziacharles14_88, KingCyrus_87, Kingmustik0402_83, Koreni_82, Kratak_82, Kremtemulon_77, Kumao_107, Kyee_83, LBerry_87, LHTSCC_85, LadyBird_92, LappelDuVide_79, Larenn_87, LarryKay_86, Lemur_83, Leviathan_90, LilTurb_89, Lilith_84, LittleB_83, LittleGuy_83, LochMonster_84, Lokk_84, Lorenzo_83, Louie6_85, Luchador_87, Lucivia_92, LugYA_89, Lunsford_83, MaCh_91, Mabel_91, MadMarie_84, Mainiac_85, Malec_87, Malinsilva_89, Maminiaina_90, Manu_86, MarQuardt_86, Marie_84, Marius_87, Maverick_82, Maxo_85, Mazhar510_83, Medusa_82, MeeZee_82, Melvin_85, Methuselah_79, Microwolf_82, MiculUcigas_88, Miko_85, Millski_82, Miramae_83, Misomonster_82, MissWhite_83, MoneyMay_86, Morpher26_79, Morrow_85, Mulciber_90, Munch_90, Mundrea_81, NaSiaTalie_89, Nebs_84, Nemo27_82, NicoleTera_87, Noelle_80, NorthStar_80, NotAPhaseMom_82, Nyxis_82, OKaNui_82, Obama12_84, Ohfah_84, OlanP_85, Ollie_86, Orange_91, P28Green_86, PGHhamlin_88, Palestino_82, Pawn_85, Peaches_81, Pembroke_86, Penny1_86, Perplexer_79, PeterPeter_83, Petersenfast_85, PetiteSangsue_79, Phacado_83, Phelipe_83, Phighter1804_83, PhishRPhriends_83, Phoebe_87, Phontbonne_83, Phranny_79, Pipcraft_79, Piro94_87, Polymorphads_84, PotatoSplit_87, Power_88, Pumbaa_83, QueenB2_85, QueenBeesly_88, RGL3_54, Rachaly_86, Rahalelujah_90, Reba_82, Relief_82, Retro23_88, Romney_82, Roosevelt_81, Ruin_83, Rummer_85, Sabertooth_83, Sabia_84, Sabinator_84, Salz_87, Scamp_83, SemperFi_88, Shaka_81, Sham4_88, SheaKeira_86, SheldonCooper_83, Shygu2_81, Skipitt_82, Smeagan_91, SnapTap_88, Snape_91, Snickers_82, SoYo_83, SoilDragon_86, SororFago_87, Soshari_88, Sparxx_84, Spike509_86, Spino_82, Stink_83, SweetiePie_88, Taquarus_82, TarsusIV_87, Taurus_87, Thanksgivukkah_82, Tiffany_85, Timothy_91, TinaFeyge_81, TinyTimmy_89, Tinybot_82, TiroTheta9_82, Toaka_89, Trixie_88, TroyPia_84, Turbido_89, TygerBlood_83, Ulysses_82, Updawg_89, VA6_88, Wander_83, Watson_85, WeiHuaDA_90, Whabigail7_87, WideWale_89, Wilbur_83, Wile_78, Wizard007_79, Wooldri_88, Xena_79, Yecey3_92, YoSam321_83,

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

- Anubis_90, GingkoMaracino_86, Stagni_83, StepMih_86, Vanisoa_86, Vix_82,

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

- 40AC_85, Acolyte_82, Adzzy_90, Aliter_84, Alma_89, Aminay_76, AnnaL29_90, Artemis2UCLA_92, Auspice_150, Aziz_162, BABullseye_84, BabyBack_85, BabyRay_85, Bactobuster_80, Beemo_91, Blinn1_93, Blue7_94, BlueBird_88, Bongo_144, Bricole_152, Bugatti_87, Candra_89, Caraxes_90, Catalina_93, Caviar_74, Chartreuse_89, Che12_91, Chupacabra_79, CloudWang3_93, Conquerage_89, Cookiedough_91, DBQu4n_90, DaVinci_89, DarthPhader_81, Diminimus_147, Dorothea_88, Drake94_79, DroogsArmy_79, Dulcita_147, Duplo_91, Eaglepride_85, Eidsmoe_89, EmyBug_88, EricB_89, Estes_162, ExplosioNervosa_89, Fayely_89, Fred313_83, Garak_94, GaugeLDP_84, Giroux_84, Gladiator_89, Glaske16_149, Goose_83, GreedyLawyer_84, Gruunaga_93, HINdeR_79, Hammer_93, Heathen_85, HelDan_85, Helmet_94, Hexamo_92, Hookmount_85, Hoot_86, HortumSL17_92, IPHane7_147, Indra_96, IronMan_85, Isca_81, Isiphiwo_87, Iwokeuplikedis_92, Jaan_87, Jeffabunny_81, JewelBug_83, Jordennis_89, Journey13_72, Jsquared_93, Kazan_92, Kerberos_90, Kimona_84, Kipper29_91, KittenMittens_77, Koduck_89, Koko_94, Kristoff_80, L5_82, Lambert1_85, Landor_86, Lilbunny_87, LilhomieP_146, LoneWolf_91, Loser_91,

Margo_85, McFly_91, MrMagoo_167, Myxus_91, Nanosmite_164, Neeharika16_90, Newwala_90, Noella_86, Norbert_81, NothingSpecial_83, OKCentral2016_81, Odin_88, PP_01, PackMan_86, Panamaxus_81, PeaceMeal1_79, PegLeg_150, Ph8s_91, Phaded_82, Phaeder_91, Phantastic_86, Phonnegut_91, Phrappuccino_6, Pioneer_91, Pistachio_86, Pmask_90, Pocahontas_84, Pomar16_90, Poompha_79, Popcicle_85, Priamo_92, Priya_89, Pukovnik_83, Puppy_87, Qobbit_89, QuinnKiro_84, Rebeuca_83, RedRock_89, Refuge_83, Reindeer_148, ResDef_83, Rey_165, RhynO_70, Rifter_93, Rockstar_73, Roksolana_93, SaturnRing_87, Scherzo_89, Scout_85, Serenity_92, Settecandela_6, Severus_80, Sheen_81, Skinny_153, SlimJimmy_147, SmellyB_91, Spouty_86, StarStuff_90, Stasia_80, Steamy_79, SuperAwesome_91, SuperCallie99_87, Superchunk_89, SwirlSquare_92, TNguyen7_87, Texage_83, Timshel_80, TipsytheTRex_88, Todacoro_85, Tomathan_90, ToneTone_90, Topanga_72, Trooper_88, Tubs_91, Tucker_93, Twister_83, TyDawg_143, Ugenie5_78, Veracruz_82, VohminGhazi_91, WalterMcMickey_82, Wiks_92, XianYue_88, Yokurt_92, Zaka_93, Zetzy_78, Zimmer_82, Zulu_94,

Summary by start number:

Start 43:

- Found in 3 of 502 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 472
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnnaL29_90 (A2), Loser_91 (A2), RedRock_89 (A2),

Start 54:

- Found in 8 of 502 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 472
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Phaded_82 (A2),

Start 58:

- Found in 16 of 502 (3.2%) of genes in pham
- Manual Annotations of this start: 7 of 472
- Called 43.8% of time when present
- Phage (with cluster) where this start called: Caviar_74 (A3), Hookmount_85 (A3), Lambert1_85 (A3), Noella_86 (A3), Norbert_81 (A3), Pocahontas_84 (A3), Popcicle_85 (A3),

Start 59:

- Found in 18 of 502 (3.6%) of genes in pham
- Manual Annotations of this start: 18 of 472
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Auspice_150 (M1), Aziz_162 (M2), Bongo_144 (M1), Bricole_152 (M1), Diminimus_147 (M1), Dulcita_147 (M1), Estes_162 (M2), Glaske16_149 (M1), IPhane7_147 (M1), LilhomieP_146 (M1), MrMagoo_167 (M2), Nanosmite_164 (M3), PegLeg_150 (M1), Reindeer_148 (M1), Rey_165 (M2), Skinny_153 (M1), SlimJimmy_147 (M1), TyDawg_143 (M1),

Start 60:

- Found in 5 of 502 (1.0%) of genes in pham
- Manual Annotations of this start: 5 of 472

- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabyRay_85 (A3), Isca_81 (A3), Phantastic_86 (A3), Rockstar_73 (A3), Zetzy_78 (A3),

Start 62:

- Found in 12 of 502 (2.4%) of genes in pham
- Manual Annotations of this start: 8 of 472
- Called 91.7% of time when present
- Phage (with cluster) where this start called: BlueBird_88 (A3), Bugatti_87 (A3), Fred313_83 (A3), Giroux_84 (A3), Heathen_85 (A3), HelDan_85 (A3), Pistachio_86 (A3), Puppy_87 (A3), SaturnRing_87 (A3), Scout_85 (A3), TNguyen7_87 (A3),

Start 63:

- Found in 15 of 502 (3.0%) of genes in pham
- Manual Annotations of this start: 6 of 472
- Called 46.7% of time when present
- Phage (with cluster) where this start called: Margo_85 (A3), Panamaxus_81 (A3), QuinnKiro_84 (A3), ResDef_83 (A3), Texage_83 (A3), Todacoro_85 (A3), Veracruz_82 (A3),

Start 64:

- Found in 6 of 502 (1.2%) of genes in pham
- Manual Annotations of this start: 6 of 472
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DroogsArmy_79 (A7), HINdeR_79 (A7), Kimona_84 (A19), PP_01 (A7), Sheen_81 (A7), Timshel_80 (A7),

Start 65:

- Found in 17 of 502 (3.4%) of genes in pham
- Manual Annotations of this start: 16 of 472
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Chupacabra_79 (A10), Drake94_79 (A10), Eaglepride_85 (A10), Goose_83 (A10), KittenMittens_77 (A10), Kristoff_80 (A10), OKCentral2016_81 (A10), PeaceMeal1_79 (A10), Poompha_79 (A10), Rebeuca_83 (A10), RhynO_70 (A10), Severus_80 (A10), Stasia_80 (A4), Topanga_72 (A10), Twister_83 (A10), WalterMcMickey_82 (A10),

Start 67:

- Found in 22 of 502 (4.4%) of genes in pham
- Manual Annotations of this start: 1 of 472
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Stagni_83 (A3),

Start 68:

- Found in 7 of 502 (1.4%) of genes in pham
- Manual Annotations of this start: 6 of 472
- Called 85.7% of time when present
- Phage (with cluster) where this start called: BabyBack_85 (A2), GaugeLDP_84 (A2), Iwokeuplikedis_92 (A2), Jaan_87 (A2), Journey13_72 (A2), Pukovnik_83 (A2),

Start 69:

- Found in 4 of 502 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 472

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bactobuster_80 (A2), Landor_86 (A2),

Start 71:

- Found in 3 of 502 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 472
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay_76 (K7), Phrappuccino_6 (AA), Settecandela_6 (AA),

Start 72:

- Found in 2 of 502 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 472
- Called 100.0% of time when present
- Phage (with cluster) where this start called: L5_82 (A2), SwirlSquare_92 (A2),

Start 74:

- Found in 1 of 502 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 472
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Steamy_79 (A12),

Start 76:

- Found in 116 of 502 (23.1%) of genes in pham
- Manual Annotations of this start: 59 of 472
- Called 56.0% of time when present
- Phage (with cluster) where this start called: 40AC_85 (A17), Acolyte_82 (A2), Adzzy_90 (A2), Artemis2UCLA_92 (A6), BABullseye_84 (A6), Blinn1_93 (A6), Blue7_94 (A6), Candra_89 (A6), Caraxes_90 (A2), Chartreuse_89 (A6), Che12_91 (A2), CloudWang3_93 (A6), Cookiedough_91 (A6), DBQu4n_90 (A2), DaVinci_89 (A6), DARTHPhader_81 (A12), Dorothea_88 (A6), Duplo_91 (A2), EricB_89 (A6), Gladiator_89 (A6), GreedyLawyer_84 (A6), Gruunaga_93 (A6), Hammer_93 (A6), Hexamo_92 (A6), Hoot_86 (A6), Indra_96 (A6), Isiphiwo_87 (A6), Jeffabunny_81 (A6), JewelBug_83 (A6), Jordennis_89 (A6), Jsquared_93 (A2), Kazan_92 (A6), Kerberos_90 (A2), Kipper29_91 (A6), Koduck_89 (A2), Koko_94 (A6), McFly_91 (A6), Neeharika16_90 (A6), Newrala_90 (A6), NothingSpecial_83 (A2), Odin_88 (A2), Ph8s_91 (A2), Pmask_90 (A6), Pomar16_90 (A2), Priamo_92 (A6), Refuge_83 (A12), Rifter_93 (A6), Serenity_92 (A2), SmellyB_91 (A6), StarStuff_90 (A2), SuperAwesome_91 (A6), SuperCallie99_87 (A6), Superchunk_89 (A2), TopsytheTRex_88 (A2), Tomathan_90 (A2), ToneTone_90 (A6), Trooper_88 (A2), Tucker_93 (A6), VohminGhazi_91 (A6), Wiks_92 (A6), XianYue_88 (A2), Yokurt_92 (A6), Zaka_93 (A6), Zimmer_82 (A12), Zulu_94 (A6),

Start 79:

- Found in 63 of 502 (12.5%) of genes in pham
- Manual Annotations of this start: 4 of 472
- Called 6.3% of time when present
- Phage (with cluster) where this start called: Alma_89 (A9), GingkoMaracino_86 (A3), StepMih_86 (A3), Vix_82 (A3),

Start 80:

- Found in 80 of 502 (15.9%) of genes in pham
- Manual Annotations of this start: 14 of 472

- Called 17.5% of time when present
- Phage (with cluster) where this start called: Aliter_84 (A9), Catalina_93 (A9), Conquerage_89 (A9), Eidsmoe_89 (A9), EmyBug_88 (A9), Fayely_89 (A9), HortumSL17_92 (A9), Myxus_91 (A9), PackMan_86 (A9), Phaeder_91 (A9), Priya_89 (A9), Qobbit_89 (A9), Scherzo_89 (A9), Tubs_91 (A9),

Start 81:

- Found in 1 of 502 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 472
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LoneWolf_91 (A9),

Start 82:

- Found in 322 of 502 (64.1%) of genes in pham
- Manual Annotations of this start: 302 of 472
- Called 98.1% of time when present
- Phage (with cluster) where this start called: 20ES_90 (A2), AN3_88 (A2), AbbyPaige_90 (A2), AbbysRanger_79 (A4), Abdiel_82 (A4), Achebe_78 (A4), Agape74_90 (A2), Aglet_87 (A3), AgronaGT15_78 (A3), Albee_83 (A4), Alberto7_84 (A4), Aneem_92 (A11), Annyong_82 (A4), Anselm_90 (A2), Anthony_83 (A20), ArcherNM_84 (A2), Arissanae_86 (A9), Arturo_80 (A4), AvatarAhPeg_83 (A4), Avle17_83 (A4), Baby16_83 (A4), Bachome_89 (A11), Backyardigan_77 (A4), Badger_78 (A4), Baehexic_87 (A2), BangNhom_80 (A4), Bartimeaus_83 (A4), Beauxregard13_85 (A3), BellusTerra_83 (A4), BengiVuitton_90 (A2), Benvolio_87 (A2), BiancaTri92_86 (A2), Blackmoor_82 (A4), BobSwaget_83 (A2), BogosyJay_90 (A9), Bombshell_83 (A4), Bowtie_87 (A11), BreSam8_86 (A3), Broseidon_83 (A4), Bruiser_82 (A4), BubbleTrouble_82 (A4), Bud_84 (A11), Bumblebee11_78 (A4), Burger_81 (A4), BuzzBuzz_80 (A3), Bxz2_81 (A3), CRB1_89 (A2), Caelakin_81 (A4), Camperdownii_79 (A4), Centaur_88 (A2), CentreCat_83 (A4), Cerulean_85 (A4), ChampagnePapi_86 (A4), Changeling_87 (A2), Chaph_83 (A4), Chargerpower_88 (A), Charm_86 (A9), ChipMunk_89 (A2), Cici_79 (A4), Cindaradix_78 (A4), Cintron_83 (A4), Citius_83 (A4), Clarenza_82 (A4), Cocoaberry_83 (A4), Colbster_82 (A3), Colin_87 (A2), Commander_81 (A4), Connomayer_83 (A4), Crucio_88 (A2), Cullens_87 (A3), DaHudson_85 (A3), Daishi_85 (A3), Dalmatian_88 (A2), Darrell_89 (A9), Datway_80 (A4), Deano_80 (A4), Deloris_90 (A2), Dhanush_83 (A4), Dieselweasel_87 (A3), Dignity_90 (A2), DirtyDunning_82 (A4), Drake55_89 (A2), DreamTeam1_86 (A9), Druantia_81 (A4), DudeLittle_86 (A2), EZMoney23_84 (A2), Eagle_82 (A4), Eapen_83 (A4), Ebony_90 (A11), Echild_92 (A2), Elephantoon_91 (A9), EpicPhail_87 (A3), Equemioh13_88 (A2), Eris_82 (A4), Eros_83 (A4), Et2Brutus_91 (A11), Eurydice_84 (A4), EvilGenius_88 (A2), Fameo_87 (A2), Fernando_87 (A3), Fibonacci_91 (A11), FiringLine_88 (A2), First_0089 (A2), Flare16_88 (A2), Flaverint_92 (A11), Florean_83 (A4), Flux_84 (A4), Funston_82 (A4), Gadost_83 (A4), Gail_90 (A14), Gemma_84 (A3), Georgie2_90 (A2), Gilberta_89 (A11), Grif_84 (A3), Groupthink_87 (A3), Grub_84 (A3), Grum1_86 (A3), GtownJaz_86 (A3), HamSlice_79 (A4), Happiness_82 (A4), HarryHoudini_88 (A2), HashRod_87 (A3), HaveUMetTed_87 (A3), Heffalump_85 (A2), Heliosoles_84 (A3), Hercules11_86 (A3), Holli_82 (A4), Houdini22_82 (A4), Hutc2_88 (A11), ICleared_82 (A4), Iceman_81 (A4), Insomnia_91 (A11), Iracema64_83 (A4), JHC117_81 (A3), Jabith_91 (A11), Jaykayelowell_80 (A4), Jeeves_90 (A14), JenCasNa_87 (A3), JeppNRM_87 (A3), Jerm_90 (A2), JetBlade_84 (A4), Jobu08_82 (A3), JoongJeon_82 (A4), Joselito_89 (A11), JoshKayV_91 (A2), KADY_83 (A3), KFPoly_82 (A4), Kalb97_87 (A3), Kalnoky_87 (A3), Kalpine_91 (A2), Kampy_82 (A4), Katalie136_79 (A4), Keziacharles14_88 (A9), KingCyrus_87 (A2), Kingmustik0402_83 (A4),

Koreni_82 (A4), Kratak_82 (A4), Kremtemulon_77 (A4), Kumao_107 (singleton), Kyee_83 (A4), LBerry_87 (A3), LHTSCC_85 (A4), LadyBird_92 (A2), LappelDuVide_79 (A4), Larenn_87 (A2), LarryKay_86 (A3), Lemur_83 (A4), Leviathan_90 (A2), LiITurb_89 (A2), Lilith_84 (A3), LittleB_83 (A4), LittleGuy_83 (A4), LochMonster_84 (A4), Lokk_84 (A2), Lorenzo_83 (A4), Louie6_85 (A3), Luchador_87 (A14), Lucivia_92 (A11), LugYA_89 (A3), Lunsford_83 (A4), MaCh_91 (A11), Mabel_91 (A11), MadMarie_84 (A3), Mainiac_85 (A3), Malec_87 (A2), Malinsilva_89 (A3), Maminiaina_90 (A9), Manu_86 (A3), MarQuardt_86 (A3), Marie_84 (A3), Marius_87 (A3), Maverick_82 (A4), Maxo_85 (A4), Mazhar510_83 (A4), Medusa_82 (A4), MeeZee_82 (A4), Melvin_85 (A4), Methuselah_79 (A3), Microwolf_82 (A3), MiculUcigas_88 (A2), Miko_85 (A2), Millski_82 (A4), Miramae_83 (A4), Misomonster_82 (A3), MissWhite_83 (A2), MoneyMay_86 (A3), Morpher26_79 (A4), Morrow_85 (A4), Mulciber_90 (A11), Munch_90 (A11), Mundrea_81 (A4), NaSiaTalie_89 (A2), Nebs_84 (A4), Nemo27_82 (A4), NicoleTera_87 (A2), Noelle_80 (A4), NorthStar_80 (A4), NotAPhaseMom_82 (A4), Nyxis_82 (A4), OKaNui_82 (A4), Obama12_84 (A4), Ohfah_84 (A4), OlanP_85 (A3), Ollie_86 (A3), Orange_91 (A11), P28Green_86 (A3), PGHhamlin_88 (A3), Palestino_82 (A4), Pawn_85 (A3), Peaches_81 (A4), Pembroke_86 (A3), Penny1_86 (A3), Perplexer_79 (A4), PeterPeter_83 (A4), Petersenfast_85 (A11), PetiteSangsue_79 (A4), Phacado_83 (A4), Phelipe_83 (A4), Phighter1804_83 (A4), PhishRPhriends_83 (A3), Phoebe_87 (A3), Phontbonne_83 (A4), Phranny_79 (A3), Pipcraft_79 (A4), Piro94_87 (A2), Polymorphads_84 (A4), PotatoSplit_87 (A3), Power_88 (A2), Pumbaa_83 (A4), QueenB2_85 (A2), QueenBeesly_88 (A2), RGL3_54 (CA), Rachaly_86 (A2), Rahalelujah_90 (A9), Reba_82 (A3), Relief_82 (A4), Retro23_88 (A2), Romney_82 (A4), Roosevelt_81 (A4), Ruin_83 (A4), Rummer_85 (A3), Sabertooth_83 (A4), Sabia_84 (A3), Sabinator_84 (A3), Salz_87 (A11), Scamp_83 (A4), SemperFi_88 (A2), Shaka_81 (A4), Sham4_88 (A11), SheaKeira_86 (A9), SheldonCooper_83 (A4), Shygu2_81 (A4), Skipitt_82 (A4), Smeagan_91 (A2), SnapTap_88 (A2), Snape_91 (A11), Snickers_82 (A3), SoYo_83 (A3), SoilDragon_86 (A3), SororFago_87 (A14), Soshari_88 (A3), Sparxx_84 (A4), Spike509_86 (A3), Spino_82 (A4), Stink_83 (A4), SweetiePie_88 (A2), Taquarus_82 (A4), TarsusIV_87 (A2), Taurus_87 (A3), Thanksgivukkah_82 (A4), Tiffany_85 (A3), Timothy_91 (A11), TinaFeyge_81 (A4), TinyTimmy_89 (A11), Tinybot_82 (A4), TiroTheta9_82 (A4), Toaka_89 (A9), Trixie_88 (A2), TroyPia_84 (A4), Turbido_89 (A2), TygerBlood_83 (A4), Ulysses_82 (A4), Updawg_89 (A2), VA6_88 (A2), Wander_83 (A4), Watson_85 (A3), WeiHuaDA_90 (A2), Whabigail7_87 (A2), WideWale_89 (A2), Wilbur_83 (A4), Wile_78 (A4), Wizard007_79 (A4), Wooldri_88 (A3), Xena_79 (A4), Yecey3_92 (A9), YoSam321_83 (A4),

Start 84:

- Found in 133 of 502 (26.5%) of genes in pham
- Manual Annotations of this start: 8 of 472
- Called 9.0% of time when present
- Phage (with cluster) where this start called: Anubis_90 (A3), Beemo_91 (A9), ExplosioNervosa_89 (A9), Garak_94 (A6), Helmet_94 (A6), IronMan_85 (A2), Lilbunny_87 (A6), Phonnegut_91 (A9), Pioneer_91 (A9), Roksolana_93 (A6), Spouty_86 (A9), Ugenie5_78 (A9),

Start 89:

- Found in 303 of 502 (60.4%) of genes in pham
- Manual Annotations of this start: 1 of 472
- Called 0.3% of time when present
- Phage (with cluster) where this start called: Vanisoa_86 (A9),

Summary by clusters:

There are 21 clusters represented in this pham: A20, AA, singleton, A11, A10, A, A14, CA, M2, A19, A17, A12, A3, A2, M1, A4, A7, A6, A9, K7, M3,

Info for manual annotations of cluster A:

- Start number 82 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A10:

- Start number 65 was manually annotated 15 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 82 was manually annotated 23 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 74 was manually annotated 1 time for cluster A12.
- Start number 76 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 82 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A19:

- Start number 64 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 43 was manually annotated 3 times for cluster A2.
- Start number 54 was manually annotated 1 time for cluster A2.
- Start number 68 was manually annotated 6 times for cluster A2.
- Start number 69 was manually annotated 1 time for cluster A2.
- Start number 72 was manually annotated 1 time for cluster A2.
- Start number 76 was manually annotated 18 times for cluster A2.
- Start number 82 was manually annotated 60 times for cluster A2.
- Start number 84 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:

- Start number 82 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 58 was manually annotated 7 times for cluster A3.
- Start number 60 was manually annotated 5 times for cluster A3.
- Start number 62 was manually annotated 8 times for cluster A3.
- Start number 63 was manually annotated 6 times for cluster A3.
- Start number 67 was manually annotated 1 time for cluster A3.
- Start number 79 was manually annotated 3 times for cluster A3.
- Start number 82 was manually annotated 68 times for cluster A3.
- Start number 84 was manually annotated 1 time for cluster A3.

