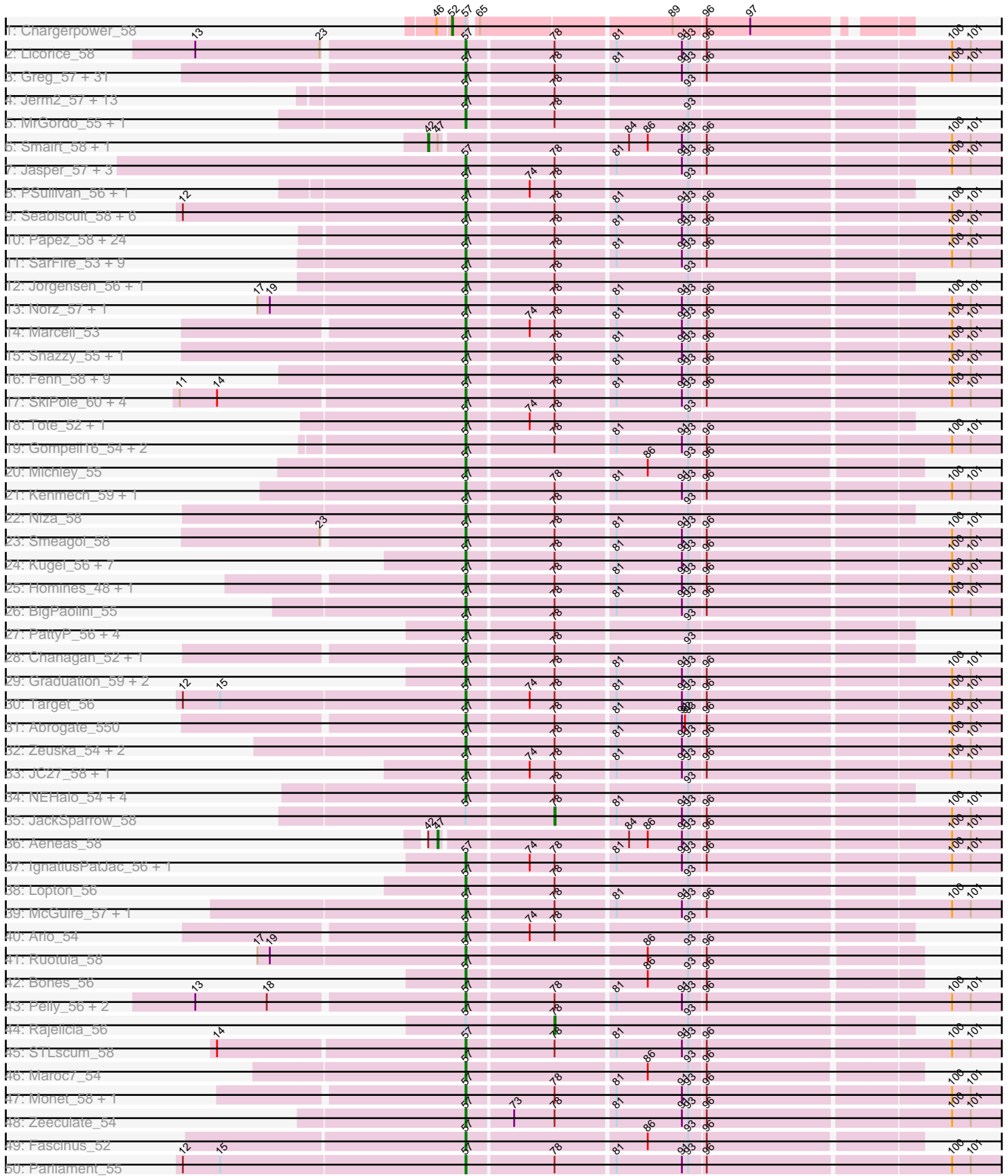


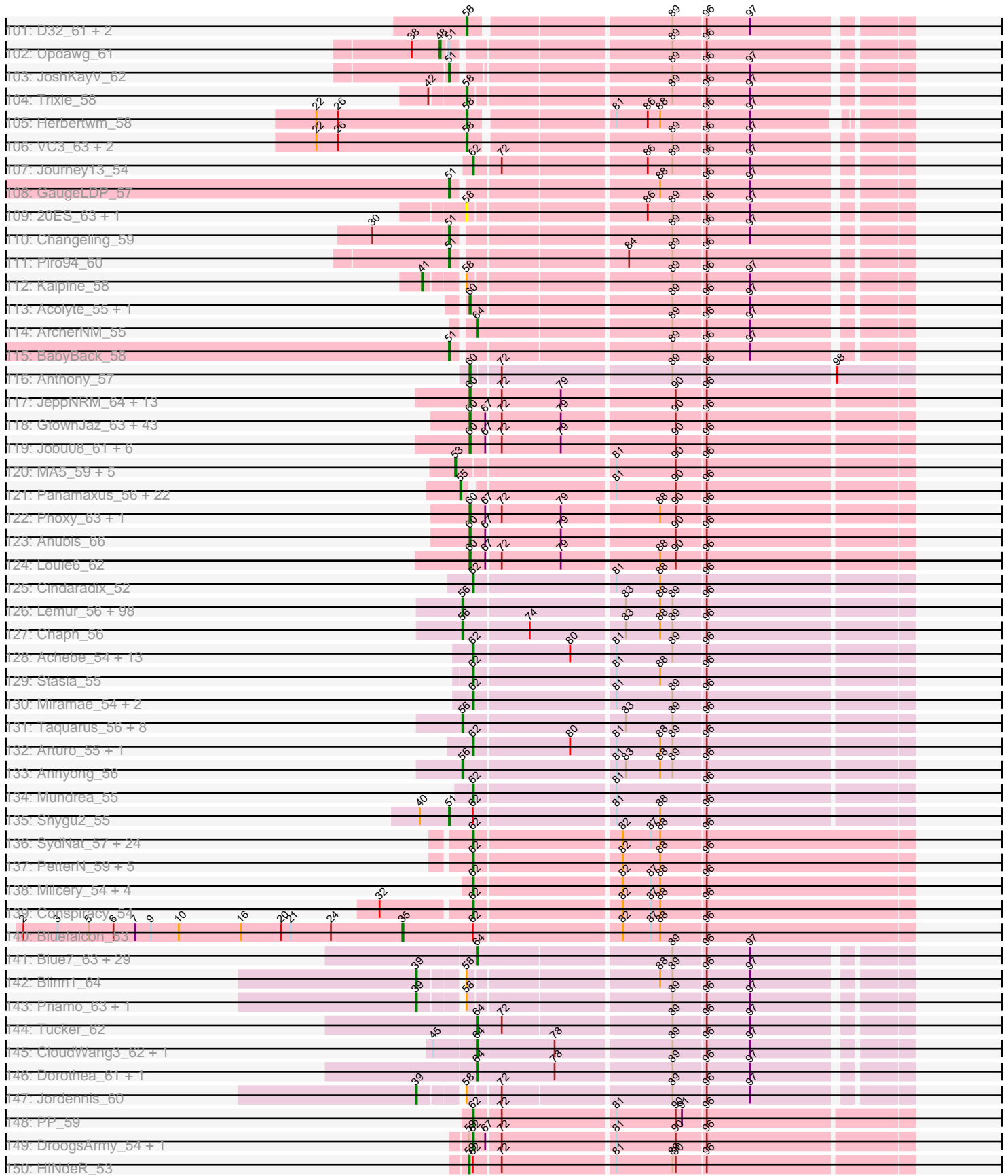
Pham 196164



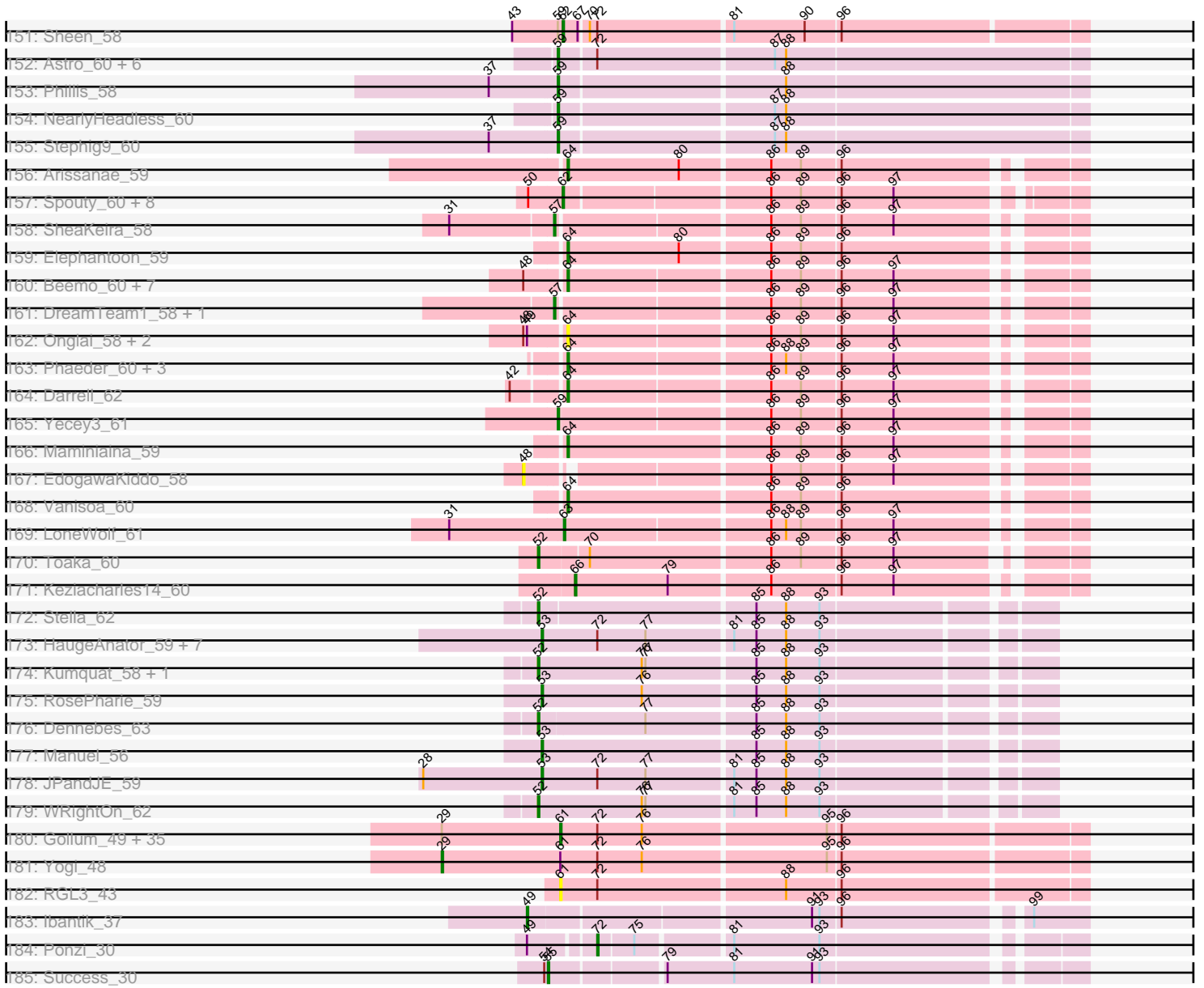
Pham 196164



Pham 196164



Pham 196164



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 196164 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196164 has 765 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_58
- Track 2 : Licorice_58
- Track 3 : Greg_57, Buttons_54, Solon_54, Dexes_56, Oogway_55, Nerujay_58, Altman_59, Trouble_58, Bruns_55, Wilkins_55, Topgun_55, Kanely_58, Ciao_55, Blue_55, PascalRango_56, Lesedi_52, Marsha_55, Violet_54, Pippin_57, Edtherson_55, Adahisdi_56, Hermia_56, GrecoEtereo_56, Perseus_56, Rhynn_54, Petruccio_55, Rutherford_57, Bxb1_51, Nhonho_55, Eyeball_57, Fajezeel_57, Acme_57
- Track 4 : Jerm2_57, ConceptII_58, Burton_56, Euphoria_53, Rohr_57, HermioneGrange_56, Gandalf20_58, Watermelon_56, Museum_57, Atkinbua_59, Slagathor_58, BigMau_57, Manatee_57, Espresso_55
- Track 5 : MrGordo_55, Bethlehem_56
- Track 6 : Smairt_58, Mule_53
- Track 7 : Jasper_57, PherrisBueller_55, Dreamboat_57, Doom_54
- Track 8 : PSullivan_56, Pita2_59
- Track 9 : Seabiscuit_58, Marchy_50, Tasp14_57, Lamina13_56, Paphu_54, Hami1_49, Payneful_55
- Track 10 : Papez_58, MaryBeth_55, PinkPlastic_56, Magnito_54, Barriga_56, Makemake_56, Dynamix_57, MetalQZJ_54, Corvo_56, Zephyr_56, TheloniousMonk_56, Hope4ever_57, MPlant7149_54, Alsfro_60, DreamCatcher_59, Sumter_52, BPBiebs31_57, Bob3_54, Applejack_50, DD5_55, Rubeus_56, Lockley_54, Sunshine924_57, Molly_57, Paraselene_53
- Track 11 : SarFire_53, Sorpresa_54, Gyzlar_52, ILeeKay_59, DrFeelGood_53, Kykar_55, Crispicous1_53, Scowl_56, Pinto_56, Thor_53
- Track 12 : Jorgensen_56, Ohno789_57
- Track 13 : Norz_57, Carlyle_54
- Track 14 : Marcell_53
- Track 15 : Snazzy_55, Wheeler_56
- Track 16 : Fenn_58, Francis47_54, PacerPaul_55, Ichabod_59, CactusRose_53, Naira_58, RidgeCB_55, Pari_58, Squee_56, U2_55
- Track 17 : SkiPole_60, Beatrix_55, StrongArm_54, Pepe_52, Bexan_53
- Track 18 : Tote_52, JuliaChild_57
- Track 19 : Gompeii16_54, Bircsak_54, Alvin_55
- Track 20 : Michley_55
- Track 21 : Kenmech_59, Tripl3t_56
- Track 22 : Niza_58
- Track 23 : Smeagol_58

- Track 24 : Kugel_56, KyMonks1A_58, Moose_55, LilBib_56, HarryOW_55, Sagefire_58, Forsytheast_55, SwissCheese_57
- Track 25 : Homines_48, Rufus_57
- Track 26 : BigPaolini_55
- Track 27 : PattyP_56, Killigrew_56, KBG_56, Anglerfish_57, TwoPeat_57
- Track 28 : Chanagan_52, Ringer_56
- Track 29 : Graduation_59, Briton15_59, Cueyllyss_57
- Track 30 : Target_56
- Track 31 : Abrogate_550
- Track 32 : Zeuska_54, Ajay_57, BeesKnees_58
- Track 33 : JC27_58, Ashballer_58
- Track 34 : NEHalo_54, GageAP_56, AFIS_53, SpikeBT_55, KSSJEB_55
- Track 35 : JackSparrow_58
- Track 36 : Aeneas_58
- Track 37 : IgnatiusPatJac_56, BluSpix_54
- Track 38 : Lopton_56
- Track 39 : McGuire_57, Traft412_58
- Track 40 : Arlo_54
- Track 41 : Ruotula_58
- Track 42 : Bones_56
- Track 43 : Pelly_56, Dulcie_56, Gwendoluna_59
- Track 44 : Rajelicia_56
- Track 45 : STLscum_58
- Track 46 : Maroc7_54
- Track 47 : Monet_58, Treddle_56
- Track 48 : Zeeculate_54
- Track 49 : Fascinus_52
- Track 50 : Parliament_55
- Track 51 : Seanderson_57
- Track 52 : QTRlifeCrisis_55
- Track 53 : Goose_57, OKCentral2016_56, Chupacabra_55, Twister_55, WalterMcMickey_55, RhynO_57, Topanga_54, Kristoff_56, Rebeuca_57
- Track 54 : PeaceMeal1_55, Severus_55, Drake94_55, KittenMittens_54
- Track 55 : Eaglepride_58
- Track 56 : Poompha_55
- Track 57 : Gilberta_61, Insomnia_61, Sham4_60, Bowtie_61, Snape_60, Timothy_60
- Track 58 : Lucivia_61
- Track 59 : Aneem_61, Flaverint_61, Joselito_61, TinyTimmy_60, Bachome_62, Jabith_61, Ebony_60, Fibonacci_60
- Track 60 : Refuge_58
- Track 61 : Pharaoh_55
- Track 62 : Zimmer_57
- Track 63 : Phlei_50
- Track 64 : Jeeves_64
- Track 65 : SororFago_61
- Track 66 : Sunhee_62
- Track 67 : Luchador_63
- Track 68 : Epsocamisio_64, Looper_66, Anaysia_67, Nebulosus_65, Boohoo_67, Rosalind_65, DekHockey33_68, Waits_67, MinecraftSteve_67, KatherineG_67, JSwag_66, ShayRa_67, Battleship_69, Soups_67, Switzerland_66, LastResort_65
- Track 69 : Nedarya_63
- Track 70 : Anon_65

- Track 71 : Strosahl_67, Remus_67
- Track 72 : Lucyedi_62, EagleEye_63, PainterBoy_62
- Track 73 : MyraDee_54
- Track 74 : Benvolio_57, Echild_60
- Track 75 : Adzzy_61
- Track 76 : EvilGenius_62, Power_59, SemperFi_61, QueenBeesly_60, Georgie2_61, SnapTap_60, Crucio_60, SweetiePie_60, XianYue_58, FiringLine_60, ChipMunk_62
- Track 77 : Flare16_60, MiculUcigas_60, Baehexic_59, Centaur_61, WideWale_61, NaSiaTalie_60
- Track 78 : Larenn_59, Malec_60
- Track 79 : NicoleTera_58
- Track 80 : Jsquared_59
- Track 81 : BiancaTri92_60, Leogania_60
- Track 82 : IronMan_59, Jaan_60, Bactobuster_58, Landor_60
- Track 83 : Anselm_61, DudeLittle_59, Retro23_61, Dalmatian_61
- Track 84 : Loser_62
- Track 85 : Duplo_62, StarStuff_62, Kerberos_62, DBQu4n_62, Tomathan_62, Pomar16_99
- Track 86 : Iwokeuplikedis_62, AN3_63, LadyBird_65, VA6_61, Deloris_61, BengiVuitton_61
- Track 87 : Trooper_61
- Track 88 : Whabigail7_61
- Track 89 : L5_58, TopsytheTRex_57
- Track 90 : Agape74_62, AbbyPaige_62, Buggy_62, LilTurb_61, Dignity_62, Jerm_62, Leviathan_62, Smeagan_63, Turbido_61
- Track 91 : HarryHoudini_61
- Track 92 : Rachaly_59, Lokk_57, BobSwaget_56
- Track 93 : AnnaL29_62
- Track 94 : QueenB2_59, Heffalump_59, Fameo_60
- Track 95 : Drake55_62
- Track 96 : Pukovnik_58
- Track 97 : RedRock_62
- Track 98 : Phaded_60
- Track 99 : Odin_58, Superchunk_58
- Track 100 : Ph8s_61, Che12_61
- Track 101 : D32_61, Naji_62, D29_58
- Track 102 : Updawg_61
- Track 103 : JoshKayV_62
- Track 104 : Trixie_58
- Track 105 : Herbertwm_58
- Track 106 : VC3_63, AN9_63, ANI8_63
- Track 107 : Journey13_54
- Track 108 : GaugeLDP_57
- Track 109 : 20ES_63, First_0062
- Track 110 : Changeling_59
- Track 111 : Piro94_60
- Track 112 : Kalpine_58
- Track 113 : Acolyte_55, NothingSpecial_58
- Track 114 : ArcherNM_55
- Track 115 : BabyBack_58
- Track 116 : Anthony_57

- Track 117 : JeppNRM_64, Marius_64, Phranny_64, Kalb97_64, OlanP_62, Heliosoles_62, Manu_63, Kalnoky_64, PhishRPhriends_61, HaveUMetTed_64, Groupthink_64, Reba_63, Gemma_62, PurpleHaze_63
- Track 118 : GtownJaz_63, P28Green_64, Penny1_64, HashRod_64, Sabinator_62, Wooldri_65, Bxz2_58, LBerry_64, KADY_63, Mainiac_63, Phoebe_64, Grub_63, Cullens_63, Beauxregard13_63, AgronaGT15_62, LugYA_66, Sabia_63, Lilith_63, Methuselah_58, PGHhamlin_65, BuzzBuzz_60, Dieselweasel_64, EpicPhail_64, Aglet_64, SoYo_63, Daishi_62, GingkoMaracino_63, BreSam8_63, Malinsilva_65, Pembroke_63, Soshari_65, Misomonster_64, MuchMore_66, Farber_63, MarQuardt_63, Hercules11_63, JenCasNa_64, Grif_63, Taurus_64, Fernando_63, Tiffany_62, LarryKay_63, Grum1_63, AugsMagnumOpus_66
- Track 119 : Jobu08_61, SoilDragon_63, Rummer_62, Ollie_63, Zetzy_62, MadMarie_63, Stagni_63
- Track 120 : MA5_59, JF4_57, Phantastic_60, Isca_58, JF2_57, MK4_59
- Track 121 : Panamaxus_56, Lambert1_58, Fred313_58, Caviar_58, Noella_58, Popcicle_58, ResDef_58, BabyRay_59, HelDan_59, Idleandcovert_59, Hookmount_58, Pistachio_60, Puppy_60, Scout_59, Pocahontas_58, Texage_57, TNguyen7_60, Heathen_59, Margo_58, Todacoro_58, QuinnKiro_57, BlueBird_61, Veracruz_57
- Track 122 : Phoxy_63, Spike509_63
- Track 123 : Anubis_66
- Track 124 : Louie6_62
- Track 125 : Cindaradix_52
- Track 126 : Lemur_56, Koreni_55, Ulysses_55, Phighter1804_56, JetBlade_56, TroyPia_57, Caelakin_56, LittleB_56, Iceman_56, DirtyDunning_55, Phacado_56, Wizard007_56, BubbleTrouble_55, Skipitt_55, Eurydice_57, Kremtemulon_56, Peaches_55, MeeZee_56, Florean_56, Roosevelt_55, Avle17_56, Spino_55, Pipcraft_54, Dhanush_56, Medusa_56, Eagle_56, NorthStar_55, BellusTerra_57, Connomayer_56, KFPoly_55, HamSlice_54, Blackmoor_56, LittleGuy_56, Clarenza_55, Eapen_56, Deano_55, Citius_56, Ohfah_57, Palestino_55, Funston_55, OKaNui_56, ICleared_56, Wilbur_56, Phontbonne_56, TygerBlood_56, Polymorphads_57, Millski_55, Gadost_56, Commander_56, Nebs_57, NotAPhaseMom_56, Sabertooth_56, Abdiel_56, Lunsford_57, Bartimeaus_56, Morrow_57, Bruiser_55, Burger_54, Baby16_56, Albee_56, Iracema64_57, Flux_56, Houdini22_56, Cintron_55, Eris_55, Eros_56, Sparxx_57, TiroTheta9_56, Pumbaa_56, Lorenzo_56, YoSam321_56, Kingmustik0402_56, LochMonster_57, Jaykayelowell_54, Relief_55, TinaFeyge_55, Melvin_58, Wander_56, Nemo27_56, PeterPeter_56, Bombshell_56, Felipe_57, Alberto7_57, Maxo_57, Thanksgivukkah_55, Camperdownii_54, Scamp_56, LappelDuVide_56, Nyxis_56, Tinybot_55, JoongJeon_55, Mazhar510_56, Druantia_56, Broseidon_56, Cocoaberry_56, Holli_55, CentreCat_56, Kyee_56, Kampy_55
- Track 127 : Chaph_56
- Track 128 : Achebe_54, Badger_54, Cici_55, Xena_54, Datway_55, PetiteSangsue_55, Wile_55, Katalie136_55, Bumblebee11_54, Morpher26_55, AbbysRanger_55, Noelle_56, Backyardigan_53, Perplexer_55
- Track 129 : Stasia_55
- Track 130 : Miramae_54, AvatarAhPeg_54, Stink_54
- Track 131 : Taquarus_56, LHTSCC_58, BangNhom_56, Obama12_57, Cerulean_57, Happiness_55, Ruin_56, ChampagnePapi_58, SheldonCooper_57
- Track 132 : Arturo_55, Kratak_56
- Track 133 : Annyong_56
- Track 134 : Mundrea_55
- Track 135 : Shygu2_55

- Track 136 : SydNat_57, Jovo_54, UnionJack_88, Cuco_54, Archetta_53, Tiger_53, Benedict_58, ForGetIt_54, Tarynearal_52, Dublin_54, Coog_53, MarysWell_54, Discoknowium_52, Midas2_53, Jabiru_56, Lev2_54, Ghoulboy_57, Swirley_56, Phlorence_52, Theia_53, Aragog_53, Zolita_56, PickleBack_54, AgentM_53, Micasa_55
- Track 137 : PetterN_59, Chadwick_58, Scorpia_59, Airmid_55, Naca_55, EITiger69_57
- Track 138 : Milcery_54, George_52, LittleCherry_54, HuhtaEnerson15_54, Bonamassa_54
- Track 139 : Conspiracy_54
- Track 140 : Bluefalcon_53
- Track 141 : Blue7_63, GreedyLawyer_60, SuperAwesome_61, McFly_61, Gruunaga_62, Hammer_62, Pmask_60, VohminGhazi_61, Rifter_62, Isiphiwo_59, Wiks_61, Cookiedough_61, Newrala_61, SmellyB_61, Gladiator_59, Kazan_62, EricB_60, Neeharika16_60, Hoot_56, ToneTone_59, Lilbunny_61, Jeffabunny_62, Artemis2UCLA_62, WunderPhul_62, Kipper29_61, Zaka_62, Zulu_63, Roksolana_63, Indra_65, Hexamo_62
- Track 142 : Blinn1_64
- Track 143 : Priamo_63, JewelBug_62
- Track 144 : Tucker_62
- Track 145 : CloudWang3_62, Koko_63
- Track 146 : Dorothea_61, BABullseye_54
- Track 147 : Jordennis_60
- Track 148 : PP_59
- Track 149 : DroogsArmy_54, Timshel_55
- Track 150 : HINdeR_53
- Track 151 : Sheen_58
- Track 152 : Astro_60, Danforth_60, Groundhog_59, Dixon_59, Roary_61, Saintus_55, Smeadley_60
- Track 153 : Phillis_58
- Track 154 : NearlyHeadless_60
- Track 155 : Stephig9_60
- Track 156 : Arissanae_59
- Track 157 : Spouty_60, Qobbit_60, ExplosioNervosa_60, Priya_60, Eidsmoe_60, Conquerage_60, Alma_60, Fayely_60, EmyBug_59
- Track 158 : SheaKeira_58
- Track 159 : Elephantoon_59
- Track 160 : Beemo_60, Scherzo_60, Catalina_61, Myxus_60, Aliter_60, Phonnegut_60, Pioneer_60, HortumSL17_60
- Track 161 : DreamTeam1_58, Charm_58
- Track 162 : Onglai_58, Hanray_58, RyeScarlet_61
- Track 163 : Phaeder_60, BogosyJay_59, PackMan_59, Tubs_60
- Track 164 : Darrell_62
- Track 165 : Yecey3_61
- Track 166 : Maminiaina_59
- Track 167 : EdogawaKiddo_58
- Track 168 : Vanisoa_60
- Track 169 : LoneWolf_61
- Track 170 : Toaka_60
- Track 171 : Keziacharles14_60
- Track 172 : Stella_62
- Track 173 : HaugeAnator_59, Treat_59, Olicious_59, Immanuel3_58, Romero_59, ToriToki_59, Percastrophe_59, ZooBear_59

- Track 174 : Kumquat_58, Zeigle_58
- Track 175 : RosePharie_59
- Track 176 : Dennebes_63
- Track 177 : Manuel_56
- Track 178 : JPandJE_59
- Track 179 : WRightOn_62
- Track 180 : Gollum_49, Bradshaw_49, StCroix_48, BobbyDazzler_49, Lillie_49, Hiro_49, Partridge_48, Jester_48, Yoncess_48, AngryOrchard_47, Takoda_49, RexFury_48, RER2_42, Espica_49, Krishelle_49, Dinger_48, UhSalsa_49, CosmicSans_49, Natosaleda_48, Shuman_49, Naiad_48, AppleCloud_46, Bonanza_49, Belenaria_49, Rhodalysa_49, TWAMP_49, Phrankenstein_49, PhailMary_48, Alatin_48, Rasputin_49, Bryce_48, Erik_49, Alpacados_48, Nancinator_49, Swann_49, Harlequin_48
- Track 181 : Yogi_48
- Track 182 : RGL3_43
- Track 183 : Ibantik_37
- Track 184 : Ponzi_30
- Track 185 : Success_30

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

The start number called the most often in the published annotations is 57, it was called in 186 of the 755 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AFIS_53, Abrogate_550, Acme_57, Adahisdi_56, Ajay_57, Alsfro_60, Altman_59, Alvin_55, Anglerfish_57, Applejack_50, Arlo_54, Ashballer_58, Atkinbua_59, BPBiebs31_57, Barriga_56, Beatrix_55, BeesKnees_58, Bethlehem_56, Bexan_53, BigMau_57, BigPaolini_55, Bircsak_54, BluSpix_54, Blue_55, Bob3_54, Bones_56, Briton15_59, Bruns_55, Burton_56, Buttons_54, Bxb1_51, CactusRose_53, Carlyle_54, Chanagan_52, Charm_58, Ciao_55, ConceptII_58, Corvo_56, Crispicous1_53, Cueylyss_57, DD5_55, Dexes_56, Doom_54, DrFeelGood_53, DreamCatcher_59, DreamTeam1_58, Dreamboat_57, Dulcie_56, Dynamix_57, Edtherson_55, Espresso_55, Euphoria_53, Eyeball_57, Fajezeel_57, Fascinus_52, Fenn_58, Forsytheast_55, Francis47_54, GageAP_56, Gandalf20_58, Gompeii16_54, Graduation_59, GrecoEtereo_56, Greg_57, Gwendoluna_59, Gyzlar_52, Hami1_49, HarryOW_55, Hermia_56, HermioneGrange_56, Homines_48, Hope4ever_57, ILeeKay_59, Ichabod_59, IgnatiusPatJac_56, JC27_58, Jasper_57, Jerm2_57, Jorgensen_56, JuliaChild_57, KBG_56, KSSJEB_55, Kanely_58, Kenmech_59, Killigrew_56, Kugel_56, KyMonks1A_58, Kykar_55, Lamina13_56, Lesedi_52, Licorice_58, LilBib_56, Lockley_54, Lopton_56, MPlant7149_54, Magnito_54, Makemake_56, Manatee_57, Marcell_53, Marchy_50, Maroc7_54, Marsha_55, MaryBeth_55, McGuire_57, MetalQZJ_54, Michley_55, Molly_57, Monet_58, Moose_55, MrGordo_55, Museum_57, NEHalo_54, Naira_58, Nerujay_58, Nhonho_55, Niza_58, Norz_57, Ohno789_57, Oogway_55, PSullivan_56, PacerPaul_55, Papez_58, Paphu_54, Paraselene_53, Pari_58, Parliament_55, PascalRango_56, PattyP_56, Payneful_55, Pelly_56, Pepe_52, Perseus_56, Petruccio_55, PherrisBueller_55, PinkPlastic_56, Pinto_56, Pippin_57, Pita2_59, QTRlifeCrisis_55, Rhynn_54, RidgeCB_55, Ringer_56, Rohr_57, Rubeus_56, Rufus_57, Ruotula_58, Rutherford_57, STLscum_58, Sagefire_58,

SarFire_53, Scowl_56, Seabiscuit_58, Seanderson_57, SheaKeira_58, SkiPole_60, Slagathor_58, Smeagol_58, Snazzy_55, Solon_54, SororFago_61, Sorpresa_54, SpikeBT_55, Squee_56, StrongArm_54, Sumter_52, Sunshine924_57, SwissCheese_57, Target_56, Tasp14_57, TheloniousMonk_56, Thor_53, Topgun_55, Tote_52, Traft412_58, Treddle_56, Tripl3t_56, Trouble_58, TwoPeat_57, U2_55, Violet_54, Watermelon_56, Wheeler_56, Wilkins_55, Zeeculate_54, Zephyr_56, Zeuska_54,

