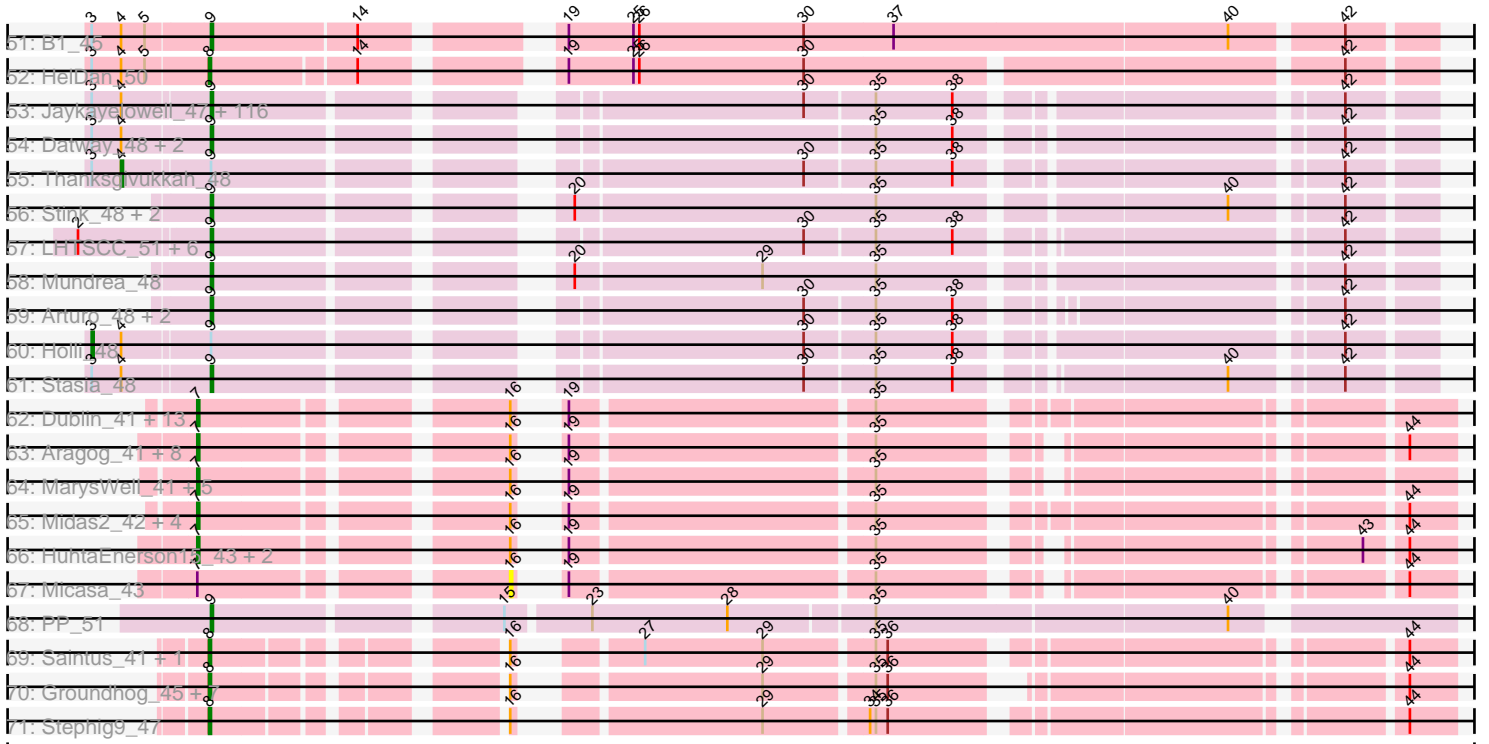


Pham 169555



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 169555 Report

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

Pham number 169555 has 453 members, 18 are drafts.

Phages represented in each track:

- Track 1 : Ruotula_50, Doom_47, PacerPaul_47, Agaliana_43, ILeeKay_51, Aeneas_49, Rubeus_47, Francis47_46, Gompeii16_46, PhrostyMug_46, Bircsak_46, Mule_44, Smairt_49, Marge_47, Perseus_47, Crispicous1_45, Rufus_48, JackSparrow_48, Petruccio_47, Marsha_47
- Track 2 : Licorice_50, BigPaolini_47
- Track 3 : Kugel_48, Forsytheast_47, Seanderson_49, Alvin_47, Lesedi_44, Pippin_49, Froghopper_45, Alsfro_51, LilBib_47, Monet_50, ShortQueendom_41, Niza_50, Hermia_48, Thor_45, Makemake_47, Bexan_46, KBG_49, Fajezeel_49, Beatrix_47, Zeeculate_45, StrongArm_47, Corvo_48, Sagefire_50, Chanagan_44, MPlant7149_46, Scowl_48, Greg_49, MaryBeth_47, SarFire_45, SwissCheese_49, Bruns_46, Moose_47, Ringer_48, MetalQZJ_46
- Track 4 : Slagathor_49, Bigfoot_43, PattyP_48, JuliaChild_48, BigMau_48, Edtherson_47, Kenmech_51, RidgeCB_47, Kykar_47, Watermelon_48, Rohr_48, Bob3_45, Arlo_45, Treddle_48, KyMonks1A_49, Rajelicia_48, Ciao_47, Swole_48, Lopton_48, Paraselene_45, TheloniousMonk_48, Pepe_44, Arcanine_48, Abrogate_460, TwoPeat_48, Jerm2_48, Zeuska_46, HermioneGrange_47, PSullivan_47, Dussy_49, Marcell_45, Hami1_40, Abbyshoes_50, BPBiabs31_48, Tote_43, Trip13t_47, Rhynn_46, Pita2_50, Mryolo_45, Acme_49, StewieG_46
- Track 5 : Sibs6_48, Blue_47, Burton_47, Rutherferd_49, Molly_48, Carlyle_46, Museum_48, Paphu_45, PascalRango_48, Petp2012_48
- Track 6 : Bxb1_43, Sandaddy_46, Zephyr_47, Solon_46, PherrisBueller_47, GrecoEtereo_48, Sanya_45, Jasper_49, HarryOW_46, Sorpresa_45, Pinto_47, QTRLifeCrisis_47, DrFeelGood_45, DD5_46, ConceptII_49, NEHalo_45, Sumter_44, Dreamboat_49, GageAP_48, Lockley_46
- Track 7 : BillKnuckles_47
- Track 8 : Papez_50, Euphoria_45
- Track 9 : AFIS_45, BaconJack_50, SpikeBT_47
- Track 10 : Switzer_48, U2_46, BeesKnees_48, Magnar_46, Kanely_48, Manatee_48, Gandalf20_49
- Track 11 : Hope4ever_49, BluSpix_46, Squee_47, Ichabod_49, McGuire_48, Trouble_49, Fenn_49, Homines_39, Eyeball_48, Smeagol_48, Naira_49, Nerujay_49, IgnatiusPatJac_47, Atkinbua_49
- Track 12 : Big3_46, Dexes_47, Pelly_46, Fushigi_45
- Track 13 : Anglerfish_48
- Track 14 : Ajay_47, Peterson_50
- Track 15 : Turj99_44, Buttons_45, Magnito_44, SkiPole_50, Adahisdi_46, Oogway_44, STLscum_48

- Track 16 : JC27_48, Briton15_49, Ashballer_48, Wheeler_47
- Track 17 : Cueylyss_48, Graduation_50, HanShotFirst_46, CactusRose_44, Gwendoluna_51, Bones_47
- Track 18 : Bethlehem_47, Pari_48, Altman_49
- Track 19 : Killigrew_47
- Track 20 : Snazzy_45, Lamina13_47, Dynamix_48, DreamCatcher_50, KSSJEB_46, Seabiscuit_49, Tasp14_48, PinkPlastic_46
- Track 21 : Sunshine924_48, Nhonho_48, Espresso_47, Barriga_48
- Track 22 : A6_43, BK1_43
- Track 23 : Michley_46
- Track 24 : Traft412_47
- Track 25 : Ohno789_48
- Track 26 : Violet_45
- Track 27 : Target_48
- Track 28 : Dulcie_47
- Track 29 : MrGordo_46
- Track 30 : Applejack_42
- Track 31 : Drake94_46, Trike_46, Poompha_47, Severus_46, KittenMittens_45, PeaceMeal1_46
- Track 32 : OKCentral2016_47, Chupacabra_47, Goose_48
- Track 33 : WalterMcMickey_46, Rebeuca_48, Twister_46, Topanga_46, Kristoff_48
- Track 34 : Eaglepride_49
- Track 35 : RhynO_49
- Track 36 : Edison31_47
- Track 37 : Rosalind_53, ShayRa_55
- Track 38 : Anon_50
- Track 39 : KatherineG_55, MinecraftSteve_55, Soups_55, DekHockey33_54, Switzerland_54, Battleship_56
- Track 40 : Kimona_49
- Track 41 : Giroux_51, SaturnRing_51, Pistachio_52, TNguyen7_51, Bugatti_51, BlueBird_52
- Track 42 : Heathen_50, Scout_50
- Track 43 : Idleandcovert_51, Puppy_52
- Track 44 : Hookmount_49, Pocahontas_49, Noella_49, Margo_49, QuinnKiro_48, Norbert_48, Veracruz_48, Lambert1_49, Caviar_49, Todacoro_49, Texage_48
- Track 45 : JF4_48, JF2_48, MK4_50, Isca_49, Rockstar_50
- Track 46 : Phantastic_51
- Track 47 : MA5_50
- Track 48 : Popcicle_49, ResDef_50, Panamaxus_47
- Track 49 : Fred313_50
- Track 50 : BabyRay_50
- Track 51 : B1_45
- Track 52 : HelDan_50
- Track 53 : Jaykayelowell_47, Relief_48, Morpher26_48, Xena_47, Cici_48, HamSlice_48, TroyPia_50, Wander_49, Clarenza_48, Sparxx_50, Eurydice_50, Baby16_49, Tinybot_48, LappelDuVide_48, Broseidon_49, Cocoaberry_49, Koreni_48, Perplexer_48, Gadost_49, Avle17_49, NotAPhaseMom_49, CentreCat_49, Cindaradix_46, BellusTerra_50, Lemur_49, Bruiser_48, JetBlade_49, Shaka_49, Houdini22_49, DirtyDunning_48, Iceman_49, Ohfah_50, Pumbaa_49, Badger_47, BubbleTrouble_48, Kingmustik0402_49, TinaFeyge_49, Kremtemulon_47, Florean_49, LeoAvram_49, Nemo27_49, PeterPeter_49, Roosevelt_48, MeeZee_49, Spino_48, Pipcraft_47, Dhanush_49, Polymorphads_50, Ruin_49, NorthStar_48, Blackmoor_49, Nebs_50, Alberto7_50, Bumblebee11_47,

KFPoly_48, Lunsford_50, Connomayer_49, Morrow_50, Romney_49, Camperdownii_47, Scamp_49, AbbysRanger_48, Backyardigan_47, Iracema64_50, Druantia_49, Maxo_50, Eros_49, Nyxis_49, LittleGuy_49, Eapen_49, Deano_48, Citius_49, PetiteSangsue_48, Phontbonne_49, Palestino_48, Kampy_49, Kyee_49, Funston_48, LochMonster_50, OKaNui_49, ICleared_49, Melvin_51, Wilbur_49, Chaph_49, Ulysses_48, Mazhar510_49, JoongJeon_48, TygerBlood_49, Millski_48, Phelipe_50, LittleB_49, Caelakin_49, Medusa_49, Phacado_49, Peaches_49, Sabertooth_49, Wizard007_49, Annyong_49, Skipitt_48, Bartimeaus_49, Burger_47, Albee_49, Wile_48, Flux_49, Cintron_48, Abdiel_49, Bombshell_49, Eris_48, Maverick_49, Achebe_47, Eagle_49, Katalie136_48, Commander_49, Lorenzo_49, TiroTheta9_49, Taquarus_49, YoSam321_49

- Track 54 : Datway_48, Noelle_49, Shygu2_48
- Track 55 : Thanksgivukkah_48
- Track 56 : Stink_48, AvatarAhPeg_47, Miramae_47
- Track 57 : LHTSCC_51, BangNhom_50, Obama12_50, Cerulean_50, Happiness_48, ChampagnePapi_51, SheldonCooper_51
- Track 58 : Mundrea_48
- Track 59 : Arturo_48, Kratak_49, Phighter1804_49
- Track 60 : Holli_48
- Track 61 : Stasia_48
- Track 62 : Dublin_41, Conspiracy_42, Naca_44, ElTiger69_44, Airmid_43, Tiger_41, Lev2_42, AgentM_41, Jovo_42, PetterN_46, Scorpio_46, Chadwick_46, Benedict_45, ForGetIt_42
- Track 63 : Aragog_41, Discoknowium_41, Milcery_43, Tarynearal_41, George_42, Phlorence_41, Cuco_42, Archetta_42, Swirley_45
- Track 64 : MarysWell_41, SydNat_44, Bluefalcon_41, Ghouboy_44, Theia_40, Zolita_43
- Track 65 : Midas2_42, PickleBack_42, Coog_42, Jabiru_43, UnionJack_43
- Track 66 : HuhtaEnerson15_43, LittleCherry_43, Bonamassa_43
- Track 67 : Micasa_43
- Track 68 : PP_51
- Track 69 : Saintus_41, NearlyHeadless_46
- Track 70 : Groundhog_45, Roary_47, Astro_46, Smeadley_47, Dixon_46, Expelliarmus_46, Danforth_46, Phillis_48
- Track 71 : Stephig9_47

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

The start number called the most often in the published annotations is 13, it was called in 193 of the 435 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A6_43, AFIS_45, Abbyshoes_50, Abrogate_460, Acme_49, Adahisdi_46, Aeneas_49, Agaliana_43, Ajay_47, Alsfro_51, Altman_49, Alvin_47, Anglerfish_48, Applejack_42, Arcanine_48, Arlo_45, Ashballer_48, Atkinbua_49, BK1_43, BPBiebs31_48, BaconJack_50, Barriga_48, Beatrix_47, BeesKnees_48, Bethlehem_47, Bexan_46, Big3_46, BigMau_48, BigPaolini_47, Bigfoot_43, BillKnuckles_47, Bircsak_46, BluSpix_46, Blue_47, Bob3_45, Bones_47, Briton15_49, Bruns_46, Burton_47, Buttons_45, Bxb1_43, CactusRose_44, Carlyle_46, Chanagan_44, Ciao_47, ConceptII_49, Corvo_48, Crispicus1_45,

Cueyllyss_48, DD5_46, Dexes_47, Doom_47, DrFeelGood_45, DreamCatcher_50, Dreamboat_49, Dulcie_47, Dussy_49, Dynamix_48, Edtherson_47, Espresso_47, Euphoria_45, Eyeball_48, Fajezeel_49, Fenn_49, Forsytheast_47, Francis47_46, Froghopper_45, Fushigi_45, GageAP_48, Gandalf20_49, Gompeii16_46, Graduation_50, GrecoEtereo_48, Greg_49, Gwendoluna_51, Hami1_40, HanShotFirst_46, HarryOW_46, Hermia_48, HermioneGrange_47, Homines_39, Hope4ever_49, ILeeKay_51, Ichabod_49, IgnatiusPatJac_47, JC27_48, JackSparrow_48, Jasper_49, Jerm2_48, JuliaChild_48, KBG_49, KSSJEB_46, Kanely_48, Kenmech_51, Killigrew_47, Kugel_48, KyMonks1A_49, Kykar_47, Lamina13_47, Lesedi_44, Licorice_50, LilBib_47, Lockley_46, Lopton_48, MPlant7149_46, Magnar_46, Magnito_44, Makemake_47, Manatee_48, Marcell_45, Marge_47, Marsha_47, MaryBeth_47, McGuire_48, MetalQZJ_46, Michley_46, Molly_48, Monet_50, Moose_47, MrGordo_46, Mryolo_45, Mule_44, Museum_48, NEHalo_45, Naira_49, Nerujay_49, Nhonho_48, Niza_50, Ohno789_48, Oogway_44, PSullivan_47, PacerPaul_47, Papez_50, Paphu_45, Paraselene_45, Pari_48, PascalRango_48, PattyP_48, Pelly_46, Pepe_44, Perseus_47, Peterson_50, Petp2012_48, Petruccio_47, PherrisBueller_47, PhrostyMug_46, PinkPlastic_46, Pinto_47, Pippin_49, Pita2_50, QTRLifeCrisis_47, Rajelicia_48, Rhynn_46, RidgeCB_47, Ringer_48, Rohr_48, Rubeus_47, Rufus_48, Ruotula_50, Rutherford_49, STLscum_48, Sagefire_50, Sandaddy_46, Sanya_45, SarFire_45, Scowl_48, Seabiscuit_49, Seanderson_49, ShortQueendom_41, Sibs6_48, SkiPole_50, Slagathor_49, Smairt_49, Smeagol_48, Snazzy_45, Solon_46, Sorpresa_45, SpikeBT_47, Squee_47, StewieG_46, StrongArm_47, Sumter_44, Sunshine924_48, SwissCheese_49, Switzer_48, Swole_48, Target_48, Tasp14_48, TheloniousMonk_48, Thor_45, Tote_43, Traft412_47, Treddle_48, Trip13t_47, Trouble_49, Turj99_44, TwoPeat_48, U2_46, Violet_45, Watermelon_48, Wheeler_47, Zeeculate_45, Zephyr_47, Zeuska_46,

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

-

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

- AbbysRanger_48, Abdiel_49, Achebe_47, AgentM_41, Airmid_43, Albee_49, Alberto7_50, Annyong_49, Anon_50, Aragog_41, Archetta_42, Arturo_48, Astro_46, AvatarAhPeg_47, Avle17_49, B1_45, Baby16_49, BabyRay_50, Backyardigan_47, Badger_47, BangNhom_50, Bartimeaus_49, Battleship_56, BellusTerra_50, Benedict_45, Blackmoor_49, BlueBird_52, Bluefalcon_41, Bombshell_49, Bonamassa_43, Broseidon_49, Bruiser_48, BubbleTrouble_48, Bugatti_51, Bumblebee11_47, Burger_47, Caelakin_49, Camperdownii_47, Caviar_49, CentreCat_49, Cerulean_50, Chadwick_46, ChampagnePapi_51, Chaph_49, Chupacabra_47, Cici_48, Cindaradix_46, Cintron_48, Citius_49, Clarenza_48, Cocoaberry_49, Commander_49, Connomayer_49, Conspiracy_42, Coog_42, Cuco_42, Danforth_46, Datway_48, Deano_48, DekHockey33_54, Dhanush_49, DirtyDunning_48, Discoknowium_41, Dixon_46, Drake94_46, Druantia_49, Dublin_41, Eagle_49, Eaglepride_49, Eapen_49, Edison31_47, EITiger69_44, Eris_48, Eros_49, Eurydice_50, Expelliarmus_46, Florean_49, Flux_49, ForGetIt_42, Fred313_50, Funston_48, Gadost_49, George_42, Ghoulyboy_44, Giroux_51, Goose_48, Groundhog_45, HamSlice_48, Happiness_48, Heathen_50, HelDan_50, Holli_48, Hookmount_49, Houdini22_49, HuhtaEnerson15_43, ICleared_49, Iceman_49, Idleandcovert_51, Iracema64_50, Isca_49, JF2_48, JF4_48, Jabiru_43, Jaykayelowell_47, JetBlade_49, JoongJeon_48, Jovo_42, KFPoly_48, Kampy_49, Katalie136_48, KatherineG_55, Kimona_49, Kingmustik0402_49, KittenMittens_45, Koreni_48, Kratak_49, Kremtemulon_47, Kristoff_48, Kye_49, LHTSCC_51,