Info for manual annotations of cluster A4:

- Start number 65 was manually annotated 1 time for cluster A4.
- Start number 82 was manually annotated 133 times for cluster A4.

Info for manual annotations of cluster A6:

- Start number 76 was manually annotated 38 times for cluster A6.
- Start number 84 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A7:

- Start number 64 was manually annotated 5 times for cluster A7.

Info for manual annotations of cluster A9:

- Start number 79 was manually annotated 1 time for cluster A9.
- Start number 80 was manually annotated 14 times for cluster A9.
- Start number 81 was manually annotated 1 time for cluster A9.
- Start number 82 was manually annotated 11 times for cluster A9.
- Start number 84 was manually annotated 5 times for cluster A9.
- Start number 89 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster AA:

- Start number 71 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster K7:

- Start number 71 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster M1:

- Start number 59 was manually annotated 13 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 59 was manually annotated 4 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 59 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: 20ES_90 Start: 49778, Stop: 49425, Start Num: 82

Candidate Starts for 20ES_90:

(Start: 82 @49778 has 302 MA's), (Start: 89 @49742 has 1 MA's), (97, 49676), (104, 49628), (117, 49562), (144, 49439),

Gene: 40AC_85 Start: 50012, Stop: 49629, Start Num: 76

Candidate Starts for 40AC_85:

(52, 50072), (61, 50042), (Start: 76 @50012 has 59 MA's), (Start: 84 @49991 has 8 MA's), (Start: 89 @49946 has 1 MA's), (90, 49934), (94, 49901), (96, 49880), (102, 49856), (104, 49829), (109, 49793), (110, 49790),

Gene: AN3_88 Start: 48036, Stop: 47689, Start Num: 82

Candidate Starts for AN3_88:

(15, 48150), (Start: 82 @48036 has 302 MA's), (Start: 89 @48000 has 1 MA's), (97, 47934), (101, 47922), (104, 47886), (117, 47820), (144, 47703),

Gene: AbbyPaige_90 Start: 49905, Stop: 49552, Start Num: 82

Candidate Starts for AbbyPaige_90:

(45, 50007), (47, 50001), (Start: 82 @49905 has 302 MA's), (Start: 89 @49869 has 1 MA's), (97, 49803), (104, 49755), (117, 49689), (144, 49566),

Gene: AbbysRanger_79 Start: 48052, Stop: 47699, Start Num: 82

Candidate Starts for AbbysRanger_79:

(Start: 82 @48052 has 302 MA's), (Start: 89 @48016 has 1 MA's), (96, 47953), (101, 47938), (103, 47926), (104, 47902), (112, 47854), (122, 47824), (142, 47728), (144, 47713),

Gene: Abdiel_82 Start: 48428, Stop: 48075, Start Num: 82

Candidate Starts for Abdiel_82:

(Start: 82 @48428 has 302 MA's), (Start: 89 @48392 has 1 MA's), (96, 48329), (117, 48212), (122, 48200), (142, 48104), (144, 48089),

Gene: Achebe_78 Start: 48031, Stop: 47678, Start Num: 82

Candidate Starts for Achebe_78:

(Start: 82 @48031 has 302 MA's), (Start: 89 @47995 has 1 MA's), (96, 47932), (104, 47881), (117, 47815), (122, 47803), (142, 47707), (144, 47692),

Gene: Acolyte_82 Start: 48841, Stop: 48461, Start Num: 76

Candidate Starts for Acolyte_82:

(Start: 76 @48841 has 59 MA's), (Start: 84 @48820 has 8 MA's), (94, 48730), (102, 48685), (103, 48682), (104, 48658), (109, 48622),

Gene: Adzzy_90 Start: 48766, Stop: 48386, Start Num: 76

Candidate Starts for Adzzy_90:

(70, 48772), (Start: 76 @48766 has 59 MA's), (Start: 84 @48745 has 8 MA's), (90, 48688), (93, 48679), (94, 48655), (96, 48634), (102, 48610), (107, 48562),

Gene: Agape74_90 Start: 49881, Stop: 49528, Start Num: 82

Candidate Starts for Agape74_90:

(13, 50133), (18, 50091), (45, 49983), (47, 49977), (Start: 82 @49881 has 302 MA's), (Start: 89 @49845 has 1 MA's), (97, 49779), (104, 49731), (117, 49665), (144, 49542),

Gene: Aglet_87 Start: 47779, Stop: 47396, Start Num: 82

Candidate Starts for Aglet_87:

(Start: 79 @47785 has 4 MA's), (Start: 80 @47782 has 14 MA's), (Start: 82 @47779 has 302 MA's), (88, 47737), (96, 47662), (97, 47659), (113, 47560), (123, 47530),

Gene: AgronaGT15_78 Start: 45756, Stop: 45373, Start Num: 82

Candidate Starts for AgronaGT15_78:

(Start: 79 @45762 has 4 MA's), (Start: 80 @45759 has 14 MA's), (Start: 82 @45756 has 302 MA's), (96, 45639), (97, 45636), (113, 45537), (123, 45507),

Gene: Albee_83 Start: 48416, Stop: 48063, Start Num: 82

Candidate Starts for Albee_83:

(Start: 82 @48416 has 302 MA's), (Start: 89 @48380 has 1 MA's), (122, 48188), (128, 48173), (142, 48092), (144, 48077),

Gene: Alberto7_84 Start: 48753, Stop: 48400, Start Num: 82

Candidate Starts for Alberto7_84:

(Start: 82 @48753 has 302 MA's), (Start: 89 @48717 has 1 MA's), (122, 48525), (128, 48510), (142, 48429), (144, 48414),

Gene: Aliter_84 Start: 46628, Stop: 46275, Start Num: 80

Candidate Starts for Aliter_84:

(Start: 80 @46628 has 14 MA's), (Start: 84 @46622 has 8 MA's), (Start: 89 @46592 has 1 MA's), (94, 46550), (96, 46529), (128, 46385), (144, 46289),

Gene: Alma_89 Start: 49473, Stop: 49117, Start Num: 79

Candidate Starts for Alma_89:

(Start: 76 @49482 has 59 MA's), (Start: 79 @49473 has 4 MA's), (Start: 80 @49470 has 14 MA's), (Start: 84 @49464 has 8 MA's), (Start: 89 @49434 has 1 MA's), (94, 49392), (96, 49371), (128, 49227), (144, 49131),

Gene: Aminay_76 Start: 49123, Stop: 49491, Start Num: 71

Candidate Starts for Aminay_76:

(Start: 71 @49123 has 3 MA's), (73, 49126), (87, 49171), (92, 49210), (94, 49225), (103, 49273), (108, 49321), (109, 49333), (110, 49336), (112, 49345), (120, 49375), (130, 49408), (131, 49432), (134, 49450), (136, 49456), (143, 49486),

Gene: Aneem_92 Start: 48945, Stop: 48592, Start Num: 82

Candidate Starts for Aneem_92:

(Start: 80 @48948 has 14 MA's), (Start: 82 @48945 has 302 MA's), (90, 48900), (94, 48867), (97, 48846), (101, 48831), (104, 48795), (118, 48726), (128, 48702), (144, 48606),

Gene: AnnaL29_90 Start: 49983, Stop: 49630, Start Num: 43

Candidate Starts for AnnaL29_90:

(Start: 43 @49983 has 3 MA's), (Start: 89 @49947 has 1 MA's), (97, 49881), (101, 49869), (104, 49833), (117, 49767), (118, 49764), (144, 49644),

Gene: Annyong_82 Start: 48461, Stop: 48108, Start Num: 82

Candidate Starts for Annyong_82:

(Start: 82 @48461 has 302 MA's), (Start: 89 @48425 has 1 MA's), (122, 48233), (128, 48218), (142, 48137), (144, 48122),

Gene: Anselm_90 Start: 49888, Stop: 49535, Start Num: 82

Candidate Starts for Anselm_90:

(Start: 82 @49888 has 302 MA's), (Start: 89 @49852 has 1 MA's), (90, 49843), (97, 49786), (104, 49738), (117, 49672), (144, 49549),

Gene: Anthony_83 Start: 48707, Stop: 48354, Start Num: 82

Candidate Starts for Anthony_83:

(Start: 82 @48707 has 302 MA's), (85, 48695), (94, 48629), (96, 48608), (97, 48605), (101, 48593), (109, 48521), (147, 48365),

Gene: Anubis_90 Start: 47664, Stop: 47287, Start Num: 84

Candidate Starts for Anubis_90:

(32, 47829), (55, 47739), (56, 47730), (Start: 67 @47700 has 1 MA's), (Start: 79 @47676 has 4 MA's), (Start: 82 @47670 has 302 MA's), (Start: 84 @47664 has 8 MA's), (88, 47628), (96, 47553), (97, 47550), (113, 47451), (123, 47421),

Gene: ArcherNM_84 Start: 49422, Stop: 49075, Start Num: 82

Candidate Starts for ArcherNM_84:

(Start: 82 @49422 has 302 MA's), (Start: 89 @49386 has 1 MA's), (97, 49320), (104, 49272), (117, 49206), (128, 49185), (144, 49089),

Gene: Arissanae_86 Start: 49335, Stop: 48982, Start Num: 82

Candidate Starts for Arissanae_86:

(20, 49536), (22, 49527), (61, 49380), (75, 49350), (Start: 82 @49335 has 302 MA's), (Start: 89 @49299 has 1 MA's), (94, 49257), (104, 49185), (117, 49119), (144, 48996),

Gene: Artemis2UCLA_92 Start: 48310, Stop: 47930, Start Num: 76

Candidate Starts for Artemis2UCLA_92:

(42, 48412), (Start: 76 @48310 has 59 MA's), (Start: 84 @48289 has 8 MA's), (Start: 89 @48244 has 1 MA's), (90, 48232), (96, 48178), (101, 48163), (102, 48154), (103, 48151), (109, 48091), (110, 48088), (133, 47998), (141, 47965),

Gene: Arturo_80 Start: 48544, Stop: 48191, Start Num: 82

Candidate Starts for Arturo_80:

(Start: 82 @48544 has 302 MA's), (Start: 89 @48508 has 1 MA's), (122, 48316), (128, 48301), (142, 48220), (144, 48205),

Gene: Auspice_150 Start: 76253, Stop: 75846, Start Num: 59

Candidate Starts for Auspice_150:

(46, 76304), (Start: 59 @76253 has 18 MA's), (94, 76127), (97, 76103), (102, 76082), (103, 76079), (113, 76004), (121, 75983), (135, 75899), (141, 75881),

Gene: AvatarAhPeg_83 Start: 48669, Stop: 48316, Start Num: 82

Candidate Starts for AvatarAhPeg_83:

(Start: 82 @48669 has 302 MA's), (Start: 89 @48633 has 1 MA's), (96, 48570), (104, 48519), (112, 48471), (113, 48468), (117, 48453), (122, 48441), (142, 48345), (144, 48330),

Gene: Avle17_83 Start: 48410, Stop: 48057, Start Num: 82

Candidate Starts for Avle17_83:

(Start: 82 @48410 has 302 MA's), (Start: 89 @48374 has 1 MA's), (96, 48311), (122, 48182), (128, 48167), (142, 48086), (144, 48071),

Gene: Aziz_162 Start: 78171, Stop: 77764, Start Num: 59

Candidate Starts for Aziz_162:

(37, 78252), (46, 78222), (Start: 59 @78171 has 18 MA's), (Start: 84 @78117 has 8 MA's), (91, 78075), (94, 78045), (97, 78021), (99, 78018), (113, 77922), (135, 77817),

Gene: BABullseye_84 Start: 46645, Stop: 46265, Start Num: 76

Candidate Starts for BABullseye_84:

(42, 46747), (Start: 76 @46645 has 59 MA's), (Start: 84 @46624 has 8 MA's), (Start: 89 @46579 has 1 MA's), (90, 46567), (96, 46513), (101, 46498), (102, 46489), (109, 46426), (110, 46423), (133, 46333), (141, 46300),

Gene: Baby16_83 Start: 48427, Stop: 48074, Start Num: 82

Candidate Starts for Baby16_83:

(Start: 82 @48427 has 302 MA's), (Start: 89 @48391 has 1 MA's), (122, 48199), (128, 48184), (142, 48103), (144, 48088),

Gene: BabyBack_85 Start: 50269, Stop: 49889, Start Num: 68

Candidate Starts for BabyBack_85:

(Start: 54 @50311 has 1 MA's), (Start: 68 @50269 has 6 MA's), (90, 50191), (96, 50137), (102, 50113), (103, 50110), (104, 50086), (109, 50050), (131, 49966), (144, 49903),

Gene: BabyRay_85 Start: 47530, Stop: 47117, Start Num: 60

Candidate Starts for BabyRay_85:

(Start: 60 @47530 has 5 MA's), (94, 47413), (104, 47341), (109, 47305), (138, 47170),

Gene: Bachome_89 Start: 47993, Stop: 47640, Start Num: 82

Candidate Starts for Bachome_89:

(Start: 80 @47996 has 14 MA's), (Start: 82 @47993 has 302 MA's), (Start: 89 @47957 has 1 MA's), (95, 47912), (98, 47891), (101, 47879), (104, 47843), (109, 47807), (144, 47654),

Gene: Backyardigan_77 Start: 48068, Stop: 47715, Start Num: 82

Candidate Starts for Backyardigan_77:

(Start: 82 @48068 has 302 MA's), (Start: 89 @48032 has 1 MA's), (96, 47969), (101, 47954), (103, 47942), (104, 47918), (112, 47870), (122, 47840), (142, 47744), (144, 47729),

Gene: Bactobuster_80 Start: 48766, Stop: 48386, Start Num: 69

Candidate Starts for Bactobuster_80:

(Start: 54 @48808 has 1 MA's), (Start: 69 @48766 has 1 MA's), (Start: 84 @48745 has 8 MA's), (90, 48688), (96, 48634), (102, 48610), (103, 48607), (104, 48583), (106, 48568), (109, 48547),

Gene: Badger_78 Start: 48034, Stop: 47681, Start Num: 82

Candidate Starts for Badger_78:

(Start: 82 @48034 has 302 MA's), (Start: 89 @47998 has 1 MA's), (96, 47935), (101, 47920), (103, 47908), (104, 47884), (112, 47836), (122, 47806), (142, 47710), (144, 47695),

Gene: Baehexic_87 Start: 49162, Stop: 48815, Start Num: 82

Candidate Starts for Baehexic_87:

(16, 49264), (19, 49258), (Start: 82 @49162 has 302 MA's), (Start: 89 @49126 has 1 MA's), (97, 49060), (104, 49012), (117, 48946), (128, 48925), (144, 48829),

Gene: BangNhom_80 Start: 48853, Stop: 48500, Start Num: 82

Candidate Starts for BangNhom_80:

(Start: 82 @48853 has 302 MA's), (Start: 89 @48817 has 1 MA's), (96, 48754), (117, 48637), (122, 48625), (142, 48529), (144, 48514),

Gene: Bartimeaus_83 Start: 48418, Stop: 48065, Start Num: 82

Candidate Starts for Bartimeaus_83:

(Start: 82 @48418 has 302 MA's), (Start: 89 @48382 has 1 MA's), (122, 48190), (128, 48175), (142, 48094), (144, 48079),

Gene: Beauxregard13_85 Start: 47787, Stop: 47404, Start Num: 82

Candidate Starts for Beauxregard13_85:

(Start: 79 @47793 has 4 MA's), (Start: 80 @47790 has 14 MA's), (Start: 82 @47787 has 302 MA's), (88, 47745), (96, 47670), (97, 47667), (113, 47568), (123, 47538),

Gene: Beemo_91 Start: 49455, Stop: 49108, Start Num: 84

Candidate Starts for Beemo_91:

(Start: 80 @49461 has 14 MA's), (Start: 84 @49455 has 8 MA's), (Start: 89 @49425 has 1 MA's), (94, 49383), (96, 49362), (128, 49218), (144, 49122),

Gene: BellusTerra_83 Start: 48281, Stop: 47928, Start Num: 82

Candidate Starts for BellusTerra_83:

(Start: 82 @48281 has 302 MA's), (Start: 89 @48245 has 1 MA's), (122, 48053), (128, 48038), (142, 47957), (144, 47942),

Gene: BengiVuitton_90 Start: 49877, Stop: 49530, Start Num: 82
Candidate Starts for BengiVuitton_90:
(Start: 82 @49877 has 302 MA's), (Start: 89 @49841 has 1 MA's), (103, 49751), (104, 49727), (117, 49661), (144, 49544),

Gene: Benvolio_87 Start: 49504, Stop: 49151, Start Num: 82
Candidate Starts for Benvolio_87:
(21, 49585), (Start: 82 @49504 has 302 MA's), (Start: 89 @49468 has 1 MA's), (97, 49402), (104, 49354), (117, 49288), (144, 49165),

Gene: BiancaTri92_86 Start: 49338, Stop: 48985, Start Num: 82
Candidate Starts for BiancaTri92_86:
(Start: 82 @49338 has 302 MA's), (Start: 89 @49302 has 1 MA's), (104, 49188), (112, 49140), (113, 49137), (117, 49122), (144, 48999),

Gene: Blackmoor_82 Start: 48418, Stop: 48065, Start Num: 82
Candidate Starts for Blackmoor_82:
(Start: 82 @48418 has 302 MA's), (Start: 89 @48382 has 1 MA's), (122, 48190), (128, 48175), (142, 48094), (144, 48079),

Gene: Blinn1_93 Start: 48557, Stop: 48177, Start Num: 76
Candidate Starts for Blinn1_93:
(17, 48755), (33, 48701), (49, 48629), (50, 48626), (53, 48617), (Start: 76 @48557 has 59 MA's), (Start: 84 @48536 has 8 MA's), (Start: 89 @48491 has 1 MA's), (90, 48479), (96, 48425), (101, 48410), (102, 48401), (109, 48338), (110, 48335), (133, 48245), (141, 48212),

Gene: Blue7_94 Start: 48544, Stop: 48164, Start Num: 76
Candidate Starts for Blue7_94:
(42, 48646), (Start: 76 @48544 has 59 MA's), (Start: 84 @48523 has 8 MA's), (Start: 89 @48478 has 1 MA's), (90, 48466), (96, 48412), (101, 48397), (102, 48388), (103, 48385), (109, 48325), (110, 48322), (133, 48232), (141, 48199),

Gene: BlueBird_88 Start: 47971, Stop: 47552, Start Num: 62
Candidate Starts for BlueBird_88:
(Start: 62 @47971 has 8 MA's), (Start: 76 @47941 has 59 MA's), (Start: 89 @47890 has 1 MA's), (104, 47776), (109, 47740), (138, 47605),

Gene: BobSwaget_83 Start: 47356, Stop: 47003, Start Num: 82
Candidate Starts for BobSwaget_83:
(Start: 82 @47356 has 302 MA's), (Start: 89 @47320 has 1 MA's), (97, 47254), (104, 47206), (117, 47140), (144, 47017),

Gene: BogosyJay_90 Start: 49514, Stop: 49161, Start Num: 82
Candidate Starts for BogosyJay_90:
(Start: 82 @49514 has 302 MA's), (Start: 89 @49478 has 1 MA's), (94, 49436), (96, 49415), (128, 49271), (144, 49175),

Gene: Bombshell_83 Start: 48413, Stop: 48060, Start Num: 82
Candidate Starts for Bombshell_83:
(Start: 82 @48413 has 302 MA's), (Start: 89 @48377 has 1 MA's), (96, 48314), (122, 48185), (128, 48170), (142, 48089), (144, 48074),

Gene: Bongo_144 Start: 75110, Stop: 74703, Start Num: 59

Candidate Starts for Bongo_144:

(Start: 59 @75110 has 18 MA's), (94, 74984), (97, 74960), (102, 74939), (103, 74936), (113, 74861), (121, 74840), (135, 74756), (141, 74738),

Gene: Bowtie_87 Start: 47552, Stop: 47199, Start Num: 82

Candidate Starts for Bowtie_87:

(Start: 80 @47555 has 14 MA's), (Start: 82 @47552 has 302 MA's), (90, 47507), (94, 47474), (97, 47453), (101, 47438), (104, 47402), (118, 47333), (128, 47309), (144, 47213),

Gene: BreSam8_86 Start: 47772, Stop: 47389, Start Num: 82

Candidate Starts for BreSam8_86:

(32, 47931), (55, 47841), (56, 47832), (Start: 67 @47802 has 1 MA's), (Start: 79 @47778 has 4 MA's), (Start: 82 @47772 has 302 MA's), (Start: 84 @47766 has 8 MA's), (96, 47655), (97, 47652), (113, 47553), (123, 47523),

Gene: Bricole_152 Start: 76016, Stop: 75609, Start Num: 59

Candidate Starts for Bricole_152:

(Start: 59 @76016 has 18 MA's), (94, 75890), (97, 75866), (102, 75845), (103, 75842), (113, 75767), (121, 75746), (135, 75662), (141, 75644),

Gene: Broseidon_83 Start: 48419, Stop: 48066, Start Num: 82

Candidate Starts for Broseidon_83:

(Start: 82 @48419 has 302 MA's), (Start: 89 @48383 has 1 MA's), (122, 48191), (128, 48176), (142, 48095), (144, 48080),

Gene: Bruiser_82 Start: 48416, Stop: 48063, Start Num: 82

Candidate Starts for Bruiser_82:

(Start: 82 @48416 has 302 MA's), (Start: 89 @48380 has 1 MA's), (96, 48317), (122, 48188), (128, 48173), (142, 48092), (144, 48077),

Gene: BubbleTrouble_82 Start: 48443, Stop: 48090, Start Num: 82

Candidate Starts for BubbleTrouble_82:

(Start: 82 @48443 has 302 MA's), (Start: 89 @48407 has 1 MA's), (122, 48215), (128, 48200), (142, 48119), (144, 48104),

Gene: Bud_84 Start: 47651, Stop: 47298, Start Num: 82

Candidate Starts for Bud_84:

(Start: 80 @47654 has 14 MA's), (Start: 82 @47651 has 302 MA's), (90, 47606), (94, 47573), (97, 47552), (101, 47537), (104, 47501), (118, 47432), (128, 47408), (144, 47312),

Gene: Bugatti_87 Start: 47971, Stop: 47552, Start Num: 62

Candidate Starts for Bugatti_87:

(Start: 62 @47971 has 8 MA's), (Start: 76 @47941 has 59 MA's), (Start: 89 @47890 has 1 MA's), (104, 47776), (109, 47740), (138, 47605),

Gene: Bumblebee11_78 Start: 48034, Stop: 47681, Start Num: 82

Candidate Starts for Bumblebee11_78:

(Start: 82 @48034 has 302 MA's), (Start: 89 @47998 has 1 MA's), (96, 47935), (101, 47920), (103, 47908), (104, 47884), (112, 47836), (122, 47806), (142, 47710), (144, 47695),

Gene: Burger_81 Start: 48416, Stop: 48063, Start Num: 82

Candidate Starts for Burger_81:

(Start: 82 @48416 has 302 MA's), (Start: 89 @48380 has 1 MA's), (122, 48188), (128, 48173), (142, 48092), (144, 48077),

Gene: BuzzBuzz_80 Start: 47812, Stop: 47429, Start Num: 82

Candidate Starts for BuzzBuzz_80:

(Start: 79 @47818 has 4 MA's), (Start: 80 @47815 has 14 MA's), (Start: 82 @47812 has 302 MA's), (88, 47770), (96, 47695), (97, 47692), (113, 47593), (123, 47563),

Gene: Bxz2_81 Start: 47819, Stop: 47436, Start Num: 82

Candidate Starts for Bxz2_81:

(Start: 79 @47825 has 4 MA's), (Start: 80 @47822 has 14 MA's), (Start: 82 @47819 has 302 MA's), (96, 47702), (97, 47699), (113, 47600), (123, 47570),