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

- Chargerpower_58, JackSparrow_58, Rajelicia_56,

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

- 20ES_63, AN3_63, AN9_63, ANI8_63, AbbyPaige_62, AbbysRanger_55, Abdiel_56, Achebe_54, Acolyte_55, Adzzy_61, Aeneas_58, Agape74_62, AgentM_53, Aglet_64, AgronaGT15_62, Airmid_55, Alatin_48, Albee_56, Alberto7_57, Aliter_60, Alma_60, Alpacados_48, Anaysia_67, Aneem_61, AngryOrchard_47, AnnaL29_62, Annyong_56, Anon_65, Anselm_61, Anthony_57, Anubis_66, AppleCloud_46, Aragog_53, ArcherNM_55, Archetta_53, Arissanae_59, Artemis2UCLA_62, Arturo_55, Astro_60, AugsMagnumOpus_66, AvatarAhPeg_54, Avle17_56, BABullseye_54, Baby16_56, BabyBack_58, BabyRay_59, Bachome_62, Backyardigan_53, Bactobuster_58, Badger_54, Baehexic_59, BangNhom_56, Bartimeaus_56, Battleship_69, Beauxregard13_63, Beemo_60, Belenaria_49, BellusTerra_57, Benedict_58, BengiVuitton_61, Benvolio_57, BiancaTri92_60, Blackmoor_56, Blinn1_64, Blue7_63, BlueBird_61, Bluefalcon_53, BobSwaget_56, BobbyDazzler_49, BogosyJay_59, Bombshell_56, Bonamassa_54, Bonanza_49, Boohoo_67, Bowtie_61, Bradshaw_49, BreSam8_63, Broseidon_56, Bruiser_55, Bryce_48, BubbleTrouble_55, Buggy_62, Bumblebee11_54, Burger_54, BuzzBuzz_60, Bxz2_58, Caelakin_56, Camperdownii_54, Catalina_61, Caviar_58, Centaur_61, CentreCat_56, Cerulean_57, Chadwick_58, ChampagnePapi_58, Changeling_59, Chaph_56, Che12_61, ChipMunk_62, Chupacabra_55, Cici_55, Cindaradix_52, Cintron_55, Citius_56, Clarenza_55, CloudWang3_62, Cocoaberry_56, Commander_56, Connomayer_56, Conquerage_60, Conspiracy_54, Coog_53, Cookiedough_61, CosmicSans_49, Crucio_60, Cuco_54, Cullens_63, D29_58, D32_61, DBQu4n_62, Daishi_62, Dalmatian_61, Danforth_60, Darrell_62, Datway_55, Deano_55, DekHockey33_68, Deloris_61, Dennebes_63, Dhanush_56, Dieselweasel_64, Dignity_62, Dinger_48, DirtyDunning_55, Discoknowium_52, Dixon_59, Dorothea_61, Drake55_62, Drake94_55, DroogsArmy_54, Druantia_56, Dublin_54, DudeLittle_59, Duplo_62, EagleEye_63, Eagle_56, Eaglepride_58, Eapen_56, Ebony_60, Echild_60, EdogawaKiddo_58, Eidsmoe_60, ElTiger69_57, Elephantoon_59, EmyBug_59, EpicPhail_64, Epsocamisio_64, EricB_60, Erik_49, Eris_55, Eros_56, Espica_49, Eurydice_57, EvilGenius_62, ExplosioNervosa_60, Fameo_60, Farber_63, Fayely_60, Fernando_63, Fibonacci_60, FiringLine_60, First_0062, Flare16_60, Flaverint_61, Florean_56, Flux_56, ForGetIt_54, Fred313_58, Funston_55, Gadost_56, GaugeLDP_57, Gemma_62, George_52, Georgie2_61, Ghoulyboy_57, Gilberta_61, GingkoMaracino_63, Gladiator_59, Gollum_49, Goose_57, GreedyLawyer_60, Grif_63, Groundhog_59, Groupthink_64, Grub_63, Grum1_63, Gruunaga_62, GtownJaz_63, HINdeR_53, HamSlice_54, Hammer_62, Hanray_58, Happiness_55, Harlequin_48, HarryHoudini_61, HashRod_64, HaugeAnator_59, HaveUMetTed_64, Heathen_59, Heffalump_59, HelDan_59, Heliosoles_62, Herbertwm_58, Hercules11_63, Hexamo_62, Hiro_49, Holli_55, Hookmount_58, Hoot_56, HortumSL17_60, Houdini22_56, HuhtaEnerson15_54, ICleared_56, Ibantik_37, Iceman_56, Idleandcovert_59, Immanuel3_58, Indra_65, Insomnia_61, Iracema64_57, IronMan_59, Isca_58,

Isiphiwo_59, Iwokeuplikedis_62, JF2_57, JF4_57, JPandJE_59, JSwag_66, Jaan_60, Jabiru_56, Jabith_61, Jaykayelowell_54, Jeeves_64, Jeffabunny_62, JenCasNa_64, JeppNRM_64, Jerm_62, Jester_48, JetBlade_56, JewelBug_62, Jobu08_61, JoongJeon_55, Jordennis_60, Joselito_61, JoshKayV_62, Journey13_54, Jovo_54, Jsquared_59, KADY_63, KFPoly_55, Kalb97_64, Kalnoky_64, Kalpine_58, Kamy_55, Katalie136_55, KatherineG_67, Kazan_62, Kerberos_62, Keziacharles14_60, Kingmustik0402_56, Kipper29_61, KittenMittens_54, Koko_63, Koreni_55, Kratak_56, Kremtemulon_56, Krishelle_49, Kristoff_56, Kumquat_58, Kyee_56, L5_58, LBerry_64, LHTSCC_58, LadyBird_65, Lambert1_58, Landor_60, LappelDuVide_56, Larenn_59, LarryKay_63, LastResort_65, Lemur_56, Leogania_60, Lev2_54, Leviathan_62, LiITurb_61, Lilbunny_61, Lilith_63, Lillie_49, LittleB_56, LittleCherry_54, LittleGuy_56, LochMonster_57, Lokk_57, LoneWolf_61, Looper_66, Lorenzo_56, Loser_62, Louie6_62, Luchador_63, Lucivia_61, Lucyedi_62, LugYA_66, Lunsford_57, MA5_59, MK4_59, MadMarie_63, Mainiac_63, Malec_60, Malinsilva_65, Maminiaina_59, Manu_63, Manuel_56, MarQuardt_63, Margo_58, Marius_64, MarysWell_54, Maxo_57, Mazhar510_56, McFly_61, Medusa_56, MeeZee_56, Melvin_58, Methuselah_58, Micasa_55, MiculUcigas_60, Midas2_53, Milcery_54, Millski_55, MinecraftSteve_67, Miramae_54, Misomonster_64, Morpher26_55, Morrow_57, MuchMore_66, Mule_53, Mundrea_55, MyraDee_54, Myxus_60, NaSiaTalie_60, Naca_55, Naiad_48, Naji_62, Nancinator_49, Natosaleda_48, NearlyHeadless_60, Nebs_57, Nebulosus_65, Nedarya_63, Neeharika16_60, Nemo27_56, Newrala_61, NicoleTera_58, Noella_58, Noelle_56, NorthStar_55, NotAPhaseMom_56, NothingSpecial_58, Nyxis_56, OKCentral2016_56, OKaNui_56, Obama12_57, Odin_58, Ohfah_57, OlanP_62, Olicious_59, Ollie_63, Onglai_58, P28Green_64, PGHhamlin_65, PP_59, PackMan_59, PainterBoy_62, Palestino_55, Panamaxus_56, Partridge_48, PeaceMeal1_55, Peaches_55, Pembroke_63, Penny1_64, Percastrophe_59, Perplexer_55, PeterPeter_56, PetiteSangsue_55, PetterN_59, Ph8s_61, Phacado_56, Phaded_60, Phaeder_60, PhailMary_48, Phantastic_60, Pharaoh_55, Felipe_57, Phighter1804_56, Phillis_58, PhishRPhriends_61, Phlei_50, Phlorence_52, Phoebe_64, Phonnegut_60, Phontbonne_56, Phoxy_63, Phrankenstein_49, Phranny_64, PickleBack_54, Pioneer_60, Pipcraft_54, Piro94_60, Pistachio_60, Pmask_60, Pocahontas_58, Polymorphads_57, Pomar16_99, Ponzi_30, Poompha_55, Popcicle_58, Power_59, Priamo_63, Priya_60, Pukovnik_58, Pumbaa_56, Puppy_60, PurpleHaze_63, Qobbit_60, QueenB2_59, QueenBeesly_60, QuinnKiro_57, RER2_42, RGL3_43, Rachaly_59, Rasputin_49, Reba_63, Rebeuca_57, RedRock_62, Refuge_58, Relief_55, Remus_67, ResDef_58, Retro23_61, RexFury_48, Rhodalysa_49, RhynO_57, Rifter_62, Roary_61, Roksolana_63, Romero_59, Roosevelt_55, Rosalind_65, RosePharie_59, Ruin_56, Rummer_62, RyeScarlet_61, Sabertooth_56, Sabia_63, Sabinator_62, Saintus_55, Scamp_56, Scherzo_60, Scorpia_59, Scout_59, SemperFi_61, Severus_55, Sham4_60, ShayRa_67, Sheen_58, SheldonCooper_57, Shuman_49, Shygu2_55, Skipitt_55, Smairt_58, Smeadley_60, Smeagan_63, SmellyB_61, SnapTap_60, Snape_60, SoYo_63, SoilDragon_63, Soshari_65, Soups_67, Sparxx_57, Spike509_63, Spino_55, Spouty_60, StCroix_48, Stagni_63, StarStuff_62, Stasia_55, Stella_62, Stephig9_60, Stink_54, Strosahl_67, Success_30, Sunhee_62, SuperAwesome_61, Superchunk_58, Swann_49, SweetiePie_60, Swirley_56, Switzerland_66, SydNat_57, TNguyen7_60, TWAMP_49, Takoda_49, Taquarus_56, Tarynearal_52, Taurus_64, Texage_57, Thanksgivukkah_55, Theia_53, Tiffany_62, Tiger_53, Timothy_60, Timshel_55, TinaFeyge_55, TinyTimmy_60, Tinybot_55, TopsytheTRex_57, TiroTheta9_56, Toaka_60, Todacoro_58, Tomathan_62, ToneTone_59, Topanga_54, ToriToki_59, Treat_59, Trixie_58, Trooper_61, TroyPia_57, Tubs_60, Tucker_62, Turbido_61,

Twister_55, TygerBlood_56, UhSalsa_49, Ulysses_55, UnionJack_88, Updawg_61, VA6_61, VC3_63, Vanisoa_60, Veracruz_57, VohminGhazi_61, WRightOn_62, Waits_67, WalterMcMickey_55, Wander_56, Whabigail7_61, WideWale_61, Wiks_61, Wilbur_56, Wile_55, Wizard007_56, Wooldri_65, WunderPhul_62, Xena_54, XianYue_58, Yecey3_61, YoSam321_56, Yogi_48, Yoncess_48, Zaka_62, Zeigle_58, Zetzy_62, Zimmer_57, Zolita_56, ZooBear_59, Zulu_63,

Summary by start number:

Start 29:

- Found in 44 of 765 (5.8%) of genes in pham
- Manual Annotations of this start: 1 of 755
- Called 2.3% of time when present
- Phage (with cluster) where this start called: Yogi_48 (CA),

Start 33:

- Found in 5 of 765 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 755
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Phaded_60 (A2),

Start 34:

- Found in 18 of 765 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 755
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Whabigail7_61 (A2),

Start 35:

- Found in 1 of 765 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 755
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bluefalcon_53 (A5),

Start 39:

- Found in 4 of 765 (0.5%) of genes in pham
- Manual Annotations of this start: 4 of 755
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Blinn1_64 (A6), JewelBug_62 (A6), Jordennis_60 (A6), Priamo_63 (A6),

Start 41:

- Found in 4 of 765 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 755
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Kalpine_58 (A2),

Start 42:

- Found in 5 of 765 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 755
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Mule_53 (A1), Smairt_58 (A1),

Start 47:

- Found in 3 of 765 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 755
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Aeneas_58 (A1),

Start 48:

- Found in 19 of 765 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 755
- Called 10.5% of time when present
- Phage (with cluster) where this start called: EdogawaKiddo_58 (A9), Updawg_61 (A2),

Start 49:

- Found in 5 of 765 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 755
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Ibantik_37 (singleton),

Start 51:

- Found in 52 of 765 (6.8%) of genes in pham
- Manual Annotations of this start: 49 of 755
- Called 94.2% of time when present
- Phage (with cluster) where this start called: AbbyPaige_62 (A2), Agape74_62 (A2), Anselm_61 (A2), BabyBack_58 (A2), Bactobuster_58 (A2), Baehexic_59 (A2), BiancaTri92_60 (A2), Buggy_62 (A2), Centaur_61 (A2), Changeling_59 (A2), ChipMunk_62 (A2), Crucio_60 (A2), Dalmatian_61 (A2), Dignity_62 (A2), Drake55_62 (A2), DudeLittle_59 (A2), EvilGenius_62 (A2), Fameo_60 (A2), FiringLine_60 (A2), Flare16_60 (A2), GaugeLDP_57 (A2), Georgie2_61 (A2), Heffalump_59 (A2), IronMan_59 (A2), Jaan_60 (A2), Jerm_62 (A2), JoshKayV_62 (A2), Landor_60 (A2), Leogania_60 (A2), Leviathan_62 (A2), LilTurb_61 (A2), MiculUcigas_60 (A2), NaSiaTalie_60 (A2), NicoleTera_58 (A2), Piro94_60 (A2), Power_59 (A2), Pukovnik_58 (A2), QueenB2_59 (A2), QueenBeesly_60 (A2), Retro23_61 (A2), SemperFi_61 (A2), Shygu2_55 (A4), Smeagan_63 (A2), SnapTap_60 (A2), SweetiePie_60 (A2), Trooper_61 (A2), Turbido_61 (A2), WideWale_61 (A2), XianYue_58 (A2),

Start 52:

- Found in 7 of 765 (0.9%) of genes in pham
- Manual Annotations of this start: 7 of 755
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chargerpower_58 (A), Dennebes_63 (BF), Kumquat_58 (BF), Stella_62 (BF), Toaka_60 (A9), WRightOn_62 (BF), Zeigle_58 (BF),

Start 53:

- Found in 22 of 765 (2.9%) of genes in pham
- Manual Annotations of this start: 21 of 755
- Called 95.5% of time when present
- Phage (with cluster) where this start called: Drake94_55 (A10), HaugeAnator_59 (BF), Immanuel3_58 (BF), Isca_58 (A3), JF2_57 (A3), JF4_57 (A3), JPandJE_59 (BF), KittenMittens_54 (A10), MA5_59 (A3), MK4_59 (A3), Manuel_56 (BF), Olicious_59 (BF), PeaceMeal1_55 (A10), Percastrophe_59 (BF), Phantastic_60 (A3), Romero_59 (BF), RosePharie_59 (BF), Severus_55 (A10), ToriToki_59 (BF),

Treat_59 (BF), ZooBear_59 (BF),

Start 55:

- Found in 24 of 765 (3.1%) of genes in pham
- Manual Annotations of this start: 24 of 755
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabyRay_59 (A3), BlueBird_61 (A3), Caviar_58 (A3), Fred313_58 (A3), Heathen_59 (A3), HelDan_59 (A3), Hookmount_58 (A3), Idleandcovert_59 (A3), Lambert1_58 (A3), Margo_58 (A3), Noella_58 (A3), Panamaxus_56 (A3), Pistachio_60 (A3), Pocahontas_58 (A3), Popcicle_58 (A3), Puppy_60 (A3), QuinnKiro_57 (A3), ResDef_58 (A3), Scout_59 (A3), Success_30 (singleton), TNguyen7_60 (A3), Texage_57 (A3), Todacoro_58 (A3), Veracruz_57 (A3),

Start 56:

- Found in 122 of 765 (15.9%) of genes in pham
- Manual Annotations of this start: 122 of 755
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abdiel_56 (A4), Albee_56 (A4), Alberto7_57 (A4), Annyong_56 (A4), Avle17_56 (A4), Baby16_56 (A4), BangNhom_56 (A4), Bartimeaus_56 (A4), BellusTerra_57 (A4), Blackmoor_56 (A4), Bombshell_56 (A4), Broseidon_56 (A4), Bruiser_55 (A4), BubbleTrouble_55 (A4), Burger_54 (A4), Caelakin_56 (A4), Camperdownii_54 (A4), CentreCat_56 (A4), Cerulean_57 (A4), ChampagnePapi_58 (A4), Chaph_56 (A4), Che12_61 (A2), Chupacabra_55 (A10), Cintron_55 (A4), Citius_56 (A4), Clarenza_55 (A4), Cocoaberry_56 (A4), Commander_56 (A4), Connomayer_56 (A4), Deano_55 (A4), Dhanush_56 (A4), DirtyDunning_55 (A4), Druantia_56 (A4), Eagle_56 (A4), Eaglepride_58 (A10), Eapen_56 (A4), Eris_55 (A4), Eros_56 (A4), Eurydice_57 (A4), Florean_56 (A4), Flux_56 (A4), Funston_55 (A4), Gadost_56 (A4), Goose_57 (A10), HamSlice_54 (A4), Happiness_55 (A4), Holli_55 (A4), Houdini22_56 (A4), ICleared_56 (A4), Iceman_56 (A4), Iracema64_57 (A4), Jaykayelowell_54 (A4), JetBlade_56 (A4), JoongJeon_55 (A4), KFPoly_55 (A4), Kamy_55 (A4), Kingmustik0402_56 (A4), Koreni_55 (A4), Kremtemulon_56 (A4), Kristoff_56 (A10), Kyee_56 (A4), LHTSCC_58 (A4), LappelDuVide_56 (A4), Lemur_56 (A4), LittleB_56 (A4), LittleGuy_56 (A4), LochMonster_57 (A4), Lorenzo_56 (A4), Lunsford_57 (A4), Maxo_57 (A4), Mazhar510_56 (A4), Medusa_56 (A4), MeeZee_56 (A4), Melvin_58 (A4), Millski_55 (A4), Morrow_57 (A4), Nebs_57 (A4), Nemo27_56 (A4), NorthStar_55 (A4), NotAPhaseMom_56 (A4), Nyxis_56 (A4), OKCentral2016_56 (A10), OKaNui_56 (A4), Obama12_57 (A4), Ohfah_57 (A4), Palestino_55 (A4), Peaches_55 (A4), PeterPeter_56 (A4), Ph8s_61 (A2), Phacado_56 (A4), Phelipe_57 (A4), Phighter1804_56 (A4), Phontbonne_56 (A4), Pipcraft_54 (A4), Polymorphads_57 (A4), Pumbaa_56 (A4), Rebeuca_57 (A10), Relief_55 (A4), RhynO_57 (A10), Roosevelt_55 (A4), Ruin_56 (A4), Sabertooth_56 (A4), Scamp_56 (A4), SheldonCooper_57 (A4), Skipitt_55 (A4), Sparxx_57 (A4), Spino_55 (A4), Taquarus_56 (A4), Thanksgivukkah_55 (A4), TinaFeyge_55 (A4), Tinybot_55 (A4), TiroTheta9_56 (A4), Topanga_54 (A10), TroyPia_57 (A4), Twister_55 (A10), TygerBlood_56 (A4), Ulysses_55 (A4), WalterMcMickey_55 (A10), Wander_56 (A4), Wilbur_56 (A4), Wizard007_56 (A4), YoSam321_56 (A4),

Start 57:

- Found in 189 of 765 (24.7%) of genes in pham
- Manual Annotations of this start: 186 of 755
- Called 98.4% of time when present

- Phage (with cluster) where this start called: AFIS_53 (A1), Abrogate_550 (A1), Acme_57 (A1), Adahisdi_56 (A1), Ajay_57 (A1), Alsfro_60 (A1), Altman_59 (A1), Alvin_55 (A1), Anglerfish_57 (A1), Applejack_50 (A1), Arlo_54 (A1), Ashballer_58 (A1), Atkinbua_59 (A1), BPBiebs31_57 (A1), Barriga_56 (A1), Beatrix_55 (A1), BeesKnees_58 (A1), Bethlehem_56 (A1), Bexan_53 (A1), BigMau_57 (A1), BigPaolini_55 (A1), Bircsak_54 (A1), BluSpix_54 (A1), Blue_55 (A1), Bob3_54 (A1), Bones_56 (A1), Briton15_59 (A1), Bruns_55 (A1), Burton_56 (A1), Buttons_54 (A1), Bxb1_51 (A1), CactusRose_53 (A1), Carlyle_54 (A1), Chanagan_52 (A1), Charm_58 (A9), Ciao_55 (A1), ConceptII_58 (A1), Corvo_56 (A1), Crispicous1_53 (A1), Cueyllyss_57 (A1), DD5_55 (A1), Dexes_56 (A1), Doom_54 (A1), DrFeelGood_53 (A1), DreamCatcher_59 (A1), DreamTeam1_58 (A9), Dreamboat_57 (A1), Dulcie_56 (A1), Dynamix_57 (A1), Edtherson_55 (A1), Espresso_55 (A1), Euphoria_53 (A1), Eyeball_57 (A1), Fajezeel_57 (A1), Fascinus_52 (A1), Fenn_58 (A1), Forsytheast_55 (A1), Francis47_54 (A1), GageAP_56 (A1), Gandalf20_58 (A1), Gompeii16_54 (A1), Graduation_59 (A1), GrecoEtereo_56 (A1), Greg_57 (A1), Gwendoluna_59 (A1), Gyzlar_52 (A1), Hami1_49 (A1), HarryOW_55 (A1), Hermia_56 (A1), HermioneGrange_56 (A1), Homines_48 (A1), Hope4ever_57 (A1), ILeeKay_59 (A1), Ichabod_59 (A1), IgnatiusPatJac_56 (A1), JC27_58 (A1), Jasper_57 (A1), Jerm2_57 (A1), Jorgensen_56 (A1), JuliaChild_57 (A1), KBG_56 (A1), KSSJEB_55 (A1), Kanely_58 (A1), Kenmech_59 (A1), Killigrew_56 (A1), Kugel_56 (A1), KyMonks1A_58 (A1), Kykar_55 (A1), Lamina13_56 (A1), Lesedi_52 (A1), Licorice_58 (A1), LilBib_56 (A1), Lockley_54 (A1), Lopton_56 (A1), MPlant7149_54 (A1), Magnito_54 (A1), Makemake_56 (A1), Manatee_57 (A1), Marcell_53 (A1), Marchy_50 (A1), Maroc7_54 (A1), Marsha_55 (A1), MaryBeth_55 (A1), McGuire_57 (A1), MetalQZJ_54 (A1), Michley_55 (A1), Molly_57 (A1), Monet_58 (A1), Moose_55 (A1), MrGordo_55 (A1), Museum_57 (A1), NEHalo_54 (A1), Naira_58 (A1), Nerujay_58 (A1), Nhonho_55 (A1), Niza_58 (A1), Norz_57 (A1), Ohno789_57 (A1), Oogway_55 (A1), PSullivan_56 (A1), PacerPaul_55 (A1), Papez_58 (A1), Paphu_54 (A1), Paraselene_53 (A1), Pari_58 (A1), Parliament_55 (A1), PascalRango_56 (A1), PattyP_56 (A1), Payneful_55 (A1), Pelly_56 (A1), Pepe_52 (A1), Perseus_56 (A1), Petruccio_55 (A1), PherrisBueller_55 (A1), PinkPlastic_56 (A1), Pinto_56 (A1), Pippin_57 (A1), Pita2_59 (A1), QTRlifeCrisis_55 (A1), Rhynn_54 (A1), RidgeCB_55 (A1), Ringer_56 (A1), Rohr_57 (A1), Rubeus_56 (A1), Rufus_57 (A1), Ruotula_58 (A1), Rutherford_57 (A1), STLscum_58 (A1), Sagefire_58 (A1), SarFire_53 (A1), Scowl_56 (A1), Seabiscuit_58 (A1), Seanderson_57 (A1), SheaKeira_58 (A9), SkiPole_60 (A1), Slagathor_58 (A1), Smeagol_58 (A1), Snazzy_55 (A1), Solon_54 (A1), SororFago_61 (A14), Sorpresa_54 (A1), SpikeBT_55 (A1), Squee_56 (A1), StrongArm_54 (A1), Sumter_52 (A1), Sunshine924_57 (A1), SwissCheese_57 (A1), Target_56 (A1), Tasp14_57 (A1), TheloniousMonk_56 (A1), Thor_53 (A1), Topgun_55 (A1), Tote_52 (A1), Traft412_58 (A1), Treddle_56 (A1), Tripl3t_56 (A1), Trouble_58 (A1), TwoPeat_57 (A1), U2_55 (A1), Violet_54 (A1), Watermelon_56 (A1), Wheeler_56 (A1), Wilkins_55 (A1), Zeeculate_54 (A1), Zephyr_56 (A1), Zeuska_54 (A1),

Start 58:

- Found in 51 of 765 (6.7%) of genes in pham
- Manual Annotations of this start: 44 of 755
- Called 90.2% of time when present
- Phage (with cluster) where this start called: 20ES_63 (A2), AN3_63 (A2), AN9_63 (A2), ANI8_63 (A2), Aneem_61 (A11), AnnaL29_62 (A2), Bachome_62 (A11), BengiVuitton_61 (A2), BobSwaget_56 (A2), Bowtie_61 (A11), D29_58 (A2), D32_61 (A2), DBQu4n_62 (A2), Deloris_61 (A2), Duplo_62 (A2), Ebony_60 (A11), Fibonacci_60 (A11), First_0062 (A2), Flaverint_61 (A11), Gilberta_61 (A11),

Herbertwm_58 (A2), Insomnia_61 (A11), Iwokeuplikedis_62 (A2), Jabith_61 (A11), Joselito_61 (A11), Kerberos_62 (A2), LadyBird_65 (A2), Larenn_59 (A2), Lokk_57 (A2), Loser_62 (A2), Lucivia_61 (A11), Malec_60 (A2), Naji_62 (A2), Pomar16_99 (A2), Rachaly_59 (A2), RedRock_62 (A2), Refuge_58 (A12), Sham4_60 (A11), Snape_60 (A11), StarStuff_62 (A2), Timothy_60 (A11), TinyTimmy_60 (A11), Tomathan_62 (A2), Trixie_58 (A2), VA6_61 (A2), VC3_63 (A2),

Start 59:

- Found in 15 of 765 (2.0%) of genes in pham
- Manual Annotations of this start: 12 of 755
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Astro_60 (A8), Danforth_60 (A8), Dixon_59 (A8), Groundhog_59 (A8), HINdeR_53 (A7), NearlyHeadless_60 (A8), Phillis_58 (A8), Roary_61 (A8), Saintus_55 (A8), Smeadley_60 (A8), Stephig9_60 (A8), Yecey3_61 (A9),

Start 60:

- Found in 80 of 765 (10.5%) of genes in pham
- Manual Annotations of this start: 80 of 755
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acolyte_55 (A2), Adzzy_61 (A2), Aglet_64 (A3), AgronaGT15_62 (A3), Anthony_57 (A20), Anubis_66 (A3), AugsMagnumOpus_66 (A3), Beauxregard13_63 (A3), BreSam8_63 (A3), BuzzBuzz_60 (A3), Bxz2_58 (A3), Cullens_63 (A3), Daishi_62 (A3), Dieselweasel_64 (A3), EagleEye_63 (A16), EpicPhail_64 (A3), Farber_63 (A3), Fernando_63 (A3), Gemma_62 (A3), GingkoMaracino_63 (A3), Grif_63 (A3), Groupthink_64 (A3), Grub_63 (A3), Grum1_63 (A3), GtownJaz_63 (A3), HarryHoudini_61 (A2), HashRod_64 (A3), HaveUMetTed_64 (A3), Heliosoles_62 (A3), Hercules11_63 (A3), JenCasNa_64 (A3), JeppNRM_64 (A3), Jobu08_61 (A3), Jsquared_59 (A2), KADY_63 (A3), Kalb97_64 (A3), Kalnoky_64 (A3), LBerry_64 (A3), LarryKay_63 (A3), Lilith_63 (A3), Louie6_62 (A3), Lucyedi_62 (A16), LugYA_66 (A3), MadMarie_63 (A3), Mainiac_63 (A3), Malinsilva_65 (A3), Manu_63 (A3), MarQuardt_63 (A3), Marius_64 (A3), Methuselah_58 (A3), Misomonster_64 (A3), MuchMore_66 (A3), NothingSpecial_58 (A2), Odin_58 (A2), OlanP_62 (A3), Ollie_63 (A3), P28Green_64 (A3), PGHhamlin_65 (A3), PainterBoy_62 (A16), Pembroke_63 (A3), Penny1_64 (A3), PhishRPhriends_61 (A3), Phoebe_64 (A3), Phoxy_63 (A3), Phranny_64 (A3), PurpleHaze_63 (A3), Reba_63 (A3), Rummer_62 (A3), Sabia_63 (A3), Sabinator_62 (A3), SoYo_63 (A3), SoilDragon_63 (A3), Soshari_65 (A3), Spike509_63 (A3), Stagni_63 (A3), Superchunk_58 (A2), Taurus_64 (A3), Tiffany_62 (A3), Wooldri_65 (A3), Zetzy_62 (A3),

Start 61:

- Found in 38 of 765 (5.0%) of genes in pham
- Manual Annotations of this start: 35 of 755
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Alatin_48 (CA), Alpacados_48 (CA), AngryOrchard_47 (CA), AppleCloud_46 (CA), Belenaria_49 (CA), BobbyDazzler_49 (CA), Bonanza_49 (CA), Bradshaw_49 (CA), Bryce_48 (CA), CosmicSans_49 (CA), Dinger_48 (CA), Erik_49 (CA), Espica_49 (CA), Gollum_49 (CA), Harlequin_48 (CA), Hiro_49 (CA), Jester_48 (CA), Krishelle_49 (CA), Lillie_49 (CA), Naiad_48 (CA), Nancinator_49 (CA), Natosaleda_48 (CA), Partridge_48 (CA), PhailMary_48 (CA), Phrankenstien_49 (CA), RER2_42 (CA), RGL3_43 (CA), Rasputin_49 (CA), RexFury_48 (CA), Rhodalysa_49 (CA), Shuman_49 (CA), StCroix_48 (CA),

Swann_49 (CA), TWAMP_49 (CA), Takoda_49 (CA), UhSalsa_49 (CA), Yoncess_48 (CA),

Start 62:

- Found in 84 of 765 (11.0%) of genes in pham
- Manual Annotations of this start: 80 of 755
- Called 96.4% of time when present
- Phage (with cluster) where this start called: AbbysRanger_55 (A4), Achebe_54 (A4), AgentM_53 (A5), Airmid_55 (A5), Alma_60 (A9), Aragog_53 (A5), Archetta_53 (A5), Arturo_55 (A4), AvatarAhPeg_54 (A4), Backyardigan_53 (A4), Badger_54 (A4), Benedict_58 (A5), Benvolio_57 (A2), Bonamassa_54 (A5), Bumblebee11_54 (A4), Chadwick_58 (A5), Cici_55 (A4), Cindaradix_52 (A4), Conquerage_60 (A9), Conspiracy_54 (A5), Coog_53 (A5), Cuco_54 (A5), Datway_55 (A4), Discoknowium_52 (A5), DroogsArmy_54 (A7), Dublin_54 (A5), Echild_60 (A2), Eidsmoe_60 (A9), EITiger69_57 (A5), EmyBug_59 (A9), ExplosioNervosa_60 (A9), Fayely_60 (A9), ForGetIt_54 (A5), George_52 (A5), Ghoulboy_57 (A5), HuhtaEnerson15_54 (A5), Jabiru_56 (A5), Journey13_54 (A2), Jovo_54 (A5), Katalie136_55 (A4), Kratark_56 (A4), L5_58 (A2), Lev2_54 (A5), LittleCherry_54 (A5), MarysWell_54 (A5), Micasa_55 (A5), Midas2_53 (A5), Milcery_54 (A5), Miramae_54 (A4), Morpher26_55 (A4), Mundrea_55 (A4), MyraDee_54 (A18), Naca_55 (A5), Noelle_56 (A4), PP_59 (A7), Perplexer_55 (A4), PetiteSangsue_55 (A4), PetterN_59 (A5), Pharaoh_55 (A12), Phlei_50 (A13), Phlorence_52 (A5), PickleBack_54 (A5), Priya_60 (A9), Qobbit_60 (A9), Scorpia_59 (A5), Sheen_58 (A7), Spouty_60 (A9), Stasia_55 (A4), Stink_54 (A4), Swirley_56 (A5), SydNat_57 (A5), Tarynearl_52 (A5), Theia_53 (A5), Tiger_53 (A5), Timshel_55 (A7), TopsytheTRex_57 (A2), UnionJack_88 (A5), Wile_55 (A4), Xena_54 (A4), Zimmer_57 (A12), Zolita_56 (A5),

Start 63:

- Found in 3 of 765 (0.4%) of genes in pham
- Manual Annotations of this start: 3 of 755
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jeeves_64 (A14), LoneWolf_61 (A9), Luchador_63 (A14),

Start 64:

- Found in 57 of 765 (7.5%) of genes in pham
- Manual Annotations of this start: 53 of 755
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aliter_60 (A9), ArcherNM_55 (A2), Arissanae_59 (A9), Artemis2UCLA_62 (A6), BABullseye_54 (A6), Beemo_60 (A9), Blue7_63 (A6), BogosyJay_59 (A9), Catalina_61 (A9), CloudWang3_62 (A6), Cookiedough_61 (A6), Darrell_62 (A9), Dorothea_61 (A6), Elephantoon_59 (A9), EricB_60 (A6), Gladiator_59 (A6), GreedyLawyer_60 (A6), Gruunaga_62 (A6), Hammer_62 (A6), Hanray_58 (A9), Hexamo_62 (A6), Hoot_56 (A6), HortumSL17_60 (A9), Indra_65 (A6), Isiphiwo_59 (A6), Jeffabunny_62 (A6), Kazan_62 (A6), Kipper29_61 (A6), Koko_63 (A6), Lilbunny_61 (A6), Maminiaina_59 (A9), McFly_61 (A6), Myxus_60 (A9), Neeharika16_60 (A6), Newrala_61 (A6), Onglai_58 (A9), PackMan_59 (A9), Phaeder_60 (A9), Phonnegut_60 (A9), Pioneer_60 (A9), Pmask_60 (A6), Rifter_62 (A6), Roksolana_63 (A6), RyeScarlet_61 (A9), Scherzo_60 (A9), SmellyB_61 (A6), Sunhee_62 (A14), SuperAwesome_61 (A6), ToneTone_59 (A6), Tubs_60 (A9), Tucker_62 (A6), Vanisoa_60 (A9), VohminGhazi_61 (A6), Wiks_61 (A6), WunderPhul_62 (A6), Zaka_62 (A6), Zulu_63 (A6),

Start 66:

- Found in 1 of 765 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 755
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Keziacharles14_60 (A9),

Start 67:

- Found in 63 of 765 (8.2%) of genes in pham
- Manual Annotations of this start: 1 of 755
- Called 1.6% of time when present
- Phage (with cluster) where this start called: Poompha_55 (A10),

Start 68:

- Found in 18 of 765 (2.4%) of genes in pham
- Manual Annotations of this start: 18 of 755
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia_67 (A15), Battleship_69 (A15), Boohoo_67 (A15), DekHockey33_68 (A15), Epsocamisio_64 (A15), JSwag_66 (A15), KatherineG_67 (A15), LastResort_65 (A15), Looper_66 (A15), MinecraftSteve_67 (A15), Nebulosus_65 (A15), Remus_67 (A15), Rosalind_65 (A15), ShayRa_67 (A15), Soups_67 (A15), Strosahl_67 (A15), Switzerland_66 (A15), Waits_67 (A15),

Start 69:

- Found in 2 of 765 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 755
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon_65 (A15), Nedarya_63 (A15),

Start 72:

- Found in 143 of 765 (18.7%) of genes in pham
- Manual Annotations of this start: 1 of 755
- Called 0.7% of time when present
- Phage (with cluster) where this start called: Ponzi_30 (singleton),

Start 78:

- Found in 183 of 765 (23.9%) of genes in pham
- Manual Annotations of this start: 2 of 755
- Called 1.1% of time when present
- Phage (with cluster) where this start called: JackSparrow_58 (A1), Rajelicia_56 (A1),

Summary by clusters:

There are 22 clusters represented in this pham: BF, singleton, A15, A14, A16, A11, A10, A13, A12, A18, A1, A3, A2, A5, A4, A7, A6, A9, A8, A, CA, A20,

Info for manual annotations of cluster A:

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

Info for manual annotations of cluster A1:

- Start number 42 was manually annotated 2 times for cluster A1.
- Start number 47 was manually annotated 1 time for cluster A1.

