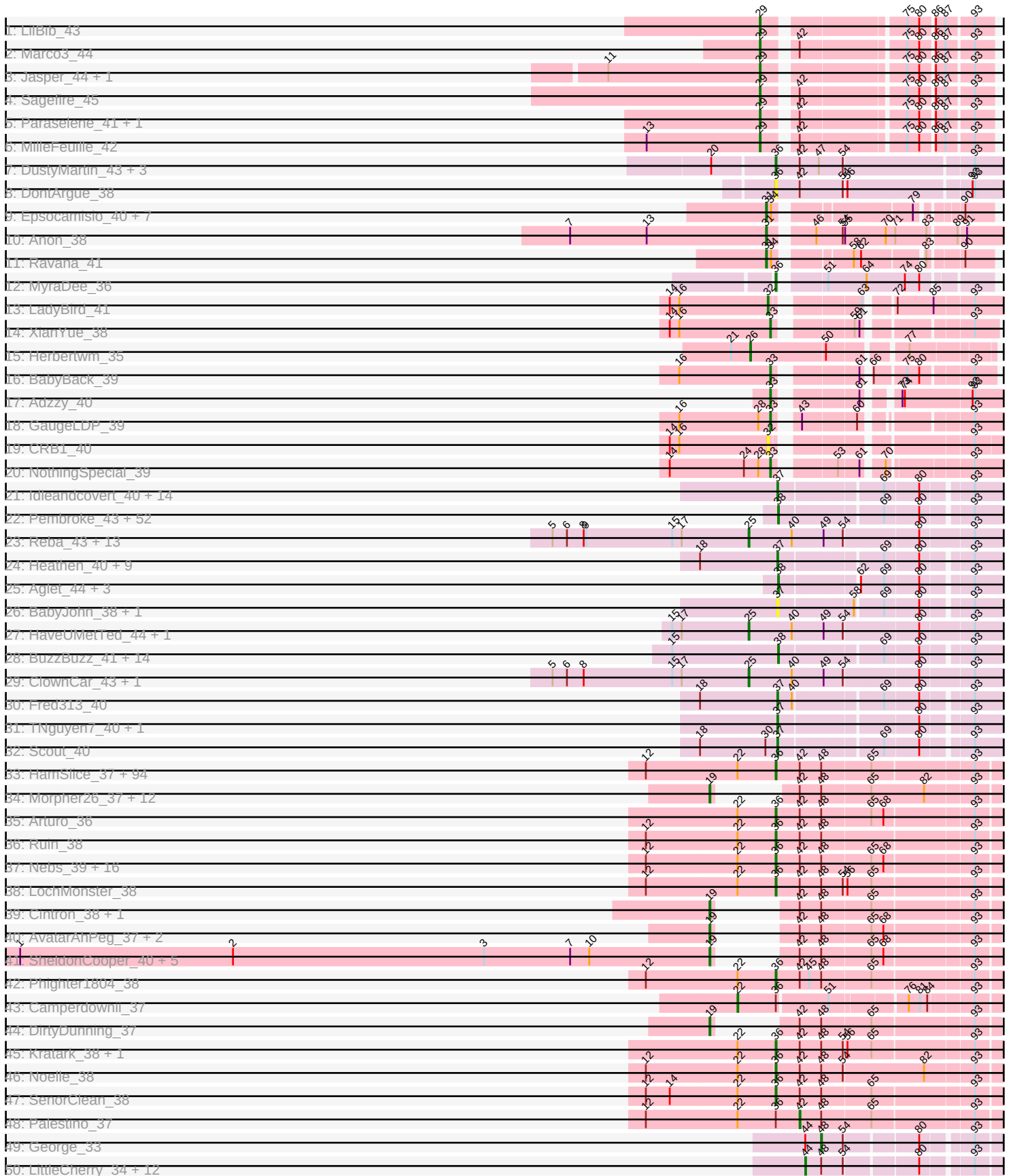
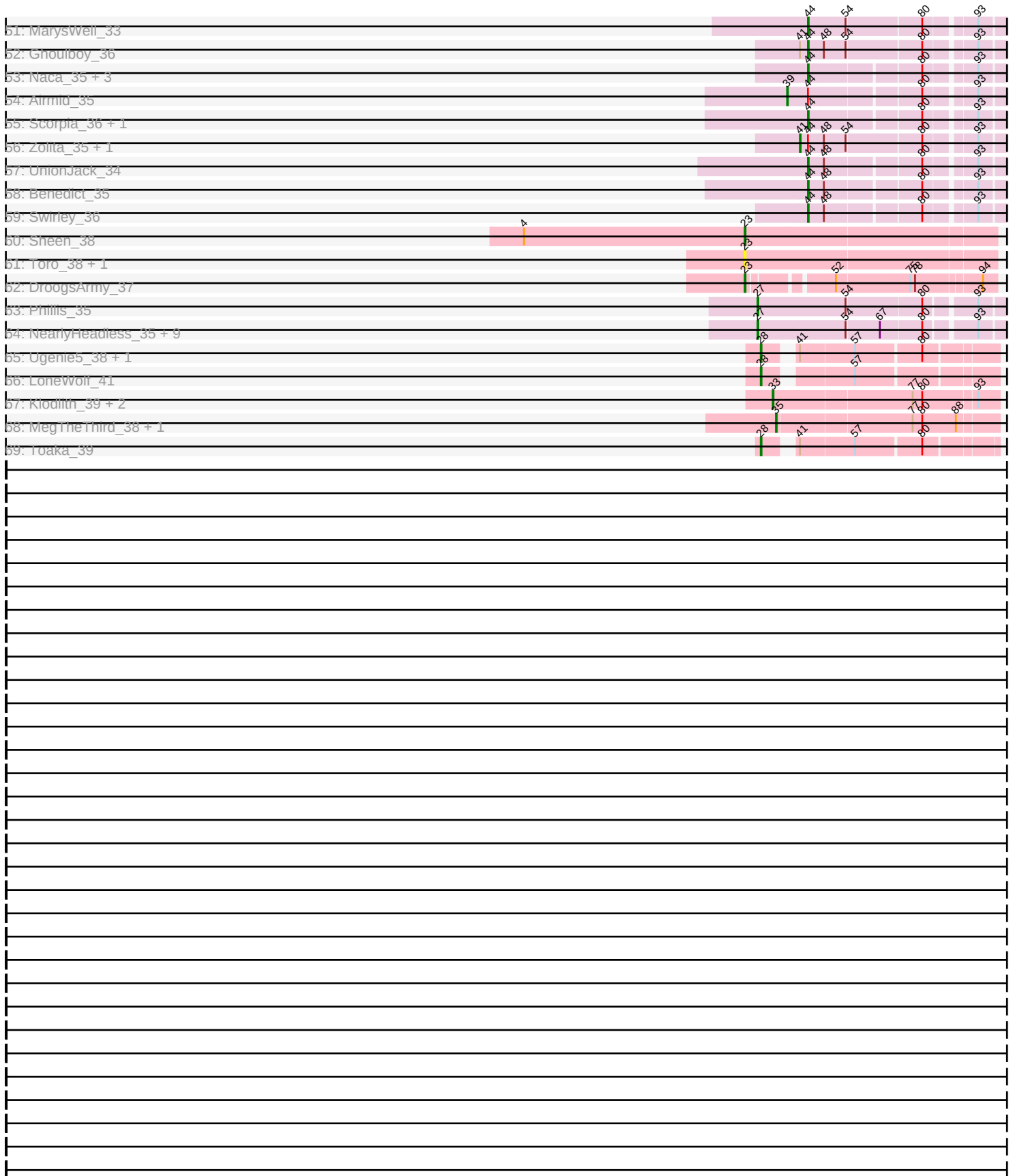


Pham 330369





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 330369 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330369 has 352 members, 33 are drafts.

Phages represented in each track:

- Track 1 : LilBib_43
- Track 2 : Marco3_44
- Track 3 : Jasper_44, Dreamboat_44
- Track 4 : Sagefire_45
- Track 5 : Paraselene_41, Rutherford_45
- Track 6 : MilleFeuille_42
- Track 7 : DustyMartin_43, Shapes_43, RhynO_40, Rowdy_43
- Track 8 : DontArgue_38
- Track 9 : Epsocamisio_40, LastResort_40, Rosalind_40, Waits_40, Nebulosus_40, Oofda_40, ReMo_40, Looper_41
- Track 10 : Anon_38
- Track 11 : Ravana_41
- Track 12 : MyraDee_36
- Track 13 : LadyBird_41
- Track 14 : XianYue_38
- Track 15 : Herbertwm_35
- Track 16 : BabyBack_39
- Track 17 : Adzzy_40
- Track 18 : GaugeLDP_39
- