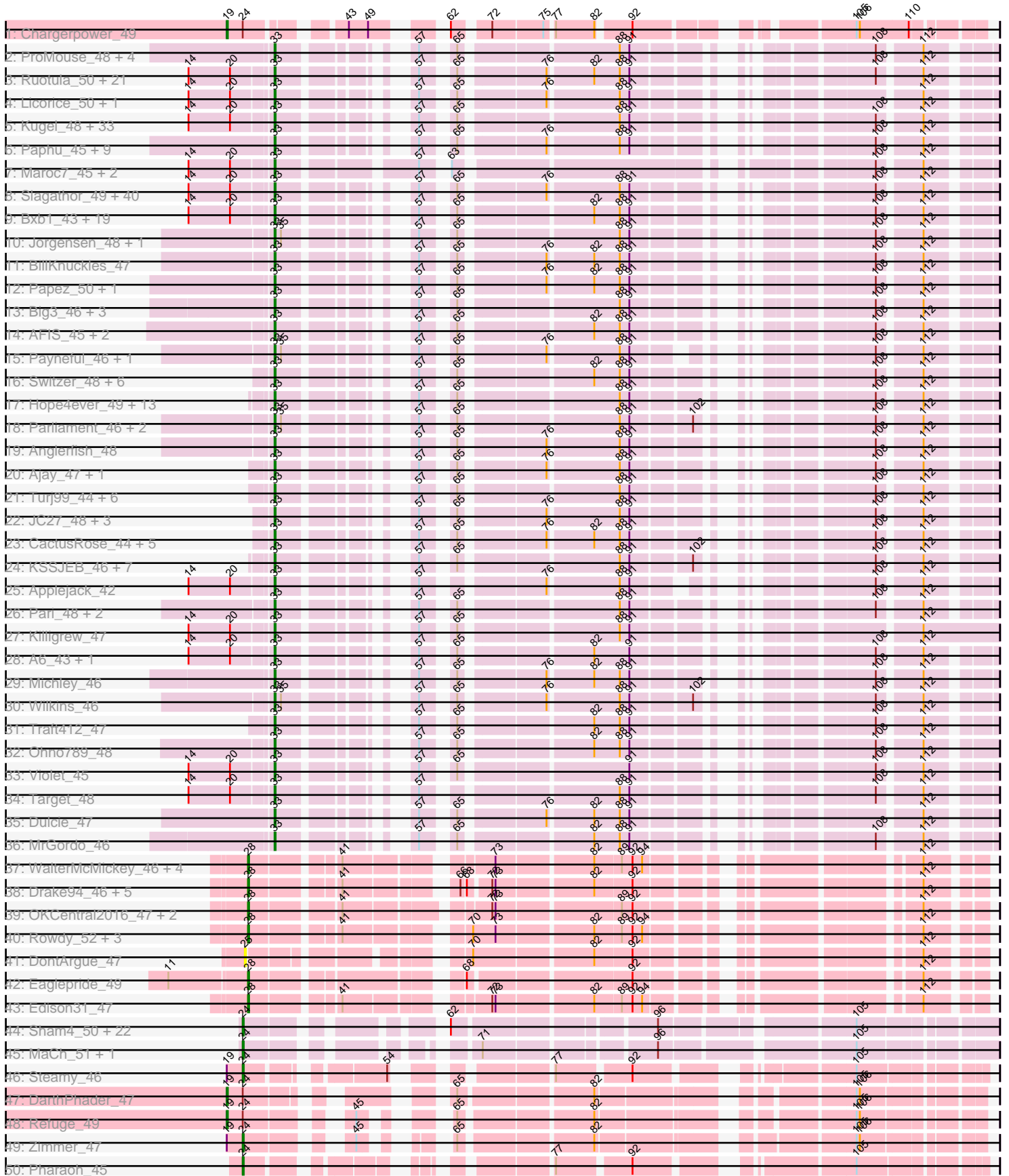
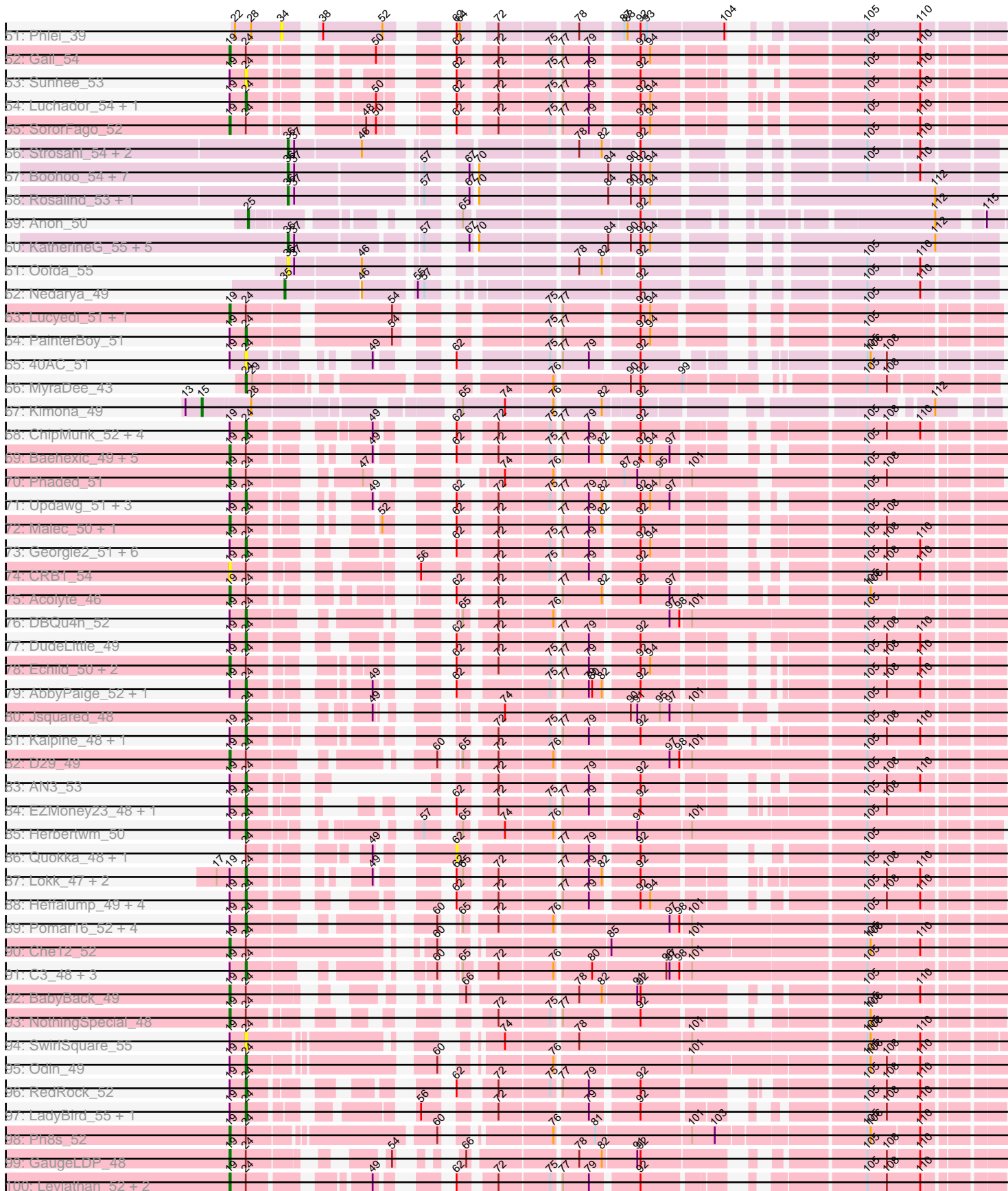


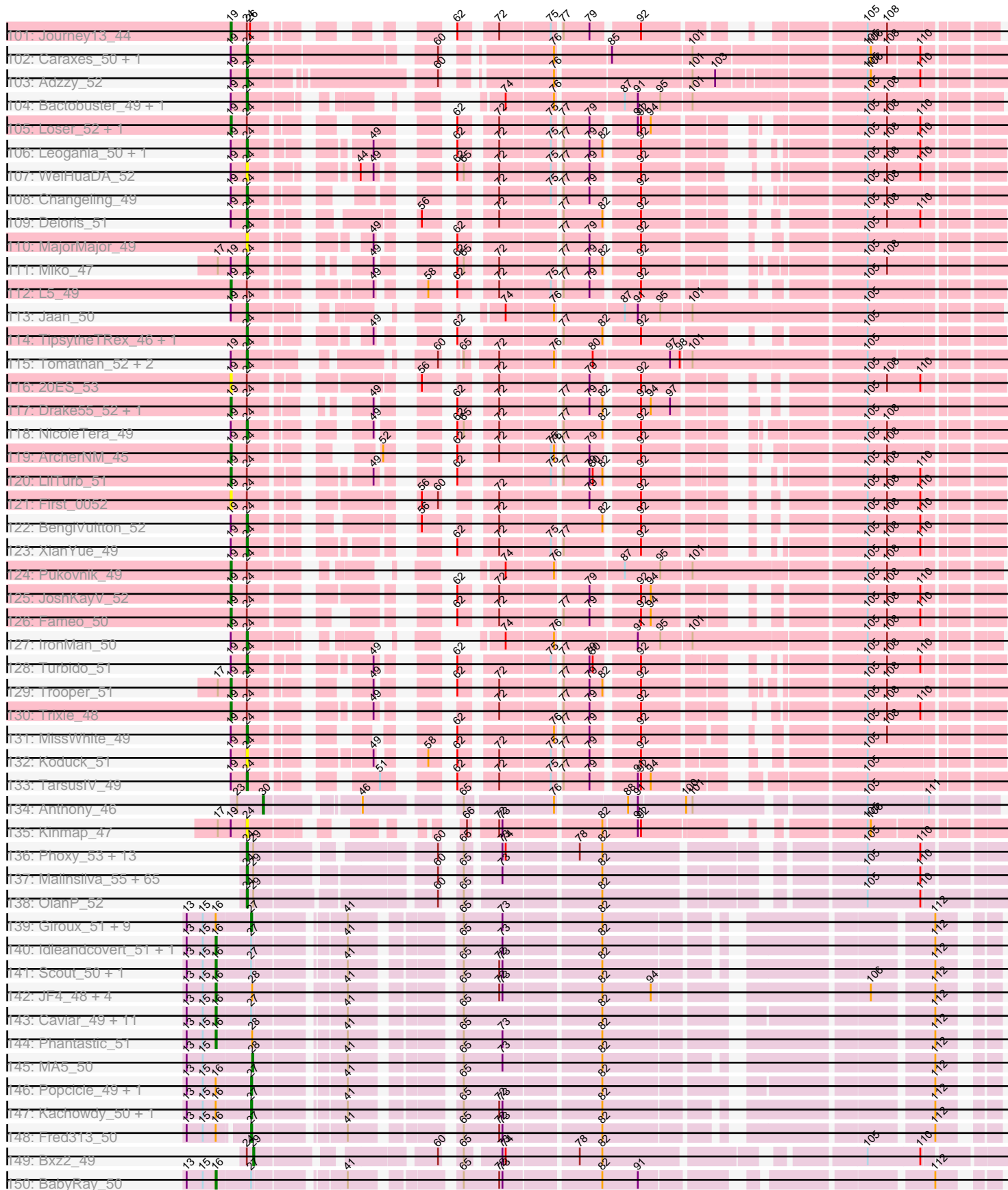
Pham 193614



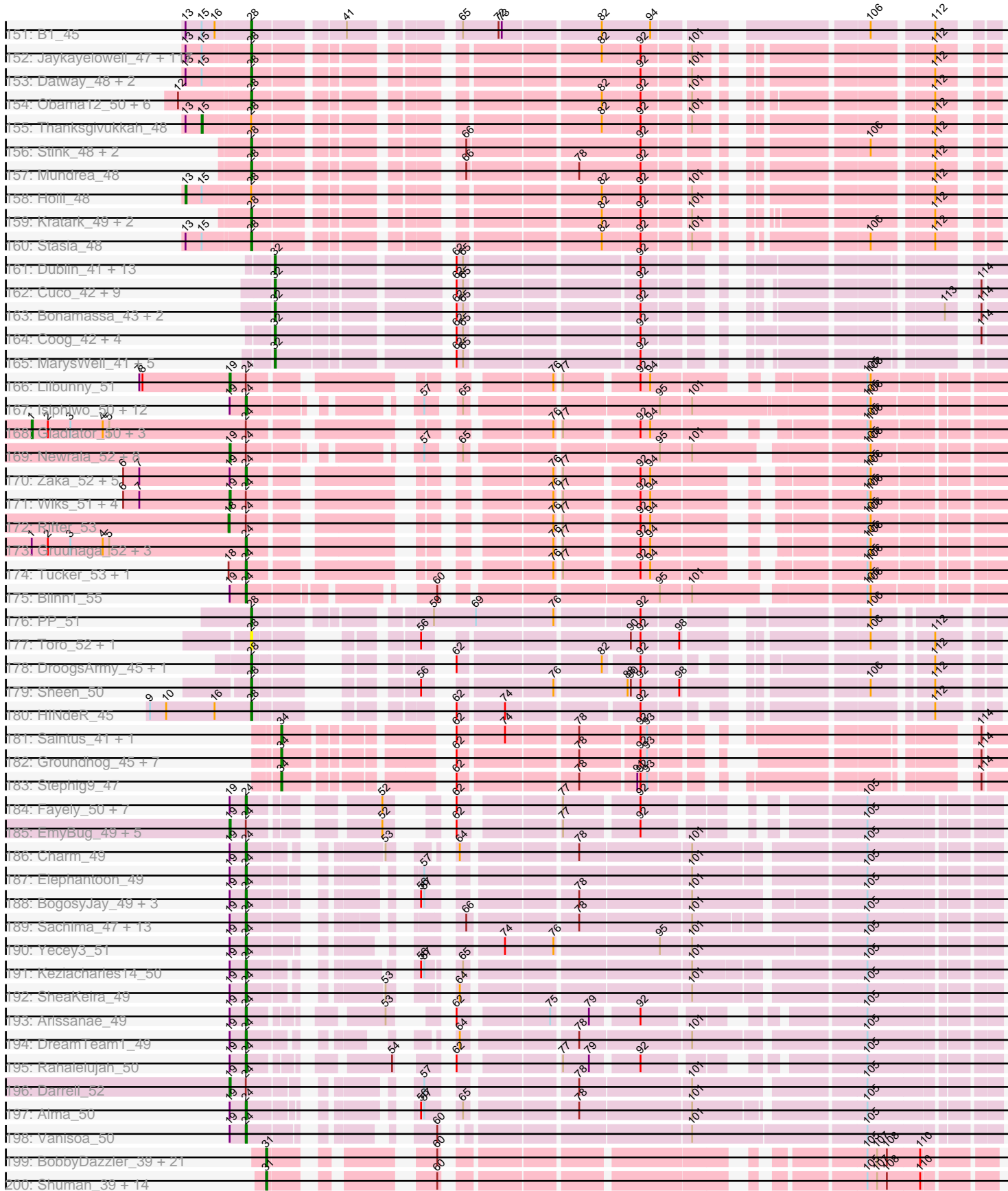
Pham 193614



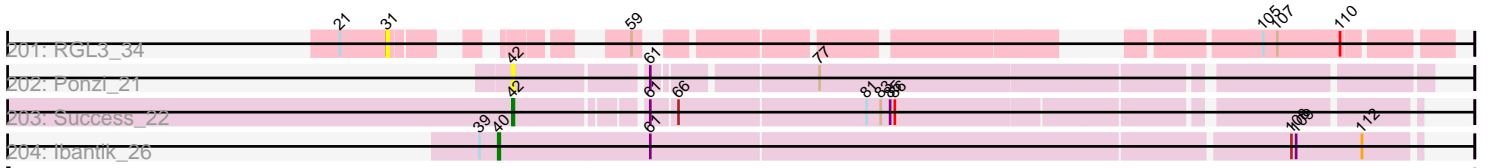
Pham 193614



Pham 193614



Pham 193614



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 193614 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193614 has 867 members, 61 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_49
- Track 2 : ProMouse_48, Barriga_48, Sunshine924_48, Espresso_47, Nhonho_48
- Track 3 : Ruotula_50, Inyanga_44, Doom_47, Rufus_48, PacerPaul_47, Agaliana_43, Mkhusele_46, ILeeKay_51, Aeneas_49, Rubeus_47, Francis47_46, Gompeii16_46, PhrostyMug_46, Bircsak_46, Mule_44, Smairt_49, Marge_47, Perseus_47, Crispicous1_45, JackSparrow_48, Petruccio_47, Marsha_47
- Track 4 : Licorice_50, BigPaolini_47
- Track 5 : Kugel_48, Seanderson_49, Alvin_47, Lesedi_44, Pippin_49, FrogHopper_45, LilBib_47, Monet_50, ShortQueendom_41, Beatrix_47, Niza_50, Hermia_48, Thor_45, Greg_49, Bexan_46, Makemake_47, Forsytheast_47, KBG_49, Fajezeel_49, Zeeculate_45, StrongArm_47, Corvo_48, Alsfro_51, Sagefire_50, Chanagan_44, Moose_47, Scowl_48, MPlant7149_46, MaryBeth_47, SarFire_45, SwissCheese_49, Ringer_48, Bruns_46, MetalQZJ_46
- Track 6 : Paphu_45, Sibs6_48, Blue_47, Burton_47, Rutherford_49, Molly_48, Carlyle_46, PascalRango_48, Petp2012_48, Museum_48
- Track 7 : Maroc7_45, Fascinus_43, Gyzlar_43
- Track 8 : Slagathor_49, Bigfoot_43, PattyP_48, BigMau_48, Abrogate_460, Edtherson_47, Kenmech_51, RidgeCB_47, Kykar_47, Watermelon_48, TwoPeat_48, Rohr_48, Bob3_45, Arlo_45, Treddle_48, KyMonks1A_49, Rajelicia_48, Ciao_47, Swole_48, JuliaChild_48, Lopton_48, TheloniousMonk_48, Pepe_44, Tripl3t_47, Arcanine_48, Jerm2_48, Zeuska_46, HermioneGrange_47, Paraselene_45, Mryolo_45, PSullivan_47, Dussy_49, Marcell_45, Tote_43, Hami1_41, Abbysshoes_50, BPbiebs31_48, Rhynn_46, Pita2_50, Acme_49, StewieG_46
- Track 9 : Bxb1_43, Sandaddy_46, Zephyr_47, GrecoEtereo_48, Sanya_45, Jasper_49, Solon_46, DD5_46, HarryOW_46, Pinto_47, QTRlifeCrisis_47, DrFeelGood_45, Sorpresa_46, ConceptII_49, NEHalo_45, Sumter_44, Dreamboat_49, GageAP_48, Lockley_46, PherrisBueller_47
- Track 10 : Jorgensen_48, Norz_47
- Track 11 : BillKnuckles_47
- Track 12 : Papez_50, Euphoria_45
- Track 13 : Big3_46, Dexes_47, Pelly_46, Fushigi_45
- Track 14 : AFIS_45, BaconJack_50, SpikeBT_47
- Track 15 : Payneful_46, Marchy_41
- Track 16 : Switzer_48, U2_46, BeesKnees_48, Magnar_46, Kanely_48, Manatee_48, Gandalf20_49
- Track 17 : Hope4ever_49, Squee_47, Ichabod_49, Trouble_49, Fenn_49, Homines_39, Eyeball_48, BluSpix_45, McGuire_48, Naira_49, Nerujay_49,

Smeagol_48, Atkinbua_49, IgnatiusPatJac_47

- Track 18 : Parliament_46, Teodoridan_45, Topgun_46
- Track 19 : Anglerfish_48
- Track 20 : Ajay_47, Peterson_50
- Track 21 : Turj99_44, Buttons_45, Magnito_44, SkiPole_50, Adahisdi_46, Oogway_44, STLscum_48
- Track 22 : JC27_48, Briton15_49, Ashballer_48, Wheeler_47
- Track 23 : CactusRose_44, Cueylyss_48, Graduation_50, Gwendoluna_50, HanShotFirst_46, Bones_47
- Track 24 : KSSJEB_46, Snazzy_45, DreamCatcher_50, Lamina13_47, Seabiscuit_49, Tasp14_48, PinkPlastic_46, Dynamix_48
- Track 25 : Applejack_42
- Track 26 : Pari_48, Altman_49, Bethlehem_47
- Track 27 : Killigrew_47
- Track 28 : A6_43, BK1_43
- Track 29 : Michley_46
- Track 30 : Wilkins_46
- Track 31 : Traft412_47
- Track 32 : Ohno789_48
- Track 33 : Violet_45
- Track 34 : Target_48
- Track 35 : Dulcie_47
- Track 36 : MrGordo_46
- Track 37 : WalterMcMickey_46, Rebeuca_48, Twister_46, Topanga_46, Kristoff_48
- Track 38 : Drake94_46, Trike_46, Poompha_47, Severus_46, PeaceMeal1_46, KittenMittens_45
- Track 39 : OKCentral2016_47, Goose_48, Chupacabra_47
- Track 40 : Rowdy_52, Shapes_52, RhynO_49, DustyMartin_52
- Track 41 : DontArgue_47
- Track 42 : Eaglepride_49
- Track 43 : Edison31_47
- Track 44 : Sham4_50, Orange_50, Gilberta_51, Snape_50, Mabel_50, Jabith_51, Et2Brutus_49, Flaverint_51, Fibonacci_50, Bud_50, Mulciber_50, Insomnia_51, Petersenfast_49, Timothy_50, Joselito_51, TinyTimmy_50, Hutc2_50, Ebony_50, Bowtie_51, Munch_51, Salz_49, Aneem_51, Lucivia_51
- Track 45 : MaCh_51, Bachome_52
- Track 46 : Steamy_46
- Track 47 : DARTHPhader_47
- Track 48 : Refuge_49
- Track 49 : Zimmer_47
- Track 50 : Pharaoh_45
- Track 51 : Phlei_39
- Track 52 : Gail_54
- Track 53 : Sunhee_53
- Track 54 : Luchador_54, Jeeves_54
- Track 55 : SororFago_52
- Track 56 : Strosahl_54, Waits_54, Remus_54
- Track 57 : Boohoo_54, LastResort_53, JSwag_53, Nebulosus_53, Looper_54, ReMo_53, Epsocamisio_52, Anaysia_54
- Track 58 : Rosalind_53, ShayRa_55
- Track 59 : Anon_50
- Track 60 : KatherineG_55, MinecraftSteve_55, DekHockey33_54, Soups_55, Switzerland_54, Battleship_56

- Track 61 : Oofda_55
- Track 62 : Nedarya_49
- Track 63 : Lucyedi_51, EagleEye_52
- Track 64 : PainterBoy_51
- Track 65 : 40AC_51
- Track 66 : MyraDee_43
- Track 67 : Kimona_49
- Track 68 : ChipMunk_52, Jerm_52, Smeagan_53, Dignity_52, KingCyrus_52
- Track 69 : Baehexic_49, NaSiaTalie_50, Flare16_50, WideWale_51, MiculUcigas_50, Centaur_51
- Track 70 : Phaded_51
- Track 71 : Updawg_51, Bugsy_52, Equemioh13_51, HarryHoudini_51
- Track 72 : Malec_50, Larenn_49
- Track 73 : Georgie2_51, FiringLine_50, Power_49, Crucio_50, SnapTap_50, QueenBeesly_50, SweetiePie_50
- Track 74 : CRB1_54
- Track 75 : Acolyte_46
- Track 76 : DBQu4n_52
- Track 77 : DudeLittle_49
- Track 78 : Echild_50, SemperFi_51, Benvolio_47
- Track 79 : AbbyPaige_52, Whabigail7_51
- Track 80 : Jsquared_48
- Track 81 : Kalpine_48, Colin_50
- Track 82 : D29_49
- Track 83 : AN3_53
- Track 84 : EZMoney23_48, Iwokeuplikedis_53
- Track 85 : Herbertwm_50
- Track 86 : Quokka_48, Bradman_49
- Track 87 : Lokk_47, Rachaly_49, BobSwaget_46
- Track 88 : Heffalump_49, Retro23_51, QueenB2_49, Anselm_51, Dalmatian_51
- Track 89 : Pomar16_52, Naji_52, Travvers_52, D32_51, StarStuff_52
- Track 90 : Che12_52
- Track 91 : C3_48, VC3_53, AN9_53, ANI8_53
- Track 92 : BabyBack_49
- Track 93 : NothingSpecial_48
- Track 94 : SwirlSquare_55
- Track 95 : Odin_49
- Track 96 : RedRock_52
- Track 97 : LadyBird_55, VA6_51
- Track 98 : Ph8s_52
- Track 99 : GaugeLDP_48
- Track 100 : Leviathan_52, EvilGenius_52, Agape74_52
- Track 101 : Journey13_44
- Track 102 : Caraxes_50, Superchunk_49
- Track 103 : Adzzy_52
- Track 104 : Bactobuster_49, Landor_50
- Track 105 : Loser_52, AnnaL29_52
- Track 106 : Leogania_50, BiancaTri92_50
- Track 107 : WeiHuaDA_52
- Track 108 : Changeling_49
- Track 109 : Deloris_51
- Track 110 : MajorMajor_49
- Track 111 : Miko_47

- Track 112 : L5_49
- Track 113 : Jaan_50
- Track 114 : TipsytheTRex_46, Serenity_50
- Track 115 : Tomathan_52, Kerberos_52, Duplo_52
- Track 116 : 20ES_53
- Track 117 : Drake55_52, Piro94_50
- Track 118 : NicoleTera_49
- Track 119 : ArcherNM_45
- Track 120 : LilTurb_51
- Track 121 : First_0052
- Track 122 : BengiVuitton_52
- Track 123 : XianYue_49
- Track 124 : Pukovnik_49
- Track 125 : JoshKayV_52
- Track 126 : Fameo_50
- Track 127 : IronMan_50
- Track 128 : Turbido_51
- Track 129 : Trooper_51
- Track 130 : Trixie_48
- Track 131 : MissWhite_49
- Track 132 : Koduck_51
- Track 133 : TarsusIV_49
- Track 134 : Anthony_46
- Track 135 : Kinmap_47
- Track 136 : Phoxy_53, Spike509_53, LarryKay_53, Daishi_52, KADY_53, HashRod_54, Misomonster_54, Farber_53, AgronaGT15_52, Methuselah_49, Rummer_52, BuzzBuzz_51, Louie6_52, Soshari_55
- Track 137 : Malinsilva_55, Hercules11_53, Wooldri_55, SoilDragon_53, Fernando_53, Aglet_54, LBerry_54, MadMarie_53, Watson_53, Snickers_53, Grub_53, Beauxregard13_53, Anubis_56, LugYA_56, EpicPhail_54, BreSam8_53, PGHhamlin_55, PotatoSplit_55, Ollie_53, Phoebe_54, Zetzy_52, P28Green_54, Reba_53, Sabia_53, JenCasNa_54, SoYo_53, Lilith_54, StepMih_53, GingkoMaracino_53, MuchMore_56, MoneyMay_53, Manu_53, HaveUMetTed_54, Marie_53, Sabinator_52, Dieselweasel_54, DaHudson_53, Microwolf_53, Heliosoles_52, Taurus_54, JHC117_53, Grif_53, Colbster_53, PurpleHaze_53, PhishRPhriends_51, Kalb97_54, JeppNRM_54, MarQuardt_53, Kalnoky_54, Pembroke_53, Jobu08_52, Grum1_53, ACFishhook_52, AugsMagnumOpus_56, Penny1_54, Marius_54, Groupthink_54, Pawn_53, Gemma_52, GtownJaz_53, Phranny_54, Tiffany_53, Stagni_53, Mainiac_53, Cullens_53, Vix_53
- Track 138 : OlanP_52
- Track 139 : Giroux_51, DropBear_50, Chiqui_48, Pistachio_52, TNguyen7_51, SaturnRing_51, BabyJohn_48, Bugatti_51, BlueBird_52, Marchesa_50
- Track 140 : Idleandcovert_51, Puppy_52
- Track 141 : Scout_50, Heathen_50
- Track 142 : JF4_48, JF2_48, MK4_50, Isca_49, Rockstar_50
- Track 143 : Caviar_49, Pocahontas_49, Noella_49, Margo_49, QuinnKiro_48, Norbert_48, Veracruz_48, Lambert1_49, ResDef_49, Todacoro_49, Texage_48, Hookmount_49
- Track 144 : Phantastic_51
- Track 145 : MA5_50
- Track 146 : Popcicle_49, Panamaxus_47
- Track 147 : Kachowdy_50, HeIDan_50
- Track 148 : Fred313_50

- Track 149 : Bxz2_49
- Track 150 : BabyRay_50
- Track 151 : B1_45
- Track 152 : Jaykayelowell_47, Morpher26_48, HamSlice_48, Bartimeaus_49, TroyPia_50, Relief_48, Wander_49, Blackmoor_49, Clarenza_48, Anyyong_49, Eurydice_50, Cici_48, Baby16_49, Tinybot_48, LappelDuVide_49, Caelakin_49, Broseidon_49, Cocoaberry_49, Perplexer_48, Gadost_49, Avle17_49, NotAPhaseMom_49, CentreCat_49, Cindaradix_46, BellusTerra_50, Lemur_49, Bruiser_48, JetBlade_49, Houdini22_49, Citius_49, Iceman_49, DirtyDunning_48, Achebe_47, Connomayer_49, Ohfah_50, Pumbaa_49, Badger_47, BubbleTrouble_48, Kingmustik0402_49, TinaFeyge_49, Kremtemulon_49, Koreni_48, Florean_49, LeoAvram_49, PeterPeter_49, Roosevelt_48, MeeZee_49, Spino_48, Pipcraft_47, Dhanush_49, Flux_49, Polymorphads_50, Ruin_49, NorthStar_48, Nebs_50, Rosa24_48, Alberto7_50, KFPoly_48, Lunsford_50, Morrow_50, Romney_49, Chaph_49, Camperdownii_47, Scamp_49, AbbysRanger_48, Deano_48, Backyardigan_47, Iracema64_50, Peaches_49, Maxo_50, Nyxis_49, LittleGuy_49, Eapen_49, PetiteSangsue_48, Sparxx_50, Phontbonne_49, Shaka_49, Kampy_49, Kyee_49, Funston_48, LochMonster_50, OKaNui_49, ICleared_49, Melvin_51, Wilbur_49, Ulysses_48, Mazhar510_49, JoongJeon_48, TygerBlood_49, Millski_48, Phelipe_50, LittleB_49, Medusa_49, Phacado_49, Druantia_49, Xena_47, Sabertooth_49, Palestino_48, Wizard007_49, Skipitt_48, Bumblebee11_47, Burger_47, Eros_49, Nemo27_49, Albee_49, Wile_48, Cintron_48, Abdiel_49, Bombshell_49, Eris_48, Maverick_49, Eagle_49, Katalie136_48, Taquarus_49, Commander_49, Lorenzo_49, TiroTheta9_49, YoSam321_49
- Track 153 : Datway_48, Noelle_49, Shygu2_48
- Track 154 : Obama12_50, LHTSCC_51, BangNhom_50, Cerulean_50, ChampagnePapi_51, Happiness_48, SheldonCooper_51
- Track 155 : Thanksgivukkah_48
- Track 156 : Stink_48, AvatarAhPeg_47, Miramae_47
- Track 157 : Mundrea_48
- Track 158 : Holli_48
- Track 159 : Kratak_49, Phighter1804_49, Arturo_48
- Track 160 : Stasia_48
- Track 161 : Dublin_41, Conspiracy_42, Naca_44, EITiger69_44, Scorpia_46, Airmid_43, Tiger_41, Jovo_42, PetterN_46, AgentM_41, Lev2_42, Chadwick_46, Benedict_45, ForGetIt_42
- Track 162 : Cuco_42, Aragog_41, Discoknowium_41, Milcery_43, Tarynearal_41, Micasa_44, George_42, Phlorence_41, Archetta_42, Swirley_45
- Track 163 : Bonamassa_43, HuhtaEnerson15_43, LittleCherry_43
- Track 164 : Coog_42, Midas2_42, Jabiru_43, UnionJack_43, PickleBack_42
- Track 165 : MarysWell_41, Ghoulboy_44, Bluefalcon_41, SydNat_44, Theia_40, Zolita_43
- Track 166 : Lilbunny_51
- Track 167 : Isiphiwo_50, Dorothea_52, Chartreuse_51, BABullseye_46, DaVinci_51, SuperCallie99_51, McFly_52, Candra_52, Neeharika16_51, Kazan_53, VohminGhazi_52, EricB_52, Pmask_52
- Track 168 : Gladiator_50, Hammer_53, Blue7_54, Artemis2UCLA_52
- Track 169 : Newrala_52, Jordennis_52, JewelBug_53, Kipper29_52, Hoot_47, SmellyB_52, GreedyLawyer_52, Cookiedough_52, SuperAwesome_52
- Track 170 : Zaka_52, Yokurt_52, WunderPhul_52, ToneTone_49, Helmet_54, Garak_54
- Track 171 : Wiks_51, Jeffabunny_52, Indra_55, Zulu_53, Hexamo_52

- Track 172 : Rifter_53
- Track 173 : Gruunaga_52, Koko_53, Roksolana_53, CloudWang3_52
- Track 174 : Tucker_53, Priamo_54
- Track 175 : Blinn1_55
- Track 176 : PP_51
- Track 177 : Toro_52, FlyCatcher_54
- Track 178 : DroogsArmy_45, Timshel_47
- Track 179 : Sheen_50
- Track 180 : HINdeR_45
- Track 181 : Saintus_41, NearlyHeadless_46
- Track 182 : Groundhog_45, Roary_47, Astro_46, Smeadley_47, Dixon_46, Phillis_48, Expelliarmus_46, Danforth_46
- Track 183 : Stephig9_47
- Track 184 : Fayely_50, Onglai_48, Phaeder_50, Eidsmoe_50, Tubs_50, Spouty_50, Qobbit_50, Priya_50
- Track 185 : EmyBug_49, Catalina_51, Myxus_50, PackMan_49, HortumSL17_50, Aliter_50
- Track 186 : Charm_49
- Track 187 : Elephantoon_49
- Track 188 : BogosyJay_49, Maminiaina_49, LoneWolf_51, Toaka_50
- Track 189 : Sachima_47, Ugenie5_47, Conquerage_50, Phonnegut_50, EdogawaKiddo_48, ExplosioNervosa_50, Jiawan_48, RyeScarlet_51, Lilleskat_48, Beemo_50, Pioneer_50, Hanray_48, Scherzo_50, Halex_49
- Track 190 : Yecey3_51
- Track 191 : Keziacharles14_50
- Track 192 : SheaKeira_49
- Track 193 : Arissanae_49
- Track 194 : DreamTeam1_49
- Track 195 : Rahalelujah_50
- Track 196 : Darrell_52
- Track 197 : Alma_50
- Track 198 : Vanisoa_50
- Track 199 : BobbyDazzler_39, PhailMary_38, Bradshaw_39, Partridge_39, Lillie_39, Gollum_39, Yogi_39, Rhodalysa_39, Krishelle_39, Rasputin_39, Bonanza_39, RexFury_39, RER2_32, Swann_39, CosmicSans_39, Hiro_39, Phrankenstein_39, TWAMP_39, Alpacados_38, StCroix_39, Naiad_39, Alatin_39
- Track 200 : Shuman_39, Bryce_39, Natosaleda_39, AppleCloud_37, Erik_39, Nancinator_39, Jester_39, Harlequin_39, AngryOrchard_37, Espica_39, Belenaria_39, UhSalsa_39, Takoda_39, Yoncess_39, Dinger_39
- Track 201 : RGL3_34
- Track 202 : Ponzi_21
- Track 203 : Success_22
- Track 204 : Ibantik_26

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

The start number called the most often in the published annotations is 24, it was called in 227 of the 806 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 40AC_51, ACFishhook_52, AN3_53, AN9_53, ANI8_53, AbbyPaige_52, Adzzy_52, Aglet_54, AgronaGT15_52, Alma_50, Aneem_51, Anselm_51, Anubis_56, Arissanae_49, AugsMagnumOpus_56, BABullseye_46, Bachome_52, Bactobuster_49, Beauxregard13_53, Beemo_50, BengiVuitton_52, BiancaTri92_50, Blinn1_55, BobSwaget_46, BogosyJay_49, Bowtie_51, BreSam8_53, Bud_50, Buggy_52, BuzzBuzz_51, C3_48, Candra_52, Caraxes_50, Changeling_49, Charm_49, Chartreuse_51, ChipMunk_52, CloudWang3_52, Colbster_53, Colin_50, Conquerage_50, Crucio_50, Cullens_53, D32_51, DBQu4n_52, DaHudson_53, DaVinci_51, Daishi_52, Dalmatian_51, Deloris_51, Dieselweasel_54, Dignity_52, Dorothea_52, DreamTeam1_49, DudeLittle_49, Duplo_52, EZMoney23_48, Ebony_50, EdogawaKiddo_48, Eidsmoe_50, Elephantoon_49, EpicPhail_54, Equemioh13_51, EricB_52, Et2Brutus_49, ExplosioNervosa_50, Farber_53, Fayely_50, Fernando_53, Fibonacci_50, FiringLine_50, Flaverint_51, Garak_54, Gemma_52, Georgie2_51, Gilberta_51, GingkoMaracino_53, Grif_53, Groupthink_54, Grub_53, Grum1_53, Gruunaga_52, GtownJaz_53, Hanray_48, HarryHoudini_51, HashRod_54, HaveUMetTed_54, Heffalump_49, Heliosoles_52, Helmet_54, Herbertwm_50, Hercules11_53, Horex_49, Hutc2_50, Insomnia_51, IronMan_50, Isiphiwo_50, Iwokeuplikedis_53, JHC117_53, Jaan_50, Jabith_51, Jeeves_54, JenCasNa_54, JeppNRM_54, Jerm_52, Jiawan_48, Jobu08_52, Joselito_51, Jsquared_48, KADY_53, Kalb97_54, Kalnoky_54, Kalpine_48, Kazan_53, Kerberos_52, Keziacharles14_50, KingCyrus_52, Kinmap_47, Koduck_51, Koko_53, LBerry_54, LadyBird_55, Landor_50, LarryKay_53, Leogania_50, Lilith_54, Lilleskat_48, Lokk_47, LoneWolf_51, Louie6_52, Luchador_54, Lucivia_51, LugYA_56, MaCh_51, Mabel_50, MadMarie_53, Mainiac_53, MajorMajor_49, Malinsilva_55, Maminiaina_49, Manu_53, MarQuardt_53, Marie_53, Marius_54, McFly_52, Methuselah_49, Microwolf_53, Miko_47, Misomonster_54, MissWhite_49, MoneyMay_53, MuchMore_56, Mulciber_50, Munch_51, MyraDee_43, Naji_52, Neeharika16_51, NicoleTera_49, Odin_49, OlanP_52, Ollie_53, Onglai_48, Orange_50, P28Green_54, PGHhamlin_55, PainterBoy_51, Pawn_53, Pembroke_53, Penny1_54, Petersenfast_49, Phaeder_50, Pharaoh_45, PhishRPhriends_51, Phoebe_54, Phonnegut_50, Phoxy_53, Phranny_54, Pioneer_50, Pmask_52, Pomar16_52, PotatoSplit_55, Power_49, Priamo_54, Priya_50, PurpleHaze_53, Qobbit_50, QueenB2_49, QueenBeesly_50, Rachaly_49, Rahalelujah_50, Reba_53, RedRock_52, Retro23_51, Roksolana_53, Rummer_52, RyeScarlet_51, Sabia_53, Sabinator_52, Sachima_47, Salz_49, Scherzo_50, Serenity_50, Sham4_50, SheaKeira_49, Smeagan_53, SnapTap_50, Snape_50, Snickers_53, SoYo_53, SoilDragon_53, Soshari_55, Spike509_53, Spouty_50, Stagni_53, StarStuff_52, Steamy_46, StepMih_53, Sunhee_53, SuperCallie99_51, Superchunk_49, SweetiePie_50, SwirlSquare_55, TarsusIV_49, Taurus_54, Tiffany_53, Timothy_50, TinyTimmy_50, TipsytheTRex_46, Toaka_50, Tomathan_52, ToneTone_49, Travvers_52, Tubs_50, Tucker_53, Turbido_51, Ugenie5_47, Updawg_51, VA6_51, VC3_53, Vanisoa_50, Vix_53, VohminGhazi_52, Watson_53, WeiHuaDA_52, Whabigail7_51, Wooldri_55, WunderPhul_52, XianYue_49, Yecey3_51, Yokurt_52, Zaka_52, Zetzy_52, Zimmer_47,

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

- 20ES_53, Acolyte_46, Agape74_52, Aliter_50, AnnaL29_52, ArcherNM_45, Artemis2UCLA_52, BabyBack_49, Baehexic_49, Benvolio_47, Blue7_54, Bradman_49, Bxz2_49, CRB1_54, Catalina_51, Centaur_51, Chargerpower_49, Che12_52, Cookiedough_52, D29_49, Darrell_52, DarthPhader_47, Drake55_52, EagleEye_52, Echild_50, EmyBug_49, EvilGenius_52, Fameo_50, First_0052, Flare16_50, Gail_54, GaugeLDP_48, Gladiator_50, GreedyLawyer_52, Hammer_53,

Hexamo_52, Hoot_47, HortumSL17_50, Indra_55, Jeffabunny_52, JewelBug_53, Jordennis_52, JoshKayV_52, Journey13_44, Kipper29_52, L5_49, Larenn_49, Leviathan_52, LilTurb_51, Lilbunny_51, Loser_52, Lucyedi_51, Malec_50, MiculUcigas_50, Myxus_50, NaSiaTalie_50, Newrala_52, NothingSpecial_48, PackMan_49, Ph8s_52, Phaded_51, Piro94_50, Pukovnik_49, Quokka_48, Refuge_49, Rifter_53, SemperFi_51, SmellyB_52, SororFago_52, SuperAwesome_52, Trixie_48, Trooper_51, WideWale_51, Wiks_51, Zulu_53,

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

- A6_43, AFIS_45, AbbysRanger_48, Abbysshoes_50, Abdiel_49, Abrogate_460, Achebe_47, Acme_49, Adahisdi_46, Aeneas_49, Agaliana_43, AgentM_41, Airmid_43, Ajay_47, Alatin_39, Albee_49, Alberto7_50, Alpacados_38, Alsfro_51, Altman_49, Alvin_47, Anaysia_54, Anglerfish_48, AngryOrchard_37, Annyong_49, Anon_50, Anthony_46, AppleCloud_37, Applejack_42, Aragog_41, Arcanine_48, Archetta_42, Arlo_45, Arturo_48, Ashballer_48, Astro_46, Atkinbua_49, AvatarAhPeg_47, Avle17_49, B1_45, BK1_43, BPBiebs31_48, Baby16_49, BabyJohn_48, BabyRay_50, Backyardigan_47, BaconJack_50, Badger_47, BangNhom_50, Barriga_48, Bartimeaus_49, Battleship_56, Beatrix_47, BeesKnees_48, Belenaria_39, BellusTerra_50, Benedict_45, Bethlehem_47, Bexan_46, Big3_46, BigMau_48, BigPaolini_47, Bigfoot_43, BillKnuckles_47, Bircsak_46, Blackmoor_49, BluSpix_45, BlueBird_52, Blue_47, Bluefalcon_41, Bob3_45, BobbyDazzler_39, Bombshell_49, Bonamassa_43, Bonanza_39, Bones_47, Boohoo_54, Bradshaw_39, Briton15_49, Broseidon_49, Bruiser_48, Brunns_46, Bryce_39, BubbleTrouble_48, Bugatti_51, Bumblebee11_47, Burger_47, Burton_47, Buttons_45, Bxb1_43, CactusRose_44, Caelakin_49, Camperdownii_47, Carlyle_46, Caviar_49, CentreCat_49, Cerulean_50, Chadwick_46, ChampagnePapi_51, Chanagan_44, Chaph_49, Chiqui_48, Chupacabra_47, Ciao_47, Cici_48, Cindaradix_46, Cintron_48, Citius_49, Clarenza_48, Cocoberry_49, Commander_49, ConceptII_49, Connomayer_49, Conspiracy_42, Coog_42, Corvo_48, CosmicSans_39, Crispicous1_45, Cuco_42, Cueylyss_48, DD5_46, Danforth_46, Datway_48, Deano_48, DekHockey33_54, Dexes_47, Dhanush_49, Dinger_39, DirtyDunning_48, Discoknowium_41, Dixon_46, DontArgue_47, Doom_47, DrFeelGood_45, Drake94_46, DreamCatcher_50, Dreamboat_49, DroogsArmy_45, DropBear_50, Druantia_49, Dublin_41, Dulcie_47, Dussy_49, DustyMartin_52, Dynamix_48, Eagle_49, Eaglepride_49, Eapen_49, Edison31_47, Edtherson_47, ElTiger69_44, Epsocamisio_52, Erik_39, Eris_48, Eros_49, Espica_39, Espresso_47, Euphoria_45, Eurydice_50, Expelliarmus_46, Eyeball_48, Fajezeel_49, Fascinus_43, Fenn_49, Florean_49, Flux_49, FlyCatcher_54, ForGetIt_42, Forsytheast_47, Francis47_46, Fred313_50, Froghopper_45, Funston_48, Fushigi_45, Gadost_49, GageAP_48, Gandalf20_49, George_42, Ghoulboy_44, Giroux_51, Gollum_39, Gompeii16_46, Goose_48, Graduation_50, GrecoEtereo_48, Greg_49, Groundhog_45, Gwendoluna_50, Gyzlar_43, HINdeR_45, HamSlice_48, Hami1_41, HanShotFirst_46, Happiness_48, Harlequin_39, HarryOW_46, Heathen_50, HelDan_50, Hermia_48, HermioneGrange_47, Hiro_39, Holli_48, Homines_39, Hookmount_49, Hope4ever_49, Houdini22_49, HuhtaEnerson15_43, ICleared_49, ILeeKay_51, Ibantik_26, Iceman_49, Ichabod_49, Idleandcovert_51, IgnatiusPatJac_47, Inyanga_44, Iracema64_50, Isca_49, JC27_48, JF2_48, JF4_48, JSwag_53, Jabiru_43, JackSparrow_48, Jasper_49, Jaykayelowell_47, Jerm2_48, Jester_39, JetBlade_49, JoongJeon_48, Jorgensen_48, Jovo_42, JuliaChild_48, KBG_49, KFPoly_48, KSSJEB_46, Kachowdy_50, Kampy_49, Kanely_48, Katalie136_48, KatherineG_55, Kenmech_51, Killigrew_47, Kimona_49, Kingmustik0402_49, KittenMittens_45, Koreni_48, Kratark_49, Kremtemulon_49, Krishelle_39, Kristoff_48,

Kugel_48, KyMonks1A_49, Kyee_49, Kykar_47, LHTSCC_51, Lambert1_49, Lamina13_47, LappelDuVide_49, LastResort_53, Lemur_49, LeoAvram_49, Lesedi_44, Lev2_42, Licorice_50, LilBib_47, Lillie_39, LittleB_49, LittleCherry_43, LittleGuy_49, LochMonster_50, Lockley_46, Looper_54, Lopton_48, Lorenzo_49, Lunsford_50, MA5_50, MK4_50, MPlant7149_46, Magnar_46, Magnito_44, Makemake_47, Manatee_48, Marcell_45, Marchesa_50, Marchy_41, Marge_47, Margo_49, Maroc7_45, Marsha_47, MaryBeth_47, MarysWell_41, Maverick_49, Maxo_50, Mazhar510_49, McGuire_48, Medusa_49, MeeZee_49, Melvin_51, MetalQZJ_46, Micasa_44, Michley_46, Midas2_42, Milcery_43, Millski_48, MinecraftSteve_55, Miramae_47, Mkhuseleli_46, Molly_48, Monet_50, Moose_47, Morpher26_48, Morrow_50, MrGordo_46, Mryolo_45, Mule_44, Mundrea_48, Museum_48, NEHalo_45, Naca_44, Naiad_39, Naira_49, Nancinator_39, Natosaleda_39, NearlyHeadless_46, Nebs_50, Nebulosus_53, Nedarya_49, Nemo27_49, Nerujay_49, Nhonho_48, Niza_50, Noella_49, Noelle_49, Norbert_48, NorthStar_48, Norz_47, NotAPhaseMom_49, Nyxis_49, OKCentral2016_47, OKaNui_49, Obama12_50, Ohfah_50, Ohno789_48, Oofda_55, Oogway_44, PP_51, PSullivan_47, PacerPaul_47, Palestino_48, Panamaxus_47, Papez_50, Paphu_45, Paraselene_45, Pari_48, Parliament_46, Partridge_39, PascalRango_48, PattyP_48, Payneful_46, PeaceMeal1_46, Peaches_49, Pelly_46, Pepe_44, Perplexer_48, Perseus_47, PeterPeter_49, Peterson_50, PetiteSangsue_48, Petp2012_48, Petruccio_47, PetterN_46, Phacado_49, PhailMary_38, Phantastic_51, Phelipe_50, PherrisBueller_47, Phighter1804_49, Phillis_48, Phlei_39, Phlorence_41, Phontbonne_49, Phrankenstein_39, PhrostyMug_46, PickleBack_42, PinkPlastic_46, Pinto_47, Pipcraft_47, Pippin_49, Pistachio_52, Pita2_50, Pocahontas_49, Polymorphads_50, Ponzi_21, Poompha_47, Popcicle_49, ProMouse_48, Pumbaa_49, Puppy_52, QTRLifeCrisis_47, QuinnKiro_48, RER2_32, RGL3_34, Rajelicia_48, Rasputin_39, ReMo_53, Rebeuca_48, Relief_48, Remus_54, ResDef_49, RexFury_39, Rhodalysa_39, RhynO_49, Rhynn_46, RidgeCB_47, Ringer_48, Roary_47, Rockstar_50, Rohr_48, Romney_49, Roosevelt_48, Rosa24_48, Rosalind_53, Rowdy_52, Rubeus_47, Rufus_48, Ruin_49, Ruotula_50, Rutherford_49, STLscum_48, Sabertooth_49, Sagefire_50, Saintus_41, Sandaddy_46, Sanya_45, SarFire_45, SaturnRing_51, Scamp_49, Scorpio_46, Scout_50, Scowl_48, Seabiscuit_49, Seanderson_49, Severus_46, Shaka_49, Shapes_52, ShayRa_55, Sheen_50, SheldonCooper_51, ShortQueendom_41, Shuman_39, Shygu2_48, Sibs6_48, SkiPole_50, Skipitt_48, Slagathor_49, Smairt_49, Smeadley_47, Smeagol_48, Snazzy_45, Solon_46, Sorpresa_46, Soups_55, Sparxx_50, SpikeBT_47, Spino_48, Squee_47, StCroix_39, Stasia_48, Stephig9_47, StewieG_46, Stink_48, StrongArm_47, Strosahl_54, Success_22, Sumter_44, Sunshine924_48, Swann_39, Swirley_45, SwissCheese_49, Switzer_48, Switzerland_54, Swole_48, SydNat_44, TNguyen7_51, TWAMP_39, Takoda_39, Taquarus_49, Target_48, Tarynearal_41, Tasp14_48, Teodoridan_45, Texage_48, Thanksgivukkah_48, Theia_40, TheloniousMonk_48, Thor_45, Tiger_41, Timshel_47, TinaFeyge_49, Tinybot_48, TiroTheta9_49, Todacoro_49, Topanga_46, Topgun_46, Toro_52, Tote_43, Trافت412_47, Treddle_48, Trike_46, Tripl3t_47, Trouble_49, TroyPia_50, Turj99_44, Twister_46, TwoPeat_48, TygerBlood_49, U2_46, UhSalsa_39, Ulysses_48, UnionJack_43, Veracruz_48, Violet_45, Waits_54, WalterMcMickey_46, Wander_49, Watermelon_48, Wheeler_47, Wilbur_49, Wile_48, Wilkins_46, Wizard007_49, Xena_47, YoSam321_49, Yogi_39, Yoncess_39, Zeeculate_45, Zephyr_47, Zeuska_46, Zolita_43,

Summary by start number:

Start 1:

- Found in 8 of 867 (0.9%) of genes in pham
- Manual Annotations of this start: 4 of 806
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_52 (A6), Blue7_54 (A6), Gladiator_50 (A6), Hammer_53 (A6),

Start 13:

- Found in 165 of 867 (19.0%) of genes in pham
- Manual Annotations of this start: 1 of 806
- Called 0.6% of time when present
- Phage (with cluster) where this start called: Holli_48 (A4),

Start 15:

- Found in 165 of 867 (19.0%) of genes in pham
- Manual Annotations of this start: 2 of 806
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Kimona_49 (A19), Thanksgiving_48 (A4),

Start 16:

- Found in 40 of 867 (4.6%) of genes in pham
- Manual Annotations of this start: 23 of 806
- Called 57.5% of time when present
- Phage (with cluster) where this start called: BabyRay_50 (A3), Caviar_49 (A3), Heathen_50 (A3), Hookmount_49 (A3), Idleandcovert_51 (A3), Isca_49 (A3), JF2_48 (A3), JF4_48 (A3), Lambert1_49 (A3), MK4_50 (A3), Margo_49 (A3), Noella_49 (A3), Norbert_48 (A3), Phantastic_51 (A3), Pocahontas_49 (A3), Puppy_52 (A3), QuinnKiro_48 (A3), ResDef_49 (A3), Rockstar_50 (A3), Scout_50 (A3), Texage_48 (A3), Todacoro_49 (A3), Veracruz_48 (A3),

Start 18:

- Found in 3 of 867 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 806
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Rifter_53 (A6),

Start 19:

- Found in 202 of 867 (23.3%) of genes in pham
- Manual Annotations of this start: 64 of 806
- Called 33.2% of time when present
- Phage (with cluster) where this start called: 20ES_53 (A2), Acolyte_46 (A2), Agape74_52 (A2), Aliter_50 (A9), AnnaL29_52 (A2), ArcherNM_45 (A2), BabyBack_49 (A2), Baehexic_49 (A2), Benvolio_47 (A2), CRB1_54 (A2), Catalina_51 (A9), Centaur_51 (A2), Chargerpower_49 (A), Che12_52 (A2), Cookiedough_52 (A6), D29_49 (A2), Darrell_52 (A9), DarthPhader_47 (A12), Drake55_52 (A2), EagleEye_52 (A16), Echid_50 (A2), EmyBug_49 (A9), EvilGenius_52 (A2), Fameo_50 (A2), First_0052 (A2), Flare16_50 (A2), Gail_54 (A14), GaugeLDP_48 (A2), GreedyLawyer_52 (A6), Hexamo_52 (A6), Hoot_47 (A6), HortumSL17_50 (A9), Indra_55 (A6), Jeffabunny_52 (A6), JewelBug_53 (A6), Jordennis_52 (A6), JoshKayV_52 (A2), Journey13_44 (A2), Kipper29_52 (A6), L5_49 (A2), Larenn_49 (A2), Leviathan_52 (A2), LilTurb_51 (A2), Lilbunny_51 (A6), Loser_52 (A2), Lucyedi_51 (A16), Malec_50 (A2), MiculUcigas_50 (A2), Myxus_50 (A9), NaSiaTalie_50 (A2), Newrala_52 (A6), NothingSpecial_48 (A2), PackMan_49

(A9), Ph8s_52 (A2), Phaded_51 (A2), Piro94_50 (A2), Pukovnik_49 (A2), Refuge_49 (A12), SemperFi_51 (A2), SmellyB_52 (A6), SororFago_52 (A14), SuperAwesome_52 (A6), Trixie_48 (A2), Trooper_51 (A2), WideWale_51 (A2), Wiks_51 (A6), Zulu_53 (A6),

Start 24:

- Found in 328 of 867 (37.8%) of genes in pham
- Manual Annotations of this start: 227 of 806
- Called 77.1% of time when present
- Phage (with cluster) where this start called: 40AC_51 (A17), ACFishhook_52 (A3), AN3_53 (A2), AN9_53 (A2), ANI8_53 (A2), AbbyPaige_52 (A2), Adzzy_52 (A2), Aglet_54 (A3), AgronaGT15_52 (A3), Alma_50 (A9), Aneem_51 (A11), Anselm_51 (A2), Anubis_56 (A3), Arissanae_49 (A9), AugsMagnumOpus_56 (A3), BABullseye_46 (A6), Bachome_52 (A11), Bactobuster_49 (A2), Beauxregard13_53 (A3), Beemo_50 (A9), BengiVuitton_52 (A2), BiancaTri92_50 (A2), Blinn1_55 (A6), BobSwaget_46 (A2), BogosyJay_49 (A9), Bowtie_51 (A11), BreSam8_53 (A3), Bud_50 (A11), Buggy_52 (A2), BuzzBuzz_51 (A3), C3_48 (A2), Candra_52 (A6), Caraxes_50 (A2), Changeling_49 (A2), Charm_49 (A9), Chartreuse_51 (A6), ChipMunk_52 (A2), CloudWang3_52 (A6), Colbster_53 (A3), Colin_50 (A2), Conquerage_50 (A9), Crucio_50 (A2), Cullens_53 (A3), D32_51 (A2), DBQu4n_52 (A2), DaHudson_53 (A3), DaVinci_51 (A6), Daishi_52 (A3), Dalmatian_51 (A2), Deloris_51 (A2), Dieselweasel_54 (A3), Dignity_52 (A2), Dorothea_52 (A6), DreamTeam1_49 (A9), DudeLittle_49 (A2), Duplo_52 (A2), EZMoney23_48 (A2), Ebony_50 (A11), EdogawaKiddo_48 (A9), Eidsmoe_50 (A9), Elephantoon_49 (A9), EpicPhail_54 (A3), Equemioh13_51 (A2), EricB_52 (A6), Et2Brutus_49 (A11), ExplosioNervosa_50 (A9), Farber_53 (A3), Fayely_50 (A9), Fernando_53 (A3), Fibonacci_50 (A11), FiringLine_50 (A2), Flaverint_51 (A11), Garak_54 (A6), Gemma_52 (A3), Georgie2_51 (A2), Gilberta_51 (A11), GingkoMaracino_53 (A3), Grif_53 (A3), Groupthink_54 (A3), Grub_53 (A3), Grum1_53 (A3), Gruunaga_52 (A6), GtownJaz_53 (A3), Hanray_48 (A9), HarryHoudini_51 (A2), HashRod_54 (A3), HaveUMetTed_54 (A3), Heffalump_49 (A2), Heliosoles_52 (A3), Helmet_54 (A6), Herbertwm_50 (A2), Hercules11_53 (A3), Horex_49 (A9), Hutc2_50 (A11), Insomnia_51 (A11), IronMan_50 (A2), Isiphiwo_50 (A6), Iwokeuplikedis_53 (A2), JHC117_53 (A3), Jaan_50 (A2), Jabith_51 (A11), Jeeves_54 (A14), JenCasNa_54 (A3), JeppNRM_54 (A3), Jerm_52 (A2), Jiawan_48 (A9), Jobu08_52 (A3), Joselito_51 (A11), Jsquared_48 (A2), KADY_53 (A3), Kalb97_54 (A3), Kalnoky_54 (A3), Kalpine_48 (A2), Kazan_53 (A6), Kerberos_52 (A2), Keziacharles14_50 (A9), KingCyrus_52 (A2), Kinmap_47 (A21), Koduck_51 (A2), Koko_53 (A6), LBerry_54 (A3), LadyBird_55 (A2), Landor_50 (A2), LarryKay_53 (A3), Leogania_50 (A2), Lilith_54 (A3), Lilleskat_48 (A9), Lokk_47 (A2), LoneWolf_51 (A9), Louie6_52 (A3), Luchador_54 (A14), Lucivia_51 (A11), LugYA_56 (A3), MaCh_51 (A11), Mabel_50 (A11), MadMarie_53 (A3), Mainiac_53 (A3), MajorMajor_49 (A2), Malinsilva_55 (A3), Maminiaina_49 (A9), Manu_53 (A3), MarQuardt_53 (A3), Marie_53 (A3), Marius_54 (A3), McFly_52 (A6), Methuselah_49 (A3), Microwolf_53 (A3), Miko_47 (A2), Misomonster_54 (A3), MissWhite_49 (A2), MoneyMay_53 (A3), MuchMore_56 (A3), Mulciber_50 (A11), Munch_51 (A11), MyraDee_43 (A18), Naji_52 (A2), Neeharika16_51 (A6), NicoleTera_49 (A2), Odin_49 (A2), OlanP_52 (A3), Ollie_53 (A3), Onglai_48 (A9), Orange_50 (A11), P28Green_54 (A3), PGHhamlin_55 (A3), PainterBoy_51 (A16), Pawn_53 (A3), Pembroke_53 (A3), Penny1_54 (A3), Petersenfast_49 (A11), Phaeder_50 (A9), Pharaoh_45 (A12), PhishRPhriends_51 (A3), Phoebe_54 (A3), Phonnegut_50 (A9), Phoxy_53 (A3), Phranny_54 (A3), Pioneer_50 (A9), Pmask_52 (A6), Pomar16_52 (A2), PotatoSplit_55 (A3), Power_49 (A2), Priamo_54 (A6), Priya_50 (A9), PurpleHaze_53 (A3), Qobbit_50 (A9),

QueenB2_49 (A2), QueenBeesly_50 (A2), Rachaly_49 (A2), Rahalelujah_50 (A9), Reba_53 (A3), RedRock_52 (A2), Retro23_51 (A2), Roksolana_53 (A6), Rummer_52 (A3), RyeScarlet_51 (A9), Sabia_53 (A3), Sabinator_52 (A3), Sachima_47 (A9), Salz_49 (A11), Scherzo_50 (A9), Serenity_50 (A2), Sham4_50 (A11), SheaKeira_49 (A9), Smeagan_53 (A2), SnapTap_50 (A2), Snape_50 (A11), Snickers_53 (A3), SoYo_53 (A3), SoilDragon_53 (A3), Soshari_55 (A3), Spike509_53 (A3), Spouty_50 (A9), Stagni_53 (A3), StarStuff_52 (A2), Steamy_46 (A12), StepMih_53 (A3), Sunhee_53 (A14), SuperCallie99_51 (A6), Superchunk_49 (A2), SweetiePie_50 (A2), SwirlSquare_55 (A2), TarsusIV_49 (A2), Taurus_54 (A3), Tiffany_53 (A3), Timothy_50 (A11), TinyTimmy_50 (A11), TipsytheTRex_46 (A2), Toaka_50 (A9), Tomathan_52 (A2), ToneTone_49 (A6), Travvers_52 (A2), Tubs_50 (A9), Tucker_53 (A6), Turbido_51 (A2), Ugenie5_47 (A9), Updawg_51 (A2), VA6_51 (A2), VC3_53 (A2), Vanisoa_50 (A9), Vix_53 (A3), VohminGhazi_52 (A6), Watson_53 (A3), WeiHuaDA_52 (A2), Whabigail7_51 (A2), Wooldri_55 (A3), WunderPhul_52 (A6), XianYue_49 (A2), Yecey3_51 (A9), Yokurt_52 (A6), Zaka_52 (A6), Zetzy_52 (A3), Zimmer_47 (A12),

Start 25:

- Found in 2 of 867 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 806
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon_50 (A15), DontArgue_47 (A10),

Start 27:

- Found in 32 of 867 (3.7%) of genes in pham
- Manual Annotations of this start: 7 of 806
- Called 46.9% of time when present
- Phage (with cluster) where this start called: BabyJohn_48 (A3), BlueBird_52 (A3), Bugatti_51 (A3), Chiqui_48 (A3), DropBear_50 (A3), Fred313_50 (A3), Giroux_51 (A3), HelDan_50 (A3), Kachowdy_50 (A3), Marchesa_50 (A3), Panamaxus_47 (A3), Pistachio_52 (A3), Popcicle_49 (A3), SaturnRing_51 (A3), TNguyen7_51 (A3),

Start 28:

- Found in 175 of 867 (20.2%) of genes in pham
- Manual Annotations of this start: 159 of 806
- Called 94.3% of time when present
- Phage (with cluster) where this start called: AbbysRanger_48 (A4), Abdiel_49 (A4), Achebe_47 (A4), Albee_49 (A4), Alberto7_50 (A4), Annyong_49 (A4), Arturo_48 (A4), AvatarAhPeg_47 (A4), Avle17_49 (A4), B1_45 (A3), Baby16_49 (A4), Backyardigan_47 (A4), Badger_47 (A4), BangNhom_50 (A4), Bartimeaus_49 (A4), BellusTerra_50 (A4), Blackmoor_49 (A4), Bombshell_49 (A4), Broseidon_49 (A4), Bruiser_48 (A4), BubbleTrouble_48 (A4), Bumblebee11_47 (A4), Burger_47 (A4), Caelakin_49 (A4), Camperdownii_47 (A4), CentreCat_49 (A4), Cerulean_50 (A4), ChampagnePapi_51 (A4), Chaph_49 (A4), Chupacabra_47 (A10), Cici_48 (A4), Cindaradix_46 (A4), Cintron_48 (A4), Citius_49 (A4), Clarenza_48 (A4), Cocoaberry_49 (A4), Commander_49 (A4), Connomayer_49 (A4), Datway_48 (A4), Deano_48 (A4), Dhanush_49 (A4), DirtyDunning_48 (A4), Drake94_46 (A10), DroogsArmy_45 (A7), Druantia_49 (A4), DustyMartin_52 (A10), Eagle_49 (A4), Eaglepride_49 (A10), Eapen_49 (A4), Edison31_47 (A10), Eris_48 (A4), Eros_49 (A4), Eurydice_50 (A4), Florean_49 (A4), Flux_49 (A4), FlyCatcher_54 (A7), Funston_48 (A4), Gadost_49 (A4), Goose_48 (A10), HINdeR_45 (A7), HamSlice_48 (A4), Happiness_48 (A4), Houdini22_49 (A4), ICleared_49 (A4), Iceman_49 (A4), Iracema64_50 (A4), Jaykayelowell_47 (A4), JetBlade_49 (A4), JoongJeon_48 (A4),

KFPoly_48 (A4), Kamy_49 (A4), Katalie136_48 (A4), Kingmustik0402_49 (A4), KittenMittens_45 (A10), Koreni_48 (A4), Kratark_49 (A4), Kremtemulon_49 (A4), Kristoff_48 (A10), Kyee_49 (A4), LHTSCC_51 (A4), LappelDuVide_49 (A4), Lemur_49 (A4), LeoAvram_49 (A4), LittleB_49 (A4), LittleGuy_49 (A4), LochMonster_50 (A4), Lorenzo_49 (A4), Lunsford_50 (A4), MA5_50 (A3), Maverick_49 (A4), Maxo_50 (A4), Mazhar510_49 (A4), Medusa_49 (A4), MeeZee_49 (A4), Melvin_51 (A4), Millski_48 (A4), Miramae_47 (A4), Morpher26_48 (A4), Morrow_50 (A4), Mundrea_48 (A4), Nebs_50 (A4), Nemo27_49 (A4), Noelle_49 (A4), NorthStar_48 (A4), NotAPhaseMom_49 (A4), Nyxis_49 (A4), OKCentral2016_47 (A10), OKaNui_49 (A4), Obama12_50 (A4), Ohfah_50 (A4), PP_51 (A7), Palestino_48 (A4), PeaceMeal1_46 (A10), Peaches_49 (A4), Perplexer_48 (A4), PeterPeter_49 (A4), PetiteSangsue_48 (A4), Phacado_49 (A4), Phelipe_50 (A4), Phighter1804_49 (A4), Phontbonne_49 (A4), Pipcraft_47 (A4), Polymorphads_50 (A4), Poompha_47 (A10), Pumbaa_49 (A4), Rebeuca_48 (A10), Relief_48 (A4), RhynO_49 (A10), Romney_49 (A4), Roosevelt_48 (A4), Rosa24_48 (A4), Rowdy_52 (A10), Ruin_49 (A4), Sabertooth_49 (A4), Scamp_49 (A4), Severus_46 (A10), Shaka_49 (A4), Shapes_52 (A10), Sheen_50 (A7), SheldonCooper_51 (A4), Shygu2_48 (A4), Skipitt_48 (A4), Sparxx_50 (A4), Spino_48 (A4), Stasia_48 (A4), Stink_48 (A4), Taquarus_49 (A4), Timshel_47 (A7), TinaFeyge_49 (A4), Tinybot_48 (A4), TiroTheta9_49 (A4), Topanga_46 (A10), Toro_52 (A7), Trike_46 (A10), TroyPia_50 (A4), Twister_46 (A10), TygerBlood_49 (A4), Ulysses_48 (A4), WalterMcMickey_46 (A10), Wander_49 (A4), Wilbur_49 (A4), Wile_48 (A4), Wizard007_49 (A4), Xena_47 (A4), YoSam321_49 (A4),

Start 29:

- Found in 83 of 867 (9.6%) of genes in pham
- Manual Annotations of this start: 1 of 806
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Bxz2_49 (A3),

Start 30:

- Found in 1 of 867 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 806
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anthony_46 (A20),

Start 31:

- Found in 38 of 867 (4.4%) of genes in pham
- Manual Annotations of this start: 36 of 806
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatin_39 (CA), Alpacados_38 (CA), AngryOrchard_37 (CA), AppleCloud_37 (CA), Belenaria_39 (CA), BobbyDazzler_39 (CA), Bonanza_39 (CA), Bradshaw_39 (CA), Bryce_39 (CA), CosmicSans_39 (CA), Dinger_39 (CA), Erik_39 (CA), Espica_39 (CA), Gollum_39 (CA), Harlequin_39 (CA), Hiro_39 (CA), Jester_39 (CA), Krishelle_39 (CA), Lillie_39 (CA), Naiad_39 (CA), Nancinator_39 (CA), Natosaleda_39 (CA), Partridge_39 (CA), PhailMary_38 (CA), Phrankenstien_39 (CA), RER2_32 (CA), RGL3_34 (CA), Rasputin_39 (CA), RexFury_39 (CA), Rhodalysa_39 (CA), Shuman_39 (CA), StCroix_39 (CA), Swann_39 (CA), TWAMP_39 (CA), Takoda_39 (CA), UhSalsa_39 (CA), Yogi_39 (CA), Yoncess_39 (CA),

Start 32:

- Found in 38 of 867 (4.4%) of genes in pham

- Manual Annotations of this start: 38 of 806
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AgentM_41 (A5), Airmid_43 (A5), Aragog_41 (A5), Archetta_42 (A5), Benedict_45 (A5), Bluefalcon_41 (A5), Bonamassa_43 (A5), Chadwick_46 (A5), Conspiracy_42 (A5), Coog_42 (A5), Cuco_42 (A5), Discoknowium_41 (A5), Dublin_41 (A5), EITiger69_44 (A5), ForGetIt_42 (A5), George_42 (A5), Ghoulboy_44 (A5), HuhtaEnerson15_43 (A5), Jabiru_43 (A5), Jovo_42 (A5), Lev2_42 (A5), LittleCherry_43 (A5), MarysWell_41 (A5), Micasa_44 (A5), Midas2_42 (A5), Milcery_43 (A5), Naca_44 (A5), PetterN_46 (A5), Phlorence_41 (A5), PickleBack_42 (A5), Scorpia_46 (A5), Swirley_45 (A5), SydNat_44 (A5), Tarynearal_41 (A5), Theia_40 (A5), Tiger_41 (A5), UnionJack_43 (A5), Zolita_43 (A5),

Start 33:

- Found in 218 of 867 (25.1%) of genes in pham
- Manual Annotations of this start: 208 of 806
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A6_43 (A1), AFIS_45 (A1), Abbyshoes_50 (A1), Abrogate_460 (A1), Acme_49 (A1), Adahisdi_46 (A1), Aeneas_49 (A1), Agaliana_43 (A1), Ajay_47 (A1), Alsfro_51 (A1), Altman_49 (A1), Alvin_47 (A1), Anglerfish_48 (A1), Applejack_42 (A1), Arcanine_48 (A1), Arlo_45 (A1), Ashballer_48 (A1), Atkinbua_49 (A1), BK1_43 (A1), BPBiebs31_48 (A1), BaconJack_50 (A1), Barriga_48 (A1), Beatrix_47 (A1), BeesKnees_48 (A1), Bethlehem_47 (A1), Bexan_46 (A1), Big3_46 (A1), BigMau_48 (A1), BigPaolini_47 (A1), Bigfoot_43 (A1), BillKnuckles_47 (A1), Bircsak_46 (A1), BluSpix_45 (A1), Blue_47 (A1), Bob3_45 (A1), Bones_47 (A1), Briton15_49 (A1), Bruns_46 (A1), Burton_47 (A1), Buttons_45 (A1), Bxb1_43 (A1), CactusRose_44 (A1), Carlyle_46 (A1), Chanagan_44 (A1), Ciao_47 (A1), ConceptII_49 (A1), Corvo_48 (A1), Crispicious1_45 (A1), Cueyllyss_48 (A1), DD5_46 (A1), Dexes_47 (A1), Doom_47 (A1), DrFeelGood_45 (A1), DreamCatcher_50 (A1), Dreamboat_49 (A1), Dulcie_47 (A1), Dussy_49 (A1), Dynamix_48 (A1), Edtherson_47 (A1), Espresso_47 (A1), Euphoria_45 (A1), Eyeball_48 (A1), Fajezeel_49 (A1), Fascinus_43 (A1), Fenn_49 (A1), Forsytheast_47 (A1), Francis47_46 (A1), Froghopper_45 (A1), Fushigi_45 (A1), GageAP_48 (A1), Gandalf20_49 (A1), Gompeii16_46 (A1), Graduation_50 (A1), GrecoEtereo_48 (A1), Greg_49 (A1), Gwendoluna_50 (A1), Gyzlar_43 (A1), Hami1_41 (A1), HanShotFirst_46 (A1), HarryOW_46 (A1), Hermia_48 (A1), HermioneGrange_47 (A1), Homines_39 (A1), Hope4ever_49 (A1), ILeeKay_51 (A1), Ichabod_49 (A1), IgnatiusPatJac_47 (A1), Inyanga_44 (A1), JC27_48 (A1), JackSparrow_48 (A1), Jasper_49 (A1), Jerm2_48 (A1), Jorgensen_48 (A1), JuliaChild_48 (A1), KBG_49 (A1), KSSJEB_46 (A1), Kanely_48 (A1), Kenmech_51 (A1), Killigrew_47 (A1), Kugel_48 (A1), KyMonks1A_49 (A1), Kykar_47 (A1), Lamina13_47 (A1), Lesedi_44 (A1), Licorice_50 (A1), LilBib_47 (A1), Lockley_46 (A1), Lopton_48 (A1), MPlant7149_46 (A1), Magnar_46 (A1), Magnito_44 (A1), Makemake_47 (A1), Manatee_48 (A1), Marcell_45 (A1), Marchy_41 (A1), Marge_47 (A1), Maroc7_45 (A1), Marsha_47 (A1), MaryBeth_47 (A1), McGuire_48 (A1), MetalQZJ_46 (A1), Michley_46 (A1), Mkhusei_46 (A1), Molly_48 (A1), Monet_50 (A1), Moose_47 (A1), MrGordo_46 (A1), Mryolo_45 (A1), Mule_44 (A1), Museum_48 (A1), NEHalo_45 (A1), Naira_49 (A1), Nerujay_49 (A1), Nhonho_48 (A1), Niza_50 (A1), Norz_47 (A1), Ohno789_48 (A1), Oogway_44 (A1), PSullivan_47 (A1), PacerPaul_47 (A1), Papez_50 (A1), Paphu_45 (A1), Paraselene_45 (A1), Pari_48 (A1), Parliament_46 (A1), PascalRango_48 (A1), PattyP_48 (A1), Payneful_46 (A1), Pelly_46 (A1), Pepe_44 (A1), Perseus_47 (A1), Peterson_50 (A1), Petp2012_48 (A1), Petruccio_47 (A1), PherrisBueller_47 (A1), PhrostyMug_46 (A1),

PinkPlastic_46 (A1), Pinto_47 (A1), Pippin_49 (A1), Pita2_50 (A1), ProMouse_48 (A1), QTRlifeCrisis_47 (A1), Rajelicia_48 (A1), Rhynn_46 (A1), RidgeCB_47 (A1), Ringer_48 (A1), Rohr_48 (A1), Rubeus_47 (A1), Rufus_48 (A1), Ruotula_50 (A1), Rutherford_49 (A1), STLscum_48 (A1), Sagefire_50 (A1), Sandaddy_46 (A1), Sanya_45 (A1), SarFire_45 (A1), Scowl_48 (A1), Seabiscuit_49 (A1), Seanderson_49 (A1), ShortQueendom_41 (A1), Sibs6_48 (A1), SkiPole_50 (A1), Slagathor_49 (A1), Smairt_49 (A1), Smeagol_48 (A1), Snazzy_45 (A1), Solon_46 (A1), Sorpresa_46 (A1), SpikeBT_47 (A1), Squee_47 (A1), StewieG_46 (A1), StrongArm_47 (A1), Sumter_44 (A1), Sunshine924_48 (A1), SwissCheese_49 (A1), Switzer_48 (A1), Swole_48 (A1), Target_48 (A1), Tasp14_48 (A1), Teodoridan_45 (A1), TheloniousMonk_48 (A1), Thor_45 (A1), Topgun_46 (A1), Tote_43 (A1), Traft412_47 (A1), Treddle_48 (A1), Tripl3t_47 (A1), Trouble_49 (A1), Turj99_44 (A1), TwoPeat_48 (A1), U2_46 (A1), Violet_45 (A1), Watermelon_48 (A1), Wheeler_47 (A1), Wilkins_46 (A1), Zeeculate_45 (A1), Zephyr_47 (A1), Zeuska_46 (A1),

Start 34:

- Found in 12 of 867 (1.4%) of genes in pham
- Manual Annotations of this start: 11 of 806
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Astro_46 (A8), Danforth_46 (A8), Dixon_46 (A8), Expelliarmus_46 (A8), Groundhog_45 (A8), NearlyHeadless_46 (A8), Phillis_48 (A8), Phlei_39 (A13), Roary_47 (A8), Saintus_41 (A8), Smeadley_47 (A8), Stephig9_47 (A8),

Start 35:

- Found in 9 of 867 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 806
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Nedarya_49 (A15),

Start 36:

- Found in 20 of 867 (2.3%) of genes in pham
- Manual Annotations of this start: 19 of 806
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia_54 (A15), Battleship_56 (A15), Boohoo_54 (A15), DekHockey33_54 (A15), Epsocamisio_52 (A15), JSwag_53 (A15), KatherineG_55 (A15), LastResort_53 (A15), Looper_54 (A15), MinecraftSteve_55 (A15), Nebulosus_53 (A15), Oofda_55 (A15), ReMo_53 (A15), Remus_54 (A15), Rosalind_53 (A15), ShayRa_55 (A15), Soups_55 (A15), Strosahl_54 (A15), Switzerland_54 (A15), Waits_54 (A15),

Start 40:

- Found in 1 of 867 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 806
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ibantik_26 (singleton),

Start 42:

- Found in 2 of 867 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 806
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ponzi_21 (singleton), Success_22 (singleton),

Start 62:

- Found in 170 of 867 (19.6%) of genes in pham
- No Manual Annotations of this start.
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Bradman_49 (A2), Quokka_48 (A2),

Summary by clusters:

There are 24 clusters represented in this pham: singleton, A15, A14, A17, A16, A11, A10, A13, A12, A19, A18, A1, A3, A2, A5, A4, A7, A6, A9, A8, A, CA, A20, A21,

Info for manual annotations of cluster A:

- Start number 19 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A1:

- Start number 33 was manually annotated 208 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 28 was manually annotated 17 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 24 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 19 was manually annotated 2 times for cluster A12.
- Start number 24 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 19 was manually annotated 2 times for cluster A14.
- Start number 24 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 25 was manually annotated 1 time for cluster A15.
- Start number 35 was manually annotated 1 time for cluster A15.
- Start number 36 was manually annotated 19 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 19 was manually annotated 2 times for cluster A16.
- Start number 24 was manually annotated 1 time for cluster A16.

Info for manual annotations of cluster A18:

- Start number 24 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 15 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 19 was manually annotated 35 times for cluster A2.
- Start number 24 was manually annotated 67 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 30 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 16 was manually annotated 23 times for cluster A3.
- Start number 24 was manually annotated 79 times for cluster A3.
- Start number 27 was manually annotated 7 times for cluster A3.
- Start number 28 was manually annotated 2 times for cluster A3.
- Start number 29 was manually annotated 1 time for cluster A3.

Info for manual annotations of cluster A4:

- Start number 13 was manually annotated 1 time for cluster A4.
- Start number 15 was manually annotated 1 time for cluster A4.
- Start number 28 was manually annotated 135 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 32 was manually annotated 38 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 1 was manually annotated 4 times for cluster A6.
- Start number 18 was manually annotated 1 time for cluster A6.
- Start number 19 was manually annotated 15 times for cluster A6.
- Start number 24 was manually annotated 22 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 28 was manually annotated 5 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 34 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 19 was manually annotated 7 times for cluster A9.
- Start number 24 was manually annotated 28 times for cluster A9.

Info for manual annotations of cluster CA:

- Start number 31 was manually annotated 36 times for cluster CA.