Gene: CRB1_89 Start: 49969, Stop: 49622, Start Num: 82

Candidate Starts for CRB1_89:

(9, 50119), (Start: 82 @49969 has 302 MA's), (Start: 89 @49933 has 1 MA's), (97, 49867), (104, 49819), (117, 49753), (144, 49636),

Gene: Caelakin_81 Start: 48416, Stop: 48063, Start Num: 82

Candidate Starts for Caelakin_81:

(Start: 82 @48416 has 302 MA's), (Start: 89 @48380 has 1 MA's), (96, 48317), (122, 48188), (128, 48173), (142, 48092), (144, 48077),

Gene: Camperdownii_79 Start: 47659, Stop: 47306, Start Num: 82

Candidate Starts for Camperdownii_79:

(Start: 82 @47659 has 302 MA's), (Start: 89 @47623 has 1 MA's), (104, 47509), (112, 47461), (117, 47443), (122, 47431), (142, 47335), (144, 47320),

Gene: Candra_89 Start: 48349, Stop: 47969, Start Num: 76

Candidate Starts for Candra_89:

(42, 48451), (Start: 76 @48349 has 59 MA's), (Start: 84 @48328 has 8 MA's), (Start: 89 @48283 has 1 MA's), (90, 48271), (96, 48217), (101, 48202), (102, 48193), (109, 48130), (110, 48127), (133, 48037), (141, 48004),

Gene: Caraxes_90 Start: 48723, Stop: 48343, Start Num: 76

Candidate Starts for Caraxes_90:

(Start: 76 @48723 has 59 MA's), (Start: 84 @48702 has 8 MA's), (93, 48636), (96, 48591), (99, 48585), (102, 48567), (107, 48519), (124, 48465),

Gene: Catalina_93 Start: 49575, Stop: 49222, Start Num: 80

Candidate Starts for Catalina_93:

(Start: 80 @49575 has 14 MA's), (Start: 84 @49569 has 8 MA's), (Start: 89 @49539 has 1 MA's), (94, 49497), (96, 49476), (128, 49332), (144, 49236),

Gene: Caviar_74 Start: 44633, Stop: 44208, Start Num: 58

Candidate Starts for Caviar_74:

(34, 44723), (Start: 58 @44633 has 7 MA's), (Start: 63 @44624 has 6 MA's), (Start: 76 @44597 has 59 MA's), (94, 44504), (134, 44276), (138, 44261),

Gene: Centaur_88 Start: 49029, Stop: 48682, Start Num: 82

Candidate Starts for Centaur_88:

(16, 49131), (19, 49125), (Start: 82 @49029 has 302 MA's), (Start: 89 @48993 has 1 MA's), (97, 48927), (104, 48879), (117, 48813), (128, 48792), (144, 48696),

Gene: CentreCat_83 Start: 48456, Stop: 48103, Start Num: 82

Candidate Starts for CentreCat_83:

(Start: 82 @48456 has 302 MA's), (Start: 89 @48420 has 1 MA's), (96, 48357), (117, 48240), (122, 48228), (142, 48132), (144, 48117),

Gene: Cerulean_85 Start: 48854, Stop: 48501, Start Num: 82

Candidate Starts for Cerulean_85:

(Start: 82 @48854 has 302 MA's), (Start: 89 @48818 has 1 MA's), (96, 48755), (117, 48638), (122, 48626), (142, 48530), (144, 48515),

Gene: ChampagnePapi_86 Start: 48856, Stop: 48503, Start Num: 82

Candidate Starts for ChampagnePapi_86:

(Start: 82 @48856 has 302 MA's), (Start: 89 @48820 has 1 MA's), (96, 48757), (117, 48640), (122, 48628), (142, 48532), (144, 48517),

Gene: Changeling_87 Start: 49974, Stop: 49618, Start Num: 82

Candidate Starts for Changeling_87:

(Start: 82 @49974 has 302 MA's), (Start: 89 @49938 has 1 MA's), (94, 49896), (98, 49869), (101, 49857), (104, 49821), (110, 49782), (113, 49770), (122, 49743), (142, 49647), (144, 49632),

Gene: Chaph_83 Start: 48427, Stop: 48074, Start Num: 82

Candidate Starts for Chaph_83:

(Start: 82 @48427 has 302 MA's), (Start: 89 @48391 has 1 MA's), (96, 48328), (122, 48199), (128, 48184), (142, 48103), (144, 48088),

Gene: Chargerpower_88 Start: 48024, Stop: 47668, Start Num: 82

Candidate Starts for Chargerpower_88:

(Start: 82 @48024 has 302 MA's), (Start: 89 @47988 has 1 MA's), (98, 47919), (122, 47793), (142, 47697), (144, 47682),

Gene: Charm_86 Start: 48867, Stop: 48514, Start Num: 82

Candidate Starts for Charm_86:

(Start: 82 @48867 has 302 MA's), (85, 48855), (Start: 89 @48831 has 1 MA's), (113, 48666), (117, 48651), (128, 48624), (144, 48528),

Gene: Chartreuse_89 Start: 47650, Stop: 47270, Start Num: 76

Candidate Starts for Chartreuse_89:

(42, 47752), (Start: 76 @47650 has 59 MA's), (Start: 84 @47629 has 8 MA's), (Start: 89 @47584 has 1 MA's), (90, 47572), (96, 47518), (101, 47503), (102, 47494), (109, 47431), (110, 47428), (133, 47338), (141, 47305),

Gene: Che12_91 Start: 48845, Stop: 48465, Start Num: 76

Candidate Starts for Che12_91:

(57, 48884), (Start: 76 @48845 has 59 MA's), (Start: 84 @48824 has 8 MA's), (90, 48767), (93, 48758), (96, 48713), (102, 48689), (107, 48641), (110, 48623),

Gene: ChipMunk_89 Start: 50944, Stop: 50591, Start Num: 82

Candidate Starts for ChipMunk_89:

(5, 51148), (6, 51145), (15, 51058), (21, 51025), (Start: 82 @50944 has 302 MA's), (Start: 89 @50908 has 1 MA's), (97, 50842), (104, 50794), (117, 50728), (144, 50605),

Gene: Chupacabra_79 Start: 48067, Stop: 47660, Start Num: 65

Candidate Starts for Chupacabra_79:

(Start: 65 @48067 has 16 MA's), (Start: 76 @48043 has 59 MA's), (94, 47950), (96, 47929), (100, 47920), (103, 47902), (109, 47842), (115, 47827), (138, 47713),

Gene: Cici_79 Start: 48047, Stop: 47694, Start Num: 82

Candidate Starts for Cici_79:

(Start: 82 @48047 has 302 MA's), (Start: 89 @48011 has 1 MA's), (96, 47948), (101, 47933), (103, 47921), (104, 47897), (112, 47849), (122, 47819), (142, 47723), (144, 47708),

Gene: Cindaradix_78 Start: 48629, Stop: 48276, Start Num: 82

Candidate Starts for Cindaradix_78:

(Start: 82 @48629 has 302 MA's), (Start: 89 @48593 has 1 MA's), (101, 48515), (112, 48431), (122, 48401), (142, 48305), (144, 48290),

Gene: Cintron_83 Start: 48532, Stop: 48179, Start Num: 82

Candidate Starts for Cintron_83:

(Start: 82 @48532 has 302 MA's), (Start: 89 @48496 has 1 MA's), (96, 48433), (104, 48382), (112, 48334), (122, 48304), (142, 48208), (144, 48193),

Gene: Citius_83 Start: 48437, Stop: 48084, Start Num: 82

Candidate Starts for Citius_83:

(Start: 82 @48437 has 302 MA's), (Start: 89 @48401 has 1 MA's), (96, 48338), (117, 48221), (122, 48209), (142, 48113), (144, 48098),

Gene: Clarenza_82 Start: 48413, Stop: 48060, Start Num: 82

Candidate Starts for Clarenza_82:

(Start: 82 @48413 has 302 MA's), (Start: 89 @48377 has 1 MA's), (122, 48185), (128, 48170), (142, 48089), (144, 48074),

Gene: CloudWang3_93 Start: 48839, Stop: 48459, Start Num: 76

Candidate Starts for CloudWang3_93:

(42, 48941), (Start: 76 @48839 has 59 MA's), (Start: 84 @48818 has 8 MA's), (Start: 89 @48773 has 1 MA's), (90, 48761), (96, 48707), (101, 48692), (102, 48683), (103, 48680), (109, 48620), (110, 48617), (133, 48527), (141, 48494),

Gene: Cocoaberry_83 Start: 48417, Stop: 48064, Start Num: 82

Candidate Starts for Cocoaberry_83:

(Start: 82 @48417 has 302 MA's), (Start: 89 @48381 has 1 MA's), (96, 48318), (122, 48189), (128, 48174), (142, 48093), (144, 48078),

Gene: Colbster_82 Start: 47787, Stop: 47404, Start Num: 82

Candidate Starts for Colbster_82:

(Start: 79 @47793 has 4 MA's), (Start: 80 @47790 has 14 MA's), (Start: 82 @47787 has 302 MA's), (88, 47745), (96, 47670), (97, 47667), (113, 47568), (123, 47538),

Gene: Colin_87 Start: 50113, Stop: 49757, Start Num: 82

Candidate Starts for Colin_87:

(21, 50194), (Start: 82 @50113 has 302 MA's), (Start: 84 @50107 has 8 MA's), (Start: 89 @50077 has 1 MA's), (94, 50035), (98, 50008), (104, 49960), (110, 49921), (122, 49882), (142, 49786), (144, 49771),

Gene: Commander_81 Start: 48420, Stop: 48067, Start Num: 82

Candidate Starts for Commander_81:

(Start: 82 @48420 has 302 MA's), (Start: 89 @48384 has 1 MA's), (122, 48192), (128, 48177), (142, 48096), (144, 48081),

Gene: Connomayer_83 Start: 48416, Stop: 48063, Start Num: 82

Candidate Starts for Connomayer_83:

(Start: 82 @48416 has 302 MA's), (Start: 89 @48380 has 1 MA's), (122, 48188), (128, 48173), (142, 48092), (144, 48077),

Gene: Conquerage_89 Start: 49236, Stop: 48883, Start Num: 80

Candidate Starts for Conquerage_89:

(Start: 80 @49236 has 14 MA's), (Start: 84 @49230 has 8 MA's), (Start: 89 @49200 has 1 MA's), (94, 49158), (96, 49137), (128, 48993), (144, 48897),

Gene: Cookiedough_91 Start: 48964, Stop: 48584, Start Num: 76

Candidate Starts for Cookiedough_91:

(42, 49066), (Start: 76 @48964 has 59 MA's), (Start: 84 @48943 has 8 MA's), (Start: 89 @48898 has 1 MA's), (90, 48886), (96, 48832), (101, 48817), (102, 48808), (109, 48745), (110, 48742), (133, 48652), (141, 48619),

Gene: Crucio_88 Start: 49737, Stop: 49384, Start Num: 82

Candidate Starts for Crucio_88:

(Start: 82 @49737 has 302 MA's), (Start: 89 @49701 has 1 MA's), (97, 49635), (104, 49587), (113, 49536), (117, 49521), (144, 49398),

Gene: Cullens_87 Start: 47781, Stop: 47398, Start Num: 82

Candidate Starts for Cullens_87:

(Start: 79 @47787 has 4 MA's), (Start: 82 @47781 has 302 MA's), (88, 47739), (96, 47664), (97, 47661), (113, 47562), (123, 47532),

Gene: DBQu4n_90 Start: 49509, Stop: 49129, Start Num: 76

Candidate Starts for DBQu4n_90:

(Start: 76 @49509 has 59 MA's), (93, 49422), (102, 49353), (103, 49350), (104, 49326),

Gene: DaHudson_85 Start: 47771, Stop: 47388, Start Num: 82

Candidate Starts for DaHudson_85:

(32, 47930), (55, 47840), (56, 47831), (Start: 67 @47801 has 1 MA's), (Start: 79 @47777 has 4 MA's), (Start: 82 @47771 has 302 MA's), (Start: 84 @47765 has 8 MA's), (96, 47654), (97, 47651), (113, 47552), (123, 47522),

Gene: DaVinci_89 Start: 47704, Stop: 47324, Start Num: 76

Candidate Starts for DaVinci_89:

(42, 47806), (Start: 76 @47704 has 59 MA's), (Start: 84 @47683 has 8 MA's), (Start: 89 @47638 has 1 MA's), (90, 47626), (96, 47572), (101, 47557), (102, 47548), (109, 47485), (110, 47482), (133, 47392), (141, 47359),

Gene: Daishi_85 Start: 46653, Stop: 46270, Start Num: 82

Candidate Starts for Daishi_85:

(Start: 79 @46659 has 4 MA's), (Start: 80 @46656 has 14 MA's), (Start: 82 @46653 has 302 MA's), (96, 46536), (97, 46533), (113, 46434), (123, 46404),

Gene: Dalmatian_88 Start: 49536, Stop: 49183, Start Num: 82

Candidate Starts for Dalmatian_88:

(Start: 82 @49536 has 302 MA's), (Start: 89 @49500 has 1 MA's), (90, 49491), (97, 49434), (104, 49386), (117, 49320), (144, 49197),

Gene: Darrell_89 Start: 48667, Stop: 48314, Start Num: 82

Candidate Starts for Darrell_89:

(Start: 82 @48667 has 302 MA's), (Start: 89 @48631 has 1 MA's), (94, 48589), (96, 48568), (101, 48553), (104, 48517), (110, 48478), (117, 48451), (144, 48328),

Gene: DarthPhader_81 Start: 48465, Stop: 48082, Start Num: 76

Candidate Starts for DarthPhader_81:

(Start: 76 @48465 has 59 MA's), (Start: 84 @48444 has 8 MA's), (102, 48309), (104, 48282), (109, 48246), (110, 48243), (124, 48207),

Gene: Datway_80 Start: 48227, Stop: 47874, Start Num: 82

Candidate Starts for Datway_80:

(Start: 82 @48227 has 302 MA's), (Start: 89 @48191 has 1 MA's), (96, 48128), (112, 48029), (117, 48011), (122, 47999), (142, 47903), (144, 47888),

Gene: Deano_80 Start: 48424, Stop: 48071, Start Num: 82

Candidate Starts for Deano_80:

(Start: 82 @48424 has 302 MA's), (Start: 89 @48388 has 1 MA's), (122, 48196), (128, 48181), (142, 48100), (144, 48085),

Gene: Deloris_90 Start: 49570, Stop: 49223, Start Num: 82

Candidate Starts for Deloris_90:

(Start: 82 @49570 has 302 MA's), (Start: 89 @49534 has 1 MA's), (97, 49468), (104, 49420), (117, 49354), (144, 49237),

Gene: Dhanush_83 Start: 48419, Stop: 48066, Start Num: 82

Candidate Starts for Dhanush_83:

(Start: 82 @48419 has 302 MA's), (Start: 89 @48383 has 1 MA's), (122, 48191), (128, 48176), (142, 48095), (144, 48080),

Gene: Dieselweasel_87 Start: 47785, Stop: 47402, Start Num: 82

Candidate Starts for Dieselweasel_87:

(Start: 79 @47791 has 4 MA's), (Start: 80 @47788 has 14 MA's), (Start: 82 @47785 has 302 MA's), (88, 47743), (96, 47668), (97, 47665), (113, 47566), (123, 47536),

Gene: Dignity_90 Start: 49988, Stop: 49635, Start Num: 82

Candidate Starts for Dignity_90:

(13, 50240), (18, 50198), (45, 50090), (47, 50084), (Start: 82 @49988 has 302 MA's), (Start: 89 @49952 has 1 MA's), (97, 49886), (104, 49838), (117, 49772), (144, 49649),

Gene: Diminimus_147 Start: 74926, Stop: 74519, Start Num: 59

Candidate Starts for Diminimus_147:

(Start: 59 @74926 has 18 MA's), (94, 74800), (97, 74776), (102, 74755), (103, 74752), (113, 74677), (121, 74656), (135, 74572), (141, 74554),

Gene: DirtyDunning_82 Start: 48428, Stop: 48075, Start Num: 82

Candidate Starts for DirtyDunning_82:

(Start: 82 @48428 has 302 MA's), (Start: 89 @48392 has 1 MA's), (112, 48230), (122, 48200), (128, 48185), (142, 48104), (144, 48089),

Gene: Dorothea_88 Start: 48956, Stop: 48576, Start Num: 76

Candidate Starts for Dorothea_88:

(42, 49058), (Start: 76 @48956 has 59 MA's), (Start: 84 @48935 has 8 MA's), (Start: 89 @48890 has 1 MA's), (90, 48878), (96, 48824), (101, 48809), (102, 48800), (109, 48737), (110, 48734), (133, 48644), (141, 48611),

Gene: Drake55_89 Start: 49285, Stop: 48932, Start Num: 82

Candidate Starts for Drake55_89:

(Start: 82 @49285 has 302 MA's), (Start: 89 @49249 has 1 MA's), (97, 49183), (104, 49135), (117, 49069), (128, 49042), (144, 48946),

Gene: Drake94_79 Start: 47227, Stop: 46820, Start Num: 65

Candidate Starts for Drake94_79:

(Start: 65 @47227 has 16 MA's), (Start: 76 @47203 has 59 MA's), (94, 47110), (96, 47089), (100, 47080), (103, 47062), (109, 47002), (115, 46987), (128, 46939), (134, 46888), (138, 46873),

Gene: DreamTeam1_86 Start: 48715, Stop: 48362, Start Num: 82

Candidate Starts for DreamTeam1_86:

(Start: 82 @48715 has 302 MA's), (Start: 84 @48709 has 8 MA's), (Start: 89 @48679 has 1 MA's), (96, 48616), (113, 48514), (117, 48499), (128, 48472), (144, 48376),

Gene: DroogsArmy_79 Start: 50479, Stop: 50045, Start Num: 64

Candidate Starts for DroogsArmy_79:

(Start: 64 @50479 has 6 MA's), (Start: 76 @50452 has 59 MA's), (Start: 84 @50431 has 8 MA's), (93, 50383), (94, 50359), (96, 50338), (103, 50311), (104, 50287), (112, 50239), (114, 50236), (127, 50185), (129, 50164),

Gene: Druantia_81 Start: 48243, Stop: 47890, Start Num: 82

Candidate Starts for Druantia_81:

(Start: 82 @48243 has 302 MA's), (Start: 89 @48207 has 1 MA's), (96, 48144), (101, 48129), (103, 48117), (104, 48093), (112, 48045), (122, 48015), (142, 47919), (144, 47904),

Gene: DudeLittle_86 Start: 49255, Stop: 48902, Start Num: 82

Candidate Starts for DudeLittle_86:

(Start: 82 @49255 has 302 MA's), (Start: 89 @49219 has 1 MA's), (90, 49210), (97, 49153), (104, 49105), (117, 49039), (144, 48916),

Gene: Dulcita_147 Start: 74927, Stop: 74520, Start Num: 59

Candidate Starts for Dulcita_147:

(Start: 59 @74927 has 18 MA's), (94, 74801), (97, 74777), (102, 74756), (103, 74753), (113, 74678), (121, 74657), (135, 74573), (141, 74555),

Gene: Duplo_91 Start: 49566, Stop: 49186, Start Num: 76

Candidate Starts for Duplo_91:

(Start: 76 @49566 has 59 MA's), (93, 49479), (102, 49410), (103, 49407), (104, 49383),

Gene: EZMoney23_84 Start: 48736, Stop: 48389, Start Num: 82

Candidate Starts for EZMoney23_84:

(45, 48820), (53, 48811), (Start: 82 @48736 has 302 MA's), (Start: 89 @48700 has 1 MA's), (97, 48634), (104, 48586), (117, 48520), (128, 48499), (144, 48403),

Gene: Eagle_82 Start: 48478, Stop: 48125, Start Num: 82

Candidate Starts for Eagle_82:

(Start: 82 @48478 has 302 MA's), (Start: 89 @48442 has 1 MA's), (96, 48379), (122, 48250), (128, 48235), (142, 48154), (144, 48139),

Gene: Eaglepride_85 Start: 48147, Stop: 47740, Start Num: 65

Candidate Starts for Eaglepride_85:

(Start: 65 @48147 has 16 MA's), (Start: 76 @48123 has 59 MA's), (96, 48009), (100, 48000), (103, 47982), (109, 47922), (110, 47919), (112, 47910), (134, 47808), (138, 47793),

Gene: Eapen_83 Start: 48411, Stop: 48058, Start Num: 82

Candidate Starts for Eapen_83:

(Start: 82 @48411 has 302 MA's), (Start: 89 @48375 has 1 MA's), (96, 48312), (122, 48183), (142, 48087), (144, 48072),

Gene: Ebony_90 Start: 48516, Stop: 48163, Start Num: 82

Candidate Starts for Ebony_90:

(Start: 80 @48519 has 14 MA's), (Start: 82 @48516 has 302 MA's), (90, 48471), (94, 48438), (97, 48417), (101, 48402), (104, 48366), (118, 48297), (128, 48273), (144, 48177),

Gene: Echild_92 Start: 49528, Stop: 49175, Start Num: 82

Candidate Starts for Echild_92:

(21, 49609), (Start: 82 @49528 has 302 MA's), (Start: 89 @49492 has 1 MA's), (97, 49426), (104, 49378), (117, 49312), (144, 49189),

Gene: Eidsmoe_89 Start: 49229, Stop: 48876, Start Num: 80

Candidate Starts for Eidsmoe_89:

(Start: 80 @49229 has 14 MA's), (Start: 84 @49223 has 8 MA's), (Start: 89 @49193 has 1 MA's), (94, 49151), (96, 49130), (128, 48986), (144, 48890),

Gene: Elephantoon_91 Start: 49394, Stop: 49041, Start Num: 82

Candidate Starts for Elephantoon_91:

(Start: 80 @49397 has 14 MA's), (Start: 82 @49394 has 302 MA's), (Start: 89 @49358 has 1 MA's), (94, 49316), (101, 49280), (103, 49268), (104, 49244), (117, 49178), (144, 49055),

Gene: EmyBug_88 Start: 49231, Stop: 48878, Start Num: 80

Candidate Starts for EmyBug_88:

(Start: 80 @49231 has 14 MA's), (Start: 84 @49225 has 8 MA's), (Start: 89 @49195 has 1 MA's), (94, 49153), (96, 49132), (128, 48988), (144, 48892),

Gene: EpicPhail_87 Start: 47787, Stop: 47404, Start Num: 82

Candidate Starts for EpicPhail_87:

(Start: 79 @47793 has 4 MA's), (Start: 80 @47790 has 14 MA's), (Start: 82 @47787 has 302 MA's), (88, 47745), (96, 47670), (97, 47667), (113, 47568), (123, 47538),

Gene: Equemioh13_88 Start: 49264, Stop: 48911, Start Num: 82

Candidate Starts for Equemioh13_88:

(16, 49366), (19, 49360), (Start: 82 @49264 has 302 MA's), (Start: 89 @49228 has 1 MA's), (97, 49162), (103, 49138), (104, 49114), (117, 49048), (128, 49021), (144, 48925),

Gene: EricB_89 Start: 47853, Stop: 47473, Start Num: 76

Candidate Starts for EricB_89:

(42, 47955), (Start: 76 @47853 has 59 MA's), (Start: 84 @47832 has 8 MA's), (Start: 89 @47787 has 1 MA's), (90, 47775), (96, 47721), (101, 47706), (102, 47697), (109, 47634), (110, 47631), (133, 47541), (141, 47508),

Gene: Eris_82 Start: 48428, Stop: 48075, Start Num: 82

Candidate Starts for Eris_82:

(Start: 82 @48428 has 302 MA's), (Start: 89 @48392 has 1 MA's), (96, 48329), (122, 48200), (128, 48185), (142, 48104), (144, 48089),

Gene: Eros_83 Start: 48424, Stop: 48071, Start Num: 82

Candidate Starts for Eros_83:

(Start: 82 @48424 has 302 MA's), (Start: 89 @48388 has 1 MA's), (122, 48196), (128, 48181), (142, 48100), (144, 48085),

Gene: Estes_162 Start: 78376, Stop: 77969, Start Num: 59

Candidate Starts for Estes_162:

(37, 78457), (46, 78427), (Start: 59 @78376 has 18 MA's), (Start: 84 @78322 has 8 MA's), (91, 78280), (94, 78250), (96, 78229), (97, 78226), (99, 78223), (109, 78142), (112, 78130), (113, 78127), (135, 78022),

Gene: Et2Brutus_91 Start: 48793, Stop: 48440, Start Num: 82

Candidate Starts for Et2Brutus_91:

(Start: 80 @48796 has 14 MA's), (Start: 82 @48793 has 302 MA's), (90, 48748), (94, 48715), (97, 48694), (101, 48679), (104, 48643), (118, 48574), (128, 48550), (144, 48454),

Gene: Eurydice_84 Start: 48453, Stop: 48100, Start Num: 82

Candidate Starts for Eurydice_84:

(Start: 82 @48453 has 302 MA's), (Start: 89 @48417 has 1 MA's), (96, 48354), (117, 48237), (122, 48225), (142, 48129), (144, 48114),

Gene: EvilGenius_88 Start: 50945, Stop: 50592, Start Num: 82

Candidate Starts for EvilGenius_88:

(5, 51149), (6, 51146), (15, 51059), (21, 51026), (Start: 82 @50945 has 302 MA's), (Start: 89 @50909 has 1 MA's), (97, 50843), (104, 50795), (117, 50729), (144, 50606),

Gene: ExplosioNervosa_89 Start: 49291, Stop: 48944, Start Num: 84

Candidate Starts for ExplosioNervosa_89:

(Start: 80 @49297 has 14 MA's), (Start: 84 @49291 has 8 MA's), (Start: 89 @49261 has 1 MA's), (94, 49219), (96, 49198), (128, 49054), (144, 48958),

Gene: Fameo_87 Start: 49308, Stop: 48955, Start Num: 82

Candidate Starts for Fameo_87:

(21, 49389), (Start: 82 @49308 has 302 MA's), (Start: 89 @49272 has 1 MA's), (97, 49206), (117, 49092), (144, 48969),

Gene: Fayely_89 Start: 49205, Stop: 48852, Start Num: 80

Candidate Starts for Fayely_89:

(Start: 80 @49205 has 14 MA's), (Start: 84 @49199 has 8 MA's), (Start: 89 @49169 has 1 MA's), (94, 49127), (96, 49106), (128, 48962), (144, 48866),

Gene: Fernando_87 Start: 47781, Stop: 47398, Start Num: 82

Candidate Starts for Fernando_87:

(Start: 79 @47787 has 4 MA's), (Start: 82 @47781 has 302 MA's), (88, 47739), (96, 47664), (97, 47661), (113, 47562), (123, 47532),

Gene: Fibonacci_91 Start: 48799, Stop: 48446, Start Num: 82

Candidate Starts for Fibonacci_91:

(Start: 80 @48802 has 14 MA's), (Start: 82 @48799 has 302 MA's), (90, 48754), (94, 48721), (97, 48700), (101, 48685), (104, 48649), (118, 48580), (128, 48556), (144, 48460),

Gene: FiringLine_88 Start: 49833, Stop: 49480, Start Num: 82

Candidate Starts for FiringLine_88:

(Start: 82 @49833 has 302 MA's), (Start: 89 @49797 has 1 MA's), (97, 49731), (104, 49683), (113, 49632), (144, 49494),

Gene: First_0089 Start: 49681, Stop: 49328, Start Num: 82

Candidate Starts for First_0089:

(Start: 82 @49681 has 302 MA's), (Start: 89 @49645 has 1 MA's), (104, 49531), (117, 49465), (144, 49342),

Gene: Flare16_88 Start: 49079, Stop: 48726, Start Num: 82

Candidate Starts for Flare16_88:

(16, 49181), (19, 49175), (Start: 82 @49079 has 302 MA's), (Start: 89 @49043 has 1 MA's), (97, 48977), (104, 48929), (117, 48863), (128, 48836), (144, 48740),

Gene: Flaverint_92 Start: 48943, Stop: 48590, Start Num: 82

Candidate Starts for Flaverint_92:

(Start: 80 @48946 has 14 MA's), (Start: 82 @48943 has 302 MA's), (90, 48898), (94, 48865), (97, 48844), (101, 48829), (104, 48793), (118, 48724), (128, 48700), (144, 48604),

Gene: Florean_83 Start: 48415, Stop: 48062, Start Num: 82

Candidate Starts for Florean_83:

(Start: 82 @48415 has 302 MA's), (Start: 89 @48379 has 1 MA's), (122, 48187), (128, 48172), (142, 48091), (144, 48076),

Gene: Flux_84 Start: 48414, Stop: 48061, Start Num: 82

Candidate Starts for Flux_84:

(Start: 82 @48414 has 302 MA's), (Start: 89 @48378 has 1 MA's), (96, 48315), (117, 48198), (122, 48186), (128, 48171), (142, 48090), (144, 48075),

Gene: Fred313_83 Start: 47601, Stop: 47182, Start Num: 62

Candidate Starts for Fred313_83:

(27, 47727), (Start: 62 @47601 has 8 MA's), (Start: 76 @47571 has 59 MA's), (Start: 89 @47520 has 1 MA's), (104, 47406), (109, 47370), (138, 47235),

Gene: Funston_82 Start: 48413, Stop: 48060, Start Num: 82

Candidate Starts for Funston_82:

(Start: 82 @48413 has 302 MA's), (Start: 89 @48377 has 1 MA's), (96, 48314), (122, 48185), (128, 48170), (142, 48089), (144, 48074),

Gene: Gadost_83 Start: 48417, Stop: 48064, Start Num: 82

Candidate Starts for Gadost_83:

(Start: 82 @48417 has 302 MA's), (Start: 89 @48381 has 1 MA's), (96, 48318), (122, 48189), (128, 48174), (142, 48093), (144, 48078),

Gene: Gail_90 Start: 49237, Stop: 48884, Start Num: 82

Candidate Starts for Gail_90:

(3, 49504), (Start: 80 @49240 has 14 MA's), (Start: 82 @49237 has 302 MA's), (85, 49225), (Start: 89 @49201 has 1 MA's), (96, 49138), (103, 49111), (104, 49087), (112, 49039), (113, 49036), (122,

49009), (142, 48913), (144, 48898),

Gene: Garak_94 Start: 48763, Stop: 48404, Start Num: 84

Candidate Starts for Garak_94:

(42, 48886), (Start: 76 @48784 has 59 MA's), (Start: 84 @48763 has 8 MA's), (Start: 89 @48718 has 1 MA's), (90, 48706), (96, 48652), (101, 48637), (102, 48628), (103, 48625), (109, 48565), (110, 48562), (133, 48472), (141, 48439),

Gene: GaugeLDP_84 Start: 49819, Stop: 49439, Start Num: 68

Candidate Starts for GaugeLDP_84:

(Start: 54 @49861 has 1 MA's), (Start: 68 @49819 has 6 MA's), (90, 49741), (96, 49687), (99, 49681), (102, 49663), (103, 49660), (104, 49636), (109, 49600), (124, 49561), (131, 49516), (144, 49453),

Gene: Gemma_84 Start: 47825, Stop: 47436, Start Num: 82

Candidate Starts for Gemma_84:

(Start: 82 @47825 has 302 MA's), (96, 47708), (97, 47705), (113, 47606), (123, 47576),

Gene: Georgie2_90 Start: 49881, Stop: 49528, Start Num: 82

Candidate Starts for Georgie2_90:

(Start: 82 @49881 has 302 MA's), (Start: 89 @49845 has 1 MA's), (97, 49779), (104, 49731), (113, 49680), (117, 49665), (144, 49542),

Gene: Gilberta_89 Start: 47819, Stop: 47466, Start Num: 82

Candidate Starts for Gilberta_89:

(Start: 80 @47822 has 14 MA's), (Start: 82 @47819 has 302 MA's), (90, 47774), (94, 47741), (97, 47720), (101, 47705), (104, 47669), (118, 47600), (128, 47576), (144, 47480),

Gene: GingkoMaracino_86 Start: 47670, Stop: 47281, Start Num: 79

Candidate Starts for GingkoMaracino_86:

(Start: 79 @47670 has 4 MA's), (Start: 80 @47667 has 14 MA's), (Start: 82 @47664 has 302 MA's), (88, 47622), (96, 47547), (97, 47544), (113, 47445), (123, 47415),

Gene: Giroux_84 Start: 47970, Stop: 47551, Start Num: 62

Candidate Starts for Giroux_84:

(Start: 62 @47970 has 8 MA's), (Start: 76 @47940 has 59 MA's), (Start: 89 @47889 has 1 MA's), (104, 47775), (109, 47739), (138, 47604),

Gene: Gladiator_89 Start: 48504, Stop: 48124, Start Num: 76

Candidate Starts for Gladiator_89:

(42, 48606), (Start: 76 @48504 has 59 MA's), (Start: 84 @48483 has 8 MA's), (Start: 89 @48438 has 1 MA's), (90, 48426), (96, 48372), (101, 48357), (102, 48348), (103, 48345), (109, 48285), (110, 48282), (133, 48192), (141, 48159),

Gene: Glaske16_149 Start: 76045, Stop: 75638, Start Num: 59

Candidate Starts for Glaske16_149:

(Start: 59 @76045 has 18 MA's), (94, 75919), (97, 75895), (102, 75874), (103, 75871), (113, 75796), (121, 75775), (135, 75691), (141, 75673),

Gene: Goose_83 Start: 47878, Stop: 47471, Start Num: 65

Candidate Starts for Goose_83:

(Start: 65 @47878 has 16 MA's), (Start: 76 @47854 has 59 MA's), (94, 47761), (96, 47740), (100, 47731), (103, 47713), (109, 47653), (115, 47638), (138, 47524),

Gene: GreedyLawyer_84 Start: 48286, Stop: 47906, Start Num: 76

Candidate Starts for GreedyLawyer_84:

(42, 48388), (Start: 76 @48286 has 59 MA's), (Start: 84 @48265 has 8 MA's), (Start: 89 @48220 has 1 MA's), (90, 48208), (96, 48154), (101, 48139), (102, 48130), (109, 48067), (110, 48064), (133, 47974), (141, 47941),

Gene: Grif_84 Start: 47860, Stop: 47477, Start Num: 82

Candidate Starts for Grif_84:

(Start: 79 @47866 has 4 MA's), (Start: 80 @47863 has 14 MA's), (Start: 82 @47860 has 302 MA's), (88, 47818), (96, 47743), (97, 47740), (113, 47641), (123, 47611),

Gene: Groupthink_87 Start: 47827, Stop: 47438, Start Num: 82

Candidate Starts for Groupthink_87:

(Start: 82 @47827 has 302 MA's), (96, 47710), (97, 47707), (113, 47608),

Gene: Grub_84 Start: 47771, Stop: 47388, Start Num: 82

Candidate Starts for Grub_84:

(32, 47930), (55, 47840), (56, 47831), (Start: 67 @47801 has 1 MA's), (Start: 79 @47777 has 4 MA's), (Start: 82 @47771 has 302 MA's), (Start: 84 @47765 has 8 MA's), (96, 47654), (97, 47651), (113, 47552), (123, 47522),

Gene: Grum1_86 Start: 47786, Stop: 47403, Start Num: 82

Candidate Starts for Grum1_86:

(Start: 79 @47792 has 4 MA's), (Start: 80 @47789 has 14 MA's), (Start: 82 @47786 has 302 MA's), (88, 47744), (96, 47669), (97, 47666), (113, 47567), (123, 47537),

Gene: Gruunaga_93 Start: 48460, Stop: 48080, Start Num: 76

Candidate Starts for Gruunaga_93:

(42, 48562), (Start: 76 @48460 has 59 MA's), (Start: 84 @48439 has 8 MA's), (Start: 89 @48394 has 1 MA's), (90, 48382), (96, 48328), (101, 48313), (102, 48304), (103, 48301), (109, 48241), (110, 48238), (133, 48148), (141, 48115),

Gene: GtownJaz_86 Start: 47779, Stop: 47396, Start Num: 82

Candidate Starts for GtownJaz_86:

(32, 47938), (55, 47848), (56, 47839), (Start: 67 @47809 has 1 MA's), (Start: 79 @47785 has 4 MA's), (Start: 82 @47779 has 302 MA's), (Start: 84 @47773 has 8 MA's), (96, 47662), (97, 47659), (113, 47560), (123, 47530),

Gene: HINdeR_79 Start: 49892, Stop: 49458, Start Num: 64

Candidate Starts for HINdeR_79:

(Start: 64 @49892 has 6 MA's), (Start: 76 @49865 has 59 MA's), (77, 49862), (78, 49859), (Start: 84 @49844 has 8 MA's), (Start: 89 @49814 has 1 MA's), (93, 49796), (94, 49772), (104, 49700), (112, 49652), (114, 49649), (127, 49598),

Gene: HamSlice_79 Start: 48415, Stop: 48062, Start Num: 82

Candidate Starts for HamSlice_79:

(Start: 82 @48415 has 302 MA's), (Start: 89 @48379 has 1 MA's), (122, 48187), (128, 48172), (142, 48091), (144, 48076),

Gene: Hammer_93 Start: 48157, Stop: 47777, Start Num: 76

Candidate Starts for Hammer_93:

(42, 48259), (Start: 76 @48157 has 59 MA's), (Start: 84 @48136 has 8 MA's), (Start: 89 @48091 has 1 MA's), (90, 48079), (96, 48025), (101, 48010), (102, 48001), (103, 47998), (109, 47938), (110,

47935), (133, 47845), (141, 47812),

Gene: Happiness_82 Start: 48439, Stop: 48086, Start Num: 82

Candidate Starts for Happiness_82:

(Start: 82 @48439 has 302 MA's), (Start: 89 @48403 has 1 MA's), (96, 48340), (104, 48289), (112, 48241), (113, 48238), (122, 48211), (142, 48115), (144, 48100),

Gene: HarryHoudini_88 Start: 49289, Stop: 48936, Start Num: 82

Candidate Starts for HarryHoudini_88:

(Start: 82 @49289 has 302 MA's), (Start: 89 @49253 has 1 MA's), (97, 49187), (104, 49139), (117, 49073), (118, 49070), (128, 49046), (144, 48950),

Gene: HashRod_87 Start: 47808, Stop: 47425, Start Num: 82

Candidate Starts for HashRod_87:

(Start: 79 @47814 has 4 MA's), (Start: 80 @47811 has 14 MA's), (Start: 82 @47808 has 302 MA's), (88, 47766), (96, 47691), (97, 47688), (113, 47589), (123, 47559),

Gene: HaveUMetTed_87 Start: 47815, Stop: 47426, Start Num: 82

Candidate Starts for HaveUMetTed_87:

(Start: 82 @47815 has 302 MA's), (96, 47698), (97, 47695), (113, 47596),

Gene: Heathen_85 Start: 47689, Stop: 47270, Start Num: 62

Candidate Starts for Heathen_85:

(27, 47815), (Start: 62 @47689 has 8 MA's), (Start: 76 @47659 has 59 MA's), (Start: 89 @47608 has 1 MA's), (104, 47494), (109, 47458), (138, 47323),

Gene: Heffalump_85 Start: 49776, Stop: 49423, Start Num: 82

Candidate Starts for Heffalump_85:

(21, 49857), (Start: 82 @49776 has 302 MA's), (Start: 89 @49740 has 1 MA's), (97, 49674), (117, 49560), (144, 49437),

Gene: HelDan_85 Start: 47912, Stop: 47493, Start Num: 62

Candidate Starts for HelDan_85:

(27, 48038), (Start: 62 @47912 has 8 MA's), (Start: 76 @47882 has 59 MA's), (Start: 89 @47831 has 1 MA's), (104, 47717), (109, 47681), (138, 47546),

Gene: Heliosoles_84 Start: 47831, Stop: 47442, Start Num: 82

Candidate Starts for Heliosoles_84:

(Start: 82 @47831 has 302 MA's), (96, 47714), (97, 47711), (113, 47612),

Gene: Helmet_94 Start: 48763, Stop: 48404, Start Num: 84

Candidate Starts for Helmet_94:

(42, 48886), (Start: 76 @48784 has 59 MA's), (Start: 84 @48763 has 8 MA's), (Start: 89 @48718 has 1 MA's), (90, 48706), (96, 48652), (101, 48637), (102, 48628), (103, 48625), (109, 48565), (110, 48562), (133, 48472), (141, 48439),

Gene: Hercules11_86 Start: 47795, Stop: 47412, Start Num: 82

Candidate Starts for Hercules11_86:

(Start: 79 @47801 has 4 MA's), (Start: 80 @47798 has 14 MA's), (Start: 82 @47795 has 302 MA's), (88, 47753), (96, 47678), (97, 47675), (113, 47576), (123, 47546),

Gene: Hexamo_92 Start: 48325, Stop: 47945, Start Num: 76

Candidate Starts for Hexamo_92:

(42, 48427), (Start: 76 @48325 has 59 MA's), (Start: 84 @48304 has 8 MA's), (Start: 89 @48259 has 1 MA's), (90, 48247), (96, 48193), (101, 48178), (102, 48169), (103, 48166), (109, 48106), (110, 48103), (133, 48013), (141, 47980),

Gene: Holli_82 Start: 48206, Stop: 47853, Start Num: 82

Candidate Starts for Holli_82:

(Start: 82 @48206 has 302 MA's), (Start: 89 @48170 has 1 MA's), (122, 47978), (128, 47963), (142, 47882), (144, 47867),

Gene: Hookmount_85 Start: 47636, Stop: 47211, Start Num: 58

Candidate Starts for Hookmount_85:

(34, 47726), (Start: 58 @47636 has 7 MA's), (Start: 63 @47627 has 6 MA's), (Start: 76 @47600 has 59 MA's), (94, 47507), (134, 47279), (138, 47264),

Gene: Hoot_86 Start: 46170, Stop: 45790, Start Num: 76

Candidate Starts for Hoot_86:

(42, 46272), (Start: 76 @46170 has 59 MA's), (Start: 84 @46149 has 8 MA's), (Start: 89 @46104 has 1 MA's), (90, 46092), (96, 46038), (101, 46023), (102, 46014), (109, 45951), (110, 45948), (133, 45858), (141, 45825),

Gene: HortumSL17_92 Start: 49573, Stop: 49220, Start Num: 80

Candidate Starts for HortumSL17_92:

(Start: 80 @49573 has 14 MA's), (Start: 84 @49567 has 8 MA's), (Start: 89 @49537 has 1 MA's), (94, 49495), (96, 49474), (128, 49330), (144, 49234),

Gene: Houdini22_82 Start: 48417, Stop: 48064, Start Num: 82

Candidate Starts for Houdini22_82:

(Start: 82 @48417 has 302 MA's), (Start: 89 @48381 has 1 MA's), (96, 48318), (122, 48189), (128, 48174), (142, 48093), (144, 48078),

Gene: Hutc2_88 Start: 47683, Stop: 47330, Start Num: 82

Candidate Starts for Hutc2_88:

(Start: 80 @47686 has 14 MA's), (Start: 82 @47683 has 302 MA's), (90, 47638), (94, 47605), (97, 47584), (101, 47569), (104, 47533), (118, 47464), (128, 47440), (144, 47344),

Gene: ICleared_82 Start: 48484, Stop: 48131, Start Num: 82

Candidate Starts for ICleared_82:

(Start: 82 @48484 has 302 MA's), (Start: 89 @48448 has 1 MA's), (96, 48385), (117, 48268), (122, 48256), (142, 48160), (144, 48145),

Gene: IPhane7_147 Start: 75869, Stop: 75462, Start Num: 59

Candidate Starts for IPhane7_147:

(46, 75920), (Start: 59 @75869 has 18 MA's), (94, 75743), (97, 75719), (102, 75698), (103, 75695), (113, 75620), (121, 75599), (135, 75515), (141, 75497),

Gene: Iceman_81 Start: 48706, Stop: 48353, Start Num: 82

Candidate Starts for Iceman_81:

(Start: 82 @48706 has 302 MA's), (Start: 89 @48670 has 1 MA's), (122, 48478), (128, 48463), (142, 48382), (144, 48367),

Gene: Indra_96 Start: 48785, Stop: 48405, Start Num: 76

Candidate Starts for Indra_96:

(42, 48887), (Start: 76 @48785 has 59 MA's), (Start: 84 @48764 has 8 MA's), (Start: 89 @48719 has 1 MA's), (90, 48707), (96, 48653), (101, 48638), (102, 48629), (103, 48626), (109, 48566), (110, 48563), (133, 48473), (141, 48440),

Gene: Insomnia_91 Start: 48977, Stop: 48624, Start Num: 82

Candidate Starts for Insomnia_91:

(Start: 80 @48980 has 14 MA's), (Start: 82 @48977 has 302 MA's), (90, 48932), (94, 48899), (97, 48878), (101, 48863), (104, 48827), (118, 48758), (128, 48734), (144, 48638),

Gene: Iracema64_83 Start: 48680, Stop: 48327, Start Num: 82

Candidate Starts for Iracema64_83:

(Start: 82 @48680 has 302 MA's), (Start: 89 @48644 has 1 MA's), (96, 48581), (117, 48464), (122, 48452), (137, 48377), (142, 48356), (144, 48341),

Gene: IronMan_85 Start: 50258, Stop: 49899, Start Num: 84

Candidate Starts for IronMan_85:

(Start: 54 @50321 has 1 MA's), (Start: 69 @50279 has 1 MA's), (Start: 84 @50258 has 8 MA's), (85, 50252), (90, 50201), (96, 50147), (102, 50123), (103, 50120), (104, 50096), (109, 50060), (144, 49913),

Gene: Isca_81 Start: 46810, Stop: 46397, Start Num: 60

Candidate Starts for Isca_81:

(Start: 60 @46810 has 5 MA's), (110, 46582), (134, 46465), (138, 46450),

Gene: Isiphiwo_87 Start: 47875, Stop: 47495, Start Num: 76

Candidate Starts for Isiphiwo_87:

(42, 47977), (Start: 76 @47875 has 59 MA's), (Start: 84 @47854 has 8 MA's), (Start: 89 @47809 has 1 MA's), (90, 47797), (96, 47743), (101, 47728), (102, 47719), (109, 47656), (110, 47653), (133, 47563), (141, 47530),

Gene: Iwokeuplikedis_92 Start: 50075, Stop: 49692, Start Num: 68

Candidate Starts for Iwokeuplikedis_92:

(Start: 68 @50075 has 6 MA's), (Start: 69 @50072 has 1 MA's), (Start: 84 @50051 has 8 MA's), (90, 49994), (96, 49940), (102, 49916), (103, 49913), (104, 49889), (109, 49853), (128, 49802),

Gene: JHC117_81 Start: 47781, Stop: 47398, Start Num: 82

Candidate Starts for JHC117_81:

(Start: 79 @47787 has 4 MA's), (Start: 80 @47784 has 14 MA's), (Start: 82 @47781 has 302 MA's), (88, 47739), (96, 47664), (97, 47661), (113, 47562), (123, 47532),

Gene: Jaan_87 Start: 50396, Stop: 50016, Start Num: 68

Candidate Starts for Jaan_87:

(Start: 54 @50438 has 1 MA's), (Start: 68 @50396 has 6 MA's), (Start: 84 @50375 has 8 MA's), (96, 50264), (103, 50237), (104, 50213), (109, 50177), (131, 50093), (144, 50030),

Gene: Jabith_91 Start: 48991, Stop: 48638, Start Num: 82

Candidate Starts for Jabith_91:

(Start: 80 @48994 has 14 MA's), (Start: 82 @48991 has 302 MA's), (90, 48946), (94, 48913), (97, 48892), (101, 48877), (104, 48841), (118, 48772), (128, 48748), (144, 48652),

Gene: Jaykayelowell_80 Start: 48409, Stop: 48056, Start Num: 82

Candidate Starts for Jaykayelowell_80:

(Start: 82 @48409 has 302 MA's), (Start: 89 @48373 has 1 MA's), (96, 48310), (117, 48193), (122, 48181), (142, 48085), (144, 48070),

Gene: Jeeves_90 Start: 48017, Stop: 47664, Start Num: 82

Candidate Starts for Jeeves_90:

(28, 48074), (32, 48065), (40, 48035), (Start: 82 @48017 has 302 MA's), (Start: 84 @48011 has 8 MA's), (85, 48005), (Start: 89 @47981 has 1 MA's), (96, 47918), (103, 47891), (104, 47867), (112, 47819), (113, 47816), (122, 47789), (142, 47693), (144, 47678),

Gene: Jeffabunny_81 Start: 44928, Stop: 44548, Start Num: 76

Candidate Starts for Jeffabunny_81:

(42, 45030), (Start: 76 @44928 has 59 MA's), (Start: 84 @44907 has 8 MA's), (Start: 89 @44862 has 1 MA's), (90, 44850), (96, 44796), (101, 44781), (102, 44772), (103, 44769), (109, 44709), (110, 44706), (133, 44616), (141, 44583),

Gene: JenCasNa_87 Start: 47781, Stop: 47398, Start Num: 82

Candidate Starts for JenCasNa_87:

(Start: 79 @47787 has 4 MA's), (Start: 82 @47781 has 302 MA's), (88, 47739), (96, 47664), (97, 47661), (113, 47562), (123, 47532),

Gene: JeppNRM_87 Start: 47829, Stop: 47440, Start Num: 82

Candidate Starts for JeppNRM_87:

(Start: 82 @47829 has 302 MA's), (96, 47712), (97, 47709), (113, 47610),

Gene: Jerm_90 Start: 49956, Stop: 49603, Start Num: 82

Candidate Starts for Jerm_90:

(Start: 82 @49956 has 302 MA's), (Start: 89 @49920 has 1 MA's), (97, 49854), (104, 49806), (117, 49740), (144, 49617),

Gene: JetBlade_84 Start: 48444, Stop: 48091, Start Num: 82

Candidate Starts for JetBlade_84:

(Start: 82 @48444 has 302 MA's), (Start: 89 @48408 has 1 MA's), (96, 48345), (117, 48228), (122, 48216), (142, 48120), (144, 48105),

Gene: JewelBug_83 Start: 46649, Stop: 46269, Start Num: 76

Candidate Starts for JewelBug_83:

(42, 46751), (Start: 76 @46649 has 59 MA's), (Start: 84 @46628 has 8 MA's), (Start: 89 @46583 has 1 MA's), (90, 46571), (96, 46517), (101, 46502), (102, 46493), (109, 46430), (110, 46427), (133, 46337), (141, 46304),

Gene: Jobu08_82 Start: 47605, Stop: 47222, Start Num: 82

Candidate Starts for Jobu08_82:

(32, 47764), (55, 47674), (56, 47665), (Start: 67 @47635 has 1 MA's), (Start: 79 @47611 has 4 MA's), (Start: 82 @47605 has 302 MA's), (Start: 84 @47599 has 8 MA's), (96, 47488), (97, 47485), (113, 47386), (123, 47356),

Gene: JoongJeon_82 Start: 48410, Stop: 48057, Start Num: 82

Candidate Starts for JoongJeon_82:

(Start: 82 @48410 has 302 MA's), (Start: 89 @48374 has 1 MA's), (96, 48311), (122, 48182), (128, 48167), (142, 48086), (144, 48071),

Gene: Jordennis_89 Start: 48553, Stop: 48173, Start Num: 76

Candidate Starts for Jordennis_89:

(42, 48655), (Start: 76 @48553 has 59 MA's), (Start: 84 @48532 has 8 MA's), (Start: 89 @48487 has 1 MA's), (90, 48475), (96, 48421), (101, 48406), (102, 48397), (109, 48334), (110, 48331), (133, 48241), (141, 48208),

Gene: Joselito_89 Start: 48697, Stop: 48344, Start Num: 82

Candidate Starts for Joselito_89:

(Start: 80 @48700 has 14 MA's), (Start: 82 @48697 has 302 MA's), (90, 48652), (94, 48619), (97, 48598), (101, 48583), (104, 48547), (118, 48478), (128, 48454), (144, 48358),

Gene: JoshKayV_91 Start: 50301, Stop: 49948, Start Num: 82

Candidate Starts for JoshKayV_91:

(14, 50547), (29, 50469), (45, 50403), (47, 50397), (Start: 82 @50301 has 302 MA's), (Start: 89 @50265 has 1 MA's), (97, 50199), (104, 50151), (144, 49962),

Gene: Journey13_72 Start: 44230, Stop: 43841, Start Num: 68

Candidate Starts for Journey13_72:

(Start: 62 @44248 has 8 MA's), (Start: 68 @44230 has 6 MA's), (Start: 84 @44200 has 8 MA's), (96, 44089), (102, 44065), (116, 43981), (144, 43855),

Gene: Jsquared_93 Start: 49313, Stop: 48933, Start Num: 76

Candidate Starts for Jsquared_93:

(Start: 76 @49313 has 59 MA's), (Start: 84 @49292 has 8 MA's), (93, 49226), (94, 49202), (96, 49181), (102, 49157), (109, 49094), (128, 49043), (144, 48947),

Gene: KADY_83 Start: 47813, Stop: 47430, Start Num: 82

Candidate Starts for KADY_83:

(Start: 79 @47819 has 4 MA's), (Start: 80 @47816 has 14 MA's), (Start: 82 @47813 has 302 MA's), (88, 47771), (96, 47696), (97, 47693), (113, 47594), (123, 47564),

Gene: KFPoly_82 Start: 48410, Stop: 48057, Start Num: 82

Candidate Starts for KFPoly_82:

(Start: 82 @48410 has 302 MA's), (Start: 89 @48374 has 1 MA's), (122, 48182), (128, 48167), (142, 48086), (144, 48071),

Gene: Kalb97_87 Start: 47197, Stop: 46808, Start Num: 82

Candidate Starts for Kalb97_87:

(Start: 82 @47197 has 302 MA's), (96, 47080), (97, 47077), (113, 46978),

Gene: Kalnoky_87 Start: 47824, Stop: 47435, Start Num: 82

Candidate Starts for Kalnoky_87:

(Start: 82 @47824 has 302 MA's), (96, 47707), (97, 47704), (113, 47605),

Gene: Kalpine_91 Start: 50068, Stop: 49712, Start Num: 82

Candidate Starts for Kalpine_91:

(Start: 82 @50068 has 302 MA's), (Start: 89 @50032 has 1 MA's), (94, 49990), (98, 49963), (104, 49915), (110, 49876), (117, 49849), (122, 49837), (142, 49741), (144, 49726),

Gene: Kampy_82 Start: 48419, Stop: 48066, Start Num: 82

Candidate Starts for Kampy_82:

(Start: 82 @48419 has 302 MA's), (Start: 89 @48383 has 1 MA's), (96, 48320), (117, 48203), (122, 48191), (128, 48176), (142, 48095), (144, 48080),

Gene: Katalie136_79 Start: 48034, Stop: 47681, Start Num: 82

Candidate Starts for Katalie136_79:

(Start: 82 @48034 has 302 MA's), (Start: 89 @47998 has 1 MA's), (96, 47935), (101, 47920), (103, 47908), (104, 47884), (112, 47836), (122, 47806), (142, 47710), (144, 47695),

Gene: Kazan_92 Start: 48319, Stop: 47939, Start Num: 76

Candidate Starts for Kazan_92:

(42, 48421), (Start: 76 @48319 has 59 MA's), (Start: 84 @48298 has 8 MA's), (Start: 89 @48253 has 1 MA's), (90, 48241), (96, 48187), (101, 48172), (102, 48163), (109, 48100), (110, 48097), (133, 48007), (141, 47974),

Gene: Kerberos_90 Start: 49529, Stop: 49149, Start Num: 76

Candidate Starts for Kerberos_90:

(Start: 76 @49529 has 59 MA's), (93, 49442), (102, 49373), (103, 49370), (104, 49346),

Gene: Keziacharles14_88 Start: 50027, Stop: 49674, Start Num: 82

Candidate Starts for Keziacharles14_88:

(Start: 82 @50027 has 302 MA's), (Start: 84 @50021 has 8 MA's), (Start: 89 @49991 has 1 MA's), (94, 49949), (96, 49928), (104, 49877), (113, 49826), (117, 49811), (128, 49784),

Gene: Kimona_84 Start: 47534, Stop: 47076, Start Num: 64

Candidate Starts for Kimona_84:

(Start: 64 @47534 has 6 MA's), (Start: 76 @47507 has 59 MA's), (83, 47489), (93, 47438), (100, 47384), (103, 47366), (105, 47339), (110, 47303), (127, 47216), (129, 47195), (131, 47162), (135, 47138), (138, 47129), (139, 47126), (148, 47084),

Gene: KingCyrus_87 Start: 50958, Stop: 50605, Start Num: 82

Candidate Starts for KingCyrus_87:

(5, 51162), (6, 51159), (15, 51072), (21, 51039), (Start: 82 @50958 has 302 MA's), (Start: 89 @50922 has 1 MA's), (97, 50856), (104, 50808), (117, 50742), (144, 50619),

Gene: Kingmustik0402_83 Start: 48405, Stop: 48052, Start Num: 82

Candidate Starts for Kingmustik0402_83:

(Start: 82 @48405 has 302 MA's), (Start: 89 @48369 has 1 MA's), (96, 48306), (122, 48177), (128, 48162), (142, 48081), (144, 48066),

Gene: Kipper29_91 Start: 48328, Stop: 47948, Start Num: 76

Candidate Starts for Kipper29_91:

(42, 48430), (Start: 76 @48328 has 59 MA's), (Start: 84 @48307 has 8 MA's), (Start: 89 @48262 has 1 MA's), (90, 48250), (96, 48196), (101, 48181), (102, 48172), (109, 48109), (110, 48106), (133, 48016), (141, 47983),

Gene: KittenMittens_77 Start: 47234, Stop: 46827, Start Num: 65

Candidate Starts for KittenMittens_77:

(Start: 65 @47234 has 16 MA's), (Start: 76 @47210 has 59 MA's), (94, 47117), (96, 47096), (100, 47087), (103, 47069), (109, 47009), (115, 46994), (128, 46946), (134, 46895), (138, 46880),

Gene: Koduck_89 Start: 48626, Stop: 48246, Start Num: 76

Candidate Starts for Koduck_89:

(70, 48632), (Start: 76 @48626 has 59 MA's), (90, 48548), (93, 48539), (102, 48470), (107, 48422), (124, 48368),

Gene: Koko_94 Start: 49174, Stop: 48794, Start Num: 76

Candidate Starts for Koko_94:

(42, 49276), (Start: 76 @49174 has 59 MA's), (Start: 84 @49153 has 8 MA's), (Start: 89 @49108 has 1 MA's), (90, 49096), (96, 49042), (101, 49027), (102, 49018), (103, 49015), (109, 48955), (110, 48952), (133, 48862), (141, 48829),

Gene: Koreni_82 Start: 48097, Stop: 47744, Start Num: 82

Candidate Starts for Koreni_82:

(Start: 82 @48097 has 302 MA's), (Start: 89 @48061 has 1 MA's), (96, 47998), (122, 47869), (128, 47854), (142, 47773), (144, 47758),

Gene: Kratak_82 Start: 48450, Stop: 48097, Start Num: 82

Candidate Starts for Kratak_82:

(Start: 82 @48450 has 302 MA's), (Start: 89 @48414 has 1 MA's), (112, 48252), (122, 48222), (128, 48207), (137, 48147), (142, 48126), (144, 48111),

Gene: Kremtemulon_77 Start: 48296, Stop: 47943, Start Num: 82

Candidate Starts for Kremtemulon_77:

(Start: 82 @48296 has 302 MA's), (Start: 89 @48260 has 1 MA's), (112, 48098), (122, 48068), (128, 48053), (137, 47993), (142, 47972), (144, 47957),

Gene: Kristoff_80 Start: 48502, Stop: 48095, Start Num: 65

Candidate Starts for Kristoff_80:

(23, 48640), (Start: 65 @48502 has 16 MA's), (Start: 76 @48478 has 59 MA's), (94, 48385), (96, 48364), (100, 48355), (103, 48337), (109, 48277), (110, 48274), (112, 48265), (115, 48262), (128, 48214), (138, 48148),

Gene: Kumao_107 Start: 64881, Stop: 64531, Start Num: 82

Candidate Starts for Kumao_107:

(36, 64935), (Start: 82 @64881 has 302 MA's), (Start: 84 @64875 has 8 MA's), (85, 64869), (96, 64782), (97, 64779), (103, 64755), (113, 64680), (128, 64638), (140, 64566), (144, 64542), (146, 64536),

Gene: Kyee_83 Start: 48411, Stop: 48058, Start Num: 82

Candidate Starts for Kyee_83:

(Start: 82 @48411 has 302 MA's), (Start: 89 @48375 has 1 MA's), (96, 48312), (117, 48195), (122, 48183), (142, 48087), (144, 48072),

Gene: L5_82 Start: 48517, Stop: 48137, Start Num: 72

Candidate Starts for L5_82:

(Start: 72 @48517 has 1 MA's), (90, 48439), (93, 48430), (102, 48361), (107, 48313), (124, 48259),

Gene: LBerry_87 Start: 47782, Stop: 47399, Start Num: 82

Candidate Starts for LBerry_87:

(32, 47941), (55, 47851), (56, 47842), (Start: 67 @47812 has 1 MA's), (Start: 79 @47788 has 4 MA's), (Start: 82 @47782 has 302 MA's), (Start: 84 @47776 has 8 MA's), (96, 47665), (97, 47662), (113, 47563), (123, 47533),

Gene: LHTSCC_85 Start: 48856, Stop: 48503, Start Num: 82

Candidate Starts for LHTSCC_85:

(Start: 82 @48856 has 302 MA's), (Start: 89 @48820 has 1 MA's), (122, 48628), (128, 48613), (142, 48532), (144, 48517),

Gene: LadyBird_92 Start: 50113, Stop: 49766, Start Num: 82

Candidate Starts for LadyBird_92:

(Start: 82 @50113 has 302 MA's), (Start: 89 @50077 has 1 MA's), (97, 50011), (104, 49963), (117, 49897), (144, 49780),

Gene: Lambert1_85 Start: 47637, Stop: 47212, Start Num: 58

Candidate Starts for Lambert1_85:

(34, 47727), (Start: 58 @47637 has 7 MA's), (Start: 63 @47628 has 6 MA's), (Start: 76 @47601 has 59 MA's), (94, 47508), (134, 47280), (138, 47265),

Gene: Landor_86 Start: 50312, Stop: 49932, Start Num: 69

Candidate Starts for Landor_86:

(Start: 54 @50354 has 1 MA's), (Start: 69 @50312 has 1 MA's), (Start: 84 @50291 has 8 MA's), (90, 50234), (96, 50180), (102, 50156), (103, 50153), (104, 50129), (109, 50093), (144, 49946),

Gene: LappelDuVide_79 Start: 48416, Stop: 48063, Start Num: 82

Candidate Starts for LappelDuVide_79:

(Start: 82 @48416 has 302 MA's), (Start: 89 @48380 has 1 MA's), (122, 48188), (128, 48173), (142, 48092), (144, 48077),

Gene: Larenn_87 Start: 49449, Stop: 49096, Start Num: 82

Candidate Starts for Larenn_87:

(Start: 82 @49449 has 302 MA's), (Start: 84 @49443 has 8 MA's), (Start: 89 @49413 has 1 MA's), (97, 49347), (104, 49299), (128, 49206), (144, 49110),

Gene: LarryKay_86 Start: 47817, Stop: 47434, Start Num: 82

Candidate Starts for LarryKay_86:

(Start: 79 @47823 has 4 MA's), (Start: 80 @47820 has 14 MA's), (Start: 82 @47817 has 302 MA's), (88, 47775), (96, 47700), (97, 47697), (113, 47598), (123, 47568),

Gene: Lemur_83 Start: 48413, Stop: 48060, Start Num: 82

Candidate Starts for Lemur_83:

(Start: 82 @48413 has 302 MA's), (Start: 89 @48377 has 1 MA's), (96, 48314), (117, 48197), (122, 48185), (142, 48089), (144, 48074),

Gene: Leviathan_90 Start: 50037, Stop: 49684, Start Num: 82

Candidate Starts for Leviathan_90:

(21, 50118), (Start: 82 @50037 has 302 MA's), (Start: 89 @50001 has 1 MA's), (97, 49935), (104, 49887), (117, 49821), (144, 49698),

Gene: LilTurb_89 Start: 49833, Stop: 49480, Start Num: 82

Candidate Starts for LilTurb_89:

(45, 49935), (47, 49929), (Start: 82 @49833 has 302 MA's), (Start: 89 @49797 has 1 MA's), (97, 49731), (104, 49683), (117, 49617), (144, 49494),

Gene: Lilbunny_87 Start: 47011, Stop: 46652, Start Num: 84

Candidate Starts for Lilbunny_87:

(42, 47134), (Start: 76 @47032 has 59 MA's), (Start: 84 @47011 has 8 MA's), (Start: 89 @46966 has 1 MA's), (90, 46954), (96, 46900), (101, 46885), (102, 46876), (103, 46873), (109, 46813), (110, 46810), (133, 46720), (141, 46687),

Gene: LilhomieP_146 Start: 75956, Stop: 75549, Start Num: 59

Candidate Starts for LilhomieP_146:

(Start: 59 @75956 has 18 MA's), (94, 75830), (97, 75806), (102, 75785), (103, 75782), (113, 75707), (121, 75686), (135, 75602), (141, 75584),

Gene: Lilit_84 Start: 47771, Stop: 47388, Start Num: 82

Candidate Starts for Lilit_84:

(32, 47930), (55, 47840), (56, 47831), (Start: 67 @47801 has 1 MA's), (Start: 79 @47777 has 4 MA's), (Start: 82 @47771 has 302 MA's), (Start: 84 @47765 has 8 MA's), (96, 47654), (97, 47651), (113, 47552), (123, 47522),

Gene: LittleB_83 Start: 48417, Stop: 48064, Start Num: 82

Candidate Starts for LittleB_83:

(Start: 82 @48417 has 302 MA's), (Start: 89 @48381 has 1 MA's), (96, 48318), (117, 48201), (122, 48189), (142, 48093), (144, 48078),

Gene: LittleGuy_83 Start: 48307, Stop: 47954, Start Num: 82

Candidate Starts for LittleGuy_83:

(Start: 82 @48307 has 302 MA's), (Start: 89 @48271 has 1 MA's), (122, 48079), (128, 48064), (142, 47983), (144, 47968),

Gene: LochMonster_84 Start: 48653, Stop: 48300, Start Num: 82

Candidate Starts for LochMonster_84:

(Start: 82 @48653 has 302 MA's), (Start: 89 @48617 has 1 MA's), (96, 48554), (117, 48437), (122, 48425), (142, 48329), (144, 48314),

Gene: Lokk_84 Start: 47977, Stop: 47624, Start Num: 82

Candidate Starts for Lokk_84:

(Start: 82 @47977 has 302 MA's), (Start: 89 @47941 has 1 MA's), (97, 47875), (104, 47827), (117, 47761), (144, 47638),

Gene: LoneWolf_91 Start: 49562, Stop: 49209, Start Num: 81

Candidate Starts for LoneWolf_91:

(Start: 81 @49562 has 1 MA's), (Start: 89 @49526 has 1 MA's), (96, 49463), (104, 49412), (128, 49319), (144, 49223),

Gene: Lorenzo_83 Start: 48414, Stop: 48061, Start Num: 82

Candidate Starts for Lorenzo_83:

(Start: 82 @48414 has 302 MA's), (Start: 89 @48378 has 1 MA's), (96, 48315), (122, 48186), (128, 48171), (142, 48090), (144, 48075),

Gene: Loser_91 Start: 50233, Stop: 49880, Start Num: 43

Candidate Starts for Loser_91:

(Start: 43 @50233 has 3 MA's), (Start: 89 @50197 has 1 MA's), (97, 50131), (101, 50119), (104, 50083), (117, 50017), (118, 50014), (128, 49990), (144, 49894),

Gene: Louie6_85 Start: 47814, Stop: 47431, Start Num: 82

Candidate Starts for Louie6_85:

(Start: 79 @47820 has 4 MA's), (Start: 80 @47817 has 14 MA's), (Start: 82 @47814 has 302 MA's), (96, 47697), (97, 47694), (113, 47595), (123, 47565),

Gene: Luchador_87 Start: 49118, Stop: 48765, Start Num: 82

Candidate Starts for Luchador_87:

(28, 49175), (40, 49136), (Start: 82 @49118 has 302 MA's), (Start: 84 @49112 has 8 MA's), (85, 49106), (Start: 89 @49082 has 1 MA's), (96, 49019), (103, 48992), (104, 48968), (112, 48920), (113, 48917), (122, 48890), (142, 48794), (144, 48779),

Gene: Lucivia_92 Start: 48976, Stop: 48623, Start Num: 82

Candidate Starts for Lucivia_92:

(Start: 80 @48979 has 14 MA's), (Start: 82 @48976 has 302 MA's), (90, 48931), (94, 48898), (97, 48877), (101, 48862), (104, 48826), (118, 48757), (128, 48733), (144, 48637),

Gene: LugYA_89 Start: 47782, Stop: 47399, Start Num: 82

Candidate Starts for LugYA_89:

(Start: 79 @47788 has 4 MA's), (Start: 82 @47782 has 302 MA's), (88, 47740), (96, 47665), (97, 47662), (113, 47563), (123, 47533),

Gene: Lunsford_83 Start: 48409, Stop: 48056, Start Num: 82

Candidate Starts for Lunsford_83:

(Start: 82 @48409 has 302 MA's), (Start: 89 @48373 has 1 MA's), (96, 48310), (117, 48193), (122, 48181), (142, 48085), (144, 48070),

Gene: MaCh_91 Start: 48940, Stop: 48587, Start Num: 82

Candidate Starts for MaCh_91:

(Start: 80 @48943 has 14 MA's), (Start: 82 @48940 has 302 MA's), (90, 48895), (94, 48862), (97, 48841), (101, 48826), (104, 48790), (118, 48721), (128, 48697), (144, 48601),

Gene: Mabel_91 Start: 48941, Stop: 48588, Start Num: 82

Candidate Starts for Mabel_91:

(Start: 80 @48944 has 14 MA's), (Start: 82 @48941 has 302 MA's), (90, 48896), (94, 48863), (97, 48842), (101, 48827), (104, 48791), (118, 48722), (128, 48698), (144, 48602),

Gene: MadMarie_84 Start: 47779, Stop: 47396, Start Num: 82

Candidate Starts for MadMarie_84:

(32, 47938), (55, 47848), (56, 47839), (Start: 67 @47809 has 1 MA's), (Start: 79 @47785 has 4 MA's), (Start: 82 @47779 has 302 MA's), (Start: 84 @47773 has 8 MA's), (96, 47662), (97, 47659), (113, 47560), (123, 47530),

Gene: Mainiac_85 Start: 47771, Stop: 47388, Start Num: 82

Candidate Starts for Mainiac_85:

(32, 47930), (55, 47840), (56, 47831), (Start: 67 @47801 has 1 MA's), (Start: 79 @47777 has 4 MA's), (Start: 82 @47771 has 302 MA's), (Start: 84 @47765 has 8 MA's), (96, 47654), (97, 47651), (113, 47552), (123, 47522),

Gene: Malec_87 Start: 49857, Stop: 49504, Start Num: 82

Candidate Starts for Malec_87:

(Start: 82 @49857 has 302 MA's), (Start: 84 @49851 has 8 MA's), (Start: 89 @49821 has 1 MA's), (97, 49755), (104, 49707), (128, 49614), (144, 49518),

Gene: Malinsilva_89 Start: 47770, Stop: 47387, Start Num: 82

Candidate Starts for Malinsilva_89:

(32, 47929), (55, 47839), (56, 47830), (Start: 67 @47800 has 1 MA's), (Start: 79 @47776 has 4 MA's), (Start: 82 @47770 has 302 MA's), (Start: 84 @47764 has 8 MA's), (96, 47653), (97, 47650), (113, 47551), (123, 47521),

Gene: Maminiaina_90 Start: 49496, Stop: 49143, Start Num: 82

Candidate Starts for Maminiaina_90:

(Start: 82 @49496 has 302 MA's), (Start: 89 @49460 has 1 MA's), (94, 49418), (96, 49397), (128, 49253), (144, 49157),

Gene: Manu_86 Start: 47831, Stop: 47442, Start Num: 82
Candidate Starts for Manu_86:
(Start: 82 @47831 has 302 MA's), (96, 47714), (97, 47711), (113, 47612),

Gene: MarQuardt_86 Start: 47785, Stop: 47402, Start Num: 82
Candidate Starts for MarQuardt_86:
(Start: 79 @47791 has 4 MA's), (Start: 80 @47788 has 14 MA's), (Start: 82 @47785 has 302 MA's),
(88, 47743), (96, 47668), (97, 47665), (113, 47566), (123, 47536),

Gene: Margo_85 Start: 47653, Stop: 47237, Start Num: 63
Candidate Starts for Margo_85:
(34, 47752), (Start: 58 @47662 has 7 MA's), (Start: 63 @47653 has 6 MA's), (Start: 76 @47626 has
59 MA's), (94, 47533), (134, 47305), (138, 47290),

Gene: Marie_84 Start: 47781, Stop: 47398, Start Num: 82
Candidate Starts for Marie_84:
(Start: 79 @47787 has 4 MA's), (Start: 82 @47781 has 302 MA's), (88, 47739), (96, 47664), (97,
47661), (113, 47562), (123, 47532),