Lambert1_49, LappelDuVide_48, Lemur_49, LeoAvram_49, Lev2_42, LittleB_49, LittleCherry_43, LittleGuy_49, LochMonster_50, Lorenzo_49, Lunsford_50, MA5_50, MK4_50, Margo_49, MarysWell_41, Maverick_49, Maxo_50, Mazhar510_49, Medusa_49, MeeZee_49, Melvin_51, Micasa_43, Midas2_42, Milcery_43, Millski_48, MinecraftSteve_55, Miramae_47, Morpher26_48, Morrow_50, Mundrea_48, Naca_44, NearlyHeadless_46, Nebs_50, Nemo27_49, Noella_49, Noelle_49, Norbert_48, NorthStar_48, NotAPhaseMom_49, Nyxis_49, OKCentral2016_47, OKaNui_49, Obama12_50, Ohfah_50, PP_51, Palestino_48, Panamaxus_47, PeaceMeal1_46, Peaches_49, Perplexer_48, PeterPeter_49, PetiteSangsue_48, PetterN_46, Phacado_49, Phantastic_51, Phelipe_50, Phighter1804_49, Phillis_48, Phlorence_41, Phontbonne_49, PickleBack_42, Pipcraft_47, Pistachio_52, Pocahontas_49, Polymorphads_50, Poompha_47, Popcicle_49, Pumbaa_49, Puppy_52, QuinnKiro_48, Rebeuca_48, Relief_48, ResDef_50, RhynO_49, Roary_47, Rockstar_50, Romney_49, Roosevelt_48, Rosalind_53, Ruin_49, Sabertooth_49, Saintus_41, SaturnRing_51, Scamp_49, Scorpia_46, Scout_50, Severus_46, Shaka_49, ShayRa_55, SheldonCooper_51, Shygu2_48, Skipitt_48, Smeadley_47, Soups_55, Sparxx_50, Spino_48, Stasia_48, Stepbig9_47, Stink_48, Swirley_45, Switzerland_54, SydNat_44, TNguyen7_51, Taquarus_49, Tarynearal_41, Texage_48, Thanksgivukkah_48, Theia_40, Tiger_41, TinaFeyge_49, Tinybot_48, TiroTheta9_49, Todacoro_49, Topanga_46, Trike_46, TroyPia_50, Twister_46, TygerBlood_49, Ulysses_48, UnionJack_43, Veracruz_48, WalterMcMickey_46, Wander_49, Wilbur_49, Wile_48, Wizard007_49, Xena_47, YoSam321_49, Zolita_43,

Summary by start number:

Start 3:

- Found in 159 of 453 (35.1%) of genes in pham
- Manual Annotations of this start: 1 of 435
- Called 0.6% of time when present
- Phage (with cluster) where this start called: Holli_48 (A4),

Start 4:

- Found in 159 of 453 (35.1%) of genes in pham
- Manual Annotations of this start: 2 of 435
- Called 1.3% of time when present
- Phage (with cluster) where this start called: Kimona_49 (A19), Thanksgivukkah_48 (A4),

Start 5:

- Found in 34 of 453 (7.5%) of genes in pham
- Manual Annotations of this start: 22 of 435
- Called 64.7% 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), Rockstar_50 (A3), Scout_50 (A3), Texage_48 (A3), Todacoro_49 (A3), Veracruz_48 (A3),

Start 7:

- Found in 38 of 453 (8.4%) of genes in pham
- Manual Annotations of this start: 37 of 435

- Called 97.4% 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), ElTiger69_44 (A5), ForGetIt_42 (A5), George_42 (A5), Ghoulyboy_44 (A5), HuhtaEnerson15_43 (A5), Jabiru_43 (A5), Jovo_42 (A5), Lev2_42 (A5), LittleCherry_43 (A5), MarysWell_41 (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 8:

- Found in 38 of 453 (8.4%) of genes in pham
- Manual Annotations of this start: 18 of 435
- Called 57.9% of time when present
- Phage (with cluster) where this start called: Astro_46 (A8), BlueBird_52 (A3), Bugatti_51 (A3), Danforth_46 (A8), Dixon_46 (A8), Expelliarmus_46 (A8), Fred313_50 (A3), Giroux_51 (A3), Groundhog_45 (A8), HelDan_50 (A3), NearlyHeadless_46 (A8), Panamaxus_47 (A3), Phillis_48 (A8), Pistachio_52 (A3), Popcicle_49 (A3), ResDef_50 (A3), Roary_47 (A8), Saintus_41 (A8), SaturnRing_51 (A3), Smeadley_47 (A8), StepHig9_47 (A8), TNguyen7_51 (A3),

Start 9:

- Found in 164 of 453 (36.2%) of genes in pham
- Manual Annotations of this start: 153 of 435
- Called 94.5% 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), Druantia_49 (A4), 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), Funston_48 (A4), Gadost_49 (A4), Goose_48 (A10), 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), Kampy_49 (A4), Katalie136_48 (A4), Kingmustik0402_49 (A4), KittenMittens_45 (A10), Koreni_48 (A4), Kratark_49 (A4), Kremtemulon_47 (A4), Kristoff_48 (A10), Kyee_49 (A4), LHTSCC_51 (A4), LappelDuVide_48 (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), Ruin_49 (A4), Sabertooth_49 (A4), Scamp_49 (A4), Severus_46 (A10), Shaka_49 (A4), SheldonCooper_51 (A4), Shygu2_48 (A4), Skipitt_48 (A4), Sparxx_50 (A4), Spino_48 (A4), Stasia_48 (A4), Stink_48 (A4), Taquarus_49 (A4), TinaFeyge_49 (A4), Tinybot_48 (A4), TiroTheta9_49 (A4), Topanga_46 (A10), 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 11:

- Found in 9 of 453 (2.0%) of genes in pham
- Manual Annotations of this start: 9 of 435
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon_50 (A15), Battleship_56 (A15), DekHockey33_54 (A15), KatherineG_55 (A15), MinecraftSteve_55 (A15), Rosalind_53 (A15), ShayRa_55 (A15), Soups_55 (A15), Switzerland_54 (A15),

Start 13:

- Found in 204 of 453 (45.0%) of genes in pham
- Manual Annotations of this start: 193 of 435
- 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_46 (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), Conceptll_49 (A1), Corvo_48 (A1), Crispicous1_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), 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_51 (A1), Hami1_40 (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), JC27_48 (A1), JackSparrow_48 (A1), Jasper_49 (A1), Jerm2_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), Marge_47 (A1), Marsha_47 (A1), MaryBeth_47 (A1), McGuire_48 (A1), MetaQZJ_46 (A1), Michley_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), Ohno789_48 (A1), Oogway_44 (A1), PSullivan_47 (A1), PacerPaul_47 (A1), Papez_50 (A1), Paphu_45 (A1), Paraselene_45 (A1), Pari_48 (A1), PascalRango_48 (A1), PattyP_48 (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), 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_45 (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), TheloniousMonk_48 (A1), Thor_45 (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), Zeeculate_45 (A1), Zephyr_47 (A1), Zeuska_46 (A1),

Start 16:

- Found in 49 of 453 (10.8%) of genes in pham
- No Manual Annotations of this start.
- Called 2.0% of time when present
- Phage (with cluster) where this start called: Micasa_43 (A5),

Summary by clusters:

There are 9 clusters represented in this pham: A15, A10, A19, A1, A3, A5, A4, A7, A8,

Info for manual annotations of cluster A1:

- Start number 13 was manually annotated 193 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 9 was manually annotated 17 times for cluster A10.

Info for manual annotations of cluster A15:

- Start number 11 was manually annotated 9 times for cluster A15.

Info for manual annotations of cluster A19:

- Start number 4 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A3:

- Start number 5 was manually annotated 22 times for cluster A3.
- Start number 8 was manually annotated 7 times for cluster A3.
- Start number 9 was manually annotated 2 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 3 was manually annotated 1 time for cluster A4.
- Start number 4 was manually annotated 1 time for cluster A4.
- Start number 9 was manually annotated 133 times for cluster A4.

Info for manual annotations of cluster A5:

•Start number 7 was manually annotated 37 times for cluster A5.

Info for manual annotations of cluster A7:

•Start number 9 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A8:

•Start number 8 was manually annotated 11 times for cluster A8.

Gene Information:

Gene: A6_43 Start: 34340, Stop: 33849, Start Num: 13

Candidate Starts for A6_43:

(6, 34412), (10, 34373), (Start: 13 @34340 has 193 MA's), (18, 34259), (23, 34238), (32, 34130), (37, 34097), (41, 33938), (42, 33902),

Gene: AFIS_45 Start: 35135, Stop: 34641, Start Num: 13

Candidate Starts for AFIS_45:

(Start: 13 @35135 has 193 MA's), (18, 35054), (23, 35033), (32, 34925), (35, 34901), (37, 34892), (41, 34733), (42, 34697),

Gene: AbbysRanger_48 Start: 33378, Stop: 32839, Start Num: 9

Candidate Starts for AbbysRanger_48:

(Start: 3 @33435 has 1 MA's), (Start: 4 @33420 has 2 MA's), (Start: 9 @33378 has 153 MA's), (30, 33120), (35, 33087), (38, 33048), (42, 32880),

Gene: Abbysshoes_50 Start: 35780, Stop: 35289, Start Num: 13

Candidate Starts for Abbysshoes_50:

(6, 35852), (10, 35813), (Start: 13 @35780 has 193 MA's), (18, 35699), (23, 35678), (28, 35609), (35, 35546), (37, 35537), (41, 35378), (42, 35342),

Gene: Abdiel_49 Start: 33389, Stop: 32850, Start Num: 9

Candidate Starts for Abdiel_49:

(Start: 3 @33446 has 1 MA's), (Start: 4 @33431 has 2 MA's), (Start: 9 @33389 has 153 MA's), (30, 33131), (35, 33098), (38, 33059), (42, 32891),

Gene: Abrogate_460 Start: 35795, Stop: 35316, Start Num: 13

Candidate Starts for Abrogate_460:

(6, 35867), (10, 35828), (Start: 13 @35795 has 193 MA's), (18, 35714), (23, 35693), (28, 35624), (35, 35561), (37, 35552), (41, 35405), (42, 35369),

Gene: Achebe_47 Start: 33361, Stop: 32822, Start Num: 9

Candidate Starts for Achebe_47:

(Start: 3 @33418 has 1 MA's), (Start: 4 @33403 has 2 MA's), (Start: 9 @33361 has 153 MA's), (30, 33103), (35, 33070), (38, 33031), (42, 32863),

Gene: Acme_49 Start: 35657, Stop: 35166, Start Num: 13

Candidate Starts for Acme_49:

(6, 35729), (10, 35690), (Start: 13 @35657 has 193 MA's), (18, 35576), (23, 35555), (28, 35486), (35, 35423), (37, 35414), (41, 35255), (42, 35219),

Gene: Adahisdi_46 Start: 35135, Stop: 34644, Start Num: 13

Candidate Starts for Adahisdi_46:

(Start: 13 @35135 has 193 MA's), (18, 35054), (23, 35033), (35, 34901), (37, 34892), (41, 34733), (42, 34697),

Gene: Aeneas_49 Start: 35748, Stop: 35269, Start Num: 13

Candidate Starts for Aeneas_49:

(6, 35820), (10, 35781), (Start: 13 @35748 has 193 MA's), (18, 35667), (23, 35646), (28, 35577), (32, 35538), (35, 35514), (37, 35505), (41, 35358), (42, 35322),

Gene: Agaliana_43 Start: 32395, Stop: 31904, Start Num: 13

Candidate Starts for Agaliana_43:

(6, 32467), (10, 32428), (Start: 13 @32395 has 193 MA's), (18, 32314), (23, 32293), (28, 32224), (32, 32185), (35, 32161), (37, 32152), (41, 31993), (42, 31957),

Gene: AgentM_41 Start: 32065, Stop: 31532, Start Num: 7

Candidate Starts for AgentM_41:

(Start: 7 @32065 has 37 MA's), (16, 31933), (19, 31927), (35, 31783),

Gene: Airmid_43 Start: 32100, Stop: 31576, Start Num: 7

Candidate Starts for Airmid_43:

(Start: 7 @32100 has 37 MA's), (16, 31968), (19, 31962), (35, 31818),

Gene: Ajay_47 Start: 35453, Stop: 34962, Start Num: 13

Candidate Starts for Ajay_47:

(Start: 13 @35453 has 193 MA's), (18, 35372), (23, 35351), (28, 35282), (35, 35219), (37, 35210), (41, 35051), (42, 35015),

Gene: Albee_49 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Albee_49:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Alberto7_50 Start: 33725, Stop: 33186, Start Num: 9

Candidate Starts for Alberto7_50:

(Start: 3 @33782 has 1 MA's), (Start: 4 @33767 has 2 MA's), (Start: 9 @33725 has 153 MA's), (30, 33467), (35, 33434), (38, 33395), (42, 33227),

Gene: Alsfro_51 Start: 35855, Stop: 35364, Start Num: 13

Candidate Starts for Alsfro_51:

(6, 35927), (10, 35888), (Start: 13 @35855 has 193 MA's), (18, 35774), (23, 35753), (35, 35621), (37, 35612), (41, 35453), (42, 35417),

Gene: Altman_49 Start: 36087, Stop: 35596, Start Num: 13

Candidate Starts for Altman_49:

(Start: 13 @36087 has 193 MA's), (18, 36006), (23, 35985), (35, 35853), (37, 35844), (41, 35685), (42, 35649),

Gene: Alvin_47 Start: 36107, Stop: 35616, Start Num: 13

Candidate Starts for Alvin_47:

(6, 36179), (10, 36140), (Start: 13 @36107 has 193 MA's), (18, 36026), (23, 36005), (35, 35873), (37, 35864), (41, 35705), (42, 35669),

Gene: Anglerfish_48 Start: 35637, Stop: 35146, Start Num: 13

Candidate Starts for Anglerfish_48:

(Start: 13 @35637 has 193 MA's), (18, 35556), (23, 35535), (28, 35466), (35, 35403), (37, 35394), (41, 35235), (42, 35199),

Gene: Annyong_49 Start: 33433, Stop: 32894, Start Num: 9

Candidate Starts for Annyong_49:

(Start: 3 @33490 has 1 MA's), (Start: 4 @33475 has 2 MA's), (Start: 9 @33433 has 153 MA's), (30, 33175), (35, 33142), (38, 33103), (42, 32935),

Gene: Anon_50 Start: 32020, Stop: 31481, Start Num: 11

Candidate Starts for Anon_50:

(Start: 11 @32020 has 9 MA's), (20, 31894), (35, 31747), (42, 31534), (45, 31501),

Gene: Applejack_42 Start: 32017, Stop: 31538, Start Num: 13

Candidate Starts for Applejack_42:

(6, 32089), (10, 32050), (Start: 13 @32017 has 193 MA's), (18, 31936), (28, 31846), (35, 31783), (37, 31774), (41, 31627), (42, 31591),

Gene: Aragog_41 Start: 32083, Stop: 31556, Start Num: 7

Candidate Starts for Aragog_41:

(Start: 7 @32083 has 37 MA's), (16, 31948), (19, 31942), (35, 31798), (44, 31579),

Gene: Arcanine_48 Start: 35327, Stop: 34836, Start Num: 13

Candidate Starts for Arcanine_48:

(6, 35399), (10, 35360), (Start: 13 @35327 has 193 MA's), (18, 35246), (23, 35225), (28, 35156), (35, 35093), (37, 35084), (41, 34925), (42, 34889),

Gene: Archetta_42 Start: 32613, Stop: 32086, Start Num: 7

Candidate Starts for Archetta_42:

(Start: 7 @32613 has 37 MA's), (16, 32478), (19, 32472), (35, 32328), (44, 32109),

Gene: Arlo_45 Start: 34984, Stop: 34493, Start Num: 13

Candidate Starts for Arlo_45:

(6, 35056), (10, 35017), (Start: 13 @34984 has 193 MA's), (18, 34903), (23, 34882), (28, 34813), (35, 34750), (37, 34741), (41, 34582), (42, 34546),

Gene: Arturo_48 Start: 33662, Stop: 33129, Start Num: 9

Candidate Starts for Arturo_48:

(Start: 9 @33662 has 153 MA's), (30, 33404), (35, 33371), (38, 33332), (42, 33170),

Gene: Ashballer_48 Start: 36113, Stop: 35622, Start Num: 13

Candidate Starts for Ashballer_48:

(Start: 13 @36113 has 193 MA's), (18, 36032), (23, 36011), (28, 35942), (35, 35879), (37, 35870), (41, 35711), (42, 35675),

Gene: Astro_46 Start: 31898, Stop: 31377, Start Num: 8

Candidate Starts for Astro_46:

(Start: 8 @31898 has 18 MA's), (16, 31781), (29, 31682), (35, 31631), (36, 31625), (44, 31400),

Gene: Atkinbua_49 Start: 35740, Stop: 35249, Start Num: 13

Candidate Starts for Atkinbua_49:

(Start: 13 @35740 has 193 MA's), (18, 35659), (23, 35638), (35, 35506), (37, 35497), (41, 35338), (42, 35302),

Gene: AvatarAhPeg_47 Start: 33169, Stop: 32621, Start Num: 9

Candidate Starts for AvatarAhPeg_47:

(Start: 9 @33169 has 153 MA's), (20, 33022), (35, 32872), (40, 32710), (42, 32662),

Gene: Avle17_49 Start: 33385, Stop: 32846, Start Num: 9

Candidate Starts for Avle17_49:

(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: B1_45 Start: 31865, Stop: 31290, Start Num: 9

Candidate Starts for B1_45:

(Start: 3 @31922 has 1 MA's), (Start: 4 @31907 has 2 MA's), (Start: 5 @31895 has 22 MA's), (Start: 9 @31865 has 153 MA's), (14, 31793), (19, 31715), (25, 31682), (26, 31679), (30, 31595), (37, 31550), (40, 31382), (42, 31331),

Gene: BK1_43 Start: 34340, Stop: 33849, Start Num: 13

Candidate Starts for BK1_43:

(6, 34412), (10, 34373), (Start: 13 @34340 has 193 MA's), (18, 34259), (23, 34238), (32, 34130), (37, 34097), (41, 33938), (42, 33902),

Gene: BPBiebs31_48 Start: 35699, Stop: 35208, Start Num: 13

Candidate Starts for BPBiebs31_48:

(6, 35771), (10, 35732), (Start: 13 @35699 has 193 MA's), (18, 35618), (23, 35597), (28, 35528), (35, 35465), (37, 35456), (41, 35297), (42, 35261),

Gene: Baby16_49 Start: 33399, Stop: 32860, Start Num: 9

Candidate Starts for Baby16_49:

(Start: 3 @33456 has 1 MA's), (Start: 4 @33441 has 2 MA's), (Start: 9 @33399 has 153 MA's), (30, 33141), (35, 33108), (38, 33069), (42, 32901),

Gene: BabyRay_50 Start: 33653, Stop: 33060, Start Num: 5

Candidate Starts for BabyRay_50:

(Start: 3 @33680 has 1 MA's), (Start: 4 @33665 has 2 MA's), (Start: 5 @33653 has 22 MA's), (Start: 8 @33623 has 18 MA's), (14, 33554), (19, 33476), (25, 33443), (26, 33440), (30, 33356), (34, 33323), (42, 33101),

Gene: Backyardigan_47 Start: 33394, Stop: 32855, Start Num: 9

Candidate Starts for Backyardigan_47:

(Start: 3 @33451 has 1 MA's), (Start: 4 @33436 has 2 MA's), (Start: 9 @33394 has 153 MA's), (30, 33136), (35, 33103), (38, 33064), (42, 32896),

Gene: BaconJack_50 Start: 36404, Stop: 35910, Start Num: 13

Candidate Starts for BaconJack_50:

(Start: 13 @36404 has 193 MA's), (18, 36323), (23, 36302), (32, 36194), (35, 36170), (37, 36161), (41, 35999), (42, 35963),

Gene: Badger_47 Start: 33362, Stop: 32823, Start Num: 9

Candidate Starts for Badger_47:

(Start: 3 @33419 has 1 MA's), (Start: 4 @33404 has 2 MA's), (Start: 9 @33362 has 153 MA's), (30, 33104), (35, 33071), (38, 33032), (42, 32864),

Gene: BangNhom_50 Start: 33807, Stop: 33271, Start Num: 9
Candidate Starts for BangNhom_50:
(2, 33870), (Start: 9 @33807 has 153 MA's), (30, 33549), (35, 33516), (38, 33477), (42, 33312),

Gene: Barriga_48 Start: 35242, Stop: 34751, Start Num: 13
Candidate Starts for Barriga_48:
(Start: 13 @35242 has 193 MA's), (18, 35161), (23, 35140), (35, 35008), (37, 34999), (41, 34840), (42, 34804),