- Start number 57 was manually annotated 182 times for cluster A1.
- Start number 78 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 53 was manually annotated 4 times for cluster A10.
- Start number 56 was manually annotated 10 times for cluster A10.
- Start number 67 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A11:

- Start number 58 was manually annotated 15 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 58 was manually annotated 1 time for cluster A12.
- Start number 62 was manually annotated 2 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 57 was manually annotated 1 time for cluster A14.
- Start number 63 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 68 was manually annotated 18 times for cluster A15.
- Start number 69 was manually annotated 2 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 60 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 62 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:

- Start number 33 was manually annotated 1 time for cluster A2.
- Start number 34 was manually annotated 1 time for cluster A2.
- Start number 41 was manually annotated 1 time for cluster A2.
- Start number 48 was manually annotated 1 time for cluster A2.
- Start number 51 was manually annotated 48 times for cluster A2.
- Start number 56 was manually annotated 2 times for cluster A2.
- Start number 58 was manually annotated 28 times for cluster A2.
- Start number 60 was manually annotated 7 times for cluster A2.
- Start number 62 was manually annotated 5 times for cluster A2.
- Start number 64 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:

- Start number 60 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 53 was manually annotated 6 times for cluster A3.
- Start number 55 was manually annotated 23 times for cluster A3.
- Start number 60 was manually annotated 69 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 51 was manually annotated 1 time for cluster A4.
- Start number 56 was manually annotated 110 times for cluster A4.

- Start number 62 was manually annotated 22 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 35 was manually annotated 1 time for cluster A5.
- Start number 62 was manually annotated 37 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 39 was manually annotated 4 times for cluster A6.
- Start number 64 was manually annotated 35 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 59 was manually annotated 1 time for cluster A7.
- Start number 62 was manually annotated 4 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 59 was manually annotated 10 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 52 was manually annotated 1 time for cluster A9.
- Start number 57 was manually annotated 3 times for cluster A9.
- Start number 59 was manually annotated 1 time for cluster A9.
- Start number 62 was manually annotated 9 times for cluster A9.
- Start number 63 was manually annotated 1 time for cluster A9.
- Start number 64 was manually annotated 17 times for cluster A9.
- Start number 66 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster BF:

- Start number 52 was manually annotated 5 times for cluster BF.
- Start number 53 was manually annotated 11 times for cluster BF.

Info for manual annotations of cluster CA:

- Start number 29 was manually annotated 1 time for cluster CA.
- Start number 61 was manually annotated 35 times for cluster CA.

Gene Information:

Gene: 20ES_63 Start: 39573, Stop: 39181, Start Num: 58

Candidate Starts for 20ES_63:

(Start: 58 @39573 has 44 MA's), (86, 39414), (89, 39390), (96, 39360), (97, 39318),

Gene: AFIS_53 Start: 38460, Stop: 38050, Start Num: 57

Candidate Starts for AFIS_53:

(Start: 57 @38460 has 186 MA's), (Start: 78 @38379 has 2 MA's), (93, 38256),

Gene: AN3_63 Start: 38288, Stop: 37896, Start Num: 58

Candidate Starts for AN3_63:

(Start: 58 @38288 has 44 MA's), (86, 38129), (89, 38105), (96, 38075), (97, 38033),

Gene: AN9_63 Start: 39554, Stop: 39165, Start Num: 58

Candidate Starts for AN9_63:

(22, 39698), (26, 39677), (Start: 58 @39554 has 44 MA's), (89, 39374), (96, 39344), (97, 39302),

Gene: ANI8_63 Start: 39554, Stop: 39165, Start Num: 58
Candidate Starts for ANI8_63:
(22, 39698), (26, 39677), (Start: 58 @39554 has 44 MA's), (89, 39374), (96, 39344), (97, 39302),

Gene: AbbyPaige_62 Start: 39636, Stop: 39235, Start Num: 51
Candidate Starts for AbbyPaige_62:
(Start: 34 @39681 has 1 MA's), (Start: 51 @39636 has 49 MA's), (89, 39444), (96, 39414), (97, 39372),

Gene: AbbysRanger_55 Start: 38326, Stop: 37922, Start Num: 62
Candidate Starts for AbbysRanger_55:
(Start: 62 @38326 has 80 MA's), (80, 38236), (81, 38197), (89, 38143), (96, 38113),

Gene: Abdiel_56 Start: 38369, Stop: 37956, Start Num: 56
Candidate Starts for Abdiel_56:
(Start: 56 @38369 has 122 MA's), (83, 38222), (88, 38189), (89, 38177), (96, 38147),

Gene: Abrogate_550 Start: 40397, Stop: 39882, Start Num: 57
Candidate Starts for Abrogate_550:
(Start: 57 @40397 has 186 MA's), (Start: 78 @40316 has 2 MA's), (81, 40262), (91, 40199), (92, 40196), (93, 40193), (96, 40178), (100, 39950), (101, 39932),

Gene: Achebe_54 Start: 38309, Stop: 37905, Start Num: 62
Candidate Starts for Achebe_54:
(Start: 62 @38309 has 80 MA's), (80, 38219), (81, 38180), (89, 38126), (96, 38096),

Gene: Acme_57 Start: 38994, Stop: 38479, Start Num: 57
Candidate Starts for Acme_57:
(Start: 57 @38994 has 186 MA's), (Start: 78 @38913 has 2 MA's), (81, 38859), (91, 38796), (93, 38790), (96, 38775), (100, 38547), (101, 38529),

Gene: Acolyte_55 Start: 38449, Stop: 38057, Start Num: 60
Candidate Starts for Acolyte_55:
(Start: 60 @38449 has 80 MA's), (89, 38266), (96, 38236), (97, 38194),

Gene: Adahisdi_56 Start: 40127, Stop: 39612, Start Num: 57
Candidate Starts for Adahisdi_56:
(Start: 57 @40127 has 186 MA's), (Start: 78 @40046 has 2 MA's), (81, 39992), (91, 39929), (93, 39923), (96, 39908), (100, 39680), (101, 39662),

Gene: Adzzy_61 Start: 38099, Stop: 37707, Start Num: 60
Candidate Starts for Adzzy_61:
(Start: 60 @38099 has 80 MA's), (Start: 72 @38072 has 1 MA's), (89, 37916), (96, 37886), (97, 37844),

Gene: Aeneas_58 Start: 40365, Stop: 39829, Start Num: 47
Candidate Starts for Aeneas_58:
(Start: 42 @40374 has 2 MA's), (Start: 47 @40365 has 1 MA's), (84, 40197), (86, 40179), (91, 40146), (93, 40140), (96, 40125), (100, 39897), (101, 39879),

Gene: Agape74_62 Start: 39630, Stop: 39229, Start Num: 51
Candidate Starts for Agape74_62:

(Start: 34 @39675 has 1 MA's), (Start: 51 @39630 has 49 MA's), (89, 39438), (96, 39408), (97, 39366),

Gene: AgentM_53 Start: 38350, Stop: 37940, Start Num: 62

Candidate Starts for AgentM_53:

(Start: 62 @38350 has 80 MA's), (82, 38215), (87, 38188), (88, 38179), (96, 38137),

Gene: Aglet_64 Start: 39122, Stop: 38715, Start Num: 60

Candidate Starts for Aglet_64:

(Start: 60 @39122 has 80 MA's), (Start: 67 @39107 has 1 MA's), (Start: 72 @39095 has 1 MA's), (79, 39038), (90, 38933), (96, 38906),

Gene: AgronaGT15_62 Start: 38970, Stop: 38563, Start Num: 60

Candidate Starts for AgronaGT15_62:

(Start: 60 @38970 has 80 MA's), (Start: 67 @38955 has 1 MA's), (Start: 72 @38943 has 1 MA's), (79, 38886), (90, 38781), (96, 38754),

Gene: Airmid_55 Start: 38494, Stop: 38084, Start Num: 62

Candidate Starts for Airmid_55:

(Start: 62 @38494 has 80 MA's), (82, 38359), (88, 38323), (96, 38281),

Gene: Ajay_57 Start: 40122, Stop: 39607, Start Num: 57

Candidate Starts for Ajay_57:

(Start: 57 @40122 has 186 MA's), (Start: 78 @40041 has 2 MA's), (81, 39987), (91, 39924), (93, 39918), (96, 39903), (100, 39675), (101, 39657),

Gene: Alatin_48 Start: 35573, Stop: 35163, Start Num: 61

Candidate Starts for Alatin_48:

(Start: 29 @35669 has 1 MA's), (Start: 61 @35573 has 35 MA's), (Start: 72 @35543 has 1 MA's), (76, 35507), (95, 35363), (96, 35354),

Gene: Albee_56 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for Albee_56:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Alberto7_57 Start: 38705, Stop: 38292, Start Num: 56

Candidate Starts for Alberto7_57:

(Start: 56 @38705 has 122 MA's), (83, 38558), (88, 38525), (89, 38513), (96, 38483),

Gene: Aliter_60 Start: 38999, Stop: 38616, Start Num: 64

Candidate Starts for Aliter_60:

(Start: 48 @39029 has 1 MA's), (Start: 64 @38999 has 53 MA's), (86, 38843), (89, 38819), (96, 38789), (97, 38747),

Gene: Alma_60 Start: 39374, Stop: 38991, Start Num: 62

Candidate Starts for Alma_60:

(50, 39401), (Start: 62 @39374 has 80 MA's), (86, 39218), (89, 39194), (96, 39164), (97, 39122),

Gene: Alpacados_48 Start: 35475, Stop: 35065, Start Num: 61

Candidate Starts for Alpacados_48:

(Start: 29 @35571 has 1 MA's), (Start: 61 @35475 has 35 MA's), (Start: 72 @35445 has 1 MA's), (76, 35409), (95, 35265), (96, 35256),

Gene: Alsfro_60 Start: 39698, Stop: 39183, Start Num: 57

Candidate Starts for Alsfro_60:

(Start: 57 @39698 has 186 MA's), (Start: 78 @39617 has 2 MA's), (81, 39563), (91, 39500), (93, 39494), (96, 39479), (100, 39251), (101, 39233),

Gene: Altman_59 Start: 40314, Stop: 39799, Start Num: 57

Candidate Starts for Altman_59:

(Start: 57 @40314 has 186 MA's), (Start: 78 @40233 has 2 MA's), (81, 40179), (91, 40116), (93, 40110), (96, 40095), (100, 39867), (101, 39849),

Gene: Alvin_55 Start: 39447, Stop: 38932, Start Num: 57

Candidate Starts for Alvin_55:

(Start: 57 @39447 has 186 MA's), (Start: 78 @39366 has 2 MA's), (81, 39312), (91, 39249), (93, 39243), (96, 39228), (100, 39000), (101, 38982),

Gene: Anaysia_67 Start: 38716, Stop: 38336, Start Num: 68

Candidate Starts for Anaysia_67:

(Start: 68 @38716 has 18 MA's), (86, 38569), (96, 38512), (97, 38470),

Gene: Aneem_61 Start: 38877, Stop: 38488, Start Num: 58

Candidate Starts for Aneem_61:

(1, 39306), (4, 39243), (22, 39021), (Start: 58 @38877 has 44 MA's), (96, 38667), (97, 38625),

Gene: Anglerfish_57 Start: 40357, Stop: 39947, Start Num: 57

Candidate Starts for Anglerfish_57:

(Start: 57 @40357 has 186 MA's), (Start: 78 @40276 has 2 MA's), (93, 40153),

Gene: AngryOrchard_47 Start: 35635, Stop: 35225, Start Num: 61

Candidate Starts for AngryOrchard_47:

(Start: 29 @35731 has 1 MA's), (Start: 61 @35635 has 35 MA's), (Start: 72 @35605 has 1 MA's), (76, 35569), (95, 35425), (96, 35416),

Gene: AnnaL29_62 Start: 39988, Stop: 39593, Start Num: 58

Candidate Starts for AnnaL29_62:

(14, 40228), (22, 40132), (Start: 58 @39988 has 44 MA's), (Start: 72 @39958 has 1 MA's), (96, 39772), (97, 39730),

Gene: Annyong_56 Start: 38413, Stop: 38000, Start Num: 56

Candidate Starts for Annyong_56:

(Start: 56 @38413 has 122 MA's), (81, 38275), (83, 38266), (88, 38233), (89, 38221), (96, 38191),

Gene: Anon_65 Start: 38474, Stop: 38100, Start Num: 69

Candidate Starts for Anon_65:

(Start: 69 @38474 has 2 MA's), (Start: 72 @38462 has 1 MA's), (81, 38360), (86, 38330), (88, 38318), (96, 38276), (97, 38234),

Gene: Anselm_61 Start: 39540, Stop: 39136, Start Num: 51

Candidate Starts for Anselm_61:

(Start: 29 @39615 has 1 MA's), (Start: 51 @39540 has 49 MA's), (96, 39315), (97, 39273),

Gene: Anthony_57 Start: 37294, Stop: 36890, Start Num: 60

Candidate Starts for Anthony_57:

(Start: 60 @37294 has 80 MA's), (Start: 72 @37270 has 1 MA's), (89, 37111), (96, 37081), (98, 36961),

Gene: Anubis_66 Start: 39008, Stop: 38601, Start Num: 60

Candidate Starts for Anubis_66:

(Start: 60 @39008 has 80 MA's), (Start: 67 @38993 has 1 MA's), (79, 38924), (90, 38819), (96, 38792),

Gene: AppleCloud_46 Start: 35300, Stop: 34890, Start Num: 61

Candidate Starts for AppleCloud_46:

(Start: 29 @35396 has 1 MA's), (Start: 61 @35300 has 35 MA's), (Start: 72 @35270 has 1 MA's), (76, 35234), (95, 35090), (96, 35081),

Gene: Applejack_50 Start: 36284, Stop: 35769, Start Num: 57

Candidate Starts for Applejack_50:

(Start: 57 @36284 has 186 MA's), (Start: 78 @36203 has 2 MA's), (81, 36149), (91, 36086), (93, 36080), (96, 36065), (100, 35837), (101, 35819),

Gene: Aragog_53 Start: 38370, Stop: 37960, Start Num: 62

Candidate Starts for Aragog_53:

(Start: 62 @38370 has 80 MA's), (82, 38235), (87, 38208), (88, 38199), (96, 38157),

Gene: ArcherNM_55 Start: 38984, Stop: 38595, Start Num: 64

Candidate Starts for ArcherNM_55:

(Start: 64 @38984 has 53 MA's), (89, 38804), (96, 38774), (97, 38732),

Gene: Archetta_53 Start: 38780, Stop: 38370, Start Num: 62

Candidate Starts for Archetta_53:

(Start: 62 @38780 has 80 MA's), (82, 38645), (87, 38618), (88, 38609), (96, 38567),

Gene: Arissanae_59 Start: 39690, Stop: 39304, Start Num: 64

Candidate Starts for Arissanae_59:

(Start: 64 @39690 has 53 MA's), (80, 39600), (86, 39531), (89, 39507), (96, 39477),

Gene: Arlo_54 Start: 38524, Stop: 38114, Start Num: 57

Candidate Starts for Arlo_54:

(Start: 57 @38524 has 186 MA's), (74, 38467), (Start: 78 @38443 has 2 MA's), (93, 38320),

Gene: Artemis2UCLA_62 Start: 38052, Stop: 37663, Start Num: 64

Candidate Starts for Artemis2UCLA_62:

(Start: 64 @38052 has 53 MA's), (89, 37872), (96, 37842), (97, 37800),

Gene: Arturo_55 Start: 38598, Stop: 38194, Start Num: 62

Candidate Starts for Arturo_55:

(Start: 62 @38598 has 80 MA's), (80, 38508), (81, 38469), (88, 38427), (89, 38415), (96, 38385),

Gene: Ashballer_58 Start: 40207, Stop: 39692, Start Num: 57

Candidate Starts for Ashballer_58:

(Start: 57 @40207 has 186 MA's), (74, 40150), (Start: 78 @40126 has 2 MA's), (81, 40072), (91, 40009), (93, 40003), (96, 39988), (100, 39760), (101, 39742),

Gene: Astro_60 Start: 38374, Stop: 37961, Start Num: 59

Candidate Starts for Astro_60:

(Start: 59 @38374 has 12 MA's), (Start: 72 @38347 has 1 MA's), (87, 38209), (88, 38200),

Gene: Atkinbua_59 Start: 39920, Stop: 39510, Start Num: 57

Candidate Starts for Atkinbua_59:

(Start: 57 @39920 has 186 MA's), (Start: 78 @39839 has 2 MA's), (93, 39716),

Gene: AugsMagnumOpus_66 Start: 39113, Stop: 38706, Start Num: 60

Candidate Starts for AugsMagnumOpus_66:

(Start: 60 @39113 has 80 MA's), (Start: 67 @39098 has 1 MA's), (Start: 72 @39086 has 1 MA's), (79, 39029), (90, 38924), (96, 38897),

Gene: AvatarAhPeg_54 Start: 38111, Stop: 37707, Start Num: 62

Candidate Starts for AvatarAhPeg_54:

(Start: 62 @38111 has 80 MA's), (81, 37982), (89, 37928), (96, 37898),

Gene: Avle17_56 Start: 38365, Stop: 37952, Start Num: 56

Candidate Starts for Avle17_56:

(Start: 56 @38365 has 122 MA's), (83, 38218), (88, 38185), (89, 38173), (96, 38143),

Gene: BABullseye_54 Start: 35607, Stop: 35215, Start Num: 64

Candidate Starts for BABullseye_54:

(Start: 64 @35607 has 53 MA's), (Start: 78 @35532 has 2 MA's), (89, 35424), (96, 35394), (97, 35352),

Gene: BPBiabs31_57 Start: 40409, Stop: 39894, Start Num: 57

Candidate Starts for BPBiabs31_57:

(Start: 57 @40409 has 186 MA's), (Start: 78 @40328 has 2 MA's), (81, 40274), (91, 40211), (93, 40205), (96, 40190), (100, 39962), (101, 39944),

Gene: Baby16_56 Start: 38379, Stop: 37966, Start Num: 56

Candidate Starts for Baby16_56:

(Start: 56 @38379 has 122 MA's), (83, 38232), (88, 38199), (89, 38187), (96, 38157),

Gene: BabyBack_58 Start: 39634, Stop: 39230, Start Num: 51

Candidate Starts for BabyBack_58:

(Start: 51 @39634 has 49 MA's), (89, 39439), (96, 39409), (97, 39367),

Gene: BabyRay_59 Start: 38728, Stop: 38321, Start Num: 55

Candidate Starts for BabyRay_59:

(Start: 55 @38728 has 24 MA's), (81, 38596), (90, 38539), (96, 38512),

Gene: Bachome_62 Start: 38857, Stop: 38468, Start Num: 58

Candidate Starts for Bachome_62:

(1, 39286), (4, 39223), (22, 39001), (Start: 58 @38857 has 44 MA's), (96, 38647), (97, 38605),

Gene: Backyardigan_53 Start: 38342, Stop: 37938, Start Num: 62

Candidate Starts for Backyardigan_53:

(Start: 62 @38342 has 80 MA's), (80, 38252), (81, 38213), (89, 38159), (96, 38129),

Gene: Bactobuster_58 Start: 39948, Stop: 39544, Start Num: 51

Candidate Starts for Bactobuster_58:

(Start: 33 @40014 has 1 MA's), (Start: 34 @39996 has 1 MA's), (36, 39990), (38, 39984), (Start: 51 @39948 has 49 MA's), (86, 39777), (88, 39765), (89, 39753), (96, 39723), (97, 39681),

Gene: Badger_54 Start: 38310, Stop: 37906, Start Num: 62

Candidate Starts for Badger_54:

(Start: 62 @38310 has 80 MA's), (80, 38220), (81, 38181), (89, 38127), (96, 38097),

Gene: Baehexic_59 Start: 39111, Stop: 38707, Start Num: 51

Candidate Starts for Baehexic_59:

(38, 39144), (Start: 48 @39117 has 1 MA's), (Start: 51 @39111 has 49 MA's), (89, 38916), (96, 38886),

Gene: BangNhom_56 Start: 38771, Stop: 38358, Start Num: 56

Candidate Starts for BangNhom_56:

(Start: 56 @38771 has 122 MA's), (83, 38624), (89, 38579), (96, 38549),

Gene: Barriga_56 Start: 38634, Stop: 38119, Start Num: 57

Candidate Starts for Barriga_56:

(Start: 57 @38634 has 186 MA's), (Start: 78 @38553 has 2 MA's), (81, 38499), (91, 38436), (93, 38430), (96, 38415), (100, 38187), (101, 38169),

Gene: Bartimeaus_56 Start: 38370, Stop: 37957, Start Num: 56

Candidate Starts for Bartimeaus_56:

(Start: 56 @38370 has 122 MA's), (83, 38223), (88, 38190), (89, 38178), (96, 38148),

Gene: Battleship_69 Start: 38922, Stop: 38542, Start Num: 68

Candidate Starts for Battleship_69:

(Start: 68 @38922 has 18 MA's), (86, 38775), (96, 38718), (97, 38676),

Gene: Beatrix_55 Start: 40340, Stop: 39798, Start Num: 57

Candidate Starts for Beatrix_55:

(11, 40610), (14, 40574), (Start: 57 @40340 has 186 MA's), (Start: 78 @40259 has 2 MA's), (81, 40205), (91, 40142), (93, 40136), (96, 40121), (100, 39893), (101, 39875),

Gene: Beauxregard13_63 Start: 39125, Stop: 38718, Start Num: 60

Candidate Starts for Beauxregard13_63:

(Start: 60 @39125 has 80 MA's), (Start: 67 @39110 has 1 MA's), (Start: 72 @39098 has 1 MA's), (79, 39041), (90, 38936), (96, 38909),

Gene: Beemo_60 Start: 39169, Stop: 38786, Start Num: 64

Candidate Starts for Beemo_60:

(Start: 48 @39199 has 1 MA's), (Start: 64 @39169 has 53 MA's), (86, 39013), (89, 38989), (96, 38959), (97, 38917),

Gene: BeesKnees_58 Start: 39493, Stop: 38978, Start Num: 57

Candidate Starts for BeesKnees_58:

(Start: 57 @39493 has 186 MA's), (Start: 78 @39412 has 2 MA's), (81, 39358), (91, 39295), (93, 39289), (96, 39274), (100, 39046), (101, 39028),

Gene: Belenaria_49 Start: 35448, Stop: 35038, Start Num: 61

Candidate Starts for Belenaria_49:

(Start: 29 @35544 has 1 MA's), (Start: 61 @35448 has 35 MA's), (Start: 72 @35418 has 1 MA's), (76, 35382), (95, 35238), (96, 35229),

Gene: BellusTerra_57 Start: 38369, Stop: 37956, Start Num: 56

Candidate Starts for BellusTerra_57:
(Start: 56 @38369 has 122 MA's), (83, 38222), (88, 38189), (89, 38177), (96, 38147),

Gene: Benedict_58 Start: 38742, Stop: 38332, Start Num: 62
Candidate Starts for Benedict_58:
(Start: 62 @38742 has 80 MA's), (82, 38607), (87, 38580), (88, 38571), (96, 38529),

Gene: BengiVuitton_61 Start: 39544, Stop: 39152, Start Num: 58
Candidate Starts for BengiVuitton_61:
(Start: 58 @39544 has 44 MA's), (86, 39385), (89, 39361), (96, 39331), (97, 39289),

Gene: Benvolio_57 Start: 38549, Stop: 38160, Start Num: 62
Candidate Starts for Benvolio_57:
(Start: 62 @38549 has 80 MA's), (96, 38339), (97, 38297),

Gene: Bethlehem_56 Start: 40991, Stop: 40581, Start Num: 57
Candidate Starts for Bethlehem_56:
(Start: 57 @40991 has 186 MA's), (Start: 78 @40910 has 2 MA's), (93, 40787),

Gene: Bexan_53 Start: 40119, Stop: 39604, Start Num: 57
Candidate Starts for Bexan_53:
(11, 40389), (14, 40353), (Start: 57 @40119 has 186 MA's), (Start: 78 @40038 has 2 MA's), (81, 39984), (91, 39921), (93, 39915), (96, 39900), (100, 39672), (101, 39654),

Gene: BiancaTri92_60 Start: 39704, Stop: 39300, Start Num: 51
Candidate Starts for BiancaTri92_60:
(Start: 34 @39752 has 1 MA's), (Start: 51 @39704 has 49 MA's), (89, 39509), (96, 39479), (97, 39437),

Gene: BigMau_57 Start: 38862, Stop: 38452, Start Num: 57
Candidate Starts for BigMau_57:
(Start: 57 @38862 has 186 MA's), (Start: 78 @38781 has 2 MA's), (93, 38658),

Gene: BigPaolini_55 Start: 37719, Stop: 37204, Start Num: 57
Candidate Starts for BigPaolini_55:
(Start: 57 @37719 has 186 MA's), (Start: 78 @37638 has 2 MA's), (81, 37584), (91, 37521), (93, 37515), (96, 37500), (100, 37272), (101, 37254),

Gene: Bircsak_54 Start: 40238, Stop: 39723, Start Num: 57
Candidate Starts for Bircsak_54:
(Start: 57 @40238 has 186 MA's), (Start: 78 @40157 has 2 MA's), (81, 40103), (91, 40040), (93, 40034), (96, 40019), (100, 39791), (101, 39773),

Gene: Blackmoor_56 Start: 38370, Stop: 37957, Start Num: 56
Candidate Starts for Blackmoor_56:
(Start: 56 @38370 has 122 MA's), (83, 38223), (88, 38190), (89, 38178), (96, 38148),

Gene: Blinn1_64 Start: 38109, Stop: 37681, Start Num: 39
Candidate Starts for Blinn1_64:
(Start: 39 @38109 has 4 MA's), (Start: 58 @38073 has 44 MA's), (88, 37902), (89, 37890), (96, 37860), (97, 37818),

Gene: BluSpix_54 Start: 35500, Stop: 34985, Start Num: 57

Candidate Starts for BluSpix_54:

(Start: 57 @35500 has 186 MA's), (74, 35443), (Start: 78 @35419 has 2 MA's), (81, 35365), (91, 35302), (93, 35296), (96, 35281), (100, 35053), (101, 35035),

Gene: Blue_55 Start: 40154, Stop: 39639, Start Num: 57

Candidate Starts for Blue_55:

(Start: 57 @40154 has 186 MA's), (Start: 78 @40073 has 2 MA's), (81, 40019), (91, 39956), (93, 39950), (96, 39935), (100, 39707), (101, 39689),

Gene: Blue7_63 Start: 38146, Stop: 37757, Start Num: 64

Candidate Starts for Blue7_63:

(Start: 64 @38146 has 53 MA's), (89, 37966), (96, 37936), (97, 37894),

Gene: BlueBird_61 Start: 38772, Stop: 38365, Start Num: 55

Candidate Starts for BlueBird_61:

(Start: 55 @38772 has 24 MA's), (81, 38640), (90, 38583), (96, 38556),

Gene: Bluefalcon_53 Start: 38991, Stop: 38515, Start Num: 35

Candidate Starts for Bluefalcon_53:

(2, 39357), (3, 39324), (5, 39294), (6, 39270), (7, 39249), (9, 39234), (10, 39207), (16, 39147), (20, 39108), (21, 39099), (24, 39060), (Start: 35 @38991 has 1 MA's), (Start: 62 @38925 has 80 MA's), (82, 38790), (87, 38763), (88, 38754), (96, 38712),

Gene: Bob3_54 Start: 38128, Stop: 37613, Start Num: 57

Candidate Starts for Bob3_54:

(Start: 57 @38128 has 186 MA's), (Start: 78 @38047 has 2 MA's), (81, 37993), (91, 37930), (93, 37924), (96, 37909), (100, 37681), (101, 37663),

Gene: BobSwaget_56 Start: 38031, Stop: 37636, Start Num: 58

Candidate Starts for BobSwaget_56:

(Start: 58 @38031 has 44 MA's), (89, 37845), (96, 37815), (97, 37773),

Gene: BobbyDazzler_49 Start: 35552, Stop: 35142, Start Num: 61

Candidate Starts for BobbyDazzler_49:

(Start: 29 @35648 has 1 MA's), (Start: 61 @35552 has 35 MA's), (Start: 72 @35522 has 1 MA's), (76, 35486), (95, 35342), (96, 35333),

Gene: BogosyJay_59 Start: 39091, Stop: 38705, Start Num: 64

Candidate Starts for BogosyJay_59:

(Start: 64 @39091 has 53 MA's), (86, 38932), (88, 38920), (89, 38908), (96, 38878), (97, 38836),

Gene: Bombshell_56 Start: 38365, Stop: 37952, Start Num: 56

Candidate Starts for Bombshell_56:

(Start: 56 @38365 has 122 MA's), (83, 38218), (88, 38185), (89, 38173), (96, 38143),

Gene: Bonamassa_54 Start: 38799, Stop: 38389, Start Num: 62

Candidate Starts for Bonamassa_54:

(Start: 62 @38799 has 80 MA's), (82, 38664), (87, 38637), (88, 38628), (96, 38586),

Gene: Bonanza_49 Start: 35477, Stop: 35067, Start Num: 61

Candidate Starts for Bonanza_49:

(Start: 29 @35573 has 1 MA's), (Start: 61 @35477 has 35 MA's), (Start: 72 @35447 has 1 MA's), (76, 35411), (95, 35267), (96, 35258),

Gene: Bones_56 Start: 40534, Stop: 40118, Start Num: 57
Candidate Starts for Bones_56:
(Start: 57 @40534 has 186 MA's), (86, 40369), (93, 40330), (96, 40315),

Gene: Boohoo_67 Start: 38716, Stop: 38336, Start Num: 68
Candidate Starts for Boohoo_67:
(Start: 68 @38716 has 18 MA's), (86, 38569), (96, 38512), (97, 38470),

Gene: Bowtie_61 Start: 38884, Stop: 38495, Start Num: 58
Candidate Starts for Bowtie_61:
(Start: 58 @38884 has 44 MA's), (96, 38674), (97, 38632),

Gene: Bradshaw_49 Start: 35506, Stop: 35096, Start Num: 61
Candidate Starts for Bradshaw_49:
(Start: 29 @35602 has 1 MA's), (Start: 61 @35506 has 35 MA's), (Start: 72 @35476 has 1 MA's), (76, 35440), (95, 35296), (96, 35287),

Gene: BreSam8_63 Start: 39115, Stop: 38708, Start Num: 60
Candidate Starts for BreSam8_63:
(Start: 60 @39115 has 80 MA's), (Start: 67 @39100 has 1 MA's), (Start: 72 @39088 has 1 MA's), (79, 39031), (90, 38926), (96, 38899),

Gene: Briton15_59 Start: 39815, Stop: 39300, Start Num: 57
Candidate Starts for Briton15_59:
(Start: 57 @39815 has 186 MA's), (Start: 78 @39734 has 2 MA's), (81, 39680), (91, 39617), (93, 39611), (96, 39596), (100, 39368), (101, 39350),

Gene: Broseidon_56 Start: 38370, Stop: 37957, Start Num: 56
Candidate Starts for Broseidon_56:
(Start: 56 @38370 has 122 MA's), (83, 38223), (88, 38190), (89, 38178), (96, 38148),

Gene: Bruiser_55 Start: 38368, Stop: 37955, Start Num: 56
Candidate Starts for Bruiser_55:
(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Bruns_55 Start: 38696, Stop: 38181, Start Num: 57
Candidate Starts for Bruns_55:
(Start: 57 @38696 has 186 MA's), (Start: 78 @38615 has 2 MA's), (81, 38561), (91, 38498), (93, 38492), (96, 38477), (100, 38249), (101, 38231),

Gene: Bryce_48 Start: 35260, Stop: 34850, Start Num: 61
Candidate Starts for Bryce_48:
(Start: 29 @35356 has 1 MA's), (Start: 61 @35260 has 35 MA's), (Start: 72 @35230 has 1 MA's), (76, 35194), (95, 35050), (96, 35041),

Gene: BubbleTrouble_55 Start: 38368, Stop: 37955, Start Num: 56
Candidate Starts for BubbleTrouble_55:
(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Buggy_62 Start: 39687, Stop: 39286, Start Num: 51
Candidate Starts for Buggy_62:

(Start: 34 @39732 has 1 MA's), (Start: 51 @39687 has 49 MA's), (89, 39495), (96, 39465), (97, 39423),

Gene: Bumblebee11_54 Start: 38312, Stop: 37908, Start Num: 62

Candidate Starts for Bumblebee11_54:

(Start: 62 @38312 has 80 MA's), (80, 38222), (81, 38183), (89, 38129), (96, 38099),

Gene: Burger_54 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for Burger_54:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Burton_56 Start: 39801, Stop: 39391, Start Num: 57

Candidate Starts for Burton_56:

(Start: 57 @39801 has 186 MA's), (Start: 78 @39720 has 2 MA's), (93, 39597),

Gene: Buttons_54 Start: 37645, Stop: 37130, Start Num: 57

Candidate Starts for Buttons_54:

(Start: 57 @37645 has 186 MA's), (Start: 78 @37564 has 2 MA's), (81, 37510), (91, 37447), (93, 37441), (96, 37426), (100, 37198), (101, 37180),

Gene: BuzzBuzz_60 Start: 39149, Stop: 38742, Start Num: 60

Candidate Starts for BuzzBuzz_60:

(Start: 60 @39149 has 80 MA's), (Start: 67 @39134 has 1 MA's), (Start: 72 @39122 has 1 MA's), (79, 39065), (90, 38960), (96, 38933),

Gene: Bxb1_51 Start: 38396, Stop: 37881, Start Num: 57

Candidate Starts for Bxb1_51:

(Start: 57 @38396 has 186 MA's), (Start: 78 @38315 has 2 MA's), (81, 38261), (91, 38198), (93, 38192), (96, 38177), (100, 37949), (101, 37931),

Gene: Bxz2_58 Start: 39156, Stop: 38749, Start Num: 60

Candidate Starts for Bxz2_58:

(Start: 60 @39156 has 80 MA's), (Start: 67 @39141 has 1 MA's), (Start: 72 @39129 has 1 MA's), (79, 39072), (90, 38967), (96, 38940),

Gene: CactusRose_53 Start: 38930, Stop: 38415, Start Num: 57

Candidate Starts for CactusRose_53:

(Start: 57 @38930 has 186 MA's), (Start: 78 @38849 has 2 MA's), (81, 38795), (91, 38732), (93, 38726), (96, 38711), (100, 38483), (101, 38465),

Gene: Caelakin_56 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for Caelakin_56:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Camperdownii_54 Start: 38042, Stop: 37629, Start Num: 56

Candidate Starts for Camperdownii_54:

(Start: 56 @38042 has 122 MA's), (83, 37895), (88, 37862), (89, 37850), (96, 37820),

Gene: Carlyle_54 Start: 36932, Stop: 36417, Start Num: 57

Candidate Starts for Carlyle_54:

(17, 37130), (19, 37118), (Start: 57 @36932 has 186 MA's), (Start: 78 @36851 has 2 MA's), (81, 36797), (91, 36734), (93, 36728), (96, 36713), (100, 36485), (101, 36467),

Gene: Catalina_61 Start: 39072, Stop: 38689, Start Num: 64
Candidate Starts for Catalina_61:
(Start: 48 @39102 has 1 MA's), (Start: 64 @39072 has 53 MA's), (86, 38916), (89, 38892), (96, 38862), (97, 38820),

Gene: Caviar_58 Start: 38737, Stop: 38330, Start Num: 55
Candidate Starts for Caviar_58:
(Start: 55 @38737 has 24 MA's), (81, 38605), (90, 38548), (96, 38521),

Gene: Centaur_61 Start: 39325, Stop: 38921, Start Num: 51
Candidate Starts for Centaur_61:
(38, 39358), (Start: 48 @39331 has 1 MA's), (Start: 51 @39325 has 49 MA's), (89, 39130), (96, 39100),

Gene: CentreCat_56 Start: 38371, Stop: 37958, Start Num: 56
Candidate Starts for CentreCat_56:
(Start: 56 @38371 has 122 MA's), (83, 38224), (88, 38191), (89, 38179), (96, 38149),

Gene: Cerulean_57 Start: 38772, Stop: 38359, Start Num: 56
Candidate Starts for Cerulean_57:
(Start: 56 @38772 has 122 MA's), (83, 38625), (89, 38580), (96, 38550),

Gene: Chadwick_58 Start: 38583, Stop: 38173, Start Num: 62
Candidate Starts for Chadwick_58:
(Start: 62 @38583 has 80 MA's), (82, 38448), (88, 38412), (96, 38370),

Gene: ChampagnePapi_58 Start: 38771, Stop: 38358, Start Num: 56
Candidate Starts for ChampagnePapi_58:
(Start: 56 @38771 has 122 MA's), (83, 38624), (89, 38579), (96, 38549),

Gene: Chanagan_52 Start: 37730, Stop: 37320, Start Num: 57
Candidate Starts for Chanagan_52:
(Start: 57 @37730 has 186 MA's), (Start: 78 @37649 has 2 MA's), (93, 37526),

Gene: Changeling_59 Start: 39741, Stop: 39337, Start Num: 51
Candidate Starts for Changeling_59:
(30, 39813), (Start: 51 @39741 has 49 MA's), (89, 39546), (96, 39516), (97, 39474),

Gene: Chaph_56 Start: 38379, Stop: 37966, Start Num: 56
Candidate Starts for Chaph_56:
(Start: 56 @38379 has 122 MA's), (74, 38319), (83, 38232), (88, 38199), (89, 38187), (96, 38157),

Gene: Chargerpower_58 Start: 37793, Stop: 37395, Start Num: 52
Candidate Starts for Chargerpower_58:
(46, 37805), (Start: 52 @37793 has 7 MA's), (Start: 57 @37781 has 186 MA's), (65, 37775), (89, 37598), (96, 37568), (97, 37526),

Gene: Charm_58 Start: 38939, Stop: 38550, Start Num: 57
Candidate Starts for Charm_58:
(Start: 57 @38939 has 186 MA's), (86, 38777), (89, 38753), (96, 38723), (97, 38681),

Gene: Che12_61 Start: 38234, Stop: 37845, Start Num: 56
Candidate Starts for Che12_61:

(Start: 56 @38234 has 122 MA's), (89, 38054), (96, 38024), (97, 37982),

Gene: ChipMunk_62 Start: 40890, Stop: 40486, Start Num: 51

Candidate Starts for ChipMunk_62:

(Start: 51 @40890 has 49 MA's), (89, 40695), (96, 40665), (97, 40623),

Gene: Chupacabra_55 Start: 38257, Stop: 37844, Start Num: 56

Candidate Starts for Chupacabra_55:

(Start: 56 @38257 has 122 MA's), (81, 38119), (90, 38062), (96, 38035),

Gene: Ciao_55 Start: 39103, Stop: 38588, Start Num: 57

Candidate Starts for Ciao_55:

(Start: 57 @39103 has 186 MA's), (Start: 78 @39022 has 2 MA's), (81, 38968), (91, 38905), (93, 38899), (96, 38884), (100, 38656), (101, 38638),

Gene: Cici_55 Start: 38327, Stop: 37923, Start Num: 62

Candidate Starts for Cici_55:

(Start: 62 @38327 has 80 MA's), (80, 38237), (81, 38198), (89, 38144), (96, 38114),

Gene: Cindaradix_52 Start: 37956, Stop: 37552, Start Num: 62

Candidate Starts for Cindaradix_52:

(Start: 62 @37956 has 80 MA's), (81, 37827), (88, 37785), (96, 37743),

Gene: Cintron_55 Start: 38345, Stop: 37932, Start Num: 56

Candidate Starts for Cintron_55:

(Start: 56 @38345 has 122 MA's), (83, 38198), (88, 38165), (89, 38153), (96, 38123),

Gene: Citius_56 Start: 38389, Stop: 37976, Start Num: 56

Candidate Starts for Citius_56:

(Start: 56 @38389 has 122 MA's), (83, 38242), (88, 38209), (89, 38197), (96, 38167),

Gene: Clarenza_55 Start: 38365, Stop: 37952, Start Num: 56

Candidate Starts for Clarenza_55:

(Start: 56 @38365 has 122 MA's), (83, 38218), (88, 38185), (89, 38173), (96, 38143),

Gene: CloudWang3_62 Start: 38143, Stop: 37751, Start Num: 64

Candidate Starts for CloudWang3_62:

(45, 38173), (Start: 64 @38143 has 53 MA's), (Start: 78 @38068 has 2 MA's), (89, 37960), (96, 37930), (97, 37888),

Gene: Cocoaberry_56 Start: 38372, Stop: 37959, Start Num: 56

Candidate Starts for Cocoaberry_56:

(Start: 56 @38372 has 122 MA's), (83, 38225), (88, 38192), (89, 38180), (96, 38150),

Gene: Commander_56 Start: 38367, Stop: 37954, Start Num: 56

Candidate Starts for Commander_56:

(Start: 56 @38367 has 122 MA's), (83, 38220), (88, 38187), (89, 38175), (96, 38145),

Gene: ConceptII_58 Start: 41092, Stop: 40682, Start Num: 57

Candidate Starts for ConceptII_58:

(Start: 57 @41092 has 186 MA's), (Start: 78 @41011 has 2 MA's), (93, 40888),

Gene: Connomayer_56 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for Connomayer_56:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Conquerage_60 Start: 39143, Stop: 38760, Start Num: 62

Candidate Starts for Conquerage_60:

(50, 39170), (Start: 62 @39143 has 80 MA's), (86, 38987), (89, 38963), (96, 38933), (97, 38891),

Gene: Conspiracy_54 Start: 38592, Stop: 38182, Start Num: 62

Candidate Starts for Conspiracy_54:

(32, 38673), (Start: 62 @38592 has 80 MA's), (82, 38457), (87, 38430), (88, 38421), (96, 38379),

Gene: Coog_53 Start: 38786, Stop: 38376, Start Num: 62

Candidate Starts for Coog_53:

(Start: 62 @38786 has 80 MA's), (82, 38651), (87, 38624), (88, 38615), (96, 38573),

Gene: Cookiedough_61 Start: 37950, Stop: 37561, Start Num: 64

Candidate Starts for Cookiedough_61:

(Start: 64 @37950 has 53 MA's), (89, 37770), (96, 37740), (97, 37698),

Gene: Corvo_56 Start: 40548, Stop: 40033, Start Num: 57

Candidate Starts for Corvo_56:

(Start: 57 @40548 has 186 MA's), (Start: 78 @40467 has 2 MA's), (81, 40413), (91, 40350), (93, 40344), (96, 40329), (100, 40101), (101, 40083),

Gene: CosmicSans_49 Start: 35506, Stop: 35096, Start Num: 61

Candidate Starts for CosmicSans_49:

(Start: 29 @35602 has 1 MA's), (Start: 61 @35506 has 35 MA's), (Start: 72 @35476 has 1 MA's), (76, 35440), (95, 35296), (96, 35287),

Gene: Crispicious1_53 Start: 38055, Stop: 37540, Start Num: 57

Candidate Starts for Crispicious1_53:

(Start: 57 @38055 has 186 MA's), (Start: 78 @37974 has 2 MA's), (81, 37920), (91, 37857), (93, 37851), (96, 37836), (100, 37608), (101, 37590),

Gene: Crucio_60 Start: 39307, Stop: 38903, Start Num: 51

Candidate Starts for Crucio_60:

(Start: 51 @39307 has 49 MA's), (89, 39112), (96, 39082), (97, 39040),

Gene: Cuco_54 Start: 38646, Stop: 38236, Start Num: 62

Candidate Starts for Cuco_54:

(Start: 62 @38646 has 80 MA's), (82, 38511), (87, 38484), (88, 38475), (96, 38433),

Gene: Cueylyss_57 Start: 40734, Stop: 40219, Start Num: 57

Candidate Starts for Cueylyss_57:

(Start: 57 @40734 has 186 MA's), (Start: 78 @40653 has 2 MA's), (81, 40599), (91, 40536), (93, 40530), (96, 40515), (100, 40287), (101, 40269),

Gene: Cullens_63 Start: 39121, Stop: 38714, Start Num: 60

Candidate Starts for Cullens_63:

(Start: 60 @39121 has 80 MA's), (Start: 67 @39106 has 1 MA's), (Start: 72 @39094 has 1 MA's), (79, 39037), (90, 38932), (96, 38905),

Gene: D29_58 Start: 39118, Stop: 38729, Start Num: 58

Candidate Starts for D29_58:

(Start: 58 @39118 has 44 MA's), (89, 38938), (96, 38908), (97, 38866),

Gene: D32_61 Start: 39118, Stop: 38729, Start Num: 58

Candidate Starts for D32_61:

(Start: 58 @39118 has 44 MA's), (89, 38938), (96, 38908), (97, 38866),

Gene: DBQu4n_62 Start: 39099, Stop: 38710, Start Num: 58

Candidate Starts for DBQu4n_62:

(22, 39243), (27, 39210), (Start: 58 @39099 has 44 MA's), (89, 38919), (96, 38889), (97, 38847),

Gene: DD5_55 Start: 39884, Stop: 39342, Start Num: 57

Candidate Starts for DD5_55:

(Start: 57 @39884 has 186 MA's), (Start: 78 @39803 has 2 MA's), (81, 39749), (91, 39686), (93, 39680), (96, 39665), (100, 39437), (101, 39419),

Gene: Daishi_62 Start: 37990, Stop: 37583, Start Num: 60

Candidate Starts for Daishi_62:

(Start: 60 @37990 has 80 MA's), (Start: 67 @37975 has 1 MA's), (Start: 72 @37963 has 1 MA's), (79, 37906), (90, 37801), (96, 37774),

Gene: Dalmatian_61 Start: 39513, Stop: 39109, Start Num: 51

Candidate Starts for Dalmatian_61:

(Start: 29 @39588 has 1 MA's), (Start: 51 @39513 has 49 MA's), (96, 39288), (97, 39246),

Gene: Danforth_60 Start: 38437, Stop: 38024, Start Num: 59

Candidate Starts for Danforth_60:

(Start: 59 @38437 has 12 MA's), (Start: 72 @38410 has 1 MA's), (87, 38272), (88, 38263),

Gene: Darrell_62 Start: 39765, Stop: 39382, Start Num: 64

Candidate Starts for Darrell_62:

(Start: 42 @39801 has 2 MA's), (Start: 64 @39765 has 53 MA's), (86, 39609), (89, 39585), (96, 39555), (97, 39513),

Gene: Datway_55 Start: 38298, Stop: 37894, Start Num: 62

Candidate Starts for Datway_55:

(Start: 62 @38298 has 80 MA's), (80, 38208), (81, 38169), (89, 38115), (96, 38085),

Gene: Deano_55 Start: 38376, Stop: 37963, Start Num: 56

Candidate Starts for Deano_55:

(Start: 56 @38376 has 122 MA's), (83, 38229), (88, 38196), (89, 38184), (96, 38154),

Gene: DekHockey33_68 Start: 39008, Stop: 38628, Start Num: 68

Candidate Starts for DekHockey33_68:

(Start: 68 @39008 has 18 MA's), (86, 38861), (96, 38804), (97, 38762),

Gene: Deloris_61 Start: 39240, Stop: 38848, Start Num: 58

Candidate Starts for Deloris_61:

(Start: 58 @39240 has 44 MA's), (86, 39081), (89, 39057), (96, 39027), (97, 38985),

Gene: Dennebes_63 Start: 31377, Stop: 30988, Start Num: 52

Candidate Starts for Dennebes_63:

(Start: 52 @31377 has 7 MA's), (77, 31293), (85, 31209), (88, 31185), (93, 31158),

Gene: Dexes_56 Start: 40007, Stop: 39492, Start Num: 57

Candidate Starts for Dexes_56:

(Start: 57 @40007 has 186 MA's), (Start: 78 @39926 has 2 MA's), (81, 39872), (91, 39809), (93, 39803), (96, 39788), (100, 39560), (101, 39542),

Gene: Dhanush_56 Start: 38371, Stop: 37958, Start Num: 56

Candidate Starts for Dhanush_56:

(Start: 56 @38371 has 122 MA's), (83, 38224), (88, 38191), (89, 38179), (96, 38149),

Gene: Dieselweasel_64 Start: 39124, Stop: 38717, Start Num: 60

Candidate Starts for Dieselweasel_64:

(Start: 60 @39124 has 80 MA's), (Start: 67 @39109 has 1 MA's), (Start: 72 @39097 has 1 MA's), (79, 39040), (90, 38935), (96, 38908),

Gene: Dignity_62 Start: 39710, Stop: 39309, Start Num: 51

Candidate Starts for Dignity_62:

(Start: 34 @39755 has 1 MA's), (Start: 51 @39710 has 49 MA's), (89, 39518), (96, 39488), (97, 39446),

Gene: Dinger_48 Start: 35648, Stop: 35238, Start Num: 61

Candidate Starts for Dinger_48:

(Start: 29 @35744 has 1 MA's), (Start: 61 @35648 has 35 MA's), (Start: 72 @35618 has 1 MA's), (76, 35582), (95, 35438), (96, 35429),

Gene: DirtyDunning_55 Start: 38380, Stop: 37967, Start Num: 56

Candidate Starts for DirtyDunning_55:

(Start: 56 @38380 has 122 MA's), (83, 38233), (88, 38200), (89, 38188), (96, 38158),

Gene: Discoknowium_52 Start: 38259, Stop: 37849, Start Num: 62

Candidate Starts for Discoknowium_52:

(Start: 62 @38259 has 80 MA's), (82, 38124), (87, 38097), (88, 38088), (96, 38046),

Gene: Dixon_59 Start: 37957, Stop: 37544, Start Num: 59

Candidate Starts for Dixon_59:

(Start: 59 @37957 has 12 MA's), (Start: 72 @37930 has 1 MA's), (87, 37792), (88, 37783),

Gene: Doom_54 Start: 39416, Stop: 38901, Start Num: 57

Candidate Starts for Doom_54:

(Start: 57 @39416 has 186 MA's), (Start: 78 @39335 has 2 MA's), (81, 39281), (91, 39218), (93, 39212), (96, 39197), (100, 38969), (101, 38951),

Gene: Dorothea_61 Start: 37948, Stop: 37556, Start Num: 64

Candidate Starts for Dorothea_61:

(Start: 64 @37948 has 53 MA's), (Start: 78 @37873 has 2 MA's), (89, 37765), (96, 37735), (97, 37693),

Gene: DrFeelGood_53 Start: 38895, Stop: 38380, Start Num: 57

Candidate Starts for DrFeelGood_53:

(Start: 57 @38895 has 186 MA's), (Start: 78 @38814 has 2 MA's), (81, 38760), (91, 38697), (93, 38691), (96, 38676), (100, 38448), (101, 38430),

Gene: Drake55_62 Start: 39407, Stop: 39003, Start Num: 51

Candidate Starts for Drake55_62:
(Start: 51 @39407 has 49 MA's), (89, 39212), (96, 39182),

Gene: Drake94_55 Start: 37501, Stop: 37082, Start Num: 53
Candidate Starts for Drake94_55:
(Start: 53 @37501 has 21 MA's), (Start: 67 @37474 has 1 MA's), (81, 37357), (96, 37273),

Gene: DreamCatcher_59 Start: 40552, Stop: 40037, Start Num: 57
Candidate Starts for DreamCatcher_59:
(Start: 57 @40552 has 186 MA's), (Start: 78 @40471 has 2 MA's), (81, 40417), (91, 40354), (93, 40348), (96, 40333), (100, 40105), (101, 40087),

Gene: DreamTeam1_58 Start: 38771, Stop: 38382, Start Num: 57
Candidate Starts for DreamTeam1_58:
(Start: 57 @38771 has 186 MA's), (86, 38609), (89, 38585), (96, 38555), (97, 38513),

Gene: Dreamboat_57 Start: 38705, Stop: 38163, Start Num: 57
Candidate Starts for Dreamboat_57:
(Start: 57 @38705 has 186 MA's), (Start: 78 @38624 has 2 MA's), (81, 38570), (91, 38507), (93, 38501), (96, 38486), (100, 38258), (101, 38240),

Gene: DroogsArmy_54 Start: 40276, Stop: 39872, Start Num: 62
Candidate Starts for DroogsArmy_54:
(Start: 59 @40279 has 12 MA's), (Start: 62 @40276 has 80 MA's), (Start: 67 @40264 has 1 MA's), (Start: 72 @40252 has 1 MA's), (81, 40147), (90, 40090), (96, 40063),

Gene: Druantia_56 Start: 38371, Stop: 37958, Start Num: 56
Candidate Starts for Druantia_56:
(Start: 56 @38371 has 122 MA's), (83, 38224), (88, 38191), (89, 38179), (96, 38149),

Gene: Dublin_54 Start: 38761, Stop: 38351, Start Num: 62
Candidate Starts for Dublin_54:
(Start: 62 @38761 has 80 MA's), (82, 38626), (87, 38599), (88, 38590), (96, 38548),

Gene: DudeLittle_59 Start: 39279, Stop: 38875, Start Num: 51
Candidate Starts for DudeLittle_59:
(Start: 29 @39354 has 1 MA's), (Start: 51 @39279 has 49 MA's), (96, 39054), (97, 39012),

Gene: Dulcie_56 Start: 39317, Stop: 38802, Start Num: 57
Candidate Starts for Dulcie_56:
(13, 39569), (18, 39500), (Start: 57 @39317 has 186 MA's), (Start: 78 @39236 has 2 MA's), (81, 39182), (91, 39119), (93, 39113), (96, 39098), (100, 38870), (101, 38852),

Gene: Duplo_62 Start: 39155, Stop: 38766, Start Num: 58
Candidate Starts for Duplo_62:
(22, 39299), (27, 39266), (Start: 58 @39155 has 44 MA's), (89, 38975), (96, 38945), (97, 38903),

Gene: Dynamix_57 Start: 39291, Stop: 38776, Start Num: 57
Candidate Starts for Dynamix_57:
(Start: 57 @39291 has 186 MA's), (Start: 78 @39210 has 2 MA's), (81, 39156), (91, 39093), (93, 39087), (96, 39072), (100, 38844), (101, 38826),

Gene: Eagle_56 Start: 38393, Stop: 37980, Start Num: 56

Candidate Starts for Eagle_56:

(Start: 56 @38393 has 122 MA's), (83, 38246), (88, 38213), (89, 38201), (96, 38171),

Gene: EagleEye_63 Start: 39240, Stop: 38848, Start Num: 60

Candidate Starts for EagleEye_63:

(Start: 60 @39240 has 80 MA's), (Start: 72 @39213 has 1 MA's), (80, 39150), (86, 39081), (89, 39057), (96, 39027), (97, 38985),

Gene: Eaglepride_58 Start: 38447, Stop: 38034, Start Num: 56

Candidate Starts for Eaglepride_58:

(Start: 56 @38447 has 122 MA's), (Start: 72 @38414 has 1 MA's), (81, 38309), (90, 38252), (96, 38225),

Gene: Eapen_56 Start: 38363, Stop: 37950, Start Num: 56

Candidate Starts for Eapen_56:

(Start: 56 @38363 has 122 MA's), (83, 38216), (88, 38183), (89, 38171), (96, 38141),

Gene: Ebony_60 Start: 38448, Stop: 38059, Start Num: 58

Candidate Starts for Ebony_60:

(1, 38877), (4, 38814), (22, 38592), (Start: 58 @38448 has 44 MA's), (96, 38238), (97, 38196),

Gene: Echild_60 Start: 38573, Stop: 38184, Start Num: 62

Candidate Starts for Echild_60:

(Start: 62 @38573 has 80 MA's), (96, 38363), (97, 38321),

Gene: EdogawaKiddo_58 Start: 39138, Stop: 38737, Start Num: 48

Candidate Starts for EdogawaKiddo_58:

(Start: 48 @39138 has 1 MA's), (86, 38964), (89, 38940), (96, 38910), (97, 38868),

Gene: Edtherson_55 Start: 39386, Stop: 38871, Start Num: 57

Candidate Starts for Edtherson_55:

(Start: 57 @39386 has 186 MA's), (Start: 78 @39305 has 2 MA's), (81, 39251), (91, 39188), (93, 39182), (96, 39167), (100, 38939), (101, 38921),

Gene: Eidsmoe_60 Start: 39135, Stop: 38752, Start Num: 62

Candidate Starts for Eidsmoe_60:

(50, 39162), (Start: 62 @39135 has 80 MA's), (86, 38979), (89, 38955), (96, 38925), (97, 38883),

Gene: EITiger69_57 Start: 38718, Stop: 38308, Start Num: 62

Candidate Starts for EITiger69_57:

(Start: 62 @38718 has 80 MA's), (82, 38583), (88, 38547), (96, 38505),

Gene: Elephantoon_59 Start: 38510, Stop: 38124, Start Num: 64

Candidate Starts for Elephantoon_59:

(Start: 64 @38510 has 53 MA's), (80, 38420), (86, 38351), (89, 38327), (96, 38297),

Gene: EmyBug_59 Start: 39137, Stop: 38754, Start Num: 62

Candidate Starts for EmyBug_59:

(50, 39164), (Start: 62 @39137 has 80 MA's), (86, 38981), (89, 38957), (96, 38927), (97, 38885),

Gene: EpicPhail_64 Start: 39125, Stop: 38718, Start Num: 60

Candidate Starts for EpicPhail_64:

(Start: 60 @39125 has 80 MA's), (Start: 67 @39110 has 1 MA's), (Start: 72 @39098 has 1 MA's), (79, 39041), (90, 38936), (96, 38909),

Gene: Epsocamisio_64 Start: 38251, Stop: 37871, Start Num: 68
Candidate Starts for Epsocamisio_64:
(Start: 68 @38251 has 18 MA's), (86, 38104), (96, 38047), (97, 38005),

Gene: EricB_60 Start: 37928, Stop: 37539, Start Num: 64
Candidate Starts for EricB_60:
(Start: 64 @37928 has 53 MA's), (89, 37748), (96, 37718), (97, 37676),

Gene: Erik_49 Start: 35438, Stop: 35028, Start Num: 61
Candidate Starts for Erik_49:
(Start: 29 @35534 has 1 MA's), (Start: 61 @35438 has 35 MA's), (Start: 72 @35408 has 1 MA's), (76, 35372), (95, 35228), (96, 35219),

Gene: Eris_55 Start: 38368, Stop: 37955, Start Num: 56
Candidate Starts for Eris_55:
(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Eros_56 Start: 38370, Stop: 37957, Start Num: 56
Candidate Starts for Eros_56:
(Start: 56 @38370 has 122 MA's), (83, 38223), (88, 38190), (89, 38178), (96, 38148),

Gene: Espica_49 Start: 35448, Stop: 35038, Start Num: 61
Candidate Starts for Espica_49:
(Start: 29 @35544 has 1 MA's), (Start: 61 @35448 has 35 MA's), (Start: 72 @35418 has 1 MA's), (76, 35382), (95, 35238), (96, 35229),

Gene: Espresso_55 Start: 39945, Stop: 39535, Start Num: 57
Candidate Starts for Espresso_55:
(Start: 57 @39945 has 186 MA's), (Start: 78 @39864 has 2 MA's), (93, 39741),

Gene: Euphoria_53 Start: 39193, Stop: 38783, Start Num: 57
Candidate Starts for Euphoria_53:
(Start: 57 @39193 has 186 MA's), (Start: 78 @39112 has 2 MA's), (93, 38989),

Gene: Eurydice_57 Start: 38365, Stop: 37952, Start Num: 56
Candidate Starts for Eurydice_57:
(Start: 56 @38365 has 122 MA's), (83, 38218), (88, 38185), (89, 38173), (96, 38143),

Gene: EvilGenius_62 Start: 40891, Stop: 40487, Start Num: 51
Candidate Starts for EvilGenius_62:
(Start: 51 @40891 has 49 MA's), (89, 40696), (96, 40666), (97, 40624),

Gene: ExplosioNervosa_60 Start: 39203, Stop: 38820, Start Num: 62
Candidate Starts for ExplosioNervosa_60:
(50, 39230), (Start: 62 @39203 has 80 MA's), (86, 39047), (89, 39023), (96, 38993), (97, 38951),

Gene: Eyeball_57 Start: 39481, Stop: 38966, Start Num: 57
Candidate Starts for Eyeball_57:
(Start: 57 @39481 has 186 MA's), (Start: 78 @39400 has 2 MA's), (81, 39346), (91, 39283), (93, 39277), (96, 39262), (100, 39034), (101, 39016),

Gene: Fajezeel_57 Start: 39452, Stop: 38937, Start Num: 57

Candidate Starts for Fajezeel_57:

(Start: 57 @39452 has 186 MA's), (Start: 78 @39371 has 2 MA's), (81, 39317), (91, 39254), (93, 39248), (96, 39233), (100, 39005), (101, 38987),

Gene: Fameo_60 Start: 39638, Stop: 39234, Start Num: 51

Candidate Starts for Fameo_60:

(Start: 29 @39713 has 1 MA's), (Start: 51 @39638 has 49 MA's), (89, 39443), (96, 39413), (97, 39371),

Gene: Farber_63 Start: 39111, Stop: 38704, Start Num: 60

Candidate Starts for Farber_63:

(Start: 60 @39111 has 80 MA's), (Start: 67 @39096 has 1 MA's), (Start: 72 @39084 has 1 MA's), (79, 39027), (90, 38922), (96, 38895),

Gene: Fascinus_52 Start: 39591, Stop: 39175, Start Num: 57

Candidate Starts for Fascinus_52:

(Start: 57 @39591 has 186 MA's), (86, 39426), (93, 39387), (96, 39372),

Gene: Fayely_60 Start: 39104, Stop: 38721, Start Num: 62

Candidate Starts for Fayely_60:

(50, 39131), (Start: 62 @39104 has 80 MA's), (86, 38948), (89, 38924), (96, 38894), (97, 38852),

Gene: Fenn_58 Start: 41237, Stop: 40722, Start Num: 57

Candidate Starts for Fenn_58:

(Start: 57 @41237 has 186 MA's), (Start: 78 @41156 has 2 MA's), (81, 41102), (91, 41039), (93, 41033), (96, 41018), (100, 40790), (101, 40772),

Gene: Fernando_63 Start: 39121, Stop: 38714, Start Num: 60

Candidate Starts for Fernando_63:

(Start: 60 @39121 has 80 MA's), (Start: 67 @39106 has 1 MA's), (Start: 72 @39094 has 1 MA's), (79, 39037), (90, 38932), (96, 38905),

Gene: Fibonacci_60 Start: 38417, Stop: 38028, Start Num: 58

Candidate Starts for Fibonacci_60:

(1, 38846), (4, 38783), (22, 38561), (Start: 58 @38417 has 44 MA's), (96, 38207), (97, 38165),

Gene: FiringLine_60 Start: 39288, Stop: 38884, Start Num: 51

Candidate Starts for FiringLine_60:

(Start: 51 @39288 has 49 MA's), (89, 39093), (96, 39063), (97, 39021),

Gene: First_0062 Start: 39473, Stop: 39081, Start Num: 58

Candidate Starts for First_0062:

(Start: 58 @39473 has 44 MA's), (86, 39314), (89, 39290), (96, 39260), (97, 39218),

Gene: Flare16_60 Start: 38986, Stop: 38582, Start Num: 51

Candidate Starts for Flare16_60:

(38, 39019), (Start: 48 @38992 has 1 MA's), (Start: 51 @38986 has 49 MA's), (89, 38791), (96, 38761),

Gene: Flaverint_61 Start: 38875, Stop: 38486, Start Num: 58

Candidate Starts for Flaverint_61:

(1, 39304), (4, 39241), (22, 39019), (Start: 58 @38875 has 44 MA's), (96, 38665), (97, 38623),

Gene: Florean_56 Start: 38367, Stop: 37954, Start Num: 56

Candidate Starts for Florean_56:

(Start: 56 @38367 has 122 MA's), (83, 38220), (88, 38187), (89, 38175), (96, 38145),

Gene: Flux_56 Start: 38367, Stop: 37954, Start Num: 56

Candidate Starts for Flux_56:

(Start: 56 @38367 has 122 MA's), (83, 38220), (88, 38187), (89, 38175), (96, 38145),

Gene: ForGetIt_54 Start: 38617, Stop: 38207, Start Num: 62

Candidate Starts for ForGetIt_54:

(Start: 62 @38617 has 80 MA's), (82, 38482), (87, 38455), (88, 38446), (96, 38404),

Gene: Forsytheast_55 Start: 38864, Stop: 38349, Start Num: 57

Candidate Starts for Forsytheast_55:

(Start: 57 @38864 has 186 MA's), (Start: 78 @38783 has 2 MA's), (81, 38729), (91, 38666), (93, 38660), (96, 38645), (100, 38417), (101, 38399),

Gene: Francis47_54 Start: 40506, Stop: 39991, Start Num: 57

Candidate Starts for Francis47_54:

(Start: 57 @40506 has 186 MA's), (Start: 78 @40425 has 2 MA's), (81, 40371), (91, 40308), (93, 40302), (96, 40287), (100, 40059), (101, 40041),

Gene: Fred313_58 Start: 38365, Stop: 37958, Start Num: 55

Candidate Starts for Fred313_58:

(Start: 55 @38365 has 24 MA's), (81, 38233), (90, 38176), (96, 38149),

Gene: Funston_55 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for Funston_55:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Gadost_56 Start: 38372, Stop: 37959, Start Num: 56

Candidate Starts for Gadost_56:

(Start: 56 @38372 has 122 MA's), (83, 38225), (88, 38192), (89, 38180), (96, 38150),

Gene: GageAP_56 Start: 39982, Stop: 39572, Start Num: 57

Candidate Starts for GageAP_56:

(Start: 57 @39982 has 186 MA's), (Start: 78 @39901 has 2 MA's), (93, 39778),

Gene: Gandalf20_58 Start: 41230, Stop: 40820, Start Num: 57

Candidate Starts for Gandalf20_58:

(Start: 57 @41230 has 186 MA's), (Start: 78 @41149 has 2 MA's), (93, 41026),

Gene: GaugeLDP_57 Start: 39187, Stop: 38783, Start Num: 51

Candidate Starts for GaugeLDP_57:

(Start: 51 @39187 has 49 MA's), (88, 39004), (96, 38962), (97, 38920),

Gene: Gemma_62 Start: 39003, Stop: 38596, Start Num: 60

Candidate Starts for Gemma_62:

(Start: 60 @39003 has 80 MA's), (Start: 72 @38976 has 1 MA's), (79, 38919), (90, 38814), (96, 38787),

Gene: George_52 Start: 38693, Stop: 38283, Start Num: 62
Candidate Starts for George_52:
(Start: 62 @38693 has 80 MA's), (82, 38558), (87, 38531), (88, 38522), (96, 38480),

Gene: Georgie2_61 Start: 39333, Stop: 38929, Start Num: 51
Candidate Starts for Georgie2_61:
(Start: 51 @39333 has 49 MA's), (89, 39138), (96, 39108), (97, 39066),

Gene: Ghouboy_57 Start: 39496, Stop: 39086, Start Num: 62
Candidate Starts for Ghouboy_57:
(Start: 62 @39496 has 80 MA's), (82, 39361), (87, 39334), (88, 39325), (96, 39283),

Gene: Gilberta_61 Start: 38868, Stop: 38479, Start Num: 58
Candidate Starts for Gilberta_61:
(Start: 58 @38868 has 44 MA's), (96, 38658), (97, 38616),

Gene: GingkoMaracino_63 Start: 39007, Stop: 38600, Start Num: 60
Candidate Starts for GingkoMaracino_63:
(Start: 60 @39007 has 80 MA's), (Start: 67 @38992 has 1 MA's), (Start: 72 @38980 has 1 MA's), (79, 38923), (90, 38818), (96, 38791),

Gene: Gladiator_59 Start: 37644, Stop: 37255, Start Num: 64
Candidate Starts for Gladiator_59:
(Start: 64 @37644 has 53 MA's), (89, 37464), (96, 37434), (97, 37392),

Gene: Gollum_49 Start: 35504, Stop: 35094, Start Num: 61
Candidate Starts for Gollum_49:
(Start: 29 @35600 has 1 MA's), (Start: 61 @35504 has 35 MA's), (Start: 72 @35474 has 1 MA's), (76, 35438), (95, 35294), (96, 35285),

Gene: Gompeii16_54 Start: 40239, Stop: 39724, Start Num: 57
Candidate Starts for Gompeii16_54:
(Start: 57 @40239 has 186 MA's), (Start: 78 @40158 has 2 MA's), (81, 40104), (91, 40041), (93, 40035), (96, 40020), (100, 39792), (101, 39774),

Gene: Goose_57 Start: 38073, Stop: 37660, Start Num: 56
Candidate Starts for Goose_57:
(Start: 56 @38073 has 122 MA's), (81, 37935), (90, 37878), (96, 37851),

Gene: Graduation_59 Start: 40806, Stop: 40291, Start Num: 57
Candidate Starts for Graduation_59:
(Start: 57 @40806 has 186 MA's), (Start: 78 @40725 has 2 MA's), (81, 40671), (91, 40608), (93, 40602), (96, 40587), (100, 40359), (101, 40341),

Gene: GrecoEtereo_56 Start: 39211, Stop: 38696, Start Num: 57
Candidate Starts for GrecoEtereo_56:
(Start: 57 @39211 has 186 MA's), (Start: 78 @39130 has 2 MA's), (81, 39076), (91, 39013), (93, 39007), (96, 38992), (100, 38764), (101, 38746),

Gene: GreedyLawyer_60 Start: 37935, Stop: 37546, Start Num: 64
Candidate Starts for GreedyLawyer_60:
(Start: 64 @37935 has 53 MA's), (89, 37755), (96, 37725), (97, 37683),

Gene: Greg_57 Start: 39452, Stop: 38937, Start Num: 57

Candidate Starts for Greg_57:

(Start: 57 @39452 has 186 MA's), (Start: 78 @39371 has 2 MA's), (81, 39317), (91, 39254), (93, 39248), (96, 39233), (100, 39005), (101, 38987),

Gene: Grif_63 Start: 39196, Stop: 38789, Start Num: 60

Candidate Starts for Grif_63:

(Start: 60 @39196 has 80 MA's), (Start: 67 @39181 has 1 MA's), (Start: 72 @39169 has 1 MA's), (79, 39112), (90, 39007), (96, 38980),

Gene: Groundhog_59 Start: 38352, Stop: 37939, Start Num: 59

Candidate Starts for Groundhog_59:

(Start: 59 @38352 has 12 MA's), (Start: 72 @38325 has 1 MA's), (87, 38187), (88, 38178),

Gene: Groupthink_64 Start: 39007, Stop: 38600, Start Num: 60

Candidate Starts for Groupthink_64:

(Start: 60 @39007 has 80 MA's), (Start: 72 @38980 has 1 MA's), (79, 38923), (90, 38818), (96, 38791),

Gene: Grub_63 Start: 39113, Stop: 38706, Start Num: 60

Candidate Starts for Grub_63:

(Start: 60 @39113 has 80 MA's), (Start: 67 @39098 has 1 MA's), (Start: 72 @39086 has 1 MA's), (79, 39029), (90, 38924), (96, 38897),

Gene: Grum1_63 Start: 39121, Stop: 38714, Start Num: 60

Candidate Starts for Grum1_63:

(Start: 60 @39121 has 80 MA's), (Start: 67 @39106 has 1 MA's), (Start: 72 @39094 has 1 MA's), (79, 39037), (90, 38932), (96, 38905),

Gene: Gruunaga_62 Start: 38343, Stop: 37954, Start Num: 64

Candidate Starts for Gruunaga_62:

(Start: 64 @38343 has 53 MA's), (89, 38163), (96, 38133), (97, 38091),

Gene: GtownJaz_63 Start: 39123, Stop: 38716, Start Num: 60

Candidate Starts for GtownJaz_63:

(Start: 60 @39123 has 80 MA's), (Start: 67 @39108 has 1 MA's), (Start: 72 @39096 has 1 MA's), (79, 39039), (90, 38934), (96, 38907),

Gene: Gwendoluna_59 Start: 41455, Stop: 40940, Start Num: 57

Candidate Starts for Gwendoluna_59:

(13, 41707), (18, 41638), (Start: 57 @41455 has 186 MA's), (Start: 78 @41374 has 2 MA's), (81, 41320), (91, 41257), (93, 41251), (96, 41236), (100, 41008), (101, 40990),

Gene: Gyzlar_52 Start: 37454, Stop: 36939, Start Num: 57

Candidate Starts for Gyzlar_52:

(Start: 57 @37454 has 186 MA's), (Start: 78 @37373 has 2 MA's), (81, 37319), (91, 37256), (93, 37250), (96, 37235), (100, 37007), (101, 36989),

Gene: HINdeR_53 Start: 39941, Stop: 39534, Start Num: 59

Candidate Starts for HINdeR_53:

(Start: 59 @39941 has 12 MA's), (Start: 62 @39938 has 80 MA's), (Start: 72 @39914 has 1 MA's), (81, 39809), (89, 39755), (90, 39752), (96, 39725),

Gene: HamSlice_54 Start: 38366, Stop: 37953, Start Num: 56
Candidate Starts for HamSlice_54:
(Start: 56 @38366 has 122 MA's), (83, 38219), (88, 38186), (89, 38174), (96, 38144),

Gene: Hami1_49 Start: 34289, Stop: 33774, Start Num: 57
Candidate Starts for Hami1_49:
(12, 34559), (Start: 57 @34289 has 186 MA's), (Start: 78 @34208 has 2 MA's), (81, 34154), (91, 34091), (93, 34085), (96, 34070), (100, 33842), (101, 33824),

Gene: Hammer_62 Start: 37950, Stop: 37561, Start Num: 64
Candidate Starts for Hammer_62:
(Start: 64 @37950 has 53 MA's), (89, 37770), (96, 37740), (97, 37698),

Gene: Hanray_58 Start: 39124, Stop: 38741, Start Num: 64
Candidate Starts for Hanray_58:
(Start: 48 @39154 has 1 MA's), (Start: 49 @39151 has 1 MA's), (Start: 64 @39124 has 53 MA's), (86, 38968), (89, 38944), (96, 38914), (97, 38872),

Gene: Happiness_55 Start: 38354, Stop: 37941, Start Num: 56
Candidate Starts for Happiness_55:
(Start: 56 @38354 has 122 MA's), (83, 38207), (89, 38162), (96, 38132),

Gene: Harlequin_48 Start: 35290, Stop: 34880, Start Num: 61
Candidate Starts for Harlequin_48:
(Start: 29 @35386 has 1 MA's), (Start: 61 @35290 has 35 MA's), (Start: 72 @35260 has 1 MA's), (76, 35224), (95, 35080), (96, 35071),

Gene: HarryHoudini_61 Start: 39404, Stop: 39012, Start Num: 60
Candidate Starts for HarryHoudini_61:
(Start: 60 @39404 has 80 MA's), (89, 39221), (96, 39191),

Gene: HarryOW_55 Start: 38709, Stop: 38194, Start Num: 57
Candidate Starts for HarryOW_55:
(Start: 57 @38709 has 186 MA's), (Start: 78 @38628 has 2 MA's), (81, 38574), (91, 38511), (93, 38505), (96, 38490), (100, 38262), (101, 38244),

Gene: HashRod_64 Start: 39149, Stop: 38742, Start Num: 60
Candidate Starts for HashRod_64:
(Start: 60 @39149 has 80 MA's), (Start: 67 @39134 has 1 MA's), (Start: 72 @39122 has 1 MA's), (79, 39065), (90, 38960), (96, 38933),

Gene: HaugeAnator_59 Start: 31216, Stop: 30827, Start Num: 53
Candidate Starts for HaugeAnator_59:
(Start: 53 @31216 has 21 MA's), (Start: 72 @31171 has 1 MA's), (77, 31132), (81, 31066), (85, 31048), (88, 31024), (93, 30997),

Gene: HaveUMetTed_64 Start: 38992, Stop: 38585, Start Num: 60
Candidate Starts for HaveUMetTed_64:
(Start: 60 @38992 has 80 MA's), (Start: 72 @38965 has 1 MA's), (79, 38908), (90, 38803), (96, 38776),

Gene: Heathen_59 Start: 38463, Stop: 38056, Start Num: 55
Candidate Starts for Heathen_59:

(Start: 55 @38463 has 24 MA's), (81, 38331), (90, 38274), (96, 38247),

Gene: Heffalump_59 Start: 40106, Stop: 39702, Start Num: 51

Candidate Starts for Heffalump_59:

(Start: 29 @40181 has 1 MA's), (Start: 51 @40106 has 49 MA's), (89, 39911), (96, 39881), (97, 39839),

Gene: HelDan_59 Start: 38679, Stop: 38272, Start Num: 55

Candidate Starts for HelDan_59:

(Start: 55 @38679 has 24 MA's), (81, 38547), (90, 38490), (96, 38463),

Gene: Heliosoles_62 Start: 39010, Stop: 38603, Start Num: 60

Candidate Starts for Heliosoles_62:

(Start: 60 @39010 has 80 MA's), (Start: 72 @38983 has 1 MA's), (79, 38926), (90, 38821), (96, 38794),

Gene: Herbertwm_58 Start: 39049, Stop: 38666, Start Num: 58

Candidate Starts for Herbertwm_58:

(22, 39193), (26, 39172), (Start: 58 @39049 has 44 MA's), (81, 38923), (86, 38893), (88, 38881), (96, 38839), (97, 38797),

Gene: Hercules11_63 Start: 39130, Stop: 38723, Start Num: 60

Candidate Starts for Hercules11_63:

(Start: 60 @39130 has 80 MA's), (Start: 67 @39115 has 1 MA's), (Start: 72 @39103 has 1 MA's), (79, 39046), (90, 38941), (96, 38914),

Gene: Hermia_56 Start: 39884, Stop: 39369, Start Num: 57

Candidate Starts for Hermia_56:

(Start: 57 @39884 has 186 MA's), (Start: 78 @39803 has 2 MA's), (81, 39749), (91, 39686), (93, 39680), (96, 39665), (100, 39437), (101, 39419),

Gene: HermioneGrange_56 Start: 39356, Stop: 38946, Start Num: 57

Candidate Starts for HermioneGrange_56:

(Start: 57 @39356 has 186 MA's), (Start: 78 @39275 has 2 MA's), (93, 39152),

Gene: Hexamo_62 Start: 38049, Stop: 37660, Start Num: 64

Candidate Starts for Hexamo_62:

(Start: 64 @38049 has 53 MA's), (89, 37869), (96, 37839), (97, 37797),

Gene: Hiro_49 Start: 35766, Stop: 35356, Start Num: 61

Candidate Starts for Hiro_49:

(Start: 29 @35862 has 1 MA's), (Start: 61 @35766 has 35 MA's), (Start: 72 @35736 has 1 MA's), (76, 35700), (95, 35556), (96, 35547),

Gene: Holli_55 Start: 38158, Stop: 37745, Start Num: 56

Candidate Starts for Holli_55:

(Start: 56 @38158 has 122 MA's), (83, 38011), (88, 37978), (89, 37966), (96, 37936),

Gene: Homines_48 Start: 35393, Stop: 34878, Start Num: 57

Candidate Starts for Homines_48:

(Start: 57 @35393 has 186 MA's), (Start: 78 @35312 has 2 MA's), (81, 35258), (91, 35195), (93, 35189), (96, 35174), (100, 34946), (101, 34928),

Gene: Hookmount_58 Start: 38738, Stop: 38331, Start Num: 55
Candidate Starts for Hookmount_58:
(Start: 55 @38738 has 24 MA's), (81, 38606), (90, 38549), (96, 38522),

Gene: Hoot_56 Start: 35786, Stop: 35397, Start Num: 64
Candidate Starts for Hoot_56:
(Start: 64 @35786 has 53 MA's), (89, 35606), (96, 35576), (97, 35534),

Gene: Hope4ever_57 Start: 40116, Stop: 39601, Start Num: 57
Candidate Starts for Hope4ever_57:
(Start: 57 @40116 has 186 MA's), (Start: 78 @40035 has 2 MA's), (81, 39981), (91, 39918), (93, 39912), (96, 39897), (100, 39669), (101, 39651),

Gene: HortumSL17_60 Start: 39071, Stop: 38688, Start Num: 64
Candidate Starts for HortumSL17_60:
(Start: 48 @39101 has 1 MA's), (Start: 64 @39071 has 53 MA's), (86, 38915), (89, 38891), (96, 38861), (97, 38819),

Gene: Houdini22_56 Start: 38372, Stop: 37959, Start Num: 56
Candidate Starts for Houdini22_56:
(Start: 56 @38372 has 122 MA's), (83, 38225), (88, 38192), (89, 38180), (96, 38150),

Gene: HuhtaEnerson15_54 Start: 38693, Stop: 38283, Start Num: 62
Candidate Starts for HuhtaEnerson15_54:
(Start: 62 @38693 has 80 MA's), (82, 38558), (87, 38531), (88, 38522), (96, 38480),

Gene: ICleared_56 Start: 38397, Stop: 37984, Start Num: 56
Candidate Starts for ICleared_56:
(Start: 56 @38397 has 122 MA's), (83, 38250), (88, 38217), (89, 38205), (96, 38175),

Gene: ILeeKay_59 Start: 39980, Stop: 39465, Start Num: 57
Candidate Starts for ILeeKay_59:
(Start: 57 @39980 has 186 MA's), (Start: 78 @39899 has 2 MA's), (81, 39845), (91, 39782), (93, 39776), (96, 39761), (100, 39533), (101, 39515),

Gene: Ibantik_37 Start: 17729, Stop: 17313, Start Num: 49
Candidate Starts for Ibantik_37:
(Start: 49 @17729 has 1 MA's), (91, 17513), (93, 17507), (96, 17492), (99, 17357),

Gene: Iceman_56 Start: 38654, Stop: 38241, Start Num: 56
Candidate Starts for Iceman_56:
(Start: 56 @38654 has 122 MA's), (83, 38507), (88, 38474), (89, 38462), (96, 38432),

Gene: Ichabod_59 Start: 40793, Stop: 40278, Start Num: 57
Candidate Starts for Ichabod_59:
(Start: 57 @40793 has 186 MA's), (Start: 78 @40712 has 2 MA's), (81, 40658), (91, 40595), (93, 40589), (96, 40574), (100, 40346), (101, 40328),

Gene: Idleandcovert_59 Start: 38772, Stop: 38365, Start Num: 55
Candidate Starts for Idleandcovert_59:
(Start: 55 @38772 has 24 MA's), (81, 38640), (90, 38583), (96, 38556),

Gene: IgnatiusPatJac_56 Start: 39445, Stop: 38930, Start Num: 57

Candidate Starts for IgnatiusPatJac_56:

(Start: 57 @39445 has 186 MA's), (74, 39388), (Start: 78 @39364 has 2 MA's), (81, 39310), (91, 39247), (93, 39241), (96, 39226), (100, 38998), (101, 38980),

Gene: Immanuel3_58 Start: 31219, Stop: 30830, Start Num: 53

Candidate Starts for Immanuel3_58:

(Start: 53 @31219 has 21 MA's), (Start: 72 @31174 has 1 MA's), (77, 31135), (81, 31069), (85, 31051), (88, 31027), (93, 31000),

Gene: Indra_65 Start: 38420, Stop: 38031, Start Num: 64

Candidate Starts for Indra_65:

(Start: 64 @38420 has 53 MA's), (89, 38240), (96, 38210), (97, 38168),

Gene: Insomnia_61 Start: 38928, Stop: 38539, Start Num: 58

Candidate Starts for Insomnia_61:

(Start: 58 @38928 has 44 MA's), (96, 38718), (97, 38676),

Gene: Iracema64_57 Start: 38632, Stop: 38219, Start Num: 56

Candidate Starts for Iracema64_57:

(Start: 56 @38632 has 122 MA's), (83, 38485), (88, 38452), (89, 38440), (96, 38410),

Gene: IronMan_59 Start: 40131, Stop: 39727, Start Num: 51

Candidate Starts for IronMan_59:

(Start: 33 @40197 has 1 MA's), (Start: 34 @40179 has 1 MA's), (36, 40173), (38, 40167), (Start: 51 @40131 has 49 MA's), (86, 39960), (88, 39948), (89, 39936), (96, 39906), (97, 39864),

Gene: Isca_58 Start: 38257, Stop: 37841, Start Num: 53

Candidate Starts for Isca_58:

(Start: 53 @38257 has 21 MA's), (81, 38116), (90, 38059), (96, 38032),

Gene: Isiphiwo_59 Start: 37502, Stop: 37113, Start Num: 64

Candidate Starts for Isiphiwo_59:

(Start: 64 @37502 has 53 MA's), (89, 37322), (96, 37292), (97, 37250),

Gene: Iwokeuplikedis_62 Start: 39037, Stop: 38645, Start Num: 58

Candidate Starts for Iwokeuplikedis_62:

(Start: 58 @39037 has 44 MA's), (86, 38878), (89, 38854), (96, 38824), (97, 38782),

Gene: JC27_58 Start: 39896, Stop: 39381, Start Num: 57

Candidate Starts for JC27_58:

(Start: 57 @39896 has 186 MA's), (74, 39839), (Start: 78 @39815 has 2 MA's), (81, 39761), (91, 39698), (93, 39692), (96, 39677), (100, 39449), (101, 39431),

Gene: JF2_57 Start: 36958, Stop: 36542, Start Num: 53

Candidate Starts for JF2_57:

(Start: 53 @36958 has 21 MA's), (81, 36817), (90, 36760), (96, 36733),

Gene: JF4_57 Start: 36958, Stop: 36542, Start Num: 53

Candidate Starts for JF4_57:

(Start: 53 @36958 has 21 MA's), (81, 36817), (90, 36760), (96, 36733),

Gene: JPandJE_59 Start: 31681, Stop: 31292, Start Num: 53

Candidate Starts for JPandJE_59:

(28, 31777), (Start: 53 @31681 has 21 MA's), (Start: 72 @31636 has 1 MA's), (77, 31597), (81, 31531), (85, 31513), (88, 31489), (93, 31462),

Gene: JSwag_66 Start: 38440, Stop: 38060, Start Num: 68

Candidate Starts for JSwag_66:

(Start: 68 @38440 has 18 MA's), (86, 38293), (96, 38236), (97, 38194),

Gene: Jaan_60 Start: 40291, Stop: 39887, Start Num: 51

Candidate Starts for Jaan_60:

(Start: 33 @40357 has 1 MA's), (Start: 34 @40339 has 1 MA's), (36, 40333), (38, 40327), (Start: 51 @40291 has 49 MA's), (86, 40120), (88, 40108), (89, 40096), (96, 40066), (97, 40024),

Gene: Jabiru_56 Start: 38597, Stop: 38187, Start Num: 62

Candidate Starts for Jabiru_56:

(Start: 62 @38597 has 80 MA's), (82, 38462), (87, 38435), (88, 38426), (96, 38384),

Gene: Jabith_61 Start: 38929, Stop: 38540, Start Num: 58

Candidate Starts for Jabith_61:

(1, 39358), (4, 39295), (22, 39073), (Start: 58 @38929 has 44 MA's), (96, 38719), (97, 38677),

Gene: JackSparrow_58 Start: 39879, Stop: 39445, Start Num: 78

Candidate Starts for JackSparrow_58:

(Start: 57 @39960 has 186 MA's), (Start: 78 @39879 has 2 MA's), (81, 39825), (91, 39762), (93, 39756), (96, 39741), (100, 39513), (101, 39495),

Gene: Jasper_57 Start: 38591, Stop: 38049, Start Num: 57

Candidate Starts for Jasper_57:

(Start: 57 @38591 has 186 MA's), (Start: 78 @38510 has 2 MA's), (81, 38456), (91, 38393), (93, 38387), (96, 38372), (100, 38144), (101, 38126),

Gene: Jaykayelowell_54 Start: 38361, Stop: 37948, Start Num: 56

Candidate Starts for Jaykayelowell_54:

(Start: 56 @38361 has 122 MA's), (83, 38214), (88, 38181), (89, 38169), (96, 38139),

Gene: Jeeves_64 Start: 39202, Stop: 38816, Start Num: 63

Candidate Starts for Jeeves_64:

(Start: 63 @39202 has 3 MA's), (86, 39043), (89, 39019), (96, 38989),

Gene: Jeffabunny_62 Start: 38046, Stop: 37657, Start Num: 64

Candidate Starts for Jeffabunny_62:

(Start: 64 @38046 has 53 MA's), (89, 37866), (96, 37836), (97, 37794),

Gene: JenCasNa_64 Start: 39121, Stop: 38714, Start Num: 60

Candidate Starts for JenCasNa_64:

(Start: 60 @39121 has 80 MA's), (Start: 67 @39106 has 1 MA's), (Start: 72 @39094 has 1 MA's), (79, 39037), (90, 38932), (96, 38905),

Gene: JeppNRM_64 Start: 39008, Stop: 38601, Start Num: 60

Candidate Starts for JeppNRM_64:

(Start: 60 @39008 has 80 MA's), (Start: 72 @38981 has 1 MA's), (79, 38924), (90, 38819), (96, 38792),

Gene: Jerm_62 Start: 39702, Stop: 39301, Start Num: 51

Candidate Starts for Jerm_62:

(Start: 34 @39747 has 1 MA's), (Start: 51 @39702 has 49 MA's), (89, 39510), (96, 39480), (97, 39438),

Gene: Jerm2_57 Start: 39611, Stop: 39201, Start Num: 57

Candidate Starts for Jerm2_57:

(Start: 57 @39611 has 186 MA's), (Start: 78 @39530 has 2 MA's), (93, 39407),

Gene: Jester_48 Start: 35221, Stop: 34811, Start Num: 61

Candidate Starts for Jester_48:

(Start: 29 @35317 has 1 MA's), (Start: 61 @35221 has 35 MA's), (Start: 72 @35191 has 1 MA's), (76, 35155), (95, 35011), (96, 35002),

Gene: JetBlade_56 Start: 38362, Stop: 37949, Start Num: 56

Candidate Starts for JetBlade_56:

(Start: 56 @38362 has 122 MA's), (83, 38215), (88, 38182), (89, 38170), (96, 38140),

Gene: JewelBug_62 Start: 38180, Stop: 37752, Start Num: 39

Candidate Starts for JewelBug_62:

(Start: 39 @38180 has 4 MA's), (Start: 58 @38144 has 44 MA's), (89, 37961), (96, 37931), (97, 37889),

Gene: Jobu08_61 Start: 38953, Stop: 38546, Start Num: 60

Candidate Starts for Jobu08_61:

(Start: 60 @38953 has 80 MA's), (Start: 67 @38938 has 1 MA's), (Start: 72 @38926 has 1 MA's), (79, 38869), (90, 38764), (96, 38737),

Gene: JoongJeon_55 Start: 38365, Stop: 37952, Start Num: 56

Candidate Starts for JoongJeon_55:

(Start: 56 @38365 has 122 MA's), (83, 38218), (88, 38185), (89, 38173), (96, 38143),

Gene: Jordennis_60 Start: 37661, Stop: 37233, Start Num: 39

Candidate Starts for Jordennis_60:

(Start: 39 @37661 has 4 MA's), (Start: 58 @37625 has 44 MA's), (Start: 72 @37598 has 1 MA's), (89, 37442), (96, 37412), (97, 37370),

Gene: Jorgensen_56 Start: 39441, Stop: 39031, Start Num: 57

Candidate Starts for Jorgensen_56:

(Start: 57 @39441 has 186 MA's), (Start: 78 @39360 has 2 MA's), (93, 39237),

Gene: Joselito_61 Start: 38877, Stop: 38488, Start Num: 58

Candidate Starts for Joselito_61:

(1, 39306), (4, 39243), (22, 39021), (Start: 58 @38877 has 44 MA's), (96, 38667), (97, 38625),

Gene: JoshKayV_62 Start: 39766, Stop: 39365, Start Num: 51

Candidate Starts for JoshKayV_62:

(Start: 51 @39766 has 49 MA's), (89, 39574), (96, 39544), (97, 39502),

Gene: Journey13_54 Start: 37660, Stop: 37271, Start Num: 62

Candidate Starts for Journey13_54:

(Start: 62 @37660 has 80 MA's), (Start: 72 @37636 has 1 MA's), (86, 37504), (89, 37480), (96, 37450), (97, 37408),

Gene: Jovo_54 Start: 38873, Stop: 38463, Start Num: 62

Candidate Starts for Jovo_54:

(Start: 62 @38873 has 80 MA's), (82, 38738), (87, 38711), (88, 38702), (96, 38660),

Gene: Jsquared_59 Start: 38463, Stop: 38071, Start Num: 60

Candidate Starts for Jsquared_59:

(Start: 60 @38463 has 80 MA's), (86, 38304), (89, 38280), (96, 38250), (97, 38208),

Gene: JuliaChild_57 Start: 39293, Stop: 38883, Start Num: 57

Candidate Starts for JuliaChild_57:

(Start: 57 @39293 has 186 MA's), (74, 39236), (Start: 78 @39212 has 2 MA's), (93, 39089),

Gene: KADY_63 Start: 39149, Stop: 38742, Start Num: 60

Candidate Starts for KADY_63:

(Start: 60 @39149 has 80 MA's), (Start: 67 @39134 has 1 MA's), (Start: 72 @39122 has 1 MA's), (79, 39065), (90, 38960), (96, 38933),

Gene: KBG_56 Start: 41351, Stop: 40941, Start Num: 57

Candidate Starts for KBG_56:

(Start: 57 @41351 has 186 MA's), (Start: 78 @41270 has 2 MA's), (93, 41147),

Gene: KFPoly_55 Start: 38362, Stop: 37949, Start Num: 56

Candidate Starts for KFPoly_55:

(Start: 56 @38362 has 122 MA's), (83, 38215), (88, 38182), (89, 38170), (96, 38140),

Gene: KSSJEB_55 Start: 39071, Stop: 38661, Start Num: 57

Candidate Starts for KSSJEB_55:

(Start: 57 @39071 has 186 MA's), (Start: 78 @38990 has 2 MA's), (93, 38867),

Gene: Kalb97_64 Start: 39006, Stop: 38599, Start Num: 60

Candidate Starts for Kalb97_64:

(Start: 60 @39006 has 80 MA's), (Start: 72 @38979 has 1 MA's), (79, 38922), (90, 38817), (96, 38790),

Gene: Kalnoky_64 Start: 39004, Stop: 38597, Start Num: 60

Candidate Starts for Kalnoky_64:

(Start: 60 @39004 has 80 MA's), (Start: 72 @38977 has 1 MA's), (79, 38920), (90, 38815), (96, 38788),

Gene: Kalpine_58 Start: 39348, Stop: 38926, Start Num: 41

Candidate Starts for Kalpine_58:

(Start: 41 @39348 has 1 MA's), (Start: 58 @39318 has 44 MA's), (89, 39135), (96, 39105), (97, 39063),

Gene: Kamy_55 Start: 38370, Stop: 37957, Start Num: 56

Candidate Starts for Kamy_55:

(Start: 56 @38370 has 122 MA's), (83, 38223), (88, 38190), (89, 38178), (96, 38148),

Gene: Kanely_58 Start: 40091, Stop: 39576, Start Num: 57

Candidate Starts for Kanely_58:

(Start: 57 @40091 has 186 MA's), (Start: 78 @40010 has 2 MA's), (81, 39956), (91, 39893), (93, 39887), (96, 39872), (100, 39644), (101, 39626),

Gene: Katalie136_55 Start: 38312, Stop: 37908, Start Num: 62
Candidate Starts for Katalie136_55:
(Start: 62 @38312 has 80 MA's), (80, 38222), (81, 38183), (89, 38129), (96, 38099),

Gene: KatherineG_67 Start: 38913, Stop: 38533, Start Num: 68
Candidate Starts for KatherineG_67:
(Start: 68 @38913 has 18 MA's), (86, 38766), (96, 38709), (97, 38667),

Gene: Kazan_62 Start: 37941, Stop: 37552, Start Num: 64
Candidate Starts for Kazan_62:
(Start: 64 @37941 has 53 MA's), (89, 37761), (96, 37731), (97, 37689),

Gene: Kenmech_59 Start: 41217, Stop: 40675, Start Num: 57
Candidate Starts for Kenmech_59:
(Start: 57 @41217 has 186 MA's), (Start: 78 @41136 has 2 MA's), (81, 41082), (91, 41019), (93, 41013), (96, 40998), (100, 40770), (101, 40752),

Gene: Kerberos_62 Start: 39117, Stop: 38728, Start Num: 58
Candidate Starts for Kerberos_62:
(22, 39261), (27, 39228), (Start: 58 @39117 has 44 MA's), (89, 38937), (96, 38907), (97, 38865),

Gene: Keziacharles14_60 Start: 40209, Stop: 39829, Start Num: 66
Candidate Starts for Keziacharles14_60:
(Start: 66 @40209 has 1 MA's), (79, 40134), (86, 40056), (96, 40002), (97, 39960),

Gene: Killigrew_56 Start: 40271, Stop: 39861, Start Num: 57
Candidate Starts for Killigrew_56:
(Start: 57 @40271 has 186 MA's), (Start: 78 @40190 has 2 MA's), (93, 40067),

Gene: Kingmustik0402_56 Start: 38357, Stop: 37944, Start Num: 56
Candidate Starts for Kingmustik0402_56:
(Start: 56 @38357 has 122 MA's), (83, 38210), (88, 38177), (89, 38165), (96, 38135),

Gene: Kipper29_61 Start: 37954, Stop: 37565, Start Num: 64
Candidate Starts for Kipper29_61:
(Start: 64 @37954 has 53 MA's), (89, 37774), (96, 37744), (97, 37702),

Gene: KittenMittens_54 Start: 37509, Stop: 37090, Start Num: 53
Candidate Starts for KittenMittens_54:
(Start: 53 @37509 has 21 MA's), (Start: 67 @37482 has 1 MA's), (81, 37365), (96, 37281),

Gene: Koko_63 Start: 38483, Stop: 38091, Start Num: 64
Candidate Starts for Koko_63:
(45, 38513), (Start: 64 @38483 has 53 MA's), (Start: 78 @38408 has 2 MA's), (89, 38300), (96, 38270), (97, 38228),

Gene: Koreni_55 Start: 38049, Stop: 37636, Start Num: 56
Candidate Starts for Koreni_55:
(Start: 56 @38049 has 122 MA's), (83, 37902), (88, 37869), (89, 37857), (96, 37827),

Gene: Kratark_56 Start: 38481, Stop: 38077, Start Num: 62
Candidate Starts for Kratark_56:
(Start: 62 @38481 has 80 MA's), (80, 38391), (81, 38352), (88, 38310), (89, 38298), (96, 38268),

Gene: Kremtemulon_56 Start: 38316, Stop: 37903, Start Num: 56
Candidate Starts for Kremtemulon_56:
(Start: 56 @38316 has 122 MA's), (83, 38169), (88, 38136), (89, 38124), (96, 38094),

Gene: Krishelle_49 Start: 35866, Stop: 35456, Start Num: 61
Candidate Starts for Krishelle_49:
(Start: 29 @35962 has 1 MA's), (Start: 61 @35866 has 35 MA's), (Start: 72 @35836 has 1 MA's), (76, 35800), (95, 35656), (96, 35647),

Gene: Kristoff_56 Start: 38648, Stop: 38235, Start Num: 56
Candidate Starts for Kristoff_56:
(Start: 56 @38648 has 122 MA's), (81, 38510), (90, 38453), (96, 38426),

Gene: Kugel_56 Start: 40339, Stop: 39824, Start Num: 57
Candidate Starts for Kugel_56:
(Start: 57 @40339 has 186 MA's), (Start: 78 @40258 has 2 MA's), (81, 40204), (91, 40141), (93, 40135), (96, 40120), (100, 39892), (101, 39874),

Gene: Kumquat_58 Start: 30795, Stop: 30403, Start Num: 52
Candidate Starts for Kumquat_58:
(Start: 52 @30795 has 7 MA's), (76, 30711), (77, 30708), (85, 30624), (88, 30600), (93, 30573),

Gene: KyMonks1A_58 Start: 39652, Stop: 39137, Start Num: 57
Candidate Starts for KyMonks1A_58:
(Start: 57 @39652 has 186 MA's), (Start: 78 @39571 has 2 MA's), (81, 39517), (91, 39454), (93, 39448), (96, 39433), (100, 39205), (101, 39187),

Gene: Kyee_56 Start: 38366, Stop: 37953, Start Num: 56
Candidate Starts for Kyee_56:
(Start: 56 @38366 has 122 MA's), (83, 38219), (88, 38186), (89, 38174), (96, 38144),

Gene: Kykar_55 Start: 39098, Stop: 38583, Start Num: 57
Candidate Starts for Kykar_55:
(Start: 57 @39098 has 186 MA's), (Start: 78 @39017 has 2 MA's), (81, 38963), (91, 38900), (93, 38894), (96, 38879), (100, 38651), (101, 38633),

Gene: L5_58 Start: 38662, Stop: 38270, Start Num: 62
Candidate Starts for L5_58:
(Start: 62 @38662 has 80 MA's), (86, 38506), (89, 38482), (96, 38452), (97, 38410),

Gene: LBerry_64 Start: 39125, Stop: 38718, Start Num: 60
Candidate Starts for LBerry_64:
(Start: 60 @39125 has 80 MA's), (Start: 67 @39110 has 1 MA's), (Start: 72 @39098 has 1 MA's), (79, 39041), (90, 38936), (96, 38909),

Gene: LHTSCC_58 Start: 38771, Stop: 38358, Start Num: 56
Candidate Starts for LHTSCC_58:
(Start: 56 @38771 has 122 MA's), (83, 38624), (89, 38579), (96, 38549),

Gene: LadyBird_65 Start: 40052, Stop: 39660, Start Num: 58
Candidate Starts for LadyBird_65:
(Start: 58 @40052 has 44 MA's), (86, 39893), (89, 39869), (96, 39839), (97, 39797),

Gene: Lambert1_58 Start: 38737, Stop: 38330, Start Num: 55
Candidate Starts for Lambert1_58:
(Start: 55 @38737 has 24 MA's), (81, 38605), (90, 38548), (96, 38521),

Gene: Lamina13_56 Start: 39126, Stop: 38584, Start Num: 57
Candidate Starts for Lamina13_56:
(12, 39396), (Start: 57 @39126 has 186 MA's), (Start: 78 @39045 has 2 MA's), (81, 38991), (91, 38928), (93, 38922), (96, 38907), (100, 38679), (101, 38661),

Gene: Landor_60 Start: 40209, Stop: 39805, Start Num: 51
Candidate Starts for Landor_60:
(Start: 33 @40275 has 1 MA's), (Start: 34 @40257 has 1 MA's), (36, 40251), (38, 40245), (Start: 51 @40209 has 49 MA's), (86, 40038), (88, 40026), (89, 40014), (96, 39984), (97, 39942),

Gene: LappelDuVide_56 Start: 38367, Stop: 37954, Start Num: 56
Candidate Starts for LappelDuVide_56:
(Start: 56 @38367 has 122 MA's), (83, 38220), (88, 38187), (89, 38175), (96, 38145),

Gene: Larenn_59 Start: 39283, Stop: 38891, Start Num: 58
Candidate Starts for Larenn_59:
(Start: 41 @39313 has 1 MA's), (Start: 58 @39283 has 44 MA's), (89, 39100), (96, 39070), (97, 39028),

Gene: LarryKay_63 Start: 39151, Stop: 38744, Start Num: 60
Candidate Starts for LarryKay_63:
(Start: 60 @39151 has 80 MA's), (Start: 67 @39136 has 1 MA's), (Start: 72 @39124 has 1 MA's), (79, 39067), (90, 38962), (96, 38935),

Gene: LastResort_65 Start: 38492, Stop: 38112, Start Num: 68
Candidate Starts for LastResort_65:
(Start: 68 @38492 has 18 MA's), (86, 38345), (96, 38288), (97, 38246),

Gene: Lemur_56 Start: 38365, Stop: 37952, Start Num: 56
Candidate Starts for Lemur_56:
(Start: 56 @38365 has 122 MA's), (83, 38218), (88, 38185), (89, 38173), (96, 38143),

Gene: Leogania_60 Start: 40082, Stop: 39678, Start Num: 51
Candidate Starts for Leogania_60:
(Start: 34 @40130 has 1 MA's), (Start: 51 @40082 has 49 MA's), (89, 39887), (96, 39857), (97, 39815),

Gene: Lesedi_52 Start: 38076, Stop: 37561, Start Num: 57
Candidate Starts for Lesedi_52:
(Start: 57 @38076 has 186 MA's), (Start: 78 @37995 has 2 MA's), (81, 37941), (91, 37878), (93, 37872), (96, 37857), (100, 37629), (101, 37611),

Gene: Lev2_54 Start: 38505, Stop: 38095, Start Num: 62
Candidate Starts for Lev2_54:
(Start: 62 @38505 has 80 MA's), (82, 38370), (87, 38343), (88, 38334), (96, 38292),

Gene: Leviathan_62 Start: 39759, Stop: 39358, Start Num: 51
Candidate Starts for Leviathan_62:

(Start: 34 @39804 has 1 MA's), (Start: 51 @39759 has 49 MA's), (89, 39567), (96, 39537), (97, 39495),

Gene: Licorice_58 Start: 41440, Stop: 40925, Start Num: 57

Candidate Starts for Licorice_58:

(13, 41692), (23, 41572), (Start: 57 @41440 has 186 MA's), (Start: 78 @41359 has 2 MA's), (81, 41305), (91, 41242), (93, 41236), (96, 41221), (100, 40993), (101, 40975),

Gene: LilBib_56 Start: 40854, Stop: 40312, Start Num: 57

Candidate Starts for LilBib_56:

(Start: 57 @40854 has 186 MA's), (Start: 78 @40773 has 2 MA's), (81, 40719), (91, 40656), (93, 40650), (96, 40635), (100, 40407), (101, 40389),

Gene: LilTurb_61 Start: 39583, Stop: 39182, Start Num: 51

Candidate Starts for LilTurb_61:

(Start: 34 @39628 has 1 MA's), (Start: 51 @39583 has 49 MA's), (89, 39391), (96, 39361), (97, 39319),

Gene: Lilbunny_61 Start: 38050, Stop: 37661, Start Num: 64

Candidate Starts for Lilbunny_61:

(Start: 64 @38050 has 53 MA's), (89, 37870), (96, 37840), (97, 37798),

Gene: Lilith_63 Start: 39114, Stop: 38707, Start Num: 60

Candidate Starts for Lilith_63:

(Start: 60 @39114 has 80 MA's), (Start: 67 @39099 has 1 MA's), (Start: 72 @39087 has 1 MA's), (79, 39030), (90, 38925), (96, 38898),

Gene: Lillie_49 Start: 35506, Stop: 35096, Start Num: 61

Candidate Starts for Lillie_49:

(Start: 29 @35602 has 1 MA's), (Start: 61 @35506 has 35 MA's), (Start: 72 @35476 has 1 MA's), (76, 35440), (95, 35296), (96, 35287),

Gene: LittleB_56 Start: 38369, Stop: 37956, Start Num: 56

Candidate Starts for LittleB_56:

(Start: 56 @38369 has 122 MA's), (83, 38222), (88, 38189), (89, 38177), (96, 38147),

Gene: LittleCherry_54 Start: 38713, Stop: 38303, Start Num: 62

Candidate Starts for LittleCherry_54:

(Start: 62 @38713 has 80 MA's), (82, 38578), (87, 38551), (88, 38542), (96, 38500),

Gene: LittleGuy_56 Start: 38264, Stop: 37851, Start Num: 56

Candidate Starts for LittleGuy_56:

(Start: 56 @38264 has 122 MA's), (83, 38117), (88, 38084), (89, 38072), (96, 38042),

Gene: LochMonster_57 Start: 38604, Stop: 38191, Start Num: 56

Candidate Starts for LochMonster_57:

(Start: 56 @38604 has 122 MA's), (83, 38457), (88, 38424), (89, 38412), (96, 38382),

Gene: Lockley_54 Start: 39046, Stop: 38504, Start Num: 57

Candidate Starts for Lockley_54:

(Start: 57 @39046 has 186 MA's), (Start: 78 @38965 has 2 MA's), (81, 38911), (91, 38848), (93, 38842), (96, 38827), (100, 38599), (101, 38581),

Gene: Lökk_57 Start: 38655, Stop: 38260, Start Num: 58
Candidate Starts for Lökk_57:
(Start: 58 @38655 has 44 MA's), (89, 38469), (96, 38439), (97, 38397),

Gene: LoneWolf_61 Start: 39104, Stop: 38718, Start Num: 63
Candidate Starts for LoneWolf_61:
(31, 39191), (Start: 63 @39104 has 3 MA's), (86, 38945), (88, 38933), (89, 38921), (96, 38891), (97, 38849),

Gene: Looper_66 Start: 38404, Stop: 38024, Start Num: 68
Candidate Starts for Looper_66:
(Start: 68 @38404 has 18 MA's), (86, 38257), (96, 38200), (97, 38158),

Gene: Lopton_56 Start: 41544, Stop: 41134, Start Num: 57
Candidate Starts for Lopton_56:
(Start: 57 @41544 has 186 MA's), (Start: 78 @41463 has 2 MA's), (93, 41340),

Gene: Lorenzo_56 Start: 38368, Stop: 37955, Start Num: 56
Candidate Starts for Lorenzo_56:
(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Loser_62 Start: 39935, Stop: 39540, Start Num: 58
Candidate Starts for Loser_62:
(8, 40253), (14, 40175), (22, 40079), (Start: 58 @39935 has 44 MA's), (Start: 72 @39905 has 1 MA's), (89, 39749), (96, 39719), (97, 39677),

Gene: Louie6_62 Start: 39150, Stop: 38743, Start Num: 60
Candidate Starts for Louie6_62:
(Start: 60 @39150 has 80 MA's), (Start: 67 @39135 has 1 MA's), (Start: 72 @39123 has 1 MA's), (79, 39066), (88, 38976), (90, 38961), (96, 38934),

Gene: Luchador_63 Start: 40785, Stop: 40399, Start Num: 63
Candidate Starts for Luchador_63:
(Start: 63 @40785 has 3 MA's), (81, 40656), (86, 40626), (89, 40602), (96, 40572),

Gene: Lucivia_61 Start: 38926, Stop: 38537, Start Num: 58
Candidate Starts for Lucivia_61:
(Start: 58 @38926 has 44 MA's), (96, 38716), (97, 38674),

Gene: Lucyedi_62 Start: 39436, Stop: 39044, Start Num: 60
Candidate Starts for Lucyedi_62:
(Start: 60 @39436 has 80 MA's), (Start: 72 @39409 has 1 MA's), (80, 39346), (86, 39277), (89, 39253), (96, 39223), (97, 39181),

Gene: LugYA_66 Start: 39122, Stop: 38715, Start Num: 60
Candidate Starts for LugYA_66:
(Start: 60 @39122 has 80 MA's), (Start: 67 @39107 has 1 MA's), (Start: 72 @39095 has 1 MA's), (79, 39038), (90, 38933), (96, 38906),

Gene: Lunsford_57 Start: 38362, Stop: 37949, Start Num: 56
Candidate Starts for Lunsford_57:
(Start: 56 @38362 has 122 MA's), (83, 38215), (88, 38182), (89, 38170), (96, 38140),

Gene: MA5_59 Start: 38158, Stop: 37742, Start Num: 53
Candidate Starts for MA5_59:
(Start: 53 @38158 has 21 MA's), (81, 38017), (90, 37960), (96, 37933),

Gene: MK4_59 Start: 38242, Stop: 37826, Start Num: 53
Candidate Starts for MK4_59:
(Start: 53 @38242 has 21 MA's), (81, 38101), (90, 38044), (96, 38017),

Gene: MPlant7149_54 Start: 38172, Stop: 37657, Start Num: 57
Candidate Starts for MPlant7149_54:
(Start: 57 @38172 has 186 MA's), (Start: 78 @38091 has 2 MA's), (81, 38037), (91, 37974), (93, 37968), (96, 37953), (100, 37725), (101, 37707),

Gene: MadMarie_63 Start: 39123, Stop: 38716, Start Num: 60
Candidate Starts for MadMarie_63:
(Start: 60 @39123 has 80 MA's), (Start: 67 @39108 has 1 MA's), (Start: 72 @39096 has 1 MA's), (79, 39039), (90, 38934), (96, 38907),

Gene: Magnito_54 Start: 39339, Stop: 38824, Start Num: 57
Candidate Starts for Magnito_54:
(Start: 57 @39339 has 186 MA's), (Start: 78 @39258 has 2 MA's), (81, 39204), (91, 39141), (93, 39135), (96, 39120), (100, 38892), (101, 38874),

Gene: Mainiac_63 Start: 39115, Stop: 38708, Start Num: 60
Candidate Starts for Mainiac_63:
(Start: 60 @39115 has 80 MA's), (Start: 67 @39100 has 1 MA's), (Start: 72 @39088 has 1 MA's), (79, 39031), (90, 38926), (96, 38899),

Gene: Makemake_56 Start: 40005, Stop: 39490, Start Num: 57
Candidate Starts for Makemake_56:
(Start: 57 @40005 has 186 MA's), (Start: 78 @39924 has 2 MA's), (81, 39870), (91, 39807), (93, 39801), (96, 39786), (100, 39558), (101, 39540),

Gene: Malec_60 Start: 39850, Stop: 39458, Start Num: 58
Candidate Starts for Malec_60:
(Start: 41 @39880 has 1 MA's), (Start: 58 @39850 has 44 MA's), (89, 39667), (96, 39637), (97, 39595),

Gene: Malinsilva_65 Start: 39113, Stop: 38706, Start Num: 60
Candidate Starts for Malinsilva_65:
(Start: 60 @39113 has 80 MA's), (Start: 67 @39098 has 1 MA's), (Start: 72 @39086 has 1 MA's), (79, 39029), (90, 38924), (96, 38897),

Gene: Maminiaina_59 Start: 39073, Stop: 38687, Start Num: 64
Candidate Starts for Maminiaina_59:
(Start: 64 @39073 has 53 MA's), (86, 38914), (89, 38890), (96, 38860), (97, 38818),

Gene: Manatee_57 Start: 39703, Stop: 39293, Start Num: 57
Candidate Starts for Manatee_57:
(Start: 57 @39703 has 186 MA's), (Start: 78 @39622 has 2 MA's), (93, 39499),

Gene: Manu_63 Start: 39007, Stop: 38600, Start Num: 60
Candidate Starts for Manu_63:

(Start: 60 @39007 has 80 MA's), (Start: 72 @38980 has 1 MA's), (79, 38923), (90, 38818), (96, 38791),

Gene: Manuel_56 Start: 30975, Stop: 30586, Start Num: 53

Candidate Starts for Manuel_56:

(Start: 53 @30975 has 21 MA's), (85, 30807), (88, 30783), (93, 30756),

Gene: MarQuardt_63 Start: 39123, Stop: 38716, Start Num: 60

Candidate Starts for MarQuardt_63:

(Start: 60 @39123 has 80 MA's), (Start: 67 @39108 has 1 MA's), (Start: 72 @39096 has 1 MA's), (79, 39039), (90, 38934), (96, 38907),

Gene: Marcell_53 Start: 38698, Stop: 38183, Start Num: 57

Candidate Starts for Marcell_53:

(Start: 57 @38698 has 186 MA's), (74, 38641), (Start: 78 @38617 has 2 MA's), (81, 38563), (91, 38500), (93, 38494), (96, 38479), (100, 38251), (101, 38233),

Gene: Marchy_50 Start: 36607, Stop: 36092, Start Num: 57

Candidate Starts for Marchy_50:

(12, 36877), (Start: 57 @36607 has 186 MA's), (Start: 78 @36526 has 2 MA's), (81, 36472), (91, 36409), (93, 36403), (96, 36388), (100, 36160), (101, 36142),

Gene: Margo_58 Start: 38763, Stop: 38356, Start Num: 55

Candidate Starts for Margo_58:

(Start: 55 @38763 has 24 MA's), (81, 38631), (90, 38574), (96, 38547),

Gene: Marius_64 Start: 39004, Stop: 38597, Start Num: 60

Candidate Starts for Marius_64:

(Start: 60 @39004 has 80 MA's), (Start: 72 @38977 has 1 MA's), (79, 38920), (90, 38815), (96, 38788),

Gene: Maroc7_54 Start: 39900, Stop: 39484, Start Num: 57

Candidate Starts for Maroc7_54:

(Start: 57 @39900 has 186 MA's), (86, 39735), (93, 39696), (96, 39681),

Gene: Marsha_55 Start: 40128, Stop: 39613, Start Num: 57

Candidate Starts for Marsha_55:

(Start: 57 @40128 has 186 MA's), (Start: 78 @40047 has 2 MA's), (81, 39993), (91, 39930), (93, 39924), (96, 39909), (100, 39681), (101, 39663),

Gene: MaryBeth_55 Start: 39925, Stop: 39410, Start Num: 57

Candidate Starts for MaryBeth_55:

(Start: 57 @39925 has 186 MA's), (Start: 78 @39844 has 2 MA's), (81, 39790), (91, 39727), (93, 39721), (96, 39706), (100, 39478), (101, 39460),

Gene: MarysWell_54 Start: 39004, Stop: 38594, Start Num: 62

Candidate Starts for MarysWell_54:

(Start: 62 @39004 has 80 MA's), (82, 38869), (87, 38842), (88, 38833), (96, 38791),

Gene: Maxo_57 Start: 38370, Stop: 37957, Start Num: 56

Candidate Starts for Maxo_57:

(Start: 56 @38370 has 122 MA's), (83, 38223), (88, 38190), (89, 38178), (96, 38148),

Gene: Mazhar510_56 Start: 38369, Stop: 37956, Start Num: 56
Candidate Starts for Mazhar510_56:
(Start: 56 @38369 has 122 MA's), (83, 38222), (88, 38189), (89, 38177), (96, 38147),

Gene: McFly_61 Start: 37935, Stop: 37546, Start Num: 64
Candidate Starts for McFly_61:
(Start: 64 @37935 has 53 MA's), (89, 37755), (96, 37725), (97, 37683),

Gene: McGuire_57 Start: 39169, Stop: 38654, Start Num: 57
Candidate Starts for McGuire_57:
(Start: 57 @39169 has 186 MA's), (Start: 78 @39088 has 2 MA's), (81, 39034), (91, 38971), (93, 38965), (96, 38950), (100, 38722), (101, 38704),

Gene: Medusa_56 Start: 38367, Stop: 37954, Start Num: 56
Candidate Starts for Medusa_56:
(Start: 56 @38367 has 122 MA's), (83, 38220), (88, 38187), (89, 38175), (96, 38145),

Gene: MeeZee_56 Start: 38365, Stop: 37952, Start Num: 56
Candidate Starts for MeeZee_56:
(Start: 56 @38365 has 122 MA's), (83, 38218), (88, 38185), (89, 38173), (96, 38143),

Gene: Melvin_58 Start: 38363, Stop: 37950, Start Num: 56
Candidate Starts for Melvin_58:
(Start: 56 @38363 has 122 MA's), (83, 38216), (88, 38183), (89, 38171), (96, 38141),

Gene: MetalQZJ_54 Start: 39925, Stop: 39410, Start Num: 57
Candidate Starts for MetalQZJ_54:
(Start: 57 @39925 has 186 MA's), (Start: 78 @39844 has 2 MA's), (81, 39790), (91, 39727), (93, 39721), (96, 39706), (100, 39478), (101, 39460),

Gene: Methuselah_58 Start: 39145, Stop: 38738, Start Num: 60
Candidate Starts for Methuselah_58:
(Start: 60 @39145 has 80 MA's), (Start: 67 @39130 has 1 MA's), (Start: 72 @39118 has 1 MA's), (79, 39061), (90, 38956), (96, 38929),

Gene: Micasa_55 Start: 38878, Stop: 38468, Start Num: 62
Candidate Starts for Micasa_55:
(Start: 62 @38878 has 80 MA's), (82, 38743), (87, 38716), (88, 38707), (96, 38665),

Gene: Michley_55 Start: 39579, Stop: 39163, Start Num: 57
Candidate Starts for Michley_55:
(Start: 57 @39579 has 186 MA's), (86, 39414), (93, 39375), (96, 39360),

Gene: MiculUcigas_60 Start: 38889, Stop: 38485, Start Num: 51
Candidate Starts for MiculUcigas_60:
(38, 38922), (Start: 48 @38895 has 1 MA's), (Start: 51 @38889 has 49 MA's), (89, 38694), (96, 38664),

Gene: Midas2_53 Start: 38786, Stop: 38376, Start Num: 62
Candidate Starts for Midas2_53:
(Start: 62 @38786 has 80 MA's), (82, 38651), (87, 38624), (88, 38615), (96, 38573),

Gene: Milcery_54 Start: 38661, Stop: 38251, Start Num: 62

Candidate Starts for Milcery_54:

(Start: 62 @38661 has 80 MA's), (82, 38526), (87, 38499), (88, 38490), (96, 38448),

Gene: Millski_55 Start: 38369, Stop: 37956, Start Num: 56

Candidate Starts for Millski_55:

(Start: 56 @38369 has 122 MA's), (83, 38222), (88, 38189), (89, 38177), (96, 38147),

Gene: MinecraftSteve_67 Start: 38728, Stop: 38348, Start Num: 68

Candidate Starts for MinecraftSteve_67:

(Start: 68 @38728 has 18 MA's), (86, 38581), (96, 38524), (97, 38482),

Gene: Miramae_54 Start: 37773, Stop: 37369, Start Num: 62

Candidate Starts for Miramae_54:

(Start: 62 @37773 has 80 MA's), (81, 37644), (89, 37590), (96, 37560),

Gene: Misomonster_64 Start: 39148, Stop: 38741, Start Num: 60

Candidate Starts for Misomonster_64:

(Start: 60 @39148 has 80 MA's), (Start: 67 @39133 has 1 MA's), (Start: 72 @39121 has 1 MA's), (79, 39064), (90, 38959), (96, 38932),

Gene: Molly_57 Start: 38590, Stop: 38075, Start Num: 57

Candidate Starts for Molly_57:

(Start: 57 @38590 has 186 MA's), (Start: 78 @38509 has 2 MA's), (81, 38455), (91, 38392), (93, 38386), (96, 38371), (100, 38143), (101, 38125),

Gene: Monet_58 Start: 40345, Stop: 39830, Start Num: 57

Candidate Starts for Monet_58:

(Start: 57 @40345 has 186 MA's), (Start: 78 @40264 has 2 MA's), (81, 40210), (91, 40147), (93, 40141), (96, 40126), (100, 39898), (101, 39880),

Gene: Moose_55 Start: 38864, Stop: 38349, Start Num: 57

Candidate Starts for Moose_55:

(Start: 57 @38864 has 186 MA's), (Start: 78 @38783 has 2 MA's), (81, 38729), (91, 38666), (93, 38660), (96, 38645), (100, 38417), (101, 38399),

Gene: Morpher26_55 Start: 38333, Stop: 37929, Start Num: 62

Candidate Starts for Morpher26_55:

(Start: 62 @38333 has 80 MA's), (80, 38243), (81, 38204), (89, 38150), (96, 38120),

Gene: Morrow_57 Start: 38374, Stop: 37961, Start Num: 56

Candidate Starts for Morrow_57:

(Start: 56 @38374 has 122 MA's), (83, 38227), (88, 38194), (89, 38182), (96, 38152),

Gene: MrGordo_55 Start: 39382, Stop: 38972, Start Num: 57

Candidate Starts for MrGordo_55:

(Start: 57 @39382 has 186 MA's), (Start: 78 @39301 has 2 MA's), (93, 39178),

Gene: MuchMore_66 Start: 39113, Stop: 38706, Start Num: 60

Candidate Starts for MuchMore_66:

(Start: 60 @39113 has 80 MA's), (Start: 67 @39098 has 1 MA's), (Start: 72 @39086 has 1 MA's), (79, 39029), (90, 38924), (96, 38897),

Gene: Mule_53 Start: 37660, Stop: 37115, Start Num: 42

Candidate Starts for Mule_53:

(Start: 42 @37660 has 2 MA's), (Start: 47 @37651 has 1 MA's), (84, 37483), (86, 37465), (91, 37432), (93, 37426), (96, 37411), (100, 37183), (101, 37165),

Gene: Mundrea_55 Start: 38325, Stop: 37921, Start Num: 62

Candidate Starts for Mundrea_55:

(Start: 62 @38325 has 80 MA's), (81, 38196), (96, 38112),

Gene: Museum_57 Start: 39740, Stop: 39330, Start Num: 57

Candidate Starts for Museum_57:

(Start: 57 @39740 has 186 MA's), (Start: 78 @39659 has 2 MA's), (93, 39536),

Gene: MyraDee_54 Start: 35736, Stop: 35332, Start Num: 62

Candidate Starts for MyraDee_54:

(44, 35766), (Start: 62 @35736 has 80 MA's), (71, 35715), (88, 35565), (94, 35535), (96, 35523),

Gene: Myxus_60 Start: 39071, Stop: 38688, Start Num: 64

Candidate Starts for Myxus_60:

(Start: 48 @39101 has 1 MA's), (Start: 64 @39071 has 53 MA's), (86, 38915), (89, 38891), (96, 38861), (97, 38819),

Gene: NEHalo_54 Start: 39528, Stop: 39118, Start Num: 57

Candidate Starts for NEHalo_54:

(Start: 57 @39528 has 186 MA's), (Start: 78 @39447 has 2 MA's), (93, 39324),

Gene: NaSiaTalie_60 Start: 38983, Stop: 38579, Start Num: 51

Candidate Starts for NaSiaTalie_60:

(38, 39016), (Start: 48 @38989 has 1 MA's), (Start: 51 @38983 has 49 MA's), (89, 38788), (96, 38758),

Gene: Naca_55 Start: 39136, Stop: 38726, Start Num: 62

Candidate Starts for Naca_55:

(Start: 62 @39136 has 80 MA's), (82, 39001), (88, 38965), (96, 38923),

Gene: Naiad_48 Start: 35519, Stop: 35109, Start Num: 61

Candidate Starts for Naiad_48:

(Start: 29 @35615 has 1 MA's), (Start: 61 @35519 has 35 MA's), (Start: 72 @35489 has 1 MA's), (76, 35453), (95, 35309), (96, 35300),

Gene: Naira_58 Start: 41284, Stop: 40769, Start Num: 57

Candidate Starts for Naira_58:

(Start: 57 @41284 has 186 MA's), (Start: 78 @41203 has 2 MA's), (81, 41149), (91, 41086), (93, 41080), (96, 41065), (100, 40837), (101, 40819),

Gene: Naji_62 Start: 39118, Stop: 38729, Start Num: 58

Candidate Starts for Naji_62:

(Start: 58 @39118 has 44 MA's), (89, 38938), (96, 38908), (97, 38866),

Gene: Nancinator_49 Start: 35448, Stop: 35038, Start Num: 61

Candidate Starts for Nancinator_49:

(Start: 29 @35544 has 1 MA's), (Start: 61 @35448 has 35 MA's), (Start: 72 @35418 has 1 MA's), (76, 35382), (95, 35238), (96, 35229),

Gene: Natosaleda_48 Start: 35447, Stop: 35037, Start Num: 61
Candidate Starts for Natosaleda_48:
(Start: 29 @35543 has 1 MA's), (Start: 61 @35447 has 35 MA's), (Start: 72 @35417 has 1 MA's), (76, 35381), (95, 35237), (96, 35228),

Gene: NearlyHeadless_60 Start: 38203, Stop: 37790, Start Num: 59
Candidate Starts for NearlyHeadless_60:
(Start: 59 @38203 has 12 MA's), (87, 38038), (88, 38029),

Gene: Nebs_57 Start: 38368, Stop: 37955, Start Num: 56
Candidate Starts for Nebs_57:
(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Nebulosus_65 Start: 38488, Stop: 38108, Start Num: 68
Candidate Starts for Nebulosus_65:
(Start: 68 @38488 has 18 MA's), (86, 38341), (96, 38284), (97, 38242),

Gene: Nedarya_63 Start: 38462, Stop: 38091, Start Num: 69
Candidate Starts for Nedarya_63:
(Start: 69 @38462 has 2 MA's), (Start: 72 @38450 has 1 MA's), (96, 38264), (97, 38222),

Gene: Neeharika16_60 Start: 37395, Stop: 37006, Start Num: 64
Candidate Starts for Neeharika16_60:
(Start: 64 @37395 has 53 MA's), (89, 37215), (96, 37185), (97, 37143),

Gene: Nemo27_56 Start: 38367, Stop: 37954, Start Num: 56
Candidate Starts for Nemo27_56:
(Start: 56 @38367 has 122 MA's), (83, 38220), (88, 38187), (89, 38175), (96, 38145),

Gene: Nerujay_58 Start: 40166, Stop: 39651, Start Num: 57
Candidate Starts for Nerujay_58:
(Start: 57 @40166 has 186 MA's), (Start: 78 @40085 has 2 MA's), (81, 40031), (91, 39968), (93, 39962), (96, 39947), (100, 39719), (101, 39701),

Gene: Newrala_61 Start: 37937, Stop: 37548, Start Num: 64
Candidate Starts for Newrala_61:
(Start: 64 @37937 has 53 MA's), (89, 37757), (96, 37727), (97, 37685),

Gene: Nhonho_55 Start: 40512, Stop: 39997, Start Num: 57
Candidate Starts for Nhonho_55:
(Start: 57 @40512 has 186 MA's), (Start: 78 @40431 has 2 MA's), (81, 40377), (91, 40314), (93, 40308), (96, 40293), (100, 40065), (101, 40047),

Gene: NicoleTera_58 Start: 39278, Stop: 38874, Start Num: 51
Candidate Starts for NicoleTera_58:
(Start: 51 @39278 has 49 MA's), (Start: 72 @39239 has 1 MA's), (89, 39083), (96, 39053), (97, 39011),

Gene: Niza_58 Start: 41168, Stop: 40758, Start Num: 57
Candidate Starts for Niza_58:
(Start: 57 @41168 has 186 MA's), (Start: 78 @41087 has 2 MA's), (93, 40964),

Gene: Noella_58 Start: 38738, Stop: 38331, Start Num: 55

Candidate Starts for Noella_58:

(Start: 55 @38738 has 24 MA's), (81, 38606), (90, 38549), (96, 38522),

Gene: Noelle_56 Start: 38634, Stop: 38230, Start Num: 62

Candidate Starts for Noelle_56:

(Start: 62 @38634 has 80 MA's), (80, 38544), (81, 38505), (89, 38451), (96, 38421),

Gene: NorthStar_55 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for NorthStar_55:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Norz_57 Start: 40837, Stop: 40322, Start Num: 57

Candidate Starts for Norz_57:

(17, 41035), (19, 41023), (Start: 57 @40837 has 186 MA's), (Start: 78 @40756 has 2 MA's), (81, 40702), (91, 40639), (93, 40633), (96, 40618), (100, 40390), (101, 40372),

Gene: NotAPhaseMom_56 Start: 38372, Stop: 37959, Start Num: 56

Candidate Starts for NotAPhaseMom_56:

(Start: 56 @38372 has 122 MA's), (83, 38225), (88, 38192), (89, 38180), (96, 38150),

Gene: NothingSpecial_58 Start: 39659, Stop: 39267, Start Num: 60

Candidate Starts for NothingSpecial_58:

(Start: 60 @39659 has 80 MA's), (89, 39476), (96, 39446), (97, 39404),

Gene: Nyxis_56 Start: 38258, Stop: 37845, Start Num: 56

Candidate Starts for Nyxis_56:

(Start: 56 @38258 has 122 MA's), (83, 38111), (88, 38078), (89, 38066), (96, 38036),

Gene: OKCentral2016_56 Start: 37976, Stop: 37563, Start Num: 56

Candidate Starts for OKCentral2016_56:

(Start: 56 @37976 has 122 MA's), (81, 37838), (90, 37781), (96, 37754),

Gene: OKaNui_56 Start: 38418, Stop: 38005, Start Num: 56

Candidate Starts for OKaNui_56:

(Start: 56 @38418 has 122 MA's), (83, 38271), (88, 38238), (89, 38226), (96, 38196),

Gene: Obama12_57 Start: 38755, Stop: 38342, Start Num: 56

Candidate Starts for Obama12_57:

(Start: 56 @38755 has 122 MA's), (83, 38608), (89, 38563), (96, 38533),

Gene: Odin_58 Start: 38180, Stop: 37788, Start Num: 60

Candidate Starts for Odin_58:

(Start: 60 @38180 has 80 MA's), (89, 37997), (96, 37967), (97, 37925),

Gene: Ohfah_57 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for Ohfah_57:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Ohno789_57 Start: 40106, Stop: 39696, Start Num: 57

Candidate Starts for Ohno789_57:

(Start: 57 @40106 has 186 MA's), (Start: 78 @40025 has 2 MA's), (93, 39902),

Gene: OlanP_62 Start: 39180, Stop: 38773, Start Num: 60

Candidate Starts for OlanP_62:

(Start: 60 @39180 has 80 MA's), (Start: 72 @39153 has 1 MA's), (79, 39096), (90, 38991), (96, 38964),

Gene: Olicious_59 Start: 31216, Stop: 30827, Start Num: 53

Candidate Starts for Olicious_59:

(Start: 53 @31216 has 21 MA's), (Start: 72 @31171 has 1 MA's), (77, 31132), (81, 31066), (85, 31048), (88, 31024), (93, 30997),

Gene: Ollie_63 Start: 38992, Stop: 38585, Start Num: 60

Candidate Starts for Ollie_63:

(Start: 60 @38992 has 80 MA's), (Start: 67 @38977 has 1 MA's), (Start: 72 @38965 has 1 MA's), (79, 38908), (90, 38803), (96, 38776),

Gene: Onglai_58 Start: 37412, Stop: 37029, Start Num: 64

Candidate Starts for Onglai_58:

(Start: 48 @37442 has 1 MA's), (Start: 49 @37439 has 1 MA's), (Start: 64 @37412 has 53 MA's), (86, 37256), (89, 37232), (96, 37202), (97, 37160),

Gene: Oogway_55 Start: 39522, Stop: 39007, Start Num: 57

Candidate Starts for Oogway_55:

(Start: 57 @39522 has 186 MA's), (Start: 78 @39441 has 2 MA's), (81, 39387), (91, 39324), (93, 39318), (96, 39303), (100, 39075), (101, 39057),

Gene: P28Green_64 Start: 39124, Stop: 38717, Start Num: 60

Candidate Starts for P28Green_64:

(Start: 60 @39124 has 80 MA's), (Start: 67 @39109 has 1 MA's), (Start: 72 @39097 has 1 MA's), (79, 39040), (90, 38935), (96, 38908),

Gene: PGHhamlin_65 Start: 39113, Stop: 38706, Start Num: 60

Candidate Starts for PGHhamlin_65:

(Start: 60 @39113 has 80 MA's), (Start: 67 @39098 has 1 MA's), (Start: 72 @39086 has 1 MA's), (79, 39029), (90, 38924), (96, 38897),

Gene: PP_59 Start: 42631, Stop: 42227, Start Num: 62

Candidate Starts for PP_59:

(Start: 62 @42631 has 80 MA's), (Start: 72 @42607 has 1 MA's), (81, 42502), (90, 42445), (91, 42439), (96, 42418),

Gene: PSullivan_56 Start: 38477, Stop: 38067, Start Num: 57

Candidate Starts for PSullivan_56:

(Start: 57 @38477 has 186 MA's), (74, 38420), (Start: 78 @38396 has 2 MA's), (93, 38273),

Gene: PacerPaul_55 Start: 39873, Stop: 39358, Start Num: 57

Candidate Starts for PacerPaul_55:

(Start: 57 @39873 has 186 MA's), (Start: 78 @39792 has 2 MA's), (81, 39738), (91, 39675), (93, 39669), (96, 39654), (100, 39426), (101, 39408),

Gene: PackMan_59 Start: 39071, Stop: 38688, Start Num: 64

Candidate Starts for PackMan_59:

(Start: 64 @39071 has 53 MA's), (86, 38915), (88, 38903), (89, 38891), (96, 38861), (97, 38819),

Gene: PainterBoy_62 Start: 39395, Stop: 39003, Start Num: 60

Candidate Starts for PainterBoy_62:

(Start: 60 @39395 has 80 MA's), (Start: 72 @39368 has 1 MA's), (80, 39305), (86, 39236), (89, 39212), (96, 39182), (97, 39140),

Gene: Palestino_55 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for Palestino_55:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Panamaxus_56 Start: 38737, Stop: 38330, Start Num: 55

Candidate Starts for Panamaxus_56:

(Start: 55 @38737 has 24 MA's), (81, 38605), (90, 38548), (96, 38521),

Gene: Papez_58 Start: 41467, Stop: 40952, Start Num: 57

Candidate Starts for Papez_58:

(Start: 57 @41467 has 186 MA's), (Start: 78 @41386 has 2 MA's), (81, 41332), (91, 41269), (93, 41263), (96, 41248), (100, 41020), (101, 41002),

Gene: Paphu_54 Start: 38877, Stop: 38362, Start Num: 57

Candidate Starts for Paphu_54:

(12, 39147), (Start: 57 @38877 has 186 MA's), (Start: 78 @38796 has 2 MA's), (81, 38742), (91, 38679), (93, 38673), (96, 38658), (100, 38430), (101, 38412),