Gene: Marius_87 Start: 47824, Stop: 47435, Start Num: 82
Candidate Starts for Marius_87:
(Start: 82 @47824 has 302 MA's), (96, 47707), (97, 47704), (113, 47605),

Gene: Maverick_82 Start: 48413, Stop: 48060, Start Num: 82
Candidate Starts for Maverick_82:
(Start: 82 @48413 has 302 MA's), (Start: 89 @48377 has 1 MA's), (96, 48314), (122, 48185), (128,
48170), (142, 48089), (144, 48074),

Gene: Maxo_85 Start: 48419, Stop: 48066, Start Num: 82
Candidate Starts for Maxo_85:
(Start: 82 @48419 has 302 MA's), (Start: 89 @48383 has 1 MA's), (96, 48320), (117, 48203), (122,
48191), (128, 48176), (142, 48095), (144, 48080),

Gene: Mazhar510_83 Start: 48414, Stop: 48061, Start Num: 82
Candidate Starts for Mazhar510_83:
(Start: 82 @48414 has 302 MA's), (Start: 89 @48378 has 1 MA's), (96, 48315), (122, 48186), (128,
48171), (142, 48090), (144, 48075),

Gene: McFly_91 Start: 48658, Stop: 48278, Start Num: 76
Candidate Starts for McFly_91:
(42, 48760), (Start: 76 @48658 has 59 MA's), (Start: 84 @48637 has 8 MA's), (Start: 89 @48592 has
1 MA's), (90, 48580), (96, 48526), (101, 48511), (102, 48502), (109, 48439), (110, 48436), (133,
48346), (141, 48313),

Gene: Medusa_82 Start: 48429, Stop: 48076, Start Num: 82
Candidate Starts for Medusa_82:
(Start: 82 @48429 has 302 MA's), (Start: 89 @48393 has 1 MA's), (122, 48201), (128, 48186), (142,
48105), (144, 48090),

Gene: MeeZee_82 Start: 48410, Stop: 48057, Start Num: 82
Candidate Starts for MeeZee_82:
(Start: 82 @48410 has 302 MA's), (Start: 89 @48374 has 1 MA's), (117, 48194), (122, 48182), (128,
48167), (142, 48086), (144, 48071),

Gene: Melvin_85 Start: 48411, Stop: 48058, Start Num: 82

Candidate Starts for Melvin_85:

(Start: 82 @48411 has 302 MA's), (Start: 89 @48375 has 1 MA's), (96, 48312), (122, 48183), (128, 48168), (142, 48087), (144, 48072),

Gene: Methuselah_79 Start: 47807, Stop: 47424, Start Num: 82

Candidate Starts for Methuselah_79:

(Start: 79 @47813 has 4 MA's), (Start: 80 @47810 has 14 MA's), (Start: 82 @47807 has 302 MA's), (88, 47765), (96, 47690), (97, 47687), (113, 47588), (123, 47558),

Gene: Microwolf_82 Start: 47794, Stop: 47411, Start Num: 82

Candidate Starts for Microwolf_82:

(32, 47953), (55, 47863), (56, 47854), (Start: 67 @47824 has 1 MA's), (Start: 79 @47800 has 4 MA's), (Start: 82 @47794 has 302 MA's), (Start: 84 @47788 has 8 MA's), (96, 47677), (97, 47674), (113, 47575), (123, 47545),

Gene: MiculUcigas_88 Start: 48982, Stop: 48629, Start Num: 82

Candidate Starts for MiculUcigas_88:

(16, 49084), (19, 49078), (Start: 82 @48982 has 302 MA's), (Start: 89 @48946 has 1 MA's), (97, 48880), (104, 48832), (117, 48766), (128, 48739), (144, 48643),

Gene: Miko_85 Start: 48834, Stop: 48481, Start Num: 82

Candidate Starts for Miko_85:

(Start: 82 @48834 has 302 MA's), (Start: 89 @48798 has 1 MA's), (97, 48732), (104, 48684), (117, 48618), (144, 48495),

Gene: Millski_82 Start: 48417, Stop: 48064, Start Num: 82

Candidate Starts for Millski_82:

(Start: 82 @48417 has 302 MA's), (Start: 89 @48381 has 1 MA's), (117, 48201), (122, 48189), (128, 48174), (142, 48093), (144, 48078),

Gene: Miramae_83 Start: 48332, Stop: 47979, Start Num: 82

Candidate Starts for Miramae_83:

(Start: 82 @48332 has 302 MA's), (Start: 89 @48296 has 1 MA's), (96, 48233), (104, 48182), (112, 48134), (113, 48131), (117, 48116), (122, 48104), (142, 48008), (144, 47993),

Gene: Misomonster_82 Start: 45419, Stop: 45036, Start Num: 82

Candidate Starts for Misomonster_82:

(Start: 79 @45425 has 4 MA's), (Start: 80 @45422 has 14 MA's), (Start: 82 @45419 has 302 MA's), (88, 45377), (96, 45302), (97, 45299), (113, 45200), (123, 45170),

Gene: MissWhite_83 Start: 46326, Stop: 45973, Start Num: 82

Candidate Starts for MissWhite_83:

(35, 46449), (Start: 63 @46368 has 6 MA's), (Start: 82 @46326 has 302 MA's), (Start: 89 @46290 has 1 MA's), (95, 46245), (98, 46224), (99, 46221), (101, 46212), (104, 46176), (109, 46140), (144, 45987),

Gene: MoneyMay_86 Start: 47781, Stop: 47398, Start Num: 82

Candidate Starts for MoneyMay_86:

(Start: 79 @47787 has 4 MA's), (Start: 82 @47781 has 302 MA's), (88, 47739), (96, 47664), (97, 47661), (113, 47562), (123, 47532),

Gene: Morpher26_79 Start: 48055, Stop: 47702, Start Num: 82

Candidate Starts for Morpher26_79:

(Start: 82 @48055 has 302 MA's), (Start: 89 @48019 has 1 MA's), (96, 47956), (101, 47941), (103, 47929), (104, 47905), (112, 47857), (122, 47827), (142, 47731), (144, 47716),

Gene: Morrow_85 Start: 48456, Stop: 48103, Start Num: 82

Candidate Starts for Morrow_85:

(Start: 82 @48456 has 302 MA's), (Start: 89 @48420 has 1 MA's), (122, 48228), (128, 48213), (142, 48132), (144, 48117),

Gene: MrMagoo_167 Start: 79054, Stop: 78647, Start Num: 59

Candidate Starts for MrMagoo_167:

(37, 79135), (46, 79105), (Start: 59 @79054 has 18 MA's), (Start: 84 @79000 has 8 MA's), (91, 78958), (94, 78928), (96, 78907), (97, 78904), (99, 78901), (112, 78808), (113, 78805), (135, 78700),

Gene: Mulciber_90 Start: 48796, Stop: 48443, Start Num: 82

Candidate Starts for Mulciber_90:

(Start: 80 @48799 has 14 MA's), (Start: 82 @48796 has 302 MA's), (90, 48751), (94, 48718), (97, 48697), (101, 48682), (104, 48646), (118, 48577), (128, 48553), (144, 48457),

Gene: Munch_90 Start: 48945, Stop: 48592, Start Num: 82

Candidate Starts for Munch_90:

(Start: 80 @48948 has 14 MA's), (Start: 82 @48945 has 302 MA's), (90, 48900), (94, 48867), (97, 48846), (101, 48831), (104, 48795), (118, 48726), (128, 48702), (144, 48606),

Gene: Mundrea_81 Start: 48294, Stop: 47941, Start Num: 82

Candidate Starts for Mundrea_81:

(Start: 82 @48294 has 302 MA's), (Start: 89 @48258 has 1 MA's), (93, 48240), (96, 48195), (104, 48144), (112, 48096), (117, 48078), (122, 48066), (142, 47970), (144, 47955),

Gene: Myxus_91 Start: 49573, Stop: 49220, Start Num: 80

Candidate Starts for Myxus_91:

(Start: 80 @49573 has 14 MA's), (Start: 84 @49567 has 8 MA's), (Start: 89 @49537 has 1 MA's), (94, 49495), (96, 49474), (128, 49330), (144, 49234),

Gene: NaSiaTalie_89 Start: 49263, Stop: 48916, Start Num: 82

Candidate Starts for NaSiaTalie_89:

(16, 49365), (19, 49359), (Start: 82 @49263 has 302 MA's), (Start: 89 @49227 has 1 MA's), (97, 49161), (104, 49113), (117, 49047), (128, 49026), (144, 48930),

Gene: Nanosmite_164 Start: 78507, Stop: 78100, Start Num: 59

Candidate Starts for Nanosmite_164:

(Start: 59 @78507 has 18 MA's), (Start: 84 @78453 has 8 MA's), (94, 78381), (97, 78357), (109, 78273), (121, 78237), (126, 78228), (135, 78153), (140, 78138),

Gene: Nebs_84 Start: 48456, Stop: 48103, Start Num: 82

Candidate Starts for Nebs_84:

(Start: 82 @48456 has 302 MA's), (Start: 89 @48420 has 1 MA's), (96, 48357), (117, 48240), (122, 48228), (142, 48132), (144, 48117),

Gene: Neeharika16_90 Start: 48415, Stop: 48035, Start Num: 76

Candidate Starts for Neeharika16_90:

(42, 48517), (Start: 76 @48415 has 59 MA's), (Start: 84 @48394 has 8 MA's), (Start: 89 @48349 has 1 MA's), (90, 48337), (96, 48283), (101, 48268), (102, 48259), (109, 48196), (110, 48193), (133,

48103), (141, 48070),

Gene: Nemo27_82 Start: 48412, Stop: 48059, Start Num: 82

Candidate Starts for Nemo27_82:

(Start: 82 @48412 has 302 MA's), (Start: 89 @48376 has 1 MA's), (96, 48313), (122, 48184), (128, 48169), (142, 48088), (144, 48073),

Gene: Newrala_90 Start: 48761, Stop: 48381, Start Num: 76

Candidate Starts for Newrala_90:

(42, 48863), (Start: 76 @48761 has 59 MA's), (Start: 84 @48740 has 8 MA's), (Start: 89 @48695 has 1 MA's), (90, 48683), (96, 48629), (101, 48614), (102, 48605), (109, 48542), (110, 48539), (133, 48449), (141, 48416),

Gene: NicoleTera_87 Start: 49416, Stop: 49063, Start Num: 82

Candidate Starts for NicoleTera_87:

(41, 49518), (45, 49500), (53, 49491), (Start: 82 @49416 has 302 MA's), (Start: 89 @49380 has 1 MA's), (97, 49314), (104, 49266), (113, 49215), (117, 49200), (128, 49173), (144, 49077),

Gene: Noella_86 Start: 47638, Stop: 47213, Start Num: 58

Candidate Starts for Noella_86:

(34, 47728), (Start: 58 @47638 has 7 MA's), (Start: 63 @47629 has 6 MA's), (Start: 76 @47602 has 59 MA's), (94, 47509), (134, 47281), (138, 47266),

Gene: Noelle_80 Start: 48261, Stop: 47908, Start Num: 82

Candidate Starts for Noelle_80:

(Start: 82 @48261 has 302 MA's), (Start: 89 @48225 has 1 MA's), (96, 48162), (104, 48111), (112, 48063), (113, 48060), (122, 48033), (142, 47937), (144, 47922),

Gene: Norbert_81 Start: 47635, Stop: 47210, Start Num: 58

Candidate Starts for Norbert_81:

(34, 47725), (Start: 58 @47635 has 7 MA's), (Start: 63 @47626 has 6 MA's), (Start: 76 @47599 has 59 MA's), (94, 47506), (134, 47278), (138, 47263),

Gene: NorthStar_80 Start: 48416, Stop: 48063, Start Num: 82

Candidate Starts for NorthStar_80:

(Start: 82 @48416 has 302 MA's), (Start: 89 @48380 has 1 MA's), (96, 48317), (117, 48200), (122, 48188), (142, 48092), (144, 48077),

Gene: NotAPhaseMom_82 Start: 48417, Stop: 48064, Start Num: 82

Candidate Starts for NotAPhaseMom_82:

(Start: 82 @48417 has 302 MA's), (Start: 89 @48381 has 1 MA's), (96, 48318), (122, 48189), (128, 48174), (142, 48093), (144, 48078),

Gene: NothingSpecial_83 Start: 49297, Stop: 48917, Start Num: 76

Candidate Starts for NothingSpecial_83:

(Start: 76 @49297 has 59 MA's), (Start: 84 @49276 has 8 MA's), (96, 49165), (97, 49162), (103, 49138), (104, 49114), (109, 49078),

Gene: Nyxis_82 Start: 48301, Stop: 47948, Start Num: 82

Candidate Starts for Nyxis_82:

(Start: 82 @48301 has 302 MA's), (Start: 89 @48265 has 1 MA's), (96, 48202), (122, 48073), (128, 48058), (142, 47977), (144, 47962),

Gene: OKCentral2016_81 Start: 47305, Stop: 46898, Start Num: 65

Candidate Starts for OKCentral2016_81:

(Start: 65 @47305 has 16 MA's), (Start: 76 @47281 has 59 MA's), (94, 47188), (96, 47167), (100, 47158), (103, 47140), (109, 47080), (115, 47065), (138, 46951),

Gene: OKaNui_82 Start: 48467, Stop: 48114, Start Num: 82

Candidate Starts for OKaNui_82:

(Start: 82 @48467 has 302 MA's), (Start: 89 @48431 has 1 MA's), (122, 48239), (128, 48224), (142, 48143), (144, 48128),

Gene: Obama12_84 Start: 48840, Stop: 48487, Start Num: 82

Candidate Starts for Obama12_84:

(Start: 82 @48840 has 302 MA's), (Start: 89 @48804 has 1 MA's), (122, 48612), (128, 48597), (142, 48516), (144, 48501),

Gene: Odin_88 Start: 49191, Stop: 48811, Start Num: 76

Candidate Starts for Odin_88:

(8, 49443), (Start: 76 @49191 has 59 MA's), (Start: 84 @49170 has 8 MA's), (96, 49059), (99, 49053), (102, 49035), (107, 48987), (124, 48933),

Gene: Ohfah_84 Start: 48456, Stop: 48103, Start Num: 82

Candidate Starts for Ohfah_84:

(Start: 82 @48456 has 302 MA's), (Start: 89 @48420 has 1 MA's), (96, 48357), (117, 48240), (122, 48228), (142, 48132), (144, 48117),

Gene: OlanP_85 Start: 48002, Stop: 47613, Start Num: 82

Candidate Starts for OlanP_85:

(Start: 82 @48002 has 302 MA's), (96, 47885), (97, 47882), (113, 47783), (123, 47753),

Gene: Ollie_86 Start: 47649, Stop: 47266, Start Num: 82

Candidate Starts for Ollie_86:

(32, 47808), (55, 47718), (56, 47709), (Start: 67 @47679 has 1 MA's), (Start: 79 @47655 has 4 MA's), (Start: 82 @47649 has 302 MA's), (Start: 84 @47643 has 8 MA's), (96, 47532), (97, 47529), (113, 47430), (123, 47400),

Gene: Orange_91 Start: 48495, Stop: 48142, Start Num: 82

Candidate Starts for Orange_91:

(Start: 80 @48498 has 14 MA's), (Start: 82 @48495 has 302 MA's), (90, 48450), (94, 48417), (97, 48396), (101, 48381), (104, 48345), (118, 48276), (128, 48252), (144, 48156),

Gene: P28Green_86 Start: 47789, Stop: 47406, Start Num: 82

Candidate Starts for P28Green_86:

(Start: 79 @47795 has 4 MA's), (Start: 80 @47792 has 14 MA's), (Start: 82 @47789 has 302 MA's), (88, 47747), (96, 47672), (97, 47669), (113, 47570), (123, 47540),

Gene: PGHhamlin_88 Start: 47770, Stop: 47387, Start Num: 82

Candidate Starts for PGHhamlin_88:

(32, 47929), (55, 47839), (56, 47830), (Start: 67 @47800 has 1 MA's), (Start: 79 @47776 has 4 MA's), (Start: 82 @47770 has 302 MA's), (Start: 84 @47764 has 8 MA's), (96, 47653), (97, 47650), (113, 47551), (123, 47521),

Gene: PP_01 Start: 413, Stop: 3, Start Num: 64

Candidate Starts for PP_01:

(39, 497), (Start: 64 @413 has 6 MA's), (Start: 76 @389 has 59 MA's), (85, 362), (93, 320), (97, 272), (103, 248), (105, 221), (109, 188), (112, 176), (134, 71), (145, 20),

Gene: PackMan_86 Start: 47487, Stop: 47134, Start Num: 80

Candidate Starts for PackMan_86:

(Start: 80 @47487 has 14 MA's), (Start: 84 @47481 has 8 MA's), (Start: 89 @47451 has 1 MA's), (94, 47409), (96, 47388), (128, 47244), (144, 47148),

Gene: Palestino_82 Start: 48413, Stop: 48060, Start Num: 82

Candidate Starts for Palestino_82:

(Start: 82 @48413 has 302 MA's), (Start: 89 @48377 has 1 MA's), (96, 48314), (122, 48185), (128, 48170), (142, 48089), (144, 48074),

Gene: Panamaxus_81 Start: 47628, Stop: 47212, Start Num: 63

Candidate Starts for Panamaxus_81:

(34, 47727), (Start: 58 @47637 has 7 MA's), (Start: 63 @47628 has 6 MA's), (Start: 76 @47601 has 59 MA's), (94, 47508), (134, 47280), (138, 47265),

Gene: Pawn_85 Start: 47831, Stop: 47442, Start Num: 82

Candidate Starts for Pawn_85:

(Start: 82 @47831 has 302 MA's), (96, 47714), (97, 47711), (113, 47612),

Gene: PeaceMeal1_79 Start: 47235, Stop: 46828, Start Num: 65

Candidate Starts for PeaceMeal1_79:

(Start: 65 @47235 has 16 MA's), (Start: 76 @47211 has 59 MA's), (94, 47118), (96, 47097), (100, 47088), (103, 47070), (109, 47010), (115, 46995), (128, 46947), (134, 46896), (138, 46881),

Gene: Peaches_81 Start: 48421, Stop: 48068, Start Num: 82

Candidate Starts for Peaches_81:

(Start: 82 @48421 has 302 MA's), (Start: 89 @48385 has 1 MA's), (96, 48322), (122, 48193), (128, 48178), (142, 48097), (144, 48082),

Gene: PegLeg_150 Start: 75840, Stop: 75433, Start Num: 59

Candidate Starts for PegLeg_150:

(Start: 59 @75840 has 18 MA's), (94, 75714), (97, 75690), (102, 75669), (103, 75666), (113, 75591), (121, 75570), (135, 75486), (141, 75468),

Gene: Pembroke_86 Start: 47779, Stop: 47396, Start Num: 82

Candidate Starts for Pembroke_86:

(32, 47938), (55, 47848), (56, 47839), (Start: 67 @47809 has 1 MA's), (Start: 79 @47785 has 4 MA's), (Start: 82 @47779 has 302 MA's), (Start: 84 @47773 has 8 MA's), (96, 47662), (97, 47659), (113, 47560), (123, 47530),

Gene: Penny1_86 Start: 47787, Stop: 47404, Start Num: 82

Candidate Starts for Penny1_86:

(Start: 79 @47793 has 4 MA's), (Start: 80 @47790 has 14 MA's), (Start: 82 @47787 has 302 MA's), (88, 47745), (96, 47670), (97, 47667), (113, 47568), (123, 47538),

Gene: Perplexer_79 Start: 48035, Stop: 47682, Start Num: 82

Candidate Starts for Perplexer_79:

(Start: 82 @48035 has 302 MA's), (Start: 89 @47999 has 1 MA's), (96, 47936), (101, 47921), (103, 47909), (104, 47885), (112, 47837), (122, 47807), (142, 47711), (144, 47696),

Gene: PeterPeter_83 Start: 48410, Stop: 48057, Start Num: 82
Candidate Starts for PeterPeter_83:
(Start: 82 @48410 has 302 MA's), (Start: 89 @48374 has 1 MA's), (96, 48311), (117, 48194), (122, 48182), (142, 48086), (144, 48071),

Gene: Petersenfast_85 Start: 47376, Stop: 47023, Start Num: 82
Candidate Starts for Petersenfast_85:
(Start: 80 @47379 has 14 MA's), (Start: 82 @47376 has 302 MA's), (90, 47331), (94, 47298), (97, 47277), (101, 47262), (104, 47226), (118, 47157), (128, 47133), (144, 47037),

Gene: PetiteSangsue_79 Start: 48038, Stop: 47685, Start Num: 82
Candidate Starts for PetiteSangsue_79:
(Start: 82 @48038 has 302 MA's), (Start: 89 @48002 has 1 MA's), (96, 47939), (101, 47924), (103, 47912), (104, 47888), (112, 47840), (122, 47810), (142, 47714), (144, 47699),

Gene: Ph8s_91 Start: 48979, Stop: 48599, Start Num: 76
Candidate Starts for Ph8s_91:
(Start: 76 @48979 has 59 MA's), (Start: 84 @48958 has 8 MA's), (90, 48901), (93, 48892), (96, 48847), (102, 48823), (107, 48775),

Gene: Phacado_83 Start: 48412, Stop: 48059, Start Num: 82
Candidate Starts for Phacado_83:
(Start: 82 @48412 has 302 MA's), (Start: 89 @48376 has 1 MA's), (96, 48313), (122, 48184), (128, 48169), (142, 48088), (144, 48073),

Gene: Phaded_82 Start: 50321, Stop: 49899, Start Num: 54
Candidate Starts for Phaded_82:
(Start: 54 @50321 has 1 MA's), (Start: 68 @50279 has 6 MA's), (Start: 84 @50258 has 8 MA's), (96, 50147), (103, 50120), (104, 50096), (106, 50081), (109, 50060), (131, 49976), (144, 49913),

Gene: Phaeder_91 Start: 49448, Stop: 49095, Start Num: 80
Candidate Starts for Phaeder_91:
(Start: 80 @49448 has 14 MA's), (Start: 84 @49442 has 8 MA's), (Start: 89 @49412 has 1 MA's), (94, 49370), (96, 49349), (128, 49205), (144, 49109),

Gene: Phantastic_86 Start: 47138, Stop: 46725, Start Num: 60
Candidate Starts for Phantastic_86:
(34, 47234), (Start: 58 @47144 has 7 MA's), (Start: 60 @47138 has 5 MA's), (94, 47021), (99, 46994), (110, 46910), (134, 46793), (138, 46778),

Gene: Phelipe_83 Start: 48377, Stop: 48024, Start Num: 82
Candidate Starts for Phelipe_83:
(Start: 82 @48377 has 302 MA's), (Start: 89 @48341 has 1 MA's), (96, 48278), (117, 48161), (122, 48149), (142, 48053), (144, 48038),

Gene: Phighter1804_83 Start: 48477, Stop: 48124, Start Num: 82
Candidate Starts for Phighter1804_83:
(Start: 82 @48477 has 302 MA's), (Start: 89 @48441 has 1 MA's), (112, 48279), (122, 48249), (128, 48234), (137, 48174), (142, 48153), (144, 48138),

Gene: PhishRPhriends_83 Start: 47011, Stop: 46622, Start Num: 82
Candidate Starts for PhishRPhriends_83:
(Start: 82 @47011 has 302 MA's), (96, 46894), (97, 46891), (113, 46792),

Gene: Phoebe_87 Start: 47779, Stop: 47396, Start Num: 82

Candidate Starts for Phoebe_87:

(Start: 79 @47785 has 4 MA's), (Start: 80 @47782 has 14 MA's), (Start: 82 @47779 has 302 MA's), (88, 47737), (96, 47662), (97, 47659), (113, 47560), (123, 47530),

Gene: Phonnegut_91 Start: 49454, Stop: 49107, Start Num: 84

Candidate Starts for Phonnegut_91:

(Start: 80 @49460 has 14 MA's), (Start: 84 @49454 has 8 MA's), (Start: 89 @49424 has 1 MA's), (94, 49382), (96, 49361), (128, 49217), (144, 49121),

Gene: Phontbonne_83 Start: 48317, Stop: 47964, Start Num: 82

Candidate Starts for Phontbonne_83:

(Start: 82 @48317 has 302 MA's), (Start: 89 @48281 has 1 MA's), (122, 48089), (128, 48074), (142, 47993), (144, 47978),

Gene: Phranny_79 Start: 45279, Stop: 44890, Start Num: 82

Candidate Starts for Phranny_79:

(Start: 82 @45279 has 302 MA's), (96, 45162), (97, 45159), (113, 45060),

Gene: Phrappuccino_6 Start: 6232, Stop: 6651, Start Num: 71

Candidate Starts for Phrappuccino_6:

(1, 5695), (2, 5776), (12, 5992), (51, 6175), (Start: 71 @6232 has 3 MA's), (87, 6283), (90, 6316), (94, 6349), (95, 6352), (108, 6445), (109, 6457), (111, 6466), (120, 6502), (131, 6562), (142, 6613), (143, 6622),

Gene: Pioneer_91 Start: 49454, Stop: 49107, Start Num: 84

Candidate Starts for Pioneer_91:

(Start: 80 @49460 has 14 MA's), (Start: 84 @49454 has 8 MA's), (Start: 89 @49424 has 1 MA's), (94, 49382), (96, 49361), (128, 49217), (144, 49121),

Gene: Pipcraft_79 Start: 48417, Stop: 48064, Start Num: 82

Candidate Starts for Pipcraft_79:

(Start: 82 @48417 has 302 MA's), (Start: 89 @48381 has 1 MA's), (96, 48318), (122, 48189), (128, 48174), (142, 48093), (144, 48078),

Gene: Piro94_87 Start: 49217, Stop: 48864, Start Num: 82

Candidate Starts for Piro94_87:

(4, 49427), (16, 49319), (19, 49313), (Start: 82 @49217 has 302 MA's), (Start: 89 @49181 has 1 MA's), (97, 49115), (104, 49067), (113, 49016), (117, 49001), (118, 48998), (128, 48974), (144, 48878),

Gene: Pistachio_86 Start: 47518, Stop: 47099, Start Num: 62

Candidate Starts for Pistachio_86:

(Start: 62 @47518 has 8 MA's), (Start: 76 @47488 has 59 MA's), (Start: 89 @47437 has 1 MA's), (104, 47323), (109, 47287), (138, 47152),

Gene: Pmask_90 Start: 48962, Stop: 48582, Start Num: 76

Candidate Starts for Pmask_90:

(42, 49064), (Start: 76 @48962 has 59 MA's), (Start: 84 @48941 has 8 MA's), (Start: 89 @48896 has 1 MA's), (90, 48884), (96, 48830), (101, 48815), (102, 48806), (109, 48743), (110, 48740), (133, 48650), (141, 48617),

Gene: Pocahontas_84 Start: 47633, Stop: 47208, Start Num: 58

Candidate Starts for Pocahontas_84:

(34, 47723), (Start: 58 @47633 has 7 MA's), (Start: 63 @47624 has 6 MA's), (Start: 76 @47597 has 59 MA's), (94, 47504), (134, 47276), (138, 47261),

Gene: Polymorphads_84 Start: 48437, Stop: 48084, Start Num: 82

Candidate Starts for Polymorphads_84:

(Start: 82 @48437 has 302 MA's), (Start: 89 @48401 has 1 MA's), (122, 48209), (128, 48194), (142, 48113), (144, 48098),

Gene: Pomar16_90 Start: 49602, Stop: 49222, Start Num: 76

Candidate Starts for Pomar16_90:

(Start: 76 @49602 has 59 MA's), (93, 49515), (102, 49446), (103, 49443), (104, 49419),

Gene: Poompha_79 Start: 47233, Stop: 46826, Start Num: 65

Candidate Starts for Poompha_79:

(Start: 65 @47233 has 16 MA's), (Start: 76 @47209 has 59 MA's), (94, 47116), (96, 47095), (100, 47086), (103, 47068), (109, 47008), (115, 46993), (128, 46945), (134, 46894), (138, 46879),

Gene: Popcicle_85 Start: 47633, Stop: 47208, Start Num: 58

Candidate Starts for Popcicle_85:

(34, 47723), (Start: 58 @47633 has 7 MA's), (Start: 63 @47624 has 6 MA's), (Start: 76 @47597 has 59 MA's), (94, 47504), (134, 47276), (138, 47261),

Gene: PotatoSplit_87 Start: 47787, Stop: 47404, Start Num: 82

Candidate Starts for PotatoSplit_87:

(Start: 79 @47793 has 4 MA's), (Start: 80 @47790 has 14 MA's), (Start: 82 @47787 has 302 MA's), (88, 47745), (96, 47670), (97, 47667), (113, 47568), (123, 47538),

Gene: Power_88 Start: 49880, Stop: 49527, Start Num: 82

Candidate Starts for Power_88:

(Start: 82 @49880 has 302 MA's), (Start: 89 @49844 has 1 MA's), (97, 49778), (104, 49730), (113, 49679), (117, 49664), (144, 49541),

Gene: Priamo_92 Start: 48199, Stop: 47819, Start Num: 76

Candidate Starts for Priamo_92:

(26, 48337), (Start: 58 @48232 has 7 MA's), (Start: 76 @48199 has 59 MA's), (Start: 84 @48178 has 8 MA's), (Start: 89 @48133 has 1 MA's), (90, 48121), (96, 48067), (101, 48052), (102, 48043), (103, 48040), (109, 47980), (110, 47977), (133, 47887), (141, 47854),

Gene: Priya_89 Start: 49232, Stop: 48879, Start Num: 80

Candidate Starts for Priya_89:

(Start: 80 @49232 has 14 MA's), (Start: 84 @49226 has 8 MA's), (Start: 89 @49196 has 1 MA's), (94, 49154), (96, 49133), (128, 48989), (144, 48893),

Gene: Pukovnik_83 Start: 49753, Stop: 49373, Start Num: 68

Candidate Starts for Pukovnik_83:

(Start: 54 @49783 has 1 MA's), (Start: 68 @49753 has 6 MA's), (Start: 84 @49732 has 8 MA's), (90, 49675), (96, 49621), (102, 49597), (104, 49570), (106, 49555), (109, 49534), (124, 49495), (131, 49450), (144, 49387),

Gene: Pumbaa_83 Start: 48361, Stop: 48008, Start Num: 82

Candidate Starts for Pumbaa_83:

(Start: 82 @48361 has 302 MA's), (Start: 89 @48325 has 1 MA's), (96, 48262), (122, 48133), (128, 48118), (142, 48037), (144, 48022),

Gene: Puppy_87 Start: 47588, Stop: 47169, Start Num: 62

Candidate Starts for Puppy_87:

(Start: 62 @47588 has 8 MA's), (Start: 76 @47558 has 59 MA's), (Start: 89 @47507 has 1 MA's), (104, 47393), (109, 47357), (138, 47222),

Gene: Qobbit_89 Start: 49194, Stop: 48841, Start Num: 80

Candidate Starts for Qobbit_89:

(Start: 80 @49194 has 14 MA's), (Start: 84 @49188 has 8 MA's), (Start: 89 @49158 has 1 MA's), (94, 49116), (96, 49095), (128, 48951), (144, 48855),

Gene: QueenB2_85 Start: 48968, Stop: 48615, Start Num: 82

Candidate Starts for QueenB2_85:

(Start: 82 @48968 has 302 MA's), (Start: 89 @48932 has 1 MA's), (99, 48863), (103, 48842), (104, 48818), (117, 48752), (144, 48629),

Gene: QueenBeesly_88 Start: 49833, Stop: 49480, Start Num: 82

Candidate Starts for QueenBeesly_88:

(Start: 82 @49833 has 302 MA's), (Start: 89 @49797 has 1 MA's), (97, 49731), (104, 49683), (113, 49632), (144, 49494),

Gene: QuinnKiro_84 Start: 47627, Stop: 47211, Start Num: 63

Candidate Starts for QuinnKiro_84:

(34, 47726), (Start: 58 @47636 has 7 MA's), (Start: 63 @47627 has 6 MA's), (Start: 76 @47600 has 59 MA's), (94, 47507), (134, 47279), (138, 47264),

Gene: RGL3_54 Start: 39978, Stop: 39625, Start Num: 82

Candidate Starts for RGL3_54:

(Start: 82 @39978 has 302 MA's), (101, 39864), (103, 39852), (108, 39804), (112, 39780),

Gene: Rachaly_86 Start: 48977, Stop: 48624, Start Num: 82

Candidate Starts for Rachaly_86:

(Start: 82 @48977 has 302 MA's), (Start: 89 @48941 has 1 MA's), (97, 48875), (104, 48827), (117, 48761), (144, 48638),

Gene: Rahalelujah_90 Start: 48992, Stop: 48639, Start Num: 82

Candidate Starts for Rahalelujah_90:

(Start: 82 @48992 has 302 MA's), (Start: 89 @48956 has 1 MA's), (94, 48914), (110, 48803), (117, 48776), (144, 48653),

Gene: Reba_82 Start: 46667, Stop: 46278, Start Num: 82

Candidate Starts for Reba_82:

(Start: 82 @46667 has 302 MA's), (96, 46550), (97, 46547), (113, 46448),

Gene: Rebeuca_83 Start: 48503, Stop: 48096, Start Num: 65

Candidate Starts for Rebeuca_83:

(23, 48641), (Start: 65 @48503 has 16 MA's), (Start: 76 @48479 has 59 MA's), (94, 48386), (96, 48365), (100, 48356), (103, 48338), (109, 48278), (110, 48275), (112, 48266), (115, 48263), (128, 48215), (138, 48149),

Gene: RedRock_89 Start: 49991, Stop: 49638, Start Num: 43

Candidate Starts for RedRock_89:

(Start: 43 @49991 has 3 MA's), (Start: 89 @49955 has 1 MA's), (97, 49889), (104, 49841), (117, 49775), (118, 49772), (144, 49652),

Gene: Refuge_83 Start: 49309, Stop: 48926, Start Num: 76

Candidate Starts for Refuge_83:

(48, 49387), (Start: 76 @49309 has 59 MA's), (Start: 84 @49288 has 8 MA's), (94, 49198), (102, 49153), (103, 49150), (104, 49126), (109, 49090), (110, 49087), (116, 49069),

Gene: Reindeer_148 Start: 77080, Stop: 76673, Start Num: 59

Candidate Starts for Reindeer_148:

(Start: 59 @77080 has 18 MA's), (91, 76984), (94, 76954), (97, 76930), (102, 76909), (104, 76882), (108, 76858), (109, 76846), (110, 76843), (135, 76726), (141, 76708),

Gene: Relief_82 Start: 48413, Stop: 48060, Start Num: 82

Candidate Starts for Relief_82:

(Start: 82 @48413 has 302 MA's), (Start: 89 @48377 has 1 MA's), (96, 48314), (117, 48197), (122, 48185), (142, 48089), (144, 48074),

Gene: ResDef_83 Start: 47630, Stop: 47214, Start Num: 63

Candidate Starts for ResDef_83:

(34, 47729), (Start: 58 @47639 has 7 MA's), (Start: 63 @47630 has 6 MA's), (Start: 76 @47603 has 59 MA's), (94, 47510), (134, 47282), (138, 47267),

Gene: Retro23_88 Start: 49379, Stop: 49026, Start Num: 82

Candidate Starts for Retro23_88:

(Start: 82 @49379 has 302 MA's), (Start: 89 @49343 has 1 MA's), (97, 49277), (117, 49163), (144, 49040),

Gene: Rey_165 Start: 78264, Stop: 77857, Start Num: 59

Candidate Starts for Rey_165:

(37, 78345), (46, 78315), (Start: 59 @78264 has 18 MA's), (Start: 84 @78210 has 8 MA's), (91, 78168), (96, 78117), (97, 78114), (99, 78111), (109, 78030), (112, 78018), (113, 78015), (135, 77910),

Gene: RhynO_70 Start: 43938, Stop: 43531, Start Num: 65

Candidate Starts for RhynO_70:

(23, 44085), (Start: 65 @43938 has 16 MA's), (Start: 76 @43914 has 59 MA's), (94, 43821), (103, 43773), (109, 43713), (119, 43683), (125, 43665),

Gene: Rifter_93 Start: 47952, Stop: 47572, Start Num: 76

Candidate Starts for Rifter_93:

(42, 48054), (Start: 76 @47952 has 59 MA's), (Start: 84 @47931 has 8 MA's), (Start: 89 @47886 has 1 MA's), (90, 47874), (96, 47820), (101, 47805), (102, 47796), (103, 47793), (109, 47733), (110, 47730), (133, 47640), (141, 47607),

Gene: Rockstar_73 Start: 44617, Stop: 44204, Start Num: 60

Candidate Starts for Rockstar_73:

(Start: 60 @44617 has 5 MA's), (94, 44500), (110, 44389), (134, 44272), (138, 44257),

Gene: Roksolana_93 Start: 48647, Stop: 48288, Start Num: 84

Candidate Starts for Roksolana_93:

(42, 48770), (Start: 76 @48668 has 59 MA's), (Start: 84 @48647 has 8 MA's), (Start: 89 @48602 has 1 MA's), (90, 48590), (96, 48536), (101, 48521), (102, 48512), (103, 48509), (109, 48449), (110,

48446), (133, 48356), (141, 48323),

Gene: Romney_82 Start: 48413, Stop: 48060, Start Num: 82

Candidate Starts for Romney_82:

(Start: 82 @48413 has 302 MA's), (Start: 89 @48377 has 1 MA's), (96, 48314), (117, 48197), (122, 48185), (142, 48089), (144, 48074),

Gene: Roosevelt_81 Start: 48418, Stop: 48065, Start Num: 82

Candidate Starts for Roosevelt_81:

(Start: 82 @48418 has 302 MA's), (Start: 89 @48382 has 1 MA's), (122, 48190), (128, 48175), (142, 48094), (144, 48079),

Gene: Ruin_83 Start: 48409, Stop: 48056, Start Num: 82

Candidate Starts for Ruin_83:

(Start: 82 @48409 has 302 MA's), (Start: 89 @48373 has 1 MA's), (96, 48310), (117, 48193), (122, 48181), (142, 48085), (144, 48070),

Gene: Rummer_85 Start: 47811, Stop: 47428, Start Num: 82

Candidate Starts for Rummer_85:

(Start: 79 @47817 has 4 MA's), (Start: 80 @47814 has 14 MA's), (Start: 82 @47811 has 302 MA's), (88, 47769), (96, 47694), (97, 47691), (113, 47592), (123, 47562),

Gene: Sabertooth_83 Start: 48421, Stop: 48068, Start Num: 82

Candidate Starts for Sabertooth_83:

(Start: 82 @48421 has 302 MA's), (Start: 89 @48385 has 1 MA's), (96, 48322), (117, 48205), (122, 48193), (142, 48097), (144, 48082),

Gene: Sabia_84 Start: 47786, Stop: 47403, Start Num: 82

Candidate Starts for Sabia_84:

(32, 47945), (55, 47855), (56, 47846), (Start: 67 @47816 has 1 MA's), (Start: 79 @47792 has 4 MA's), (Start: 82 @47786 has 302 MA's), (Start: 84 @47780 has 8 MA's), (96, 47669), (97, 47666), (113, 47567), (123, 47537),

Gene: Sabinator_84 Start: 47785, Stop: 47402, Start Num: 82

Candidate Starts for Sabinator_84:

(Start: 79 @47791 has 4 MA's), (Start: 80 @47788 has 14 MA's), (Start: 82 @47785 has 302 MA's), (88, 47743), (96, 47668), (97, 47665), (113, 47566), (123, 47536),

Gene: Salz_87 Start: 47605, Stop: 47252, Start Num: 82

Candidate Starts for Salz_87:

(Start: 80 @47608 has 14 MA's), (Start: 82 @47605 has 302 MA's), (90, 47560), (94, 47527), (97, 47506), (101, 47491), (104, 47455), (118, 47386), (128, 47362), (144, 47266),

Gene: SaturnRing_87 Start: 47971, Stop: 47552, Start Num: 62

Candidate Starts for SaturnRing_87:

(Start: 62 @47971 has 8 MA's), (Start: 76 @47941 has 59 MA's), (Start: 89 @47890 has 1 MA's), (104, 47776), (109, 47740), (138, 47605),

Gene: Scamp_83 Start: 48418, Stop: 48065, Start Num: 82

Candidate Starts for Scamp_83:

(Start: 82 @48418 has 302 MA's), (Start: 89 @48382 has 1 MA's), (96, 48319), (117, 48202), (122, 48190), (142, 48094), (144, 48079),

Gene: Scherzo_89 Start: 49492, Stop: 49139, Start Num: 80

Candidate Starts for Scherzo_89:

(Start: 80 @49492 has 14 MA's), (Start: 84 @49486 has 8 MA's), (Start: 89 @49456 has 1 MA's), (94, 49414), (96, 49393), (128, 49249), (144, 49153),

Gene: Scout_85 Start: 47152, Stop: 46733, Start Num: 62

Candidate Starts for Scout_85:

(Start: 62 @47152 has 8 MA's), (Start: 76 @47122 has 59 MA's), (Start: 89 @47071 has 1 MA's), (104, 46957), (109, 46921), (138, 46786),

Gene: SemperFi_88 Start: 49721, Stop: 49368, Start Num: 82

Candidate Starts for SemperFi_88:

(Start: 82 @49721 has 302 MA's), (Start: 89 @49685 has 1 MA's), (97, 49619), (104, 49571), (113, 49520), (117, 49505), (144, 49382),

Gene: Serenity_92 Start: 49110, Stop: 48730, Start Num: 76

Candidate Starts for Serenity_92:

(Start: 76 @49110 has 59 MA's), (93, 49023), (96, 48978), (102, 48954), (107, 48906), (124, 48852), (144, 48744),

Gene: Settecandela_6 Start: 6232, Stop: 6651, Start Num: 71

Candidate Starts for Settecandela_6:

(1, 5695), (2, 5776), (12, 5992), (51, 6175), (Start: 71 @6232 has 3 MA's), (87, 6283), (90, 6316), (94, 6349), (95, 6352), (108, 6445), (109, 6457), (111, 6466), (120, 6502), (131, 6562), (142, 6613), (143, 6622),

Gene: Severus_80 Start: 47233, Stop: 46826, Start Num: 65

Candidate Starts for Severus_80:

(Start: 65 @47233 has 16 MA's), (Start: 76 @47209 has 59 MA's), (94, 47116), (96, 47095), (100, 47086), (103, 47068), (109, 47008), (115, 46993), (128, 46945), (134, 46894), (138, 46879),

Gene: Shaka_81 Start: 48414, Stop: 48061, Start Num: 82

Candidate Starts for Shaka_81:

(Start: 82 @48414 has 302 MA's), (Start: 89 @48378 has 1 MA's), (96, 48315), (122, 48186), (142, 48090), (144, 48075),

Gene: Sham4_88 Start: 47691, Stop: 47338, Start Num: 82

Candidate Starts for Sham4_88:

(Start: 80 @47694 has 14 MA's), (Start: 82 @47691 has 302 MA's), (90, 47646), (94, 47613), (97, 47592), (101, 47577), (104, 47541), (118, 47472), (128, 47448), (144, 47352),

Gene: SheaKeira_86 Start: 48740, Stop: 48387, Start Num: 82

Candidate Starts for SheaKeira_86:

(24, 48923), (31, 48899), (36, 48872), (Start: 82 @48740 has 302 MA's), (Start: 84 @48734 has 8 MA's), (Start: 89 @48704 has 1 MA's), (96, 48641), (113, 48539), (117, 48524), (128, 48497), (144, 48401),

Gene: Sheen_81 Start: 50508, Stop: 50107, Start Num: 64

Candidate Starts for Sheen_81:

(Start: 64 @50508 has 6 MA's), (Start: 76 @50484 has 59 MA's), (85, 50457), (90, 50424), (97, 50367), (103, 50343), (109, 50283), (112, 50271), (132, 50190), (135, 50169), (148, 50115),

Gene: SheldonCooper_83 Start: 48854, Stop: 48501, Start Num: 82

Candidate Starts for SheldonCooper_83:

(Start: 82 @48854 has 302 MA's), (Start: 89 @48818 has 1 MA's), (96, 48755), (117, 48638), (122, 48626), (142, 48530), (144, 48515),

Gene: Shygu2_81 Start: 48360, Stop: 48007, Start Num: 82

Candidate Starts for Shygu2_81:

(Start: 82 @48360 has 302 MA's), (Start: 89 @48324 has 1 MA's), (122, 48132), (142, 48036), (144, 48021),

Gene: Skinny_153 Start: 76957, Stop: 76550, Start Num: 59

Candidate Starts for Skinny_153:

(Start: 59 @76957 has 18 MA's), (94, 76831), (97, 76807), (102, 76786), (103, 76783), (113, 76708), (121, 76687), (135, 76603), (141, 76585),

Gene: Skipitt_82 Start: 48410, Stop: 48057, Start Num: 82

Candidate Starts for Skipitt_82:

(Start: 82 @48410 has 302 MA's), (Start: 89 @48374 has 1 MA's), (96, 48311), (117, 48194), (122, 48182), (142, 48086), (144, 48071),

Gene: SlimJimmy_147 Start: 76427, Stop: 76020, Start Num: 59

Candidate Starts for SlimJimmy_147:

(46, 76478), (Start: 59 @76427 has 18 MA's), (94, 76301), (97, 76277), (102, 76256), (103, 76253), (113, 76178), (121, 76157), (135, 76073), (141, 76055),

Gene: Smeagan_91 Start: 50128, Stop: 49775, Start Num: 82

Candidate Starts for Smeagan_91:

(Start: 82 @50128 has 302 MA's), (Start: 89 @50092 has 1 MA's), (97, 50026), (104, 49978), (117, 49912), (144, 49789),

Gene: SmellyB_91 Start: 48313, Stop: 47933, Start Num: 76

Candidate Starts for SmellyB_91:

(42, 48415), (Start: 76 @48313 has 59 MA's), (Start: 84 @48292 has 8 MA's), (Start: 89 @48247 has 1 MA's), (90, 48235), (96, 48181), (101, 48166), (102, 48157), (109, 48094), (110, 48091), (133, 48001), (141, 47968),

Gene: SnapTap_88 Start: 49536, Stop: 49183, Start Num: 82

Candidate Starts for SnapTap_88:

(Start: 82 @49536 has 302 MA's), (Start: 89 @49500 has 1 MA's), (97, 49434), (104, 49386), (113, 49335), (117, 49320), (144, 49197),

Gene: Snape_91 Start: 48484, Stop: 48131, Start Num: 82

Candidate Starts for Snape_91:

(Start: 80 @48487 has 14 MA's), (Start: 82 @48484 has 302 MA's), (90, 48439), (94, 48406), (97, 48385), (101, 48370), (104, 48334), (118, 48265), (128, 48241), (144, 48145),

Gene: Snickers_82 Start: 47751, Stop: 47368, Start Num: 82

Candidate Starts for Snickers_82:

(32, 47910), (55, 47820), (56, 47811), (Start: 67 @47781 has 1 MA's), (Start: 79 @47757 has 4 MA's), (Start: 82 @47751 has 302 MA's), (Start: 84 @47745 has 8 MA's), (96, 47634), (97, 47631), (113, 47532), (123, 47502),

Gene: SoYo_83 Start: 47699, Stop: 47316, Start Num: 82

Candidate Starts for SoYo_83:

(Start: 79 @47705 has 4 MA's), (Start: 80 @47702 has 14 MA's), (Start: 82 @47699 has 302 MA's), (88, 47657), (96, 47582), (97, 47579), (113, 47480), (123, 47450),

Gene: SoilDragon_86 Start: 47221, Stop: 46838, Start Num: 82

Candidate Starts for SoilDragon_86:

(32, 47380), (55, 47290), (56, 47281), (Start: 67 @47251 has 1 MA's), (Start: 79 @47227 has 4 MA's), (Start: 82 @47221 has 302 MA's), (Start: 84 @47215 has 8 MA's), (96, 47104), (97, 47101), (113, 47002), (123, 46972),

Gene: SororFago_87 Start: 49002, Stop: 48646, Start Num: 82

Candidate Starts for SororFago_87:

(28, 49059), (32, 49050), (40, 49020), (Start: 82 @49002 has 302 MA's), (Start: 84 @48996 has 8 MA's), (85, 48990), (Start: 89 @48966 has 1 MA's), (98, 48897), (103, 48873), (104, 48849), (122, 48771), (140, 48684), (142, 48675), (144, 48660),

Gene: Soshari_88 Start: 47807, Stop: 47424, Start Num: 82

Candidate Starts for Soshari_88:

(Start: 79 @47813 has 4 MA's), (Start: 80 @47810 has 14 MA's), (Start: 82 @47807 has 302 MA's), (88, 47765), (96, 47690), (97, 47687), (113, 47588), (123, 47558),

Gene: Sparxx_84 Start: 48412, Stop: 48059, Start Num: 82

Candidate Starts for Sparxx_84:

(Start: 82 @48412 has 302 MA's), (Start: 89 @48376 has 1 MA's), (96, 48313), (117, 48196), (122, 48184), (142, 48088), (144, 48073),

Gene: Spike509_86 Start: 47803, Stop: 47420, Start Num: 82

Candidate Starts for Spike509_86:

(32, 47962), (55, 47872), (56, 47863), (Start: 67 @47833 has 1 MA's), (Start: 79 @47809 has 4 MA's), (Start: 82 @47803 has 302 MA's), (Start: 84 @47797 has 8 MA's), (96, 47686), (97, 47683), (113, 47584), (123, 47554),

Gene: Spino_82 Start: 48416, Stop: 48063, Start Num: 82

Candidate Starts for Spino_82:

(Start: 82 @48416 has 302 MA's), (Start: 89 @48380 has 1 MA's), (96, 48317), (117, 48200), (122, 48188), (142, 48092), (144, 48077),

Gene: Spouty_86 Start: 49225, Stop: 48878, Start Num: 84

Candidate Starts for Spouty_86:

(Start: 80 @49231 has 14 MA's), (Start: 84 @49225 has 8 MA's), (Start: 89 @49195 has 1 MA's), (94, 49153), (96, 49132), (128, 48988), (144, 48892),

Gene: Stagni_83 Start: 47811, Stop: 47398, Start Num: 67

Candidate Starts for Stagni_83:

(32, 47940), (55, 47850), (56, 47841), (Start: 67 @47811 has 1 MA's), (Start: 79 @47787 has 4 MA's), (Start: 82 @47781 has 302 MA's), (96, 47664), (97, 47661), (113, 47562), (123, 47532),

Gene: StarStuff_90 Start: 49564, Stop: 49184, Start Num: 76

Candidate Starts for StarStuff_90:

(Start: 76 @49564 has 59 MA's), (93, 49477), (102, 49408), (103, 49405), (104, 49381),

Gene: Stasia_80 Start: 48401, Stop: 48003, Start Num: 65

Candidate Starts for Stasia_80:

(Start: 65 @48401 has 16 MA's), (Start: 79 @48368 has 4 MA's), (96, 48263), (112, 48164), (128, 48122), (132, 48086), (135, 48065),

Gene: Steamy_79 Start: 48134, Stop: 47763, Start Num: 74

Candidate Starts for Steamy_79:

(25, 48284), (34, 48248), (44, 48212), (Start: 74 @48134 has 1 MA's), (Start: 84 @48113 has 8 MA's), (85, 48107), (Start: 89 @48083 has 1 MA's), (94, 48041), (95, 48038), (97, 48017), (98, 48014), (103, 47990), (113, 47915), (142, 47792), (144, 47777),

Gene: StepMih_86 Start: 47778, Stop: 47389, Start Num: 79

Candidate Starts for StepMih_86:

(32, 47931), (55, 47841), (56, 47832), (Start: 67 @47802 has 1 MA's), (Start: 79 @47778 has 4 MA's), (Start: 82 @47772 has 302 MA's), (Start: 84 @47766 has 8 MA's), (96, 47655), (97, 47652), (113, 47553), (123, 47523),

Gene: Stink_83 Start: 48640, Stop: 48287, Start Num: 82

Candidate Starts for Stink_83:

(Start: 82 @48640 has 302 MA's), (Start: 89 @48604 has 1 MA's), (96, 48541), (104, 48490), (112, 48442), (113, 48439), (117, 48424), (122, 48412), (142, 48316), (144, 48301),

Gene: SuperAwesome_91 Start: 49001, Stop: 48621, Start Num: 76

Candidate Starts for SuperAwesome_91:

(42, 49103), (Start: 76 @49001 has 59 MA's), (Start: 84 @48980 has 8 MA's), (Start: 89 @48935 has 1 MA's), (90, 48923), (96, 48869), (101, 48854), (102, 48845), (109, 48782), (110, 48779), (133, 48689), (141, 48656),

Gene: SuperCallie99_87 Start: 48376, Stop: 47996, Start Num: 76

Candidate Starts for SuperCallie99_87:

(42, 48478), (Start: 76 @48376 has 59 MA's), (Start: 84 @48355 has 8 MA's), (Start: 89 @48310 has 1 MA's), (90, 48298), (96, 48244), (101, 48229), (102, 48220), (109, 48157), (110, 48154), (133, 48064), (141, 48031),

Gene: Superchunk_89 Start: 48723, Stop: 48343, Start Num: 76

Candidate Starts for Superchunk_89:

(Start: 76 @48723 has 59 MA's), (Start: 84 @48702 has 8 MA's), (93, 48636), (96, 48591), (99, 48585), (102, 48567), (107, 48519), (124, 48465),

Gene: SweetiePie_88 Start: 49669, Stop: 49316, Start Num: 82

Candidate Starts for SweetiePie_88:

(Start: 82 @49669 has 302 MA's), (Start: 89 @49633 has 1 MA's), (97, 49567), (104, 49519), (113, 49468), (117, 49453), (144, 49330),

Gene: SwirlSquare_92 Start: 48453, Stop: 48073, Start Num: 72

Candidate Starts for SwirlSquare_92:

(Start: 72 @48453 has 1 MA's), (Start: 84 @48432 has 8 MA's), (90, 48375), (93, 48366), (96, 48321), (102, 48297), (107, 48249),

Gene: TNguyen7_87 Start: 47929, Stop: 47510, Start Num: 62

Candidate Starts for TNguyen7_87:

(Start: 62 @47929 has 8 MA's), (Start: 76 @47899 has 59 MA's), (Start: 89 @47848 has 1 MA's), (104, 47734), (109, 47698), (138, 47563),

Gene: Taquarus_82 Start: 48425, Stop: 48072, Start Num: 82

Candidate Starts for Taquarus_82:

(Start: 82 @48425 has 302 MA's), (Start: 89 @48389 has 1 MA's), (122, 48197), (128, 48182), (142, 48101), (144, 48086),

Gene: TarsusIV_87 Start: 49681, Stop: 49328, Start Num: 82

Candidate Starts for TarsusIV_87:

(Start: 82 @49681 has 302 MA's), (Start: 89 @49645 has 1 MA's), (97, 49579), (101, 49567), (104, 49531), (117, 49465), (128, 49438), (144, 49342),

Gene: Taurus_87 Start: 47781, Stop: 47398, Start Num: 82

Candidate Starts for Taurus_87:

(Start: 79 @47787 has 4 MA's), (Start: 82 @47781 has 302 MA's), (88, 47739), (96, 47664), (97, 47661), (113, 47562), (123, 47532),

Gene: Texage_83 Start: 47628, Stop: 47212, Start Num: 63

Candidate Starts for Texage_83:

(34, 47727), (Start: 58 @47637 has 7 MA's), (Start: 63 @47628 has 6 MA's), (Start: 76 @47601 has 59 MA's), (94, 47508), (134, 47280), (138, 47265),

Gene: Thanksgivukkah_82 Start: 48414, Stop: 48061, Start Num: 82

Candidate Starts for Thanksgivukkah_82:

(Start: 82 @48414 has 302 MA's), (Start: 89 @48378 has 1 MA's), (117, 48198), (122, 48186), (128, 48171), (142, 48090), (144, 48075),

Gene: Tiffany_85 Start: 47671, Stop: 47288, Start Num: 82

Candidate Starts for Tiffany_85:

(Start: 79 @47677 has 4 MA's), (Start: 80 @47674 has 14 MA's), (Start: 82 @47671 has 302 MA's), (88, 47629), (96, 47554), (97, 47551), (113, 47452), (123, 47422),

Gene: Timothy_91 Start: 48461, Stop: 48108, Start Num: 82

Candidate Starts for Timothy_91:

(Start: 80 @48464 has 14 MA's), (Start: 82 @48461 has 302 MA's), (90, 48416), (94, 48383), (97, 48362), (101, 48347), (104, 48311), (118, 48242), (128, 48218), (144, 48122),

Gene: Timshel_80 Start: 50322, Stop: 49888, Start Num: 64

Candidate Starts for Timshel_80:

(Start: 64 @50322 has 6 MA's), (Start: 76 @50295 has 59 MA's), (Start: 84 @50274 has 8 MA's), (93, 50226), (94, 50202), (96, 50181), (103, 50154), (104, 50130), (112, 50082), (114, 50079), (127, 50028), (129, 50007),

Gene: TinaFeyge_81 Start: 48411, Stop: 48058, Start Num: 82

Candidate Starts for TinaFeyge_81:

(Start: 82 @48411 has 302 MA's), (Start: 89 @48375 has 1 MA's), (122, 48183), (128, 48168), (142, 48087), (144, 48072),

Gene: TinyTimmy_89 Start: 48190, Stop: 47837, Start Num: 82

Candidate Starts for TinyTimmy_89:

(Start: 80 @48193 has 14 MA's), (Start: 82 @48190 has 302 MA's), (90, 48145), (94, 48112), (97, 48091), (101, 48076), (104, 48040), (118, 47971), (128, 47947), (144, 47851),

Gene: Tinybot_82 Start: 48443, Stop: 48090, Start Num: 82

Candidate Starts for Tinybot_82:

(Start: 82 @48443 has 302 MA's), (Start: 89 @48407 has 1 MA's), (112, 48245), (128, 48200), (137, 48140), (142, 48119), (144, 48104),

Gene: TopsytheTRex_88 Start: 49112, Stop: 48732, Start Num: 76

Candidate Starts for TopsytheTRex_88:

(7, 49388), (11, 49352), (Start: 76 @49112 has 59 MA's), (Start: 84 @49091 has 8 MA's), (93, 49025), (94, 49001), (96, 48980), (102, 48956), (103, 48953), (109, 48893), (128, 48842), (144, 48746),

Gene: TiroTheta9_82 Start: 48410, Stop: 48057, Start Num: 82

Candidate Starts for TiroTheta9_82:

(Start: 82 @48410 has 302 MA's), (Start: 89 @48374 has 1 MA's), (122, 48182), (128, 48167), (142, 48086), (144, 48071),

Gene: Toaka_89 Start: 49331, Stop: 48978, Start Num: 82

Candidate Starts for Toaka_89:

(Start: 82 @49331 has 302 MA's), (Start: 89 @49295 has 1 MA's), (94, 49253), (101, 49217), (103, 49205), (104, 49181), (117, 49115), (144, 48992),

Gene: Todacoro_85 Start: 47627, Stop: 47211, Start Num: 63

Candidate Starts for Todacoro_85:

(34, 47726), (Start: 58 @47636 has 7 MA's), (Start: 63 @47627 has 6 MA's), (Start: 76 @47600 has 59 MA's), (94, 47507), (134, 47279), (138, 47264),

Gene: Tomathan_90 Start: 49643, Stop: 49263, Start Num: 76

Candidate Starts for Tomathan_90:

(Start: 76 @49643 has 59 MA's), (93, 49556), (102, 49487), (103, 49484), (104, 49460),

Gene: ToneTone_90 Start: 48335, Stop: 47955, Start Num: 76

Candidate Starts for ToneTone_90:

(42, 48437), (Start: 76 @48335 has 59 MA's), (Start: 84 @48314 has 8 MA's), (Start: 89 @48269 has 1 MA's), (90, 48257), (96, 48203), (101, 48188), (102, 48179), (103, 48176), (109, 48116), (110, 48113), (133, 48023), (141, 47990),

Gene: Topanga_72 Start: 44959, Stop: 44552, Start Num: 65

Candidate Starts for Topanga_72:

(10, 45175), (23, 45100), (Start: 65 @44959 has 16 MA's), (Start: 76 @44935 has 59 MA's), (94, 44842), (96, 44821), (100, 44812), (103, 44794), (115, 44719), (128, 44671), (134, 44620), (138, 44605),

Gene: Trixie_88 Start: 50150, Stop: 49794, Start Num: 82

Candidate Starts for Trixie_88:

(Start: 82 @50150 has 302 MA's), (94, 50072), (98, 50045), (101, 50033), (104, 49997), (110, 49958), (117, 49931), (140, 49832), (144, 49808),

Gene: Trooper_88 Start: 49279, Stop: 48899, Start Num: 76

Candidate Starts for Trooper_88:

(Start: 76 @49279 has 59 MA's), (Start: 84 @49258 has 8 MA's), (90, 49201), (93, 49192), (96, 49147), (102, 49123), (103, 49120), (104, 49096), (109, 49060),

Gene: TroyPia_84 Start: 48451, Stop: 48098, Start Num: 82

Candidate Starts for TroyPia_84:

(Start: 82 @48451 has 302 MA's), (Start: 89 @48415 has 1 MA's), (96, 48352), (117, 48235), (122, 48223), (142, 48127), (144, 48112),

Gene: Tubs_91 Start: 49448, Stop: 49095, Start Num: 80

Candidate Starts for Tubs_91:

(Start: 80 @49448 has 14 MA's), (Start: 84 @49442 has 8 MA's), (Start: 89 @49412 has 1 MA's), (94, 49370), (96, 49349), (128, 49205), (144, 49109),

Gene: Tucker_93 Start: 48538, Stop: 48158, Start Num: 76

Candidate Starts for Tucker_93:

(42, 48640), (Start: 76 @48538 has 59 MA's), (Start: 84 @48517 has 8 MA's), (Start: 89 @48472 has 1 MA's), (90, 48460), (96, 48406), (101, 48391), (102, 48382), (103, 48379), (109, 48319), (110, 48316), (133, 48226), (141, 48193),

Gene: Turbido_89 Start: 49849, Stop: 49496, Start Num: 82

Candidate Starts for Turbido_89:

(45, 49951), (47, 49945), (Start: 82 @49849 has 302 MA's), (Start: 89 @49813 has 1 MA's), (97, 49747), (104, 49699), (117, 49633), (144, 49510),

Gene: Twister_83 Start: 48167, Stop: 47760, Start Num: 65

Candidate Starts for Twister_83:

(10, 48389), (23, 48314), (Start: 65 @48167 has 16 MA's), (Start: 76 @48143 has 59 MA's), (94, 48050), (96, 48029), (100, 48020), (103, 48002), (109, 47942), (110, 47939), (112, 47930), (115, 47927), (128, 47879), (138, 47813),

Gene: TyDawg_143 Start: 75872, Stop: 75465, Start Num: 59

Candidate Starts for TyDawg_143:

(46, 75923), (Start: 59 @75872 has 18 MA's), (94, 75746), (97, 75722), (102, 75701), (103, 75698), (113, 75623), (121, 75602), (135, 75518), (141, 75500),

Gene: TygerBlood_83 Start: 48416, Stop: 48063, Start Num: 82

Candidate Starts for TygerBlood_83:

(Start: 82 @48416 has 302 MA's), (Start: 89 @48380 has 1 MA's), (96, 48317), (122, 48188), (128, 48173), (142, 48092), (144, 48077),

Gene: Ugenie5_78 Start: 46930, Stop: 46583, Start Num: 84

Candidate Starts for Ugenie5_78:

(Start: 80 @46936 has 14 MA's), (Start: 84 @46930 has 8 MA's), (Start: 89 @46900 has 1 MA's), (94, 46858), (96, 46837), (128, 46693), (144, 46597),

Gene: Ulysses_82 Start: 48099, Stop: 47746, Start Num: 82

Candidate Starts for Ulysses_82:

(Start: 82 @48099 has 302 MA's), (Start: 89 @48063 has 1 MA's), (96, 48000), (122, 47871), (128, 47856), (142, 47775), (144, 47760),

Gene: Updawg_89 Start: 49264, Stop: 48911, Start Num: 82

Candidate Starts for Updawg_89:

(16, 49366), (19, 49360), (Start: 82 @49264 has 302 MA's), (Start: 89 @49228 has 1 MA's), (97, 49162), (103, 49138), (104, 49114), (117, 49048), (128, 49021), (144, 48925),

Gene: VA6_88 Start: 49607, Stop: 49260, Start Num: 82

Candidate Starts for VA6_88:

(15, 49721), (Start: 82 @49607 has 302 MA's), (Start: 89 @49571 has 1 MA's), (97, 49505), (101, 49493), (104, 49457), (117, 49391), (144, 49274),

Gene: Vanisoa_86 Start: 49634, Stop: 49317, Start Num: 89

Candidate Starts for Vanisoa_86:

(Start: 82 @49670 has 302 MA's), (Start: 89 @49634 has 1 MA's), (94, 49592), (103, 49544), (144, 49331),

Gene: Veracruz_82 Start: 47628, Stop: 47212, Start Num: 63

Candidate Starts for Veracruz_82:

(34, 47727), (Start: 58 @47637 has 7 MA's), (Start: 63 @47628 has 6 MA's), (Start: 76 @47601 has 59 MA's), (94, 47508), (134, 47280), (138, 47265),

Gene: Vix_82 Start: 47872, Stop: 47483, Start Num: 79

Candidate Starts for Vix_82:

(Start: 79 @47872 has 4 MA's), (Start: 80 @47869 has 14 MA's), (Start: 82 @47866 has 302 MA's), (88, 47824), (96, 47749), (97, 47746), (113, 47647), (123, 47617),

Gene: VohminGhazi_91 Start: 48314, Stop: 47934, Start Num: 76

Candidate Starts for VohminGhazi_91:

(42, 48416), (Start: 76 @48314 has 59 MA's), (Start: 84 @48293 has 8 MA's), (Start: 89 @48248 has 1 MA's), (90, 48236), (96, 48182), (101, 48167), (102, 48158), (109, 48095), (110, 48092), (133, 48002), (141, 47969),

Gene: WalterMcMickey_82 Start: 48167, Stop: 47760, Start Num: 65

Candidate Starts for WalterMcMickey_82:

(10, 48389), (23, 48314), (Start: 65 @48167 has 16 MA's), (Start: 76 @48143 has 59 MA's), (94, 48050), (96, 48029), (100, 48020), (103, 48002), (109, 47942), (110, 47939), (112, 47930), (115, 47927), (128, 47879), (138, 47813),

Gene: Wander_83 Start: 48410, Stop: 48057, Start Num: 82

Candidate Starts for Wander_83:

(Start: 82 @48410 has 302 MA's), (Start: 89 @48374 has 1 MA's), (96, 48311), (122, 48182), (128, 48167), (142, 48086), (144, 48071),

Gene: Watson_85 Start: 47770, Stop: 47387, Start Num: 82

Candidate Starts for Watson_85:

(32, 47929), (55, 47839), (56, 47830), (Start: 67 @47800 has 1 MA's), (Start: 79 @47776 has 4 MA's), (Start: 82 @47770 has 302 MA's), (Start: 84 @47764 has 8 MA's), (96, 47653), (97, 47650), (113, 47551), (123, 47521),

Gene: WeiHuaDA_90 Start: 50289, Stop: 49933, Start Num: 82

Candidate Starts for WeiHuaDA_90:

(Start: 82 @50289 has 302 MA's), (Start: 89 @50253 has 1 MA's), (94, 50211), (98, 50184), (104, 50136), (110, 50097), (117, 50070), (142, 49962), (144, 49947),

Gene: Whabigail7_87 Start: 49847, Stop: 49494, Start Num: 82

Candidate Starts for Whabigail7_87:

(45, 49949), (47, 49943), (Start: 82 @49847 has 302 MA's), (Start: 89 @49811 has 1 MA's), (97, 49745), (104, 49697), (117, 49631), (144, 49508),

Gene: WideWale_89 Start: 49264, Stop: 48911, Start Num: 82

Candidate Starts for WideWale_89:

(16, 49366), (19, 49360), (Start: 82 @49264 has 302 MA's), (Start: 89 @49228 has 1 MA's), (97, 49162), (103, 49138), (104, 49114), (117, 49048), (128, 49021), (144, 48925),

Gene: Wiks_92 Start: 48415, Stop: 48035, Start Num: 76

Candidate Starts for Wiks_92:

(42, 48517), (Start: 76 @48415 has 59 MA's), (Start: 84 @48394 has 8 MA's), (Start: 89 @48349 has 1 MA's), (90, 48337), (96, 48283), (101, 48268), (102, 48259), (103, 48256), (109, 48196), (110, 48193), (133, 48103), (141, 48070),

Gene: Wilbur_83 Start: 48413, Stop: 48060, Start Num: 82

Candidate Starts for Wilbur_83:

(Start: 82 @48413 has 302 MA's), (Start: 89 @48377 has 1 MA's), (96, 48314), (117, 48197), (122, 48185), (142, 48089), (144, 48074),

Gene: Wile_78 Start: 48064, Stop: 47711, Start Num: 82

Candidate Starts for Wile_78:

(Start: 82 @48064 has 302 MA's), (Start: 89 @48028 has 1 MA's), (96, 47965), (101, 47950), (103, 47938), (104, 47914), (112, 47866), (122, 47836), (142, 47740), (144, 47725),

Gene: Wizard007_79 Start: 47790, Stop: 47437, Start Num: 82

Candidate Starts for Wizard007_79:

(Start: 82 @47790 has 302 MA's), (Start: 89 @47754 has 1 MA's), (96, 47691), (101, 47676), (103, 47664), (104, 47640), (112, 47592), (122, 47562), (142, 47466), (144, 47451),

Gene: Wooldri_88 Start: 47692, Stop: 47309, Start Num: 82

Candidate Starts for Wooldri_88:

(Start: 79 @47698 has 4 MA's), (Start: 80 @47695 has 14 MA's), (Start: 82 @47692 has 302 MA's), (88, 47650), (96, 47575), (97, 47572), (113, 47473), (123, 47443),

Gene: Xena_79 Start: 48235, Stop: 47882, Start Num: 82

Candidate Starts for Xena_79:

(Start: 82 @48235 has 302 MA's), (Start: 84 @48229 has 8 MA's), (Start: 89 @48199 has 1 MA's), (112, 48037), (117, 48019), (122, 48007), (142, 47911), (144, 47896),

Gene: XianYue_88 Start: 50053, Stop: 49673, Start Num: 76

Candidate Starts for XianYue_88:

(66, 50071), (Start: 76 @50053 has 59 MA's), (Start: 84 @50032 has 8 MA's), (90, 49975), (93, 49966), (96, 49921), (102, 49897), (104, 49870), (109, 49834), (131, 49750),

Gene: Yecey3_92 Start: 49214, Stop: 48861, Start Num: 82

Candidate Starts for Yecey3_92:

(50, 49295), (Start: 65 @49250 has 16 MA's), (Start: 82 @49214 has 302 MA's), (Start: 84 @49208 has 8 MA's), (85, 49202), (Start: 89 @49178 has 1 MA's), (104, 49064), (112, 49016), (113, 49013), (128, 48971), (144, 48875),

Gene: YoSam321_83 Start: 48411, Stop: 48058, Start Num: 82

Candidate Starts for YoSam321_83:

(Start: 82 @48411 has 302 MA's), (Start: 89 @48375 has 1 MA's), (122, 48183), (128, 48168), (142, 48087), (144, 48072),

Gene: Yokurt_92 Start: 48415, Stop: 48035, Start Num: 76

Candidate Starts for Yokurt_92:

(42, 48517), (Start: 76 @48415 has 59 MA's), (Start: 84 @48394 has 8 MA's), (Start: 89 @48349 has 1 MA's), (90, 48337), (96, 48283), (101, 48268), (102, 48259), (103, 48256), (109, 48196), (110, 48193), (133, 48103), (141, 48070),

Gene: Zaka_93 Start: 48415, Stop: 48035, Start Num: 76

Candidate Starts for Zaka_93:

(42, 48517), (Start: 76 @48415 has 59 MA's), (Start: 84 @48394 has 8 MA's), (Start: 89 @48349 has 1 MA's), (90, 48337), (96, 48283), (101, 48268), (102, 48259), (103, 48256), (109, 48196), (110, 48193), (133, 48103), (141, 48070),

Gene: Zetzy_78 Start: 45245, Stop: 44823, Start Num: 60

Candidate Starts for Zetzy_78:

(Start: 60 @45245 has 5 MA's), (86, 45182), (94, 45128), (138, 44885), (148, 44840),

Gene: Zimmer_82 Start: 48548, Stop: 48165, Start Num: 76

Candidate Starts for Zimmer_82:

(30, 48698), (38, 48662), (48, 48626), (Start: 76 @48548 has 59 MA's), (Start: 84 @48527 has 8 MA's), (94, 48437), (102, 48392), (103, 48389), (104, 48365), (109, 48329), (110, 48326), (116, 48308),

Gene: Zulu_94 Start: 48792, Stop: 48412, Start Num: 76

Candidate Starts for Zulu_94:

(42, 48894), (Start: 76 @48792 has 59 MA's), (Start: 84 @48771 has 8 MA's), (Start: 89 @48726 has 1 MA's), (90, 48714), (96, 48660), (101, 48645), (102, 48636), (103, 48633), (109, 48573), (110, 48570), (133, 48480), (141, 48447),