Gene: Bartimeaus_49 Start: 33390, Stop: 32851, Start Num: 9
Candidate Starts for Bartimeaus_49:
(Start: 3 @33447 has 1 MA's), (Start: 4 @33432 has 2 MA's), (Start: 9 @33390 has 153 MA's), (30, 33132), (35, 33099), (38, 33060), (42, 32892),

Gene: Battleship_56 Start: 33029, Stop: 32463, Start Num: 11
Candidate Starts for Battleship_56:
(Start: 11 @33029 has 9 MA's), (12, 33023), (17, 32918), (23, 32891), (24, 32888), (31, 32777), (33, 32756), (35, 32747), (37, 32738), (42, 32519),

Gene: Beatrix_47 Start: 36955, Stop: 36464, Start Num: 13
Candidate Starts for Beatrix_47:
(6, 37027), (10, 36988), (Start: 13 @36955 has 193 MA's), (18, 36874), (23, 36853), (35, 36721), (37, 36712), (41, 36553), (42, 36517),

Gene: BeesKnees_48 Start: 35448, Stop: 34954, Start Num: 13
Candidate Starts for BeesKnees_48:
(Start: 13 @35448 has 193 MA's), (18, 35367), (23, 35346), (32, 35238), (35, 35214), (37, 35205), (41, 35046), (42, 35010),

Gene: BellusTerra_50 Start: 33389, Stop: 32850, Start Num: 9
Candidate Starts for BellusTerra_50:
(Start: 3 @33446 has 1 MA's), (Start: 4 @33431 has 2 MA's), (Start: 9 @33389 has 153 MA's), (30, 33131), (35, 33098), (38, 33059), (42, 32891),

Gene: Benedict_45 Start: 32275, Stop: 31751, Start Num: 7
Candidate Starts for Benedict_45:
(Start: 7 @32275 has 37 MA's), (16, 32143), (19, 32137), (35, 31993),

Gene: Bethlehem_47 Start: 36106, Stop: 35615, Start Num: 13
Candidate Starts for Bethlehem_47:
(Start: 13 @36106 has 193 MA's), (18, 36025), (23, 36004), (35, 35872), (37, 35863), (41, 35704), (42, 35668),

Gene: Bexan_46 Start: 36633, Stop: 36142, Start Num: 13
Candidate Starts for Bexan_46:
(6, 36705), (10, 36666), (Start: 13 @36633 has 193 MA's), (18, 36552), (23, 36531), (35, 36399), (37, 36390), (41, 36231), (42, 36195),

Gene: Big3_46 Start: 35559, Stop: 35068, Start Num: 13
Candidate Starts for Big3_46:
(Start: 13 @35559 has 193 MA's), (18, 35478), (23, 35457), (35, 35325), (37, 35316), (41, 35157), (42, 35121),

Gene: BigMau_48 Start: 35214, Stop: 34723, Start Num: 13

Candidate Starts for BigMau_48:

(6, 35286), (10, 35247), (Start: 13 @35214 has 193 MA's), (18, 35133), (23, 35112), (28, 35043), (35, 34980), (37, 34971), (41, 34812), (42, 34776),

Gene: BigPaolini_47 Start: 34397, Stop: 33906, Start Num: 13

Candidate Starts for BigPaolini_47:

(6, 34469), (10, 34430), (Start: 13 @34397 has 193 MA's), (18, 34316), (23, 34295), (28, 34226), (35, 34163), (37, 34154), (42, 33959),

Gene: Bigfoot_43 Start: 34618, Stop: 34127, Start Num: 13

Candidate Starts for Bigfoot_43:

(6, 34690), (10, 34651), (Start: 13 @34618 has 193 MA's), (18, 34537), (23, 34516), (28, 34447), (35, 34384), (37, 34375), (41, 34216), (42, 34180),

Gene: BillKnuckles_47 Start: 36158, Stop: 35667, Start Num: 13

Candidate Starts for BillKnuckles_47:

(Start: 13 @36158 has 193 MA's), (18, 36077), (23, 36056), (28, 35987), (32, 35948), (35, 35924), (37, 35915), (41, 35756), (42, 35720),

Gene: Bircsak_46 Start: 35971, Stop: 35480, Start Num: 13

Candidate Starts for Bircsak_46:

(6, 36043), (10, 36004), (Start: 13 @35971 has 193 MA's), (18, 35890), (23, 35869), (28, 35800), (32, 35761), (35, 35737), (37, 35728), (41, 35569), (42, 35533),

Gene: Blackmoor_49 Start: 33390, Stop: 32851, Start Num: 9

Candidate Starts for Blackmoor_49:

(Start: 3 @33447 has 1 MA's), (Start: 4 @33432 has 2 MA's), (Start: 9 @33390 has 153 MA's), (30, 33132), (35, 33099), (38, 33060), (42, 32892),

Gene: BluSpix_46 Start: 31820, Stop: 31326, Start Num: 13

Candidate Starts for BluSpix_46:

(Start: 13 @31820 has 193 MA's), (18, 31739), (23, 31718), (35, 31586), (37, 31577), (41, 31418), (42, 31382),

Gene: Blue_47 Start: 35881, Stop: 35390, Start Num: 13

Candidate Starts for Blue_47:

(Start: 13 @35881 has 193 MA's), (18, 35800), (23, 35779), (28, 35710), (35, 35647), (37, 35638), (41, 35479), (42, 35443),

Gene: BlueBird_52 Start: 33721, Stop: 33158, Start Num: 8

Candidate Starts for BlueBird_52:

(Start: 3 @33778 has 1 MA's), (Start: 4 @33763 has 2 MA's), (Start: 5 @33751 has 22 MA's), (Start: 8 @33721 has 18 MA's), (14, 33652), (19, 33574), (26, 33538), (30, 33454), (42, 33199),

Gene: Bluefalcon_41 Start: 32577, Stop: 32050, Start Num: 7

Candidate Starts for Bluefalcon_41:

(Start: 7 @32577 has 37 MA's), (16, 32442), (19, 32436), (35, 32292),

Gene: Bob3_45 Start: 34564, Stop: 34073, Start Num: 13

Candidate Starts for Bob3_45:

(6, 34636), (10, 34597), (Start: 13 @34564 has 193 MA's), (18, 34483), (23, 34462), (28, 34393), (35, 34330), (37, 34321), (41, 34162), (42, 34126),

Gene: Bombshell_49 Start: 33385, Stop: 32846, Start Num: 9

Candidate Starts for Bombshell_49:

(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: Bonamassa_43 Start: 32602, Stop: 32075, Start Num: 7

Candidate Starts for Bonamassa_43:

(Start: 7 @32602 has 37 MA's), (16, 32467), (19, 32461), (35, 32317), (43, 32116), (44, 32098),

Gene: Bones_47 Start: 35893, Stop: 35402, Start Num: 13

Candidate Starts for Bones_47:

(Start: 13 @35893 has 193 MA's), (18, 35812), (23, 35791), (28, 35722), (32, 35683), (35, 35659), (37, 35650), (41, 35491), (42, 35455),

Gene: Briton15_49 Start: 35674, Stop: 35183, Start Num: 13

Candidate Starts for Briton15_49:

(Start: 13 @35674 has 193 MA's), (18, 35593), (23, 35572), (28, 35503), (35, 35440), (37, 35431), (41, 35272), (42, 35236),

Gene: Broseidon_49 Start: 33390, Stop: 32851, Start Num: 9

Candidate Starts for Broseidon_49:

(Start: 3 @33447 has 1 MA's), (Start: 4 @33432 has 2 MA's), (Start: 9 @33390 has 153 MA's), (30, 33132), (35, 33099), (38, 33060), (42, 32892),

Gene: Bruiser_48 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Bruiser_48:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Bruns_46 Start: 35176, Stop: 34685, Start Num: 13

Candidate Starts for Bruns_46:

(6, 35248), (10, 35209), (Start: 13 @35176 has 193 MA's), (18, 35095), (23, 35074), (35, 34942), (37, 34933), (41, 34774), (42, 34738),

Gene: BubbleTrouble_48 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for BubbleTrouble_48:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Bugatti_51 Start: 33721, Stop: 33158, Start Num: 8

Candidate Starts for Bugatti_51:

(Start: 3 @33778 has 1 MA's), (Start: 4 @33763 has 2 MA's), (Start: 5 @33751 has 22 MA's), (Start: 8 @33721 has 18 MA's), (14, 33652), (19, 33574), (26, 33538), (30, 33454), (42, 33199),

Gene: Bumblebee11_47 Start: 33364, Stop: 32825, Start Num: 9

Candidate Starts for Bumblebee11_47:

(Start: 3 @33421 has 1 MA's), (Start: 4 @33406 has 2 MA's), (Start: 9 @33364 has 153 MA's), (30, 33106), (35, 33073), (38, 33034), (42, 32866),

Gene: Burger_47 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Burger_47:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Burton_47 Start: 35109, Stop: 34618, Start Num: 13

Candidate Starts for Burton_47:

(Start: 13 @35109 has 193 MA's), (18, 35028), (23, 35007), (28, 34938), (35, 34875), (37, 34866), (41, 34707), (42, 34671),

Gene: Buttons_45 Start: 33856, Stop: 33365, Start Num: 13

Candidate Starts for Buttons_45:

(Start: 13 @33856 has 193 MA's), (18, 33775), (23, 33754), (35, 33622), (37, 33613), (41, 33454), (42, 33418),

Gene: Bxb1_43 Start: 34921, Stop: 34430, Start Num: 13

Candidate Starts for Bxb1_43:

(6, 34993), (10, 34954), (Start: 13 @34921 has 193 MA's), (18, 34840), (23, 34819), (32, 34711), (35, 34687), (37, 34678), (41, 34519), (42, 34483),

Gene: CactusRose_44 Start: 34746, Stop: 34255, Start Num: 13

Candidate Starts for CactusRose_44:

(Start: 13 @34746 has 193 MA's), (18, 34665), (23, 34644), (28, 34575), (32, 34536), (35, 34512), (37, 34503), (41, 34344), (42, 34308),

Gene: Caelakin_49 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Caelakin_49:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Camperdownii_47 Start: 33062, Stop: 32523, Start Num: 9

Candidate Starts for Camperdownii_47:

(Start: 3 @33119 has 1 MA's), (Start: 4 @33104 has 2 MA's), (Start: 9 @33062 has 153 MA's), (30, 32804), (35, 32771), (38, 32732), (42, 32564),

Gene: Carlyle_46 Start: 33607, Stop: 33113, Start Num: 13

Candidate Starts for Carlyle_46:

(Start: 13 @33607 has 193 MA's), (18, 33526), (23, 33505), (28, 33436), (35, 33373), (37, 33364), (41, 33205), (42, 33169),

Gene: Caviar_49 Start: 33695, Stop: 33096, Start Num: 5

Candidate Starts for Caviar_49:

(Start: 3 @33722 has 1 MA's), (Start: 4 @33707 has 2 MA's), (Start: 5 @33695 has 22 MA's), (Start: 8 @33665 has 18 MA's), (14, 33596), (19, 33518), (30, 33398), (42, 33137),

Gene: CentreCat_49 Start: 33391, Stop: 32852, Start Num: 9

Candidate Starts for CentreCat_49:

(Start: 3 @33448 has 1 MA's), (Start: 4 @33433 has 2 MA's), (Start: 9 @33391 has 153 MA's), (30, 33133), (35, 33100), (38, 33061), (42, 32893),

Gene: Cerulean_50 Start: 33808, Stop: 33272, Start Num: 9

Candidate Starts for Cerulean_50:

(2, 33871), (Start: 9 @33808 has 153 MA's), (30, 33550), (35, 33517), (38, 33478), (42, 33313),

Gene: Chadwick_46 Start: 32252, Stop: 31728, Start Num: 7
Candidate Starts for Chadwick_46:
(Start: 7 @32252 has 37 MA's), (16, 32120), (19, 32114), (35, 31970),

Gene: ChampagnePapi_51 Start: 33807, Stop: 33271, Start Num: 9
Candidate Starts for ChampagnePapi_51:
(2, 33870), (Start: 9 @33807 has 153 MA's), (30, 33549), (35, 33516), (38, 33477), (42, 33312),

Gene: Chanagan_44 Start: 34413, Stop: 33922, Start Num: 13
Candidate Starts for Chanagan_44:
(6, 34485), (10, 34446), (Start: 13 @34413 has 193 MA's), (18, 34332), (23, 34311), (35, 34179), (37, 34170), (41, 34011), (42, 33975),

Gene: Chaph_49 Start: 33399, Stop: 32860, Start Num: 9
Candidate Starts for Chaph_49:
(Start: 3 @33456 has 1 MA's), (Start: 4 @33441 has 2 MA's), (Start: 9 @33399 has 153 MA's), (30, 33141), (35, 33108), (38, 33069), (42, 32901),

Gene: Chupacabra_47 Start: 33046, Stop: 32486, Start Num: 9
Candidate Starts for Chupacabra_47:
(Start: 9 @33046 has 153 MA's), (14, 32974), (25, 32860), (26, 32857), (33, 32749), (35, 32740), (42, 32533),

Gene: Ciao_47 Start: 35564, Stop: 35061, Start Num: 13
Candidate Starts for Ciao_47:
(6, 35636), (10, 35597), (Start: 13 @35564 has 193 MA's), (18, 35483), (23, 35462), (28, 35393), (35, 35330), (37, 35321), (41, 35153), (42, 35117),

Gene: Cici_48 Start: 33379, Stop: 32840, Start Num: 9
Candidate Starts for Cici_48:
(Start: 3 @33436 has 1 MA's), (Start: 4 @33421 has 2 MA's), (Start: 9 @33379 has 153 MA's), (30, 33121), (35, 33088), (38, 33049), (42, 32881),

Gene: Cindaradix_46 Start: 33000, Stop: 32467, Start Num: 9
Candidate Starts for Cindaradix_46:
(Start: 3 @33057 has 1 MA's), (Start: 4 @33042 has 2 MA's), (Start: 9 @33000 has 153 MA's), (30, 32742), (35, 32709), (38, 32670), (42, 32508),

Gene: Cintron_48 Start: 33365, Stop: 32829, Start Num: 9
Candidate Starts for Cintron_48:
(Start: 3 @33422 has 1 MA's), (Start: 4 @33407 has 2 MA's), (Start: 9 @33365 has 153 MA's), (30, 33107), (35, 33074), (38, 33035), (42, 32870),

Gene: Citius_49 Start: 33409, Stop: 32870, Start Num: 9
Candidate Starts for Citius_49:
(Start: 3 @33466 has 1 MA's), (Start: 4 @33451 has 2 MA's), (Start: 9 @33409 has 153 MA's), (30, 33151), (35, 33118), (38, 33079), (42, 32911),

Gene: Clarenza_48 Start: 33385, Stop: 32846, Start Num: 9
Candidate Starts for Clarenza_48:
(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: Cocoaberry_49 Start: 33392, Stop: 32853, Start Num: 9

Candidate Starts for Cocoaberry_49:

(Start: 3 @33449 has 1 MA's), (Start: 4 @33434 has 2 MA's), (Start: 9 @33392 has 153 MA's), (30, 33134), (35, 33101), (38, 33062), (42, 32894),

Gene: Commander_49 Start: 33387, Stop: 32848, Start Num: 9

Candidate Starts for Commander_49:

(Start: 3 @33444 has 1 MA's), (Start: 4 @33429 has 2 MA's), (Start: 9 @33387 has 153 MA's), (30, 33129), (35, 33096), (38, 33057), (42, 32889),

Gene: ConceptII_49 Start: 36256, Stop: 35765, Start Num: 13

Candidate Starts for ConceptII_49:

(6, 36328), (10, 36289), (Start: 13 @36256 has 193 MA's), (18, 36175), (23, 36154), (32, 36046), (35, 36022), (37, 36013), (41, 35854), (42, 35818),

Gene: Connomayer_49 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Connomayer_49:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Conspiracy_42 Start: 32307, Stop: 31774, Start Num: 7

Candidate Starts for Conspiracy_42:

(Start: 7 @32307 has 37 MA's), (16, 32175), (19, 32169), (35, 32025),

Gene: Coog_42 Start: 32408, Stop: 31872, Start Num: 7

Candidate Starts for Coog_42:

(Start: 7 @32408 has 37 MA's), (16, 32273), (19, 32267), (35, 32123), (44, 31895),

Gene: Corvo_48 Start: 36116, Stop: 35625, Start Num: 13

Candidate Starts for Corvo_48:

(6, 36188), (10, 36149), (Start: 13 @36116 has 193 MA's), (18, 36035), (23, 36014), (35, 35882), (37, 35873), (41, 35714), (42, 35678),

Gene: Crispicous1_45 Start: 34739, Stop: 34248, Start Num: 13

Candidate Starts for Crispicous1_45:

(6, 34811), (10, 34772), (Start: 13 @34739 has 193 MA's), (18, 34658), (23, 34637), (28, 34568), (32, 34529), (35, 34505), (37, 34496), (41, 34337), (42, 34301),

Gene: Cuco_42 Start: 32356, Stop: 31829, Start Num: 7

Candidate Starts for Cuco_42:

(Start: 7 @32356 has 37 MA's), (16, 32221), (19, 32215), (35, 32071), (44, 31852),

Gene: Cueyllyss_48 Start: 37026, Stop: 36535, Start Num: 13

Candidate Starts for Cueyllyss_48:

(Start: 13 @37026 has 193 MA's), (18, 36945), (23, 36924), (28, 36855), (32, 36816), (35, 36792), (37, 36783), (41, 36624), (42, 36588),

Gene: DD5_46 Start: 36122, Stop: 35631, Start Num: 13

Candidate Starts for DD5_46:

(6, 36194), (10, 36155), (Start: 13 @36122 has 193 MA's), (18, 36041), (23, 36020), (32, 35912), (35, 35888), (37, 35879), (41, 35720), (42, 35684),

Gene: Danforth_46 Start: 31927, Stop: 31406, Start Num: 8

Candidate Starts for Danforth_46:

(Start: 8 @31927 has 18 MA's), (16, 31810), (29, 31711), (35, 31660), (36, 31654), (44, 31429),

Gene: Datway_48 Start: 33350, Stop: 32811, Start Num: 9

Candidate Starts for Datway_48:

(Start: 3 @33407 has 1 MA's), (Start: 4 @33392 has 2 MA's), (Start: 9 @33350 has 153 MA's), (35, 33059), (38, 33020), (42, 32852),

Gene: Deano_48 Start: 33396, Stop: 32857, Start Num: 9

Candidate Starts for Deano_48:

(Start: 3 @33453 has 1 MA's), (Start: 4 @33438 has 2 MA's), (Start: 9 @33396 has 153 MA's), (30, 33138), (35, 33105), (38, 33066), (42, 32898),

Gene: DekHockey33_54 Start: 33050, Stop: 32484, Start Num: 11

Candidate Starts for DekHockey33_54:

(Start: 11 @33050 has 9 MA's), (12, 33044), (17, 32939), (23, 32912), (24, 32909), (31, 32798), (33, 32777), (35, 32768), (37, 32759), (42, 32540),

Gene: Dexes_47 Start: 36156, Stop: 35665, Start Num: 13

Candidate Starts for Dexes_47:

(Start: 13 @36156 has 193 MA's), (18, 36075), (23, 36054), (35, 35922), (37, 35913), (41, 35754), (42, 35718),

Gene: Dhanush_49 Start: 33391, Stop: 32852, Start Num: 9

Candidate Starts for Dhanush_49:

(Start: 3 @33448 has 1 MA's), (Start: 4 @33433 has 2 MA's), (Start: 9 @33391 has 153 MA's), (30, 33133), (35, 33100), (38, 33061), (42, 32893),

Gene: DirtyDunning_48 Start: 33403, Stop: 32870, Start Num: 9

Candidate Starts for DirtyDunning_48:

(Start: 3 @33460 has 1 MA's), (Start: 4 @33445 has 2 MA's), (Start: 9 @33403 has 153 MA's), (30, 33145), (35, 33112), (38, 33073), (42, 32911),

Gene: Discoknowium_41 Start: 32092, Stop: 31565, Start Num: 7

Candidate Starts for Discoknowium_41:

(Start: 7 @32092 has 37 MA's), (16, 31957), (19, 31951), (35, 31807), (44, 31588),

Gene: Dixon_46 Start: 31800, Stop: 31279, Start Num: 8

Candidate Starts for Dixon_46:

(Start: 8 @31800 has 18 MA's), (16, 31683), (29, 31584), (35, 31533), (36, 31527), (44, 31302),