Gene: Paraselene_53 Start: 39982, Stop: 39467, Start Num: 57

Candidate Starts for Paraselene_53:

(Start: 57 @39982 has 186 MA's), (Start: 78 @39901 has 2 MA's), (81, 39847), (91, 39784), (93, 39778), (96, 39763), (100, 39535), (101, 39517),

Gene: Pari_58 Start: 39301, Stop: 38786, Start Num: 57

Candidate Starts for Pari_58:

(Start: 57 @39301 has 186 MA's), (Start: 78 @39220 has 2 MA's), (81, 39166), (91, 39103), (93, 39097), (96, 39082), (100, 38854), (101, 38836),

Gene: Parliament_55 Start: 39602, Stop: 39087, Start Num: 57

Candidate Starts for Parliament_55:

(12, 39872), (15, 39836), (Start: 57 @39602 has 186 MA's), (Start: 78 @39521 has 2 MA's), (81, 39467), (91, 39404), (93, 39398), (96, 39383), (100, 39155), (101, 39137),

Gene: Partridge_48 Start: 35804, Stop: 35394, Start Num: 61

Candidate Starts for Partridge_48:

(Start: 29 @35900 has 1 MA's), (Start: 61 @35804 has 35 MA's), (Start: 72 @35774 has 1 MA's), (76, 35738), (95, 35594), (96, 35585),

Gene: PascalRango_56 Start: 39820, Stop: 39305, Start Num: 57

Candidate Starts for PascalRango_56:

(Start: 57 @39820 has 186 MA's), (Start: 78 @39739 has 2 MA's), (81, 39685), (91, 39622), (93, 39616), (96, 39601), (100, 39373), (101, 39355),

Gene: PattyP_56 Start: 39934, Stop: 39524, Start Num: 57

Candidate Starts for PattyP_56:

(Start: 57 @39934 has 186 MA's), (Start: 78 @39853 has 2 MA's), (93, 39730),

Gene: Payneful_55 Start: 39324, Stop: 38809, Start Num: 57

Candidate Starts for Payneful_55:

(12, 39594), (Start: 57 @39324 has 186 MA's), (Start: 78 @39243 has 2 MA's), (81, 39189), (91, 39126), (93, 39120), (96, 39105), (100, 38877), (101, 38859),

Gene: PeaceMeal1_55 Start: 37510, Stop: 37091, Start Num: 53

Candidate Starts for PeaceMeal1_55:

(Start: 53 @37510 has 21 MA's), (Start: 67 @37483 has 1 MA's), (81, 37366), (96, 37282),

Gene: Peaches_55 Start: 38367, Stop: 37954, Start Num: 56

Candidate Starts for Peaches_55:

(Start: 56 @38367 has 122 MA's), (83, 38220), (88, 38187), (89, 38175), (96, 38145),

Gene: Pelly_56 Start: 39604, Stop: 39089, Start Num: 57

Candidate Starts for Pelly_56:

(13, 39856), (18, 39787), (Start: 57 @39604 has 186 MA's), (Start: 78 @39523 has 2 MA's), (81, 39469), (91, 39406), (93, 39400), (96, 39385), (100, 39157), (101, 39139),

Gene: Pembroke_63 Start: 39122, Stop: 38715, Start Num: 60

Candidate Starts for Pembroke_63:

(Start: 60 @39122 has 80 MA's), (Start: 67 @39107 has 1 MA's), (Start: 72 @39095 has 1 MA's), (79, 39038), (90, 38933), (96, 38906),

Gene: Penny1_64 Start: 39125, Stop: 38718, Start Num: 60

Candidate Starts for Penny1_64:

(Start: 60 @39125 has 80 MA's), (Start: 67 @39110 has 1 MA's), (Start: 72 @39098 has 1 MA's), (79, 39041), (90, 38936), (96, 38909),

Gene: Pepe_52 Start: 38093, Stop: 37551, Start Num: 57

Candidate Starts for Pepe_52:

(11, 38363), (14, 38327), (Start: 57 @38093 has 186 MA's), (Start: 78 @38012 has 2 MA's), (81, 37958), (91, 37895), (93, 37889), (96, 37874), (100, 37646), (101, 37628),

Gene: Percastrophe_59 Start: 31150, Stop: 30761, Start Num: 53

Candidate Starts for Percastrophe_59:

(Start: 53 @31150 has 21 MA's), (Start: 72 @31105 has 1 MA's), (77, 31066), (81, 31000), (85, 30982), (88, 30958), (93, 30931),

Gene: Perplexer_55 Start: 38309, Stop: 37905, Start Num: 62

Candidate Starts for Perplexer_55:

(Start: 62 @38309 has 80 MA's), (80, 38219), (81, 38180), (89, 38126), (96, 38096),

Gene: Perseus_56 Start: 40525, Stop: 40010, Start Num: 57

Candidate Starts for Perseus_56:

(Start: 57 @40525 has 186 MA's), (Start: 78 @40444 has 2 MA's), (81, 40390), (91, 40327), (93, 40321), (96, 40306), (100, 40078), (101, 40060),

Gene: PeterPeter_56 Start: 38365, Stop: 37952, Start Num: 56

Candidate Starts for PeterPeter_56:

(Start: 56 @38365 has 122 MA's), (83, 38218), (88, 38185), (89, 38173), (96, 38143),

Gene: PetiteSangsue_55 Start: 38312, Stop: 37908, Start Num: 62

Candidate Starts for PetiteSangsue_55:

(Start: 62 @38312 has 80 MA's), (80, 38222), (81, 38183), (89, 38129), (96, 38099),

Gene: Petruccio_55 Start: 38969, Stop: 38454, Start Num: 57

Candidate Starts for Petruccio_55:

(Start: 57 @38969 has 186 MA's), (Start: 78 @38888 has 2 MA's), (81, 38834), (91, 38771), (93, 38765), (96, 38750), (100, 38522), (101, 38504),

Gene: PetterN_59 Start: 38751, Stop: 38341, Start Num: 62

Candidate Starts for PetterN_59:

(Start: 62 @38751 has 80 MA's), (82, 38616), (88, 38580), (96, 38538),

Gene: Ph8s_61 Start: 38534, Stop: 38145, Start Num: 56

Candidate Starts for Ph8s_61:

(Start: 56 @38534 has 122 MA's), (89, 38354), (96, 38324), (97, 38282),

Gene: Phacado_56 Start: 38367, Stop: 37954, Start Num: 56

Candidate Starts for Phacado_56:

(Start: 56 @38367 has 122 MA's), (83, 38220), (88, 38187), (89, 38175), (96, 38145),

Gene: Phaded_60 Start: 40254, Stop: 39784, Start Num: 33

Candidate Starts for Phaded_60:

(Start: 33 @40254 has 1 MA's), (Start: 34 @40236 has 1 MA's), (36, 40230), (38, 40224), (Start: 51 @40188 has 49 MA's), (86, 40017), (88, 40005), (89, 39993), (96, 39963), (97, 39921),

Gene: Phaeder_60 Start: 39071, Stop: 38688, Start Num: 64

Candidate Starts for Phaeder_60:

(Start: 64 @39071 has 53 MA's), (86, 38915), (88, 38903), (89, 38891), (96, 38861), (97, 38819),

Gene: PhailMary_48 Start: 35828, Stop: 35418, Start Num: 61

Candidate Starts for PhailMary_48:

(Start: 29 @35924 has 1 MA's), (Start: 61 @35828 has 35 MA's), (Start: 72 @35798 has 1 MA's), (76, 35762), (95, 35618), (96, 35609),

Gene: Phantastic_60 Start: 38419, Stop: 38003, Start Num: 53

Candidate Starts for Phantastic_60:

(Start: 53 @38419 has 21 MA's), (81, 38278), (90, 38221), (96, 38194),

Gene: Pharaoh_55 Start: 39123, Stop: 38731, Start Num: 62

Candidate Starts for Pharaoh_55:

(Start: 62 @39123 has 80 MA's), (86, 38964), (96, 38907), (97, 38865),

Gene: Phelipe_57 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for Phelipe_57:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: PherrisBueller_55 Start: 38242, Stop: 37700, Start Num: 57

Candidate Starts for PherrisBueller_55:

(Start: 57 @38242 has 186 MA's), (Start: 78 @38161 has 2 MA's), (81, 38107), (91, 38044), (93, 38038), (96, 38023), (100, 37795), (101, 37777),

Gene: Phighter1804_56 Start: 38429, Stop: 38016, Start Num: 56

Candidate Starts for Phighter1804_56:

(Start: 56 @38429 has 122 MA's), (83, 38282), (88, 38249), (89, 38237), (96, 38207),

Gene: Phillis_58 Start: 37828, Stop: 37415, Start Num: 59

Candidate Starts for Phillis_58:
(37, 37882), (Start: 59 @37828 has 12 MA's), (88, 37654),

Gene: PhishRPhriends_61 Start: 38188, Stop: 37781, Start Num: 60
Candidate Starts for PhishRPhriends_61:
(Start: 60 @38188 has 80 MA's), (Start: 72 @38161 has 1 MA's), (79, 38104), (90, 37999), (96, 37972),

Gene: Phlei_50 Start: 38992, Stop: 38603, Start Num: 62
Candidate Starts for Phlei_50:
(Start: 62 @38992 has 80 MA's), (86, 38836), (96, 38782), (97, 38740),

Gene: Phlorence_52 Start: 38250, Stop: 37840, Start Num: 62
Candidate Starts for Phlorence_52:
(Start: 62 @38250 has 80 MA's), (82, 38115), (87, 38088), (88, 38079), (96, 38037),

Gene: Phoebe_64 Start: 39114, Stop: 38707, Start Num: 60
Candidate Starts for Phoebe_64:
(Start: 60 @39114 has 80 MA's), (Start: 67 @39099 has 1 MA's), (Start: 72 @39087 has 1 MA's), (79, 39030), (90, 38925), (96, 38898),

Gene: Phonnegut_60 Start: 39168, Stop: 38785, Start Num: 64
Candidate Starts for Phonnegut_60:
(Start: 48 @39198 has 1 MA's), (Start: 64 @39168 has 53 MA's), (86, 39012), (89, 38988), (96, 38958), (97, 38916),

Gene: Phontbonne_56 Start: 38259, Stop: 37846, Start Num: 56
Candidate Starts for Phontbonne_56:
(Start: 56 @38259 has 122 MA's), (83, 38112), (88, 38079), (89, 38067), (96, 38037),

Gene: Phoxy_63 Start: 39146, Stop: 38739, Start Num: 60
Candidate Starts for Phoxy_63:
(Start: 60 @39146 has 80 MA's), (Start: 67 @39131 has 1 MA's), (Start: 72 @39119 has 1 MA's), (79, 39062), (88, 38972), (90, 38957), (96, 38930),

Gene: Phrankenstein_49 Start: 35452, Stop: 35042, Start Num: 61
Candidate Starts for Phrankenstein_49:
(Start: 29 @35548 has 1 MA's), (Start: 61 @35452 has 35 MA's), (Start: 72 @35422 has 1 MA's), (76, 35386), (95, 35242), (96, 35233),

Gene: Phranny_64 Start: 38993, Stop: 38586, Start Num: 60
Candidate Starts for Phranny_64:
(Start: 60 @38993 has 80 MA's), (Start: 72 @38966 has 1 MA's), (79, 38909), (90, 38804), (96, 38777),

Gene: PickleBack_54 Start: 38497, Stop: 38087, Start Num: 62
Candidate Starts for PickleBack_54:
(Start: 62 @38497 has 80 MA's), (82, 38362), (87, 38335), (88, 38326), (96, 38284),

Gene: PinkPlastic_56 Start: 39204, Stop: 38689, Start Num: 57
Candidate Starts for PinkPlastic_56:
(Start: 57 @39204 has 186 MA's), (Start: 78 @39123 has 2 MA's), (81, 39069), (91, 39006), (93, 39000), (96, 38985), (100, 38757), (101, 38739),

Gene: Pinto_56 Start: 39808, Stop: 39293, Start Num: 57

Candidate Starts for Pinto_56:

(Start: 57 @39808 has 186 MA's), (Start: 78 @39727 has 2 MA's), (81, 39673), (91, 39610), (93, 39604), (96, 39589), (100, 39361), (101, 39343),

Gene: Pioneer_60 Start: 39168, Stop: 38785, Start Num: 64

Candidate Starts for Pioneer_60:

(Start: 48 @39198 has 1 MA's), (Start: 64 @39168 has 53 MA's), (86, 39012), (89, 38988), (96, 38958), (97, 38916),

Gene: Pipcraft_54 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for Pipcraft_54:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Pippin_57 Start: 39496, Stop: 38981, Start Num: 57

Candidate Starts for Pippin_57:

(Start: 57 @39496 has 186 MA's), (Start: 78 @39415 has 2 MA's), (81, 39361), (91, 39298), (93, 39292), (96, 39277), (100, 39049), (101, 39031),

Gene: Piro94_60 Start: 39333, Stop: 38929, Start Num: 51

Candidate Starts for Piro94_60:

(Start: 51 @39333 has 49 MA's), (84, 39180), (89, 39138), (96, 39108),

Gene: Pistachio_60 Start: 38319, Stop: 37912, Start Num: 55

Candidate Starts for Pistachio_60:

(Start: 55 @38319 has 24 MA's), (81, 38187), (90, 38130), (96, 38103),

Gene: Pita2_59 Start: 39974, Stop: 39564, Start Num: 57

Candidate Starts for Pita2_59:

(Start: 57 @39974 has 186 MA's), (74, 39917), (Start: 78 @39893 has 2 MA's), (93, 39770),

Gene: Pmask_60 Start: 37938, Stop: 37549, Start Num: 64

Candidate Starts for Pmask_60:

(Start: 64 @37938 has 53 MA's), (89, 37758), (96, 37728), (97, 37686),

Gene: Pocahontas_58 Start: 38734, Stop: 38327, Start Num: 55

Candidate Starts for Pocahontas_58:

(Start: 55 @38734 has 24 MA's), (81, 38602), (90, 38545), (96, 38518),

Gene: Polymorphads_57 Start: 38361, Stop: 37948, Start Num: 56

Candidate Starts for Polymorphads_57:

(Start: 56 @38361 has 122 MA's), (83, 38214), (88, 38181), (89, 38169), (96, 38139),

Gene: Pomar16_99 Start: 39158, Stop: 38769, Start Num: 58

Candidate Starts for Pomar16_99:

(22, 39302), (27, 39269), (Start: 58 @39158 has 44 MA's), (89, 38978), (96, 38948), (97, 38906),

Gene: Ponzi_30 Start: 17377, Stop: 17021, Start Num: 72

Candidate Starts for Ponzi_30:

(Start: 49 @17425 has 1 MA's), (Start: 72 @17377 has 1 MA's), (75, 17350), (81, 17281), (93, 17212),

Gene: Poompha_55 Start: 37481, Stop: 37089, Start Num: 67

Candidate Starts for Poompha_55:

(Start: 53 @37508 has 21 MA's), (Start: 67 @37481 has 1 MA's), (81, 37364), (96, 37280),

Gene: Popcicle_58 Start: 38734, Stop: 38327, Start Num: 55

Candidate Starts for Popcicle_58:

(Start: 55 @38734 has 24 MA's), (81, 38602), (90, 38545), (96, 38518),

Gene: Power_59 Start: 39341, Stop: 38937, Start Num: 51

Candidate Starts for Power_59:

(Start: 51 @39341 has 49 MA's), (89, 39146), (96, 39116), (97, 39074),

Gene: Priamo_63 Start: 37727, Stop: 37299, Start Num: 39

Candidate Starts for Priamo_63:

(Start: 39 @37727 has 4 MA's), (Start: 58 @37691 has 44 MA's), (89, 37508), (96, 37478), (97, 37436),

Gene: Priya_60 Start: 39138, Stop: 38755, Start Num: 62

Candidate Starts for Priya_60:

(50, 39165), (Start: 62 @39138 has 80 MA's), (86, 38982), (89, 38958), (96, 38928), (97, 38886),

Gene: Pukovnik_58 Start: 39837, Stop: 39436, Start Num: 51

Candidate Starts for Pukovnik_58:

(Start: 34 @39885 has 1 MA's), (Start: 51 @39837 has 49 MA's), (86, 39669), (88, 39657), (89, 39645), (96, 39615), (97, 39573),

Gene: Pumbaa_56 Start: 38313, Stop: 37900, Start Num: 56

Candidate Starts for Pumbaa_56:

(Start: 56 @38313 has 122 MA's), (83, 38166), (88, 38133), (89, 38121), (96, 38091),

Gene: Puppy_60 Start: 38391, Stop: 37984, Start Num: 55

Candidate Starts for Puppy_60:

(Start: 55 @38391 has 24 MA's), (81, 38259), (90, 38202), (96, 38175),

Gene: PurpleHaze_63 Start: 39006, Stop: 38599, Start Num: 60

Candidate Starts for PurpleHaze_63:

(Start: 60 @39006 has 80 MA's), (Start: 72 @38979 has 1 MA's), (79, 38922), (90, 38817), (96, 38790),

Gene: QTRlifeCrisis_55 Start: 39872, Stop: 39357, Start Num: 57

Candidate Starts for QTRlifeCrisis_55:

(Start: 57 @39872 has 186 MA's), (Start: 78 @39791 has 2 MA's), (81, 39737), (91, 39674), (93, 39668), (96, 39653), (100, 39425), (101, 39407),

Gene: Qobbit_60 Start: 39100, Stop: 38717, Start Num: 62

Candidate Starts for Qobbit_60:

(50, 39127), (Start: 62 @39100 has 80 MA's), (86, 38944), (89, 38920), (96, 38890), (97, 38848),

Gene: QueenB2_59 Start: 39319, Stop: 38915, Start Num: 51

Candidate Starts for QueenB2_59:

(Start: 29 @39394 has 1 MA's), (Start: 51 @39319 has 49 MA's), (89, 39124), (96, 39094), (97, 39052),

Gene: QueenBeesly_60 Start: 39288, Stop: 38884, Start Num: 51

Candidate Starts for QueenBeesly_60:
(Start: 51 @39288 has 49 MA's), (89, 39093), (96, 39063), (97, 39021),

Gene: QuinnKiro_57 Start: 38737, Stop: 38330, Start Num: 55
Candidate Starts for QuinnKiro_57:
(Start: 55 @38737 has 24 MA's), (81, 38605), (90, 38548), (96, 38521),

Gene: RER2_42 Start: 32378, Stop: 31968, Start Num: 61
Candidate Starts for RER2_42:
(Start: 29 @32474 has 1 MA's), (Start: 61 @32378 has 35 MA's), (Start: 72 @32348 has 1 MA's), (76, 32312), (95, 32168), (96, 32159),

Gene: RGL3_43 Start: 33332, Stop: 32922, Start Num: 61
Candidate Starts for RGL3_43:
(Start: 61 @33332 has 35 MA's), (Start: 72 @33302 has 1 MA's), (88, 33155), (96, 33113),

Gene: Rachaly_59 Start: 39578, Stop: 39183, Start Num: 58
Candidate Starts for Rachaly_59:
(Start: 58 @39578 has 44 MA's), (89, 39392), (96, 39362), (97, 39320),

Gene: Rajelicia_56 Start: 40364, Stop: 40035, Start Num: 78
Candidate Starts for Rajelicia_56:
(Start: 57 @40445 has 186 MA's), (Start: 78 @40364 has 2 MA's), (93, 40241),

Gene: Rasputin_49 Start: 35476, Stop: 35066, Start Num: 61
Candidate Starts for Rasputin_49:
(Start: 29 @35572 has 1 MA's), (Start: 61 @35476 has 35 MA's), (Start: 72 @35446 has 1 MA's), (76, 35410), (95, 35266), (96, 35257),

Gene: Reba_63 Start: 38666, Stop: 38259, Start Num: 60
Candidate Starts for Reba_63:
(Start: 60 @38666 has 80 MA's), (Start: 72 @38639 has 1 MA's), (79, 38582), (90, 38477), (96, 38450),

Gene: Rebeuca_57 Start: 38649, Stop: 38236, Start Num: 56
Candidate Starts for Rebeuca_57:
(Start: 56 @38649 has 122 MA's), (81, 38511), (90, 38454), (96, 38427),

Gene: RedRock_62 Start: 40165, Stop: 39773, Start Num: 58
Candidate Starts for RedRock_62:
(Start: 41 @40195 has 1 MA's), (Start: 58 @40165 has 44 MA's), (Start: 72 @40138 has 1 MA's), (96, 39952), (97, 39910),

Gene: Refuge_58 Start: 40421, Stop: 40029, Start Num: 58
Candidate Starts for Refuge_58:
(22, 40565), (26, 40544), (Start: 58 @40421 has 44 MA's), (86, 40259), (89, 40235), (96, 40202),

Gene: Relief_55 Start: 38365, Stop: 37952, Start Num: 56
Candidate Starts for Relief_55:
(Start: 56 @38365 has 122 MA's), (83, 38218), (88, 38185), (89, 38173), (96, 38143),

Gene: Remus_67 Start: 38495, Stop: 38115, Start Num: 68
Candidate Starts for Remus_67:

(25, 38636), (Start: 68 @38495 has 18 MA's), (86, 38348), (96, 38291), (97, 38249),

Gene: ResDef_58 Start: 38737, Stop: 38330, Start Num: 55

Candidate Starts for ResDef_58:

(Start: 55 @38737 has 24 MA's), (81, 38605), (90, 38548), (96, 38521),

Gene: Retro23_61 Start: 39533, Stop: 39129, Start Num: 51

Candidate Starts for Retro23_61:

(Start: 29 @39608 has 1 MA's), (Start: 51 @39533 has 49 MA's), (96, 39308), (97, 39266),

Gene: RexFury_48 Start: 35537, Stop: 35127, Start Num: 61

Candidate Starts for RexFury_48:

(Start: 29 @35633 has 1 MA's), (Start: 61 @35537 has 35 MA's), (Start: 72 @35507 has 1 MA's), (76, 35471), (95, 35327), (96, 35318),

Gene: Rhodalysa_49 Start: 35506, Stop: 35096, Start Num: 61

Candidate Starts for Rhodalysa_49:

(Start: 29 @35602 has 1 MA's), (Start: 61 @35506 has 35 MA's), (Start: 72 @35476 has 1 MA's), (76, 35440), (95, 35296), (96, 35287),

Gene: RhynO_57 Start: 38451, Stop: 38038, Start Num: 56

Candidate Starts for RhynO_57:

(Start: 56 @38451 has 122 MA's), (81, 38313), (90, 38256), (96, 38229),

Gene: Rhynn_54 Start: 38612, Stop: 38097, Start Num: 57

Candidate Starts for Rhynn_54:

(Start: 57 @38612 has 186 MA's), (Start: 78 @38531 has 2 MA's), (81, 38477), (91, 38414), (93, 38408), (96, 38393), (100, 38165), (101, 38147),

Gene: RidgeCB_55 Start: 39712, Stop: 39197, Start Num: 57

Candidate Starts for RidgeCB_55:

(Start: 57 @39712 has 186 MA's), (Start: 78 @39631 has 2 MA's), (81, 39577), (91, 39514), (93, 39508), (96, 39493), (100, 39265), (101, 39247),

Gene: Rifter_62 Start: 37546, Stop: 37157, Start Num: 64

Candidate Starts for Rifter_62:

(Start: 64 @37546 has 53 MA's), (89, 37366), (96, 37336), (97, 37294),

Gene: Ringer_56 Start: 40762, Stop: 40352, Start Num: 57

Candidate Starts for Ringer_56:

(Start: 57 @40762 has 186 MA's), (Start: 78 @40681 has 2 MA's), (93, 40558),

Gene: Roary_61 Start: 38422, Stop: 38009, Start Num: 59

Candidate Starts for Roary_61:

(Start: 59 @38422 has 12 MA's), (Start: 72 @38395 has 1 MA's), (87, 38257), (88, 38248),

Gene: Rohr_57 Start: 39657, Stop: 39247, Start Num: 57

Candidate Starts for Rohr_57:

(Start: 57 @39657 has 186 MA's), (Start: 78 @39576 has 2 MA's), (93, 39453),

Gene: Roksolana_63 Start: 38380, Stop: 37991, Start Num: 64

Candidate Starts for Roksolana_63:

(Start: 64 @38380 has 53 MA's), (89, 38200), (96, 38170), (97, 38128),

Gene: Romero_59 Start: 31209, Stop: 30820, Start Num: 53

Candidate Starts for Romero_59:

(Start: 53 @31209 has 21 MA's), (Start: 72 @31164 has 1 MA's), (77, 31125), (81, 31059), (85, 31041), (88, 31017), (93, 30990),

Gene: Roosevelt_55 Start: 38370, Stop: 37957, Start Num: 56

Candidate Starts for Roosevelt_55:

(Start: 56 @38370 has 122 MA's), (83, 38223), (88, 38190), (89, 38178), (96, 38148),

Gene: Rosalind_65 Start: 38647, Stop: 38267, Start Num: 68

Candidate Starts for Rosalind_65:

(Start: 68 @38647 has 18 MA's), (86, 38500), (96, 38443), (97, 38401),

Gene: RosePharie_59 Start: 31033, Stop: 30644, Start Num: 53

Candidate Starts for RosePharie_59:

(Start: 53 @31033 has 21 MA's), (76, 30952), (85, 30865), (88, 30841), (93, 30814),

Gene: Rubeus_56 Start: 37595, Stop: 37080, Start Num: 57

Candidate Starts for Rubeus_56:

(Start: 57 @37595 has 186 MA's), (Start: 78 @37514 has 2 MA's), (81, 37460), (91, 37397), (93, 37391), (96, 37376), (100, 37148), (101, 37130),

Gene: Rufus_57 Start: 39200, Stop: 38685, Start Num: 57

Candidate Starts for Rufus_57:

(Start: 57 @39200 has 186 MA's), (Start: 78 @39119 has 2 MA's), (81, 39065), (91, 39002), (93, 38996), (96, 38981), (100, 38753), (101, 38735),

Gene: Ruin_56 Start: 38361, Stop: 37948, Start Num: 56

Candidate Starts for Ruin_56:

(Start: 56 @38361 has 122 MA's), (83, 38214), (89, 38169), (96, 38139),

Gene: Rummer_62 Start: 39149, Stop: 38742, Start Num: 60

Candidate Starts for Rummer_62:

(Start: 60 @39149 has 80 MA's), (Start: 67 @39134 has 1 MA's), (Start: 72 @39122 has 1 MA's), (79, 39065), (90, 38960), (96, 38933),

Gene: Ruotula_58 Start: 41618, Stop: 41202, Start Num: 57

Candidate Starts for Ruotula_58:

(17, 41816), (19, 41804), (Start: 57 @41618 has 186 MA's), (86, 41453), (93, 41414), (96, 41399),

Gene: Rutherferd_57 Start: 39831, Stop: 39316, Start Num: 57

Candidate Starts for Rutherferd_57:

(Start: 57 @39831 has 186 MA's), (Start: 78 @39750 has 2 MA's), (81, 39696), (91, 39633), (93, 39627), (96, 39612), (100, 39384), (101, 39366),

Gene: RyeScarlet_61 Start: 39143, Stop: 38760, Start Num: 64

Candidate Starts for RyeScarlet_61:

(Start: 48 @39173 has 1 MA's), (Start: 49 @39170 has 1 MA's), (Start: 64 @39143 has 53 MA's), (86, 38987), (89, 38963), (96, 38933), (97, 38891),

Gene: STLscum_58 Start: 40467, Stop: 39952, Start Num: 57

Candidate Starts for STLscum_58:

(14, 40701), (Start: 57 @40467 has 186 MA's), (Start: 78 @40386 has 2 MA's), (81, 40332), (91, 40269), (93, 40263), (96, 40248), (100, 40020), (101, 40002),

Gene: Sabertooth_56 Start: 38370, Stop: 37957, Start Num: 56

Candidate Starts for Sabertooth_56:

(Start: 56 @38370 has 122 MA's), (83, 38223), (88, 38190), (89, 38178), (96, 38148),

Gene: Sabia_63 Start: 39130, Stop: 38723, Start Num: 60

Candidate Starts for Sabia_63:

(Start: 60 @39130 has 80 MA's), (Start: 67 @39115 has 1 MA's), (Start: 72 @39103 has 1 MA's), (79, 39046), (90, 38941), (96, 38914),

Gene: Sabinator_62 Start: 39120, Stop: 38713, Start Num: 60

Candidate Starts for Sabinator_62:

(Start: 60 @39120 has 80 MA's), (Start: 67 @39105 has 1 MA's), (Start: 72 @39093 has 1 MA's), (79, 39036), (90, 38931), (96, 38904),

Gene: Sagefire_58 Start: 40408, Stop: 39893, Start Num: 57

Candidate Starts for Sagefire_58:

(Start: 57 @40408 has 186 MA's), (Start: 78 @40327 has 2 MA's), (81, 40273), (91, 40210), (93, 40204), (96, 40189), (100, 39961), (101, 39943),

Gene: Saintus_55 Start: 35090, Stop: 34677, Start Num: 59

Candidate Starts for Saintus_55:

(Start: 59 @35090 has 12 MA's), (Start: 72 @35063 has 1 MA's), (87, 34925), (88, 34916),

Gene: SarFire_53 Start: 38723, Stop: 38181, Start Num: 57

Candidate Starts for SarFire_53:

(Start: 57 @38723 has 186 MA's), (Start: 78 @38642 has 2 MA's), (81, 38588), (91, 38525), (93, 38519), (96, 38504), (100, 38276), (101, 38258),

Gene: Scamp_56 Start: 38370, Stop: 37957, Start Num: 56

Candidate Starts for Scamp_56:

(Start: 56 @38370 has 122 MA's), (83, 38223), (88, 38190), (89, 38178), (96, 38148),

Gene: Scherzo_60 Start: 39357, Stop: 38974, Start Num: 64

Candidate Starts for Scherzo_60:

(Start: 48 @39387 has 1 MA's), (Start: 64 @39357 has 53 MA's), (86, 39201), (89, 39177), (96, 39147), (97, 39105),

Gene: Scorpia_59 Start: 38810, Stop: 38400, Start Num: 62

Candidate Starts for Scorpia_59:

(Start: 62 @38810 has 80 MA's), (82, 38675), (88, 38639), (96, 38597),

Gene: Scout_59 Start: 37926, Stop: 37519, Start Num: 55

Candidate Starts for Scout_59:

(Start: 55 @37926 has 24 MA's), (81, 37794), (90, 37737), (96, 37710),

Gene: Scowl_56 Start: 39552, Stop: 39010, Start Num: 57

Candidate Starts for Scowl_56:

(Start: 57 @39552 has 186 MA's), (Start: 78 @39471 has 2 MA's), (81, 39417), (91, 39354), (93, 39348), (96, 39333), (100, 39105), (101, 39087),

Gene: Seabiscuit_58 Start: 39337, Stop: 38822, Start Num: 57

Candidate Starts for Seabiscuit_58:

(12, 39607), (Start: 57 @39337 has 186 MA's), (Start: 78 @39256 has 2 MA's), (81, 39202), (91, 39139), (93, 39133), (96, 39118), (100, 38890), (101, 38872),

Gene: Seanderson_57 Start: 40932, Stop: 40417, Start Num: 57

Candidate Starts for Seanderson_57:

(13, 41190), (18, 41121), (Start: 57 @40932 has 186 MA's), (Start: 78 @40851 has 2 MA's), (81, 40797), (91, 40734), (93, 40728), (96, 40713), (100, 40485), (101, 40467),

Gene: SemperFi_61 Start: 39556, Stop: 39152, Start Num: 51

Candidate Starts for SemperFi_61:

(Start: 51 @39556 has 49 MA's), (89, 39361), (96, 39331), (97, 39289),

Gene: Severus_55 Start: 37508, Stop: 37089, Start Num: 53

Candidate Starts for Severus_55:

(Start: 53 @37508 has 21 MA's), (Start: 67 @37481 has 1 MA's), (81, 37364), (96, 37280),

Gene: Sham4_60 Start: 38424, Stop: 38035, Start Num: 58

Candidate Starts for Sham4_60:

(Start: 58 @38424 has 44 MA's), (96, 38214), (97, 38172),

Gene: ShayRa_67 Start: 38676, Stop: 38296, Start Num: 68

Candidate Starts for ShayRa_67:

(Start: 68 @38676 has 18 MA's), (86, 38529), (96, 38472), (97, 38430),

Gene: SheaKeira_58 Start: 38784, Stop: 38395, Start Num: 57

Candidate Starts for SheaKeira_58:

(31, 38865), (Start: 57 @38784 has 186 MA's), (86, 38622), (89, 38598), (96, 38568), (97, 38526),

Gene: Sheen_58 Start: 41062, Stop: 40658, Start Num: 62

Candidate Starts for Sheen_58:

(43, 41101), (Start: 59 @41065 has 12 MA's), (Start: 62 @41062 has 80 MA's), (Start: 67 @41050 has 1 MA's), (70, 41044), (Start: 72 @41038 has 1 MA's), (81, 40933), (90, 40876), (96, 40849),

Gene: SheldonCooper_57 Start: 38772, Stop: 38359, Start Num: 56

Candidate Starts for SheldonCooper_57:

(Start: 56 @38772 has 122 MA's), (83, 38625), (89, 38580), (96, 38550),

Gene: Shuman_49 Start: 35460, Stop: 35050, Start Num: 61

Candidate Starts for Shuman_49:

(Start: 29 @35556 has 1 MA's), (Start: 61 @35460 has 35 MA's), (Start: 72 @35430 has 1 MA's), (76, 35394), (95, 35250), (96, 35241),

Gene: Shygu2_55 Start: 38382, Stop: 37957, Start Num: 51

Candidate Starts for Shygu2_55:

(40, 38409), (Start: 51 @38382 has 49 MA's), (Start: 62 @38361 has 80 MA's), (81, 38232), (88, 38190), (96, 38148),

Gene: SkiPole_60 Start: 40137, Stop: 39622, Start Num: 57

Candidate Starts for SkiPole_60:

(11, 40407), (14, 40371), (Start: 57 @40137 has 186 MA's), (Start: 78 @40056 has 2 MA's), (81, 40002), (91, 39939), (93, 39933), (96, 39918), (100, 39690), (101, 39672),

Gene: Skipitt_55 Start: 38362, Stop: 37949, Start Num: 56

Candidate Starts for Skipitt_55:

(Start: 56 @38362 has 122 MA's), (83, 38215), (88, 38182), (89, 38170), (96, 38140),

Gene: Slagathor_58 Start: 40564, Stop: 40154, Start Num: 57

Candidate Starts for Slagathor_58:

(Start: 57 @40564 has 186 MA's), (Start: 78 @40483 has 2 MA's), (93, 40360),

Gene: Smairt_58 Start: 40827, Stop: 40282, Start Num: 42

Candidate Starts for Smairt_58:

(Start: 42 @40827 has 2 MA's), (Start: 47 @40818 has 1 MA's), (84, 40650), (86, 40632), (91, 40599), (93, 40593), (96, 40578), (100, 40350), (101, 40332),

Gene: Smeadley_60 Start: 38283, Stop: 37870, Start Num: 59

Candidate Starts for Smeadley_60:

(Start: 59 @38283 has 12 MA's), (Start: 72 @38256 has 1 MA's), (87, 38118), (88, 38109),

Gene: Smeagan_63 Start: 39846, Stop: 39445, Start Num: 51

Candidate Starts for Smeagan_63:

(Start: 34 @39891 has 1 MA's), (Start: 51 @39846 has 49 MA's), (89, 39654), (96, 39624), (97, 39582),

Gene: Smeagol_58 Start: 40791, Stop: 40276, Start Num: 57

Candidate Starts for Smeagol_58:

(23, 40923), (Start: 57 @40791 has 186 MA's), (Start: 78 @40710 has 2 MA's), (81, 40656), (91, 40593), (93, 40587), (96, 40572), (100, 40344), (101, 40326),

Gene: SmellyB_61 Start: 37935, Stop: 37546, Start Num: 64

Candidate Starts for SmellyB_61:

(Start: 64 @37935 has 53 MA's), (89, 37755), (96, 37725), (97, 37683),

Gene: SnapTap_60 Start: 39367, Stop: 38963, Start Num: 51

Candidate Starts for SnapTap_60:

(Start: 51 @39367 has 49 MA's), (89, 39172), (96, 39142), (97, 39100),

Gene: Snape_60 Start: 38416, Stop: 38027, Start Num: 58

Candidate Starts for Snape_60:

(Start: 58 @38416 has 44 MA's), (96, 38206), (97, 38164),

Gene: Snazzy_55 Start: 39170, Stop: 38655, Start Num: 57

Candidate Starts for Snazzy_55:

(Start: 57 @39170 has 186 MA's), (Start: 78 @39089 has 2 MA's), (81, 39035), (91, 38972), (93, 38966), (96, 38951), (100, 38723), (101, 38705),

Gene: SoYo_63 Start: 39033, Stop: 38626, Start Num: 60

Candidate Starts for SoYo_63:

(Start: 60 @39033 has 80 MA's), (Start: 67 @39018 has 1 MA's), (Start: 72 @39006 has 1 MA's), (79, 38949), (90, 38844), (96, 38817),

Gene: SoilDragon_63 Start: 38569, Stop: 38162, Start Num: 60

Candidate Starts for SoilDragon_63:

(Start: 60 @38569 has 80 MA's), (Start: 67 @38554 has 1 MA's), (Start: 72 @38542 has 1 MA's), (79, 38485), (90, 38380), (96, 38353),

Gene: Solon_54 Start: 39048, Stop: 38533, Start Num: 57

Candidate Starts for Solon_54:

(Start: 57 @39048 has 186 MA's), (Start: 78 @38967 has 2 MA's), (81, 38913), (91, 38850), (93, 38844), (96, 38829), (100, 38601), (101, 38583),

Gene: SororFago_61 Start: 40117, Stop: 39734, Start Num: 57

Candidate Starts for SororFago_61:

(4, 40477), (22, 40255), (26, 40234), (Start: 57 @40117 has 186 MA's), (81, 39991), (86, 39961), (89, 39937), (96, 39907),

Gene: Sorpresa_54 Start: 39163, Stop: 38648, Start Num: 57

Candidate Starts for Sorpresa_54:

(Start: 57 @39163 has 186 MA's), (Start: 78 @39082 has 2 MA's), (81, 39028), (91, 38965), (93, 38959), (96, 38944), (100, 38716), (101, 38698),

Gene: Soshari_65 Start: 39145, Stop: 38738, Start Num: 60

Candidate Starts for Soshari_65:

(Start: 60 @39145 has 80 MA's), (Start: 67 @39130 has 1 MA's), (Start: 72 @39118 has 1 MA's), (79, 39061), (90, 38956), (96, 38929),

Gene: Soups_67 Start: 38939, Stop: 38559, Start Num: 68

Candidate Starts for Soups_67:

(Start: 68 @38939 has 18 MA's), (86, 38792), (96, 38735), (97, 38693),

Gene: Sparxx_57 Start: 38363, Stop: 37950, Start Num: 56

Candidate Starts for Sparxx_57:

(Start: 56 @38363 has 122 MA's), (83, 38216), (88, 38183), (89, 38171), (96, 38141),

Gene: Spike509_63 Start: 39146, Stop: 38739, Start Num: 60

Candidate Starts for Spike509_63:

(Start: 60 @39146 has 80 MA's), (Start: 67 @39131 has 1 MA's), (Start: 72 @39119 has 1 MA's), (79, 39062), (88, 38972), (90, 38957), (96, 38930),

Gene: SpikeBT_55 Start: 39240, Stop: 38830, Start Num: 57

Candidate Starts for SpikeBT_55:

(Start: 57 @39240 has 186 MA's), (Start: 78 @39159 has 2 MA's), (93, 39036),

Gene: Spino_55 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for Spino_55:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: Spouty_60 Start: 39137, Stop: 38754, Start Num: 62

Candidate Starts for Spouty_60:

(50, 39164), (Start: 62 @39137 has 80 MA's), (86, 38981), (89, 38957), (96, 38927), (97, 38885),

Gene: Squee_56 Start: 39751, Stop: 39236, Start Num: 57

Candidate Starts for Squee_56:

(Start: 57 @39751 has 186 MA's), (Start: 78 @39670 has 2 MA's), (81, 39616), (91, 39553), (93, 39547), (96, 39532), (100, 39304), (101, 39286),

Gene: StCroix_48 Start: 35519, Stop: 35109, Start Num: 61
Candidate Starts for StCroix_48:
(Start: 29 @35615 has 1 MA's), (Start: 61 @35519 has 35 MA's), (Start: 72 @35489 has 1 MA's), (76, 35453), (95, 35309), (96, 35300),

Gene: Stagni_63 Start: 39124, Stop: 38717, Start Num: 60
Candidate Starts for Stagni_63:
(Start: 60 @39124 has 80 MA's), (Start: 67 @39109 has 1 MA's), (Start: 72 @39097 has 1 MA's), (79, 39040), (90, 38935), (96, 38908),

Gene: StarStuff_62 Start: 39120, Stop: 38731, Start Num: 58
Candidate Starts for StarStuff_62:
(22, 39264), (27, 39231), (Start: 58 @39120 has 44 MA's), (89, 38940), (96, 38910), (97, 38868),

Gene: Stasia_55 Start: 38237, Stop: 37833, Start Num: 62
Candidate Starts for Stasia_55:
(Start: 62 @38237 has 80 MA's), (81, 38108), (88, 38066), (96, 38024),

Gene: Stella_62 Start: 31845, Stop: 31456, Start Num: 52
Candidate Starts for Stella_62:
(Start: 52 @31845 has 7 MA's), (85, 31677), (88, 31653), (93, 31626),

Gene: Stephig9_60 Start: 38391, Stop: 37978, Start Num: 59
Candidate Starts for Stephig9_60:
(37, 38445), (Start: 59 @38391 has 12 MA's), (87, 38226), (88, 38217),

Gene: Stink_54 Start: 38053, Stop: 37649, Start Num: 62
Candidate Starts for Stink_54:
(Start: 62 @38053 has 80 MA's), (81, 37924), (89, 37870), (96, 37840),

Gene: StrongArm_54 Start: 40247, Stop: 39732, Start Num: 57
Candidate Starts for StrongArm_54:
(11, 40517), (14, 40481), (Start: 57 @40247 has 186 MA's), (Start: 78 @40166 has 2 MA's), (81, 40112), (91, 40049), (93, 40043), (96, 40028), (100, 39800), (101, 39782),

Gene: Strosahl_67 Start: 38495, Stop: 38115, Start Num: 68
Candidate Starts for Strosahl_67:
(25, 38636), (Start: 68 @38495 has 18 MA's), (86, 38348), (96, 38291), (97, 38249),

Gene: Success_30 Start: 19188, Stop: 18790, Start Num: 55
Candidate Starts for Success_30:
(54, 19191), (Start: 55 @19188 has 24 MA's), (79, 19104), (81, 19050), (91, 18987), (93, 18981),

Gene: Sumter_52 Start: 39707, Stop: 39192, Start Num: 57
Candidate Starts for Sumter_52:
(Start: 57 @39707 has 186 MA's), (Start: 78 @39626 has 2 MA's), (81, 39572), (91, 39509), (93, 39503), (96, 39488), (100, 39260), (101, 39242),

Gene: Sunhee_62 Start: 38558, Stop: 38175, Start Num: 64
Candidate Starts for Sunhee_62:
(Start: 64 @38558 has 53 MA's), (86, 38402), (89, 38378), (96, 38348), (97, 38306),

Gene: Sunshine924_57 Start: 38845, Stop: 38330, Start Num: 57

Candidate Starts for Sunshine924_57:

(Start: 57 @38845 has 186 MA's), (Start: 78 @38764 has 2 MA's), (81, 38710), (91, 38647), (93, 38641), (96, 38626), (100, 38398), (101, 38380),

Gene: SuperAwesome_61 Start: 37940, Stop: 37551, Start Num: 64

Candidate Starts for SuperAwesome_61:

(Start: 64 @37940 has 53 MA's), (89, 37760), (96, 37730), (97, 37688),

Gene: Superchunk_58 Start: 37796, Stop: 37404, Start Num: 60

Candidate Starts for Superchunk_58:

(Start: 60 @37796 has 80 MA's), (89, 37613), (96, 37583), (97, 37541),

Gene: Swann_49 Start: 35504, Stop: 35094, Start Num: 61

Candidate Starts for Swann_49:

(Start: 29 @35600 has 1 MA's), (Start: 61 @35504 has 35 MA's), (Start: 72 @35474 has 1 MA's), (76, 35438), (95, 35294), (96, 35285),

Gene: SweetiePie_60 Start: 39499, Stop: 39095, Start Num: 51

Candidate Starts for SweetiePie_60:

(Start: 51 @39499 has 49 MA's), (89, 39304), (96, 39274), (97, 39232),

Gene: Swirley_56 Start: 38866, Stop: 38456, Start Num: 62

Candidate Starts for Swirley_56:

(Start: 62 @38866 has 80 MA's), (82, 38731), (87, 38704), (88, 38695), (96, 38653),

Gene: SwissCheese_57 Start: 39364, Stop: 38849, Start Num: 57

Candidate Starts for SwissCheese_57:

(Start: 57 @39364 has 186 MA's), (Start: 78 @39283 has 2 MA's), (81, 39229), (91, 39166), (93, 39160), (96, 39145), (100, 38917), (101, 38899),

Gene: Switzerland_66 Start: 38815, Stop: 38435, Start Num: 68

Candidate Starts for Switzerland_66:

(Start: 68 @38815 has 18 MA's), (86, 38668), (96, 38611), (97, 38569),

Gene: SydNat_57 Start: 39505, Stop: 39095, Start Num: 62

Candidate Starts for SydNat_57:

(Start: 62 @39505 has 80 MA's), (82, 39370), (87, 39343), (88, 39334), (96, 39292),

Gene: TNguyen7_60 Start: 38738, Stop: 38331, Start Num: 55

Candidate Starts for TNguyen7_60:

(Start: 55 @38738 has 24 MA's), (81, 38606), (90, 38549), (96, 38522),

Gene: TWAMP_49 Start: 35506, Stop: 35096, Start Num: 61

Candidate Starts for TWAMP_49:

(Start: 29 @35602 has 1 MA's), (Start: 61 @35506 has 35 MA's), (Start: 72 @35476 has 1 MA's), (76, 35440), (95, 35296), (96, 35287),

Gene: Takoda_49 Start: 35689, Stop: 35279, Start Num: 61

Candidate Starts for Takoda_49:

(Start: 29 @35785 has 1 MA's), (Start: 61 @35689 has 35 MA's), (Start: 72 @35659 has 1 MA's), (76, 35623), (95, 35479), (96, 35470),

Gene: Taquarus_56 Start: 38371, Stop: 37958, Start Num: 56

Candidate Starts for Taquarus_56:

(Start: 56 @38371 has 122 MA's), (83, 38224), (89, 38179), (96, 38149),

Gene: Target_56 Start: 37955, Stop: 37440, Start Num: 57

Candidate Starts for Target_56:

(12, 38225), (15, 38189), (Start: 57 @37955 has 186 MA's), (74, 37898), (Start: 78 @37874 has 2 MA's), (81, 37820), (91, 37757), (93, 37751), (96, 37736), (100, 37508), (101, 37490),

Gene: Tarynearal_52 Start: 38311, Stop: 37901, Start Num: 62

Candidate Starts for Tarynearal_52:

(Start: 62 @38311 has 80 MA's), (82, 38176), (87, 38149), (88, 38140), (96, 38098),

Gene: Tasp14_57 Start: 39750, Stop: 39208, Start Num: 57

Candidate Starts for Tasp14_57:

(12, 40020), (Start: 57 @39750 has 186 MA's), (Start: 78 @39669 has 2 MA's), (81, 39615), (91, 39552), (93, 39546), (96, 39531), (100, 39303), (101, 39285),

Gene: Taurus_64 Start: 39121, Stop: 38714, Start Num: 60

Candidate Starts for Taurus_64:

(Start: 60 @39121 has 80 MA's), (Start: 67 @39106 has 1 MA's), (Start: 72 @39094 has 1 MA's), (79, 39037), (90, 38932), (96, 38905),

Gene: Texage_57 Start: 38738, Stop: 38331, Start Num: 55

Candidate Starts for Texage_57:

(Start: 55 @38738 has 24 MA's), (81, 38606), (90, 38549), (96, 38522),

Gene: Thanksgivukkah_55 Start: 38366, Stop: 37953, Start Num: 56

Candidate Starts for Thanksgivukkah_55:

(Start: 56 @38366 has 122 MA's), (83, 38219), (88, 38186), (89, 38174), (96, 38144),

Gene: Theia_53 Start: 38985, Stop: 38575, Start Num: 62

Candidate Starts for Theia_53:

(Start: 62 @38985 has 80 MA's), (82, 38850), (87, 38823), (88, 38814), (96, 38772),

Gene: TheloniousMonk_56 Start: 41420, Stop: 40905, Start Num: 57

Candidate Starts for TheloniousMonk_56:

(Start: 57 @41420 has 186 MA's), (Start: 78 @41339 has 2 MA's), (81, 41285), (91, 41222), (93, 41216), (96, 41201), (100, 40973), (101, 40955),

Gene: Thor_53 Start: 38081, Stop: 37539, Start Num: 57

Candidate Starts for Thor_53:

(Start: 57 @38081 has 186 MA's), (Start: 78 @38000 has 2 MA's), (81, 37946), (91, 37883), (93, 37877), (96, 37862), (100, 37634), (101, 37616),

Gene: Tiffany_62 Start: 39007, Stop: 38600, Start Num: 60

Candidate Starts for Tiffany_62:

(Start: 60 @39007 has 80 MA's), (Start: 67 @38992 has 1 MA's), (Start: 72 @38980 has 1 MA's), (79, 38923), (90, 38818), (96, 38791),

Gene: Tiger_53 Start: 38171, Stop: 37761, Start Num: 62

Candidate Starts for Tiger_53:

(Start: 62 @38171 has 80 MA's), (82, 38036), (87, 38009), (88, 38000), (96, 37958),

Gene: Timothy_60 Start: 38393, Stop: 38004, Start Num: 58

Candidate Starts for Timothy_60:

(Start: 58 @38393 has 44 MA's), (96, 38183), (97, 38141),

Gene: Timshel_55 Start: 40336, Stop: 39932, Start Num: 62

Candidate Starts for Timshel_55:

(Start: 59 @40339 has 12 MA's), (Start: 62 @40336 has 80 MA's), (Start: 67 @40324 has 1 MA's),
(Start: 72 @40312 has 1 MA's), (81, 40207), (90, 40150), (96, 40123),

Gene: TinaFeyge_55 Start: 38363, Stop: 37950, Start Num: 56

Candidate Starts for TinaFeyge_55:

(Start: 56 @38363 has 122 MA's), (83, 38216), (88, 38183), (89, 38171), (96, 38141),

Gene: TinyTimmy_60 Start: 38442, Stop: 38053, Start Num: 58

Candidate Starts for TinyTimmy_60:

(1, 38871), (4, 38808), (22, 38586), (Start: 58 @38442 has 44 MA's), (96, 38232), (97, 38190),

Gene: Tinybot_55 Start: 38395, Stop: 37982, Start Num: 56

Candidate Starts for Tinybot_55:

(Start: 56 @38395 has 122 MA's), (83, 38248), (88, 38215), (89, 38203), (96, 38173),

Gene: TipsytheTRex_57 Start: 38759, Stop: 38370, Start Num: 62

Candidate Starts for TipsytheTRex_57:

(Start: 62 @38759 has 80 MA's), (86, 38603), (89, 38579), (96, 38549), (97, 38507),

Gene: TiroTheta9_56 Start: 38362, Stop: 37949, Start Num: 56

Candidate Starts for TiroTheta9_56:

(Start: 56 @38362 has 122 MA's), (83, 38215), (88, 38182), (89, 38170), (96, 38140),

Gene: Toaka_60 Start: 39067, Stop: 38666, Start Num: 52

Candidate Starts for Toaka_60:

(Start: 52 @39067 has 7 MA's), (70, 39031), (86, 38890), (89, 38866), (96, 38836), (97, 38794),

Gene: Todacoro_58 Start: 38737, Stop: 38330, Start Num: 55

Candidate Starts for Todacoro_58:

(Start: 55 @38737 has 24 MA's), (81, 38605), (90, 38548), (96, 38521),

Gene: Tomathan_62 Start: 39167, Stop: 38778, Start Num: 58

Candidate Starts for Tomathan_62:

(22, 39311), (27, 39278), (Start: 58 @39167 has 44 MA's), (89, 38987), (96, 38957), (97, 38915),

Gene: ToneTone_59 Start: 37979, Stop: 37590, Start Num: 64

Candidate Starts for ToneTone_59:

(Start: 64 @37979 has 53 MA's), (89, 37799), (96, 37769), (97, 37727),

Gene: Topanga_54 Start: 38293, Stop: 37880, Start Num: 56

Candidate Starts for Topanga_54:

(Start: 56 @38293 has 122 MA's), (81, 38155), (90, 38098), (96, 38071),

Gene: Topgun_55 Start: 38934, Stop: 38419, Start Num: 57

Candidate Starts for Topgun_55:

(Start: 57 @38934 has 186 MA's), (Start: 78 @38853 has 2 MA's), (81, 38799), (91, 38736), (93, 38730), (96, 38715), (100, 38487), (101, 38469),

Gene: ToriToki_59 Start: 31212, Stop: 30823, Start Num: 53

Candidate Starts for ToriToki_59:

(Start: 53 @31212 has 21 MA's), (Start: 72 @31167 has 1 MA's), (77, 31128), (81, 31062), (85, 31044), (88, 31020), (93, 30993),

Gene: Tote_52 Start: 36035, Stop: 35625, Start Num: 57

Candidate Starts for Tote_52:

(Start: 57 @36035 has 186 MA's), (74, 35978), (Start: 78 @35954 has 2 MA's), (93, 35831),

Gene: Traft412_58 Start: 40325, Stop: 39810, Start Num: 57

Candidate Starts for Traft412_58:

(Start: 57 @40325 has 186 MA's), (Start: 78 @40244 has 2 MA's), (81, 40190), (91, 40127), (93, 40121), (96, 40106), (100, 39878), (101, 39860),

Gene: Treat_59 Start: 31153, Stop: 30764, Start Num: 53

Candidate Starts for Treat_59:

(Start: 53 @31153 has 21 MA's), (Start: 72 @31108 has 1 MA's), (77, 31069), (81, 31003), (85, 30985), (88, 30961), (93, 30934),

Gene: Treddle_56 Start: 39857, Stop: 39342, Start Num: 57

Candidate Starts for Treddle_56:

(Start: 57 @39857 has 186 MA's), (Start: 78 @39776 has 2 MA's), (81, 39722), (91, 39659), (93, 39653), (96, 39638), (100, 39410), (101, 39392),

Gene: Tripl3t_56 Start: 40715, Stop: 40200, Start Num: 57

Candidate Starts for Tripl3t_56:

(Start: 57 @40715 has 186 MA's), (Start: 78 @40634 has 2 MA's), (81, 40580), (91, 40517), (93, 40511), (96, 40496), (100, 40268), (101, 40250),

Gene: Trixie_58 Start: 39186, Stop: 38794, Start Num: 58

Candidate Starts for Trixie_58:

(Start: 42 @39210 has 2 MA's), (Start: 58 @39186 has 44 MA's), (89, 39003), (96, 38973), (97, 38931),

Gene: Trooper_61 Start: 39688, Stop: 39284, Start Num: 51

Candidate Starts for Trooper_61:

(Start: 51 @39688 has 49 MA's), (89, 39493), (96, 39463), (97, 39421),

Gene: Trouble_58 Start: 40588, Stop: 40073, Start Num: 57

Candidate Starts for Trouble_58:

(Start: 57 @40588 has 186 MA's), (Start: 78 @40507 has 2 MA's), (81, 40453), (91, 40390), (93, 40384), (96, 40369), (100, 40141), (101, 40123),

Gene: TroyPia_57 Start: 38366, Stop: 37953, Start Num: 56

Candidate Starts for TroyPia_57:

(Start: 56 @38366 has 122 MA's), (83, 38219), (88, 38186), (89, 38174), (96, 38144),

Gene: Tubs_60 Start: 39071, Stop: 38688, Start Num: 64

Candidate Starts for Tubs_60:

(Start: 64 @39071 has 53 MA's), (86, 38915), (88, 38903), (89, 38891), (96, 38861), (97, 38819),

Gene: Tucker_62 Start: 38148, Stop: 37759, Start Num: 64

Candidate Starts for Tucker_62:

(Start: 64 @38148 has 53 MA's), (Start: 72 @38124 has 1 MA's), (89, 37968), (96, 37938), (97, 37896),

Gene: Turbido_61 Start: 39580, Stop: 39179, Start Num: 51

Candidate Starts for Turbido_61:

(Start: 34 @39625 has 1 MA's), (Start: 51 @39580 has 49 MA's), (89, 39388), (96, 39358), (97, 39316),

Gene: Twister_55 Start: 38210, Stop: 37797, Start Num: 56

Candidate Starts for Twister_55:

(Start: 56 @38210 has 122 MA's), (81, 38072), (90, 38015), (96, 37988),

Gene: TwoPeat_57 Start: 39188, Stop: 38778, Start Num: 57

Candidate Starts for TwoPeat_57:

(Start: 57 @39188 has 186 MA's), (Start: 78 @39107 has 2 MA's), (93, 38984),

Gene: TygerBlood_56 Start: 38368, Stop: 37955, Start Num: 56

Candidate Starts for TygerBlood_56:

(Start: 56 @38368 has 122 MA's), (83, 38221), (88, 38188), (89, 38176), (96, 38146),

Gene: U2_55 Start: 40259, Stop: 39744, Start Num: 57

Candidate Starts for U2_55:

(Start: 57 @40259 has 186 MA's), (Start: 78 @40178 has 2 MA's), (81, 40124), (91, 40061), (93, 40055), (96, 40040), (100, 39812), (101, 39794),

Gene: UhSalsa_49 Start: 35448, Stop: 35038, Start Num: 61

Candidate Starts for UhSalsa_49:

(Start: 29 @35544 has 1 MA's), (Start: 61 @35448 has 35 MA's), (Start: 72 @35418 has 1 MA's), (76, 35382), (95, 35238), (96, 35229),

Gene: Ulysses_55 Start: 38045, Stop: 37632, Start Num: 56

Candidate Starts for Ulysses_55:

(Start: 56 @38045 has 122 MA's), (83, 37898), (88, 37865), (89, 37853), (96, 37823),

Gene: UnionJack_88 Start: 38315, Stop: 37905, Start Num: 62

Candidate Starts for UnionJack_88:

(Start: 62 @38315 has 80 MA's), (82, 38180), (87, 38153), (88, 38144), (96, 38102),

Gene: Updawg_61 Start: 39236, Stop: 38826, Start Num: 48

Candidate Starts for Updawg_61:

(38, 39263), (Start: 48 @39236 has 1 MA's), (Start: 51 @39230 has 49 MA's), (89, 39035), (96, 39005),

Gene: VA6_61 Start: 39466, Stop: 39074, Start Num: 58

Candidate Starts for VA6_61:

(Start: 58 @39466 has 44 MA's), (86, 39307), (89, 39283), (96, 39253), (97, 39211),

Gene: VC3_63 Start: 39554, Stop: 39165, Start Num: 58

Candidate Starts for VC3_63:

(22, 39698), (26, 39677), (Start: 58 @39554 has 44 MA's), (89, 39374), (96, 39344), (97, 39302),

Gene: Vanisoa_60 Start: 40172, Stop: 39786, Start Num: 64

Candidate Starts for Vanisoa_60:
(Start: 64 @40172 has 53 MA's), (86, 40013), (89, 39989), (96, 39959),

Gene: Veracruz_57 Start: 38737, Stop: 38330, Start Num: 55
Candidate Starts for Veracruz_57:
(Start: 55 @38737 has 24 MA's), (81, 38605), (90, 38548), (96, 38521),

Gene: Violet_54 Start: 40191, Stop: 39676, Start Num: 57
Candidate Starts for Violet_54:
(Start: 57 @40191 has 186 MA's), (Start: 78 @40110 has 2 MA's), (81, 40056), (91, 39993), (93, 39987), (96, 39972), (100, 39744), (101, 39726),

Gene: VohminGhazi_61 Start: 37936, Stop: 37547, Start Num: 64
Candidate Starts for VohminGhazi_61:
(Start: 64 @37936 has 53 MA's), (89, 37756), (96, 37726), (97, 37684),

Gene: WRightOn_62 Start: 30951, Stop: 30559, Start Num: 52
Candidate Starts for WRightOn_62:
(Start: 52 @30951 has 7 MA's), (76, 30867), (77, 30864), (81, 30798), (85, 30780), (88, 30756), (93, 30729),

Gene: Waits_67 Start: 38712, Stop: 38332, Start Num: 68
Candidate Starts for Waits_67:
(Start: 68 @38712 has 18 MA's), (86, 38565), (96, 38508), (97, 38466),

Gene: WalterMcMickey_55 Start: 38210, Stop: 37797, Start Num: 56
Candidate Starts for WalterMcMickey_55:
(Start: 56 @38210 has 122 MA's), (81, 38072), (90, 38015), (96, 37988),

Gene: Wander_56 Start: 38365, Stop: 37952, Start Num: 56
Candidate Starts for Wander_56:
(Start: 56 @38365 has 122 MA's), (83, 38218), (88, 38185), (89, 38173), (96, 38143),

Gene: Watermelon_56 Start: 39474, Stop: 39064, Start Num: 57
Candidate Starts for Watermelon_56:
(Start: 57 @39474 has 186 MA's), (Start: 78 @39393 has 2 MA's), (93, 39270),

Gene: Whabigail7_61 Start: 39610, Stop: 39164, Start Num: 34
Candidate Starts for Whabigail7_61:
(Start: 34 @39610 has 1 MA's), (Start: 51 @39565 has 49 MA's), (89, 39373), (96, 39343), (97, 39301),

Gene: Wheeler_56 Start: 39350, Stop: 38835, Start Num: 57
Candidate Starts for Wheeler_56:
(Start: 57 @39350 has 186 MA's), (Start: 78 @39269 has 2 MA's), (81, 39215), (91, 39152), (93, 39146), (96, 39131), (100, 38903), (101, 38885),

Gene: WideWale_61 Start: 39230, Stop: 38826, Start Num: 51
Candidate Starts for WideWale_61:
(38, 39263), (Start: 48 @39236 has 1 MA's), (Start: 51 @39230 has 49 MA's), (89, 39035), (96, 39005),

Gene: Wiks_61 Start: 38050, Stop: 37661, Start Num: 64

Candidate Starts for Wiks_61:

(Start: 64 @38050 has 53 MA's), (89, 37870), (96, 37840), (97, 37798),

Gene: Wilbur_56 Start: 38365, Stop: 37952, Start Num: 56

Candidate Starts for Wilbur_56:

(Start: 56 @38365 has 122 MA's), (83, 38218), (88, 38185), (89, 38173), (96, 38143),

Gene: Wile_55 Start: 38343, Stop: 37939, Start Num: 62

Candidate Starts for Wile_55:

(Start: 62 @38343 has 80 MA's), (80, 38253), (81, 38214), (89, 38160), (96, 38130),

Gene: Wilkins_55 Start: 38864, Stop: 38349, Start Num: 57

Candidate Starts for Wilkins_55:

(Start: 57 @38864 has 186 MA's), (Start: 78 @38783 has 2 MA's), (81, 38729), (91, 38666), (93, 38660), (96, 38645), (100, 38417), (101, 38399),

Gene: Wizard007_56 Start: 38373, Stop: 37960, Start Num: 56

Candidate Starts for Wizard007_56:

(Start: 56 @38373 has 122 MA's), (83, 38226), (88, 38193), (89, 38181), (96, 38151),

Gene: Wooldri_65 Start: 39033, Stop: 38626, Start Num: 60

Candidate Starts for Wooldri_65:

(Start: 60 @39033 has 80 MA's), (Start: 67 @39018 has 1 MA's), (Start: 72 @39006 has 1 MA's), (79, 38949), (90, 38844), (96, 38817),

Gene: WunderPhul_62 Start: 38048, Stop: 37659, Start Num: 64

Candidate Starts for WunderPhul_62:

(Start: 64 @38048 has 53 MA's), (89, 37868), (96, 37838), (97, 37796),

Gene: Xena_54 Start: 38309, Stop: 37905, Start Num: 62

Candidate Starts for Xena_54:

(Start: 62 @38309 has 80 MA's), (80, 38219), (81, 38180), (89, 38126), (96, 38096),

Gene: XianYue_58 Start: 38726, Stop: 38322, Start Num: 51

Candidate Starts for XianYue_58:

(Start: 51 @38726 has 49 MA's), (89, 38531), (96, 38501), (97, 38459),

Gene: Yecey3_61 Start: 38942, Stop: 38553, Start Num: 59

Candidate Starts for Yecey3_61:

(Start: 59 @38942 has 12 MA's), (86, 38780), (89, 38756), (96, 38726), (97, 38684),

Gene: YoSam321_56 Start: 38362, Stop: 37949, Start Num: 56

Candidate Starts for YoSam321_56:

(Start: 56 @38362 has 122 MA's), (83, 38215), (88, 38182), (89, 38170), (96, 38140),

Gene: Yogi_48 Start: 35573, Stop: 35067, Start Num: 29

Candidate Starts for Yogi_48:

(Start: 29 @35573 has 1 MA's), (Start: 61 @35477 has 35 MA's), (Start: 72 @35447 has 1 MA's), (76, 35411), (95, 35267), (96, 35258),

Gene: Yoncess_48 Start: 35260, Stop: 34850, Start Num: 61

Candidate Starts for Yoncess_48:

(Start: 29 @35356 has 1 MA's), (Start: 61 @35260 has 35 MA's), (Start: 72 @35230 has 1 MA's), (76, 35194), (95, 35050), (96, 35041),

Gene: Zaka_62 Start: 38050, Stop: 37661, Start Num: 64
Candidate Starts for Zaka_62:
(Start: 64 @38050 has 53 MA's), (89, 37870), (96, 37840), (97, 37798),

Gene: Zeeculate_54 Start: 40230, Stop: 39688, Start Num: 57
Candidate Starts for Zeeculate_54:
(Start: 57 @40230 has 186 MA's), (73, 40188), (Start: 78 @40149 has 2 MA's), (81, 40095), (91, 40032), (93, 40026), (96, 40011), (100, 39783), (101, 39765),

Gene: Zeigle_58 Start: 30795, Stop: 30403, Start Num: 52
Candidate Starts for Zeigle_58:
(Start: 52 @30795 has 7 MA's), (76, 30711), (77, 30708), (85, 30624), (88, 30600), (93, 30573),

Gene: Zephyr_56 Start: 39230, Stop: 38715, Start Num: 57
Candidate Starts for Zephyr_56:
(Start: 57 @39230 has 186 MA's), (Start: 78 @39149 has 2 MA's), (81, 39095), (91, 39032), (93, 39026), (96, 39011), (100, 38783), (101, 38765),

Gene: Zetzy_62 Start: 38684, Stop: 38277, Start Num: 60
Candidate Starts for Zetzy_62:
(Start: 60 @38684 has 80 MA's), (Start: 67 @38669 has 1 MA's), (Start: 72 @38657 has 1 MA's), (79, 38600), (90, 38495), (96, 38468),

Gene: Zeuska_54 Start: 39841, Stop: 39326, Start Num: 57
Candidate Starts for Zeuska_54:
(Start: 57 @39841 has 186 MA's), (Start: 78 @39760 has 2 MA's), (81, 39706), (91, 39643), (93, 39637), (96, 39622), (100, 39394), (101, 39376),

Gene: Zimmer_57 Start: 40099, Stop: 39713, Start Num: 62
Candidate Starts for Zimmer_57:
(Start: 62 @40099 has 80 MA's), (86, 39943), (89, 39919), (96, 39886),

Gene: Zolita_56 Start: 39509, Stop: 39099, Start Num: 62
Candidate Starts for Zolita_56:
(Start: 62 @39509 has 80 MA's), (82, 39374), (87, 39347), (88, 39338), (96, 39296),

Gene: ZooBear_59 Start: 31216, Stop: 30827, Start Num: 53
Candidate Starts for ZooBear_59:
(Start: 53 @31216 has 21 MA's), (Start: 72 @31171 has 1 MA's), (77, 31132), (81, 31066), (85, 31048), (88, 31024), (93, 30997),

Gene: Zulu_63 Start: 38428, Stop: 38039, Start Num: 64
Candidate Starts for Zulu_63:
(Start: 64 @38428 has 53 MA's), (89, 38248), (96, 38218), (97, 38176),