Gene Information:

Gene: 20ES_53 Start: 34234, Stop: 33689, Start Num: 19

Candidate Starts for 20ES_53:

(Start: 19 @34234 has 64 MA's), (Start: 24 @34219 has 227 MA's), (56, 34108), (72, 34063), (79, 33988), (92, 33949), (105, 33799), (108, 33781), (110, 33751),

Gene: 40AC_51 Start: 34942, Stop: 34445, Start Num: 24

Candidate Starts for 40AC_51:

(Start: 19 @34957 has 64 MA's), (Start: 24 @34942 has 227 MA's), (49, 34873), (62, 34837), (75, 34765), (77, 34759), (79, 34735), (92, 34696), (105, 34552), (106, 34549), (108, 34534),

Gene: A6_43 Start: 34340, Stop: 33849, Start Num: 33

Candidate Starts for A6_43:

(14, 34412), (20, 34373), (Start: 33 @34340 has 208 MA's), (57, 34259), (65, 34238), (82, 34130), (91, 34097), (108, 33938), (112, 33902),

Gene: ACFishhook_52 Start: 33821, Stop: 33231, Start Num: 24

Candidate Starts for ACFishhook_52:

(Start: 24 @33821 has 227 MA's), (Start: 29 @33815 has 1 MA's), (60, 33671), (65, 33662), (73, 33635), (82, 33551), (105, 33347), (110, 33299),

Gene: AFIS_45 Start: 35135, Stop: 34641, Start Num: 33

Candidate Starts for AFIS_45:

(Start: 33 @35135 has 208 MA's), (57, 35054), (65, 35033), (82, 34925), (88, 34901), (91, 34892), (108, 34733), (112, 34697),

Gene: AN3_53 Start: 34524, Stop: 34060, Start Num: 24

Candidate Starts for AN3_53:

(Start: 19 @34539 has 64 MA's), (Start: 24 @34524 has 227 MA's), (72, 34434), (79, 34359), (92, 34320), (105, 34170), (108, 34152), (110, 34122),

Gene: AN9_53 Start: 33887, Stop: 33309, Start Num: 24

Candidate Starts for AN9_53:

(Start: 19 @33902 has 64 MA's), (Start: 24 @33887 has 227 MA's), (60, 33773), (65, 33767), (72, 33740), (76, 33692), (80, 33662), (96, 33596), (97, 33593), (98, 33584), (101, 33575), (105, 33422),

Gene: ANI8_53 Start: 33887, Stop: 33309, Start Num: 24

Candidate Starts for ANI8_53:

(Start: 19 @33902 has 64 MA's), (Start: 24 @33887 has 227 MA's), (60, 33773), (65, 33767), (72, 33740), (76, 33692), (80, 33662), (96, 33596), (97, 33593), (98, 33584), (101, 33575), (105, 33422),

Gene: AbbyPaige_52 Start: 34144, Stop: 33626, Start Num: 24

Candidate Starts for AbbyPaige_52:

(Start: 19 @34159 has 64 MA's), (Start: 24 @34144 has 227 MA's), (49, 34060), (62, 34024), (75, 33952), (77, 33946), (79, 33922), (80, 33919), (82, 33910), (92, 33883), (105, 33736), (108, 33718), (110, 33688),

Gene: AbbysRanger_48 Start: 33378, Stop: 32839, Start Num: 28

Candidate Starts for AbbysRanger_48:

(Start: 13 @33435 has 1 MA's), (Start: 15 @33420 has 2 MA's), (Start: 28 @33378 has 159 MA's), (82, 33120), (92, 33087), (101, 33048), (112, 32880),

Gene: Abbysshoes_50 Start: 35780, Stop: 35289, Start Num: 33

Candidate Starts for Abbysshoes_50:

(14, 35852), (20, 35813), (Start: 33 @35780 has 208 MA's), (57, 35699), (65, 35678), (76, 35609), (88, 35546), (91, 35537), (108, 35378), (112, 35342),

Gene: Abdiel_49 Start: 33389, Stop: 32850, Start Num: 28

Candidate Starts for Abdiel_49:

(Start: 13 @33446 has 1 MA's), (Start: 15 @33431 has 2 MA's), (Start: 28 @33389 has 159 MA's), (82, 33131), (92, 33098), (101, 33059), (112, 32891),

Gene: Abrogate_460 Start: 35795, Stop: 35316, Start Num: 33

Candidate Starts for Abrogate_460:

(14, 35867), (20, 35828), (Start: 33 @35795 has 208 MA's), (57, 35714), (65, 35693), (76, 35624), (88, 35561), (91, 35552), (108, 35405), (112, 35369),

Gene: Achebe_47 Start: 33361, Stop: 32822, Start Num: 28

Candidate Starts for Achebe_47:

(Start: 13 @33418 has 1 MA's), (Start: 15 @33403 has 2 MA's), (Start: 28 @33361 has 159 MA's), (82, 33103), (92, 33070), (101, 33031), (112, 32863),

Gene: Acme_49 Start: 35657, Stop: 35166, Start Num: 33

Candidate Starts for Acme_49:

(14, 35729), (20, 35690), (Start: 33 @35657 has 208 MA's), (57, 35576), (65, 35555), (76, 35486), (88, 35423), (91, 35414), (108, 35255), (112, 35219),

Gene: Acolyte_46 Start: 33097, Stop: 32558, Start Num: 19

Candidate Starts for Acolyte_46:

(Start: 19 @33097 has 64 MA's), (Start: 24 @33082 has 227 MA's), (62, 32968), (72, 32941), (77, 32890), (82, 32854), (92, 32827), (97, 32800), (105, 32671), (106, 32668),

Gene: Adahisdi_46 Start: 35135, Stop: 34644, Start Num: 33

Candidate Starts for Adahisdi_46:

(Start: 33 @35135 has 208 MA's), (57, 35054), (65, 35033), (88, 34901), (91, 34892), (108, 34733), (112, 34697),

Gene: Adzzy_52 Start: 32649, Stop: 32053, Start Num: 24

Candidate Starts for Adzzy_52:

(Start: 19 @32664 has 64 MA's), (Start: 24 @32649 has 227 MA's), (60, 32496), (76, 32421), (101, 32304), (103, 32283), (105, 32163), (106, 32160), (110, 32118),

Gene: Aeneas_49 Start: 35748, Stop: 35269, Start Num: 33

Candidate Starts for Aeneas_49:

(14, 35820), (20, 35781), (Start: 33 @35748 has 208 MA's), (57, 35667), (65, 35646), (76, 35577), (82, 35538), (88, 35514), (91, 35505), (108, 35358), (112, 35322),

Gene: Agaliana_43 Start: 32395, Stop: 31904, Start Num: 33

Candidate Starts for Agaliana_43:

(14, 32467), (20, 32428), (Start: 33 @32395 has 208 MA's), (57, 32314), (65, 32293), (76, 32224), (82, 32185), (88, 32161), (91, 32152), (108, 31993), (112, 31957),

Gene: Agape74_52 Start: 34153, Stop: 33611, Start Num: 19

Candidate Starts for Agape74_52:

(Start: 19 @34153 has 64 MA's), (Start: 24 @34138 has 227 MA's), (49, 34051), (62, 34015), (72, 33988), (75, 33943), (77, 33937), (79, 33913), (92, 33874), (105, 33721), (108, 33703), (110, 33673),

Gene: AgentM_41 Start: 32065, Stop: 31532, Start Num: 32

Candidate Starts for AgentM_41:

(Start: 32 @32065 has 38 MA's), (62, 31933), (65, 31927), (92, 31783),

Gene: Aglet_54 Start: 33857, Stop: 33267, Start Num: 24

Candidate Starts for Aglet_54:

(Start: 24 @33857 has 227 MA's), (Start: 29 @33851 has 1 MA's), (60, 33707), (65, 33698), (73, 33671), (82, 33587), (105, 33383), (110, 33335),

Gene: AgronaGT15_52 Start: 33705, Stop: 33118, Start Num: 24

Candidate Starts for AgronaGT15_52:

(Start: 24 @33705 has 227 MA's), (Start: 29 @33699 has 1 MA's), (60, 33561), (65, 33552), (73, 33525), (74, 33522), (78, 33462), (82, 33441), (105, 33234), (110, 33186),

Gene: Airmid_43 Start: 32100, Stop: 31576, Start Num: 32

Candidate Starts for Airmid_43:

(Start: 32 @32100 has 38 MA's), (62, 31968), (65, 31962), (92, 31818),

Gene: Ajay_47 Start: 35453, Stop: 34962, Start Num: 33

Candidate Starts for Ajay_47:

(Start: 33 @35453 has 208 MA's), (57, 35372), (65, 35351), (76, 35282), (88, 35219), (91, 35210), (108, 35051), (112, 35015),

Gene: Alatin_39 Start: 29865, Stop: 29341, Start Num: 31

Candidate Starts for Alatin_39:

(Start: 31 @29865 has 36 MA's), (60, 29760), (105, 29448), (107, 29439), (108, 29430), (110, 29400),

Gene: Albee_49 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Albee_49:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Alberto7_50 Start: 33725, Stop: 33186, Start Num: 28

Candidate Starts for Alberto7_50:

(Start: 13 @33782 has 1 MA's), (Start: 15 @33767 has 2 MA's), (Start: 28 @33725 has 159 MA's), (82, 33467), (92, 33434), (101, 33395), (112, 33227),

Gene: Aliter_50 Start: 33562, Stop: 33032, Start Num: 19

Candidate Starts for Aliter_50:

(Start: 19 @33562 has 64 MA's), (Start: 24 @33547 has 227 MA's), (52, 33454), (62, 33430), (77, 33352), (92, 33289), (105, 33139),

Gene: Alma_50 Start: 33745, Stop: 33188, Start Num: 24

Candidate Starts for Alma_50:

(Start: 19 @33760 has 64 MA's), (Start: 24 @33745 has 227 MA's), (56, 33649), (57, 33646), (65, 33625), (78, 33535), (101, 33436), (105, 33295),

Gene: Alpacados_38 Start: 29770, Stop: 29246, Start Num: 31

Candidate Starts for Alpacados_38:

(Start: 31 @29770 has 36 MA's), (60, 29665), (105, 29353), (107, 29344), (108, 29335), (110, 29305),

Gene: Alsfro_51 Start: 35855, Stop: 35364, Start Num: 33

Candidate Starts for Alsfro_51:

(14, 35927), (20, 35888), (Start: 33 @35855 has 208 MA's), (57, 35774), (65, 35753), (88, 35621), (91, 35612), (108, 35453), (112, 35417),

Gene: Altman_49 Start: 36087, Stop: 35596, Start Num: 33

Candidate Starts for Altman_49:

(Start: 33 @36087 has 208 MA's), (57, 36006), (65, 35985), (88, 35853), (91, 35844), (108, 35685), (112, 35649),

Gene: Alvin_47 Start: 36107, Stop: 35616, Start Num: 33

Candidate Starts for Alvin_47:

(14, 36179), (20, 36140), (Start: 33 @36107 has 208 MA's), (57, 36026), (65, 36005), (88, 35873), (91, 35864), (108, 35705), (112, 35669),

Gene: Anaysia_54 Start: 32758, Stop: 32216, Start Num: 36

Candidate Starts for Anaysia_54:

(Start: 36 @32758 has 19 MA's), (37, 32752), (57, 32647), (67, 32620), (70, 32617), (84, 32506), (90, 32485), (92, 32476), (94, 32467), (105, 32320), (110, 32275),

Gene: Aneem_51 Start: 33271, Stop: 32702, Start Num: 24

Candidate Starts for Aneem_51:

(Start: 24 @33271 has 227 MA's), (62, 33136), (96, 32971), (105, 32815),

Gene: Anglerfish_48 Start: 35637, Stop: 35146, Start Num: 33

Candidate Starts for Anglerfish_48:

(Start: 33 @35637 has 208 MA's), (57, 35556), (65, 35535), (76, 35466), (88, 35403), (91, 35394), (108, 35235), (112, 35199),

Gene: AngryOrchard_37 Start: 29729, Stop: 29205, Start Num: 31

Candidate Starts for AngryOrchard_37:

(Start: 31 @29729 has 36 MA's), (60, 29624), (105, 29312), (107, 29303), (108, 29294), (110, 29264),

Gene: AnnaL29_52 Start: 34705, Stop: 34160, Start Num: 19

Candidate Starts for AnnaL29_52:

(Start: 19 @34705 has 64 MA's), (Start: 24 @34690 has 227 MA's), (62, 34570), (72, 34543), (75, 34498), (77, 34492), (79, 34468), (91, 34432), (92, 34429), (94, 34420), (105, 34273), (108, 34255), (110, 34225),

Gene: Annyong_49 Start: 33433, Stop: 32894, Start Num: 28

Candidate Starts for Annyong_49:

(Start: 13 @33490 has 1 MA's), (Start: 15 @33475 has 2 MA's), (Start: 28 @33433 has 159 MA's), (82, 33175), (92, 33142), (101, 33103), (112, 32935),

Gene: Anon_50 Start: 32020, Stop: 31481, Start Num: 25

Candidate Starts for Anon_50:

(Start: 25 @32020 has 1 MA's), (65, 31894), (92, 31747), (112, 31534), (115, 31501),

Gene: Anselm_51 Start: 34069, Stop: 33545, Start Num: 24

Candidate Starts for Anselm_51:

(Start: 19 @34084 has 64 MA's), (Start: 24 @34069 has 227 MA's), (62, 33955), (72, 33928), (77, 33877), (79, 33853), (92, 33814), (94, 33805), (105, 33655), (108, 33637), (110, 33607),

Gene: Anthony_46 Start: 31582, Stop: 31001, Start Num: 30

Candidate Starts for Anthony_46:

(23, 31606), (Start: 30 @31582 has 1 MA's), (46, 31510), (65, 31441), (76, 31366), (88, 31306), (91, 31297), (100, 31255), (101, 31249), (105, 31108), (111, 31054),

Gene: Anubis_56 Start: 33743, Stop: 33153, Start Num: 24

Candidate Starts for Anubis_56:

(Start: 24 @33743 has 227 MA's), (Start: 29 @33737 has 1 MA's), (60, 33593), (65, 33584), (73, 33557), (82, 33473), (105, 33269), (110, 33221),

Gene: AppleCloud_37 Start: 29816, Stop: 29292, Start Num: 31

Candidate Starts for AppleCloud_37:

(Start: 31 @29816 has 36 MA's), (60, 29711), (105, 29399), (107, 29390), (108, 29381), (110, 29351),

Gene: Applejack_42 Start: 32017, Stop: 31538, Start Num: 33

Candidate Starts for Applejack_42:

(14, 32089), (20, 32050), (Start: 33 @32017 has 208 MA's), (57, 31936), (76, 31846), (88, 31783), (91, 31774), (108, 31627), (112, 31591),

Gene: Aragog_41 Start: 32083, Stop: 31556, Start Num: 32

Candidate Starts for Aragog_41:

(Start: 32 @32083 has 38 MA's), (62, 31948), (65, 31942), (92, 31798), (114, 31579),

Gene: Arcanine_48 Start: 35327, Stop: 34836, Start Num: 33

Candidate Starts for Arcanine_48:

(14, 35399), (20, 35360), (Start: 33 @35327 has 208 MA's), (57, 35246), (65, 35225), (76, 35156), (88, 35093), (91, 35084), (108, 34925), (112, 34889),

Gene: ArcherNM_45 Start: 33685, Stop: 33152, Start Num: 19

Candidate Starts for ArcherNM_45:

(Start: 19 @33685 has 64 MA's), (Start: 24 @33670 has 227 MA's), (52, 33595), (62, 33562), (72, 33535), (75, 33490), (76, 33487), (77, 33484), (79, 33460), (92, 33421), (105, 33265), (108, 33247),

Gene: Archetta_42 Start: 32613, Stop: 32086, Start Num: 32

Candidate Starts for Archetta_42:

(Start: 32 @32613 has 38 MA's), (62, 32478), (65, 32472), (92, 32328), (114, 32109),

Gene: Arissanae_49 Start: 34251, Stop: 33733, Start Num: 24

Candidate Starts for Arissanae_49:

(Start: 19 @34266 has 64 MA's), (Start: 24 @34251 has 227 MA's), (53, 34158), (62, 34137), (75, 34065), (79, 34035), (92, 33996), (105, 33840),

Gene: Arlo_45 Start: 34984, Stop: 34493, Start Num: 33

Candidate Starts for Arlo_45:

(14, 35056), (20, 35017), (Start: 33 @34984 has 208 MA's), (57, 34903), (65, 34882), (76, 34813), (88, 34750), (91, 34741), (108, 34582), (112, 34546),

Gene: Artemis2UCLA_52 Start: 32678, Stop: 31923, Start Num: 1

Candidate Starts for Artemis2UCLA_52:

(Start: 1 @32678 has 4 MA's), (2, 32663), (3, 32642), (4, 32612), (5, 32606), (Start: 24 @32480 has 227 MA's), (76, 32270), (77, 32267), (92, 32204), (94, 32195), (105, 32033), (106, 32030),

Gene: Arturo_48 Start: 33662, Stop: 33129, Start Num: 28

Candidate Starts for Arturo_48:

(Start: 28 @33662 has 159 MA's), (82, 33404), (92, 33371), (101, 33332), (112, 33170),

Gene: Ashballer_48 Start: 36113, Stop: 35622, Start Num: 33

Candidate Starts for Ashballer_48:

(Start: 33 @36113 has 208 MA's), (57, 36032), (65, 36011), (76, 35942), (88, 35879), (91, 35870), (108, 35711), (112, 35675),

Gene: Astro_46 Start: 31898, Stop: 31377, Start Num: 34

Candidate Starts for Astro_46:

(Start: 34 @31898 has 11 MA's), (62, 31781), (78, 31682), (92, 31631), (93, 31625), (114, 31400),

Gene: Atkinbua_49 Start: 35740, Stop: 35249, Start Num: 33
Candidate Starts for Atkinbua_49:
(Start: 33 @35740 has 208 MA's), (57, 35659), (65, 35638), (88, 35506), (91, 35497), (108, 35338),
(112, 35302),

Gene: AugsMagnumOpus_56 Start: 33848, Stop: 33258, Start Num: 24
Candidate Starts for AugsMagnumOpus_56:
(Start: 24 @33848 has 227 MA's), (Start: 29 @33842 has 1 MA's), (60, 33698), (65, 33689), (73,
33662), (82, 33578), (105, 33374), (110, 33326),

Gene: AvatarAhPeg_47 Start: 33169, Stop: 32621, Start Num: 28
Candidate Starts for AvatarAhPeg_47:
(Start: 28 @33169 has 159 MA's), (66, 33022), (92, 32872), (106, 32710), (112, 32662),

Gene: Avle17_49 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for Avle17_49:
(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's),
(82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: B1_45 Start: 31865, Stop: 31290, Start Num: 28
Candidate Starts for B1_45:
(Start: 13 @31922 has 1 MA's), (Start: 15 @31907 has 2 MA's), (Start: 16 @31895 has 23 MA's),
(Start: 28 @31865 has 159 MA's), (41, 31793), (65, 31715), (72, 31682), (73, 31679), (82, 31595), (94,
31550), (106, 31382), (112, 31331),

Gene: BABullseye_46 Start: 30456, Stop: 29878, Start Num: 24
Candidate Starts for BABullseye_46:
(Start: 19 @30471 has 64 MA's), (Start: 24 @30456 has 227 MA's), (57, 30345), (65, 30327), (95,
30165), (101, 30138), (105, 29988), (106, 29985),

Gene: BK1_43 Start: 34340, Stop: 33849, Start Num: 33
Candidate Starts for BK1_43:
(14, 34412), (20, 34373), (Start: 33 @34340 has 208 MA's), (57, 34259), (65, 34238), (82, 34130), (91,
34097), (108, 33938), (112, 33902),

Gene: BPBiebs31_48 Start: 35699, Stop: 35208, Start Num: 33
Candidate Starts for BPBiebs31_48:
(14, 35771), (20, 35732), (Start: 33 @35699 has 208 MA's), (57, 35618), (65, 35597), (76, 35528), (88,
35465), (91, 35456), (108, 35297), (112, 35261),

Gene: Baby16_49 Start: 33399, Stop: 32860, Start Num: 28
Candidate Starts for Baby16_49:
(Start: 13 @33456 has 1 MA's), (Start: 15 @33441 has 2 MA's), (Start: 28 @33399 has 159 MA's),
(82, 33141), (92, 33108), (101, 33069), (112, 32901),

Gene: BabyBack_49 Start: 34396, Stop: 33866, Start Num: 19
Candidate Starts for BabyBack_49:
(Start: 19 @34396 has 64 MA's), (Start: 24 @34381 has 227 MA's), (66, 34276), (78, 34189), (82,
34168), (91, 34138), (92, 34135), (105, 33976), (110, 33931),

Gene: BabyJohn_48 Start: 33689, Stop: 33126, Start Num: 27
Candidate Starts for BabyJohn_48:

(Start: 13 @33746 has 1 MA's), (Start: 15 @33731 has 2 MA's), (Start: 16 @33719 has 23 MA's),
(Start: 27 @33689 has 7 MA's), (41, 33620), (65, 33542), (73, 33506), (82, 33422), (112, 33167),

Gene: BabyRay_50 Start: 33653, Stop: 33060, Start Num: 16

Candidate Starts for BabyRay_50:

(Start: 13 @33680 has 1 MA's), (Start: 15 @33665 has 2 MA's), (Start: 16 @33653 has 23 MA's),
(Start: 27 @33623 has 7 MA's), (41, 33554), (65, 33476), (72, 33443), (73, 33440), (82, 33356), (91,
33323), (112, 33101),

Gene: Bachome_52 Start: 33251, Stop: 32685, Start Num: 24

Candidate Starts for Bachome_52:

(Start: 24 @33251 has 227 MA's), (71, 33098), (96, 32957), (105, 32798),

Gene: Backyardigan_47 Start: 33394, Stop: 32855, Start Num: 28

Candidate Starts for Backyardigan_47:

(Start: 13 @33451 has 1 MA's), (Start: 15 @33436 has 2 MA's), (Start: 28 @33394 has 159 MA's),
(82, 33136), (92, 33103), (101, 33064), (112, 32896),

Gene: BaconJack_50 Start: 36404, Stop: 35910, Start Num: 33

Candidate Starts for BaconJack_50:

(Start: 33 @36404 has 208 MA's), (57, 36323), (65, 36302), (82, 36194), (88, 36170), (91, 36161),
(108, 35999), (112, 35963),

Gene: Bactobuster_49 Start: 34631, Stop: 34086, Start Num: 24

Candidate Starts for Bactobuster_49:

(Start: 19 @34646 has 64 MA's), (Start: 24 @34631 has 227 MA's), (74, 34502), (76, 34460), (87,
34403), (91, 34391), (95, 34370), (101, 34343), (105, 34193), (108, 34175),

Gene: Badger_47 Start: 33362, Stop: 32823, Start Num: 28

Candidate Starts for Badger_47:

(Start: 13 @33419 has 1 MA's), (Start: 15 @33404 has 2 MA's), (Start: 28 @33362 has 159 MA's),
(82, 33104), (92, 33071), (101, 33032), (112, 32864),

Gene: Baehexic_49 Start: 33840, Stop: 33316, Start Num: 19

Candidate Starts for Baehexic_49:

(Start: 19 @33840 has 64 MA's), (Start: 24 @33825 has 227 MA's), (49, 33756), (62, 33720), (72,
33693), (75, 33648), (77, 33642), (79, 33618), (82, 33606), (92, 33579), (94, 33570), (97, 33552),
(105, 33429),

Gene: BangNhom_50 Start: 33807, Stop: 33271, Start Num: 28

Candidate Starts for BangNhom_50:

(12, 33870), (Start: 28 @33807 has 159 MA's), (82, 33549), (92, 33516), (101, 33477), (112, 33312),

Gene: Barriga_48 Start: 35242, Stop: 34751, Start Num: 33

Candidate Starts for Barriga_48:

(Start: 33 @35242 has 208 MA's), (57, 35161), (65, 35140), (88, 35008), (91, 34999), (108, 34840),
(112, 34804),

Gene: Bartimeaus_49 Start: 33390, Stop: 32851, Start Num: 28

Candidate Starts for Bartimeaus_49:

(Start: 13 @33447 has 1 MA's), (Start: 15 @33432 has 2 MA's), (Start: 28 @33390 has 159 MA's),
(82, 33132), (92, 33099), (101, 33060), (112, 32892),

Gene: Battleship_56 Start: 33029, Stop: 32463, Start Num: 36

Candidate Starts for Battleship_56:

(Start: 36 @33029 has 19 MA's), (37, 33023), (57, 32918), (67, 32891), (70, 32888), (84, 32777), (90, 32756), (92, 32747), (94, 32738), (112, 32519),

Gene: Beatrix_47 Start: 36955, Stop: 36464, Start Num: 33

Candidate Starts for Beatrix_47:

(14, 37027), (20, 36988), (Start: 33 @36955 has 208 MA's), (57, 36874), (65, 36853), (88, 36721), (91, 36712), (108, 36553), (112, 36517),

Gene: Beauxregard13_53 Start: 33860, Stop: 33270, Start Num: 24

Candidate Starts for Beauxregard13_53:

(Start: 24 @33860 has 227 MA's), (Start: 29 @33854 has 1 MA's), (60, 33710), (65, 33701), (73, 33674), (82, 33590), (105, 33386), (110, 33338),

Gene: Beemo_50 Start: 33717, Stop: 33154, Start Num: 24

Candidate Starts for Beemo_50:

(Start: 19 @33732 has 64 MA's), (Start: 24 @33717 has 227 MA's), (66, 33591), (78, 33501), (101, 33402), (105, 33261),

Gene: BeesKnees_48 Start: 35448, Stop: 34954, Start Num: 33

Candidate Starts for BeesKnees_48:

(Start: 33 @35448 has 208 MA's), (57, 35367), (65, 35346), (82, 35238), (88, 35214), (91, 35205), (108, 35046), (112, 35010),

Gene: Belenaria_39 Start: 29797, Stop: 29273, Start Num: 31

Candidate Starts for Belenaria_39:

(Start: 31 @29797 has 36 MA's), (60, 29692), (105, 29380), (107, 29371), (108, 29362), (110, 29332),

Gene: BellusTerra_50 Start: 33389, Stop: 32850, Start Num: 28

Candidate Starts for BellusTerra_50:

(Start: 13 @33446 has 1 MA's), (Start: 15 @33431 has 2 MA's), (Start: 28 @33389 has 159 MA's), (82, 33131), (92, 33098), (101, 33059), (112, 32891),

Gene: Benedict_45 Start: 32275, Stop: 31751, Start Num: 32

Candidate Starts for Benedict_45:

(Start: 32 @32275 has 38 MA's), (62, 32143), (65, 32137), (92, 31993),

Gene: BengiVuitton_52 Start: 34166, Stop: 33642, Start Num: 24

Candidate Starts for BengiVuitton_52:

(Start: 19 @34181 has 64 MA's), (Start: 24 @34166 has 227 MA's), (56, 34061), (72, 34016), (82, 33929), (92, 33902), (105, 33752), (108, 33734), (110, 33704),

Gene: Benvolio_47 Start: 33106, Stop: 32576, Start Num: 19

Candidate Starts for Benvolio_47:

(Start: 19 @33106 has 64 MA's), (Start: 24 @33091 has 227 MA's), (62, 32977), (72, 32950), (75, 32905), (77, 32899), (79, 32875), (92, 32836), (94, 32827), (105, 32686), (108, 32668), (110, 32638),

Gene: Bethlehem_47 Start: 36106, Stop: 35615, Start Num: 33

Candidate Starts for Bethlehem_47:

(Start: 33 @36106 has 208 MA's), (57, 36025), (65, 36004), (88, 35872), (91, 35863), (108, 35704), (112, 35668),

Gene: Bexan_46 Start: 36633, Stop: 36142, Start Num: 33

Candidate Starts for Bexan_46:

(14, 36705), (20, 36666), (Start: 33 @36633 has 208 MA's), (57, 36552), (65, 36531), (88, 36399), (91, 36390), (108, 36231), (112, 36195),

Gene: BiancaTri92_50 Start: 34471, Stop: 33944, Start Num: 24

Candidate Starts for BiancaTri92_50:

(Start: 19 @34486 has 64 MA's), (Start: 24 @34471 has 227 MA's), (49, 34387), (62, 34345), (72, 34318), (75, 34273), (77, 34267), (79, 34243), (82, 34231), (92, 34204), (105, 34054), (108, 34036), (110, 34006),

Gene: Big3_46 Start: 35559, Stop: 35068, Start Num: 33

Candidate Starts for Big3_46:

(Start: 33 @35559 has 208 MA's), (57, 35478), (65, 35457), (88, 35325), (91, 35316), (108, 35157), (112, 35121),

Gene: BigMau_48 Start: 35214, Stop: 34723, Start Num: 33

Candidate Starts for BigMau_48:

(14, 35286), (20, 35247), (Start: 33 @35214 has 208 MA's), (57, 35133), (65, 35112), (76, 35043), (88, 34980), (91, 34971), (108, 34812), (112, 34776),

Gene: BigPaolini_47 Start: 34397, Stop: 33906, Start Num: 33

Candidate Starts for BigPaolini_47:

(14, 34469), (20, 34430), (Start: 33 @34397 has 208 MA's), (57, 34316), (65, 34295), (76, 34226), (88, 34163), (91, 34154), (112, 33959),

Gene: Bigfoot_43 Start: 34618, Stop: 34127, Start Num: 33

Candidate Starts for Bigfoot_43:

(14, 34690), (20, 34651), (Start: 33 @34618 has 208 MA's), (57, 34537), (65, 34516), (76, 34447), (88, 34384), (91, 34375), (108, 34216), (112, 34180),

Gene: BillKnuckles_47 Start: 36158, Stop: 35667, Start Num: 33

Candidate Starts for BillKnuckles_47:

(Start: 33 @36158 has 208 MA's), (57, 36077), (65, 36056), (76, 35987), (82, 35948), (88, 35924), (91, 35915), (108, 35756), (112, 35720),

Gene: Bircsak_46 Start: 35971, Stop: 35480, Start Num: 33

Candidate Starts for Bircsak_46:

(14, 36043), (20, 36004), (Start: 33 @35971 has 208 MA's), (57, 35890), (65, 35869), (76, 35800), (82, 35761), (88, 35737), (91, 35728), (108, 35569), (112, 35533),

Gene: Blackmoor_49 Start: 33390, Stop: 32851, Start Num: 28

Candidate Starts for Blackmoor_49:

(Start: 13 @33447 has 1 MA's), (Start: 15 @33432 has 2 MA's), (Start: 28 @33390 has 159 MA's), (82, 33132), (92, 33099), (101, 33060), (112, 32892),

Gene: Blinn1_55 Start: 32877, Stop: 32299, Start Num: 24

Candidate Starts for Blinn1_55:

(Start: 19 @32892 has 64 MA's), (Start: 24 @32877 has 227 MA's), (60, 32748), (95, 32577), (101, 32550), (105, 32409), (106, 32406),

Gene: BluSpix_45 Start: 31820, Stop: 31326, Start Num: 33

Candidate Starts for BluSpix_45:

(Start: 33 @31820 has 208 MA's), (57, 31739), (65, 31718), (88, 31586), (91, 31577), (108, 31418), (112, 31382),

Gene: Blue_47 Start: 35881, Stop: 35390, Start Num: 33

Candidate Starts for Blue_47:

(Start: 33 @35881 has 208 MA's), (57, 35800), (65, 35779), (76, 35710), (88, 35647), (91, 35638), (108, 35479), (112, 35443),

Gene: Blue7_54 Start: 32748, Stop: 32002, Start Num: 1

Candidate Starts for Blue7_54:

(Start: 1 @32748 has 4 MA's), (2, 32733), (3, 32712), (4, 32682), (5, 32676), (Start: 24 @32550 has 227 MA's), (76, 32340), (77, 32337), (92, 32274), (94, 32265), (105, 32112), (106, 32109),

Gene: BlueBird_52 Start: 33721, Stop: 33158, Start Num: 27

Candidate Starts for BlueBird_52:

(Start: 13 @33778 has 1 MA's), (Start: 15 @33763 has 2 MA's), (Start: 16 @33751 has 23 MA's), (Start: 27 @33721 has 7 MA's), (41, 33652), (65, 33574), (73, 33538), (82, 33454), (112, 33199),

Gene: Bluefalcon_41 Start: 32577, Stop: 32050, Start Num: 32

Candidate Starts for Bluefalcon_41:

(Start: 32 @32577 has 38 MA's), (62, 32442), (65, 32436), (92, 32292),

Gene: Bob3_45 Start: 34564, Stop: 34073, Start Num: 33

Candidate Starts for Bob3_45:

(14, 34636), (20, 34597), (Start: 33 @34564 has 208 MA's), (57, 34483), (65, 34462), (76, 34393), (88, 34330), (91, 34321), (108, 34162), (112, 34126),

Gene: BobSwaget_46 Start: 32491, Stop: 31973, Start Num: 24

Candidate Starts for BobSwaget_46:

(17, 32518), (Start: 19 @32506 has 64 MA's), (Start: 24 @32491 has 227 MA's), (49, 32419), (62, 32383), (65, 32377), (72, 32356), (77, 32305), (79, 32281), (82, 32269), (92, 32242), (105, 32083), (108, 32065), (110, 32035),

Gene: BobbyDazzler_39 Start: 29844, Stop: 29320, Start Num: 31

Candidate Starts for BobbyDazzler_39:

(Start: 31 @29844 has 36 MA's), (60, 29739), (105, 29427), (107, 29418), (108, 29409), (110, 29379),

Gene: BogosyJay_49 Start: 33444, Stop: 32878, Start Num: 24

Candidate Starts for BogosyJay_49:

(Start: 19 @33459 has 64 MA's), (Start: 24 @33444 has 227 MA's), (56, 33342), (57, 33339), (78, 33228), (101, 33129), (105, 32985),

Gene: Bombshell_49 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for Bombshell_49:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: Bonamassa_43 Start: 32602, Stop: 32075, Start Num: 32

Candidate Starts for Bonamassa_43:

(Start: 32 @32602 has 38 MA's), (62, 32467), (65, 32461), (92, 32317), (113, 32116), (114, 32098),

Gene: Bonanza_39 Start: 29772, Stop: 29248, Start Num: 31

Candidate Starts for Bonanza_39:

(Start: 31 @29772 has 36 MA's), (60, 29667), (105, 29355), (107, 29346), (108, 29337), (110, 29307),

Gene: Bones_47 Start: 35893, Stop: 35402, Start Num: 33

Candidate Starts for Bones_47:

(Start: 33 @35893 has 208 MA's), (57, 35812), (65, 35791), (76, 35722), (82, 35683), (88, 35659), (91, 35650), (108, 35491), (112, 35455),

Gene: Boohoo_54 Start: 32758, Stop: 32216, Start Num: 36

Candidate Starts for Boohoo_54:

(Start: 36 @32758 has 19 MA's), (37, 32752), (57, 32647), (67, 32620), (70, 32617), (84, 32506), (90, 32485), (92, 32476), (94, 32467), (105, 32320), (110, 32275),

Gene: Bowtie_51 Start: 33278, Stop: 32709, Start Num: 24

Candidate Starts for Bowtie_51:

(Start: 24 @33278 has 227 MA's), (62, 33143), (96, 32978), (105, 32822),

Gene: Bradman_49 Start: 32541, Stop: 32137, Start Num: 62

Candidate Starts for Bradman_49:

(Start: 24 @32652 has 227 MA's), (49, 32574), (62, 32541), (77, 32463), (79, 32439), (92, 32400), (105, 32247),

Gene: Bradshaw_39 Start: 29798, Stop: 29274, Start Num: 31

Candidate Starts for Bradshaw_39:

(Start: 31 @29798 has 36 MA's), (60, 29693), (105, 29381), (107, 29372), (108, 29363), (110, 29333),

Gene: BreSam8_53 Start: 33850, Stop: 33260, Start Num: 24

Candidate Starts for BreSam8_53:

(Start: 24 @33850 has 227 MA's), (Start: 29 @33844 has 1 MA's), (60, 33700), (65, 33691), (73, 33664), (82, 33580), (105, 33376), (110, 33328),

Gene: Briton15_49 Start: 35674, Stop: 35183, Start Num: 33

Candidate Starts for Briton15_49:

(Start: 33 @35674 has 208 MA's), (57, 35593), (65, 35572), (76, 35503), (88, 35440), (91, 35431), (108, 35272), (112, 35236),

Gene: Broseidon_49 Start: 33390, Stop: 32851, Start Num: 28

Candidate Starts for Broseidon_49:

(Start: 13 @33447 has 1 MA's), (Start: 15 @33432 has 2 MA's), (Start: 28 @33390 has 159 MA's), (82, 33132), (92, 33099), (101, 33060), (112, 32892),

Gene: Bruiser_48 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Bruiser_48:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Bruns_46 Start: 35176, Stop: 34685, Start Num: 33

Candidate Starts for Bruns_46:

(14, 35248), (20, 35209), (Start: 33 @35176 has 208 MA's), (57, 35095), (65, 35074), (88, 34942), (91, 34933), (108, 34774), (112, 34738),

Gene: Bryce_39 Start: 29773, Stop: 29249, Start Num: 31

Candidate Starts for Bryce_39:

(Start: 31 @29773 has 36 MA's), (60, 29668), (105, 29356), (107, 29347), (108, 29338), (110, 29308),

Gene: BubbleTrouble_48 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for BubbleTrouble_48:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Bud_50 Start: 32828, Stop: 32259, Start Num: 24

Candidate Starts for Bud_50:

(Start: 24 @32828 has 227 MA's), (62, 32693), (96, 32528), (105, 32372),

Gene: Bugatti_51 Start: 33721, Stop: 33158, Start Num: 27

Candidate Starts for Bugatti_51:

(Start: 13 @33778 has 1 MA's), (Start: 15 @33763 has 2 MA's), (Start: 16 @33751 has 23 MA's), (Start: 27 @33721 has 7 MA's), (41, 33652), (65, 33574), (73, 33538), (82, 33454), (112, 33199),

Gene: Buggy_52 Start: 34195, Stop: 33686, Start Num: 24

Candidate Starts for Buggy_52:

(Start: 19 @34210 has 64 MA's), (Start: 24 @34195 has 227 MA's), (49, 34126), (62, 34090), (72, 34063), (75, 34018), (77, 34012), (79, 33988), (82, 33976), (92, 33949), (94, 33940), (97, 33922), (105, 33799),

Gene: Bumblebee11_47 Start: 33364, Stop: 32825, Start Num: 28

Candidate Starts for Bumblebee11_47:

(Start: 13 @33421 has 1 MA's), (Start: 15 @33406 has 2 MA's), (Start: 28 @33364 has 159 MA's), (82, 33106), (92, 33073), (101, 33034), (112, 32866),

Gene: Burger_47 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Burger_47:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Burton_47 Start: 35109, Stop: 34618, Start Num: 33

Candidate Starts for Burton_47:

(Start: 33 @35109 has 208 MA's), (57, 35028), (65, 35007), (76, 34938), (88, 34875), (91, 34866), (108, 34707), (112, 34671),

Gene: Buttons_45 Start: 33856, Stop: 33365, Start Num: 33

Candidate Starts for Buttons_45:

(Start: 33 @33856 has 208 MA's), (57, 33775), (65, 33754), (88, 33622), (91, 33613), (108, 33454), (112, 33418),

Gene: BuzzBuzz_51 Start: 33884, Stop: 33297, Start Num: 24

Candidate Starts for BuzzBuzz_51:

(Start: 24 @33884 has 227 MA's), (Start: 29 @33878 has 1 MA's), (60, 33740), (65, 33731), (73, 33704), (74, 33701), (78, 33641), (82, 33620), (105, 33413), (110, 33365),

Gene: Bxb1_43 Start: 34921, Stop: 34430, Start Num: 33

Candidate Starts for Bxb1_43:

(14, 34993), (20, 34954), (Start: 33 @34921 has 208 MA's), (57, 34840), (65, 34819), (82, 34711), (88, 34687), (91, 34678), (108, 34519), (112, 34483),

Gene: Bxz2_49 Start: 33885, Stop: 33304, Start Num: 29

Candidate Starts for Bxz2_49:

(Start: 24 @33891 has 227 MA's), (Start: 29 @33885 has 1 MA's), (60, 33747), (65, 33738), (73, 33711), (74, 33708), (78, 33648), (82, 33627), (105, 33420), (110, 33372),

Gene: C3_48 Start: 33887, Stop: 33309, Start Num: 24

Candidate Starts for C3_48:

(Start: 19 @33902 has 64 MA's), (Start: 24 @33887 has 227 MA's), (60, 33773), (65, 33767), (72, 33740), (76, 33692), (80, 33662), (96, 33596), (97, 33593), (98, 33584), (101, 33575), (105, 33422),

Gene: CRB1_54 Start: 34574, Stop: 34032, Start Num: 19

Candidate Starts for CRB1_54:

(Start: 19 @34574 has 64 MA's), (Start: 24 @34559 has 227 MA's), (56, 34454), (72, 34409), (75, 34364), (79, 34334), (92, 34295), (105, 34142), (108, 34124), (110, 34094),

Gene: CactusRose_44 Start: 34746, Stop: 34255, Start Num: 33

Candidate Starts for CactusRose_44:

(Start: 33 @34746 has 208 MA's), (57, 34665), (65, 34644), (76, 34575), (82, 34536), (88, 34512), (91, 34503), (108, 34344), (112, 34308),

Gene: Caelakin_49 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Caelakin_49:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Camperdownii_47 Start: 33062, Stop: 32523, Start Num: 28

Candidate Starts for Camperdownii_47:

(Start: 13 @33119 has 1 MA's), (Start: 15 @33104 has 2 MA's), (Start: 28 @33062 has 159 MA's), (82, 32804), (92, 32771), (101, 32732), (112, 32564),

Gene: Candra_52 Start: 32814, Stop: 32242, Start Num: 24

Candidate Starts for Candra_52:

(Start: 19 @32829 has 64 MA's), (Start: 24 @32814 has 227 MA's), (57, 32703), (65, 32685), (95, 32523), (101, 32496), (105, 32352), (106, 32349),

Gene: Caraxes_50 Start: 32358, Stop: 31759, Start Num: 24

Candidate Starts for Caraxes_50:

(Start: 19 @32373 has 64 MA's), (Start: 24 @32358 has 227 MA's), (60, 32208), (76, 32133), (85, 32088), (101, 32016), (105, 31869), (106, 31866), (108, 31851), (110, 31824),

Gene: Carlyle_46 Start: 33607, Stop: 33113, Start Num: 33

Candidate Starts for Carlyle_46:

(Start: 33 @33607 has 208 MA's), (57, 33526), (65, 33505), (76, 33436), (88, 33373), (91, 33364), (108, 33205), (112, 33169),

Gene: Catalina_51 Start: 33635, Stop: 33105, Start Num: 19

Candidate Starts for Catalina_51:

(Start: 19 @33635 has 64 MA's), (Start: 24 @33620 has 227 MA's), (52, 33527), (62, 33503), (77, 33425), (92, 33362), (105, 33212),

Gene: Caviar_49 Start: 33695, Stop: 33096, Start Num: 16

Candidate Starts for Caviar_49:

(Start: 13 @33722 has 1 MA's), (Start: 15 @33707 has 2 MA's), (Start: 16 @33695 has 23 MA's), (Start: 27 @33665 has 7 MA's), (41, 33596), (65, 33518), (82, 33398), (112, 33137),

Gene: Centaur_51 Start: 34057, Stop: 33533, Start Num: 19

Candidate Starts for Centaur_51:

(Start: 19 @34057 has 64 MA's), (Start: 24 @34042 has 227 MA's), (49, 33973), (62, 33937), (72, 33910), (75, 33865), (77, 33859), (79, 33835), (82, 33823), (92, 33796), (94, 33787), (97, 33769), (105, 33646),

Gene: CentreCat_49 Start: 33391, Stop: 32852, Start Num: 28

Candidate Starts for CentreCat_49:

(Start: 13 @33448 has 1 MA's), (Start: 15 @33433 has 2 MA's), (Start: 28 @33391 has 159 MA's), (82, 33133), (92, 33100), (101, 33061), (112, 32893),

Gene: Cerulean_50 Start: 33808, Stop: 33272, Start Num: 28

Candidate Starts for Cerulean_50:

(12, 33871), (Start: 28 @33808 has 159 MA's), (82, 33550), (92, 33517), (101, 33478), (112, 33313),

Gene: Chadwick_46 Start: 32252, Stop: 31728, Start Num: 32

Candidate Starts for Chadwick_46:

(Start: 32 @32252 has 38 MA's), (62, 32120), (65, 32114), (92, 31970),

Gene: ChampagnePapi_51 Start: 33807, Stop: 33271, Start Num: 28

Candidate Starts for ChampagnePapi_51:

(12, 33870), (Start: 28 @33807 has 159 MA's), (82, 33549), (92, 33516), (101, 33477), (112, 33312),

Gene: Chanagan_44 Start: 34413, Stop: 33922, Start Num: 33

Candidate Starts for Chanagan_44:

(14, 34485), (20, 34446), (Start: 33 @34413 has 208 MA's), (57, 34332), (65, 34311), (88, 34179), (91, 34170), (108, 34011), (112, 33975),

Gene: Changeling_49 Start: 34250, Stop: 33735, Start Num: 24

Candidate Starts for Changeling_49:

(Start: 19 @34265 has 64 MA's), (Start: 24 @34250 has 227 MA's), (72, 34115), (75, 34070), (77, 34064), (79, 34040), (92, 34001), (105, 33848), (108, 33830),

Gene: Chaph_49 Start: 33399, Stop: 32860, Start Num: 28

Candidate Starts for Chaph_49:

(Start: 13 @33456 has 1 MA's), (Start: 15 @33441 has 2 MA's), (Start: 28 @33399 has 159 MA's), (82, 33141), (92, 33108), (101, 33069), (112, 32901),

Gene: Chargerpower_49 Start: 32641, Stop: 32096, Start Num: 19

Candidate Starts for Chargerpower_49:

(Start: 19 @32641 has 64 MA's), (Start: 24 @32626 has 227 MA's), (43, 32557), (49, 32539), (62, 32497), (72, 32470), (75, 32425), (77, 32419), (82, 32383), (92, 32356), (105, 32200), (106, 32197), (110, 32152),

Gene: Charm_49 Start: 33504, Stop: 32941, Start Num: 24

Candidate Starts for Charm_49:

(Start: 19 @33519 has 64 MA's), (Start: 24 @33504 has 227 MA's), (53, 33414), (64, 33384), (78, 33291), (101, 33192), (105, 33048),

Gene: Chartreuse_51 Start: 32174, Stop: 31602, Start Num: 24

Candidate Starts for Chartreuse_51:

(Start: 19 @32189 has 64 MA's), (Start: 24 @32174 has 227 MA's), (57, 32063), (65, 32045), (95, 31883), (101, 31856), (105, 31712), (106, 31709),

Gene: Che12_52 Start: 32805, Stop: 32197, Start Num: 19

Candidate Starts for Che12_52:

(Start: 19 @32805 has 64 MA's), (Start: 24 @32790 has 227 MA's), (60, 32649), (85, 32529), (101, 32457), (105, 32307), (106, 32304), (110, 32262),

Gene: ChipMunk_52 Start: 35413, Stop: 34883, Start Num: 24

Candidate Starts for ChipMunk_52:

(Start: 19 @35428 has 64 MA's), (Start: 24 @35413 has 227 MA's), (49, 35323), (62, 35287), (72, 35260), (75, 35215), (77, 35209), (79, 35185), (92, 35146), (105, 34993), (108, 34975), (110, 34945),

Gene: Chiqui_48 Start: 33698, Stop: 33135, Start Num: 27

Candidate Starts for Chiqui_48:

(Start: 13 @33755 has 1 MA's), (Start: 15 @33740 has 2 MA's), (Start: 16 @33728 has 23 MA's), (Start: 27 @33698 has 7 MA's), (41, 33629), (65, 33551), (73, 33515), (82, 33431), (112, 33176),

Gene: Chupacabra_47 Start: 33046, Stop: 32486, Start Num: 28

Candidate Starts for Chupacabra_47:

(Start: 28 @33046 has 159 MA's), (41, 32974), (72, 32860), (73, 32857), (89, 32749), (92, 32740), (112, 32533),

Gene: Ciao_47 Start: 35564, Stop: 35061, Start Num: 33

Candidate Starts for Ciao_47:

(14, 35636), (20, 35597), (Start: 33 @35564 has 208 MA's), (57, 35483), (65, 35462), (76, 35393), (88, 35330), (91, 35321), (108, 35153), (112, 35117),

Gene: Cici_48 Start: 33379, Stop: 32840, Start Num: 28

Candidate Starts for Cici_48:

(Start: 13 @33436 has 1 MA's), (Start: 15 @33421 has 2 MA's), (Start: 28 @33379 has 159 MA's), (82, 33121), (92, 33088), (101, 33049), (112, 32881),

Gene: Cindaradix_46 Start: 33000, Stop: 32467, Start Num: 28

Candidate Starts for Cindaradix_46:

(Start: 13 @33057 has 1 MA's), (Start: 15 @33042 has 2 MA's), (Start: 28 @33000 has 159 MA's), (82, 32742), (92, 32709), (101, 32670), (112, 32508),

Gene: Cintron_48 Start: 33365, Stop: 32829, Start Num: 28

Candidate Starts for Cintron_48:

(Start: 13 @33422 has 1 MA's), (Start: 15 @33407 has 2 MA's), (Start: 28 @33365 has 159 MA's), (82, 33107), (92, 33074), (101, 33035), (112, 32870),

Gene: Citius_49 Start: 33409, Stop: 32870, Start Num: 28

Candidate Starts for Citius_49:

(Start: 13 @33466 has 1 MA's), (Start: 15 @33451 has 2 MA's), (Start: 28 @33409 has 159 MA's), (82, 33151), (92, 33118), (101, 33079), (112, 32911),

Gene: Clarenza_48 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for Clarenza_48:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: CloudWang3_52 Start: 32568, Stop: 32023, Start Num: 24

Candidate Starts for CloudWang3_52:

(Start: 1 @32766 has 4 MA's), (2, 32751), (3, 32730), (4, 32700), (5, 32694), (Start: 24 @32568 has 227 MA's), (76, 32358), (77, 32355), (92, 32292), (94, 32283), (105, 32133), (106, 32130),

Gene: Cocoaberry_49 Start: 33392, Stop: 32853, Start Num: 28

Candidate Starts for Cocoaberry_49:

(Start: 13 @33449 has 1 MA's), (Start: 15 @33434 has 2 MA's), (Start: 28 @33392 has 159 MA's), (82, 33134), (92, 33101), (101, 33062), (112, 32894),

Gene: Colbster_53 Start: 33860, Stop: 33270, Start Num: 24

Candidate Starts for Colbster_53:

(Start: 24 @33860 has 227 MA's), (Start: 29 @33854 has 1 MA's), (60, 33710), (65, 33701), (73, 33674), (82, 33590), (105, 33386), (110, 33338),

Gene: Colin_50 Start: 34033, Stop: 33509, Start Num: 24

Candidate Starts for Colin_50:

(Start: 19 @34048 has 64 MA's), (Start: 24 @34033 has 227 MA's), (72, 33886), (75, 33841), (77, 33835), (79, 33811), (92, 33772), (105, 33619), (108, 33601), (110, 33571),

Gene: Commander_49 Start: 33387, Stop: 32848, Start Num: 28

Candidate Starts for Commander_49:

(Start: 13 @33444 has 1 MA's), (Start: 15 @33429 has 2 MA's), (Start: 28 @33387 has 159 MA's), (82, 33129), (92, 33096), (101, 33057), (112, 32889),

Gene: ConceptII_49 Start: 36256, Stop: 35765, Start Num: 33

Candidate Starts for ConceptII_49:

(14, 36328), (20, 36289), (Start: 33 @36256 has 208 MA's), (57, 36175), (65, 36154), (82, 36046), (88, 36022), (91, 36013), (108, 35854), (112, 35818),

Gene: Connomayer_49 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Connomayer_49:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Conquerage_50 Start: 33691, Stop: 33128, Start Num: 24

Candidate Starts for Conquerage_50:

(Start: 19 @33706 has 64 MA's), (Start: 24 @33691 has 227 MA's), (66, 33565), (78, 33475), (101, 33376), (105, 33235),

Gene: Conspiracy_42 Start: 32307, Stop: 31774, Start Num: 32

Candidate Starts for Conspiracy_42:

(Start: 32 @32307 has 38 MA's), (62, 32175), (65, 32169), (92, 32025),

Gene: Coog_42 Start: 32408, Stop: 31872, Start Num: 32

Candidate Starts for Coog_42:

(Start: 32 @32408 has 38 MA's), (62, 32273), (65, 32267), (92, 32123), (114, 31895),

Gene: Cookiedough_52 Start: 32808, Stop: 32215, Start Num: 19

Candidate Starts for Cookiedough_52:

(Start: 19 @32808 has 64 MA's), (Start: 24 @32793 has 227 MA's), (57, 32682), (65, 32664), (95, 32502), (101, 32475), (105, 32325), (106, 32322),

Gene: Corvo_48 Start: 36116, Stop: 35625, Start Num: 33

Candidate Starts for Corvo_48:

(14, 36188), (20, 36149), (Start: 33 @36116 has 208 MA's), (57, 36035), (65, 36014), (88, 35882), (91, 35873), (108, 35714), (112, 35678),

Gene: CosmicSans_39 Start: 29798, Stop: 29274, Start Num: 31

Candidate Starts for CosmicSans_39:

(Start: 31 @29798 has 36 MA's), (60, 29693), (105, 29381), (107, 29372), (108, 29363), (110, 29333),

Gene: Crispicious1_45 Start: 34739, Stop: 34248, Start Num: 33

Candidate Starts for Crispicious1_45:

(14, 34811), (20, 34772), (Start: 33 @34739 has 208 MA's), (57, 34658), (65, 34637), (76, 34568), (82, 34529), (88, 34505), (91, 34496), (108, 34337), (112, 34301),

Gene: Crucio_50 Start: 33650, Stop: 33129, Start Num: 24

Candidate Starts for Crucio_50:

(Start: 19 @33665 has 64 MA's), (Start: 24 @33650 has 227 MA's), (62, 33536), (72, 33509), (75, 33464), (77, 33458), (79, 33434), (92, 33395), (94, 33386), (105, 33239), (108, 33221), (110, 33191),

Gene: Cuco_42 Start: 32356, Stop: 31829, Start Num: 32

Candidate Starts for Cuco_42:

(Start: 32 @32356 has 38 MA's), (62, 32221), (65, 32215), (92, 32071), (114, 31852),

Gene: Cueyllyss_48 Start: 37026, Stop: 36535, Start Num: 33

Candidate Starts for Cueyllyss_48:

(Start: 33 @37026 has 208 MA's), (57, 36945), (65, 36924), (76, 36855), (82, 36816), (88, 36792), (91, 36783), (108, 36624), (112, 36588),

Gene: Cullens_53 Start: 33856, Stop: 33266, Start Num: 24

Candidate Starts for Cullens_53:

(Start: 24 @33856 has 227 MA's), (Start: 29 @33850 has 1 MA's), (60, 33706), (65, 33697), (73, 33670), (82, 33586), (105, 33382), (110, 33334),

Gene: D29_49 Start: 33484, Stop: 32891, Start Num: 19

Candidate Starts for D29_49:

(Start: 19 @33484 has 64 MA's), (Start: 24 @33469 has 227 MA's), (60, 33352), (65, 33346), (72, 33322), (76, 33274), (97, 33175), (98, 33166), (101, 33157), (105, 33004),

Gene: D32_51 Start: 33469, Stop: 32891, Start Num: 24

Candidate Starts for D32_51:

(Start: 19 @33484 has 64 MA's), (Start: 24 @33469 has 227 MA's), (60, 33352), (65, 33346), (72, 33322), (76, 33274), (97, 33175), (98, 33166), (101, 33157), (105, 33004),

Gene: DBQu4n_52 Start: 33468, Stop: 32890, Start Num: 24

Candidate Starts for DBQu4n_52:

(Start: 19 @33483 has 64 MA's), (Start: 24 @33468 has 227 MA's), (65, 33345), (72, 33321), (76, 33273), (97, 33174), (98, 33165), (101, 33156), (105, 33003),

Gene: DD5_46 Start: 36122, Stop: 35631, Start Num: 33

Candidate Starts for DD5_46:

(14, 36194), (20, 36155), (Start: 33 @36122 has 208 MA's), (57, 36041), (65, 36020), (82, 35912), (88, 35888), (91, 35879), (108, 35720), (112, 35684),

Gene: DaHudson_53 Start: 33849, Stop: 33259, Start Num: 24

Candidate Starts for DaHudson_53:

(Start: 24 @33849 has 227 MA's), (Start: 29 @33843 has 1 MA's), (60, 33699), (65, 33690), (73, 33663), (82, 33579), (105, 33375), (110, 33327),

Gene: DaVinci_51 Start: 32228, Stop: 31656, Start Num: 24

Candidate Starts for DaVinci_51:

(Start: 19 @32243 has 64 MA's), (Start: 24 @32228 has 227 MA's), (57, 32117), (65, 32099), (95, 31937), (101, 31910), (105, 31766), (106, 31763),

Gene: Daishi_52 Start: 32725, Stop: 32138, Start Num: 24

Candidate Starts for Daishi_52:

(Start: 24 @32725 has 227 MA's), (Start: 29 @32719 has 1 MA's), (60, 32581), (65, 32572), (73, 32545), (74, 32542), (78, 32482), (82, 32461), (105, 32254), (110, 32206),

Gene: Dalmatian_51 Start: 34042, Stop: 33521, Start Num: 24

Candidate Starts for Dalmatian_51:

(Start: 19 @34057 has 64 MA's), (Start: 24 @34042 has 227 MA's), (62, 33928), (72, 33901), (77, 33850), (79, 33826), (92, 33787), (94, 33778), (105, 33631), (108, 33613), (110, 33583),

Gene: Danforth_46 Start: 31927, Stop: 31406, Start Num: 34

Candidate Starts for Danforth_46:

(Start: 34 @31927 has 11 MA's), (62, 31810), (78, 31711), (92, 31660), (93, 31654), (114, 31429),

Gene: Darrell_52 Start: 34335, Stop: 33751, Start Num: 19

Candidate Starts for Darrell_52:

(Start: 19 @34335 has 64 MA's), (Start: 24 @34320 has 227 MA's), (57, 34215), (78, 34104), (101, 34005), (105, 33858),

Gene: DARTHPhader_47 Start: 34512, Stop: 33961, Start Num: 19

Candidate Starts for DARTHPhader_47:

(Start: 19 @34512 has 64 MA's), (Start: 24 @34497 has 227 MA's), (65, 34371), (82, 34257), (105, 34062), (106, 34059),

Gene: Datway_48 Start: 33350, Stop: 32811, Start Num: 28

Candidate Starts for Datway_48:

(Start: 13 @33407 has 1 MA's), (Start: 15 @33392 has 2 MA's), (Start: 28 @33350 has 159 MA's), (92, 33059), (101, 33020), (112, 32852),

Gene: Deano_48 Start: 33396, Stop: 32857, Start Num: 28

Candidate Starts for Deano_48:

(Start: 13 @33453 has 1 MA's), (Start: 15 @33438 has 2 MA's), (Start: 28 @33396 has 159 MA's), (82, 33138), (92, 33105), (101, 33066), (112, 32898),

Gene: DekHockey33_54 Start: 33050, Stop: 32484, Start Num: 36

Candidate Starts for DekHockey33_54:

(Start: 36 @33050 has 19 MA's), (37, 33044), (57, 32939), (67, 32912), (70, 32909), (84, 32798), (90, 32777), (92, 32768), (94, 32759), (112, 32540),

Gene: Deloris_51 Start: 33835, Stop: 33311, Start Num: 24

Candidate Starts for Deloris_51:

(Start: 19 @33850 has 64 MA's), (Start: 24 @33835 has 227 MA's), (56, 33730), (72, 33685), (77, 33634), (82, 33598), (92, 33571), (105, 33421), (108, 33403), (110, 33373),

Gene: Dexes_47 Start: 36156, Stop: 35665, Start Num: 33

Candidate Starts for Dexes_47:

(Start: 33 @36156 has 208 MA's), (57, 36075), (65, 36054), (88, 35922), (91, 35913), (108, 35754), (112, 35718),

Gene: Dhanush_49 Start: 33391, Stop: 32852, Start Num: 28

Candidate Starts for Dhanush_49:

(Start: 13 @33448 has 1 MA's), (Start: 15 @33433 has 2 MA's), (Start: 28 @33391 has 159 MA's), (82, 33133), (92, 33100), (101, 33061), (112, 32893),

Gene: Dieselweasel_54 Start: 33859, Stop: 33269, Start Num: 24

Candidate Starts for Dieselweasel_54:

(Start: 24 @33859 has 227 MA's), (Start: 29 @33853 has 1 MA's), (60, 33709), (65, 33700), (73, 33673), (82, 33589), (105, 33385), (110, 33337),

Gene: Dignity_52 Start: 34218, Stop: 33691, Start Num: 24

Candidate Starts for Dignity_52:

(Start: 19 @34233 has 64 MA's), (Start: 24 @34218 has 227 MA's), (49, 34131), (62, 34095), (72, 34068), (75, 34023), (77, 34017), (79, 33993), (92, 33954), (105, 33801), (108, 33783), (110, 33753),

Gene: Dinger_39 Start: 29859, Stop: 29335, Start Num: 31

Candidate Starts for Dinger_39:

(Start: 31 @29859 has 36 MA's), (60, 29754), (105, 29442), (107, 29433), (108, 29424), (110, 29394),

Gene: DirtyDunning_48 Start: 33403, Stop: 32870, Start Num: 28

Candidate Starts for DirtyDunning_48:

(Start: 13 @33460 has 1 MA's), (Start: 15 @33445 has 2 MA's), (Start: 28 @33403 has 159 MA's), (82, 33145), (92, 33112), (101, 33073), (112, 32911),

Gene: Discoknowium_41 Start: 32092, Stop: 31565, Start Num: 32

Candidate Starts for Discoknowium_41:

(Start: 32 @32092 has 38 MA's), (62, 31957), (65, 31951), (92, 31807), (114, 31588),

Gene: Dixon_46 Start: 31800, Stop: 31279, Start Num: 34

Candidate Starts for Dixon_46:

(Start: 34 @31800 has 11 MA's), (62, 31683), (78, 31584), (92, 31533), (93, 31527), (114, 31302),

Gene: DontArgue_47 Start: 32271, Stop: 31723, Start Num: 25

Candidate Starts for DontArgue_47:

(Start: 25 @32271 has 1 MA's), (70, 32115), (82, 32010), (92, 31977), (112, 31770),

Gene: Doom_47 Start: 35900, Stop: 35409, Start Num: 33

Candidate Starts for Doom_47:

(14, 35972), (20, 35933), (Start: 33 @35900 has 208 MA's), (57, 35819), (65, 35798), (76, 35729), (82, 35690), (88, 35666), (91, 35657), (108, 35498), (112, 35462),

Gene: Dorothea_52 Start: 32797, Stop: 32225, Start Num: 24

Candidate Starts for Dorothea_52:

(Start: 19 @32812 has 64 MA's), (Start: 24 @32797 has 227 MA's), (57, 32686), (65, 32668), (95, 32506), (101, 32479), (105, 32335), (106, 32332),

Gene: DrFeelGood_45 Start: 35584, Stop: 35093, Start Num: 33

Candidate Starts for DrFeelGood_45:

(14, 35656), (20, 35617), (Start: 33 @35584 has 208 MA's), (57, 35503), (65, 35482), (82, 35374), (88, 35350), (91, 35341), (108, 35182), (112, 35146),

Gene: Drake55_52 Start: 34136, Stop: 33609, Start Num: 19

Candidate Starts for Drake55_52:

(Start: 19 @34136 has 64 MA's), (Start: 24 @34121 has 227 MA's), (49, 34052), (62, 34016), (72, 33989), (77, 33938), (79, 33914), (82, 33902), (92, 33875), (94, 33866), (97, 33848), (105, 33722),

Gene: Drake94_46 Start: 32305, Stop: 31757, Start Num: 28

Candidate Starts for Drake94_46:

(Start: 28 @32305 has 159 MA's), (41, 32236), (66, 32152), (68, 32149), (72, 32131), (73, 32128), (82, 32044), (92, 32011), (112, 31804),

Gene: DreamCatcher_50 Start: 36623, Stop: 36132, Start Num: 33

Candidate Starts for DreamCatcher_50:

(Start: 33 @36623 has 208 MA's), (57, 36542), (65, 36521), (88, 36389), (91, 36380), (102, 36329), (108, 36221), (112, 36185),

Gene: DreamTeam1_49 Start: 33360, Stop: 32815, Start Num: 24

Candidate Starts for DreamTeam1_49:

(Start: 19 @33375 has 64 MA's), (Start: 24 @33360 has 227 MA's), (64, 33258), (78, 33165), (101, 33066), (105, 32922),

Gene: Dreamboat_49 Start: 35340, Stop: 34837, Start Num: 33

Candidate Starts for Dreamboat_49:

(14, 35412), (20, 35373), (Start: 33 @35340 has 208 MA's), (57, 35259), (65, 35238), (82, 35130), (88, 35106), (91, 35097), (108, 34929), (112, 34893),

Gene: DroogsArmy_45 Start: 34322, Stop: 33822, Start Num: 28

Candidate Starts for DroogsArmy_45:

(Start: 28 @34322 has 159 MA's), (62, 34217), (82, 34097), (92, 34067), (112, 33869),

Gene: DropBear_50 Start: 33590, Stop: 33039, Start Num: 27

Candidate Starts for DropBear_50:

(Start: 13 @33647 has 1 MA's), (Start: 15 @33632 has 2 MA's), (Start: 16 @33620 has 23 MA's), (Start: 27 @33590 has 7 MA's), (41, 33521), (65, 33443), (73, 33407), (82, 33323), (112, 33080),

Gene: Druantia_49 Start: 33391, Stop: 32852, Start Num: 28

Candidate Starts for Druantia_49:

(Start: 13 @33448 has 1 MA's), (Start: 15 @33433 has 2 MA's), (Start: 28 @33391 has 159 MA's), (82, 33133), (92, 33100), (101, 33061), (112, 32893),

Gene: Dublin_41 Start: 32129, Stop: 31593, Start Num: 32

Candidate Starts for Dublin_41:

(Start: 32 @32129 has 38 MA's), (62, 31994), (65, 31988), (92, 31844),

Gene: DudeLittle_49 Start: 33784, Stop: 33263, Start Num: 24

Candidate Starts for DudeLittle_49:

(Start: 19 @33799 has 64 MA's), (Start: 24 @33784 has 227 MA's), (62, 33670), (72, 33643), (77, 33592), (79, 33568), (92, 33529), (105, 33373), (108, 33355), (110, 33325),

Gene: Dulcie_47 Start: 35420, Stop: 34929, Start Num: 33

Candidate Starts for Dulcie_47:

(Start: 33 @35420 has 208 MA's), (57, 35339), (65, 35318), (76, 35249), (82, 35210), (88, 35186), (91, 35177), (112, 34982),

Gene: Duplo_52 Start: 33506, Stop: 32928, Start Num: 24

Candidate Starts for Duplo_52:

(Start: 19 @33521 has 64 MA's), (Start: 24 @33506 has 227 MA's), (60, 33389), (65, 33383), (72, 33359), (76, 33311), (80, 33281), (97, 33212), (98, 33203), (101, 33194), (105, 33041),

Gene: Dussy_49 Start: 35800, Stop: 35309, Start Num: 33

Candidate Starts for Dussy_49:

(14, 35872), (20, 35833), (Start: 33 @35800 has 208 MA's), (57, 35719), (65, 35698), (76, 35629), (88, 35566), (91, 35557), (108, 35398), (112, 35362),

Gene: DustyMartin_52 Start: 33124, Stop: 32570, Start Num: 28

Candidate Starts for DustyMartin_52:

(Start: 28 @33124 has 159 MA's), (41, 33055), (70, 32962), (73, 32941), (82, 32857), (89, 32833), (92, 32824), (94, 32815), (112, 32617),

Gene: Dynamix_48 Start: 35419, Stop: 34928, Start Num: 33

Candidate Starts for Dynamix_48:

(Start: 33 @35419 has 208 MA's), (57, 35338), (65, 35317), (88, 35185), (91, 35176), (102, 35125), (108, 35017), (112, 34981),

Gene: EZMoney23_48 Start: 33569, Stop: 33063, Start Num: 24

Candidate Starts for EZMoney23_48:

(Start: 19 @33584 has 64 MA's), (Start: 24 @33569 has 227 MA's), (62, 33476), (72, 33449), (75, 33404), (77, 33398), (79, 33374), (92, 33335), (105, 33176), (108, 33158),

Gene: Eagle_49 Start: 33413, Stop: 32874, Start Num: 28

Candidate Starts for Eagle_49:

(Start: 13 @33470 has 1 MA's), (Start: 15 @33455 has 2 MA's), (Start: 28 @33413 has 159 MA's), (82, 33155), (92, 33122), (101, 33083), (112, 32915),

Gene: EagleEye_52 Start: 33301, Stop: 32738, Start Num: 19

Candidate Starts for EagleEye_52:

(Start: 19 @33301 has 64 MA's), (Start: 24 @33286 has 227 MA's), (54, 33169), (75, 33067), (77, 33061), (92, 32998), (94, 32989), (105, 32845),

Gene: Eaglepride_49 Start: 33105, Stop: 32554, Start Num: 28

Candidate Starts for Eaglepride_49:

(11, 33174), (Start: 28 @33105 has 159 MA's), (68, 32946), (92, 32808), (112, 32601),

Gene: Eapen_49 Start: 33383, Stop: 32844, Start Num: 28

Candidate Starts for Eapen_49:

(Start: 13 @33440 has 1 MA's), (Start: 15 @33425 has 2 MA's), (Start: 28 @33383 has 159 MA's), (82, 33125), (92, 33092), (101, 33053), (112, 32885),

Gene: Ebony_50 Start: 32845, Stop: 32276, Start Num: 24

Candidate Starts for Ebony_50:

(Start: 24 @32845 has 227 MA's), (62, 32710), (96, 32545), (105, 32389),

Gene: Echild_50 Start: 33130, Stop: 32600, Start Num: 19

Candidate Starts for Echild_50:

(Start: 19 @33130 has 64 MA's), (Start: 24 @33115 has 227 MA's), (62, 33001), (72, 32974), (75, 32929), (77, 32923), (79, 32899), (92, 32860), (94, 32851), (105, 32710), (108, 32692), (110, 32662),

Gene: Edison31_47 Start: 33061, Stop: 32510, Start Num: 28

Candidate Starts for Edison31_47:

(Start: 28 @33061 has 159 MA's), (41, 32992), (72, 32884), (73, 32881), (82, 32797), (89, 32773), (92, 32764), (94, 32755), (112, 32557),

Gene: EdogawaKiddo_48 Start: 33668, Stop: 33105, Start Num: 24

Candidate Starts for EdogawaKiddo_48:

(Start: 19 @33683 has 64 MA's), (Start: 24 @33668 has 227 MA's), (66, 33542), (78, 33452), (101, 33353), (105, 33212),

Gene: Edtherson_47 Start: 36064, Stop: 35573, Start Num: 33

Candidate Starts for Edtherson_47:

(14, 36136), (20, 36097), (Start: 33 @36064 has 208 MA's), (57, 35983), (65, 35962), (76, 35893), (88, 35830), (91, 35821), (108, 35662), (112, 35626),

Gene: Eidsmoe_50 Start: 33683, Stop: 33168, Start Num: 24

Candidate Starts for Eidsmoe_50:

(Start: 19 @33698 has 64 MA's), (Start: 24 @33683 has 227 MA's), (52, 33590), (62, 33566), (77, 33488), (92, 33425), (105, 33275),

Gene: EITiger69_44 Start: 32269, Stop: 31745, Start Num: 32

Candidate Starts for EITiger69_44:

(Start: 32 @32269 has 38 MA's), (62, 32137), (65, 32131), (92, 31987),

Gene: Elephantoon_49 Start: 33065, Stop: 32502, Start Num: 24

Candidate Starts for Elephantoon_49:

(Start: 19 @33080 has 64 MA's), (Start: 24 @33065 has 227 MA's), (57, 32963), (101, 32753), (105, 32609),

Gene: EmyBug_49 Start: 33700, Stop: 33170, Start Num: 19

Candidate Starts for EmyBug_49:

(Start: 19 @33700 has 64 MA's), (Start: 24 @33685 has 227 MA's), (52, 33592), (62, 33568), (77, 33490), (92, 33427), (105, 33277),

Gene: EpicPhail_54 Start: 33860, Stop: 33270, Start Num: 24

Candidate Starts for EpicPhail_54:

(Start: 24 @33860 has 227 MA's), (Start: 29 @33854 has 1 MA's), (60, 33710), (65, 33701), (73, 33674), (82, 33590), (105, 33386), (110, 33338),

Gene: Epsocamisio_52 Start: 32293, Stop: 31751, Start Num: 36

Candidate Starts for Epsocamisio_52:

(Start: 36 @32293 has 19 MA's), (37, 32287), (57, 32182), (67, 32155), (70, 32152), (84, 32041), (90, 32020), (92, 32011), (94, 32002), (105, 31855), (110, 31810),

Gene: Equemioh13_51 Start: 33944, Stop: 33435, Start Num: 24

Candidate Starts for Equemioh13_51:

(Start: 19 @33959 has 64 MA's), (Start: 24 @33944 has 227 MA's), (49, 33875), (62, 33839), (72, 33812), (75, 33767), (77, 33761), (79, 33737), (82, 33725), (92, 33698), (94, 33689), (97, 33671), (105, 33548),

Gene: EricB_52 Start: 32771, Stop: 32199, Start Num: 24

Candidate Starts for EricB_52:

(Start: 19 @32786 has 64 MA's), (Start: 24 @32771 has 227 MA's), (57, 32660), (65, 32642), (95, 32480), (101, 32453), (105, 32309), (106, 32306),

Gene: Erik_39 Start: 29796, Stop: 29272, Start Num: 31

Candidate Starts for Erik_39:

(Start: 31 @29796 has 36 MA's), (60, 29691), (105, 29379), (107, 29370), (108, 29361), (110, 29331),

Gene: Eris_48 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Eris_48:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Eros_49 Start: 33390, Stop: 32851, Start Num: 28

Candidate Starts for Eros_49:

(Start: 13 @33447 has 1 MA's), (Start: 15 @33432 has 2 MA's), (Start: 28 @33390 has 159 MA's), (82, 33132), (92, 33099), (101, 33060), (112, 32892),

Gene: Espica_39 Start: 29797, Stop: 29273, Start Num: 31

Candidate Starts for Espica_39:

(Start: 31 @29797 has 36 MA's), (60, 29692), (105, 29380), (107, 29371), (108, 29362), (110, 29332),

Gene: Espresso_47 Start: 35666, Stop: 35175, Start Num: 33

Candidate Starts for Espresso_47:

(Start: 33 @35666 has 208 MA's), (57, 35585), (65, 35564), (88, 35432), (91, 35423), (108, 35264), (112, 35228),

Gene: Et2Brutus_49 Start: 32805, Stop: 32236, Start Num: 24

Candidate Starts for Et2Brutus_49:

(Start: 24 @32805 has 227 MA's), (62, 32670), (96, 32505), (105, 32349),

Gene: Euphoria_45 Start: 34917, Stop: 34426, Start Num: 33

Candidate Starts for Euphoria_45:

(Start: 33 @34917 has 208 MA's), (57, 34836), (65, 34815), (76, 34746), (82, 34707), (88, 34683), (91, 34674), (108, 34515), (112, 34479),

Gene: Eurydice_50 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for Eurydice_50:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: EvilGenius_52 Start: 35429, Stop: 34887, Start Num: 19

Candidate Starts for EvilGenius_52:

(Start: 19 @35429 has 64 MA's), (Start: 24 @35414 has 227 MA's), (49, 35327), (62, 35291), (72, 35264), (75, 35219), (77, 35213), (79, 35189), (92, 35150), (105, 34997), (108, 34979), (110, 34949),

Gene: Expelliarmus_46 Start: 31956, Stop: 31435, Start Num: 34

Candidate Starts for Expelliarmus_46:

(Start: 34 @31956 has 11 MA's), (62, 31839), (78, 31740), (92, 31689), (93, 31683), (114, 31458),

Gene: ExplosioNervosa_50 Start: 33751, Stop: 33188, Start Num: 24

Candidate Starts for ExplosioNervosa_50:

(Start: 19 @33766 has 64 MA's), (Start: 24 @33751 has 227 MA's), (66, 33625), (78, 33535), (101, 33436), (105, 33295),

Gene: Eyeball_48 Start: 35803, Stop: 35312, Start Num: 33

Candidate Starts for Eyeball_48:

(Start: 33 @35803 has 208 MA's), (57, 35722), (65, 35701), (88, 35569), (91, 35560), (108, 35401), (112, 35365),

Gene: Fajezeel_49 Start: 35913, Stop: 35422, Start Num: 33

Candidate Starts for Fajezeel_49:

(14, 35985), (20, 35946), (Start: 33 @35913 has 208 MA's), (57, 35832), (65, 35811), (88, 35679), (91, 35670), (108, 35511), (112, 35475),

Gene: Fameo_50 Start: 33969, Stop: 33436, Start Num: 19

Candidate Starts for Fameo_50:

(Start: 19 @33969 has 64 MA's), (Start: 24 @33954 has 227 MA's), (62, 33840), (72, 33813), (77, 33762), (79, 33738), (92, 33699), (94, 33690), (105, 33546), (108, 33528), (110, 33498),

Gene: Farber_53 Start: 33846, Stop: 33259, Start Num: 24

Candidate Starts for Farber_53:

(Start: 24 @33846 has 227 MA's), (Start: 29 @33840 has 1 MA's), (60, 33702), (65, 33693), (73, 33666), (74, 33663), (78, 33603), (82, 33582), (105, 33375), (110, 33327),

Gene: Fascinus_43 Start: 34815, Stop: 34276, Start Num: 33

Candidate Starts for Fascinus_43:

(14, 34887), (20, 34848), (Start: 33 @34815 has 208 MA's), (57, 34704), (63, 34689), (108, 34365), (112, 34329),

Gene: Fayely_50 Start: 33652, Stop: 33137, Start Num: 24

Candidate Starts for Fayely_50:

(Start: 19 @33667 has 64 MA's), (Start: 24 @33652 has 227 MA's), (52, 33559), (62, 33535), (77, 33457), (92, 33394), (105, 33244),

Gene: Fenn_49 Start: 37378, Stop: 36884, Start Num: 33

Candidate Starts for Fenn_49:

(Start: 33 @37378 has 208 MA's), (57, 37297), (65, 37276), (88, 37144), (91, 37135), (108, 36976), (112, 36940),

Gene: Fernando_53 Start: 33856, Stop: 33266, Start Num: 24

Candidate Starts for Fernando_53:

(Start: 24 @33856 has 227 MA's), (Start: 29 @33850 has 1 MA's), (60, 33706), (65, 33697), (73, 33670), (82, 33586), (105, 33382), (110, 33334),

Gene: Fibonacci_50 Start: 32814, Stop: 32251, Start Num: 24

Candidate Starts for Fibonacci_50:

(Start: 24 @32814 has 227 MA's), (62, 32685), (96, 32520), (105, 32364),

Gene: FiringLine_50 Start: 33631, Stop: 33110, Start Num: 24

Candidate Starts for FiringLine_50:

(Start: 19 @33646 has 64 MA's), (Start: 24 @33631 has 227 MA's), (62, 33517), (72, 33490), (75, 33445), (77, 33439), (79, 33415), (92, 33376), (94, 33367), (105, 33220), (108, 33202), (110, 33172),

Gene: First_0052 Start: 34110, Stop: 33565, Start Num: 19

Candidate Starts for First_0052:

(Start: 19 @34110 has 64 MA's), (Start: 24 @34095 has 227 MA's), (56, 33984), (60, 33969), (72, 33939), (79, 33864), (92, 33825), (105, 33675), (108, 33657), (110, 33627),

Gene: Flare16_50 Start: 33718, Stop: 33194, Start Num: 19

Candidate Starts for Flare16_50:

(Start: 19 @33718 has 64 MA's), (Start: 24 @33703 has 227 MA's), (49, 33634), (62, 33598), (72, 33571), (75, 33526), (77, 33520), (79, 33496), (82, 33484), (92, 33457), (94, 33448), (97, 33430), (105, 33307),

Gene: Flaverint_51 Start: 33272, Stop: 32703, Start Num: 24

Candidate Starts for Flaverint_51:

(Start: 24 @33272 has 227 MA's), (62, 33137), (96, 32972), (105, 32816),

Gene: Florean_49 Start: 33387, Stop: 32848, Start Num: 28

Candidate Starts for Florean_49:

(Start: 13 @33444 has 1 MA's), (Start: 15 @33429 has 2 MA's), (Start: 28 @33387 has 159 MA's), (82, 33129), (92, 33096), (101, 33057), (112, 32889),

Gene: Flux_49 Start: 33387, Stop: 32848, Start Num: 28

Candidate Starts for Flux_49:

(Start: 13 @33444 has 1 MA's), (Start: 15 @33429 has 2 MA's), (Start: 28 @33387 has 159 MA's), (82, 33129), (92, 33096), (101, 33057), (112, 32889),

Gene: FlyCatcher_54 Start: 35717, Stop: 35193, Start Num: 28

Candidate Starts for FlyCatcher_54:

(Start: 28 @35717 has 159 MA's), (56, 35621), (90, 35462), (92, 35453), (98, 35420), (106, 35285), (112, 35240),

Gene: ForGetIt_42 Start: 32332, Stop: 31799, Start Num: 32

Candidate Starts for ForGetIt_42:

(Start: 32 @32332 has 38 MA's), (62, 32200), (65, 32194), (92, 32050),

Gene: Forsytheast_47 Start: 35394, Stop: 34903, Start Num: 33

Candidate Starts for Forsytheast_47:

(14, 35466), (20, 35427), (Start: 33 @35394 has 208 MA's), (57, 35313), (65, 35292), (88, 35160), (91, 35151), (108, 34992), (112, 34956),

Gene: Francis47_46 Start: 36239, Stop: 35748, Start Num: 33

Candidate Starts for Francis47_46:

(14, 36311), (20, 36272), (Start: 33 @36239 has 208 MA's), (57, 36158), (65, 36137), (76, 36068), (82, 36029), (88, 36005), (91, 35996), (108, 35837), (112, 35801),

Gene: Fred313_50 Start: 33287, Stop: 32724, Start Num: 27

Candidate Starts for Fred313_50:

(Start: 13 @33338 has 1 MA's), (Start: 15 @33323 has 2 MA's), (Start: 16 @33311 has 23 MA's), (Start: 27 @33287 has 7 MA's), (41, 33218), (65, 33140), (72, 33107), (73, 33104), (82, 33020), (112, 32765),

Gene: Froghopper_45 Start: 34909, Stop: 34418, Start Num: 33

Candidate Starts for Froghopper_45:

(14, 34981), (20, 34942), (Start: 33 @34909 has 208 MA's), (57, 34828), (65, 34807), (88, 34675), (91, 34666), (108, 34507), (112, 34471),

Gene: Funston_48 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Funston_48:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Fushigi_45 Start: 33557, Stop: 33066, Start Num: 33

Candidate Starts for Fushigi_45:

(Start: 33 @33557 has 208 MA's), (57, 33476), (65, 33455), (88, 33323), (91, 33314), (108, 33155), (112, 33119),

Gene: Gadost_49 Start: 33392, Stop: 32853, Start Num: 28

Candidate Starts for Gadost_49:

(Start: 13 @33449 has 1 MA's), (Start: 15 @33434 has 2 MA's), (Start: 28 @33392 has 159 MA's), (82, 33134), (92, 33101), (101, 33062), (112, 32894),

Gene: GageAP_48 Start: 35709, Stop: 35215, Start Num: 33

Candidate Starts for GageAP_48:

(14, 35781), (20, 35742), (Start: 33 @35709 has 208 MA's), (57, 35628), (65, 35607), (82, 35499), (88, 35475), (91, 35466), (108, 35307), (112, 35271),

Gene: Gail_54 Start: 34735, Stop: 34187, Start Num: 19

Candidate Starts for Gail_54:

(Start: 19 @34735 has 64 MA's), (Start: 24 @34720 has 227 MA's), (50, 34630), (62, 34594), (72, 34567), (75, 34522), (77, 34516), (79, 34492), (92, 34453), (94, 34444), (105, 34297), (110, 34252),

Gene: Gandalf20_49 Start: 36393, Stop: 35902, Start Num: 33

Candidate Starts for Gandalf20_49:

(Start: 33 @36393 has 208 MA's), (57, 36312), (65, 36291), (82, 36183), (88, 36159), (91, 36150), (108, 35991), (112, 35955),

Gene: Garak_54 Start: 32912, Stop: 32364, Start Num: 24

Candidate Starts for Garak_54:

(6, 33026), (7, 33011), (Start: 19 @32927 has 64 MA's), (Start: 24 @32912 has 227 MA's), (76, 32702), (77, 32699), (92, 32636), (94, 32627), (105, 32474), (106, 32471),

Gene: GaugeLDP_48 Start: 33987, Stop: 33457, Start Num: 19

Candidate Starts for GaugeLDP_48:

(Start: 19 @33987 has 64 MA's), (Start: 24 @33972 has 227 MA's), (54, 33888), (66, 33867), (78, 33780), (82, 33759), (91, 33729), (92, 33726), (105, 33567), (108, 33549), (110, 33522),

Gene: Gemma_52 Start: 33745, Stop: 33155, Start Num: 24

Candidate Starts for Gemma_52:

(Start: 24 @33745 has 227 MA's), (Start: 29 @33739 has 1 MA's), (60, 33595), (65, 33586), (73, 33559), (82, 33475), (105, 33271), (110, 33223),

Gene: George_42 Start: 32544, Stop: 32017, Start Num: 32

Candidate Starts for George_42:

(Start: 32 @32544 has 38 MA's), (62, 32409), (65, 32403), (92, 32259), (114, 32040),

Gene: Georgie2_51 Start: 33676, Stop: 33155, Start Num: 24

Candidate Starts for Georgie2_51:

(Start: 19 @33691 has 64 MA's), (Start: 24 @33676 has 227 MA's), (62, 33562), (72, 33535), (75, 33490), (77, 33484), (79, 33460), (92, 33421), (94, 33412), (105, 33265), (108, 33247), (110, 33217),

Gene: Ghouboy_44 Start: 33072, Stop: 32536, Start Num: 32

Candidate Starts for Ghouboy_44:

(Start: 32 @33072 has 38 MA's), (62, 32937), (65, 32931), (92, 32787),

Gene: Gilberta_51 Start: 33262, Stop: 32693, Start Num: 24

Candidate Starts for Gilberta_51:

(Start: 24 @33262 has 227 MA's), (62, 33127), (96, 32962), (105, 32806),

Gene: GingkoMaracino_53 Start: 33742, Stop: 33152, Start Num: 24

Candidate Starts for GingkoMaracino_53:

(Start: 24 @33742 has 227 MA's), (Start: 29 @33736 has 1 MA's), (60, 33592), (65, 33583), (73, 33556), (82, 33472), (105, 33268), (110, 33220),

Gene: Giroux_51 Start: 33720, Stop: 33157, Start Num: 27

Candidate Starts for Giroux_51:

(Start: 13 @33777 has 1 MA's), (Start: 15 @33762 has 2 MA's), (Start: 16 @33750 has 23 MA's), (Start: 27 @33720 has 7 MA's), (41, 33651), (65, 33573), (73, 33537), (82, 33453), (112, 33198),

Gene: Gladiator_50 Start: 32270, Stop: 31527, Start Num: 1

Candidate Starts for Gladiator_50:

(Start: 1 @32270 has 4 MA's), (2, 32255), (3, 32234), (4, 32204), (5, 32198), (Start: 24 @32072 has 227 MA's), (76, 31862), (77, 31859), (92, 31796), (94, 31787), (105, 31637), (106, 31634),

Gene: Gollum_39 Start: 29796, Stop: 29272, Start Num: 31

Candidate Starts for Gollum_39:

(Start: 31 @29796 has 36 MA's), (60, 29691), (105, 29379), (107, 29370), (108, 29361), (110, 29331),

Gene: Gompeii16_46 Start: 35972, Stop: 35481, Start Num: 33

Candidate Starts for Gompeii16_46:

(14, 36044), (20, 36005), (Start: 33 @35972 has 208 MA's), (57, 35891), (65, 35870), (76, 35801), (82, 35762), (88, 35738), (91, 35729), (108, 35570), (112, 35534),

Gene: Goose_48 Start: 32859, Stop: 32299, Start Num: 28

Candidate Starts for Goose_48:

(Start: 28 @32859 has 159 MA's), (41, 32787), (72, 32673), (73, 32670), (89, 32562), (92, 32553), (112, 32346),

Gene: Graduation_50 Start: 37122, Stop: 36631, Start Num: 33

Candidate Starts for Graduation_50:

(Start: 33 @37122 has 208 MA's), (57, 37041), (65, 37020), (76, 36951), (82, 36912), (88, 36888), (91, 36879), (108, 36720), (112, 36684),

Gene: GrecoEtereo_48 Start: 35721, Stop: 35230, Start Num: 33

Candidate Starts for GrecoEtereo_48:

(14, 35793), (20, 35754), (Start: 33 @35721 has 208 MA's), (57, 35640), (65, 35619), (82, 35511), (88, 35487), (91, 35478), (108, 35319), (112, 35283),

Gene: GreedyLawyer_52 Start: 32793, Stop: 32206, Start Num: 19

Candidate Starts for GreedyLawyer_52:

(Start: 19 @32793 has 64 MA's), (Start: 24 @32778 has 227 MA's), (57, 32667), (65, 32649), (95, 32487), (101, 32460), (105, 32316), (106, 32313),

Gene: Greg_49 Start: 35913, Stop: 35422, Start Num: 33

Candidate Starts for Greg_49:

(14, 35985), (20, 35946), (Start: 33 @35913 has 208 MA's), (57, 35832), (65, 35811), (88, 35679), (91, 35670), (108, 35511), (112, 35475),

Gene: Grif_53 Start: 33931, Stop: 33341, Start Num: 24

Candidate Starts for Grif_53:

(Start: 24 @33931 has 227 MA's), (Start: 29 @33925 has 1 MA's), (60, 33781), (65, 33772), (73, 33745), (82, 33661), (105, 33457), (110, 33409),

Gene: Groundhog_45 Start: 31854, Stop: 31342, Start Num: 34

Candidate Starts for Groundhog_45:

(Start: 34 @31854 has 11 MA's), (62, 31737), (78, 31638), (92, 31587), (93, 31581), (114, 31365),

Gene: Groupthink_54 Start: 33749, Stop: 33159, Start Num: 24

Candidate Starts for Groupthink_54:

(Start: 24 @33749 has 227 MA's), (Start: 29 @33743 has 1 MA's), (60, 33599), (65, 33590), (73, 33563), (82, 33479), (105, 33275), (110, 33227),

Gene: Grub_53 Start: 33848, Stop: 33258, Start Num: 24

Candidate Starts for Grub_53:

(Start: 24 @33848 has 227 MA's), (Start: 29 @33842 has 1 MA's), (60, 33698), (65, 33689), (73, 33662), (82, 33578), (105, 33374), (110, 33326),

Gene: Grum1_53 Start: 33856, Stop: 33266, Start Num: 24

Candidate Starts for Grum1_53:

(Start: 24 @33856 has 227 MA's), (Start: 29 @33850 has 1 MA's), (60, 33706), (65, 33697), (73, 33670), (82, 33586), (105, 33382), (110, 33334),

Gene: Gruunaga_52 Start: 32771, Stop: 32226, Start Num: 24

Candidate Starts for Gruunaga_52:

(Start: 1 @32969 has 4 MA's), (2, 32954), (3, 32933), (4, 32903), (5, 32897), (Start: 24 @32771 has 227 MA's), (76, 32561), (77, 32558), (92, 32495), (94, 32486), (105, 32336), (106, 32333),

Gene: GtownJaz_53 Start: 33858, Stop: 33268, Start Num: 24

Candidate Starts for GtownJaz_53:

(Start: 24 @33858 has 227 MA's), (Start: 29 @33852 has 1 MA's), (60, 33708), (65, 33699), (73, 33672), (82, 33588), (105, 33384), (110, 33336),

Gene: Gwendoluna_50 Start: 37558, Stop: 37067, Start Num: 33

Candidate Starts for Gwendoluna_50:

(Start: 33 @37558 has 208 MA's), (57, 37477), (65, 37456), (76, 37387), (82, 37348), (88, 37324), (91, 37315), (108, 37156), (112, 37120),

Gene: Gyzlar_43 Start: 33635, Stop: 33096, Start Num: 33

Candidate Starts for Gyzlar_43:

(14, 33707), (20, 33668), (Start: 33 @33635 has 208 MA's), (57, 33524), (63, 33509), (108, 33185), (112, 33149),

Gene: HINdeR_45 Start: 34149, Stop: 33646, Start Num: 28

Candidate Starts for HINdeR_45:

(9, 34242), (10, 34227), (Start: 16 @34182 has 23 MA's), (Start: 28 @34149 has 159 MA's), (62, 34044), (74, 34005), (92, 33894), (112, 33693),

Gene: HamSlice_48 Start: 33386, Stop: 32847, Start Num: 28

Candidate Starts for HamSlice_48:

(Start: 13 @33443 has 1 MA's), (Start: 15 @33428 has 2 MA's), (Start: 28 @33386 has 159 MA's), (82, 33128), (92, 33095), (101, 33056), (112, 32888),

Gene: Hami1_41 Start: 30016, Stop: 29537, Start Num: 33

Candidate Starts for Hami1_41:

(14, 30088), (20, 30049), (Start: 33 @30016 has 208 MA's), (57, 29935), (65, 29914), (76, 29845), (88, 29782), (91, 29773), (108, 29626), (112, 29590),

Gene: Hammer_53 Start: 32552, Stop: 31803, Start Num: 1

Candidate Starts for Hammer_53:

(Start: 1 @32552 has 4 MA's), (2, 32537), (3, 32516), (4, 32486), (5, 32480), (Start: 24 @32354 has 227 MA's), (76, 32144), (77, 32141), (92, 32078), (94, 32069), (105, 31913), (106, 31910),

Gene: HanShotFirst_46 Start: 34746, Stop: 34255, Start Num: 33

Candidate Starts for HanShotFirst_46:

(Start: 33 @34746 has 208 MA's), (57, 34665), (65, 34644), (76, 34575), (82, 34536), (88, 34512), (91, 34503), (108, 34344), (112, 34308),

Gene: Hanray_48 Start: 33672, Stop: 33109, Start Num: 24

Candidate Starts for Hanray_48:

(Start: 19 @33687 has 64 MA's), (Start: 24 @33672 has 227 MA's), (66, 33546), (78, 33456), (101, 33357), (105, 33216),

Gene: Happiness_48 Start: 33390, Stop: 32854, Start Num: 28

Candidate Starts for Happiness_48:

(12, 33453), (Start: 28 @33390 has 159 MA's), (82, 33132), (92, 33099), (101, 33060), (112, 32895),

Gene: Harlequin_39 Start: 29803, Stop: 29279, Start Num: 31

Candidate Starts for Harlequin_39:

(Start: 31 @29803 has 36 MA's), (60, 29698), (105, 29386), (107, 29377), (108, 29368), (110, 29338),

Gene: HarryHoudini_51 Start: 34130, Stop: 33618, Start Num: 24

Candidate Starts for HarryHoudini_51:

(Start: 19 @34145 has 64 MA's), (Start: 24 @34130 has 227 MA's), (49, 34061), (62, 34025), (72, 33998), (75, 33953), (77, 33947), (79, 33923), (82, 33911), (92, 33884), (94, 33875), (97, 33857), (105, 33731),

Gene: HarryOW_46 Start: 34893, Stop: 34402, Start Num: 33

Candidate Starts for HarryOW_46:

(14, 34965), (20, 34926), (Start: 33 @34893 has 208 MA's), (57, 34812), (65, 34791), (82, 34683), (88, 34659), (91, 34650), (108, 34491), (112, 34455),

Gene: HashRod_54 Start: 33884, Stop: 33297, Start Num: 24

Candidate Starts for HashRod_54:

(Start: 24 @33884 has 227 MA's), (Start: 29 @33878 has 1 MA's), (60, 33740), (65, 33731), (73, 33704), (74, 33701), (78, 33641), (82, 33620), (105, 33413), (110, 33365),

Gene: HaveUMetTed_54 Start: 33734, Stop: 33141, Start Num: 24

Candidate Starts for HaveUMetTed_54:

(Start: 24 @33734 has 227 MA's), (Start: 29 @33728 has 1 MA's), (60, 33581), (65, 33572), (73, 33545), (82, 33461), (105, 33257), (110, 33209),

Gene: Heathen_50 Start: 33373, Stop: 32780, Start Num: 16

Candidate Starts for Heathen_50:

(Start: 13 @33400 has 1 MA's), (Start: 15 @33385 has 2 MA's), (Start: 16 @33373 has 23 MA's), (Start: 27 @33343 has 7 MA's), (41, 33274), (65, 33196), (72, 33163), (73, 33160), (82, 33076), (112, 32821),

Gene: Heffalump_49 Start: 34422, Stop: 33904, Start Num: 24

Candidate Starts for Heffalump_49:

(Start: 19 @34437 has 64 MA's), (Start: 24 @34422 has 227 MA's), (62, 34308), (72, 34281), (77, 34230), (79, 34206), (92, 34167), (94, 34158), (105, 34014), (108, 33996), (110, 33966),

Gene: HelDan_50 Start: 33595, Stop: 33032, Start Num: 27

Candidate Starts for HelDan_50:

(Start: 13 @33652 has 1 MA's), (Start: 15 @33637 has 2 MA's), (Start: 16 @33625 has 23 MA's), (Start: 27 @33595 has 7 MA's), (41, 33526), (65, 33448), (72, 33415), (73, 33412), (82, 33328), (112, 33073),

Gene: Heliosoles_52 Start: 33752, Stop: 33162, Start Num: 24

Candidate Starts for Heliosoles_52:

(Start: 24 @33752 has 227 MA's), (Start: 29 @33746 has 1 MA's), (60, 33602), (65, 33593), (73, 33566), (82, 33482), (105, 33278), (110, 33230),

Gene: Helmet_54 Start: 32912, Stop: 32364, Start Num: 24

Candidate Starts for Helmet_54:

(6, 33026), (7, 33011), (Start: 19 @32927 has 64 MA's), (Start: 24 @32912 has 227 MA's), (76, 32702), (77, 32699), (92, 32636), (94, 32627), (105, 32474), (106, 32471),

Gene: Herbertwm_50 Start: 33563, Stop: 32988, Start Num: 24

Candidate Starts for Herbertwm_50:

(Start: 19 @33578 has 64 MA's), (Start: 24 @33563 has 227 MA's), (57, 33458), (65, 33437), (74, 33407), (76, 33365), (91, 33296), (101, 33248), (105, 33095),

Gene: Hercules11_53 Start: 33865, Stop: 33275, Start Num: 24

Candidate Starts for Hercules11_53:

(Start: 24 @33865 has 227 MA's), (Start: 29 @33859 has 1 MA's), (60, 33715), (65, 33706), (73, 33679), (82, 33595), (105, 33391), (110, 33343),

Gene: Hermia_48 Start: 36340, Stop: 35849, Start Num: 33

Candidate Starts for Hermia_48:

(14, 36412), (20, 36373), (Start: 33 @36340 has 208 MA's), (57, 36259), (65, 36238), (88, 36106), (91, 36097), (108, 35938), (112, 35902),

Gene: HermioneGrange_47 Start: 35708, Stop: 35217, Start Num: 33

Candidate Starts for HermioneGrange_47:

(14, 35780), (20, 35741), (Start: 33 @35708 has 208 MA's), (57, 35627), (65, 35606), (76, 35537), (88, 35474), (91, 35465), (108, 35306), (112, 35270),

Gene: Hexamo_52 Start: 32557, Stop: 31985, Start Num: 19

Candidate Starts for Hexamo_52:

(6, 32656), (7, 32641), (Start: 19 @32557 has 64 MA's), (Start: 24 @32542 has 227 MA's), (76, 32332), (77, 32329), (92, 32266), (94, 32257), (105, 32095), (106, 32092),

Gene: Hiro_39 Start: 30058, Stop: 29534, Start Num: 31

Candidate Starts for Hiro_39:

(Start: 31 @30058 has 36 MA's), (60, 29953), (105, 29641), (107, 29632), (108, 29623), (110, 29593),

Gene: Horex_49 Start: 33688, Stop: 33128, Start Num: 24

Candidate Starts for Horex_49:

(Start: 19 @33703 has 64 MA's), (Start: 24 @33688 has 227 MA's), (66, 33562), (78, 33472), (101, 33373), (105, 33235),

Gene: Holli_48 Start: 33235, Stop: 32639, Start Num: 13

Candidate Starts for Holli_48:

(Start: 13 @33235 has 1 MA's), (Start: 15 @33220 has 2 MA's), (Start: 28 @33178 has 159 MA's), (82, 32920), (92, 32887), (101, 32848), (112, 32680),

Gene: Homines_39 Start: 31549, Stop: 31058, Start Num: 33

Candidate Starts for Homines_39:

(Start: 33 @31549 has 208 MA's), (57, 31468), (65, 31447), (88, 31315), (91, 31306), (108, 31147), (112, 31111),

Gene: Hookmount_49 Start: 33696, Stop: 33097, Start Num: 16

Candidate Starts for Hookmount_49:

(Start: 13 @33723 has 1 MA's), (Start: 15 @33708 has 2 MA's), (Start: 16 @33696 has 23 MA's), (Start: 27 @33666 has 7 MA's), (41, 33597), (65, 33519), (82, 33399), (112, 33138),

Gene: Hoot_47 Start: 30644, Stop: 30057, Start Num: 19

Candidate Starts for Hoot_47:

(Start: 19 @30644 has 64 MA's), (Start: 24 @30629 has 227 MA's), (57, 30518), (65, 30500), (95, 30338), (101, 30311), (105, 30167), (106, 30164),

Gene: Hope4ever_49 Start: 36165, Stop: 35674, Start Num: 33

Candidate Starts for Hope4ever_49:

(Start: 33 @36165 has 208 MA's), (57, 36084), (65, 36063), (88, 35931), (91, 35922), (108, 35763), (112, 35727),

Gene: HortumSL17_50 Start: 33634, Stop: 33104, Start Num: 19

Candidate Starts for HortumSL17_50:

(Start: 19 @33634 has 64 MA's), (Start: 24 @33619 has 227 MA's), (52, 33526), (62, 33502), (77, 33424), (92, 33361), (105, 33211),

Gene: Houdini22_49 Start: 33392, Stop: 32853, Start Num: 28

Candidate Starts for Houdini22_49:

(Start: 13 @33449 has 1 MA's), (Start: 15 @33434 has 2 MA's), (Start: 28 @33392 has 159 MA's), (82, 33134), (92, 33101), (101, 33062), (112, 32894),

Gene: HuhtaEnerson15_43 Start: 32535, Stop: 32008, Start Num: 32

Candidate Starts for HuhtaEnerson15_43:

(Start: 32 @32535 has 38 MA's), (62, 32400), (65, 32394), (92, 32250), (113, 32049), (114, 32031),

Gene: Hutc2_50 Start: 32814, Stop: 32251, Start Num: 24

Candidate Starts for Hutc2_50:

(Start: 24 @32814 has 227 MA's), (62, 32685), (96, 32520), (105, 32364),

Gene: ICleared_49 Start: 33417, Stop: 32878, Start Num: 28

Candidate Starts for ICleared_49:

(Start: 13 @33474 has 1 MA's), (Start: 15 @33459 has 2 MA's), (Start: 28 @33417 has 159 MA's), (82, 33159), (92, 33126), (101, 33087), (112, 32919),

Gene: ILeeKay_51 Start: 36502, Stop: 36011, Start Num: 33

Candidate Starts for ILeeKay_51:

(14, 36574), (20, 36535), (Start: 33 @36502 has 208 MA's), (57, 36421), (65, 36400), (76, 36331), (82, 36292), (88, 36268), (91, 36259), (108, 36100), (112, 36064),

Gene: Ibantik_26 Start: 11875, Stop: 11306, Start Num: 40

Candidate Starts for Ibantik_26:

(39, 11887), (Start: 40 @11875 has 1 MA's), (61, 11779), (108, 11383), (109, 11380), (112, 11338),

Gene: Iceman_49 Start: 33674, Stop: 33135, Start Num: 28

Candidate Starts for Iceman_49:

(Start: 13 @33731 has 1 MA's), (Start: 15 @33716 has 2 MA's), (Start: 28 @33674 has 159 MA's), (82, 33416), (92, 33383), (101, 33344), (112, 33176),

Gene: Ichabod_49 Start: 35764, Stop: 35270, Start Num: 33

Candidate Starts for Ichabod_49:

(Start: 33 @35764 has 208 MA's), (57, 35683), (65, 35662), (88, 35530), (91, 35521), (108, 35362), (112, 35326),

Gene: Idleandcovert_51 Start: 33751, Stop: 33158, Start Num: 16

Candidate Starts for Idleandcovert_51:

(Start: 13 @33778 has 1 MA's), (Start: 15 @33763 has 2 MA's), (Start: 16 @33751 has 23 MA's), (Start: 27 @33721 has 7 MA's), (41, 33652), (65, 33574), (73, 33538), (82, 33454), (112, 33199),

Gene: IgnatiusPatJac_47 Start: 35765, Stop: 35271, Start Num: 33

Candidate Starts for IgnatiusPatJac_47:

(Start: 33 @35765 has 208 MA's), (57, 35684), (65, 35663), (88, 35531), (91, 35522), (108, 35363), (112, 35327),

Gene: Indra_55 Start: 32928, Stop: 32365, Start Num: 19

Candidate Starts for Indra_55:

(6, 33027), (7, 33012), (Start: 19 @32928 has 64 MA's), (Start: 24 @32913 has 227 MA's), (76, 32703), (77, 32700), (92, 32637), (94, 32628), (105, 32475), (106, 32472),

Gene: Insomnia_51 Start: 33325, Stop: 32756, Start Num: 24

Candidate Starts for Insomnia_51:

(Start: 24 @33325 has 227 MA's), (62, 33190), (96, 33025), (105, 32869),

Gene: Inyanga_44 Start: 34362, Stop: 33871, Start Num: 33

Candidate Starts for Inyanga_44:

(14, 34434), (20, 34395), (Start: 33 @34362 has 208 MA's), (57, 34281), (65, 34260), (76, 34191), (82, 34152), (88, 34128), (91, 34119), (108, 33960), (112, 33924),

Gene: Iracema64_50 Start: 33652, Stop: 33113, Start Num: 28

Candidate Starts for Iracema64_50:

(Start: 13 @33709 has 1 MA's), (Start: 15 @33694 has 2 MA's), (Start: 28 @33652 has 159 MA's), (82, 33394), (92, 33361), (101, 33322), (112, 33154),

Gene: IronMan_50 Start: 34814, Stop: 34269, Start Num: 24

Candidate Starts for IronMan_50:

(Start: 19 @34829 has 64 MA's), (Start: 24 @34814 has 227 MA's), (74, 34685), (76, 34643), (91, 34574), (95, 34553), (101, 34526), (105, 34376), (108, 34358),

Gene: Isca_49 Start: 33194, Stop: 32589, Start Num: 16

Candidate Starts for Isca_49:

(Start: 13 @33221 has 1 MA's), (Start: 15 @33206 has 2 MA's), (Start: 16 @33194 has 23 MA's), (Start: 28 @33164 has 159 MA's), (41, 33092), (65, 33014), (72, 32981), (73, 32978), (82, 32894), (94, 32849), (106, 32681), (112, 32630),

Gene: Isiphiwo_50 Start: 32318, Stop: 31740, Start Num: 24

Candidate Starts for Isiphiwo_50:

(Start: 19 @32333 has 64 MA's), (Start: 24 @32318 has 227 MA's), (57, 32207), (65, 32189), (95, 32027), (101, 32000), (105, 31850), (106, 31847),

Gene: Iwokeuplikedis_53 Start: 33759, Stop: 33244, Start Num: 24

Candidate Starts for Iwokeuplikedis_53:

(Start: 19 @33774 has 64 MA's), (Start: 24 @33759 has 227 MA's), (62, 33648), (72, 33621), (75, 33576), (77, 33570), (79, 33546), (92, 33507), (105, 33351), (108, 33333),

Gene: JC27_48 Start: 35809, Stop: 35318, Start Num: 33

Candidate Starts for JC27_48:

(Start: 33 @35809 has 208 MA's), (57, 35728), (65, 35707), (76, 35638), (88, 35575), (91, 35566), (108, 35407), (112, 35371),

Gene: JF2_48 Start: 31895, Stop: 31290, Start Num: 16

Candidate Starts for JF2_48:

(Start: 13 @31922 has 1 MA's), (Start: 15 @31907 has 2 MA's), (Start: 16 @31895 has 23 MA's), (Start: 28 @31865 has 159 MA's), (41, 31793), (65, 31715), (72, 31682), (73, 31679), (82, 31595), (94, 31550), (106, 31382), (112, 31331),

Gene: JF4_48 Start: 31895, Stop: 31290, Start Num: 16

Candidate Starts for JF4_48:

(Start: 13 @31922 has 1 MA's), (Start: 15 @31907 has 2 MA's), (Start: 16 @31895 has 23 MA's), (Start: 28 @31865 has 159 MA's), (41, 31793), (65, 31715), (72, 31682), (73, 31679), (82, 31595), (94, 31550), (106, 31382), (112, 31331),

Gene: JHC117_53 Start: 33855, Stop: 33265, Start Num: 24

Candidate Starts for JHC117_53:

(Start: 24 @33855 has 227 MA's), (Start: 29 @33849 has 1 MA's), (60, 33705), (65, 33696), (73, 33669), (82, 33585), (105, 33381), (110, 33333),

Gene: JSwag_53 Start: 32482, Stop: 31940, Start Num: 36

Candidate Starts for JSwag_53:

(Start: 36 @32482 has 19 MA's), (37, 32476), (57, 32371), (67, 32344), (70, 32341), (84, 32230), (90, 32209), (92, 32200), (94, 32191), (105, 32044), (110, 31999),

Gene: Jaan_50 Start: 34986, Stop: 34435, Start Num: 24

Candidate Starts for Jaan_50:

(Start: 19 @35001 has 64 MA's), (Start: 24 @34986 has 227 MA's), (74, 34854), (76, 34812), (87, 34755), (91, 34743), (95, 34722), (101, 34695), (105, 34542),

Gene: Jabiru_43 Start: 32142, Stop: 31618, Start Num: 32

Candidate Starts for Jabiru_43:

(Start: 32 @32142 has 38 MA's), (62, 32010), (65, 32004), (92, 31860), (114, 31641),

Gene: Jabith_51 Start: 33326, Stop: 32757, Start Num: 24

Candidate Starts for Jabith_51:

(Start: 24 @33326 has 227 MA's), (62, 33191), (96, 33026), (105, 32870),

Gene: JackSparrow_48 Start: 35944, Stop: 35465, Start Num: 33

Candidate Starts for JackSparrow_48:

(14, 36016), (20, 35977), (Start: 33 @35944 has 208 MA's), (57, 35863), (65, 35842), (76, 35773), (82, 35734), (88, 35710), (91, 35701), (108, 35554), (112, 35518),

Gene: Jasper_49 Start: 35226, Stop: 34723, Start Num: 33

Candidate Starts for Jasper_49:

(14, 35298), (20, 35259), (Start: 33 @35226 has 208 MA's), (57, 35145), (65, 35124), (82, 35016), (88, 34992), (91, 34983), (108, 34815), (112, 34779),

Gene: Jaykayelowell_47 Start: 33381, Stop: 32842, Start Num: 28

Candidate Starts for Jaykayelowell_47:

(Start: 13 @33438 has 1 MA's), (Start: 15 @33423 has 2 MA's), (Start: 28 @33381 has 159 MA's), (82, 33123), (92, 33090), (101, 33051), (112, 32883),

Gene: Jeeves_54 Start: 33492, Stop: 32962, Start Num: 24

Candidate Starts for Jeeves_54:

(Start: 19 @33507 has 64 MA's), (Start: 24 @33492 has 227 MA's), (50, 33405), (62, 33372), (72, 33345), (75, 33300), (77, 33294), (79, 33270), (92, 33231), (94, 33222), (105, 33072), (110, 33027),

Gene: Jeffabunny_52 Start: 32584, Stop: 32021, Start Num: 19

Candidate Starts for Jeffabunny_52:

(6, 32683), (7, 32668), (Start: 19 @32584 has 64 MA's), (Start: 24 @32569 has 227 MA's), (76, 32359), (77, 32356), (92, 32293), (94, 32284), (105, 32131), (106, 32128),

Gene: JenCasNa_54 Start: 33856, Stop: 33266, Start Num: 24

Candidate Starts for JenCasNa_54:

(Start: 24 @33856 has 227 MA's), (Start: 29 @33850 has 1 MA's), (60, 33706), (65, 33697), (73, 33670), (82, 33586), (105, 33382), (110, 33334),

Gene: JeppNRM_54 Start: 33750, Stop: 33160, Start Num: 24

Candidate Starts for JeppNRM_54:

(Start: 24 @33750 has 227 MA's), (Start: 29 @33744 has 1 MA's), (60, 33600), (65, 33591), (73, 33564), (82, 33480), (105, 33276), (110, 33228),

Gene: Jerm_52 Start: 34210, Stop: 33683, Start Num: 24

Candidate Starts for Jerm_52:

(Start: 19 @34225 has 64 MA's), (Start: 24 @34210 has 227 MA's), (49, 34123), (62, 34087), (72, 34060), (75, 34015), (77, 34009), (79, 33985), (92, 33946), (105, 33793), (108, 33775), (110, 33745),

Gene: Jerm2_48 Start: 35963, Stop: 35472, Start Num: 33

Candidate Starts for Jerm2_48:

(14, 36035), (20, 35996), (Start: 33 @35963 has 208 MA's), (57, 35882), (65, 35861), (76, 35792), (88, 35729), (91, 35720), (108, 35561), (112, 35525),

Gene: Jester_39 Start: 29734, Stop: 29210, Start Num: 31

Candidate Starts for Jester_39:

(Start: 31 @29734 has 36 MA's), (60, 29629), (105, 29317), (107, 29308), (108, 29299), (110, 29269),

Gene: JetBlade_49 Start: 33382, Stop: 32843, Start Num: 28

Candidate Starts for JetBlade_49:

(Start: 13 @33439 has 1 MA's), (Start: 15 @33424 has 2 MA's), (Start: 28 @33382 has 159 MA's), (82, 33124), (92, 33091), (101, 33052), (112, 32884),

Gene: JewelBug_53 Start: 32963, Stop: 32376, Start Num: 19

Candidate Starts for JewelBug_53:

(Start: 19 @32963 has 64 MA's), (Start: 24 @32948 has 227 MA's), (57, 32837), (65, 32819), (95, 32657), (101, 32630), (105, 32486), (106, 32483),

Gene: Jiawan_48 Start: 33704, Stop: 33141, Start Num: 24

Candidate Starts for Jiawan_48:

(Start: 19 @33719 has 64 MA's), (Start: 24 @33704 has 227 MA's), (66, 33578), (78, 33488), (101, 33389), (105, 33248),

Gene: Jobu08_52 Start: 33688, Stop: 33098, Start Num: 24

Candidate Starts for Jobu08_52:

(Start: 24 @33688 has 227 MA's), (Start: 29 @33682 has 1 MA's), (60, 33538), (65, 33529), (73, 33502), (82, 33418), (105, 33214), (110, 33166),

Gene: JoongJeon_48 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for JoongJeon_48:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: Jordennis_52 Start: 32489, Stop: 31890, Start Num: 19

Candidate Starts for Jordennis_52:

(Start: 19 @32489 has 64 MA's), (Start: 24 @32474 has 227 MA's), (57, 32351), (65, 32333), (95, 32171), (101, 32144), (105, 32000), (106, 31997),

Gene: Jorgensen_48 Start: 35503, Stop: 35012, Start Num: 33

Candidate Starts for Jorgensen_48:

(Start: 33 @35503 has 208 MA's), (Start: 35 @35497 has 1 MA's), (57, 35422), (65, 35401), (88, 35269), (91, 35260), (108, 35101), (112, 35065),

Gene: Joselito_51 Start: 33271, Stop: 32702, Start Num: 24

Candidate Starts for Joselito_51:

(Start: 24 @33271 has 227 MA's), (62, 33136), (96, 32971), (105, 32815),

Gene: JoshKayV_52 Start: 34313, Stop: 33765, Start Num: 19

Candidate Starts for JoshKayV_52:

(Start: 19 @34313 has 64 MA's), (Start: 24 @34298 has 227 MA's), (62, 34169), (72, 34142), (79, 34067), (92, 34028), (94, 34019), (105, 33875), (108, 33857), (110, 33827),

Gene: Journey13_44 Start: 32029, Stop: 31511, Start Num: 19

Candidate Starts for Journey13_44:

(Start: 19 @32029 has 64 MA's), (Start: 24 @32014 has 227 MA's), (26, 32011), (62, 31906), (72, 31879), (75, 31834), (77, 31828), (79, 31804), (92, 31765), (105, 31615), (108, 31597),

Gene: Jovo_42 Start: 32588, Stop: 32055, Start Num: 32

Candidate Starts for Jovo_42:

(Start: 32 @32588 has 38 MA's), (62, 32456), (65, 32450), (92, 32306),

Gene: Jsquared_48 Start: 32621, Stop: 32070, Start Num: 24

Candidate Starts for Jsquared_48:

(Start: 24 @32621 has 227 MA's), (49, 32543), (74, 32477), (90, 32372), (91, 32366), (95, 32345), (97, 32336), (101, 32318), (105, 32180),

Gene: JuliaChild_48 Start: 35588, Stop: 35097, Start Num: 33

Candidate Starts for JuliaChild_48:

(14, 35660), (20, 35621), (Start: 33 @35588 has 208 MA's), (57, 35507), (65, 35486), (76, 35417), (88, 35354), (91, 35345), (108, 35186), (112, 35150),

Gene: KADY_53 Start: 33884, Stop: 33297, Start Num: 24

Candidate Starts for KADY_53:

(Start: 24 @33884 has 227 MA's), (Start: 29 @33878 has 1 MA's), (60, 33740), (65, 33731), (73, 33704), (74, 33701), (78, 33641), (82, 33620), (105, 33413), (110, 33365),

Gene: KBG_49 Start: 36909, Stop: 36418, Start Num: 33

Candidate Starts for KBG_49:

(14, 36981), (20, 36942), (Start: 33 @36909 has 208 MA's), (57, 36828), (65, 36807), (88, 36675), (91, 36666), (108, 36507), (112, 36471),

Gene: KFPoly_48 Start: 33382, Stop: 32843, Start Num: 28

Candidate Starts for KFPoly_48:

(Start: 13 @33439 has 1 MA's), (Start: 15 @33424 has 2 MA's), (Start: 28 @33382 has 159 MA's), (82, 33124), (92, 33091), (101, 33052), (112, 32884),

Gene: KSSJEB_46 Start: 35208, Stop: 34714, Start Num: 33

Candidate Starts for KSSJEB_46:

(Start: 33 @35208 has 208 MA's), (57, 35127), (65, 35106), (88, 34974), (91, 34965), (102, 34914), (108, 34806), (112, 34770),

Gene: Kachowdy_50 Start: 33595, Stop: 33032, Start Num: 27

Candidate Starts for Kachowdy_50:

(Start: 13 @33652 has 1 MA's), (Start: 15 @33637 has 2 MA's), (Start: 16 @33625 has 23 MA's), (Start: 27 @33595 has 7 MA's), (41, 33526), (65, 33448), (72, 33415), (73, 33412), (82, 33328), (112, 33073),

Gene: Kalb97_54 Start: 33748, Stop: 33158, Start Num: 24

Candidate Starts for Kalb97_54:

(Start: 24 @33748 has 227 MA's), (Start: 29 @33742 has 1 MA's), (60, 33598), (65, 33589), (73, 33562), (82, 33478), (105, 33274), (110, 33226),

Gene: Kalnoky_54 Start: 33746, Stop: 33156, Start Num: 24

Candidate Starts for Kalnoky_54:

(Start: 24 @33746 has 227 MA's), (Start: 29 @33740 has 1 MA's), (60, 33596), (65, 33587), (73, 33560), (82, 33476), (105, 33272), (110, 33224),

Gene: Kalpine_48 Start: 33928, Stop: 33407, Start Num: 24

Candidate Starts for Kalpine_48:

(Start: 19 @33943 has 64 MA's), (Start: 24 @33928 has 227 MA's), (72, 33781), (75, 33736), (77, 33730), (79, 33706), (92, 33667), (105, 33517), (108, 33499), (110, 33469),

Gene: Kamy_49 Start: 33390, Stop: 32851, Start Num: 28

Candidate Starts for Kamy_49:

(Start: 13 @33447 has 1 MA's), (Start: 15 @33432 has 2 MA's), (Start: 28 @33390 has 159 MA's), (82, 33132), (92, 33099), (101, 33060), (112, 32892),

Gene: Kanely_48 Start: 35863, Stop: 35372, Start Num: 33

Candidate Starts for Kanely_48:

(Start: 33 @35863 has 208 MA's), (57, 35782), (65, 35761), (82, 35653), (88, 35629), (91, 35620), (108, 35461), (112, 35425),

Gene: Katalie136_48 Start: 33364, Stop: 32825, Start Num: 28

Candidate Starts for Katalie136_48:

(Start: 13 @33421 has 1 MA's), (Start: 15 @33406 has 2 MA's), (Start: 28 @33364 has 159 MA's), (82, 33106), (92, 33073), (101, 33034), (112, 32866),

Gene: KatherineG_55 Start: 33020, Stop: 32460, Start Num: 36

Candidate Starts for KatherineG_55:

(Start: 36 @33020 has 19 MA's), (37, 33014), (57, 32915), (67, 32888), (70, 32885), (84, 32774), (90, 32753), (92, 32744), (94, 32735), (112, 32516),

Gene: Kazan_53 Start: 32784, Stop: 32212, Start Num: 24

Candidate Starts for Kazan_53:

(Start: 19 @32799 has 64 MA's), (Start: 24 @32784 has 227 MA's), (57, 32673), (65, 32655), (95, 32493), (101, 32466), (105, 32322), (106, 32319),

Gene: Kenmech_51 Start: 36926, Stop: 36435, Start Num: 33

Candidate Starts for Kenmech_51:

(14, 36998), (20, 36959), (Start: 33 @36926 has 208 MA's), (57, 36845), (65, 36824), (76, 36755), (88, 36692), (91, 36683), (108, 36524), (112, 36488),

Gene: Kerberos_52 Start: 33468, Stop: 32890, Start Num: 24

Candidate Starts for Kerberos_52:

(Start: 19 @33483 has 64 MA's), (Start: 24 @33468 has 227 MA's), (60, 33351), (65, 33345), (72, 33321), (76, 33273), (80, 33243), (97, 33174), (98, 33165), (101, 33156), (105, 33003),

Gene: Keziacharles14_50 Start: 34743, Stop: 34183, Start Num: 24

Candidate Starts for Keziacharles14_50:

(Start: 19 @34758 has 64 MA's), (Start: 24 @34743 has 227 MA's), (56, 34641), (57, 34638), (65, 34620), (101, 34431), (105, 34290),

Gene: Killigrew_47 Start: 35642, Stop: 35133, Start Num: 33

Candidate Starts for Killigrew_47:

(14, 35714), (20, 35675), (Start: 33 @35642 has 208 MA's), (57, 35561), (65, 35540), (88, 35408), (91, 35399), (112, 35204),

Gene: Kimona_49 Start: 32039, Stop: 31437, Start Num: 15

Candidate Starts for Kimona_49:

(Start: 13 @32054 has 1 MA's), (Start: 15 @32039 has 2 MA's), (Start: 28 @31997 has 159 MA's), (65, 31844), (74, 31805), (76, 31763), (82, 31724), (92, 31694), (112, 31478),

Gene: KingCyrus_52 Start: 35409, Stop: 34882, Start Num: 24

Candidate Starts for KingCyrus_52:

(Start: 19 @35424 has 64 MA's), (Start: 24 @35409 has 227 MA's), (49, 35322), (62, 35286), (72, 35259), (75, 35214), (77, 35208), (79, 35184), (92, 35145), (105, 34992), (108, 34974), (110, 34944),

Gene: Kingmustik0402_49 Start: 33377, Stop: 32838, Start Num: 28

Candidate Starts for Kingmustik0402_49:

(Start: 13 @33434 has 1 MA's), (Start: 15 @33419 has 2 MA's), (Start: 28 @33377 has 159 MA's), (82, 33119), (92, 33086), (101, 33047), (112, 32879),

Gene: Kinmap_47 Start: 32221, Stop: 31706, Start Num: 24

Candidate Starts for Kinmap_47:

(17, 32248), (Start: 19 @32236 has 64 MA's), (Start: 24 @32221 has 227 MA's), (66, 32110), (72, 32089), (73, 32086), (82, 32002), (91, 31972), (92, 31969), (105, 31816), (106, 31813),

Gene: Kipper29_52 Start: 32812, Stop: 32225, Start Num: 19

Candidate Starts for Kipper29_52:

(Start: 19 @32812 has 64 MA's), (Start: 24 @32797 has 227 MA's), (57, 32686), (65, 32668), (95, 32506), (101, 32479), (105, 32335), (106, 32332),

Gene: KittenMittens_45 Start: 32313, Stop: 31765, Start Num: 28

Candidate Starts for KittenMittens_45:

(Start: 28 @32313 has 159 MA's), (41, 32244), (66, 32160), (68, 32157), (72, 32139), (73, 32136), (82, 32052), (92, 32019), (112, 31812),

Gene: Koduck_51 Start: 32906, Stop: 32382, Start Num: 24

Candidate Starts for Koduck_51:

(Start: 19 @32921 has 64 MA's), (Start: 24 @32906 has 227 MA's), (49, 32819), (58, 32798), (62, 32786), (72, 32759), (75, 32714), (77, 32708), (79, 32684), (92, 32645), (105, 32492),

Gene: Koko_53 Start: 32908, Stop: 32351, Start Num: 24

Candidate Starts for Koko_53:

(Start: 1 @33106 has 4 MA's), (2, 33091), (3, 33070), (4, 33040), (5, 33034), (Start: 24 @32908 has 227 MA's), (76, 32698), (77, 32695), (92, 32632), (94, 32623), (105, 32461), (106, 32458),

Gene: Koreni_48 Start: 33069, Stop: 32530, Start Num: 28

Candidate Starts for Koreni_48:

(Start: 13 @33126 has 1 MA's), (Start: 15 @33111 has 2 MA's), (Start: 28 @33069 has 159 MA's), (82, 32811), (92, 32778), (101, 32739), (112, 32571),

Gene: Kratark_49 Start: 33545, Stop: 33012, Start Num: 28

Candidate Starts for Kratark_49:

(Start: 28 @33545 has 159 MA's), (82, 33287), (92, 33254), (101, 33215), (112, 33053),

Gene: Kremtemulon_49 Start: 33336, Stop: 32800, Start Num: 28

Candidate Starts for Kremtemulon_49:

(Start: 13 @33393 has 1 MA's), (Start: 15 @33378 has 2 MA's), (Start: 28 @33336 has 159 MA's), (82, 33078), (92, 33045), (101, 33006), (112, 32841),

Gene: Krishelle_39 Start: 30158, Stop: 29634, Start Num: 31

Candidate Starts for Krishelle_39:

(Start: 31 @30158 has 36 MA's), (60, 30053), (105, 29741), (107, 29732), (108, 29723), (110, 29693),

Gene: Kristoff_48 Start: 33413, Stop: 32862, Start Num: 28

Candidate Starts for Kristoff_48:

(Start: 28 @33413 has 159 MA's), (41, 33344), (73, 33233), (82, 33149), (89, 33125), (92, 33116), (94, 33107), (112, 32909),

Gene: Kugel_48 Start: 35883, Stop: 35392, Start Num: 33

Candidate Starts for Kugel_48:

(14, 35955), (20, 35916), (Start: 33 @35883 has 208 MA's), (57, 35802), (65, 35781), (88, 35649), (91, 35640), (108, 35481), (112, 35445),

Gene: KyMonks1A_49 Start: 35782, Stop: 35288, Start Num: 33

Candidate Starts for KyMonks1A_49:

(14, 35854), (20, 35815), (Start: 33 @35782 has 208 MA's), (57, 35701), (65, 35680), (76, 35611), (88, 35548), (91, 35539), (108, 35377), (112, 35341),

Gene: Kyee_49 Start: 33386, Stop: 32847, Start Num: 28

Candidate Starts for Kyee_49:

(Start: 13 @33443 has 1 MA's), (Start: 15 @33428 has 2 MA's), (Start: 28 @33386 has 159 MA's), (82, 33128), (92, 33095), (101, 33056), (112, 32888),

Gene: Kykar_47 Start: 35565, Stop: 35086, Start Num: 33

Candidate Starts for Kykar_47:

(14, 35637), (20, 35598), (Start: 33 @35565 has 208 MA's), (57, 35484), (65, 35463), (76, 35394), (88, 35331), (91, 35322), (108, 35175), (112, 35139),

Gene: L5_49 Start: 32996, Stop: 32457, Start Num: 19

Candidate Starts for L5_49:

(Start: 19 @32996 has 64 MA's), (Start: 24 @32981 has 227 MA's), (49, 32894), (58, 32873), (62, 32861), (72, 32834), (75, 32789), (77, 32783), (79, 32759), (92, 32720), (105, 32567),

Gene: LBerry_54 Start: 33860, Stop: 33270, Start Num: 24

Candidate Starts for LBerry_54:

(Start: 24 @33860 has 227 MA's), (Start: 29 @33854 has 1 MA's), (60, 33710), (65, 33701), (73, 33674), (82, 33590), (105, 33386), (110, 33338),

Gene: LHTSCC_51 Start: 33807, Stop: 33271, Start Num: 28

Candidate Starts for LHTSCC_51:

(12, 33870), (Start: 28 @33807 has 159 MA's), (82, 33549), (92, 33516), (101, 33477), (112, 33312),

Gene: LadyBird_55 Start: 34524, Stop: 34000, Start Num: 24

Candidate Starts for LadyBird_55:

(Start: 19 @34539 has 64 MA's), (Start: 24 @34524 has 227 MA's), (56, 34419), (72, 34374), (79, 34299), (92, 34260), (105, 34110), (108, 34092), (110, 34062),

Gene: Lambert1_49 Start: 33695, Stop: 33096, Start Num: 16

Candidate Starts for Lambert1_49:

(Start: 13 @33722 has 1 MA's), (Start: 15 @33707 has 2 MA's), (Start: 16 @33695 has 23 MA's), (Start: 27 @33665 has 7 MA's), (41, 33596), (65, 33518), (82, 33398), (112, 33137),

Gene: Lamina13_47 Start: 35176, Stop: 34685, Start Num: 33

Candidate Starts for Lamina13_47:

(Start: 33 @35176 has 208 MA's), (57, 35095), (65, 35074), (88, 34942), (91, 34933), (102, 34882), (108, 34774), (112, 34738),

Gene: Landor_50 Start: 34892, Stop: 34347, Start Num: 24

Candidate Starts for Landor_50:

(Start: 19 @34907 has 64 MA's), (Start: 24 @34892 has 227 MA's), (74, 34763), (76, 34721), (87, 34664), (91, 34652), (95, 34631), (101, 34604), (105, 34454), (108, 34436),

Gene: LappelDuVide_49 Start: 33387, Stop: 32848, Start Num: 28

Candidate Starts for LappelDuVide_49:

(Start: 13 @33444 has 1 MA's), (Start: 15 @33429 has 2 MA's), (Start: 28 @33387 has 159 MA's), (82, 33129), (92, 33096), (101, 33057), (112, 32889),

Gene: Larenn_49 Start: 33825, Stop: 33295, Start Num: 19

Candidate Starts for Larenn_49:

(Start: 19 @33825 has 64 MA's), (Start: 24 @33810 has 227 MA's), (52, 33738), (62, 33705), (72, 33678), (77, 33627), (79, 33603), (82, 33591), (92, 33564), (105, 33408), (108, 33390),

Gene: LarryKay_53 Start: 33886, Stop: 33299, Start Num: 24

Candidate Starts for LarryKay_53:

(Start: 24 @33886 has 227 MA's), (Start: 29 @33880 has 1 MA's), (60, 33742), (65, 33733), (73, 33706), (74, 33703), (78, 33643), (82, 33622), (105, 33415), (110, 33367),

Gene: LastResort_53 Start: 32534, Stop: 31992, Start Num: 36

Candidate Starts for LastResort_53:

(Start: 36 @32534 has 19 MA's), (37, 32528), (57, 32423), (67, 32396), (70, 32393), (84, 32282), (90, 32261), (92, 32252), (94, 32243), (105, 32096), (110, 32051),

Gene: Lemur_49 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for Lemur_49:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: LeoAvram_49 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for LeoAvram_49:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Leogania_50 Start: 34849, Stop: 34322, Start Num: 24

Candidate Starts for Leogania_50:

(Start: 19 @34864 has 64 MA's), (Start: 24 @34849 has 227 MA's), (49, 34765), (62, 34723), (72, 34696), (75, 34651), (77, 34645), (79, 34621), (82, 34609), (92, 34582), (105, 34432), (108, 34414), (110, 34384),

Gene: Lesedi_44 Start: 34760, Stop: 34239, Start Num: 33

Candidate Starts for Lesedi_44:

(14, 34832), (20, 34793), (Start: 33 @34760 has 208 MA's), (57, 34649), (65, 34628), (88, 34496), (91, 34487), (108, 34328), (112, 34292),

Gene: Lev2_42 Start: 32220, Stop: 31687, Start Num: 32

Candidate Starts for Lev2_42:

(Start: 32 @32220 has 38 MA's), (62, 32088), (65, 32082), (92, 31938),

Gene: Leviathan_52 Start: 34282, Stop: 33740, Start Num: 19

Candidate Starts for Leviathan_52:

(Start: 19 @34282 has 64 MA's), (Start: 24 @34267 has 227 MA's), (49, 34180), (62, 34144), (72, 34117), (75, 34072), (77, 34066), (79, 34042), (92, 34003), (105, 33850), (108, 33832), (110, 33802),

Gene: Licorice_50 Start: 36999, Stop: 36508, Start Num: 33

Candidate Starts for Licorice_50:

(14, 37071), (20, 37032), (Start: 33 @36999 has 208 MA's), (57, 36918), (65, 36897), (76, 36828), (88, 36765), (91, 36756), (112, 36561),

Gene: LilBib_47 Start: 36057, Stop: 35566, Start Num: 33

Candidate Starts for LilBib_47:

(14, 36129), (20, 36090), (Start: 33 @36057 has 208 MA's), (57, 35976), (65, 35955), (88, 35823), (91, 35814), (108, 35655), (112, 35619),

Gene: LilTurb_51 Start: 34106, Stop: 33573, Start Num: 19

Candidate Starts for LilTurb_51:

(Start: 19 @34106 has 64 MA's), (Start: 24 @34091 has 227 MA's), (49, 34007), (62, 33971), (75, 33899), (77, 33893), (79, 33869), (80, 33866), (82, 33857), (92, 33830), (105, 33683), (108, 33665), (110, 33635),

Gene: Lilbunny_51 Start: 32558, Stop: 31995, Start Num: 19

Candidate Starts for Lilbunny_51:

(7, 32642), (8, 32639), (Start: 19 @32558 has 64 MA's), (Start: 24 @32543 has 227 MA's), (76, 32333), (77, 32330), (92, 32267), (94, 32258), (105, 32105), (106, 32102),

Gene: Lilith_54 Start: 33849, Stop: 33259, Start Num: 24

Candidate Starts for Lilith_54:

(Start: 24 @33849 has 227 MA's), (Start: 29 @33843 has 1 MA's), (60, 33699), (65, 33690), (73, 33663), (82, 33579), (105, 33375), (110, 33327),

Gene: Lilleskat_48 Start: 33621, Stop: 33058, Start Num: 24

Candidate Starts for Lilleskat_48:

(Start: 19 @33636 has 64 MA's), (Start: 24 @33621 has 227 MA's), (66, 33495), (78, 33405), (101, 33306), (105, 33165),

Gene: Lillie_39 Start: 29798, Stop: 29274, Start Num: 31

Candidate Starts for Lillie_39:

(Start: 31 @29798 has 36 MA's), (60, 29693), (105, 29381), (107, 29372), (108, 29363), (110, 29333),

Gene: LittleB_49 Start: 33389, Stop: 32850, Start Num: 28

Candidate Starts for LittleB_49:

(Start: 13 @33446 has 1 MA's), (Start: 15 @33431 has 2 MA's), (Start: 28 @33389 has 159 MA's), (82, 33131), (92, 33098), (101, 33059), (112, 32891),

Gene: LittleCherry_43 Start: 32555, Stop: 32028, Start Num: 32

Candidate Starts for LittleCherry_43:

(Start: 32 @32555 has 38 MA's), (62, 32420), (65, 32414), (92, 32270), (113, 32069), (114, 32051),

Gene: LittleGuy_49 Start: 33284, Stop: 32745, Start Num: 28

Candidate Starts for LittleGuy_49:

(Start: 13 @33341 has 1 MA's), (Start: 15 @33326 has 2 MA's), (Start: 28 @33284 has 159 MA's), (82, 33026), (92, 32993), (101, 32954), (112, 32786),

Gene: LochMonster_50 Start: 33624, Stop: 33085, Start Num: 28

Candidate Starts for LochMonster_50:

(Start: 13 @33681 has 1 MA's), (Start: 15 @33666 has 2 MA's), (Start: 28 @33624 has 159 MA's), (82, 33366), (92, 33333), (101, 33294), (112, 33126),

Gene: Lockley_46 Start: 35284, Stop: 34793, Start Num: 33

Candidate Starts for Lockley_46:

(14, 35356), (20, 35317), (Start: 33 @35284 has 208 MA's), (57, 35203), (65, 35182), (82, 35074), (88, 35050), (91, 35041), (108, 34882), (112, 34846),

Gene: Lokk_47 Start: 33016, Stop: 32498, Start Num: 24

Candidate Starts for Lokk_47:

(17, 33043), (Start: 19 @33031 has 64 MA's), (Start: 24 @33016 has 227 MA's), (49, 32944), (62, 32908), (65, 32902), (72, 32881), (77, 32830), (79, 32806), (82, 32794), (92, 32767), (105, 32608), (108, 32590), (110, 32560),

Gene: LoneWolf_51 Start: 33659, Stop: 33093, Start Num: 24

Candidate Starts for LoneWolf_51:

(Start: 19 @33674 has 64 MA's), (Start: 24 @33659 has 227 MA's), (56, 33557), (57, 33554), (78, 33443), (101, 33344), (105, 33200),

Gene: Looper_54 Start: 32511, Stop: 31969, Start Num: 36

Candidate Starts for Looper_54:

(Start: 36 @32511 has 19 MA's), (37, 32505), (57, 32400), (67, 32373), (70, 32370), (84, 32259), (90, 32238), (92, 32229), (94, 32220), (105, 32073), (110, 32028),

Gene: Lopton_48 Start: 36884, Stop: 36393, Start Num: 33

Candidate Starts for Lopton_48:

(14, 36956), (20, 36917), (Start: 33 @36884 has 208 MA's), (57, 36803), (65, 36782), (76, 36713), (88, 36650), (91, 36641), (108, 36482), (112, 36446),

Gene: Lorenzo_49 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Lorenzo_49:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Loser_52 Start: 34655, Stop: 34110, Start Num: 19

Candidate Starts for Loser_52:

(Start: 19 @34655 has 64 MA's), (Start: 24 @34640 has 227 MA's), (62, 34520), (72, 34493), (75, 34448), (77, 34442), (79, 34418), (91, 34382), (92, 34379), (94, 34370), (105, 34223), (108, 34205), (110, 34175),

Gene: Louie6_52 Start: 33885, Stop: 33298, Start Num: 24

Candidate Starts for Louie6_52:

(Start: 24 @33885 has 227 MA's), (Start: 29 @33879 has 1 MA's), (60, 33741), (65, 33732), (73, 33705), (74, 33702), (78, 33642), (82, 33621), (105, 33414), (110, 33366),

Gene: Luchador_54 Start: 35277, Stop: 34750, Start Num: 24

Candidate Starts for Luchador_54:

(Start: 19 @35292 has 64 MA's), (Start: 24 @35277 has 227 MA's), (50, 35190), (62, 35157), (72, 35130), (75, 35085), (77, 35079), (79, 35055), (92, 35016), (94, 35007), (105, 34860), (110, 34815),

Gene: Lucivia_51 Start: 33320, Stop: 32751, Start Num: 24

Candidate Starts for Lucivia_51:

(Start: 24 @33320 has 227 MA's), (62, 33185), (96, 33020), (105, 32864),

Gene: Lucyedi_51 Start: 33497, Stop: 32934, Start Num: 19

Candidate Starts for Lucyedi_51:

(Start: 19 @33497 has 64 MA's), (Start: 24 @33482 has 227 MA's), (54, 33365), (75, 33263), (77, 33257), (92, 33194), (94, 33185), (105, 33041),

Gene: LugYA_56 Start: 33857, Stop: 33267, Start Num: 24

Candidate Starts for LugYA_56:

(Start: 24 @33857 has 227 MA's), (Start: 29 @33851 has 1 MA's), (60, 33707), (65, 33698), (73, 33671), (82, 33587), (105, 33383), (110, 33335),

Gene: Lunsford_50 Start: 33382, Stop: 32843, Start Num: 28

Candidate Starts for Lunsford_50:

(Start: 13 @33439 has 1 MA's), (Start: 15 @33424 has 2 MA's), (Start: 28 @33382 has 159 MA's), (82, 33124), (92, 33091), (101, 33052), (112, 32884),

Gene: MA5_50 Start: 33050, Stop: 32487, Start Num: 28

Candidate Starts for MA5_50:

(Start: 13 @33107 has 1 MA's), (Start: 15 @33092 has 2 MA's), (Start: 28 @33050 has 159 MA's), (41, 32981), (65, 32903), (73, 32867), (82, 32783), (112, 32528),

Gene: MK4_50 Start: 33179, Stop: 32574, Start Num: 16

Candidate Starts for MK4_50:

(Start: 13 @33206 has 1 MA's), (Start: 15 @33191 has 2 MA's), (Start: 16 @33179 has 23 MA's), (Start: 28 @33149 has 159 MA's), (41, 33077), (65, 32999), (72, 32966), (73, 32963), (82, 32879), (94, 32834), (106, 32666), (112, 32615),

Gene: MPlant7149_46 Start: 34826, Stop: 34335, Start Num: 33

Candidate Starts for MPlant7149_46:

(14, 34898), (20, 34859), (Start: 33 @34826 has 208 MA's), (57, 34745), (65, 34724), (88, 34592), (91, 34583), (108, 34424), (112, 34388),

Gene: MaCh_51 Start: 33250, Stop: 32684, Start Num: 24

Candidate Starts for MaCh_51:

(Start: 24 @33250 has 227 MA's), (71, 33097), (96, 32956), (105, 32797),

Gene: Mabel_50 Start: 32855, Stop: 32286, Start Num: 24

Candidate Starts for Mabel_50:

(Start: 24 @32855 has 227 MA's), (62, 32720), (96, 32555), (105, 32399),

Gene: MadMarie_53 Start: 33858, Stop: 33268, Start Num: 24

Candidate Starts for MadMarie_53:

(Start: 24 @33858 has 227 MA's), (Start: 29 @33852 has 1 MA's), (60, 33708), (65, 33699), (73, 33672), (82, 33588), (105, 33384), (110, 33336),

Gene: Magnar_46 Start: 35936, Stop: 35445, Start Num: 33

Candidate Starts for Magnar_46:

(Start: 33 @35936 has 208 MA's), (57, 35855), (65, 35834), (82, 35726), (88, 35702), (91, 35693), (108, 35534), (112, 35498),

Gene: Magnito_44 Start: 34508, Stop: 34017, Start Num: 33

Candidate Starts for Magnito_44:

(Start: 33 @34508 has 208 MA's), (57, 34427), (65, 34406), (88, 34274), (91, 34265), (108, 34106), (112, 34070),

Gene: Mainiac_53 Start: 33850, Stop: 33260, Start Num: 24

Candidate Starts for Mainiac_53:

(Start: 24 @33850 has 227 MA's), (Start: 29 @33844 has 1 MA's), (60, 33700), (65, 33691), (73, 33664), (82, 33580), (105, 33376), (110, 33328),

Gene: MajorMajor_49 Start: 32652, Stop: 32137, Start Num: 24

Candidate Starts for MajorMajor_49:

(Start: 24 @32652 has 227 MA's), (49, 32574), (62, 32541), (77, 32463), (79, 32439), (92, 32400), (105, 32247),

Gene: Makemake_47 Start: 36354, Stop: 35863, Start Num: 33

Candidate Starts for Makemake_47:

(14, 36426), (20, 36387), (Start: 33 @36354 has 208 MA's), (57, 36273), (65, 36252), (88, 36120), (91, 36111), (108, 35952), (112, 35916),

Gene: Malec_50 Start: 34392, Stop: 33859, Start Num: 19

Candidate Starts for Malec_50:

(Start: 19 @34392 has 64 MA's), (Start: 24 @34377 has 227 MA's), (52, 34305), (62, 34272), (72, 34245), (77, 34194), (79, 34170), (82, 34158), (92, 34131), (105, 33972), (108, 33954),

Gene: Malinsilva_55 Start: 33848, Stop: 33258, Start Num: 24

Candidate Starts for Malinsilva_55:

(Start: 24 @33848 has 227 MA's), (Start: 29 @33842 has 1 MA's), (60, 33698), (65, 33689), (73, 33662), (82, 33578), (105, 33374), (110, 33326),

Gene: Maminiaina_49 Start: 33426, Stop: 32860, Start Num: 24

Candidate Starts for Maminiaina_49:

(Start: 19 @33441 has 64 MA's), (Start: 24 @33426 has 227 MA's), (56, 33324), (57, 33321), (78, 33210), (101, 33111), (105, 32967),

Gene: Manatee_48 Start: 35062, Stop: 34571, Start Num: 33

Candidate Starts for Manatee_48:

(Start: 33 @35062 has 208 MA's), (57, 34981), (65, 34960), (82, 34852), (88, 34828), (91, 34819), (108, 34660), (112, 34624),

Gene: Manu_53 Start: 33749, Stop: 33159, Start Num: 24

Candidate Starts for Manu_53:

(Start: 24 @33749 has 227 MA's), (Start: 29 @33743 has 1 MA's), (60, 33599), (65, 33590), (73, 33563), (82, 33479), (105, 33275), (110, 33227),

Gene: MarQuardt_53 Start: 33858, Stop: 33268, Start Num: 24

Candidate Starts for MarQuardt_53:

(Start: 24 @33858 has 227 MA's), (Start: 29 @33852 has 1 MA's), (60, 33708), (65, 33699), (73, 33672), (82, 33588), (105, 33384), (110, 33336),

Gene: Marcell_45 Start: 35220, Stop: 34729, Start Num: 33

Candidate Starts for Marcell_45:

(14, 35292), (20, 35253), (Start: 33 @35220 has 208 MA's), (57, 35139), (65, 35118), (76, 35049), (88, 34986), (91, 34977), (108, 34818), (112, 34782),

Gene: Marchesa_50 Start: 33581, Stop: 33030, Start Num: 27

Candidate Starts for Marchesa_50:

(Start: 13 @33638 has 1 MA's), (Start: 15 @33623 has 2 MA's), (Start: 16 @33611 has 23 MA's), (Start: 27 @33581 has 7 MA's), (41, 33512), (65, 33434), (73, 33398), (82, 33314), (112, 33071),

Gene: Marchy_41 Start: 31968, Stop: 31489, Start Num: 33

Candidate Starts for Marchy_41:

(Start: 33 @31968 has 208 MA's), (Start: 35 @31962 has 1 MA's), (57, 31887), (65, 31866), (76, 31797), (88, 31734), (91, 31725), (108, 31578), (112, 31542),

Gene: Marge_47 Start: 36031, Stop: 35540, Start Num: 33

Candidate Starts for Marge_47:

(14, 36103), (20, 36064), (Start: 33 @36031 has 208 MA's), (57, 35950), (65, 35929), (76, 35860), (82, 35821), (88, 35797), (91, 35788), (108, 35629), (112, 35593),

Gene: Margo_49 Start: 33721, Stop: 33122, Start Num: 16

Candidate Starts for Margo_49:

(Start: 13 @33748 has 1 MA's), (Start: 15 @33733 has 2 MA's), (Start: 16 @33721 has 23 MA's), (Start: 27 @33691 has 7 MA's), (41, 33622), (65, 33544), (82, 33424), (112, 33163),

Gene: Marie_53 Start: 33856, Stop: 33266, Start Num: 24

Candidate Starts for Marie_53:

(Start: 24 @33856 has 227 MA's), (Start: 29 @33850 has 1 MA's), (60, 33706), (65, 33697), (73, 33670), (82, 33586), (105, 33382), (110, 33334),

Gene: Marius_54 Start: 33746, Stop: 33156, Start Num: 24

Candidate Starts for Marius_54:

(Start: 24 @33746 has 227 MA's), (Start: 29 @33740 has 1 MA's), (60, 33596), (65, 33587), (73, 33560), (82, 33476), (105, 33272), (110, 33224),

Gene: Maroc7_45 Start: 35124, Stop: 34585, Start Num: 33

Candidate Starts for Maroc7_45:

(14, 35196), (20, 35157), (Start: 33 @35124 has 208 MA's), (57, 35013), (63, 34998), (108, 34674), (112, 34638),

Gene: Marsha_47 Start: 36587, Stop: 36096, Start Num: 33

Candidate Starts for Marsha_47:

(14, 36659), (20, 36620), (Start: 33 @36587 has 208 MA's), (57, 36506), (65, 36485), (76, 36416), (82, 36377), (88, 36353), (91, 36344), (108, 36185), (112, 36149),

Gene: MaryBeth_47 Start: 35493, Stop: 35002, Start Num: 33

Candidate Starts for MaryBeth_47:

(14, 35565), (20, 35526), (Start: 33 @35493 has 208 MA's), (57, 35412), (65, 35391), (88, 35259), (91, 35250), (108, 35091), (112, 35055),

Gene: MarysWell_41 Start: 32408, Stop: 31881, Start Num: 32

Candidate Starts for MarysWell_41:

(Start: 32 @32408 has 38 MA's), (62, 32273), (65, 32267), (92, 32123),

Gene: Maverick_49 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Maverick_49:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Maxo_50 Start: 33390, Stop: 32851, Start Num: 28

Candidate Starts for Maxo_50:

(Start: 13 @33447 has 1 MA's), (Start: 15 @33432 has 2 MA's), (Start: 28 @33390 has 159 MA's), (82, 33132), (92, 33099), (101, 33060), (112, 32892),

Gene: Mazhar510_49 Start: 33389, Stop: 32850, Start Num: 28

Candidate Starts for Mazhar510_49:

(Start: 13 @33446 has 1 MA's), (Start: 15 @33431 has 2 MA's), (Start: 28 @33389 has 159 MA's), (82, 33131), (92, 33098), (101, 33059), (112, 32891),

Gene: McFly_52 Start: 32778, Stop: 32206, Start Num: 24

Candidate Starts for McFly_52:

(Start: 19 @32793 has 64 MA's), (Start: 24 @32778 has 227 MA's), (57, 32667), (65, 32649), (95, 32487), (101, 32460), (105, 32316), (106, 32313),

Gene: McGuire_48 Start: 35312, Stop: 34818, Start Num: 33

Candidate Starts for McGuire_48:

(Start: 33 @35312 has 208 MA's), (57, 35231), (65, 35210), (88, 35078), (91, 35069), (108, 34910), (112, 34874),

Gene: Medusa_49 Start: 33387, Stop: 32848, Start Num: 28

Candidate Starts for Medusa_49:

(Start: 13 @33444 has 1 MA's), (Start: 15 @33429 has 2 MA's), (Start: 28 @33387 has 159 MA's), (82, 33129), (92, 33096), (101, 33057), (112, 32889),

Gene: MeeZee_49 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for MeeZee_49:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: Melvin_51 Start: 33383, Stop: 32844, Start Num: 28

Candidate Starts for Melvin_51:

(Start: 13 @33440 has 1 MA's), (Start: 15 @33425 has 2 MA's), (Start: 28 @33383 has 159 MA's), (82, 33125), (92, 33092), (101, 33053), (112, 32885),

Gene: MetalQZJ_46 Start: 35493, Stop: 35002, Start Num: 33

Candidate Starts for MetalQZJ_46:

(14, 35565), (20, 35526), (Start: 33 @35493 has 208 MA's), (57, 35412), (65, 35391), (88, 35259), (91, 35250), (108, 35091), (112, 35055),

Gene: Methuselah_49 Start: 33880, Stop: 33293, Start Num: 24

Candidate Starts for Methuselah_49:

(Start: 24 @33880 has 227 MA's), (Start: 29 @33874 has 1 MA's), (60, 33736), (65, 33727), (73, 33700), (74, 33697), (78, 33637), (82, 33616), (105, 33409), (110, 33361),

Gene: Micasa_44 Start: 32684, Stop: 32157, Start Num: 32

Candidate Starts for Micasa_44:

(Start: 32 @32684 has 38 MA's), (62, 32549), (65, 32543), (92, 32399), (114, 32180),

Gene: Michley_46 Start: 35011, Stop: 34520, Start Num: 33

Candidate Starts for Michley_46:

(Start: 33 @35011 has 208 MA's), (57, 34930), (65, 34909), (76, 34840), (82, 34801), (88, 34777), (91, 34768), (108, 34609), (112, 34573),

Gene: Microwolf_53 Start: 33872, Stop: 33267, Start Num: 24

Candidate Starts for Microwolf_53:

(Start: 24 @33872 has 227 MA's), (Start: 29 @33866 has 1 MA's), (60, 33722), (65, 33713), (73, 33686), (82, 33602), (105, 33383), (110, 33335),

Gene: MiculUcigas_50 Start: 33618, Stop: 33094, Start Num: 19

Candidate Starts for MiculUcigas_50:

(Start: 19 @33618 has 64 MA's), (Start: 24 @33603 has 227 MA's), (49, 33534), (62, 33498), (72, 33471), (75, 33426), (77, 33420), (79, 33396), (82, 33384), (92, 33357), (94, 33348), (97, 33330), (105, 33207),

Gene: Midas2_42 Start: 32408, Stop: 31872, Start Num: 32

Candidate Starts for Midas2_42:

(Start: 32 @32408 has 38 MA's), (62, 32273), (65, 32267), (92, 32123), (114, 31895),

Gene: Miko_47 Start: 33800, Stop: 33279, Start Num: 24

Candidate Starts for Miko_47:

(17, 33827), (Start: 19 @33815 has 64 MA's), (Start: 24 @33800 has 227 MA's), (49, 33728), (62, 33692), (65, 33686), (72, 33665), (77, 33614), (79, 33590), (82, 33578), (92, 33551), (105, 33392), (108, 33374),

Gene: Milcery_43 Start: 32512, Stop: 31985, Start Num: 32

Candidate Starts for Milcery_43:

(Start: 32 @32512 has 38 MA's), (62, 32377), (65, 32371), (92, 32227), (114, 32008),

Gene: Millski_48 Start: 33389, Stop: 32850, Start Num: 28

Candidate Starts for Millski_48:

(Start: 13 @33446 has 1 MA's), (Start: 15 @33431 has 2 MA's), (Start: 28 @33389 has 159 MA's), (82, 33131), (92, 33098), (101, 33059), (112, 32891),

Gene: MinecraftSteve_55 Start: 32820, Stop: 32260, Start Num: 36

Candidate Starts for MinecraftSteve_55:

(Start: 36 @32820 has 19 MA's), (37, 32814), (57, 32715), (67, 32688), (70, 32685), (84, 32574), (90, 32553), (92, 32544), (94, 32535), (112, 32316),

Gene: Miramae_47 Start: 32831, Stop: 32283, Start Num: 28

Candidate Starts for Miramae_47:

(Start: 28 @32831 has 159 MA's), (66, 32684), (92, 32534), (106, 32372), (112, 32324),

Gene: Misomonster_54 Start: 33883, Stop: 33296, Start Num: 24

Candidate Starts for Misomonster_54:

(Start: 24 @33883 has 227 MA's), (Start: 29 @33877 has 1 MA's), (60, 33739), (65, 33730), (73, 33703), (74, 33700), (78, 33640), (82, 33619), (105, 33412), (110, 33364),

Gene: MissWhite_49 Start: 32171, Stop: 31665, Start Num: 24

Candidate Starts for MissWhite_49:

(Start: 19 @32186 has 64 MA's), (Start: 24 @32171 has 227 MA's), (62, 32063), (76, 31988), (77, 31985), (79, 31961), (92, 31922), (105, 31775), (108, 31757),

Gene: Mkhuseleli_46 Start: 34896, Stop: 34405, Start Num: 33

Candidate Starts for Mkhuseleli_46:

(14, 34968), (20, 34929), (Start: 33 @34896 has 208 MA's), (57, 34815), (65, 34794), (76, 34725), (82, 34686), (88, 34662), (91, 34653), (108, 34494), (112, 34458),

Gene: Molly_48 Start: 34897, Stop: 34406, Start Num: 33

Candidate Starts for Molly_48:

(Start: 33 @34897 has 208 MA's), (57, 34816), (65, 34795), (76, 34726), (88, 34663), (91, 34654), (108, 34495), (112, 34459),

Gene: Monet_50 Start: 37023, Stop: 36532, Start Num: 33

Candidate Starts for Monet_50:

(14, 37095), (20, 37056), (Start: 33 @37023 has 208 MA's), (57, 36942), (65, 36921), (88, 36789), (91, 36780), (108, 36621), (112, 36585),

Gene: MoneyMay_53 Start: 33856, Stop: 33266, Start Num: 24

Candidate Starts for MoneyMay_53:

(Start: 24 @33856 has 227 MA's), (Start: 29 @33850 has 1 MA's), (60, 33706), (65, 33697), (73, 33670), (82, 33586), (105, 33382), (110, 33334),

Gene: Moose_47 Start: 35394, Stop: 34903, Start Num: 33

Candidate Starts for Moose_47:

(14, 35466), (20, 35427), (Start: 33 @35394 has 208 MA's), (57, 35313), (65, 35292), (88, 35160), (91, 35151), (108, 34992), (112, 34956),

Gene: Morpher26_48 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for Morpher26_48:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: Morrow_50 Start: 33394, Stop: 32855, Start Num: 28

Candidate Starts for Morrow_50:

(Start: 13 @33451 has 1 MA's), (Start: 15 @33436 has 2 MA's), (Start: 28 @33394 has 159 MA's), (82, 33136), (92, 33103), (101, 33064), (112, 32896),

Gene: MrGordo_46 Start: 34805, Stop: 34314, Start Num: 33

Candidate Starts for MrGordo_46:

(Start: 33 @34805 has 208 MA's), (57, 34724), (65, 34703), (82, 34595), (88, 34571), (91, 34562), (108, 34403), (112, 34367),

Gene: Mryolo_45 Start: 34872, Stop: 34381, Start Num: 33

Candidate Starts for Mryolo_45:

(14, 34944), (20, 34905), (Start: 33 @34872 has 208 MA's), (57, 34791), (65, 34770), (76, 34701), (88, 34638), (91, 34629), (108, 34470), (112, 34434),

Gene: MuchMore_56 Start: 33848, Stop: 33258, Start Num: 24

Candidate Starts for MuchMore_56:

(Start: 24 @33848 has 227 MA's), (Start: 29 @33842 has 1 MA's), (60, 33698), (65, 33689), (73, 33662), (82, 33578), (105, 33374), (110, 33326),

Gene: Mulciber_50 Start: 32811, Stop: 32248, Start Num: 24
Candidate Starts for Mulciber_50:
(Start: 24 @32811 has 227 MA's), (62, 32682), (96, 32517), (105, 32361),

Gene: Mule_44 Start: 33043, Stop: 32564, Start Num: 33
Candidate Starts for Mule_44:
(14, 33115), (20, 33076), (Start: 33 @33043 has 208 MA's), (57, 32962), (65, 32941), (76, 32872), (82, 32833), (88, 32809), (91, 32800), (108, 32653), (112, 32617),

Gene: Munch_51 Start: 33271, Stop: 32702, Start Num: 24
Candidate Starts for Munch_51:
(Start: 24 @33271 has 227 MA's), (62, 33136), (96, 32971), (105, 32815),

Gene: Mundrea_48 Start: 33386, Stop: 32841, Start Num: 28
Candidate Starts for Mundrea_48:
(Start: 28 @33386 has 159 MA's), (66, 33239), (78, 33146), (92, 33089), (112, 32882),

Gene: Museum_48 Start: 35048, Stop: 34557, Start Num: 33
Candidate Starts for Museum_48:
(Start: 33 @35048 has 208 MA's), (57, 34967), (65, 34946), (76, 34877), (88, 34814), (91, 34805), (108, 34646), (112, 34610),

Gene: MyraDee_43 Start: 29930, Stop: 29361, Start Num: 24
Candidate Starts for MyraDee_43:
(Start: 24 @29930 has 227 MA's), (Start: 29 @29924 has 1 MA's), (76, 29705), (90, 29642), (92, 29633), (99, 29594), (105, 29465), (108, 29447),

Gene: Myxus_50 Start: 33634, Stop: 33104, Start Num: 19
Candidate Starts for Myxus_50:
(Start: 19 @33634 has 64 MA's), (Start: 24 @33619 has 227 MA's), (52, 33526), (62, 33502), (77, 33424), (92, 33361), (105, 33211),

Gene: NEHalo_45 Start: 34818, Stop: 34324, Start Num: 33
Candidate Starts for NEHalo_45:
(14, 34890), (20, 34851), (Start: 33 @34818 has 208 MA's), (57, 34737), (65, 34716), (82, 34608), (88, 34584), (91, 34575), (108, 34416), (112, 34380),

Gene: NaSiaTalie_50 Start: 33715, Stop: 33191, Start Num: 19
Candidate Starts for NaSiaTalie_50:
(Start: 19 @33715 has 64 MA's), (Start: 24 @33700 has 227 MA's), (49, 33631), (62, 33595), (72, 33568), (75, 33523), (77, 33517), (79, 33493), (82, 33481), (92, 33454), (94, 33445), (97, 33427), (105, 33304),

Gene: Naca_44 Start: 32823, Stop: 32299, Start Num: 32
Candidate Starts for Naca_44:
(Start: 32 @32823 has 38 MA's), (62, 32691), (65, 32685), (92, 32541),

Gene: Naiad_39 Start: 29811, Stop: 29287, Start Num: 31
Candidate Starts for Naiad_39:
(Start: 31 @29811 has 36 MA's), (60, 29706), (105, 29394), (107, 29385), (108, 29376), (110, 29346),

Gene: Naira_49 Start: 37425, Stop: 36931, Start Num: 33
Candidate Starts for Naira_49:

(Start: 33 @37425 has 208 MA's), (57, 37344), (65, 37323), (88, 37191), (91, 37182), (108, 37023), (112, 36987),

Gene: Naji_52 Start: 33469, Stop: 32891, Start Num: 24

Candidate Starts for Naji_52:

(Start: 19 @33484 has 64 MA's), (Start: 24 @33469 has 227 MA's), (60, 33352), (65, 33346), (72, 33322), (76, 33274), (97, 33175), (98, 33166), (101, 33157), (105, 33004),

Gene: Nancinator_39 Start: 29797, Stop: 29273, Start Num: 31

Candidate Starts for Nancinator_39:

(Start: 31 @29797 has 36 MA's), (60, 29692), (105, 29380), (107, 29371), (108, 29362), (110, 29332),

Gene: Natosaleda_39 Start: 29796, Stop: 29272, Start Num: 31

Candidate Starts for Natosaleda_39:

(Start: 31 @29796 has 36 MA's), (60, 29691), (105, 29379), (107, 29370), (108, 29361), (110, 29331),

Gene: NearlyHeadless_46 Start: 31699, Stop: 31181, Start Num: 34

Candidate Starts for NearlyHeadless_46:

(Start: 34 @31699 has 11 MA's), (62, 31582), (74, 31543), (78, 31483), (92, 31432), (93, 31426), (114, 31204),

Gene: Nebs_50 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Nebs_50:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Nebulosus_53 Start: 32530, Stop: 31988, Start Num: 36

Candidate Starts for Nebulosus_53:

(Start: 36 @32530 has 19 MA's), (37, 32524), (57, 32419), (67, 32392), (70, 32389), (84, 32278), (90, 32257), (92, 32248), (94, 32239), (105, 32092), (110, 32047),

Gene: Nedarya_49 Start: 31962, Stop: 31435, Start Num: 35

Candidate Starts for Nedarya_49:

(Start: 35 @31962 has 1 MA's), (46, 31896), (55, 31854), (57, 31848), (92, 31689), (105, 31542), (110, 31494),

Gene: Neeharika16_51 Start: 32238, Stop: 31666, Start Num: 24

Candidate Starts for Neeharika16_51:

(Start: 19 @32253 has 64 MA's), (Start: 24 @32238 has 227 MA's), (57, 32127), (65, 32109), (95, 31947), (101, 31920), (105, 31776), (106, 31773),

Gene: Nemo27_49 Start: 33387, Stop: 32848, Start Num: 28

Candidate Starts for Nemo27_49:

(Start: 13 @33444 has 1 MA's), (Start: 15 @33429 has 2 MA's), (Start: 28 @33387 has 159 MA's), (82, 33129), (92, 33096), (101, 33057), (112, 32889),

Gene: Nerujay_49 Start: 36116, Stop: 35637, Start Num: 33

Candidate Starts for Nerujay_49:

(Start: 33 @36116 has 208 MA's), (57, 36035), (65, 36014), (88, 35882), (91, 35873), (108, 35726), (112, 35690),

Gene: Newrala_52 Start: 32795, Stop: 32214, Start Num: 19

Candidate Starts for Newrala_52:

(Start: 19 @32795 has 64 MA's), (Start: 24 @32780 has 227 MA's), (57, 32669), (65, 32651), (95, 32489), (101, 32462), (105, 32324), (106, 32321),

Gene: Nhonho_48 Start: 35986, Stop: 35495, Start Num: 33

Candidate Starts for Nhonho_48:

(Start: 33 @35986 has 208 MA's), (57, 35905), (65, 35884), (88, 35752), (91, 35743), (108, 35584), (112, 35548),

Gene: NicoleTera_49 Start: 33986, Stop: 33456, Start Num: 24

Candidate Starts for NicoleTera_49:

(Start: 19 @34001 has 64 MA's), (Start: 24 @33986 has 227 MA's), (49, 33908), (62, 33872), (65, 33866), (72, 33845), (77, 33794), (82, 33758), (92, 33731), (105, 33569), (108, 33551),

Gene: Niza_50 Start: 36895, Stop: 36404, Start Num: 33

Candidate Starts for Niza_50:

(14, 36967), (20, 36928), (Start: 33 @36895 has 208 MA's), (57, 36814), (65, 36793), (88, 36661), (91, 36652), (108, 36493), (112, 36457),

Gene: Noella_49 Start: 33696, Stop: 33097, Start Num: 16

Candidate Starts for Noella_49:

(Start: 13 @33723 has 1 MA's), (Start: 15 @33708 has 2 MA's), (Start: 16 @33696 has 23 MA's), (Start: 27 @33666 has 7 MA's), (41, 33597), (65, 33519), (82, 33399), (112, 33138),

Gene: Noelle_49 Start: 33677, Stop: 33135, Start Num: 28

Candidate Starts for Noelle_49:

(Start: 13 @33734 has 1 MA's), (Start: 15 @33719 has 2 MA's), (Start: 28 @33677 has 159 MA's), (92, 33383), (101, 33344), (112, 33176),

Gene: Norbert_48 Start: 33695, Stop: 33096, Start Num: 16

Candidate Starts for Norbert_48:

(Start: 13 @33722 has 1 MA's), (Start: 15 @33707 has 2 MA's), (Start: 16 @33695 has 23 MA's), (Start: 27 @33665 has 7 MA's), (41, 33596), (65, 33518), (82, 33398), (112, 33137),

Gene: NorthStar_48 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for NorthStar_48:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Norz_47 Start: 35704, Stop: 35213, Start Num: 33

Candidate Starts for Norz_47:

(Start: 33 @35704 has 208 MA's), (Start: 35 @35698 has 1 MA's), (57, 35623), (65, 35602), (88, 35470), (91, 35461), (108, 35302), (112, 35266),

Gene: NotAPhaseMom_49 Start: 33392, Stop: 32853, Start Num: 28

Candidate Starts for NotAPhaseMom_49:

(Start: 13 @33449 has 1 MA's), (Start: 15 @33434 has 2 MA's), (Start: 28 @33392 has 159 MA's), (82, 33134), (92, 33101), (101, 33062), (112, 32894),

Gene: NothingSpecial_48 Start: 34231, Stop: 33707, Start Num: 19

Candidate Starts for NothingSpecial_48:

(Start: 19 @34231 has 64 MA's), (Start: 24 @34216 has 227 MA's), (72, 34084), (75, 34039), (77, 34033), (92, 33970), (105, 33817), (106, 33814),

Gene: Nyxis_49 Start: 33278, Stop: 32739, Start Num: 28

Candidate Starts for Nyxis_49:

(Start: 13 @33335 has 1 MA's), (Start: 15 @33320 has 2 MA's), (Start: 28 @33278 has 159 MA's), (82, 33020), (92, 32987), (101, 32948), (112, 32780),

Gene: OKCentral2016_47 Start: 32762, Stop: 32202, Start Num: 28

Candidate Starts for OKCentral2016_47:

(Start: 28 @32762 has 159 MA's), (41, 32690), (72, 32576), (73, 32573), (89, 32465), (92, 32456), (112, 32249),

Gene: OKaNui_49 Start: 33438, Stop: 32899, Start Num: 28

Candidate Starts for OKaNui_49:

(Start: 13 @33495 has 1 MA's), (Start: 15 @33480 has 2 MA's), (Start: 28 @33438 has 159 MA's), (82, 33180), (92, 33147), (101, 33108), (112, 32940),

Gene: Obama12_50 Start: 33809, Stop: 33273, Start Num: 28

Candidate Starts for Obama12_50:

(12, 33872), (Start: 28 @33809 has 159 MA's), (82, 33551), (92, 33518), (101, 33479), (112, 33314),

Gene: Odin_49 Start: 32519, Stop: 31926, Start Num: 24

Candidate Starts for Odin_49:

(Start: 19 @32534 has 64 MA's), (Start: 24 @32519 has 227 MA's), (60, 32375), (76, 32300), (101, 32183), (105, 32036), (106, 32033), (108, 32018), (110, 31991),

Gene: Ohfah_50 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Ohfah_50:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Ohno789_48 Start: 36219, Stop: 35725, Start Num: 33

Candidate Starts for Ohno789_48:

(Start: 33 @36219 has 208 MA's), (57, 36138), (65, 36117), (82, 36009), (88, 35985), (91, 35976), (108, 35817), (112, 35781),

Gene: OlanP_52 Start: 33922, Stop: 33329, Start Num: 24

Candidate Starts for OlanP_52:

(Start: 24 @33922 has 227 MA's), (Start: 29 @33916 has 1 MA's), (60, 33769), (65, 33760), (82, 33649), (105, 33445), (110, 33397),

Gene: Ollie_53 Start: 33727, Stop: 33137, Start Num: 24

Candidate Starts for Ollie_53:

(Start: 24 @33727 has 227 MA's), (Start: 29 @33721 has 1 MA's), (60, 33577), (65, 33568), (73, 33541), (82, 33457), (105, 33253), (110, 33205),

Gene: Onglai_48 Start: 31960, Stop: 31445, Start Num: 24

Candidate Starts for Onglai_48:

(Start: 19 @31975 has 64 MA's), (Start: 24 @31960 has 227 MA's), (52, 31867), (62, 31843), (77, 31765), (92, 31702), (105, 31552),

Gene: Oofda_55 Start: 32610, Stop: 32080, Start Num: 36

Candidate Starts for Oofda_55:

(Start: 36 @32610 has 19 MA's), (37, 32604), (46, 32544), (78, 32385), (82, 32367), (92, 32340), (105, 32184), (110, 32139),

Gene: Oogway_44 Start: 34350, Stop: 33859, Start Num: 33
Candidate Starts for Oogway_44:
(Start: 33 @34350 has 208 MA's), (57, 34269), (65, 34248), (88, 34116), (91, 34107), (108, 33948),
(112, 33912),

Gene: Orange_50 Start: 32820, Stop: 32251, Start Num: 24
Candidate Starts for Orange_50:
(Start: 24 @32820 has 227 MA's), (62, 32685), (96, 32520), (105, 32364),

Gene: P28Green_54 Start: 33859, Stop: 33269, Start Num: 24
Candidate Starts for P28Green_54:
(Start: 24 @33859 has 227 MA's), (Start: 29 @33853 has 1 MA's), (60, 33709), (65, 33700), (73,
33673), (82, 33589), (105, 33385), (110, 33337),

Gene: PGHhamlin_55 Start: 33848, Stop: 33258, Start Num: 24
Candidate Starts for PGHhamlin_55:
(Start: 24 @33848 has 227 MA's), (Start: 29 @33842 has 1 MA's), (60, 33698), (65, 33689), (73,
33662), (82, 33578), (105, 33374), (110, 33326),

Gene: PP_51 Start: 36962, Stop: 36378, Start Num: 28
Candidate Starts for PP_51:
(Start: 28 @36962 has 159 MA's), (59, 36830), (69, 36791), (76, 36722), (92, 36653), (106, 36479),

Gene: PSullivan_47 Start: 34862, Stop: 34371, Start Num: 33
Candidate Starts for PSullivan_47:
(14, 34934), (20, 34895), (Start: 33 @34862 has 208 MA's), (57, 34781), (65, 34760), (76, 34691), (88,
34628), (91, 34619), (108, 34460), (112, 34424),

Gene: PacerPaul_47 Start: 35606, Stop: 35115, Start Num: 33
Candidate Starts for PacerPaul_47:
(14, 35678), (20, 35639), (Start: 33 @35606 has 208 MA's), (57, 35525), (65, 35504), (76, 35435), (82,
35396), (88, 35372), (91, 35363), (108, 35204), (112, 35168),

Gene: PackMan_49 Start: 33634, Stop: 33104, Start Num: 19
Candidate Starts for PackMan_49:
(Start: 19 @33634 has 64 MA's), (Start: 24 @33619 has 227 MA's), (52, 33526), (62, 33502), (77,
33424), (92, 33361), (105, 33211),

Gene: PainterBoy_51 Start: 33419, Stop: 32871, Start Num: 24
Candidate Starts for PainterBoy_51:
(Start: 19 @33434 has 64 MA's), (Start: 24 @33419 has 227 MA's), (54, 33302), (75, 33200), (77,
33194), (92, 33131), (94, 33122), (105, 32978),

Gene: Palestino_48 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Palestino_48:
(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's),
(82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Panamaxus_47 Start: 33665, Stop: 33096, Start Num: 27
Candidate Starts for Panamaxus_47:
(Start: 13 @33722 has 1 MA's), (Start: 15 @33707 has 2 MA's), (Start: 16 @33695 has 23 MA's),
(Start: 27 @33665 has 7 MA's), (41, 33596), (65, 33518), (82, 33398), (112, 33137),

Gene: Papez_50 Start: 37983, Stop: 37492, Start Num: 33

Candidate Starts for Papez_50:

(Start: 33 @37983 has 208 MA's), (57, 37902), (65, 37881), (76, 37812), (82, 37773), (88, 37749), (91, 37740), (108, 37581), (112, 37545),

Gene: Paphu_45 Start: 35117, Stop: 34626, Start Num: 33

Candidate Starts for Paphu_45:

(Start: 33 @35117 has 208 MA's), (57, 35036), (65, 35015), (76, 34946), (88, 34883), (91, 34874), (108, 34715), (112, 34679),

Gene: Paraselene_45 Start: 35484, Stop: 34990, Start Num: 33

Candidate Starts for Paraselene_45:

(14, 35556), (20, 35517), (Start: 33 @35484 has 208 MA's), (57, 35403), (65, 35382), (76, 35313), (88, 35250), (91, 35241), (108, 35082), (112, 35046),

Gene: Pari_48 Start: 35131, Stop: 34640, Start Num: 33

Candidate Starts for Pari_48:

(Start: 33 @35131 has 208 MA's), (57, 35050), (65, 35029), (88, 34897), (91, 34888), (108, 34729), (112, 34693),

Gene: Parliament_46 Start: 35665, Stop: 35174, Start Num: 33

Candidate Starts for Parliament_46:

(Start: 33 @35665 has 208 MA's), (Start: 35 @35659 has 1 MA's), (57, 35584), (65, 35563), (88, 35431), (91, 35422), (102, 35371), (108, 35263), (112, 35227),

Gene: Partridge_39 Start: 29958, Stop: 29434, Start Num: 31

Candidate Starts for Partridge_39:

(Start: 31 @29958 has 36 MA's), (60, 29853), (105, 29541), (107, 29532), (108, 29523), (110, 29493),

Gene: PascalRango_48 Start: 35376, Stop: 34882, Start Num: 33

Candidate Starts for PascalRango_48:

(Start: 33 @35376 has 208 MA's), (57, 35295), (65, 35274), (76, 35205), (88, 35142), (91, 35133), (108, 34974), (112, 34938),

Gene: PattyP_48 Start: 35244, Stop: 34753, Start Num: 33

Candidate Starts for PattyP_48:

(14, 35316), (20, 35277), (Start: 33 @35244 has 208 MA's), (57, 35163), (65, 35142), (76, 35073), (88, 35010), (91, 35001), (108, 34842), (112, 34806),

Gene: Pawn_53 Start: 33753, Stop: 33163, Start Num: 24

Candidate Starts for Pawn_53:

(Start: 24 @33753 has 227 MA's), (Start: 29 @33747 has 1 MA's), (60, 33603), (65, 33594), (73, 33567), (82, 33483), (105, 33279), (110, 33231),

Gene: Payneful_46 Start: 34685, Stop: 34206, Start Num: 33

Candidate Starts for Payneful_46:

(Start: 33 @34685 has 208 MA's), (Start: 35 @34679 has 1 MA's), (57, 34604), (65, 34583), (76, 34514), (88, 34451), (91, 34442), (108, 34295), (112, 34259),

Gene: PeaceMeal1_46 Start: 32314, Stop: 31766, Start Num: 28

Candidate Starts for PeaceMeal1_46:

(Start: 28 @32314 has 159 MA's), (41, 32245), (66, 32161), (68, 32158), (72, 32140), (73, 32137), (82, 32053), (92, 32020), (112, 31813),

Gene: Peaches_49 Start: 33387, Stop: 32848, Start Num: 28

Candidate Starts for Peaches_49:

(Start: 13 @33444 has 1 MA's), (Start: 15 @33429 has 2 MA's), (Start: 28 @33387 has 159 MA's), (82, 33129), (92, 33096), (101, 33057), (112, 32889),

Gene: Pelly_46 Start: 35645, Stop: 35154, Start Num: 33

Candidate Starts for Pelly_46:

(Start: 33 @35645 has 208 MA's), (57, 35564), (65, 35543), (88, 35411), (91, 35402), (108, 35243), (112, 35207),

Gene: Pembroke_53 Start: 33857, Stop: 33267, Start Num: 24

Candidate Starts for Pembroke_53:

(Start: 24 @33857 has 227 MA's), (Start: 29 @33851 has 1 MA's), (60, 33707), (65, 33698), (73, 33671), (82, 33587), (105, 33383), (110, 33335),

Gene: Penny1_54 Start: 33860, Stop: 33270, Start Num: 24

Candidate Starts for Penny1_54:

(Start: 24 @33860 has 227 MA's), (Start: 29 @33854 has 1 MA's), (60, 33710), (65, 33701), (73, 33674), (82, 33590), (105, 33386), (110, 33338),

Gene: Pepe_44 Start: 33805, Stop: 33314, Start Num: 33

Candidate Starts for Pepe_44:

(14, 33877), (20, 33838), (Start: 33 @33805 has 208 MA's), (57, 33724), (65, 33703), (76, 33634), (88, 33571), (91, 33562), (108, 33403), (112, 33367),

Gene: Perplexer_48 Start: 33361, Stop: 32822, Start Num: 28

Candidate Starts for Perplexer_48:

(Start: 13 @33418 has 1 MA's), (Start: 15 @33403 has 2 MA's), (Start: 28 @33361 has 159 MA's), (82, 33103), (92, 33070), (101, 33031), (112, 32863),

Gene: Perseus_47 Start: 35929, Stop: 35450, Start Num: 33

Candidate Starts for Perseus_47:

(14, 36001), (20, 35962), (Start: 33 @35929 has 208 MA's), (57, 35848), (65, 35827), (76, 35758), (82, 35719), (88, 35695), (91, 35686), (108, 35539), (112, 35503),

Gene: PeterPeter_49 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for PeterPeter_49:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: Petersenfast_49 Start: 32822, Stop: 32253, Start Num: 24

Candidate Starts for Petersenfast_49:

(Start: 24 @32822 has 227 MA's), (62, 32687), (96, 32522), (105, 32366),

Gene: Peterson_50 Start: 37831, Stop: 37337, Start Num: 33

Candidate Starts for Peterson_50:

(Start: 33 @37831 has 208 MA's), (57, 37750), (65, 37729), (76, 37660), (88, 37597), (91, 37588), (108, 37429), (112, 37393),

Gene: PetiteSangue_48 Start: 33364, Stop: 32825, Start Num: 28

Candidate Starts for PetiteSangsue_48:

(Start: 13 @33421 has 1 MA's), (Start: 15 @33406 has 2 MA's), (Start: 28 @33364 has 159 MA's), (82, 33106), (92, 33073), (101, 33034), (112, 32866),

Gene: Petp2012_48 Start: 35856, Stop: 35365, Start Num: 33

Candidate Starts for Petp2012_48:

(Start: 33 @35856 has 208 MA's), (57, 35775), (65, 35754), (76, 35685), (88, 35622), (91, 35613), (108, 35454), (112, 35418),

Gene: Petruccio_47 Start: 35590, Stop: 35099, Start Num: 33

Candidate Starts for Petruccio_47:

(14, 35662), (20, 35623), (Start: 33 @35590 has 208 MA's), (57, 35509), (65, 35488), (76, 35419), (82, 35380), (88, 35356), (91, 35347), (108, 35188), (112, 35152),

Gene: PetterN_46 Start: 32243, Stop: 31719, Start Num: 32

Candidate Starts for PetterN_46:

(Start: 32 @32243 has 38 MA's), (62, 32111), (65, 32105), (92, 31961),

Gene: Ph8s_52 Start: 33102, Stop: 32488, Start Num: 19

Candidate Starts for Ph8s_52:

(Start: 19 @33102 has 64 MA's), (Start: 24 @33087 has 227 MA's), (60, 32934), (76, 32859), (81, 32826), (101, 32742), (103, 32721), (105, 32598), (106, 32595), (110, 32553),

Gene: Phacado_49 Start: 33387, Stop: 32848, Start Num: 28

Candidate Starts for Phacado_49:

(Start: 13 @33444 has 1 MA's), (Start: 15 @33429 has 2 MA's), (Start: 28 @33387 has 159 MA's), (82, 33129), (92, 33096), (101, 33057), (112, 32889),

Gene: Phaded_51 Start: 34886, Stop: 34329, Start Num: 19

Candidate Starts for Phaded_51:

(Start: 19 @34886 has 64 MA's), (Start: 24 @34871 has 227 MA's), (47, 34793), (74, 34736), (76, 34694), (87, 34637), (91, 34625), (95, 34604), (101, 34577), (105, 34436), (108, 34418),

Gene: Phaeder_50 Start: 33619, Stop: 33104, Start Num: 24

Candidate Starts for Phaeder_50:

(Start: 19 @33634 has 64 MA's), (Start: 24 @33619 has 227 MA's), (52, 33526), (62, 33502), (77, 33424), (92, 33361), (105, 33211),

Gene: PhailMary_38 Start: 30120, Stop: 29596, Start Num: 31

Candidate Starts for PhailMary_38:

(Start: 31 @30120 has 36 MA's), (60, 30015), (105, 29703), (107, 29694), (108, 29685), (110, 29655),

Gene: Phantastic_51 Start: 33380, Stop: 32778, Start Num: 16

Candidate Starts for Phantastic_51:

(Start: 13 @33407 has 1 MA's), (Start: 15 @33392 has 2 MA's), (Start: 16 @33380 has 23 MA's), (Start: 28 @33350 has 159 MA's), (41, 33281), (65, 33203), (73, 33167), (82, 33083), (112, 32819),

Gene: Pharaoh_45 Start: 33439, Stop: 32915, Start Num: 24

Candidate Starts for Pharaoh_45:

(Start: 24 @33439 has 227 MA's), (77, 33241), (92, 33178), (105, 33016),

Gene: Phelipe_50 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Phelipe_50:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: PherrisBueller_47 Start: 34859, Stop: 34356, Start Num: 33

Candidate Starts for PherrisBueller_47:

(14, 34931), (20, 34892), (Start: 33 @34859 has 208 MA's), (57, 34778), (65, 34757), (82, 34649), (88, 34625), (91, 34616), (108, 34448), (112, 34412),

Gene: Phighter1804_49 Start: 33451, Stop: 32915, Start Num: 28

Candidate Starts for Phighter1804_49:

(Start: 28 @33451 has 159 MA's), (82, 33193), (92, 33160), (101, 33121), (112, 32956),

Gene: Phillis_48 Start: 32245, Stop: 31724, Start Num: 34

Candidate Starts for Phillis_48:

(Start: 34 @32245 has 11 MA's), (62, 32128), (78, 32029), (92, 31978), (93, 31972), (114, 31747),

Gene: PhishRPhriends_51 Start: 32930, Stop: 32337, Start Num: 24

Candidate Starts for PhishRPhriends_51:

(Start: 24 @32930 has 227 MA's), (Start: 29 @32924 has 1 MA's), (60, 32777), (65, 32768), (73, 32741), (82, 32657), (105, 32453), (110, 32405),

Gene: Phlei_39 Start: 33153, Stop: 32638, Start Num: 34

Candidate Starts for Phlei_39:

(22, 33195), (Start: 28 @33180 has 159 MA's), (Start: 34 @33153 has 11 MA's), (38, 33132), (52, 33078), (62, 33045), (64, 33042), (72, 33021), (78, 32955), (87, 32922), (88, 32919), (92, 32907), (93, 32901), (104, 32832), (105, 32751), (110, 32703),

Gene: Phlorence_41 Start: 32083, Stop: 31556, Start Num: 32

Candidate Starts for Phlorence_41:

(Start: 32 @32083 has 38 MA's), (62, 31948), (65, 31942), (92, 31798), (114, 31579),

Gene: Phoebe_54 Start: 33849, Stop: 33259, Start Num: 24

Candidate Starts for Phoebe_54:

(Start: 24 @33849 has 227 MA's), (Start: 29 @33843 has 1 MA's), (60, 33699), (65, 33690), (73, 33663), (82, 33579), (105, 33375), (110, 33327),

Gene: Phonnegut_50 Start: 33716, Stop: 33153, Start Num: 24

Candidate Starts for Phonnegut_50:

(Start: 19 @33731 has 64 MA's), (Start: 24 @33716 has 227 MA's), (66, 33590), (78, 33500), (101, 33401), (105, 33260),

Gene: Phontbonne_49 Start: 33279, Stop: 32740, Start Num: 28

Candidate Starts for Phontbonne_49:

(Start: 13 @33336 has 1 MA's), (Start: 15 @33321 has 2 MA's), (Start: 28 @33279 has 159 MA's), (82, 33021), (92, 32988), (101, 32949), (112, 32781),

Gene: Phoxy_53 Start: 33881, Stop: 33294, Start Num: 24

Candidate Starts for Phoxy_53:

(Start: 24 @33881 has 227 MA's), (Start: 29 @33875 has 1 MA's), (60, 33737), (65, 33728), (73, 33701), (74, 33698), (78, 33638), (82, 33617), (105, 33410), (110, 33362),

Gene: Phrankenstein_39 Start: 29744, Stop: 29220, Start Num: 31

Candidate Starts for Phrankenstein_39:

(Start: 31 @29744 has 36 MA's), (60, 29639), (105, 29327), (107, 29318), (108, 29309), (110, 29279),

Gene: Phranny_54 Start: 33735, Stop: 33145, Start Num: 24

Candidate Starts for Phranny_54:

(Start: 24 @33735 has 227 MA's), (Start: 29 @33729 has 1 MA's), (60, 33585), (65, 33576), (73, 33549), (82, 33465), (105, 33261), (110, 33213),

Gene: PhrostyMug_46 Start: 35208, Stop: 34729, Start Num: 33

Candidate Starts for PhrostyMug_46:

(14, 35280), (20, 35241), (Start: 33 @35208 has 208 MA's), (57, 35127), (65, 35106), (76, 35037), (82, 34998), (88, 34974), (91, 34965), (108, 34818), (112, 34782),

Gene: PickleBack_42 Start: 32212, Stop: 31688, Start Num: 32

Candidate Starts for PickleBack_42:

(Start: 32 @32212 has 38 MA's), (62, 32080), (65, 32074), (92, 31930), (114, 31711),

Gene: PinkPlastic_46 Start: 35066, Stop: 34575, Start Num: 33

Candidate Starts for PinkPlastic_46:

(Start: 33 @35066 has 208 MA's), (57, 34985), (65, 34964), (88, 34832), (91, 34823), (102, 34772), (108, 34664), (112, 34628),

Gene: Pinto_47 Start: 35047, Stop: 34556, Start Num: 33

Candidate Starts for Pinto_47:

(14, 35119), (20, 35080), (Start: 33 @35047 has 208 MA's), (57, 34966), (65, 34945), (82, 34837), (88, 34813), (91, 34804), (108, 34645), (112, 34609),

Gene: Pioneer_50 Start: 33716, Stop: 33153, Start Num: 24

Candidate Starts for Pioneer_50:

(Start: 19 @33731 has 64 MA's), (Start: 24 @33716 has 227 MA's), (66, 33590), (78, 33500), (101, 33401), (105, 33260),

Gene: Pipcraft_47 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Pipcraft_47:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Pippin_49 Start: 35957, Stop: 35466, Start Num: 33

Candidate Starts for Pippin_49:

(14, 36029), (20, 35990), (Start: 33 @35957 has 208 MA's), (57, 35876), (65, 35855), (88, 35723), (91, 35714), (108, 35555), (112, 35519),

Gene: Piro94_50 Start: 34062, Stop: 33535, Start Num: 19

Candidate Starts for Piro94_50:

(Start: 19 @34062 has 64 MA's), (Start: 24 @34047 has 227 MA's), (49, 33978), (62, 33942), (72, 33915), (77, 33864), (79, 33840), (82, 33828), (92, 33801), (94, 33792), (97, 33774), (105, 33648),

Gene: Pistachio_52 Start: 33268, Stop: 32705, Start Num: 27

Candidate Starts for Pistachio_52:

(Start: 13 @33325 has 1 MA's), (Start: 15 @33310 has 2 MA's), (Start: 16 @33298 has 23 MA's), (Start: 27 @33268 has 7 MA's), (41, 33199), (65, 33121), (73, 33085), (82, 33001), (112, 32746),

Gene: Pita2_50 Start: 36359, Stop: 35868, Start Num: 33

Candidate Starts for Pita2_50:

(14, 36431), (20, 36392), (Start: 33 @36359 has 208 MA's), (57, 36278), (65, 36257), (76, 36188), (88, 36125), (91, 36116), (108, 35957), (112, 35921),

Gene: Pmask_52 Start: 32781, Stop: 32215, Start Num: 24

Candidate Starts for Pmask_52:

(Start: 19 @32796 has 64 MA's), (Start: 24 @32781 has 227 MA's), (57, 32670), (65, 32652), (95, 32490), (101, 32463), (105, 32325), (106, 32322),

Gene: Pocahontas_49 Start: 33692, Stop: 33093, Start Num: 16

Candidate Starts for Pocahontas_49:

(Start: 13 @33719 has 1 MA's), (Start: 15 @33704 has 2 MA's), (Start: 16 @33692 has 23 MA's), (Start: 27 @33662 has 7 MA's), (41, 33593), (65, 33515), (82, 33395), (112, 33134),

Gene: Polymorphads_50 Start: 33381, Stop: 32842, Start Num: 28

Candidate Starts for Polymorphads_50:

(Start: 13 @33438 has 1 MA's), (Start: 15 @33423 has 2 MA's), (Start: 28 @33381 has 159 MA's), (82, 33123), (92, 33090), (101, 33051), (112, 32883),

Gene: Pomar16_52 Start: 33509, Stop: 32931, Start Num: 24

Candidate Starts for Pomar16_52:

(Start: 19 @33524 has 64 MA's), (Start: 24 @33509 has 227 MA's), (60, 33392), (65, 33386), (72, 33362), (76, 33314), (97, 33215), (98, 33206), (101, 33197), (105, 33044),

Gene: Ponzi_21 Start: 11722, Stop: 11192, Start Num: 42

Candidate Starts for Ponzi_21:

(Start: 42 @11722 has 1 MA's), (61, 11644), (77, 11551),

Gene: Poompha_47 Start: 32312, Stop: 31764, Start Num: 28

Candidate Starts for Poompha_47:

(Start: 28 @32312 has 159 MA's), (41, 32243), (66, 32159), (68, 32156), (72, 32138), (73, 32135), (82, 32051), (92, 32018), (112, 31811),

Gene: Popcicle_49 Start: 33662, Stop: 33093, Start Num: 27

Candidate Starts for Popcicle_49:

(Start: 13 @33719 has 1 MA's), (Start: 15 @33704 has 2 MA's), (Start: 16 @33692 has 23 MA's), (Start: 27 @33662 has 7 MA's), (41, 33593), (65, 33515), (82, 33395), (112, 33134),

Gene: PotatoSplit_55 Start: 33860, Stop: 33270, Start Num: 24

Candidate Starts for PotatoSplit_55:

(Start: 24 @33860 has 227 MA's), (Start: 29 @33854 has 1 MA's), (60, 33710), (65, 33701), (73, 33674), (82, 33590), (105, 33386), (110, 33338),

Gene: Power_49 Start: 33684, Stop: 33163, Start Num: 24

Candidate Starts for Power_49:

(Start: 19 @33699 has 64 MA's), (Start: 24 @33684 has 227 MA's), (62, 33570), (72, 33543), (75, 33498), (77, 33492), (79, 33468), (92, 33429), (94, 33420), (105, 33273), (108, 33255), (110, 33225),

Gene: Priamo_54 Start: 32522, Stop: 31971, Start Num: 24

Candidate Starts for Priamo_54:

(Start: 18 @32537 has 1 MA's), (Start: 24 @32522 has 227 MA's), (76, 32312), (77, 32309), (92, 32246), (94, 32237), (105, 32081), (106, 32078),

Gene: Priya_50 Start: 33686, Stop: 33171, Start Num: 24

Candidate Starts for Priya_50:

(Start: 19 @33701 has 64 MA's), (Start: 24 @33686 has 227 MA's), (52, 33593), (62, 33569), (77, 33491), (92, 33428), (105, 33278),

Gene: ProMouse_48 Start: 36067, Stop: 35576, Start Num: 33

Candidate Starts for ProMouse_48:

(Start: 33 @36067 has 208 MA's), (57, 35986), (65, 35965), (88, 35833), (91, 35824), (108, 35665), (112, 35629),

Gene: Pukovnik_49 Start: 34501, Stop: 33938, Start Num: 19

Candidate Starts for Pukovnik_49:

(Start: 19 @34501 has 64 MA's), (Start: 24 @34486 has 227 MA's), (74, 34354), (76, 34312), (87, 34255), (95, 34222), (101, 34195), (105, 34045), (108, 34027),

Gene: Pumbaa_49 Start: 33333, Stop: 32794, Start Num: 28

Candidate Starts for Pumbaa_49:

(Start: 13 @33390 has 1 MA's), (Start: 15 @33375 has 2 MA's), (Start: 28 @33333 has 159 MA's), (82, 33075), (92, 33042), (101, 33003), (112, 32835),

Gene: Puppy_52 Start: 33370, Stop: 32777, Start Num: 16

Candidate Starts for Puppy_52:

(Start: 13 @33397 has 1 MA's), (Start: 15 @33382 has 2 MA's), (Start: 16 @33370 has 23 MA's), (Start: 27 @33340 has 7 MA's), (41, 33271), (65, 33193), (73, 33157), (82, 33073), (112, 32818),

Gene: PurpleHaze_53 Start: 33748, Stop: 33158, Start Num: 24

Candidate Starts for PurpleHaze_53:

(Start: 24 @33748 has 227 MA's), (Start: 29 @33742 has 1 MA's), (60, 33598), (65, 33589), (73, 33562), (82, 33478), (105, 33274), (110, 33226),

Gene: QTRlifeCrisis_47 Start: 36055, Stop: 35564, Start Num: 33

Candidate Starts for QTRlifeCrisis_47:

(14, 36127), (20, 36088), (Start: 33 @36055 has 208 MA's), (57, 35974), (65, 35953), (82, 35845), (88, 35821), (91, 35812), (108, 35653), (112, 35617),

Gene: Qobbit_50 Start: 33648, Stop: 33133, Start Num: 24

Candidate Starts for Qobbit_50:

(Start: 19 @33663 has 64 MA's), (Start: 24 @33648 has 227 MA's), (52, 33555), (62, 33531), (77, 33453), (92, 33390), (105, 33240),

Gene: QueenB2_49 Start: 33638, Stop: 33120, Start Num: 24

Candidate Starts for QueenB2_49:

(Start: 19 @33653 has 64 MA's), (Start: 24 @33638 has 227 MA's), (62, 33524), (72, 33497), (77, 33446), (79, 33422), (92, 33383), (94, 33374), (105, 33230), (108, 33212), (110, 33182),

Gene: QueenBeesly_50 Start: 33631, Stop: 33110, Start Num: 24

Candidate Starts for QueenBeesly_50:

(Start: 19 @33646 has 64 MA's), (Start: 24 @33631 has 227 MA's), (62, 33517), (72, 33490), (75, 33445), (77, 33439), (79, 33415), (92, 33376), (94, 33367), (105, 33220), (108, 33202), (110, 33172),

Gene: QuinnKiro_48 Start: 33695, Stop: 33096, Start Num: 16

Candidate Starts for QuinnKiro_48:

(Start: 13 @33722 has 1 MA's), (Start: 15 @33707 has 2 MA's), (Start: 16 @33695 has 23 MA's), (Start: 27 @33665 has 7 MA's), (41, 33596), (65, 33518), (82, 33398), (112, 33137),

Gene: Quokka_48 Start: 32541, Stop: 32137, Start Num: 62

Candidate Starts for Quokka_48:

(Start: 24 @32652 has 227 MA's), (49, 32574), (62, 32541), (77, 32463), (79, 32439), (92, 32400), (105, 32247),

Gene: RER2_32 Start: 26670, Stop: 26146, Start Num: 31

Candidate Starts for RER2_32:

(Start: 31 @26670 has 36 MA's), (60, 26565), (105, 26253), (107, 26244), (108, 26235), (110, 26205),

Gene: RGL3_34 Start: 27554, Stop: 27051, Start Num: 31

Candidate Starts for RGL3_34:

(21, 27584), (Start: 31 @27554 has 36 MA's), (59, 27464), (105, 27158), (107, 27149), (110, 27110),

Gene: Rachaly_49 Start: 33948, Stop: 33430, Start Num: 24

Candidate Starts for Rachaly_49:

(17, 33975), (Start: 19 @33963 has 64 MA's), (Start: 24 @33948 has 227 MA's), (49, 33876), (62, 33840), (65, 33834), (72, 33813), (77, 33762), (79, 33738), (82, 33726), (92, 33699), (105, 33540), (108, 33522), (110, 33492),

Gene: Rahalelujah_50 Start: 33197, Stop: 32670, Start Num: 24

Candidate Starts for Rahalelujah_50:

(Start: 19 @33212 has 64 MA's), (Start: 24 @33197 has 227 MA's), (54, 33098), (62, 33074), (77, 32996), (79, 32972), (92, 32933), (105, 32777),

Gene: Rajelicia_48 Start: 35989, Stop: 35498, Start Num: 33

Candidate Starts for Rajelicia_48:

(14, 36061), (20, 36022), (Start: 33 @35989 has 208 MA's), (57, 35908), (65, 35887), (76, 35818), (88, 35755), (91, 35746), (108, 35587), (112, 35551),

Gene: Rasputin_39 Start: 29768, Stop: 29244, Start Num: 31

Candidate Starts for Rasputin_39:

(Start: 31 @29768 has 36 MA's), (60, 29663), (105, 29351), (107, 29342), (108, 29333), (110, 29303),

Gene: ReMo_53 Start: 32531, Stop: 31989, Start Num: 36

Candidate Starts for ReMo_53:

(Start: 36 @32531 has 19 MA's), (37, 32525), (57, 32420), (67, 32393), (70, 32390), (84, 32279), (90, 32258), (92, 32249), (94, 32240), (105, 32093), (110, 32048),

Gene: Reba_53 Start: 33408, Stop: 32818, Start Num: 24

Candidate Starts for Reba_53:

(Start: 24 @33408 has 227 MA's), (Start: 29 @33402 has 1 MA's), (60, 33258), (65, 33249), (73, 33222), (82, 33138), (105, 32934), (110, 32886),

Gene: Rebeuca_48 Start: 33414, Stop: 32863, Start Num: 28

Candidate Starts for Rebeuca_48:

(Start: 28 @33414 has 159 MA's), (41, 33345), (73, 33234), (82, 33150), (89, 33126), (92, 33117), (94, 33108), (112, 32910),

Gene: RedRock_52 Start: 34849, Stop: 34322, Start Num: 24

Candidate Starts for RedRock_52:

(Start: 19 @34864 has 64 MA's), (Start: 24 @34849 has 227 MA's), (62, 34735), (72, 34708), (75, 34663), (77, 34657), (79, 34633), (92, 34594), (105, 34435), (108, 34417), (110, 34387),

Gene: Refuge_49 Start: 34874, Stop: 34341, Start Num: 19

Candidate Starts for Refuge_49:

(Start: 19 @34874 has 64 MA's), (Start: 24 @34859 has 227 MA's), (45, 34790), (65, 34748), (82, 34637), (105, 34442), (106, 34439),

Gene: Relief_48 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for Relief_48:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: Remus_54 Start: 32444, Stop: 31914, Start Num: 36

Candidate Starts for Remus_54:

(Start: 36 @32444 has 19 MA's), (37, 32438), (46, 32378), (78, 32219), (82, 32201), (92, 32174), (105, 32018), (110, 31973),

Gene: ResDef_49 Start: 33695, Stop: 33096, Start Num: 16

Candidate Starts for ResDef_49:

(Start: 13 @33722 has 1 MA's), (Start: 15 @33707 has 2 MA's), (Start: 16 @33695 has 23 MA's), (Start: 27 @33665 has 7 MA's), (41, 33596), (65, 33518), (82, 33398), (112, 33137),

Gene: Retro23_51 Start: 34038, Stop: 33517, Start Num: 24

Candidate Starts for Retro23_51:

(Start: 19 @34053 has 64 MA's), (Start: 24 @34038 has 227 MA's), (62, 33924), (72, 33897), (77, 33846), (79, 33822), (92, 33783), (94, 33774), (105, 33627), (108, 33609), (110, 33579),

Gene: RexFury_39 Start: 29829, Stop: 29305, Start Num: 31

Candidate Starts for RexFury_39:

(Start: 31 @29829 has 36 MA's), (60, 29724), (105, 29412), (107, 29403), (108, 29394), (110, 29364),

Gene: Rhodalysa_39 Start: 29798, Stop: 29274, Start Num: 31

Candidate Starts for Rhodalysa_39:

(Start: 31 @29798 has 36 MA's), (60, 29693), (105, 29381), (107, 29372), (108, 29363), (110, 29333),

Gene: RhynO_49 Start: 33216, Stop: 32662, Start Num: 28

Candidate Starts for RhynO_49:

(Start: 28 @33216 has 159 MA's), (41, 33147), (70, 33054), (73, 33033), (82, 32949), (89, 32925), (92, 32916), (94, 32907), (112, 32709),

Gene: Rhynn_46 Start: 35290, Stop: 34811, Start Num: 33

Candidate Starts for Rhynn_46:

(14, 35362), (20, 35323), (Start: 33 @35290 has 208 MA's), (57, 35209), (65, 35188), (76, 35119), (88, 35056), (91, 35047), (108, 34900), (112, 34864),

Gene: RidgeCB_47 Start: 35205, Stop: 34714, Start Num: 33

Candidate Starts for RidgeCB_47:

(14, 35277), (20, 35238), (Start: 33 @35205 has 208 MA's), (57, 35124), (65, 35103), (76, 35034), (88, 34971), (91, 34962), (108, 34803), (112, 34767),

Gene: Rifter_53 Start: 32329, Stop: 31766, Start Num: 18

Candidate Starts for Rifter_53:

(Start: 18 @32329 has 1 MA's), (Start: 24 @32314 has 227 MA's), (76, 32104), (77, 32101), (92, 32038), (94, 32029), (105, 31876), (106, 31873),

Gene: Ringer_48 Start: 36321, Stop: 35830, Start Num: 33

Candidate Starts for Ringer_48:

(14, 36393), (20, 36354), (Start: 33 @36321 has 208 MA's), (57, 36240), (65, 36219), (88, 36087), (91, 36078), (108, 35919), (112, 35883),

Gene: Roary_47 Start: 31912, Stop: 31391, Start Num: 34

Candidate Starts for Roary_47:

(Start: 34 @31912 has 11 MA's), (62, 31795), (78, 31696), (92, 31645), (93, 31639), (114, 31414),

Gene: Rockstar_50 Start: 33188, Stop: 32583, Start Num: 16

Candidate Starts for Rockstar_50:

(Start: 13 @33215 has 1 MA's), (Start: 15 @33200 has 2 MA's), (Start: 16 @33188 has 23 MA's), (Start: 28 @33158 has 159 MA's), (41, 33086), (65, 33008), (72, 32975), (73, 32972), (82, 32888), (94, 32843), (106, 32675), (112, 32624),

Gene: Rohr_48 Start: 36009, Stop: 35518, Start Num: 33

Candidate Starts for Rohr_48:

(14, 36081), (20, 36042), (Start: 33 @36009 has 208 MA's), (57, 35928), (65, 35907), (76, 35838), (88, 35775), (91, 35766), (108, 35607), (112, 35571),

Gene: Roksolana_53 Start: 32814, Stop: 32257, Start Num: 24

Candidate Starts for Roksolana_53:

(Start: 1 @33012 has 4 MA's), (2, 32997), (3, 32976), (4, 32946), (5, 32940), (Start: 24 @32814 has 227 MA's), (76, 32604), (77, 32601), (92, 32538), (94, 32529), (105, 32367), (106, 32364),

Gene: Romney_49 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for Romney_49:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: Roosevelt_48 Start: 33390, Stop: 32851, Start Num: 28

Candidate Starts for Roosevelt_48:

(Start: 13 @33447 has 1 MA's), (Start: 15 @33432 has 2 MA's), (Start: 28 @33390 has 159 MA's), (82, 33132), (92, 33099), (101, 33060), (112, 32892),

Gene: Rosa24_48 Start: 33416, Stop: 32880, Start Num: 28

Candidate Starts for Rosa24_48:

(Start: 13 @33473 has 1 MA's), (Start: 15 @33458 has 2 MA's), (Start: 28 @33416 has 159 MA's), (82, 33158), (92, 33125), (101, 33086), (112, 32921),

Gene: Rosalind_53 Start: 32742, Stop: 32176, Start Num: 36

Candidate Starts for Rosalind_53:

(Start: 36 @32742 has 19 MA's), (37, 32736), (57, 32631), (67, 32604), (70, 32601), (84, 32490), (90, 32469), (92, 32460), (94, 32451), (112, 32232),

Gene: Rowdy_52 Start: 33124, Stop: 32570, Start Num: 28

Candidate Starts for Rowdy_52:

(Start: 28 @33124 has 159 MA's), (41, 33055), (70, 32962), (73, 32941), (82, 32857), (89, 32833), (92, 32824), (94, 32815), (112, 32617),

Gene: Rubeus_47 Start: 33866, Stop: 33372, Start Num: 33

Candidate Starts for Rubeus_47:

(14, 33938), (20, 33899), (Start: 33 @33866 has 208 MA's), (57, 33785), (65, 33764), (76, 33695), (82, 33656), (88, 33632), (91, 33623), (108, 33461), (112, 33425),

Gene: Rufus_48 Start: 35636, Stop: 35142, Start Num: 33

Candidate Starts for Rufus_48:

(14, 35708), (20, 35669), (Start: 33 @35636 has 208 MA's), (57, 35555), (65, 35534), (76, 35465), (82, 35426), (88, 35402), (91, 35393), (108, 35231), (112, 35195),

Gene: Ruin_49 Start: 33381, Stop: 32842, Start Num: 28

Candidate Starts for Ruin_49:

(Start: 13 @33438 has 1 MA's), (Start: 15 @33423 has 2 MA's), (Start: 28 @33381 has 159 MA's), (82, 33123), (92, 33090), (101, 33051), (112, 32883),

Gene: Rummer_52 Start: 33884, Stop: 33297, Start Num: 24

Candidate Starts for Rummer_52:

(Start: 24 @33884 has 227 MA's), (Start: 29 @33878 has 1 MA's), (60, 33740), (65, 33731), (73, 33704), (74, 33701), (78, 33641), (82, 33620), (105, 33413), (110, 33365),

Gene: Ruotula_50 Start: 37126, Stop: 36635, Start Num: 33

Candidate Starts for Ruotula_50:

(14, 37198), (20, 37159), (Start: 33 @37126 has 208 MA's), (57, 37045), (65, 37024), (76, 36955), (82, 36916), (88, 36892), (91, 36883), (108, 36724), (112, 36688),

Gene: Rutherferd_49 Start: 36503, Stop: 36024, Start Num: 33

Candidate Starts for Rutherferd_49:

(Start: 33 @36503 has 208 MA's), (57, 36422), (65, 36401), (76, 36332), (88, 36269), (91, 36260), (108, 36113), (112, 36077),

Gene: RyeScarlet_51 Start: 33691, Stop: 33128, Start Num: 24

Candidate Starts for RyeScarlet_51:

(Start: 19 @33706 has 64 MA's), (Start: 24 @33691 has 227 MA's), (66, 33565), (78, 33475), (101, 33376), (105, 33235),

Gene: STLscum_48 Start: 36506, Stop: 36015, Start Num: 33

Candidate Starts for STLscum_48:

(Start: 33 @36506 has 208 MA's), (57, 36425), (65, 36404), (88, 36272), (91, 36263), (108, 36104), (112, 36068),

Gene: Sabertooth_49 Start: 33390, Stop: 32851, Start Num: 28

Candidate Starts for Sabertooth_49:

(Start: 13 @33447 has 1 MA's), (Start: 15 @33432 has 2 MA's), (Start: 28 @33390 has 159 MA's), (82, 33132), (92, 33099), (101, 33060), (112, 32892),

Gene: Sabia_53 Start: 33865, Stop: 33260, Start Num: 24

Candidate Starts for Sabia_53:

(Start: 24 @33865 has 227 MA's), (Start: 29 @33859 has 1 MA's), (60, 33715), (65, 33706), (73, 33679), (82, 33595), (105, 33376), (110, 33328),

Gene: Sabinator_52 Start: 33855, Stop: 33265, Start Num: 24

Candidate Starts for Sabinator_52:

(Start: 24 @33855 has 227 MA's), (Start: 29 @33849 has 1 MA's), (60, 33705), (65, 33696), (73, 33669), (82, 33585), (105, 33381), (110, 33333),

Gene: Sachima_47 Start: 33601, Stop: 33038, Start Num: 24

Candidate Starts for Sachima_47:

(Start: 19 @33616 has 64 MA's), (Start: 24 @33601 has 227 MA's), (66, 33475), (78, 33385), (101, 33286), (105, 33145),

Gene: Sagefire_50 Start: 36875, Stop: 36384, Start Num: 33

Candidate Starts for Sagefire_50:

(14, 36947), (20, 36908), (Start: 33 @36875 has 208 MA's), (57, 36794), (65, 36773), (88, 36641), (91, 36632), (108, 36473), (112, 36437),

Gene: Saintus_41 Start: 28634, Stop: 28113, Start Num: 34

Candidate Starts for Saintus_41:

(Start: 34 @28634 has 11 MA's), (62, 28517), (74, 28478), (78, 28418), (92, 28367), (93, 28361), (114, 28136),

Gene: Salz_49 Start: 32793, Stop: 32224, Start Num: 24

Candidate Starts for Salz_49:

(Start: 24 @32793 has 227 MA's), (62, 32658), (96, 32493), (105, 32337),

Gene: Sandaddy_46 Start: 35676, Stop: 35182, Start Num: 33

Candidate Starts for Sandaddy_46:

(14, 35748), (20, 35709), (Start: 33 @35676 has 208 MA's), (57, 35595), (65, 35574), (82, 35466), (88, 35442), (91, 35433), (108, 35274), (112, 35238),

Gene: Sanya_45 Start: 35975, Stop: 35472, Start Num: 33

Candidate Starts for Sanya_45:

(14, 36047), (20, 36008), (Start: 33 @35975 has 208 MA's), (57, 35894), (65, 35873), (82, 35765), (88, 35741), (91, 35732), (108, 35564), (112, 35528),

Gene: SarFire_45 Start: 35227, Stop: 34736, Start Num: 33

Candidate Starts for SarFire_45:

(14, 35299), (20, 35260), (Start: 33 @35227 has 208 MA's), (57, 35146), (65, 35125), (88, 34993), (91, 34984), (108, 34825), (112, 34789),

Gene: SaturnRing_51 Start: 33721, Stop: 33158, Start Num: 27

Candidate Starts for SaturnRing_51:

(Start: 13 @33778 has 1 MA's), (Start: 15 @33763 has 2 MA's), (Start: 16 @33751 has 23 MA's), (Start: 27 @33721 has 7 MA's), (41, 33652), (65, 33574), (73, 33538), (82, 33454), (112, 33199),

Gene: Scamp_49 Start: 33390, Stop: 32851, Start Num: 28

Candidate Starts for Scamp_49:

(Start: 13 @33447 has 1 MA's), (Start: 15 @33432 has 2 MA's), (Start: 28 @33390 has 159 MA's), (82, 33132), (92, 33099), (101, 33060), (112, 32892),

Gene: Scherzo_50 Start: 33905, Stop: 33342, Start Num: 24

Candidate Starts for Scherzo_50:

(Start: 19 @33920 has 64 MA's), (Start: 24 @33905 has 227 MA's), (66, 33779), (78, 33689), (101, 33590), (105, 33449),

Gene: Scorpia_46 Start: 32329, Stop: 31805, Start Num: 32

Candidate Starts for Scorpia_46:

(Start: 32 @32329 has 38 MA's), (62, 32197), (65, 32191), (92, 32047),

Gene: Scout_50 Start: 32872, Stop: 32279, Start Num: 16

Candidate Starts for Scout_50:

(Start: 13 @32899 has 1 MA's), (Start: 15 @32884 has 2 MA's), (Start: 16 @32872 has 23 MA's), (Start: 27 @32842 has 7 MA's), (41, 32773), (65, 32695), (72, 32662), (73, 32659), (82, 32575), (112, 32320),

Gene: Scowl_48 Start: 36163, Stop: 35660, Start Num: 33

Candidate Starts for Scowl_48:

(14, 36235), (20, 36196), (Start: 33 @36163 has 208 MA's), (57, 36082), (65, 36061), (88, 35929), (91, 35920), (108, 35752), (112, 35716),

Gene: Seabiscuit_49 Start: 35399, Stop: 34908, Start Num: 33

Candidate Starts for Seabiscuit_49:

(Start: 33 @35399 has 208 MA's), (57, 35318), (65, 35297), (88, 35165), (91, 35156), (102, 35105), (108, 34997), (112, 34961),

Gene: Seanderson_49 Start: 36566, Stop: 36075, Start Num: 33

Candidate Starts for Seanderson_49:

(14, 36638), (20, 36599), (Start: 33 @36566 has 208 MA's), (57, 36485), (65, 36464), (88, 36332), (91, 36323), (108, 36164), (112, 36128),

Gene: SemperFi_51 Start: 33914, Stop: 33378, Start Num: 19

Candidate Starts for SemperFi_51:

(Start: 19 @33914 has 64 MA's), (Start: 24 @33899 has 227 MA's), (62, 33785), (72, 33758), (75, 33713), (77, 33707), (79, 33683), (92, 33644), (94, 33635), (105, 33488), (108, 33470), (110, 33440),

Gene: Serenity_50 Start: 32842, Stop: 32324, Start Num: 24

Candidate Starts for Serenity_50:

(Start: 24 @32842 has 227 MA's), (49, 32764), (62, 32731), (77, 32653), (82, 32617), (92, 32590), (105, 32434),

Gene: Severus_46 Start: 32312, Stop: 31764, Start Num: 28

Candidate Starts for Severus_46:

(Start: 28 @32312 has 159 MA's), (41, 32243), (66, 32159), (68, 32156), (72, 32138), (73, 32135), (82, 32051), (92, 32018), (112, 31811),

Gene: Shaka_49 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for Shaka_49:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: Sham4_50 Start: 32821, Stop: 32252, Start Num: 24

Candidate Starts for Sham4_50:

(Start: 24 @32821 has 227 MA's), (62, 32686), (96, 32521), (105, 32365),

Gene: Shapes_52 Start: 33124, Stop: 32570, Start Num: 28

Candidate Starts for Shapes_52:

(Start: 28 @33124 has 159 MA's), (41, 33055), (70, 32962), (73, 32941), (82, 32857), (89, 32833), (92, 32824), (94, 32815), (112, 32617),

Gene: ShayRa_55 Start: 32786, Stop: 32223, Start Num: 36

Candidate Starts for ShayRa_55:

(Start: 36 @32786 has 19 MA's), (37, 32780), (57, 32678), (67, 32651), (70, 32648), (84, 32537), (90, 32516), (92, 32507), (94, 32498), (112, 32279),

Gene: SheaKeira_49 Start: 33305, Stop: 32739, Start Num: 24

Candidate Starts for SheaKeira_49:

(Start: 19 @33320 has 64 MA's), (Start: 24 @33305 has 227 MA's), (53, 33215), (64, 33182), (101, 32990), (105, 32846),

Gene: Sheen_50 Start: 35605, Stop: 35081, Start Num: 28

Candidate Starts for Sheen_50:

(Start: 28 @35605 has 159 MA's), (56, 35509), (76, 35416), (88, 35353), (90, 35350), (92, 35341), (98, 35308), (106, 35173), (112, 35128),

Gene: SheldonCooper_51 Start: 33808, Stop: 33272, Start Num: 28

Candidate Starts for SheldonCooper_51:

(12, 33871), (Start: 28 @33808 has 159 MA's), (82, 33550), (92, 33517), (101, 33478), (112, 33313),

Gene: ShortQueendom_41 Start: 31740, Stop: 31246, Start Num: 33

Candidate Starts for ShortQueendom_41:

(14, 31812), (20, 31773), (Start: 33 @31740 has 208 MA's), (57, 31659), (65, 31638), (88, 31506), (91, 31497), (108, 31338), (112, 31302),

Gene: Shuman_39 Start: 29809, Stop: 29285, Start Num: 31

Candidate Starts for Shuman_39:

(Start: 31 @29809 has 36 MA's), (60, 29704), (105, 29392), (107, 29383), (108, 29374), (110, 29344),

Gene: Shygu2_48 Start: 33364, Stop: 32825, Start Num: 28

Candidate Starts for Shygu2_48:

(Start: 13 @33421 has 1 MA's), (Start: 15 @33406 has 2 MA's), (Start: 28 @33364 has 159 MA's), (92, 33073), (101, 33034), (112, 32866),

Gene: Sibs6_48 Start: 34494, Stop: 34003, Start Num: 33

Candidate Starts for Sibs6_48:

(Start: 33 @34494 has 208 MA's), (57, 34413), (65, 34392), (76, 34323), (88, 34260), (91, 34251), (108, 34092), (112, 34056),

Gene: SkiPole_50 Start: 36227, Stop: 35736, Start Num: 33

Candidate Starts for SkiPole_50:

(Start: 33 @36227 has 208 MA's), (57, 36146), (65, 36125), (88, 35993), (91, 35984), (108, 35825), (112, 35789),

Gene: Skipitt_48 Start: 33382, Stop: 32843, Start Num: 28

Candidate Starts for Skipitt_48:

(Start: 13 @33439 has 1 MA's), (Start: 15 @33424 has 2 MA's), (Start: 28 @33382 has 159 MA's), (82, 33124), (92, 33091), (101, 33052), (112, 32884),

Gene: Slagathor_49 Start: 35914, Stop: 35423, Start Num: 33

Candidate Starts for Slagathor_49:

(14, 35986), (20, 35947), (Start: 33 @35914 has 208 MA's), (57, 35833), (65, 35812), (76, 35743), (88, 35680), (91, 35671), (108, 35512), (112, 35476),

Gene: Smairt_49 Start: 36201, Stop: 35722, Start Num: 33

Candidate Starts for Smairt_49:

(14, 36273), (20, 36234), (Start: 33 @36201 has 208 MA's), (57, 36120), (65, 36099), (76, 36030), (82, 35991), (88, 35967), (91, 35958), (108, 35811), (112, 35775),

Gene: Smeadley_47 Start: 32078, Stop: 31557, Start Num: 34

Candidate Starts for Smeadley_47:

(Start: 34 @32078 has 11 MA's), (62, 31961), (78, 31862), (92, 31811), (93, 31805), (114, 31580),

Gene: Smeagan_53 Start: 34354, Stop: 33827, Start Num: 24

Candidate Starts for Smeagan_53:

(Start: 19 @34369 has 64 MA's), (Start: 24 @34354 has 227 MA's), (49, 34267), (62, 34231), (72, 34204), (75, 34159), (77, 34153), (79, 34129), (92, 34090), (105, 33937), (108, 33919), (110, 33889),

Gene: Smeagol_48 Start: 36735, Stop: 36244, Start Num: 33

Candidate Starts for Smeagol_48:

(Start: 33 @36735 has 208 MA's), (57, 36654), (65, 36633), (88, 36501), (91, 36492), (108, 36333), (112, 36297),

Gene: SmellyB_52 Start: 32793, Stop: 32206, Start Num: 19

Candidate Starts for SmellyB_52:

(Start: 19 @32793 has 64 MA's), (Start: 24 @32778 has 227 MA's), (57, 32667), (65, 32649), (95, 32487), (101, 32460), (105, 32316), (106, 32313),

Gene: SnapTap_50 Start: 33710, Stop: 33189, Start Num: 24

Candidate Starts for SnapTap_50:

(Start: 19 @33725 has 64 MA's), (Start: 24 @33710 has 227 MA's), (62, 33596), (72, 33569), (75, 33524), (77, 33518), (79, 33494), (92, 33455), (94, 33446), (105, 33299), (108, 33281), (110, 33251),

Gene: Snape_50 Start: 32813, Stop: 32250, Start Num: 24

Candidate Starts for Snape_50:

(Start: 24 @32813 has 227 MA's), (62, 32684), (96, 32519), (105, 32363),

Gene: Snazzy_45 Start: 34933, Stop: 34439, Start Num: 33

Candidate Starts for Snazzy_45:

(Start: 33 @34933 has 208 MA's), (57, 34852), (65, 34831), (88, 34699), (91, 34690), (102, 34639), (108, 34531), (112, 34495),

Gene: Snickers_53 Start: 33830, Stop: 33240, Start Num: 24

Candidate Starts for Snickers_53:

(Start: 24 @33830 has 227 MA's), (Start: 29 @33824 has 1 MA's), (60, 33680), (65, 33671), (73, 33644), (82, 33560), (105, 33356), (110, 33308),

Gene: SoYo_53 Start: 33768, Stop: 33178, Start Num: 24

Candidate Starts for SoYo_53:

(Start: 24 @33768 has 227 MA's), (Start: 29 @33762 has 1 MA's), (60, 33618), (65, 33609), (73, 33582), (82, 33498), (105, 33294), (110, 33246),

Gene: SoilDragon_53 Start: 33304, Stop: 32714, Start Num: 24

Candidate Starts for SoilDragon_53:

(Start: 24 @33304 has 227 MA's), (Start: 29 @33298 has 1 MA's), (60, 33154), (65, 33145), (73, 33118), (82, 33034), (105, 32830), (110, 32782),

Gene: Solon_46 Start: 35558, Stop: 35067, Start Num: 33

Candidate Starts for Solon_46:

(14, 35630), (20, 35591), (Start: 33 @35558 has 208 MA's), (57, 35477), (65, 35456), (82, 35348), (88, 35324), (91, 35315), (108, 35156), (112, 35120),

Gene: SororFago_52 Start: 34625, Stop: 34074, Start Num: 19

Candidate Starts for SororFago_52:

(Start: 19 @34625 has 64 MA's), (Start: 24 @34610 has 227 MA's), (48, 34526), (50, 34517), (62, 34484), (72, 34457), (75, 34412), (77, 34406), (79, 34382), (92, 34343), (94, 34334), (105, 34184), (110, 34139),

Gene: Sorpresa_46 Start: 35678, Stop: 35184, Start Num: 33

Candidate Starts for Sorpresa_46:

(14, 35750), (20, 35711), (Start: 33 @35678 has 208 MA's), (57, 35597), (65, 35576), (82, 35468), (88, 35444), (91, 35435), (108, 35276), (112, 35240),

Gene: Soshari_55 Start: 33880, Stop: 33293, Start Num: 24

Candidate Starts for Soshari_55:

(Start: 24 @33880 has 227 MA's), (Start: 29 @33874 has 1 MA's), (60, 33736), (65, 33727), (73, 33700), (74, 33697), (78, 33637), (82, 33616), (105, 33409), (110, 33361),

Gene: Soups_55 Start: 33022, Stop: 32456, Start Num: 36

Candidate Starts for Soups_55:

(Start: 36 @33022 has 19 MA's), (37, 33016), (57, 32911), (67, 32884), (70, 32881), (84, 32770), (90, 32749), (92, 32740), (94, 32731), (112, 32512),

Gene: Sparxx_50 Start: 33383, Stop: 32844, Start Num: 28

Candidate Starts for Sparxx_50:

(Start: 13 @33440 has 1 MA's), (Start: 15 @33425 has 2 MA's), (Start: 28 @33383 has 159 MA's), (82, 33125), (92, 33092), (101, 33053), (112, 32885),

Gene: Spike509_53 Start: 33881, Stop: 33294, Start Num: 24

Candidate Starts for Spike509_53:

(Start: 24 @33881 has 227 MA's), (Start: 29 @33875 has 1 MA's), (60, 33737), (65, 33728), (73, 33701), (74, 33698), (78, 33638), (82, 33617), (105, 33410), (110, 33362),

Gene: SpikeBT_47 Start: 35915, Stop: 35421, Start Num: 33

Candidate Starts for SpikeBT_47:

(Start: 33 @35915 has 208 MA's), (57, 35834), (65, 35813), (82, 35705), (88, 35681), (91, 35672), (108, 35513), (112, 35477),

Gene: Spino_48 Start: 33388, Stop: 32849, Start Num: 28

Candidate Starts for Spino_48:

(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's), (82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: Spouty_50 Start: 33685, Stop: 33170, Start Num: 24

Candidate Starts for Spouty_50:

(Start: 19 @33700 has 64 MA's), (Start: 24 @33685 has 227 MA's), (52, 33592), (62, 33568), (77, 33490), (92, 33427), (105, 33277),

Gene: Squee_47 Start: 35892, Stop: 35398, Start Num: 33

Candidate Starts for Squee_47:

(Start: 33 @35892 has 208 MA's), (57, 35811), (65, 35790), (88, 35658), (91, 35649), (108, 35490), (112, 35454),

Gene: StCroix_39 Start: 29811, Stop: 29287, Start Num: 31

Candidate Starts for StCroix_39:

(Start: 31 @29811 has 36 MA's), (60, 29706), (105, 29394), (107, 29385), (108, 29376), (110, 29346),

Gene: Stagni_53 Start: 33859, Stop: 33269, Start Num: 24

Candidate Starts for Stagni_53:

(Start: 24 @33859 has 227 MA's), (Start: 29 @33853 has 1 MA's), (60, 33709), (65, 33700), (73, 33673), (82, 33589), (105, 33385), (110, 33337),

Gene: StarStuff_52 Start: 33471, Stop: 32893, Start Num: 24

Candidate Starts for StarStuff_52:

(Start: 19 @33486 has 64 MA's), (Start: 24 @33471 has 227 MA's), (60, 33354), (65, 33348), (72, 33324), (76, 33276), (97, 33177), (98, 33168), (101, 33159), (105, 33006),

Gene: Stasia_48 Start: 33264, Stop: 32728, Start Num: 28

Candidate Starts for Stasia_48:

(Start: 13 @33321 has 1 MA's), (Start: 15 @33306 has 2 MA's), (Start: 28 @33264 has 159 MA's), (82, 33006), (92, 32973), (101, 32934), (106, 32817), (112, 32769),

Gene: Steamy_46 Start: 33175, Stop: 32648, Start Num: 24

Candidate Starts for Steamy_46:

(Start: 19 @33190 has 64 MA's), (Start: 24 @33175 has 227 MA's), (54, 33073), (77, 32971), (92, 32908), (105, 32749),

Gene: StepMih_53 Start: 33850, Stop: 33260, Start Num: 24

Candidate Starts for StepMih_53:

(Start: 24 @33850 has 227 MA's), (Start: 29 @33844 has 1 MA's), (60, 33700), (65, 33691), (73, 33664), (82, 33580), (105, 33376), (110, 33328),

Gene: Stephig9_47 Start: 31916, Stop: 31395, Start Num: 34

Candidate Starts for Stephig9_47:

(Start: 34 @31916 has 11 MA's), (62, 31799), (78, 31700), (91, 31652), (92, 31649), (93, 31643), (114, 31418),

Gene: StewieG_46 Start: 33078, Stop: 32599, Start Num: 33

Candidate Starts for StewieG_46:

(14, 33150), (20, 33111), (Start: 33 @33078 has 208 MA's), (57, 32997), (65, 32976), (76, 32907), (88, 32844), (91, 32835), (108, 32688), (112, 32652),

Gene: Stink_48 Start: 33111, Stop: 32563, Start Num: 28

Candidate Starts for Stink_48:

(Start: 28 @33111 has 159 MA's), (66, 32964), (92, 32814), (106, 32652), (112, 32604),

Gene: StrongArm_47 Start: 36761, Stop: 36270, Start Num: 33

Candidate Starts for StrongArm_47:

(14, 36833), (20, 36794), (Start: 33 @36761 has 208 MA's), (57, 36680), (65, 36659), (88, 36527), (91, 36518), (108, 36359), (112, 36323),

Gene: Strosahl_54 Start: 32444, Stop: 31914, Start Num: 36

Candidate Starts for Strosahl_54:

(Start: 36 @32444 has 19 MA's), (37, 32438), (46, 32378), (78, 32219), (82, 32201), (92, 32174), (105, 32018), (110, 31973),

Gene: Success_22 Start: 13796, Stop: 13275, Start Num: 42

Candidate Starts for Success_22:

(Start: 42 @13796 has 1 MA's), (61, 13724), (66, 13709), (81, 13592), (83, 13583), (85, 13577), (86, 13574),

Gene: Sumter_44 Start: 35263, Stop: 34772, Start Num: 33

Candidate Starts for Sumter_44:

(14, 35335), (20, 35296), (Start: 33 @35263 has 208 MA's), (57, 35182), (65, 35161), (82, 35053), (88, 35029), (91, 35020), (108, 34861), (112, 34825),

Gene: Sunhee_53 Start: 33028, Stop: 32519, Start Num: 24

Candidate Starts for Sunhee_53:

(Start: 19 @33043 has 64 MA's), (Start: 24 @33028 has 227 MA's), (62, 32914), (72, 32887), (75, 32842), (77, 32836), (79, 32812), (92, 32773), (105, 32629), (110, 32584),

Gene: Sunshine924_48 Start: 35178, Stop: 34687, Start Num: 33

Candidate Starts for Sunshine924_48:

(Start: 33 @35178 has 208 MA's), (57, 35097), (65, 35076), (88, 34944), (91, 34935), (108, 34776), (112, 34740),

Gene: SuperAwesome_52 Start: 32807, Stop: 32214, Start Num: 19

Candidate Starts for SuperAwesome_52:

(Start: 19 @32807 has 64 MA's), (Start: 24 @32792 has 227 MA's), (57, 32681), (65, 32663), (95, 32501), (101, 32474), (105, 32324), (106, 32321),

Gene: SuperCallie99_51 Start: 32665, Stop: 32087, Start Num: 24

Candidate Starts for SuperCallie99_51:

(Start: 19 @32680 has 64 MA's), (Start: 24 @32665 has 227 MA's), (57, 32554), (65, 32536), (95, 32374), (101, 32347), (105, 32197), (106, 32194),

Gene: Superchunk_49 Start: 32358, Stop: 31759, Start Num: 24

Candidate Starts for Superchunk_49:

(Start: 19 @32373 has 64 MA's), (Start: 24 @32358 has 227 MA's), (60, 32208), (76, 32133), (85, 32088), (101, 32016), (105, 31869), (106, 31866), (108, 31851), (110, 31824),

Gene: Swann_39 Start: 29796, Stop: 29272, Start Num: 31

Candidate Starts for Swann_39:

(Start: 31 @29796 has 36 MA's), (60, 29691), (105, 29379), (107, 29370), (108, 29361), (110, 29331),

Gene: SweetiePie_50 Start: 33842, Stop: 33318, Start Num: 24

Candidate Starts for SweetiePie_50:

(Start: 19 @33857 has 64 MA's), (Start: 24 @33842 has 227 MA's), (62, 33728), (72, 33701), (75, 33656), (77, 33650), (79, 33626), (92, 33587), (94, 33578), (105, 33428), (108, 33410), (110, 33380),

Gene: SwirlSquare_55 Start: 33014, Stop: 32430, Start Num: 24

Candidate Starts for SwirlSquare_55:

(Start: 19 @33029 has 64 MA's), (Start: 24 @33014 has 227 MA's), (74, 32849), (78, 32789), (101, 32690), (105, 32537), (106, 32534), (110, 32492),

Gene: Swirley_45 Start: 32876, Stop: 32349, Start Num: 32

Candidate Starts for Swirley_45:

(Start: 32 @32876 has 38 MA's), (62, 32741), (65, 32735), (92, 32591), (114, 32372),

Gene: SwissCheese_49 Start: 35894, Stop: 35403, Start Num: 33

Candidate Starts for SwissCheese_49:

(14, 35966), (20, 35927), (Start: 33 @35894 has 208 MA's), (57, 35813), (65, 35792), (88, 35660), (91, 35651), (108, 35492), (112, 35456),

Gene: Switzer_48 Start: 35468, Stop: 34977, Start Num: 33

Candidate Starts for Switzer_48:

(Start: 33 @35468 has 208 MA's), (57, 35387), (65, 35366), (82, 35258), (88, 35234), (91, 35225), (108, 35066), (112, 35030),

Gene: Switzerland_54 Start: 32922, Stop: 32356, Start Num: 36

Candidate Starts for Switzerland_54:

(Start: 36 @32922 has 19 MA's), (37, 32916), (57, 32811), (67, 32784), (70, 32781), (84, 32670), (90, 32649), (92, 32640), (94, 32631), (112, 32412),

Gene: Swole_48 Start: 35063, Stop: 34572, Start Num: 33

Candidate Starts for Swole_48:

(14, 35135), (20, 35096), (Start: 33 @35063 has 208 MA's), (57, 34982), (65, 34961), (76, 34892), (88, 34829), (91, 34820), (108, 34661), (112, 34625),

Gene: SydNat_44 Start: 33081, Stop: 32545, Start Num: 32

Candidate Starts for SydNat_44:

(Start: 32 @33081 has 38 MA's), (62, 32946), (65, 32940), (92, 32796),

Gene: TNguyen7_51 Start: 33687, Stop: 33124, Start Num: 27

Candidate Starts for TNguyen7_51:

(Start: 13 @33744 has 1 MA's), (Start: 15 @33729 has 2 MA's), (Start: 16 @33717 has 23 MA's), (Start: 27 @33687 has 7 MA's), (41, 33618), (65, 33540), (73, 33504), (82, 33420), (112, 33165),

Gene: TWAMP_39 Start: 29798, Stop: 29274, Start Num: 31

Candidate Starts for TWAMP_39:

(Start: 31 @29798 has 36 MA's), (60, 29693), (105, 29381), (107, 29372), (108, 29363), (110, 29333),

Gene: Takoda_39 Start: 29771, Stop: 29247, Start Num: 31

Candidate Starts for Takoda_39:

(Start: 31 @29771 has 36 MA's), (60, 29666), (105, 29354), (107, 29345), (108, 29336), (110, 29306),

Gene: Taquarus_49 Start: 33391, Stop: 32852, Start Num: 28

Candidate Starts for Taquarus_49:

(Start: 13 @33448 has 1 MA's), (Start: 15 @33433 has 2 MA's), (Start: 28 @33391 has 159 MA's), (82, 33133), (92, 33100), (101, 33061), (112, 32893),

Gene: Target_48 Start: 34467, Stop: 33976, Start Num: 33

Candidate Starts for Target_48:

(14, 34539), (20, 34500), (Start: 33 @34467 has 208 MA's), (57, 34386), (88, 34233), (91, 34224), (108, 34065), (112, 34029),

Gene: TarsusIV_49 Start: 33682, Stop: 33143, Start Num: 24

Candidate Starts for TarsusIV_49:

(Start: 19 @33697 has 64 MA's), (Start: 24 @33682 has 227 MA's), (51, 33598), (62, 33562), (72, 33535), (75, 33490), (77, 33484), (79, 33460), (91, 33424), (92, 33421), (94, 33412), (105, 33256),

Gene: Tarynearal_41 Start: 32318, Stop: 31791, Start Num: 32
Candidate Starts for Tarynearal_41:
(Start: 32 @32318 has 38 MA's), (62, 32183), (65, 32177), (92, 32033), (114, 31814),

Gene: Tasp14_48 Start: 35800, Stop: 35309, Start Num: 33
Candidate Starts for Tasp14_48:
(Start: 33 @35800 has 208 MA's), (57, 35719), (65, 35698), (88, 35566), (91, 35557), (102, 35506),
(108, 35398), (112, 35362),

Gene: Taurus_54 Start: 33856, Stop: 33266, Start Num: 24
Candidate Starts for Taurus_54:
(Start: 24 @33856 has 227 MA's), (Start: 29 @33850 has 1 MA's), (60, 33706), (65, 33697), (73, 33670), (82, 33586), (105, 33382), (110, 33334),

Gene: Teodoridan_45 Start: 34988, Stop: 34497, Start Num: 33
Candidate Starts for Teodoridan_45:
(Start: 33 @34988 has 208 MA's), (Start: 35 @34982 has 1 MA's), (57, 34907), (65, 34886), (88, 34754), (91, 34745), (102, 34694), (108, 34586), (112, 34550),

Gene: Texage_48 Start: 33696, Stop: 33097, Start Num: 16
Candidate Starts for Texage_48:
(Start: 13 @33723 has 1 MA's), (Start: 15 @33708 has 2 MA's), (Start: 16 @33696 has 23 MA's),
(Start: 27 @33666 has 7 MA's), (41, 33597), (65, 33519), (82, 33399), (112, 33138),

Gene: Thanksgivukkah_48 Start: 33428, Stop: 32847, Start Num: 15
Candidate Starts for Thanksgivukkah_48:
(Start: 13 @33443 has 1 MA's), (Start: 15 @33428 has 2 MA's), (Start: 28 @33386 has 159 MA's),
(82, 33128), (92, 33095), (101, 33056), (112, 32888),

Gene: Theia_40 Start: 32347, Stop: 31820, Start Num: 32
Candidate Starts for Theia_40:
(Start: 32 @32347 has 38 MA's), (62, 32212), (65, 32206), (92, 32062),

Gene: TheloniousMonk_48 Start: 36922, Stop: 36431, Start Num: 33
Candidate Starts for TheloniousMonk_48:
(14, 36994), (20, 36955), (Start: 33 @36922 has 208 MA's), (57, 36841), (65, 36820), (76, 36751), (88, 36688), (91, 36679), (108, 36520), (112, 36484),

Gene: Thor_45 Start: 34585, Stop: 34094, Start Num: 33
Candidate Starts for Thor_45:
(14, 34657), (20, 34618), (Start: 33 @34585 has 208 MA's), (57, 34504), (65, 34483), (88, 34351), (91, 34342), (108, 34183), (112, 34147),

Gene: Tiffany_53 Start: 33742, Stop: 33152, Start Num: 24
Candidate Starts for Tiffany_53:
(Start: 24 @33742 has 227 MA's), (Start: 29 @33736 has 1 MA's), (60, 33592), (65, 33583), (73, 33556), (82, 33472), (105, 33268), (110, 33220),

Gene: Tiger_41 Start: 31886, Stop: 31353, Start Num: 32
Candidate Starts for Tiger_41:
(Start: 32 @31886 has 38 MA's), (62, 31754), (65, 31748), (92, 31604),

Gene: Timothy_50 Start: 32790, Stop: 32227, Start Num: 24

Candidate Starts for Timothy_50:
(Start: 24 @32790 has 227 MA's), (62, 32661), (96, 32496), (105, 32340),

Gene: Timshel_47 Start: 34579, Stop: 34079, Start Num: 28
Candidate Starts for Timshel_47:
(Start: 28 @34579 has 159 MA's), (62, 34474), (82, 34354), (92, 34324), (112, 34126),

Gene: TinaFeyge_49 Start: 33383, Stop: 32844, Start Num: 28
Candidate Starts for TinaFeyge_49:
(Start: 13 @33440 has 1 MA's), (Start: 15 @33425 has 2 MA's), (Start: 28 @33383 has 159 MA's),
(82, 33125), (92, 33092), (101, 33053), (112, 32885),

Gene: TinyTimmy_50 Start: 32839, Stop: 32270, Start Num: 24
Candidate Starts for TinyTimmy_50:
(Start: 24 @32839 has 227 MA's), (62, 32704), (96, 32539), (105, 32383),

Gene: Tinybot_48 Start: 33415, Stop: 32876, Start Num: 28
Candidate Starts for Tinybot_48:
(Start: 13 @33472 has 1 MA's), (Start: 15 @33457 has 2 MA's), (Start: 28 @33415 has 159 MA's),
(82, 33157), (92, 33124), (101, 33085), (112, 32917),

Gene: TopsytheTRex_46 Start: 32912, Stop: 32397, Start Num: 24
Candidate Starts for TopsytheTRex_46:
(Start: 24 @32912 has 227 MA's), (49, 32834), (62, 32801), (77, 32723), (82, 32687), (92, 32660),
(105, 32507),

Gene: TiroTheta9_49 Start: 33382, Stop: 32843, Start Num: 28
Candidate Starts for TiroTheta9_49:
(Start: 13 @33439 has 1 MA's), (Start: 15 @33424 has 2 MA's), (Start: 28 @33382 has 159 MA's),
(82, 33124), (92, 33091), (101, 33052), (112, 32884),

Gene: Toaka_50 Start: 33510, Stop: 32944, Start Num: 24
Candidate Starts for Toaka_50:
(Start: 19 @33525 has 64 MA's), (Start: 24 @33510 has 227 MA's), (56, 33411), (57, 33408), (78,
33297), (101, 33198), (105, 33051),

Gene: Todacoro_49 Start: 33695, Stop: 33096, Start Num: 16
Candidate Starts for Todacoro_49:
(Start: 13 @33722 has 1 MA's), (Start: 15 @33707 has 2 MA's), (Start: 16 @33695 has 23 MA's),
(Start: 27 @33665 has 7 MA's), (41, 33596), (65, 33518), (82, 33398), (112, 33137),

Gene: Tomathan_52 Start: 33468, Stop: 32890, Start Num: 24
Candidate Starts for Tomathan_52:
(Start: 19 @33483 has 64 MA's), (Start: 24 @33468 has 227 MA's), (60, 33351), (65, 33345), (72,
33321), (76, 33273), (80, 33243), (97, 33174), (98, 33165), (101, 33156), (105, 33003),

Gene: ToneTone_49 Start: 32472, Stop: 31927, Start Num: 24
Candidate Starts for ToneTone_49:
(6, 32586), (7, 32571), (Start: 19 @32487 has 64 MA's), (Start: 24 @32472 has 227 MA's), (76,
32262), (77, 32259), (92, 32196), (94, 32187), (105, 32037), (106, 32034),

Gene: Topanga_46 Start: 33064, Stop: 32513, Start Num: 28
Candidate Starts for Topanga_46:

(Start: 28 @33064 has 159 MA's), (41, 32995), (73, 32884), (82, 32800), (89, 32776), (92, 32767), (94, 32758), (112, 32560),

Gene: Topgun_46 Start: 35080, Stop: 34586, Start Num: 33

Candidate Starts for Topgun_46:

(Start: 33 @35080 has 208 MA's), (Start: 35 @35074 has 1 MA's), (57, 34999), (65, 34978), (88, 34843), (91, 34834), (102, 34783), (108, 34675), (112, 34639),

Gene: Toro_52 Start: 35717, Stop: 35193, Start Num: 28

Candidate Starts for Toro_52:

(Start: 28 @35717 has 159 MA's), (56, 35621), (90, 35462), (92, 35453), (98, 35420), (106, 35285), (112, 35240),

Gene: Tote_43 Start: 32330, Stop: 31839, Start Num: 33

Candidate Starts for Tote_43:

(14, 32402), (20, 32363), (Start: 33 @32330 has 208 MA's), (57, 32249), (65, 32228), (76, 32159), (88, 32096), (91, 32087), (108, 31928), (112, 31892),

Gene: Traft412_47 Start: 36020, Stop: 35529, Start Num: 33

Candidate Starts for Traft412_47:

(Start: 33 @36020 has 208 MA's), (57, 35939), (65, 35918), (82, 35810), (88, 35786), (91, 35777), (108, 35618), (112, 35582),

Gene: Travvers_52 Start: 33468, Stop: 32890, Start Num: 24

Candidate Starts for Travvers_52:

(Start: 19 @33483 has 64 MA's), (Start: 24 @33468 has 227 MA's), (60, 33351), (65, 33345), (72, 33321), (76, 33273), (97, 33174), (98, 33165), (101, 33156), (105, 33003),

Gene: Treddle_48 Start: 36535, Stop: 36044, Start Num: 33

Candidate Starts for Treddle_48:

(14, 36607), (20, 36568), (Start: 33 @36535 has 208 MA's), (57, 36454), (65, 36433), (76, 36364), (88, 36301), (91, 36292), (108, 36133), (112, 36097),

Gene: Trike_46 Start: 32321, Stop: 31773, Start Num: 28

Candidate Starts for Trike_46:

(Start: 28 @32321 has 159 MA's), (41, 32252), (66, 32168), (68, 32165), (72, 32147), (73, 32144), (82, 32060), (92, 32027), (112, 31820),

Gene: Tripl3t_47 Start: 36206, Stop: 35715, Start Num: 33

Candidate Starts for Tripl3t_47:

(14, 36278), (20, 36239), (Start: 33 @36206 has 208 MA's), (57, 36125), (65, 36104), (76, 36035), (88, 35972), (91, 35963), (108, 35804), (112, 35768),

Gene: Trixie_48 Start: 33814, Stop: 33275, Start Num: 19

Candidate Starts for Trixie_48:

(Start: 19 @33814 has 64 MA's), (Start: 24 @33799 has 227 MA's), (49, 33712), (72, 33649), (77, 33598), (79, 33574), (92, 33535), (105, 33385), (108, 33367), (110, 33337),

Gene: Trooper_51 Start: 34077, Stop: 33538, Start Num: 19

Candidate Starts for Trooper_51:

(17, 34089), (Start: 19 @34077 has 64 MA's), (Start: 24 @34062 has 227 MA's), (49, 33984), (62, 33948), (72, 33921), (77, 33870), (79, 33846), (82, 33834), (92, 33807), (105, 33651), (108, 33633),

Gene: Trouble_49 Start: 36916, Stop: 36437, Start Num: 33
Candidate Starts for Trouble_49:
(Start: 33 @36916 has 208 MA's), (57, 36835), (65, 36814), (88, 36682), (91, 36673), (108, 36526),
(112, 36490),

Gene: TroyPia_50 Start: 33386, Stop: 32847, Start Num: 28
Candidate Starts for TroyPia_50:
(Start: 13 @33443 has 1 MA's), (Start: 15 @33428 has 2 MA's), (Start: 28 @33386 has 159 MA's),
(82, 33128), (92, 33095), (101, 33056), (112, 32888),

Gene: Tubs_50 Start: 33619, Stop: 33104, Start Num: 24
Candidate Starts for Tubs_50:
(Start: 19 @33634 has 64 MA's), (Start: 24 @33619 has 227 MA's), (52, 33526), (62, 33502), (77,
33424), (92, 33361), (105, 33211),

Gene: Tucker_53 Start: 32940, Stop: 32392, Start Num: 24
Candidate Starts for Tucker_53:
(Start: 18 @32955 has 1 MA's), (Start: 24 @32940 has 227 MA's), (76, 32730), (77, 32727), (92,
32664), (94, 32655), (105, 32502), (106, 32499),

Gene: Turbido_51 Start: 34088, Stop: 33570, Start Num: 24
Candidate Starts for Turbido_51:
(Start: 19 @34103 has 64 MA's), (Start: 24 @34088 has 227 MA's), (49, 34004), (62, 33968), (75,
33896), (77, 33890), (79, 33866), (80, 33863), (92, 33827), (105, 33680), (108, 33662), (110, 33632),

Gene: Turj99_44 Start: 34778, Stop: 34287, Start Num: 33
Candidate Starts for Turj99_44:
(Start: 33 @34778 has 208 MA's), (57, 34697), (65, 34676), (88, 34544), (91, 34535), (108, 34376),
(112, 34340),

Gene: Twister_46 Start: 32975, Stop: 32424, Start Num: 28
Candidate Starts for Twister_46:
(Start: 28 @32975 has 159 MA's), (41, 32906), (73, 32795), (82, 32711), (89, 32687), (92, 32678), (94,
32669), (112, 32471),

Gene: TwoPeat_48 Start: 35654, Stop: 35163, Start Num: 33
Candidate Starts for TwoPeat_48:
(14, 35726), (20, 35687), (Start: 33 @35654 has 208 MA's), (57, 35573), (65, 35552), (76, 35483), (88,
35420), (91, 35411), (108, 35252), (112, 35216),

Gene: TygerBlood_49 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for TygerBlood_49:
(Start: 13 @33445 has 1 MA's), (Start: 15 @33430 has 2 MA's), (Start: 28 @33388 has 159 MA's),
(82, 33130), (92, 33097), (101, 33058), (112, 32890),

Gene: U2_46 Start: 35448, Stop: 34957, Start Num: 33
Candidate Starts for U2_46:
(Start: 33 @35448 has 208 MA's), (57, 35367), (65, 35346), (82, 35238), (88, 35214), (91, 35205),
(108, 35046), (112, 35010),

Gene: Ugenie5_47 Start: 33904, Stop: 33341, Start Num: 24
Candidate Starts for Ugenie5_47:

(Start: 19 @33919 has 64 MA's), (Start: 24 @33904 has 227 MA's), (66, 33778), (78, 33688), (101, 33589), (105, 33448),

Gene: UhSalsa_39 Start: 29797, Stop: 29273, Start Num: 31

Candidate Starts for UhSalsa_39:

(Start: 31 @29797 has 36 MA's), (60, 29692), (105, 29380), (107, 29371), (108, 29362), (110, 29332),

Gene: Ulysses_48 Start: 33065, Stop: 32526, Start Num: 28

Candidate Starts for Ulysses_48:

(Start: 13 @33122 has 1 MA's), (Start: 15 @33107 has 2 MA's), (Start: 28 @33065 has 159 MA's), (82, 32807), (92, 32774), (101, 32735), (112, 32567),

Gene: UnionJack_43 Start: 31830, Stop: 31306, Start Num: 32

Candidate Starts for UnionJack_43:

(Start: 32 @31830 has 38 MA's), (62, 31698), (65, 31692), (92, 31548), (114, 31329),

Gene: Updawg_51 Start: 33944, Stop: 33435, Start Num: 24

Candidate Starts for Updawg_51:

(Start: 19 @33959 has 64 MA's), (Start: 24 @33944 has 227 MA's), (49, 33875), (62, 33839), (72, 33812), (75, 33767), (77, 33761), (79, 33737), (82, 33725), (92, 33698), (94, 33689), (97, 33671), (105, 33548),

Gene: VA6_51 Start: 34058, Stop: 33534, Start Num: 24

Candidate Starts for VA6_51:

(Start: 19 @34073 has 64 MA's), (Start: 24 @34058 has 227 MA's), (56, 33953), (72, 33908), (79, 33833), (92, 33794), (105, 33644), (108, 33626), (110, 33596),

Gene: VC3_53 Start: 33887, Stop: 33309, Start Num: 24

Candidate Starts for VC3_53:

(Start: 19 @33902 has 64 MA's), (Start: 24 @33887 has 227 MA's), (60, 33773), (65, 33767), (72, 33740), (76, 33692), (80, 33662), (96, 33596), (97, 33593), (98, 33584), (101, 33575), (105, 33422),

Gene: Vanisoa_50 Start: 34540, Stop: 33974, Start Num: 24

Candidate Starts for Vanisoa_50:

(Start: 19 @34555 has 64 MA's), (Start: 24 @34540 has 227 MA's), (60, 34429), (101, 34234), (105, 34081),

Gene: Veracruz_48 Start: 33695, Stop: 33096, Start Num: 16

Candidate Starts for Veracruz_48:

(Start: 13 @33722 has 1 MA's), (Start: 15 @33707 has 2 MA's), (Start: 16 @33695 has 23 MA's), (Start: 27 @33665 has 7 MA's), (41, 33596), (65, 33518), (82, 33398), (112, 33137),

Gene: Violet_45 Start: 35592, Stop: 35101, Start Num: 33

Candidate Starts for Violet_45:

(14, 35664), (20, 35625), (Start: 33 @35592 has 208 MA's), (57, 35511), (65, 35490), (91, 35349), (108, 35190), (112, 35154),

Gene: Vix_53 Start: 33939, Stop: 33349, Start Num: 24

Candidate Starts for Vix_53:

(Start: 24 @33939 has 227 MA's), (Start: 29 @33933 has 1 MA's), (60, 33789), (65, 33780), (73, 33753), (82, 33669), (105, 33465), (110, 33417),

Gene: VohminGhazi_52 Start: 32779, Stop: 32207, Start Num: 24

Candidate Starts for VohminGhazi_52:

(Start: 19 @32794 has 64 MA's), (Start: 24 @32779 has 227 MA's), (57, 32668), (65, 32650), (95, 32488), (101, 32461), (105, 32317), (106, 32314),

Gene: Waits_54 Start: 32652, Stop: 32116, Start Num: 36

Candidate Starts for Waits_54:

(Start: 36 @32652 has 19 MA's), (37, 32646), (46, 32586), (78, 32427), (82, 32409), (92, 32382), (105, 32220), (110, 32175),

Gene: WalterMcMickey_46 Start: 32975, Stop: 32424, Start Num: 28

Candidate Starts for WalterMcMickey_46:

(Start: 28 @32975 has 159 MA's), (41, 32906), (73, 32795), (82, 32711), (89, 32687), (92, 32678), (94, 32669), (112, 32471),

Gene: Wander_49 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for Wander_49:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: Watermelon_48 Start: 35984, Stop: 35463, Start Num: 33

Candidate Starts for Watermelon_48:

(14, 36056), (20, 36017), (Start: 33 @35984 has 208 MA's), (57, 35873), (65, 35852), (76, 35783), (88, 35720), (91, 35711), (108, 35552), (112, 35516),

Gene: Watson_53 Start: 33848, Stop: 33258, Start Num: 24

Candidate Starts for Watson_53:

(Start: 24 @33848 has 227 MA's), (Start: 29 @33842 has 1 MA's), (60, 33698), (65, 33689), (73, 33662), (82, 33578), (105, 33374), (110, 33326),

Gene: WeiHuaDA_52 Start: 34601, Stop: 34083, Start Num: 24

Candidate Starts for WeiHuaDA_52:

(Start: 19 @34616 has 64 MA's), (Start: 24 @34601 has 227 MA's), (44, 34529), (49, 34517), (62, 34481), (65, 34475), (72, 34454), (75, 34409), (77, 34403), (79, 34379), (92, 34340), (105, 34193), (108, 34175), (110, 34145),

Gene: Whabigail7_51 Start: 34073, Stop: 33555, Start Num: 24

Candidate Starts for Whabigail7_51:

(Start: 19 @34088 has 64 MA's), (Start: 24 @34073 has 227 MA's), (49, 33989), (62, 33953), (75, 33881), (77, 33875), (79, 33851), (80, 33848), (82, 33839), (92, 33812), (105, 33665), (108, 33647), (110, 33617),

Gene: Wheeler_47 Start: 35662, Stop: 35171, Start Num: 33

Candidate Starts for Wheeler_47:

(Start: 33 @35662 has 208 MA's), (57, 35581), (65, 35560), (76, 35491), (88, 35428), (91, 35419), (108, 35260), (112, 35224),

Gene: WideWale_51 Start: 33959, Stop: 33435, Start Num: 19

Candidate Starts for WideWale_51:

(Start: 19 @33959 has 64 MA's), (Start: 24 @33944 has 227 MA's), (49, 33875), (62, 33839), (72, 33812), (75, 33767), (77, 33761), (79, 33737), (82, 33725), (92, 33698), (94, 33689), (97, 33671), (105, 33548),

Gene: Wiks_51 Start: 32558, Stop: 31995, Start Num: 19

Candidate Starts for Wiks_51:

(6, 32657), (7, 32642), (Start: 19 @32558 has 64 MA's), (Start: 24 @32543 has 227 MA's), (76, 32333), (77, 32330), (92, 32267), (94, 32258), (105, 32105), (106, 32102),

Gene: Wilbur_49 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for Wilbur_49:

(Start: 13 @33442 has 1 MA's), (Start: 15 @33427 has 2 MA's), (Start: 28 @33385 has 159 MA's), (82, 33127), (92, 33094), (101, 33055), (112, 32887),

Gene: Wile_48 Start: 33395, Stop: 32856, Start Num: 28

Candidate Starts for Wile_48:

(Start: 13 @33452 has 1 MA's), (Start: 15 @33437 has 2 MA's), (Start: 28 @33395 has 159 MA's), (82, 33137), (92, 33104), (101, 33065), (112, 32897),

Gene: Wilkins_46 Start: 35010, Stop: 34519, Start Num: 33

Candidate Starts for Wilkins_46:

(Start: 33 @35010 has 208 MA's), (Start: 35 @35004 has 1 MA's), (57, 34929), (65, 34908), (76, 34839), (88, 34776), (91, 34767), (102, 34716), (108, 34608), (112, 34572),

Gene: Wizard007_49 Start: 33393, Stop: 32854, Start Num: 28

Candidate Starts for Wizard007_49:

(Start: 13 @33450 has 1 MA's), (Start: 15 @33435 has 2 MA's), (Start: 28 @33393 has 159 MA's), (82, 33135), (92, 33102), (101, 33063), (112, 32895),

Gene: Wooldri_55 Start: 33768, Stop: 33178, Start Num: 24

Candidate Starts for Wooldri_55:

(Start: 24 @33768 has 227 MA's), (Start: 29 @33762 has 1 MA's), (60, 33618), (65, 33609), (73, 33582), (82, 33498), (105, 33294), (110, 33246),

Gene: WunderPhul_52 Start: 32541, Stop: 31993, Start Num: 24

Candidate Starts for WunderPhul_52:

(6, 32655), (7, 32640), (Start: 19 @32556 has 64 MA's), (Start: 24 @32541 has 227 MA's), (76, 32331), (77, 32328), (92, 32265), (94, 32256), (105, 32103), (106, 32100),

Gene: Xena_47 Start: 33361, Stop: 32822, Start Num: 28

Candidate Starts for Xena_47:

(Start: 13 @33418 has 1 MA's), (Start: 15 @33403 has 2 MA's), (Start: 28 @33361 has 159 MA's), (82, 33103), (92, 33070), (101, 33031), (112, 32863),

Gene: XianYue_49 Start: 33430, Stop: 32909, Start Num: 24

Candidate Starts for XianYue_49:

(Start: 19 @33445 has 64 MA's), (Start: 24 @33430 has 227 MA's), (62, 33310), (72, 33283), (75, 33238), (77, 33232), (92, 33169), (105, 33019), (108, 33001), (110, 32971),

Gene: Yecey3_51 Start: 33196, Stop: 32624, Start Num: 24

Candidate Starts for Yecey3_51:

(Start: 19 @33211 has 64 MA's), (Start: 24 @33196 has 227 MA's), (74, 33043), (76, 33001), (95, 32911), (101, 32884), (105, 32731),

Gene: YoSam321_49 Start: 33382, Stop: 32843, Start Num: 28

Candidate Starts for YoSam321_49:

(Start: 13 @33439 has 1 MA's), (Start: 15 @33424 has 2 MA's), (Start: 28 @33382 has 159 MA's), (82, 33124), (92, 33091), (101, 33052), (112, 32884),

Gene: Yogi_39 Start: 29772, Stop: 29248, Start Num: 31

Candidate Starts for Yogi_39:

(Start: 31 @29772 has 36 MA's), (60, 29667), (105, 29355), (107, 29346), (108, 29337), (110, 29307),

Gene: Yokurt_52 Start: 32543, Stop: 31995, Start Num: 24

Candidate Starts for Yokurt_52:

(6, 32657), (7, 32642), (Start: 19 @32558 has 64 MA's), (Start: 24 @32543 has 227 MA's), (76, 32333), (77, 32330), (92, 32267), (94, 32258), (105, 32105), (106, 32102),

Gene: Yoncess_39 Start: 29773, Stop: 29249, Start Num: 31

Candidate Starts for Yoncess_39:

(Start: 31 @29773 has 36 MA's), (60, 29668), (105, 29356), (107, 29347), (108, 29338), (110, 29308),

Gene: Zaka_52 Start: 32543, Stop: 31995, Start Num: 24

Candidate Starts for Zaka_52:

(6, 32657), (7, 32642), (Start: 19 @32558 has 64 MA's), (Start: 24 @32543 has 227 MA's), (76, 32333), (77, 32330), (92, 32267), (94, 32258), (105, 32105), (106, 32102),

Gene: Zeeculate_45 Start: 35637, Stop: 35146, Start Num: 33

Candidate Starts for Zeeculate_45:

(14, 35709), (20, 35670), (Start: 33 @35637 has 208 MA's), (57, 35556), (65, 35535), (88, 35403), (91, 35394), (108, 35235), (112, 35199),

Gene: Zephyr_47 Start: 35477, Stop: 34986, Start Num: 33

Candidate Starts for Zephyr_47:

(14, 35549), (20, 35510), (Start: 33 @35477 has 208 MA's), (57, 35396), (65, 35375), (82, 35267), (88, 35243), (91, 35234), (108, 35075), (112, 35039),

Gene: Zetzy_52 Start: 33419, Stop: 32829, Start Num: 24

Candidate Starts for Zetzy_52:

(Start: 24 @33419 has 227 MA's), (Start: 29 @33413 has 1 MA's), (60, 33269), (65, 33260), (73, 33233), (82, 33149), (105, 32945), (110, 32897),

Gene: Zeuska_46 Start: 35568, Stop: 35089, Start Num: 33

Candidate Starts for Zeuska_46:

(14, 35640), (20, 35601), (Start: 33 @35568 has 208 MA's), (57, 35487), (65, 35466), (76, 35397), (88, 35334), (91, 35325), (108, 35178), (112, 35142),

Gene: Zimmer_47 Start: 34365, Stop: 33847, Start Num: 24

Candidate Starts for Zimmer_47:

(Start: 19 @34380 has 64 MA's), (Start: 24 @34365 has 227 MA's), (45, 34296), (65, 34257), (82, 34146), (105, 33948), (106, 33945),

Gene: Zolita_43 Start: 33085, Stop: 32549, Start Num: 32

Candidate Starts for Zolita_43:

(Start: 32 @33085 has 38 MA's), (62, 32950), (65, 32944), (92, 32800),

Gene: Zulu_53 Start: 32936, Stop: 32373, Start Num: 19

Candidate Starts for Zulu_53:

(6, 33035), (7, 33020), (Start: 19 @32936 has 64 MA's), (Start: 24 @32921 has 227 MA's), (76, 32711), (77, 32708), (92, 32645), (94, 32636), (105, 32483), (106, 32480),