Gene: Doom_47 Start: 35900, Stop: 35409, Start Num: 13

Candidate Starts for Doom_47:

(6, 35972), (10, 35933), (Start: 13 @35900 has 193 MA's), (18, 35819), (23, 35798), (28, 35729), (32, 35690), (35, 35666), (37, 35657), (41, 35498), (42, 35462),

Gene: DrFeelGood_45 Start: 35584, Stop: 35093, Start Num: 13

Candidate Starts for DrFeelGood_45:

(6, 35656), (10, 35617), (Start: 13 @35584 has 193 MA's), (18, 35503), (23, 35482), (32, 35374), (35, 35350), (37, 35341), (41, 35182), (42, 35146),

Gene: Drake94_46 Start: 32305, Stop: 31757, Start Num: 9

Candidate Starts for Drake94_46:

(Start: 9 @32305 has 153 MA's), (14, 32236), (21, 32152), (22, 32149), (25, 32131), (26, 32128), (30, 32044), (35, 32011), (42, 31804),

Gene: DreamCatcher_50 Start: 36623, Stop: 36132, Start Num: 13

Candidate Starts for DreamCatcher_50:

(Start: 13 @36623 has 193 MA's), (18, 36542), (23, 36521), (35, 36389), (37, 36380), (39, 36329), (41, 36221), (42, 36185),

Gene: Dreamboat_49 Start: 35340, Stop: 34837, Start Num: 13

Candidate Starts for Dreamboat_49:

(6, 35412), (10, 35373), (Start: 13 @35340 has 193 MA's), (18, 35259), (23, 35238), (32, 35130), (35, 35106), (37, 35097), (41, 34929), (42, 34893),

Gene: Druantia_49 Start: 33391, Stop: 32852, Start Num: 9

Candidate Starts for Druantia_49:

(Start: 3 @33448 has 1 MA's), (Start: 4 @33433 has 2 MA's), (Start: 9 @33391 has 153 MA's), (30, 33133), (35, 33100), (38, 33061), (42, 32893),

Gene: Dublin_41 Start: 32129, Stop: 31593, Start Num: 7

Candidate Starts for Dublin_41:

(Start: 7 @32129 has 37 MA's), (16, 31994), (19, 31988), (35, 31844),

Gene: Dulcie_47 Start: 35420, Stop: 34929, Start Num: 13

Candidate Starts for Dulcie_47:

(Start: 13 @35420 has 193 MA's), (18, 35339), (23, 35318), (28, 35249), (32, 35210), (35, 35186), (37, 35177), (42, 34982),

Gene: Dussy_49 Start: 35800, Stop: 35309, Start Num: 13

Candidate Starts for Dussy_49:

(6, 35872), (10, 35833), (Start: 13 @35800 has 193 MA's), (18, 35719), (23, 35698), (28, 35629), (35, 35566), (37, 35557), (41, 35398), (42, 35362),

Gene: Dynamix_48 Start: 35419, Stop: 34928, Start Num: 13

Candidate Starts for Dynamix_48:

(Start: 13 @35419 has 193 MA's), (18, 35338), (23, 35317), (35, 35185), (37, 35176), (39, 35125), (41, 35017), (42, 34981),

Gene: Eagle_49 Start: 33413, Stop: 32874, Start Num: 9

Candidate Starts for Eagle_49:

(Start: 3 @33470 has 1 MA's), (Start: 4 @33455 has 2 MA's), (Start: 9 @33413 has 153 MA's), (30, 33155), (35, 33122), (38, 33083), (42, 32915),

Gene: Eaglepride_49 Start: 33105, Stop: 32554, Start Num: 9

Candidate Starts for Eaglepride_49:

(1, 33174), (Start: 9 @33105 has 153 MA's), (22, 32946), (35, 32808), (42, 32601),

Gene: Eapen_49 Start: 33383, Stop: 32844, Start Num: 9

Candidate Starts for Eapen_49:

(Start: 3 @33440 has 1 MA's), (Start: 4 @33425 has 2 MA's), (Start: 9 @33383 has 153 MA's), (30, 33125), (35, 33092), (38, 33053), (42, 32885),

Gene: Edison31_47 Start: 33061, Stop: 32510, Start Num: 9

Candidate Starts for Edison31_47:

(Start: 9 @33061 has 153 MA's), (14, 32992), (25, 32884), (26, 32881), (30, 32797), (33, 32773), (35, 32764), (37, 32755), (42, 32557),

Gene: Edtherson_47 Start: 36064, Stop: 35573, Start Num: 13

Candidate Starts for Edtherson_47:

(6, 36136), (10, 36097), (Start: 13 @36064 has 193 MA's), (18, 35983), (23, 35962), (28, 35893), (35, 35830), (37, 35821), (41, 35662), (42, 35626),

Gene: EITiger69_44 Start: 32269, Stop: 31745, Start Num: 7

Candidate Starts for EITiger69_44:

(Start: 7 @32269 has 37 MA's), (16, 32137), (19, 32131), (35, 31987),

Gene: Eris_48 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Eris_48:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Eros_49 Start: 33390, Stop: 32851, Start Num: 9

Candidate Starts for Eros_49:

(Start: 3 @33447 has 1 MA's), (Start: 4 @33432 has 2 MA's), (Start: 9 @33390 has 153 MA's), (30, 33132), (35, 33099), (38, 33060), (42, 32892),

Gene: Espresso_47 Start: 35666, Stop: 35175, Start Num: 13

Candidate Starts for Espresso_47:

(Start: 13 @35666 has 193 MA's), (18, 35585), (23, 35564), (35, 35432), (37, 35423), (41, 35264), (42, 35228),

Gene: Euphoria_45 Start: 34917, Stop: 34426, Start Num: 13

Candidate Starts for Euphoria_45:

(Start: 13 @34917 has 193 MA's), (18, 34836), (23, 34815), (28, 34746), (32, 34707), (35, 34683), (37, 34674), (41, 34515), (42, 34479),

Gene: Eurydice_50 Start: 33385, Stop: 32846, Start Num: 9

Candidate Starts for Eurydice_50:

(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: Expelliarmus_46 Start: 31956, Stop: 31435, Start Num: 8

Candidate Starts for Expelliarmus_46:

(Start: 8 @31956 has 18 MA's), (16, 31839), (29, 31740), (35, 31689), (36, 31683), (44, 31458),

Gene: Eyeball_48 Start: 35803, Stop: 35312, Start Num: 13

Candidate Starts for Eyeball_48:

(Start: 13 @35803 has 193 MA's), (18, 35722), (23, 35701), (35, 35569), (37, 35560), (41, 35401), (42, 35365),

Gene: Fajezeel_49 Start: 35913, Stop: 35422, Start Num: 13

Candidate Starts for Fajezeel_49:

(6, 35985), (10, 35946), (Start: 13 @35913 has 193 MA's), (18, 35832), (23, 35811), (35, 35679), (37, 35670), (41, 35511), (42, 35475),

Gene: Fenn_49 Start: 37378, Stop: 36884, Start Num: 13

Candidate Starts for Fenn_49:

(Start: 13 @37378 has 193 MA's), (18, 37297), (23, 37276), (35, 37144), (37, 37135), (41, 36976), (42, 36940),

Gene: Florean_49 Start: 33387, Stop: 32848, Start Num: 9

Candidate Starts for Florean_49:

(Start: 3 @33444 has 1 MA's), (Start: 4 @33429 has 2 MA's), (Start: 9 @33387 has 153 MA's), (30, 33129), (35, 33096), (38, 33057), (42, 32889),

Gene: Flux_49 Start: 33387, Stop: 32848, Start Num: 9

Candidate Starts for Flux_49:

(Start: 3 @33444 has 1 MA's), (Start: 4 @33429 has 2 MA's), (Start: 9 @33387 has 153 MA's), (30, 33129), (35, 33096), (38, 33057), (42, 32889),

Gene: ForGetIt_42 Start: 32332, Stop: 31799, Start Num: 7

Candidate Starts for ForGetIt_42:

(Start: 7 @32332 has 37 MA's), (16, 32200), (19, 32194), (35, 32050),

Gene: Forsytheast_47 Start: 35394, Stop: 34903, Start Num: 13

Candidate Starts for Forsytheast_47:

(6, 35466), (10, 35427), (Start: 13 @35394 has 193 MA's), (18, 35313), (23, 35292), (35, 35160), (37, 35151), (41, 34992), (42, 34956),

Gene: Francis47_46 Start: 36239, Stop: 35748, Start Num: 13

Candidate Starts for Francis47_46:

(6, 36311), (10, 36272), (Start: 13 @36239 has 193 MA's), (18, 36158), (23, 36137), (28, 36068), (32, 36029), (35, 36005), (37, 35996), (41, 35837), (42, 35801),

Gene: Fred313_50 Start: 33287, Stop: 32724, Start Num: 8

Candidate Starts for Fred313_50:

(Start: 3 @33338 has 1 MA's), (Start: 4 @33323 has 2 MA's), (Start: 5 @33311 has 22 MA's), (Start: 8 @33287 has 18 MA's), (14, 33218), (19, 33140), (25, 33107), (26, 33104), (30, 33020), (42, 32765),

Gene: Froghopper_45 Start: 34909, Stop: 34418, Start Num: 13

Candidate Starts for Froghopper_45:

(6, 34981), (10, 34942), (Start: 13 @34909 has 193 MA's), (18, 34828), (23, 34807), (35, 34675), (37, 34666), (41, 34507), (42, 34471),

Gene: Funston_48 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Funston_48:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Fushigi_45 Start: 33557, Stop: 33066, Start Num: 13

Candidate Starts for Fushigi_45:

(Start: 13 @33557 has 193 MA's), (18, 33476), (23, 33455), (35, 33323), (37, 33314), (41, 33155), (42, 33119),

Gene: Gadost_49 Start: 33392, Stop: 32853, Start Num: 9

Candidate Starts for Gadost_49:

(Start: 3 @33449 has 1 MA's), (Start: 4 @33434 has 2 MA's), (Start: 9 @33392 has 153 MA's), (30, 33134), (35, 33101), (38, 33062), (42, 32894),

Gene: GageAP_48 Start: 35709, Stop: 35215, Start Num: 13

Candidate Starts for GageAP_48:

(6, 35781), (10, 35742), (Start: 13 @35709 has 193 MA's), (18, 35628), (23, 35607), (32, 35499), (35, 35475), (37, 35466), (41, 35307), (42, 35271),

Gene: Gandalf20_49 Start: 36393, Stop: 35902, Start Num: 13

Candidate Starts for Gandalf20_49:

(Start: 13 @36393 has 193 MA's), (18, 36312), (23, 36291), (32, 36183), (35, 36159), (37, 36150), (41, 35991), (42, 35955),

Gene: George_42 Start: 32544, Stop: 32017, Start Num: 7

Candidate Starts for George_42:

(Start: 7 @32544 has 37 MA's), (16, 32409), (19, 32403), (35, 32259), (44, 32040),

Gene: Ghouboy_44 Start: 33072, Stop: 32536, Start Num: 7

Candidate Starts for Ghouboy_44:

(Start: 7 @33072 has 37 MA's), (16, 32937), (19, 32931), (35, 32787),

Gene: Giroux_51 Start: 33720, Stop: 33157, Start Num: 8

Candidate Starts for Giroux_51:

(Start: 3 @33777 has 1 MA's), (Start: 4 @33762 has 2 MA's), (Start: 5 @33750 has 22 MA's), (Start: 8 @33720 has 18 MA's), (14, 33651), (19, 33573), (26, 33537), (30, 33453), (42, 33198),

Gene: Gompeii16_46 Start: 35972, Stop: 35481, Start Num: 13

Candidate Starts for Gompeii16_46:

(6, 36044), (10, 36005), (Start: 13 @35972 has 193 MA's), (18, 35891), (23, 35870), (28, 35801), (32, 35762), (35, 35738), (37, 35729), (41, 35570), (42, 35534),

Gene: Goose_48 Start: 32859, Stop: 32299, Start Num: 9

Candidate Starts for Goose_48:

(Start: 9 @32859 has 153 MA's), (14, 32787), (25, 32673), (26, 32670), (33, 32562), (35, 32553), (42, 32346),

Gene: Graduation_50 Start: 37122, Stop: 36631, Start Num: 13

Candidate Starts for Graduation_50:

(Start: 13 @37122 has 193 MA's), (18, 37041), (23, 37020), (28, 36951), (32, 36912), (35, 36888), (37, 36879), (41, 36720), (42, 36684),

Gene: GrecoEtereo_48 Start: 35721, Stop: 35230, Start Num: 13

Candidate Starts for GrecoEtereo_48:

(6, 35793), (10, 35754), (Start: 13 @35721 has 193 MA's), (18, 35640), (23, 35619), (32, 35511), (35, 35487), (37, 35478), (41, 35319), (42, 35283),

Gene: Greg_49 Start: 35913, Stop: 35422, Start Num: 13

Candidate Starts for Greg_49:

(6, 35985), (10, 35946), (Start: 13 @35913 has 193 MA's), (18, 35832), (23, 35811), (35, 35679), (37, 35670), (41, 35511), (42, 35475),

Gene: Groundhog_45 Start: 31854, Stop: 31342, Start Num: 8

Candidate Starts for Groundhog_45:

(Start: 8 @31854 has 18 MA's), (16, 31737), (29, 31638), (35, 31587), (36, 31581), (44, 31365),

Gene: Gwendoluna_51 Start: 37558, Stop: 37067, Start Num: 13

Candidate Starts for Gwendoluna_51:

(Start: 13 @37558 has 193 MA's), (18, 37477), (23, 37456), (28, 37387), (32, 37348), (35, 37324), (37, 37315), (41, 37156), (42, 37120),

Gene: HamSlice_48 Start: 33386, Stop: 32847, Start Num: 9

Candidate Starts for HamSlice_48:

(Start: 3 @33443 has 1 MA's), (Start: 4 @33428 has 2 MA's), (Start: 9 @33386 has 153 MA's), (30, 33128), (35, 33095), (38, 33056), (42, 32888),

Gene: Hami1_40 Start: 30016, Stop: 29537, Start Num: 13

Candidate Starts for Hami1_40:

(6, 30088), (10, 30049), (Start: 13 @30016 has 193 MA's), (18, 29935), (23, 29914), (28, 29845), (35, 29782), (37, 29773), (41, 29626), (42, 29590),

Gene: HanShotFirst_46 Start: 34746, Stop: 34255, Start Num: 13

Candidate Starts for HanShotFirst_46:

(Start: 13 @34746 has 193 MA's), (18, 34665), (23, 34644), (28, 34575), (32, 34536), (35, 34512), (37, 34503), (41, 34344), (42, 34308),

Gene: Happiness_48 Start: 33390, Stop: 32854, Start Num: 9

Candidate Starts for Happiness_48:

(2, 33453), (Start: 9 @33390 has 153 MA's), (30, 33132), (35, 33099), (38, 33060), (42, 32895),

Gene: HarryOW_46 Start: 34893, Stop: 34402, Start Num: 13

Candidate Starts for HarryOW_46:

(6, 34965), (10, 34926), (Start: 13 @34893 has 193 MA's), (18, 34812), (23, 34791), (32, 34683), (35, 34659), (37, 34650), (41, 34491), (42, 34455),

Gene: Heathen_50 Start: 33373, Stop: 32780, Start Num: 5

Candidate Starts for Heathen_50:

(Start: 3 @33400 has 1 MA's), (Start: 4 @33385 has 2 MA's), (Start: 5 @33373 has 22 MA's), (Start: 8 @33343 has 18 MA's), (14, 33274), (19, 33196), (25, 33163), (26, 33160), (30, 33076), (42, 32821),

Gene: HelDan_50 Start: 33595, Stop: 33032, Start Num: 8

Candidate Starts for HelDan_50:

(Start: 3 @33652 has 1 MA's), (Start: 4 @33637 has 2 MA's), (Start: 5 @33625 has 22 MA's), (Start: 8 @33595 has 18 MA's), (14, 33526), (19, 33448), (25, 33415), (26, 33412), (30, 33328), (42, 33073),

Gene: Hermia_48 Start: 36340, Stop: 35849, Start Num: 13

Candidate Starts for Hermia_48:

(6, 36412), (10, 36373), (Start: 13 @36340 has 193 MA's), (18, 36259), (23, 36238), (35, 36106), (37, 36097), (41, 35938), (42, 35902),

Gene: HermioneGrange_47 Start: 35708, Stop: 35217, Start Num: 13

Candidate Starts for HermioneGrange_47:

(6, 35780), (10, 35741), (Start: 13 @35708 has 193 MA's), (18, 35627), (23, 35606), (28, 35537), (35, 35474), (37, 35465), (41, 35306), (42, 35270),

Gene: Holli_48 Start: 33235, Stop: 32639, Start Num: 3

Candidate Starts for Holli_48:

(Start: 3 @33235 has 1 MA's), (Start: 4 @33220 has 2 MA's), (Start: 9 @33178 has 153 MA's), (30, 32920), (35, 32887), (38, 32848), (42, 32680),

Gene: Homines_39 Start: 31549, Stop: 31058, Start Num: 13

Candidate Starts for Homines_39:

(Start: 13 @31549 has 193 MA's), (18, 31468), (23, 31447), (35, 31315), (37, 31306), (41, 31147), (42, 31111),

Gene: Hookmount_49 Start: 33696, Stop: 33097, Start Num: 5

Candidate Starts for Hookmount_49:

(Start: 3 @33723 has 1 MA's), (Start: 4 @33708 has 2 MA's), (Start: 5 @33696 has 22 MA's), (Start: 8 @33666 has 18 MA's), (14, 33597), (19, 33519), (30, 33399), (42, 33138),

Gene: Hope4ever_49 Start: 36165, Stop: 35674, Start Num: 13

Candidate Starts for Hope4ever_49:

(Start: 13 @36165 has 193 MA's), (18, 36084), (23, 36063), (35, 35931), (37, 35922), (41, 35763), (42, 35727),

Gene: Houdini22_49 Start: 33392, Stop: 32853, Start Num: 9

Candidate Starts for Houdini22_49:

(Start: 3 @33449 has 1 MA's), (Start: 4 @33434 has 2 MA's), (Start: 9 @33392 has 153 MA's), (30, 33134), (35, 33101), (38, 33062), (42, 32894),

Gene: HuhtaEnerson15_43 Start: 32535, Stop: 32008, Start Num: 7

Candidate Starts for HuhtaEnerson15_43:

(Start: 7 @32535 has 37 MA's), (16, 32400), (19, 32394), (35, 32250), (43, 32049), (44, 32031),

Gene: ICleared_49 Start: 33417, Stop: 32878, Start Num: 9

Candidate Starts for ICleared_49:

(Start: 3 @33474 has 1 MA's), (Start: 4 @33459 has 2 MA's), (Start: 9 @33417 has 153 MA's), (30, 33159), (35, 33126), (38, 33087), (42, 32919),

Gene: ILeeKay_51 Start: 36502, Stop: 36011, Start Num: 13

Candidate Starts for ILeeKay_51:

(6, 36574), (10, 36535), (Start: 13 @36502 has 193 MA's), (18, 36421), (23, 36400), (28, 36331), (32, 36292), (35, 36268), (37, 36259), (41, 36100), (42, 36064),

Gene: Iceman_49 Start: 33674, Stop: 33135, Start Num: 9

Candidate Starts for Iceman_49:

(Start: 3 @33731 has 1 MA's), (Start: 4 @33716 has 2 MA's), (Start: 9 @33674 has 153 MA's), (30, 33416), (35, 33383), (38, 33344), (42, 33176),

Gene: Ichabod_49 Start: 35764, Stop: 35270, Start Num: 13

Candidate Starts for Ichabod_49:

(Start: 13 @35764 has 193 MA's), (18, 35683), (23, 35662), (35, 35530), (37, 35521), (41, 35362), (42, 35326),

Gene: Idleandcovert_51 Start: 33751, Stop: 33158, Start Num: 5

Candidate Starts for Idleandcovert_51:

(Start: 3 @33778 has 1 MA's), (Start: 4 @33763 has 2 MA's), (Start: 5 @33751 has 22 MA's), (Start: 8 @33721 has 18 MA's), (14, 33652), (19, 33574), (26, 33538), (30, 33454), (42, 33199),

Gene: IgnatiusPatJac_47 Start: 35765, Stop: 35271, Start Num: 13

Candidate Starts for IgnatiusPatJac_47:

(Start: 13 @35765 has 193 MA's), (18, 35684), (23, 35663), (35, 35531), (37, 35522), (41, 35363), (42, 35327),

Gene: Iracema64_50 Start: 33652, Stop: 33113, Start Num: 9

Candidate Starts for Iracema64_50:

(Start: 3 @33709 has 1 MA's), (Start: 4 @33694 has 2 MA's), (Start: 9 @33652 has 153 MA's), (30, 33394), (35, 33361), (38, 33322), (42, 33154),

Gene: Isca_49 Start: 33194, Stop: 32589, Start Num: 5

Candidate Starts for Isca_49:

(Start: 3 @33221 has 1 MA's), (Start: 4 @33206 has 2 MA's), (Start: 5 @33194 has 22 MA's), (Start: 9 @33164 has 153 MA's), (14, 33092), (19, 33014), (25, 32981), (26, 32978), (30, 32894), (37, 32849), (40, 32681), (42, 32630),

Gene: JC27_48 Start: 35809, Stop: 35318, Start Num: 13

Candidate Starts for JC27_48:

(Start: 13 @35809 has 193 MA's), (18, 35728), (23, 35707), (28, 35638), (35, 35575), (37, 35566), (41, 35407), (42, 35371),

Gene: JF2_48 Start: 31895, Stop: 31290, Start Num: 5

Candidate Starts for JF2_48:

(Start: 3 @31922 has 1 MA's), (Start: 4 @31907 has 2 MA's), (Start: 5 @31895 has 22 MA's), (Start: 9 @31865 has 153 MA's), (14, 31793), (19, 31715), (25, 31682), (26, 31679), (30, 31595), (37, 31550), (40, 31382), (42, 31331),

Gene: JF4_48 Start: 31895, Stop: 31290, Start Num: 5

Candidate Starts for JF4_48:

(Start: 3 @31922 has 1 MA's), (Start: 4 @31907 has 2 MA's), (Start: 5 @31895 has 22 MA's), (Start: 9 @31865 has 153 MA's), (14, 31793), (19, 31715), (25, 31682), (26, 31679), (30, 31595), (37, 31550), (40, 31382), (42, 31331),

Gene: Jabiru_43 Start: 32142, Stop: 31618, Start Num: 7

Candidate Starts for Jabiru_43:

(Start: 7 @32142 has 37 MA's), (16, 32010), (19, 32004), (35, 31860), (44, 31641),

Gene: JackSparrow_48 Start: 35944, Stop: 35465, Start Num: 13

Candidate Starts for JackSparrow_48:

(6, 36016), (10, 35977), (Start: 13 @35944 has 193 MA's), (18, 35863), (23, 35842), (28, 35773), (32, 35734), (35, 35710), (37, 35701), (41, 35554), (42, 35518),

Gene: Jasper_49 Start: 35226, Stop: 34723, Start Num: 13

Candidate Starts for Jasper_49:

(6, 35298), (10, 35259), (Start: 13 @35226 has 193 MA's), (18, 35145), (23, 35124), (32, 35016), (35, 34992), (37, 34983), (41, 34815), (42, 34779),

Gene: Jaykayelowell_47 Start: 33381, Stop: 32842, Start Num: 9

Candidate Starts for Jaykayelowell_47:

(Start: 3 @33438 has 1 MA's), (Start: 4 @33423 has 2 MA's), (Start: 9 @33381 has 153 MA's), (30, 33123), (35, 33090), (38, 33051), (42, 32883),

Gene: Jerm2_48 Start: 35963, Stop: 35472, Start Num: 13

Candidate Starts for Jerm2_48:

(6, 36035), (10, 35996), (Start: 13 @35963 has 193 MA's), (18, 35882), (23, 35861), (28, 35792), (35, 35729), (37, 35720), (41, 35561), (42, 35525),

Gene: JetBlade_49 Start: 33382, Stop: 32843, Start Num: 9

Candidate Starts for JetBlade_49:

(Start: 3 @33439 has 1 MA's), (Start: 4 @33424 has 2 MA's), (Start: 9 @33382 has 153 MA's), (30, 33124), (35, 33091), (38, 33052), (42, 32884),

Gene: JoongJeon_48 Start: 33385, Stop: 32846, Start Num: 9

Candidate Starts for JoongJeon_48:

(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: Jovo_42 Start: 32588, Stop: 32055, Start Num: 7

Candidate Starts for Jovo_42:

(Start: 7 @32588 has 37 MA's), (16, 32456), (19, 32450), (35, 32306),

Gene: JuliaChild_48 Start: 35588, Stop: 35097, Start Num: 13

Candidate Starts for JuliaChild_48:

(6, 35660), (10, 35621), (Start: 13 @35588 has 193 MA's), (18, 35507), (23, 35486), (28, 35417), (35, 35354), (37, 35345), (41, 35186), (42, 35150),

Gene: KBG_49 Start: 36909, Stop: 36418, Start Num: 13

Candidate Starts for KBG_49:

(6, 36981), (10, 36942), (Start: 13 @36909 has 193 MA's), (18, 36828), (23, 36807), (35, 36675), (37, 36666), (41, 36507), (42, 36471),

Gene: KFPoly_48 Start: 33382, Stop: 32843, Start Num: 9

Candidate Starts for KFPoly_48:

(Start: 3 @33439 has 1 MA's), (Start: 4 @33424 has 2 MA's), (Start: 9 @33382 has 153 MA's), (30, 33124), (35, 33091), (38, 33052), (42, 32884),

Gene: KSSJEB_46 Start: 35208, Stop: 34714, Start Num: 13

Candidate Starts for KSSJEB_46:

(Start: 13 @35208 has 193 MA's), (18, 35127), (23, 35106), (35, 34974), (37, 34965), (39, 34914), (41, 34806), (42, 34770),

Gene: Kampy_49 Start: 33390, Stop: 32851, Start Num: 9

Candidate Starts for Kampy_49:

(Start: 3 @33447 has 1 MA's), (Start: 4 @33432 has 2 MA's), (Start: 9 @33390 has 153 MA's), (30, 33132), (35, 33099), (38, 33060), (42, 32892),

Gene: Kanely_48 Start: 35863, Stop: 35372, Start Num: 13

Candidate Starts for Kanely_48:

(Start: 13 @35863 has 193 MA's), (18, 35782), (23, 35761), (32, 35653), (35, 35629), (37, 35620), (41, 35461), (42, 35425),

Gene: Katalie136_48 Start: 33364, Stop: 32825, Start Num: 9

Candidate Starts for Katalie136_48:

(Start: 3 @33421 has 1 MA's), (Start: 4 @33406 has 2 MA's), (Start: 9 @33364 has 153 MA's), (30, 33106), (35, 33073), (38, 33034), (42, 32866),

Gene: KatherineG_55 Start: 33020, Stop: 32460, Start Num: 11

Candidate Starts for KatherineG_55:

(Start: 11 @33020 has 9 MA's), (12, 33014), (17, 32915), (23, 32888), (24, 32885), (31, 32774), (33, 32753), (35, 32744), (37, 32735), (42, 32516),

Gene: Kenmech_51 Start: 36926, Stop: 36435, Start Num: 13

Candidate Starts for Kenmech_51:

(6, 36998), (10, 36959), (Start: 13 @36926 has 193 MA's), (18, 36845), (23, 36824), (28, 36755), (35, 36692), (37, 36683), (41, 36524), (42, 36488),

Gene: Killigrew_47 Start: 35642, Stop: 35133, Start Num: 13

Candidate Starts for Killigrew_47:

(6, 35714), (10, 35675), (Start: 13 @35642 has 193 MA's), (18, 35561), (23, 35540), (35, 35408), (37, 35399), (42, 35204),

Gene: Kimona_49 Start: 32039, Stop: 31437, Start Num: 4

Candidate Starts for Kimona_49:

(Start: 3 @32054 has 1 MA's), (Start: 4 @32039 has 2 MA's), (Start: 9 @31997 has 153 MA's), (19, 31844), (27, 31805), (28, 31763), (30, 31724), (35, 31694), (42, 31478),

Gene: Kingmustik0402_49 Start: 33377, Stop: 32838, Start Num: 9

Candidate Starts for Kingmustik0402_49:

(Start: 3 @33434 has 1 MA's), (Start: 4 @33419 has 2 MA's), (Start: 9 @33377 has 153 MA's), (30, 33119), (35, 33086), (38, 33047), (42, 32879),

Gene: KittenMittens_45 Start: 32313, Stop: 31765, Start Num: 9

Candidate Starts for KittenMittens_45:

(Start: 9 @32313 has 153 MA's), (14, 32244), (21, 32160), (22, 32157), (25, 32139), (26, 32136), (30, 32052), (35, 32019), (42, 31812),

Gene: Koreni_48 Start: 33069, Stop: 32530, Start Num: 9

Candidate Starts for Koreni_48:

(Start: 3 @33126 has 1 MA's), (Start: 4 @33111 has 2 MA's), (Start: 9 @33069 has 153 MA's), (30, 32811), (35, 32778), (38, 32739), (42, 32571),

Gene: Kratak_49 Start: 33545, Stop: 33012, Start Num: 9

Candidate Starts for Kratak_49:

(Start: 9 @33545 has 153 MA's), (30, 33287), (35, 33254), (38, 33215), (42, 33053),

Gene: Kremtemulon_47 Start: 33336, Stop: 32800, Start Num: 9

Candidate Starts for Kremtemulon_47:

(Start: 3 @33393 has 1 MA's), (Start: 4 @33378 has 2 MA's), (Start: 9 @33336 has 153 MA's), (30, 33078), (35, 33045), (38, 33006), (42, 32841),

Gene: Kristoff_48 Start: 33413, Stop: 32862, Start Num: 9

Candidate Starts for Kristoff_48:

(Start: 9 @33413 has 153 MA's), (14, 33344), (26, 33233), (30, 33149), (33, 33125), (35, 33116), (37, 33107), (42, 32909),

Gene: Kugel_48 Start: 35883, Stop: 35392, Start Num: 13

Candidate Starts for Kugel_48:

(6, 35955), (10, 35916), (Start: 13 @35883 has 193 MA's), (18, 35802), (23, 35781), (35, 35649), (37, 35640), (41, 35481), (42, 35445),

Gene: KyMonks1A_49 Start: 35782, Stop: 35288, Start Num: 13

Candidate Starts for KyMonks1A_49:

(6, 35854), (10, 35815), (Start: 13 @35782 has 193 MA's), (18, 35701), (23, 35680), (28, 35611), (35, 35548), (37, 35539), (41, 35377), (42, 35341),

Gene: Kyee_49 Start: 33386, Stop: 32847, Start Num: 9

Candidate Starts for Kyee_49:

(Start: 3 @33443 has 1 MA's), (Start: 4 @33428 has 2 MA's), (Start: 9 @33386 has 153 MA's), (30, 33128), (35, 33095), (38, 33056), (42, 32888),

Gene: Kykar_47 Start: 35565, Stop: 35086, Start Num: 13

Candidate Starts for Kykar_47:

(6, 35637), (10, 35598), (Start: 13 @35565 has 193 MA's), (18, 35484), (23, 35463), (28, 35394), (35, 35331), (37, 35322), (41, 35175), (42, 35139),

Gene: LHTSCC_51 Start: 33807, Stop: 33271, Start Num: 9

Candidate Starts for LHTSCC_51:

(2, 33870), (Start: 9 @33807 has 153 MA's), (30, 33549), (35, 33516), (38, 33477), (42, 33312),

Gene: Lambert1_49 Start: 33695, Stop: 33096, Start Num: 5

Candidate Starts for Lambert1_49:

(Start: 3 @33722 has 1 MA's), (Start: 4 @33707 has 2 MA's), (Start: 5 @33695 has 22 MA's), (Start: 8 @33665 has 18 MA's), (14, 33596), (19, 33518), (30, 33398), (42, 33137),

Gene: Lamina13_47 Start: 35176, Stop: 34685, Start Num: 13

Candidate Starts for Lamina13_47:

(Start: 13 @35176 has 193 MA's), (18, 35095), (23, 35074), (35, 34942), (37, 34933), (39, 34882), (41, 34774), (42, 34738),

Gene: LappelDuVide_48 Start: 33387, Stop: 32848, Start Num: 9

Candidate Starts for LappelDuVide_48:

(Start: 3 @33444 has 1 MA's), (Start: 4 @33429 has 2 MA's), (Start: 9 @33387 has 153 MA's), (30, 33129), (35, 33096), (38, 33057), (42, 32889),

Gene: Lemur_49 Start: 33385, Stop: 32846, Start Num: 9

Candidate Starts for Lemur_49:

(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: LeoAvram_49 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for LeoAvram_49:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Lesedi_44 Start: 34760, Stop: 34239, Start Num: 13

Candidate Starts for Lesedi_44:

(6, 34832), (10, 34793), (Start: 13 @34760 has 193 MA's), (18, 34649), (23, 34628), (35, 34496), (37, 34487), (41, 34328), (42, 34292),

Gene: Lev2_42 Start: 32220, Stop: 31687, Start Num: 7

Candidate Starts for Lev2_42:

(Start: 7 @32220 has 37 MA's), (16, 32088), (19, 32082), (35, 31938),

Gene: Licorice_50 Start: 36999, Stop: 36508, Start Num: 13

Candidate Starts for Licorice_50:

(6, 37071), (10, 37032), (Start: 13 @36999 has 193 MA's), (18, 36918), (23, 36897), (28, 36828), (35, 36765), (37, 36756), (42, 36561),

Gene: LilBib_47 Start: 36057, Stop: 35566, Start Num: 13

Candidate Starts for LilBib_47:

(6, 36129), (10, 36090), (Start: 13 @36057 has 193 MA's), (18, 35976), (23, 35955), (35, 35823), (37, 35814), (41, 35655), (42, 35619),

Gene: LittleB_49 Start: 33389, Stop: 32850, Start Num: 9

Candidate Starts for LittleB_49:

(Start: 3 @33446 has 1 MA's), (Start: 4 @33431 has 2 MA's), (Start: 9 @33389 has 153 MA's), (30, 33131), (35, 33098), (38, 33059), (42, 32891),

Gene: LittleCherry_43 Start: 32555, Stop: 32028, Start Num: 7

Candidate Starts for LittleCherry_43:

(Start: 7 @32555 has 37 MA's), (16, 32420), (19, 32414), (35, 32270), (43, 32069), (44, 32051),

Gene: LittleGuy_49 Start: 33284, Stop: 32745, Start Num: 9

Candidate Starts for LittleGuy_49:

(Start: 3 @33341 has 1 MA's), (Start: 4 @33326 has 2 MA's), (Start: 9 @33284 has 153 MA's), (30, 33026), (35, 32993), (38, 32954), (42, 32786),

Gene: LochMonster_50 Start: 33624, Stop: 33085, Start Num: 9

Candidate Starts for LochMonster_50:

(Start: 3 @33681 has 1 MA's), (Start: 4 @33666 has 2 MA's), (Start: 9 @33624 has 153 MA's), (30, 33366), (35, 33333), (38, 33294), (42, 33126),

Gene: Lockley_46 Start: 35284, Stop: 34793, Start Num: 13

Candidate Starts for Lockley_46:

(6, 35356), (10, 35317), (Start: 13 @35284 has 193 MA's), (18, 35203), (23, 35182), (32, 35074), (35, 35050), (37, 35041), (41, 34882), (42, 34846),

Gene: Lopton_48 Start: 36884, Stop: 36393, Start Num: 13

Candidate Starts for Lopton_48:

(6, 36956), (10, 36917), (Start: 13 @36884 has 193 MA's), (18, 36803), (23, 36782), (28, 36713), (35, 36650), (37, 36641), (41, 36482), (42, 36446),

Gene: Lorenzo_49 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Lorenzo_49:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Lunsford_50 Start: 33382, Stop: 32843, Start Num: 9

Candidate Starts for Lunsford_50:

(Start: 3 @33439 has 1 MA's), (Start: 4 @33424 has 2 MA's), (Start: 9 @33382 has 153 MA's), (30, 33124), (35, 33091), (38, 33052), (42, 32884),

Gene: MA5_50 Start: 33050, Stop: 32487, Start Num: 9

Candidate Starts for MA5_50:

(Start: 3 @33107 has 1 MA's), (Start: 4 @33092 has 2 MA's), (Start: 9 @33050 has 153 MA's), (14, 32981), (19, 32903), (26, 32867), (30, 32783), (42, 32528),

Gene: MK4_50 Start: 33179, Stop: 32574, Start Num: 5

Candidate Starts for MK4_50:

(Start: 3 @33206 has 1 MA's), (Start: 4 @33191 has 2 MA's), (Start: 5 @33179 has 22 MA's), (Start: 9 @33149 has 153 MA's), (14, 33077), (19, 32999), (25, 32966), (26, 32963), (30, 32879), (37, 32834), (40, 32666), (42, 32615),

Gene: MPlant7149_46 Start: 34826, Stop: 34335, Start Num: 13

Candidate Starts for MPlant7149_46:

(6, 34898), (10, 34859), (Start: 13 @34826 has 193 MA's), (18, 34745), (23, 34724), (35, 34592), (37, 34583), (41, 34424), (42, 34388),

Gene: Magnar_46 Start: 35936, Stop: 35445, Start Num: 13

Candidate Starts for Magnar_46:

(Start: 13 @35936 has 193 MA's), (18, 35855), (23, 35834), (32, 35726), (35, 35702), (37, 35693), (41, 35534), (42, 35498),

Gene: Magnito_44 Start: 34508, Stop: 34017, Start Num: 13

Candidate Starts for Magnito_44:

(Start: 13 @34508 has 193 MA's), (18, 34427), (23, 34406), (35, 34274), (37, 34265), (41, 34106), (42, 34070),

Gene: Makemake_47 Start: 36354, Stop: 35863, Start Num: 13

Candidate Starts for Makemake_47:

(6, 36426), (10, 36387), (Start: 13 @36354 has 193 MA's), (18, 36273), (23, 36252), (35, 36120), (37, 36111), (41, 35952), (42, 35916),

Gene: Manatee_48 Start: 35062, Stop: 34571, Start Num: 13

Candidate Starts for Manatee_48:

(Start: 13 @35062 has 193 MA's), (18, 34981), (23, 34960), (32, 34852), (35, 34828), (37, 34819), (41, 34660), (42, 34624),

Gene: Marcell_45 Start: 35220, Stop: 34729, Start Num: 13

Candidate Starts for Marcell_45:

(6, 35292), (10, 35253), (Start: 13 @35220 has 193 MA's), (18, 35139), (23, 35118), (28, 35049), (35, 34986), (37, 34977), (41, 34818), (42, 34782),

Gene: Marge_47 Start: 36031, Stop: 35540, Start Num: 13

Candidate Starts for Marge_47:

(6, 36103), (10, 36064), (Start: 13 @36031 has 193 MA's), (18, 35950), (23, 35929), (28, 35860), (32, 35821), (35, 35797), (37, 35788), (41, 35629), (42, 35593),

Gene: Margo_49 Start: 33721, Stop: 33122, Start Num: 5

Candidate Starts for Margo_49:

(Start: 3 @33748 has 1 MA's), (Start: 4 @33733 has 2 MA's), (Start: 5 @33721 has 22 MA's), (Start: 8 @33691 has 18 MA's), (14, 33622), (19, 33544), (30, 33424), (42, 33163),

Gene: Marsha_47 Start: 36587, Stop: 36096, Start Num: 13

Candidate Starts for Marsha_47:

(6, 36659), (10, 36620), (Start: 13 @36587 has 193 MA's), (18, 36506), (23, 36485), (28, 36416), (32, 36377), (35, 36353), (37, 36344), (41, 36185), (42, 36149),

Gene: MaryBeth_47 Start: 35493, Stop: 35002, Start Num: 13

Candidate Starts for MaryBeth_47:

(6, 35565), (10, 35526), (Start: 13 @35493 has 193 MA's), (18, 35412), (23, 35391), (35, 35259), (37, 35250), (41, 35091), (42, 35055),

Gene: MarysWell_41 Start: 32408, Stop: 31881, Start Num: 7
Candidate Starts for MarysWell_41:
(Start: 7 @32408 has 37 MA's), (16, 32273), (19, 32267), (35, 32123),

Gene: Maverick_49 Start: 33388, Stop: 32849, Start Num: 9
Candidate Starts for Maverick_49:
(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Maxo_50 Start: 33390, Stop: 32851, Start Num: 9
Candidate Starts for Maxo_50:
(Start: 3 @33447 has 1 MA's), (Start: 4 @33432 has 2 MA's), (Start: 9 @33390 has 153 MA's), (30, 33132), (35, 33099), (38, 33060), (42, 32892),

Gene: Mazhar510_49 Start: 33389, Stop: 32850, Start Num: 9
Candidate Starts for Mazhar510_49:
(Start: 3 @33446 has 1 MA's), (Start: 4 @33431 has 2 MA's), (Start: 9 @33389 has 153 MA's), (30, 33131), (35, 33098), (38, 33059), (42, 32891),

Gene: McGuire_48 Start: 35312, Stop: 34818, Start Num: 13
Candidate Starts for McGuire_48:
(Start: 13 @35312 has 193 MA's), (18, 35231), (23, 35210), (35, 35078), (37, 35069), (41, 34910), (42, 34874),

Gene: Medusa_49 Start: 33387, Stop: 32848, Start Num: 9
Candidate Starts for Medusa_49:
(Start: 3 @33444 has 1 MA's), (Start: 4 @33429 has 2 MA's), (Start: 9 @33387 has 153 MA's), (30, 33129), (35, 33096), (38, 33057), (42, 32889),

Gene: MeeZee_49 Start: 33385, Stop: 32846, Start Num: 9
Candidate Starts for MeeZee_49:
(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: Melvin_51 Start: 33383, Stop: 32844, Start Num: 9
Candidate Starts for Melvin_51:
(Start: 3 @33440 has 1 MA's), (Start: 4 @33425 has 2 MA's), (Start: 9 @33383 has 153 MA's), (30, 33125), (35, 33092), (38, 33053), (42, 32885),

Gene: MetalQZJ_46 Start: 35493, Stop: 35002, Start Num: 13
Candidate Starts for MetalQZJ_46:
(6, 35565), (10, 35526), (Start: 13 @35493 has 193 MA's), (18, 35412), (23, 35391), (35, 35259), (37, 35250), (41, 35091), (42, 35055),

Gene: Micasa_43 Start: 32549, Stop: 32157, Start Num: 16
Candidate Starts for Micasa_43:
(Start: 7 @32684 has 37 MA's), (16, 32549), (19, 32543), (35, 32399), (44, 32180),

Gene: Michley_46 Start: 35011, Stop: 34520, Start Num: 13
Candidate Starts for Michley_46:
(Start: 13 @35011 has 193 MA's), (18, 34930), (23, 34909), (28, 34840), (32, 34801), (35, 34777), (37, 34768), (41, 34609), (42, 34573),

Gene: Midas2_42 Start: 32408, Stop: 31872, Start Num: 7

Candidate Starts for Midas2_42:

(Start: 7 @32408 has 37 MA's), (16, 32273), (19, 32267), (35, 32123), (44, 31895),

Gene: Milcery_43 Start: 32512, Stop: 31985, Start Num: 7

Candidate Starts for Milcery_43:

(Start: 7 @32512 has 37 MA's), (16, 32377), (19, 32371), (35, 32227), (44, 32008),

Gene: Millski_48 Start: 33389, Stop: 32850, Start Num: 9

Candidate Starts for Millski_48:

(Start: 3 @33446 has 1 MA's), (Start: 4 @33431 has 2 MA's), (Start: 9 @33389 has 153 MA's), (30, 33131), (35, 33098), (38, 33059), (42, 32891),

Gene: MinecraftSteve_55 Start: 32820, Stop: 32260, Start Num: 11

Candidate Starts for MinecraftSteve_55:

(Start: 11 @32820 has 9 MA's), (12, 32814), (17, 32715), (23, 32688), (24, 32685), (31, 32574), (33, 32553), (35, 32544), (37, 32535), (42, 32316),

Gene: Miramae_47 Start: 32831, Stop: 32283, Start Num: 9

Candidate Starts for Miramae_47:

(Start: 9 @32831 has 153 MA's), (20, 32684), (35, 32534), (40, 32372), (42, 32324),

Gene: Molly_48 Start: 34897, Stop: 34406, Start Num: 13

Candidate Starts for Molly_48:

(Start: 13 @34897 has 193 MA's), (18, 34816), (23, 34795), (28, 34726), (35, 34663), (37, 34654), (41, 34495), (42, 34459),

Gene: Monet_50 Start: 37023, Stop: 36532, Start Num: 13

Candidate Starts for Monet_50:

(6, 37095), (10, 37056), (Start: 13 @37023 has 193 MA's), (18, 36942), (23, 36921), (35, 36789), (37, 36780), (41, 36621), (42, 36585),

Gene: Moose_47 Start: 35394, Stop: 34903, Start Num: 13

Candidate Starts for Moose_47:

(6, 35466), (10, 35427), (Start: 13 @35394 has 193 MA's), (18, 35313), (23, 35292), (35, 35160), (37, 35151), (41, 34992), (42, 34956),

Gene: Morpher26_48 Start: 33385, Stop: 32846, Start Num: 9

Candidate Starts for Morpher26_48:

(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: Morrow_50 Start: 33394, Stop: 32855, Start Num: 9

Candidate Starts for Morrow_50:

(Start: 3 @33451 has 1 MA's), (Start: 4 @33436 has 2 MA's), (Start: 9 @33394 has 153 MA's), (30, 33136), (35, 33103), (38, 33064), (42, 32896),

Gene: MrGordo_46 Start: 34805, Stop: 34314, Start Num: 13

Candidate Starts for MrGordo_46:

(Start: 13 @34805 has 193 MA's), (18, 34724), (23, 34703), (32, 34595), (35, 34571), (37, 34562), (41, 34403), (42, 34367),

Gene: Mryolo_45 Start: 34872, Stop: 34381, Start Num: 13

Candidate Starts for Mryolo_45:

(6, 34944), (10, 34905), (Start: 13 @34872 has 193 MA's), (18, 34791), (23, 34770), (28, 34701), (35, 34638), (37, 34629), (41, 34470), (42, 34434),

Gene: Mule_44 Start: 33043, Stop: 32564, Start Num: 13

Candidate Starts for Mule_44:

(6, 33115), (10, 33076), (Start: 13 @33043 has 193 MA's), (18, 32962), (23, 32941), (28, 32872), (32, 32833), (35, 32809), (37, 32800), (41, 32653), (42, 32617),

Gene: Mundrea_48 Start: 33386, Stop: 32841, Start Num: 9

Candidate Starts for Mundrea_48:

(Start: 9 @33386 has 153 MA's), (20, 33239), (29, 33146), (35, 33089), (42, 32882),

Gene: Museum_48 Start: 35048, Stop: 34557, Start Num: 13

Candidate Starts for Museum_48:

(Start: 13 @35048 has 193 MA's), (18, 34967), (23, 34946), (28, 34877), (35, 34814), (37, 34805), (41, 34646), (42, 34610),

Gene: NEHalo_45 Start: 34818, Stop: 34324, Start Num: 13

Candidate Starts for NEHalo_45:

(6, 34890), (10, 34851), (Start: 13 @34818 has 193 MA's), (18, 34737), (23, 34716), (32, 34608), (35, 34584), (37, 34575), (41, 34416), (42, 34380),

Gene: Naca_44 Start: 32823, Stop: 32299, Start Num: 7

Candidate Starts for Naca_44:

(Start: 7 @32823 has 37 MA's), (16, 32691), (19, 32685), (35, 32541),

Gene: Naira_49 Start: 37425, Stop: 36931, Start Num: 13

Candidate Starts for Naira_49:

(Start: 13 @37425 has 193 MA's), (18, 37344), (23, 37323), (35, 37191), (37, 37182), (41, 37023), (42, 36987),

Gene: NearlyHeadless_46 Start: 31699, Stop: 31181, Start Num: 8

Candidate Starts for NearlyHeadless_46:

(Start: 8 @31699 has 18 MA's), (16, 31582), (27, 31543), (29, 31483), (35, 31432), (36, 31426), (44, 31204),

Gene: Nebs_50 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Nebs_50:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Nemo27_49 Start: 33387, Stop: 32848, Start Num: 9

Candidate Starts for Nemo27_49:

(Start: 3 @33444 has 1 MA's), (Start: 4 @33429 has 2 MA's), (Start: 9 @33387 has 153 MA's), (30, 33129), (35, 33096), (38, 33057), (42, 32889),

Gene: Nerujay_49 Start: 36116, Stop: 35637, Start Num: 13

Candidate Starts for Nerujay_49:

(Start: 13 @36116 has 193 MA's), (18, 36035), (23, 36014), (35, 35882), (37, 35873), (41, 35726), (42, 35690),

Gene: Nhonho_48 Start: 35986, Stop: 35495, Start Num: 13

Candidate Starts for Nhonho_48:

(Start: 13 @35986 has 193 MA's), (18, 35905), (23, 35884), (35, 35752), (37, 35743), (41, 35584), (42, 35548),

Gene: Niza_50 Start: 36895, Stop: 36404, Start Num: 13

Candidate Starts for Niza_50:

(6, 36967), (10, 36928), (Start: 13 @36895 has 193 MA's), (18, 36814), (23, 36793), (35, 36661), (37, 36652), (41, 36493), (42, 36457),

Gene: Noella_49 Start: 33696, Stop: 33097, Start Num: 5

Candidate Starts for Noella_49:

(Start: 3 @33723 has 1 MA's), (Start: 4 @33708 has 2 MA's), (Start: 5 @33696 has 22 MA's), (Start: 8 @33666 has 18 MA's), (14, 33597), (19, 33519), (30, 33399), (42, 33138),

Gene: Noelle_49 Start: 33677, Stop: 33135, Start Num: 9

Candidate Starts for Noelle_49:

(Start: 3 @33734 has 1 MA's), (Start: 4 @33719 has 2 MA's), (Start: 9 @33677 has 153 MA's), (35, 33383), (38, 33344), (42, 33176),

Gene: Norbert_48 Start: 33695, Stop: 33096, Start Num: 5

Candidate Starts for Norbert_48:

(Start: 3 @33722 has 1 MA's), (Start: 4 @33707 has 2 MA's), (Start: 5 @33695 has 22 MA's), (Start: 8 @33665 has 18 MA's), (14, 33596), (19, 33518), (30, 33398), (42, 33137),

Gene: NorthStar_48 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for NorthStar_48:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: NotAPhaseMom_49 Start: 33392, Stop: 32853, Start Num: 9

Candidate Starts for NotAPhaseMom_49:

(Start: 3 @33449 has 1 MA's), (Start: 4 @33434 has 2 MA's), (Start: 9 @33392 has 153 MA's), (30, 33134), (35, 33101), (38, 33062), (42, 32894),

Gene: Nyxis_49 Start: 33278, Stop: 32739, Start Num: 9

Candidate Starts for Nyxis_49:

(Start: 3 @33335 has 1 MA's), (Start: 4 @33320 has 2 MA's), (Start: 9 @33278 has 153 MA's), (30, 33020), (35, 32987), (38, 32948), (42, 32780),

Gene: OKCentral2016_47 Start: 32762, Stop: 32202, Start Num: 9

Candidate Starts for OKCentral2016_47:

(Start: 9 @32762 has 153 MA's), (14, 32690), (25, 32576), (26, 32573), (33, 32465), (35, 32456), (42, 32249),

Gene: OKaNui_49 Start: 33438, Stop: 32899, Start Num: 9

Candidate Starts for OKaNui_49:

(Start: 3 @33495 has 1 MA's), (Start: 4 @33480 has 2 MA's), (Start: 9 @33438 has 153 MA's), (30, 33180), (35, 33147), (38, 33108), (42, 32940),

Gene: Obama12_50 Start: 33809, Stop: 33273, Start Num: 9

Candidate Starts for Obama12_50:

(2, 33872), (Start: 9 @33809 has 153 MA's), (30, 33551), (35, 33518), (38, 33479), (42, 33314),

Gene: Ohfah_50 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Ohfah_50:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Ohno789_48 Start: 36219, Stop: 35725, Start Num: 13

Candidate Starts for Ohno789_48:

(Start: 13 @36219 has 193 MA's), (18, 36138), (23, 36117), (32, 36009), (35, 35985), (37, 35976), (41, 35817), (42, 35781),

Gene: Oogway_44 Start: 34350, Stop: 33859, Start Num: 13

Candidate Starts for Oogway_44:

(Start: 13 @34350 has 193 MA's), (18, 34269), (23, 34248), (35, 34116), (37, 34107), (41, 33948), (42, 33912),

Gene: PP_51 Start: 36962, Stop: 36378, Start Num: 9

Candidate Starts for PP_51:

(Start: 9 @36962 has 153 MA's), (15, 36830), (23, 36791), (28, 36722), (35, 36653), (40, 36479),

Gene: PSullivan_47 Start: 34862, Stop: 34371, Start Num: 13

Candidate Starts for PSullivan_47:

(6, 34934), (10, 34895), (Start: 13 @34862 has 193 MA's), (18, 34781), (23, 34760), (28, 34691), (35, 34628), (37, 34619), (41, 34460), (42, 34424),

Gene: PacerPaul_47 Start: 35606, Stop: 35115, Start Num: 13

Candidate Starts for PacerPaul_47:

(6, 35678), (10, 35639), (Start: 13 @35606 has 193 MA's), (18, 35525), (23, 35504), (28, 35435), (32, 35396), (35, 35372), (37, 35363), (41, 35204), (42, 35168),

Gene: Palestino_48 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Palestino_48:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Panamaxus_47 Start: 33665, Stop: 33096, Start Num: 8

Candidate Starts for Panamaxus_47:

(Start: 3 @33722 has 1 MA's), (Start: 4 @33707 has 2 MA's), (Start: 5 @33695 has 22 MA's), (Start: 8 @33665 has 18 MA's), (14, 33596), (19, 33518), (30, 33398), (42, 33137),

Gene: Papez_50 Start: 37983, Stop: 37492, Start Num: 13

Candidate Starts for Papez_50:

(Start: 13 @37983 has 193 MA's), (18, 37902), (23, 37881), (28, 37812), (32, 37773), (35, 37749), (37, 37740), (41, 37581), (42, 37545),

Gene: Paphu_45 Start: 35117, Stop: 34626, Start Num: 13

Candidate Starts for Paphu_45:

(Start: 13 @35117 has 193 MA's), (18, 35036), (23, 35015), (28, 34946), (35, 34883), (37, 34874), (41, 34715), (42, 34679),

Gene: Paraselene_45 Start: 35484, Stop: 34990, Start Num: 13

Candidate Starts for Paraselene_45:

(6, 35556), (10, 35517), (Start: 13 @35484 has 193 MA's), (18, 35403), (23, 35382), (28, 35313), (35, 35250), (37, 35241), (41, 35082), (42, 35046),

Gene: Pari_48 Start: 35131, Stop: 34640, Start Num: 13

Candidate Starts for Pari_48:

(Start: 13 @35131 has 193 MA's), (18, 35050), (23, 35029), (35, 34897), (37, 34888), (41, 34729), (42, 34693),

Gene: PascalRango_48 Start: 35376, Stop: 34882, Start Num: 13

Candidate Starts for PascalRango_48:

(Start: 13 @35376 has 193 MA's), (18, 35295), (23, 35274), (28, 35205), (35, 35142), (37, 35133), (41, 34974), (42, 34938),

Gene: PattyP_48 Start: 35244, Stop: 34753, Start Num: 13

Candidate Starts for PattyP_48:

(6, 35316), (10, 35277), (Start: 13 @35244 has 193 MA's), (18, 35163), (23, 35142), (28, 35073), (35, 35010), (37, 35001), (41, 34842), (42, 34806),

Gene: PeaceMeal1_46 Start: 32314, Stop: 31766, Start Num: 9

Candidate Starts for PeaceMeal1_46:

(Start: 9 @32314 has 153 MA's), (14, 32245), (21, 32161), (22, 32158), (25, 32140), (26, 32137), (30, 32053), (35, 32020), (42, 31813),

Gene: Peaches_49 Start: 33387, Stop: 32848, Start Num: 9

Candidate Starts for Peaches_49:

(Start: 3 @33444 has 1 MA's), (Start: 4 @33429 has 2 MA's), (Start: 9 @33387 has 153 MA's), (30, 33129), (35, 33096), (38, 33057), (42, 32889),

Gene: Pelly_46 Start: 35645, Stop: 35154, Start Num: 13

Candidate Starts for Pelly_46:

(Start: 13 @35645 has 193 MA's), (18, 35564), (23, 35543), (35, 35411), (37, 35402), (41, 35243), (42, 35207),

Gene: Pepe_44 Start: 33805, Stop: 33314, Start Num: 13

Candidate Starts for Pepe_44:

(6, 33877), (10, 33838), (Start: 13 @33805 has 193 MA's), (18, 33724), (23, 33703), (28, 33634), (35, 33571), (37, 33562), (41, 33403), (42, 33367),

Gene: Perplexer_48 Start: 33361, Stop: 32822, Start Num: 9

Candidate Starts for Perplexer_48:

(Start: 3 @33418 has 1 MA's), (Start: 4 @33403 has 2 MA's), (Start: 9 @33361 has 153 MA's), (30, 33103), (35, 33070), (38, 33031), (42, 32863),

Gene: Perseus_47 Start: 35929, Stop: 35450, Start Num: 13

Candidate Starts for Perseus_47:

(6, 36001), (10, 35962), (Start: 13 @35929 has 193 MA's), (18, 35848), (23, 35827), (28, 35758), (32, 35719), (35, 35695), (37, 35686), (41, 35539), (42, 35503),

Gene: PeterPeter_49 Start: 33385, Stop: 32846, Start Num: 9

Candidate Starts for PeterPeter_49:

(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: Peterson_50 Start: 37831, Stop: 37337, Start Num: 13
Candidate Starts for Peterson_50:
(Start: 13 @37831 has 193 MA's), (18, 37750), (23, 37729), (28, 37660), (35, 37597), (37, 37588), (41, 37429), (42, 37393),

Gene: PetiteSangsue_48 Start: 33364, Stop: 32825, Start Num: 9
Candidate Starts for PetiteSangsue_48:
(Start: 3 @33421 has 1 MA's), (Start: 4 @33406 has 2 MA's), (Start: 9 @33364 has 153 MA's), (30, 33106), (35, 33073), (38, 33034), (42, 32866),

Gene: Petp2012_48 Start: 35856, Stop: 35365, Start Num: 13
Candidate Starts for Petp2012_48:
(Start: 13 @35856 has 193 MA's), (18, 35775), (23, 35754), (28, 35685), (35, 35622), (37, 35613), (41, 35454), (42, 35418),

Gene: Petruccio_47 Start: 35590, Stop: 35099, Start Num: 13
Candidate Starts for Petruccio_47:
(6, 35662), (10, 35623), (Start: 13 @35590 has 193 MA's), (18, 35509), (23, 35488), (28, 35419), (32, 35380), (35, 35356), (37, 35347), (41, 35188), (42, 35152),

Gene: PetterN_46 Start: 32243, Stop: 31719, Start Num: 7
Candidate Starts for PetterN_46:
(Start: 7 @32243 has 37 MA's), (16, 32111), (19, 32105), (35, 31961),

Gene: Phacado_49 Start: 33387, Stop: 32848, Start Num: 9
Candidate Starts for Phacado_49:
(Start: 3 @33444 has 1 MA's), (Start: 4 @33429 has 2 MA's), (Start: 9 @33387 has 153 MA's), (30, 33129), (35, 33096), (38, 33057), (42, 32889),

Gene: Phantastic_51 Start: 33380, Stop: 32778, Start Num: 5
Candidate Starts for Phantastic_51:
(Start: 3 @33407 has 1 MA's), (Start: 4 @33392 has 2 MA's), (Start: 5 @33380 has 22 MA's), (Start: 9 @33350 has 153 MA's), (14, 33281), (19, 33203), (26, 33167), (30, 33083), (42, 32819),

Gene: Phelipe_50 Start: 33388, Stop: 32849, Start Num: 9
Candidate Starts for Phelipe_50:
(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: PherrisBueller_47 Start: 34859, Stop: 34356, Start Num: 13
Candidate Starts for PherrisBueller_47:
(6, 34931), (10, 34892), (Start: 13 @34859 has 193 MA's), (18, 34778), (23, 34757), (32, 34649), (35, 34625), (37, 34616), (41, 34448), (42, 34412),

Gene: Phighter1804_49 Start: 33451, Stop: 32915, Start Num: 9
Candidate Starts for Phighter1804_49:
(Start: 9 @33451 has 153 MA's), (30, 33193), (35, 33160), (38, 33121), (42, 32956),

Gene: Phillis_48 Start: 32245, Stop: 31724, Start Num: 8
Candidate Starts for Phillis_48:
(Start: 8 @32245 has 18 MA's), (16, 32128), (29, 32029), (35, 31978), (36, 31972), (44, 31747),

Gene: Phlorence_41 Start: 32083, Stop: 31556, Start Num: 7

Candidate Starts for Phlorence_41:

(Start: 7 @32083 has 37 MA's), (16, 31948), (19, 31942), (35, 31798), (44, 31579),

Gene: Phontbonne_49 Start: 33279, Stop: 32740, Start Num: 9

Candidate Starts for Phontbonne_49:

(Start: 3 @33336 has 1 MA's), (Start: 4 @33321 has 2 MA's), (Start: 9 @33279 has 153 MA's), (30, 33021), (35, 32988), (38, 32949), (42, 32781),

Gene: PhrostyMug_46 Start: 35208, Stop: 34729, Start Num: 13

Candidate Starts for PhrostyMug_46:

(6, 35280), (10, 35241), (Start: 13 @35208 has 193 MA's), (18, 35127), (23, 35106), (28, 35037), (32, 34998), (35, 34974), (37, 34965), (41, 34818), (42, 34782),

Gene: PickleBack_42 Start: 32212, Stop: 31688, Start Num: 7

Candidate Starts for PickleBack_42:

(Start: 7 @32212 has 37 MA's), (16, 32080), (19, 32074), (35, 31930), (44, 31711),

Gene: PinkPlastic_46 Start: 35066, Stop: 34575, Start Num: 13

Candidate Starts for PinkPlastic_46:

(Start: 13 @35066 has 193 MA's), (18, 34985), (23, 34964), (35, 34832), (37, 34823), (39, 34772), (41, 34664), (42, 34628),

Gene: Pinto_47 Start: 35047, Stop: 34556, Start Num: 13

Candidate Starts for Pinto_47:

(6, 35119), (10, 35080), (Start: 13 @35047 has 193 MA's), (18, 34966), (23, 34945), (32, 34837), (35, 34813), (37, 34804), (41, 34645), (42, 34609),

Gene: Pipcraft_47 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Pipcraft_47:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Pippin_49 Start: 35957, Stop: 35466, Start Num: 13

Candidate Starts for Pippin_49:

(6, 36029), (10, 35990), (Start: 13 @35957 has 193 MA's), (18, 35876), (23, 35855), (35, 35723), (37, 35714), (41, 35555), (42, 35519),

Gene: Pistachio_52 Start: 33268, Stop: 32705, Start Num: 8

Candidate Starts for Pistachio_52:

(Start: 3 @33325 has 1 MA's), (Start: 4 @33310 has 2 MA's), (Start: 5 @33298 has 22 MA's), (Start: 8 @33268 has 18 MA's), (14, 33199), (19, 33121), (26, 33085), (30, 33001), (42, 32746),

Gene: Pita2_50 Start: 36359, Stop: 35868, Start Num: 13

Candidate Starts for Pita2_50:

(6, 36431), (10, 36392), (Start: 13 @36359 has 193 MA's), (18, 36278), (23, 36257), (28, 36188), (35, 36125), (37, 36116), (41, 35957), (42, 35921),

Gene: Pocahontas_49 Start: 33692, Stop: 33093, Start Num: 5

Candidate Starts for Pocahontas_49:

(Start: 3 @33719 has 1 MA's), (Start: 4 @33704 has 2 MA's), (Start: 5 @33692 has 22 MA's), (Start: 8 @33662 has 18 MA's), (14, 33593), (19, 33515), (30, 33395), (42, 33134),

Gene: Polymorphads_50 Start: 33381, Stop: 32842, Start Num: 9

Candidate Starts for Polymorphads_50:

(Start: 3 @33438 has 1 MA's), (Start: 4 @33423 has 2 MA's), (Start: 9 @33381 has 153 MA's), (30, 33123), (35, 33090), (38, 33051), (42, 32883),

Gene: Poompha_47 Start: 32312, Stop: 31764, Start Num: 9

Candidate Starts for Poompha_47:

(Start: 9 @32312 has 153 MA's), (14, 32243), (21, 32159), (22, 32156), (25, 32138), (26, 32135), (30, 32051), (35, 32018), (42, 31811),

Gene: Popcicle_49 Start: 33662, Stop: 33093, Start Num: 8

Candidate Starts for Popcicle_49:

(Start: 3 @33719 has 1 MA's), (Start: 4 @33704 has 2 MA's), (Start: 5 @33692 has 22 MA's), (Start: 8 @33662 has 18 MA's), (14, 33593), (19, 33515), (30, 33395), (42, 33134),

Gene: Pumbaa_49 Start: 33333, Stop: 32794, Start Num: 9

Candidate Starts for Pumbaa_49:

(Start: 3 @33390 has 1 MA's), (Start: 4 @33375 has 2 MA's), (Start: 9 @33333 has 153 MA's), (30, 33075), (35, 33042), (38, 33003), (42, 32835),

Gene: Puppy_52 Start: 33370, Stop: 32777, Start Num: 5

Candidate Starts for Puppy_52:

(Start: 3 @33397 has 1 MA's), (Start: 4 @33382 has 2 MA's), (Start: 5 @33370 has 22 MA's), (Start: 8 @33340 has 18 MA's), (14, 33271), (19, 33193), (26, 33157), (30, 33073), (42, 32818),

Gene: QTRlifeCrisis_47 Start: 36055, Stop: 35564, Start Num: 13

Candidate Starts for QTRlifeCrisis_47:

(6, 36127), (10, 36088), (Start: 13 @36055 has 193 MA's), (18, 35974), (23, 35953), (32, 35845), (35, 35821), (37, 35812), (41, 35653), (42, 35617),

Gene: QuinnKiro_48 Start: 33695, Stop: 33096, Start Num: 5

Candidate Starts for QuinnKiro_48:

(Start: 3 @33722 has 1 MA's), (Start: 4 @33707 has 2 MA's), (Start: 5 @33695 has 22 MA's), (Start: 8 @33665 has 18 MA's), (14, 33596), (19, 33518), (30, 33398), (42, 33137),

Gene: Rajelicia_48 Start: 35989, Stop: 35498, Start Num: 13

Candidate Starts for Rajelicia_48:

(6, 36061), (10, 36022), (Start: 13 @35989 has 193 MA's), (18, 35908), (23, 35887), (28, 35818), (35, 35755), (37, 35746), (41, 35587), (42, 35551),

Gene: Rebeuca_48 Start: 33414, Stop: 32863, Start Num: 9

Candidate Starts for Rebeuca_48:

(Start: 9 @33414 has 153 MA's), (14, 33345), (26, 33234), (30, 33150), (33, 33126), (35, 33117), (37, 33108), (42, 32910),

Gene: Relief_48 Start: 33385, Stop: 32846, Start Num: 9

Candidate Starts for Relief_48:

(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: ResDef_50 Start: 33665, Stop: 33096, Start Num: 8

Candidate Starts for ResDef_50:

(Start: 3 @33722 has 1 MA's), (Start: 4 @33707 has 2 MA's), (Start: 5 @33695 has 22 MA's), (Start: 8 @33665 has 18 MA's), (14, 33596), (19, 33518), (30, 33398), (42, 33137),

Gene: RhynO_49 Start: 33216, Stop: 32662, Start Num: 9

Candidate Starts for RhynO_49:

(Start: 9 @33216 has 153 MA's), (14, 33147), (24, 33054), (26, 33033), (30, 32949), (33, 32925), (35, 32916), (37, 32907), (42, 32709),

Gene: Rhynn_46 Start: 35290, Stop: 34811, Start Num: 13

Candidate Starts for Rhynn_46:

(6, 35362), (10, 35323), (Start: 13 @35290 has 193 MA's), (18, 35209), (23, 35188), (28, 35119), (35, 35056), (37, 35047), (41, 34900), (42, 34864),

Gene: RidgeCB_47 Start: 35205, Stop: 34714, Start Num: 13

Candidate Starts for RidgeCB_47:

(6, 35277), (10, 35238), (Start: 13 @35205 has 193 MA's), (18, 35124), (23, 35103), (28, 35034), (35, 34971), (37, 34962), (41, 34803), (42, 34767),

Gene: Ringer_48 Start: 36321, Stop: 35830, Start Num: 13

Candidate Starts for Ringer_48:

(6, 36393), (10, 36354), (Start: 13 @36321 has 193 MA's), (18, 36240), (23, 36219), (35, 36087), (37, 36078), (41, 35919), (42, 35883),

Gene: Roary_47 Start: 31912, Stop: 31391, Start Num: 8

Candidate Starts for Roary_47:

(Start: 8 @31912 has 18 MA's), (16, 31795), (29, 31696), (35, 31645), (36, 31639), (44, 31414),

Gene: Rockstar_50 Start: 33188, Stop: 32583, Start Num: 5

Candidate Starts for Rockstar_50:

(Start: 3 @33215 has 1 MA's), (Start: 4 @33200 has 2 MA's), (Start: 5 @33188 has 22 MA's), (Start: 9 @33158 has 153 MA's), (14, 33086), (19, 33008), (25, 32975), (26, 32972), (30, 32888), (37, 32843), (40, 32675), (42, 32624),

Gene: Rohr_48 Start: 36009, Stop: 35518, Start Num: 13

Candidate Starts for Rohr_48:

(6, 36081), (10, 36042), (Start: 13 @36009 has 193 MA's), (18, 35928), (23, 35907), (28, 35838), (35, 35775), (37, 35766), (41, 35607), (42, 35571),

Gene: Romney_49 Start: 33385, Stop: 32846, Start Num: 9

Candidate Starts for Romney_49:

(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: Roosevelt_48 Start: 33390, Stop: 32851, Start Num: 9

Candidate Starts for Roosevelt_48:

(Start: 3 @33447 has 1 MA's), (Start: 4 @33432 has 2 MA's), (Start: 9 @33390 has 153 MA's), (30, 33132), (35, 33099), (38, 33060), (42, 32892),

Gene: Rosalind_53 Start: 32742, Stop: 32176, Start Num: 11

Candidate Starts for Rosalind_53:

(Start: 11 @32742 has 9 MA's), (12, 32736), (17, 32631), (23, 32604), (24, 32601), (31, 32490), (33, 32469), (35, 32460), (37, 32451), (42, 32232),

Gene: Rubeus_47 Start: 33866, Stop: 33372, Start Num: 13

Candidate Starts for Rubeus_47:

(6, 33938), (10, 33899), (Start: 13 @33866 has 193 MA's), (18, 33785), (23, 33764), (28, 33695), (32, 33656), (35, 33632), (37, 33623), (41, 33461), (42, 33425),

Gene: Rufus_48 Start: 35636, Stop: 35142, Start Num: 13

Candidate Starts for Rufus_48:

(6, 35708), (10, 35669), (Start: 13 @35636 has 193 MA's), (18, 35555), (23, 35534), (28, 35465), (32, 35426), (35, 35402), (37, 35393), (41, 35231), (42, 35195),

Gene: Ruin_49 Start: 33381, Stop: 32842, Start Num: 9

Candidate Starts for Ruin_49:

(Start: 3 @33438 has 1 MA's), (Start: 4 @33423 has 2 MA's), (Start: 9 @33381 has 153 MA's), (30, 33123), (35, 33090), (38, 33051), (42, 32883),

Gene: Ruotula_50 Start: 37126, Stop: 36635, Start Num: 13

Candidate Starts for Ruotula_50:

(6, 37198), (10, 37159), (Start: 13 @37126 has 193 MA's), (18, 37045), (23, 37024), (28, 36955), (32, 36916), (35, 36892), (37, 36883), (41, 36724), (42, 36688),

Gene: Rutherferd_49 Start: 36503, Stop: 36024, Start Num: 13

Candidate Starts for Rutherferd_49:

(Start: 13 @36503 has 193 MA's), (18, 36422), (23, 36401), (28, 36332), (35, 36269), (37, 36260), (41, 36113), (42, 36077),

Gene: STLscum_48 Start: 36506, Stop: 36015, Start Num: 13

Candidate Starts for STLscum_48:

(Start: 13 @36506 has 193 MA's), (18, 36425), (23, 36404), (35, 36272), (37, 36263), (41, 36104), (42, 36068),

Gene: Sabertooth_49 Start: 33390, Stop: 32851, Start Num: 9

Candidate Starts for Sabertooth_49:

(Start: 3 @33447 has 1 MA's), (Start: 4 @33432 has 2 MA's), (Start: 9 @33390 has 153 MA's), (30, 33132), (35, 33099), (38, 33060), (42, 32892),

Gene: Sagefire_50 Start: 36875, Stop: 36384, Start Num: 13

Candidate Starts for Sagefire_50:

(6, 36947), (10, 36908), (Start: 13 @36875 has 193 MA's), (18, 36794), (23, 36773), (35, 36641), (37, 36632), (41, 36473), (42, 36437),

Gene: Saintus_41 Start: 28634, Stop: 28113, Start Num: 8

Candidate Starts for Saintus_41:

(Start: 8 @28634 has 18 MA's), (16, 28517), (27, 28478), (29, 28418), (35, 28367), (36, 28361), (44, 28136),

Gene: Sandaddy_46 Start: 35676, Stop: 35182, Start Num: 13

Candidate Starts for Sandaddy_46:

(6, 35748), (10, 35709), (Start: 13 @35676 has 193 MA's), (18, 35595), (23, 35574), (32, 35466), (35, 35442), (37, 35433), (41, 35274), (42, 35238),

Gene: Sanya_45 Start: 35975, Stop: 35472, Start Num: 13

Candidate Starts for Sanya_45:

(6, 36047), (10, 36008), (Start: 13 @35975 has 193 MA's), (18, 35894), (23, 35873), (32, 35765), (35, 35741), (37, 35732), (41, 35564), (42, 35528),

Gene: SarFire_45 Start: 35227, Stop: 34736, Start Num: 13

Candidate Starts for SarFire_45:

(6, 35299), (10, 35260), (Start: 13 @35227 has 193 MA's), (18, 35146), (23, 35125), (35, 34993), (37, 34984), (41, 34825), (42, 34789),

Gene: SaturnRing_51 Start: 33721, Stop: 33158, Start Num: 8

Candidate Starts for SaturnRing_51:

(Start: 3 @33778 has 1 MA's), (Start: 4 @33763 has 2 MA's), (Start: 5 @33751 has 22 MA's), (Start: 8 @33721 has 18 MA's), (14, 33652), (19, 33574), (26, 33538), (30, 33454), (42, 33199),

Gene: Scamp_49 Start: 33390, Stop: 32851, Start Num: 9

Candidate Starts for Scamp_49:

(Start: 3 @33447 has 1 MA's), (Start: 4 @33432 has 2 MA's), (Start: 9 @33390 has 153 MA's), (30, 33132), (35, 33099), (38, 33060), (42, 32892),

Gene: Scorpia_46 Start: 32329, Stop: 31805, Start Num: 7

Candidate Starts for Scorpia_46:

(Start: 7 @32329 has 37 MA's), (16, 32197), (19, 32191), (35, 32047),

Gene: Scout_50 Start: 32872, Stop: 32279, Start Num: 5

Candidate Starts for Scout_50:

(Start: 3 @32899 has 1 MA's), (Start: 4 @32884 has 2 MA's), (Start: 5 @32872 has 22 MA's), (Start: 8 @32842 has 18 MA's), (14, 32773), (19, 32695), (25, 32662), (26, 32659), (30, 32575), (42, 32320),

Gene: Scowl_48 Start: 36163, Stop: 35660, Start Num: 13

Candidate Starts for Scowl_48:

(6, 36235), (10, 36196), (Start: 13 @36163 has 193 MA's), (18, 36082), (23, 36061), (35, 35929), (37, 35920), (41, 35752), (42, 35716),

Gene: Seabiscuit_49 Start: 35399, Stop: 34908, Start Num: 13

Candidate Starts for Seabiscuit_49:

(Start: 13 @35399 has 193 MA's), (18, 35318), (23, 35297), (35, 35165), (37, 35156), (39, 35105), (41, 34997), (42, 34961),

Gene: Seanderson_49 Start: 36566, Stop: 36075, Start Num: 13

Candidate Starts for Seanderson_49:

(6, 36638), (10, 36599), (Start: 13 @36566 has 193 MA's), (18, 36485), (23, 36464), (35, 36332), (37, 36323), (41, 36164), (42, 36128),

Gene: Severus_46 Start: 32312, Stop: 31764, Start Num: 9

Candidate Starts for Severus_46:

(Start: 9 @32312 has 153 MA's), (14, 32243), (21, 32159), (22, 32156), (25, 32138), (26, 32135), (30, 32051), (35, 32018), (42, 31811),

Gene: Shaka_49 Start: 33385, Stop: 32846, Start Num: 9

Candidate Starts for Shaka_49:

(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: ShayRa_55 Start: 32786, Stop: 32223, Start Num: 11

Candidate Starts for ShayRa_55:

(Start: 11 @32786 has 9 MA's), (12, 32780), (17, 32678), (23, 32651), (24, 32648), (31, 32537), (33, 32516), (35, 32507), (37, 32498), (42, 32279),

Gene: SheldonCooper_51 Start: 33808, Stop: 33272, Start Num: 9
Candidate Starts for SheldonCooper_51:
(2, 33871), (Start: 9 @33808 has 153 MA's), (30, 33550), (35, 33517), (38, 33478), (42, 33313),

Gene: ShortQueendom_41 Start: 31740, Stop: 31246, Start Num: 13
Candidate Starts for ShortQueendom_41:
(6, 31812), (10, 31773), (Start: 13 @31740 has 193 MA's), (18, 31659), (23, 31638), (35, 31506), (37, 31497), (41, 31338), (42, 31302),

Gene: Shygu2_48 Start: 33364, Stop: 32825, Start Num: 9
Candidate Starts for Shygu2_48:
(Start: 3 @33421 has 1 MA's), (Start: 4 @33406 has 2 MA's), (Start: 9 @33364 has 153 MA's), (35, 33073), (38, 33034), (42, 32866),

Gene: Sibs6_48 Start: 34494, Stop: 34003, Start Num: 13
Candidate Starts for Sibs6_48:
(Start: 13 @34494 has 193 MA's), (18, 34413), (23, 34392), (28, 34323), (35, 34260), (37, 34251), (41, 34092), (42, 34056),

Gene: SkiPole_50 Start: 36227, Stop: 35736, Start Num: 13
Candidate Starts for SkiPole_50:
(Start: 13 @36227 has 193 MA's), (18, 36146), (23, 36125), (35, 35993), (37, 35984), (41, 35825), (42, 35789),

Gene: Skipitt_48 Start: 33382, Stop: 32843, Start Num: 9
Candidate Starts for Skipitt_48:
(Start: 3 @33439 has 1 MA's), (Start: 4 @33424 has 2 MA's), (Start: 9 @33382 has 153 MA's), (30, 33124), (35, 33091), (38, 33052), (42, 32884),

Gene: Slagathor_49 Start: 35914, Stop: 35423, Start Num: 13
Candidate Starts for Slagathor_49:
(6, 35986), (10, 35947), (Start: 13 @35914 has 193 MA's), (18, 35833), (23, 35812), (28, 35743), (35, 35680), (37, 35671), (41, 35512), (42, 35476),

Gene: Smairt_49 Start: 36201, Stop: 35722, Start Num: 13
Candidate Starts for Smairt_49:
(6, 36273), (10, 36234), (Start: 13 @36201 has 193 MA's), (18, 36120), (23, 36099), (28, 36030), (32, 35991), (35, 35967), (37, 35958), (41, 35811), (42, 35775),

Gene: Smeadley_47 Start: 32078, Stop: 31557, Start Num: 8
Candidate Starts for Smeadley_47:
(Start: 8 @32078 has 18 MA's), (16, 31961), (29, 31862), (35, 31811), (36, 31805), (44, 31580),

Gene: Smeagol_48 Start: 36735, Stop: 36244, Start Num: 13
Candidate Starts for Smeagol_48:
(Start: 13 @36735 has 193 MA's), (18, 36654), (23, 36633), (35, 36501), (37, 36492), (41, 36333), (42, 36297),

Gene: Snazzy_45 Start: 34933, Stop: 34439, Start Num: 13
Candidate Starts for Snazzy_45:
(Start: 13 @34933 has 193 MA's), (18, 34852), (23, 34831), (35, 34699), (37, 34690), (39, 34639), (41, 34531), (42, 34495),

Gene: Solon_46 Start: 35558, Stop: 35067, Start Num: 13

Candidate Starts for Solon_46:

(6, 35630), (10, 35591), (Start: 13 @35558 has 193 MA's), (18, 35477), (23, 35456), (32, 35348), (35, 35324), (37, 35315), (41, 35156), (42, 35120),

Gene: Sorpresa_45 Start: 35678, Stop: 35184, Start Num: 13

Candidate Starts for Sorpresa_45:

(6, 35750), (10, 35711), (Start: 13 @35678 has 193 MA's), (18, 35597), (23, 35576), (32, 35468), (35, 35444), (37, 35435), (41, 35276), (42, 35240),

Gene: Soups_55 Start: 33022, Stop: 32456, Start Num: 11

Candidate Starts for Soups_55:

(Start: 11 @33022 has 9 MA's), (12, 33016), (17, 32911), (23, 32884), (24, 32881), (31, 32770), (33, 32749), (35, 32740), (37, 32731), (42, 32512),

Gene: Sparxx_50 Start: 33383, Stop: 32844, Start Num: 9

Candidate Starts for Sparxx_50:

(Start: 3 @33440 has 1 MA's), (Start: 4 @33425 has 2 MA's), (Start: 9 @33383 has 153 MA's), (30, 33125), (35, 33092), (38, 33053), (42, 32885),

Gene: SpikeBT_47 Start: 35915, Stop: 35421, Start Num: 13

Candidate Starts for SpikeBT_47:

(Start: 13 @35915 has 193 MA's), (18, 35834), (23, 35813), (32, 35705), (35, 35681), (37, 35672), (41, 35513), (42, 35477),

Gene: Spino_48 Start: 33388, Stop: 32849, Start Num: 9

Candidate Starts for Spino_48:

(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: Squee_47 Start: 35892, Stop: 35398, Start Num: 13

Candidate Starts for Squee_47:

(Start: 13 @35892 has 193 MA's), (18, 35811), (23, 35790), (35, 35658), (37, 35649), (41, 35490), (42, 35454),

Gene: Stasia_48 Start: 33264, Stop: 32728, Start Num: 9

Candidate Starts for Stasia_48:

(Start: 3 @33321 has 1 MA's), (Start: 4 @33306 has 2 MA's), (Start: 9 @33264 has 153 MA's), (30, 33006), (35, 32973), (38, 32934), (40, 32817), (42, 32769),

Gene: Stephig9_47 Start: 31916, Stop: 31395, Start Num: 8

Candidate Starts for Stephig9_47:

(Start: 8 @31916 has 18 MA's), (16, 31799), (29, 31700), (34, 31652), (35, 31649), (36, 31643), (44, 31418),

Gene: StewieG_46 Start: 33078, Stop: 32599, Start Num: 13

Candidate Starts for StewieG_46:

(6, 33150), (10, 33111), (Start: 13 @33078 has 193 MA's), (18, 32997), (23, 32976), (28, 32907), (35, 32844), (37, 32835), (41, 32688), (42, 32652),

Gene: Stink_48 Start: 33111, Stop: 32563, Start Num: 9

Candidate Starts for Stink_48:

(Start: 9 @33111 has 153 MA's), (20, 32964), (35, 32814), (40, 32652), (42, 32604),

Gene: StrongArm_47 Start: 36761, Stop: 36270, Start Num: 13

Candidate Starts for StrongArm_47:

(6, 36833), (10, 36794), (Start: 13 @36761 has 193 MA's), (18, 36680), (23, 36659), (35, 36527), (37, 36518), (41, 36359), (42, 36323),

Gene: Sumter_44 Start: 35263, Stop: 34772, Start Num: 13

Candidate Starts for Sumter_44:

(6, 35335), (10, 35296), (Start: 13 @35263 has 193 MA's), (18, 35182), (23, 35161), (32, 35053), (35, 35029), (37, 35020), (41, 34861), (42, 34825),

Gene: Sunshine924_48 Start: 35178, Stop: 34687, Start Num: 13

Candidate Starts for Sunshine924_48:

(Start: 13 @35178 has 193 MA's), (18, 35097), (23, 35076), (35, 34944), (37, 34935), (41, 34776), (42, 34740),

Gene: Swirley_45 Start: 32876, Stop: 32349, Start Num: 7

Candidate Starts for Swirley_45:

(Start: 7 @32876 has 37 MA's), (16, 32741), (19, 32735), (35, 32591), (44, 32372),

Gene: SwissCheese_49 Start: 35894, Stop: 35403, Start Num: 13

Candidate Starts for SwissCheese_49:

(6, 35966), (10, 35927), (Start: 13 @35894 has 193 MA's), (18, 35813), (23, 35792), (35, 35660), (37, 35651), (41, 35492), (42, 35456),

Gene: Switzer_48 Start: 35468, Stop: 34977, Start Num: 13

Candidate Starts for Switzer_48:

(Start: 13 @35468 has 193 MA's), (18, 35387), (23, 35366), (32, 35258), (35, 35234), (37, 35225), (41, 35066), (42, 35030),

Gene: Switzerland_54 Start: 32922, Stop: 32356, Start Num: 11

Candidate Starts for Switzerland_54:

(Start: 11 @32922 has 9 MA's), (12, 32916), (17, 32811), (23, 32784), (24, 32781), (31, 32670), (33, 32649), (35, 32640), (37, 32631), (42, 32412),

Gene: Swole_48 Start: 35063, Stop: 34572, Start Num: 13

Candidate Starts for Swole_48:

(6, 35135), (10, 35096), (Start: 13 @35063 has 193 MA's), (18, 34982), (23, 34961), (28, 34892), (35, 34829), (37, 34820), (41, 34661), (42, 34625),

Gene: SydNat_44 Start: 33081, Stop: 32545, Start Num: 7

Candidate Starts for SydNat_44:

(Start: 7 @33081 has 37 MA's), (16, 32946), (19, 32940), (35, 32796),

Gene: TNguyen7_51 Start: 33687, Stop: 33124, Start Num: 8

Candidate Starts for TNguyen7_51:

(Start: 3 @33744 has 1 MA's), (Start: 4 @33729 has 2 MA's), (Start: 5 @33717 has 22 MA's), (Start: 8 @33687 has 18 MA's), (14, 33618), (19, 33540), (26, 33504), (30, 33420), (42, 33165),

Gene: Taquarus_49 Start: 33391, Stop: 32852, Start Num: 9

Candidate Starts for Taquarus_49:

(Start: 3 @33448 has 1 MA's), (Start: 4 @33433 has 2 MA's), (Start: 9 @33391 has 153 MA's), (30, 33133), (35, 33100), (38, 33061), (42, 32893),

Gene: Target_48 Start: 34467, Stop: 33976, Start Num: 13

Candidate Starts for Target_48:

(6, 34539), (10, 34500), (Start: 13 @34467 has 193 MA's), (18, 34386), (35, 34233), (37, 34224), (41, 34065), (42, 34029),

Gene: Tarynearal_41 Start: 32318, Stop: 31791, Start Num: 7

Candidate Starts for Tarynearal_41:

(Start: 7 @32318 has 37 MA's), (16, 32183), (19, 32177), (35, 32033), (44, 31814),

Gene: Tasp14_48 Start: 35800, Stop: 35309, Start Num: 13

Candidate Starts for Tasp14_48:

(Start: 13 @35800 has 193 MA's), (18, 35719), (23, 35698), (35, 35566), (37, 35557), (39, 35506), (41, 35398), (42, 35362),

Gene: Texage_48 Start: 33696, Stop: 33097, Start Num: 5

Candidate Starts for Texage_48:

(Start: 3 @33723 has 1 MA's), (Start: 4 @33708 has 2 MA's), (Start: 5 @33696 has 22 MA's), (Start: 8 @33666 has 18 MA's), (14, 33597), (19, 33519), (30, 33399), (42, 33138),

Gene: Thanksgivukkah_48 Start: 33428, Stop: 32847, Start Num: 4

Candidate Starts for Thanksgivukkah_48:

(Start: 3 @33443 has 1 MA's), (Start: 4 @33428 has 2 MA's), (Start: 9 @33386 has 153 MA's), (30, 33128), (35, 33095), (38, 33056), (42, 32888),

Gene: Theia_40 Start: 32347, Stop: 31820, Start Num: 7

Candidate Starts for Theia_40:

(Start: 7 @32347 has 37 MA's), (16, 32212), (19, 32206), (35, 32062),

Gene: TheloniousMonk_48 Start: 36922, Stop: 36431, Start Num: 13

Candidate Starts for TheloniousMonk_48:

(6, 36994), (10, 36955), (Start: 13 @36922 has 193 MA's), (18, 36841), (23, 36820), (28, 36751), (35, 36688), (37, 36679), (41, 36520), (42, 36484),

Gene: Thor_45 Start: 34585, Stop: 34094, Start Num: 13

Candidate Starts for Thor_45:

(6, 34657), (10, 34618), (Start: 13 @34585 has 193 MA's), (18, 34504), (23, 34483), (35, 34351), (37, 34342), (41, 34183), (42, 34147),

Gene: Tiger_41 Start: 31886, Stop: 31353, Start Num: 7

Candidate Starts for Tiger_41:

(Start: 7 @31886 has 37 MA's), (16, 31754), (19, 31748), (35, 31604),

Gene: TinaFeyge_49 Start: 33383, Stop: 32844, Start Num: 9

Candidate Starts for TinaFeyge_49:

(Start: 3 @33440 has 1 MA's), (Start: 4 @33425 has 2 MA's), (Start: 9 @33383 has 153 MA's), (30, 33125), (35, 33092), (38, 33053), (42, 32885),

Gene: Tinybot_48 Start: 33415, Stop: 32876, Start Num: 9

Candidate Starts for Tinybot_48:

(Start: 3 @33472 has 1 MA's), (Start: 4 @33457 has 2 MA's), (Start: 9 @33415 has 153 MA's), (30, 33157), (35, 33124), (38, 33085), (42, 32917),

Gene: TiroTheta9_49 Start: 33382, Stop: 32843, Start Num: 9

Candidate Starts for TiroTheta9_49:

(Start: 3 @33439 has 1 MA's), (Start: 4 @33424 has 2 MA's), (Start: 9 @33382 has 153 MA's), (30, 33124), (35, 33091), (38, 33052), (42, 32884),

Gene: Todacoro_49 Start: 33695, Stop: 33096, Start Num: 5

Candidate Starts for Todacoro_49:

(Start: 3 @33722 has 1 MA's), (Start: 4 @33707 has 2 MA's), (Start: 5 @33695 has 22 MA's), (Start: 8 @33665 has 18 MA's), (14, 33596), (19, 33518), (30, 33398), (42, 33137),

Gene: Topanga_46 Start: 33064, Stop: 32513, Start Num: 9

Candidate Starts for Topanga_46:

(Start: 9 @33064 has 153 MA's), (14, 32995), (26, 32884), (30, 32800), (33, 32776), (35, 32767), (37, 32758), (42, 32560),

Gene: Tote_43 Start: 32330, Stop: 31839, Start Num: 13

Candidate Starts for Tote_43:

(6, 32402), (10, 32363), (Start: 13 @32330 has 193 MA's), (18, 32249), (23, 32228), (28, 32159), (35, 32096), (37, 32087), (41, 31928), (42, 31892),

Gene: Traft412_47 Start: 36020, Stop: 35529, Start Num: 13

Candidate Starts for Traft412_47:

(Start: 13 @36020 has 193 MA's), (18, 35939), (23, 35918), (32, 35810), (35, 35786), (37, 35777), (41, 35618), (42, 35582),

Gene: Treddle_48 Start: 36535, Stop: 36044, Start Num: 13

Candidate Starts for Treddle_48:

(6, 36607), (10, 36568), (Start: 13 @36535 has 193 MA's), (18, 36454), (23, 36433), (28, 36364), (35, 36301), (37, 36292), (41, 36133), (42, 36097),

Gene: Trike_46 Start: 32321, Stop: 31773, Start Num: 9

Candidate Starts for Trike_46:

(Start: 9 @32321 has 153 MA's), (14, 32252), (21, 32168), (22, 32165), (25, 32147), (26, 32144), (30, 32060), (35, 32027), (42, 31820),

Gene: Tripl3t_47 Start: 36206, Stop: 35715, Start Num: 13

Candidate Starts for Tripl3t_47:

(6, 36278), (10, 36239), (Start: 13 @36206 has 193 MA's), (18, 36125), (23, 36104), (28, 36035), (35, 35972), (37, 35963), (41, 35804), (42, 35768),

Gene: Trouble_49 Start: 36916, Stop: 36437, Start Num: 13

Candidate Starts for Trouble_49:

(Start: 13 @36916 has 193 MA's), (18, 36835), (23, 36814), (35, 36682), (37, 36673), (41, 36526), (42, 36490),

Gene: TroyPia_50 Start: 33386, Stop: 32847, Start Num: 9

Candidate Starts for TroyPia_50:

(Start: 3 @33443 has 1 MA's), (Start: 4 @33428 has 2 MA's), (Start: 9 @33386 has 153 MA's), (30, 33128), (35, 33095), (38, 33056), (42, 32888),

Gene: Turj99_44 Start: 34778, Stop: 34287, Start Num: 13
Candidate Starts for Turj99_44:
(Start: 13 @34778 has 193 MA's), (18, 34697), (23, 34676), (35, 34544), (37, 34535), (41, 34376), (42, 34340),

Gene: Twister_46 Start: 32975, Stop: 32424, Start Num: 9
Candidate Starts for Twister_46:
(Start: 9 @32975 has 153 MA's), (14, 32906), (26, 32795), (30, 32711), (33, 32687), (35, 32678), (37, 32669), (42, 32471),

Gene: TwoPeat_48 Start: 35654, Stop: 35163, Start Num: 13
Candidate Starts for TwoPeat_48:
(6, 35726), (10, 35687), (Start: 13 @35654 has 193 MA's), (18, 35573), (23, 35552), (28, 35483), (35, 35420), (37, 35411), (41, 35252), (42, 35216),

Gene: TygerBlood_49 Start: 33388, Stop: 32849, Start Num: 9
Candidate Starts for TygerBlood_49:
(Start: 3 @33445 has 1 MA's), (Start: 4 @33430 has 2 MA's), (Start: 9 @33388 has 153 MA's), (30, 33130), (35, 33097), (38, 33058), (42, 32890),

Gene: U2_46 Start: 35448, Stop: 34957, Start Num: 13
Candidate Starts for U2_46:
(Start: 13 @35448 has 193 MA's), (18, 35367), (23, 35346), (32, 35238), (35, 35214), (37, 35205), (41, 35046), (42, 35010),

Gene: Ulysses_48 Start: 33065, Stop: 32526, Start Num: 9
Candidate Starts for Ulysses_48:
(Start: 3 @33122 has 1 MA's), (Start: 4 @33107 has 2 MA's), (Start: 9 @33065 has 153 MA's), (30, 32807), (35, 32774), (38, 32735), (42, 32567),

Gene: UnionJack_43 Start: 31830, Stop: 31306, Start Num: 7
Candidate Starts for UnionJack_43:
(Start: 7 @31830 has 37 MA's), (16, 31698), (19, 31692), (35, 31548), (44, 31329),

Gene: Veracruz_48 Start: 33695, Stop: 33096, Start Num: 5
Candidate Starts for Veracruz_48:
(Start: 3 @33722 has 1 MA's), (Start: 4 @33707 has 2 MA's), (Start: 5 @33695 has 22 MA's), (Start: 8 @33665 has 18 MA's), (14, 33596), (19, 33518), (30, 33398), (42, 33137),

Gene: Violet_45 Start: 35592, Stop: 35101, Start Num: 13
Candidate Starts for Violet_45:
(6, 35664), (10, 35625), (Start: 13 @35592 has 193 MA's), (18, 35511), (23, 35490), (37, 35349), (41, 35190), (42, 35154),

Gene: WalterMcMickey_46 Start: 32975, Stop: 32424, Start Num: 9
Candidate Starts for WalterMcMickey_46:
(Start: 9 @32975 has 153 MA's), (14, 32906), (26, 32795), (30, 32711), (33, 32687), (35, 32678), (37, 32669), (42, 32471),

Gene: Wander_49 Start: 33385, Stop: 32846, Start Num: 9
Candidate Starts for Wander_49:
(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: Watermelon_48 Start: 35984, Stop: 35463, Start Num: 13

Candidate Starts for Watermelon_48:

(6, 36056), (10, 36017), (Start: 13 @35984 has 193 MA's), (18, 35873), (23, 35852), (28, 35783), (35, 35720), (37, 35711), (41, 35552), (42, 35516),

Gene: Wheeler_47 Start: 35662, Stop: 35171, Start Num: 13

Candidate Starts for Wheeler_47:

(Start: 13 @35662 has 193 MA's), (18, 35581), (23, 35560), (28, 35491), (35, 35428), (37, 35419), (41, 35260), (42, 35224),

Gene: Wilbur_49 Start: 33385, Stop: 32846, Start Num: 9

Candidate Starts for Wilbur_49:

(Start: 3 @33442 has 1 MA's), (Start: 4 @33427 has 2 MA's), (Start: 9 @33385 has 153 MA's), (30, 33127), (35, 33094), (38, 33055), (42, 32887),

Gene: Wile_48 Start: 33395, Stop: 32856, Start Num: 9

Candidate Starts for Wile_48:

(Start: 3 @33452 has 1 MA's), (Start: 4 @33437 has 2 MA's), (Start: 9 @33395 has 153 MA's), (30, 33137), (35, 33104), (38, 33065), (42, 32897),

Gene: Wizard007_49 Start: 33393, Stop: 32854, Start Num: 9

Candidate Starts for Wizard007_49:

(Start: 3 @33450 has 1 MA's), (Start: 4 @33435 has 2 MA's), (Start: 9 @33393 has 153 MA's), (30, 33135), (35, 33102), (38, 33063), (42, 32895),

Gene: Xena_47 Start: 33361, Stop: 32822, Start Num: 9

Candidate Starts for Xena_47:

(Start: 3 @33418 has 1 MA's), (Start: 4 @33403 has 2 MA's), (Start: 9 @33361 has 153 MA's), (30, 33103), (35, 33070), (38, 33031), (42, 32863),

Gene: YoSam321_49 Start: 33382, Stop: 32843, Start Num: 9

Candidate Starts for YoSam321_49:

(Start: 3 @33439 has 1 MA's), (Start: 4 @33424 has 2 MA's), (Start: 9 @33382 has 153 MA's), (30, 33124), (35, 33091), (38, 33052), (42, 32884),

Gene: Zeeculate_45 Start: 35637, Stop: 35146, Start Num: 13

Candidate Starts for Zeeculate_45:

(6, 35709), (10, 35670), (Start: 13 @35637 has 193 MA's), (18, 35556), (23, 35535), (35, 35403), (37, 35394), (41, 35235), (42, 35199),

Gene: Zephyr_47 Start: 35477, Stop: 34986, Start Num: 13

Candidate Starts for Zephyr_47:

(6, 35549), (10, 35510), (Start: 13 @35477 has 193 MA's), (18, 35396), (23, 35375), (32, 35267), (35, 35243), (37, 35234), (41, 35075), (42, 35039),

Gene: Zeuska_46 Start: 35568, Stop: 35089, Start Num: 13

Candidate Starts for Zeuska_46:

(6, 35640), (10, 35601), (Start: 13 @35568 has 193 MA's), (18, 35487), (23, 35466), (28, 35397), (35, 35334), (37, 35325), (41, 35178), (42, 35142),

Gene: Zolita_43 Start: 33085, Stop: 32549, Start Num: 7

Candidate Starts for Zolita_43:

(Start: 7 @33085 has 37 MA's), (16, 32950), (19, 32944), (35, 32800),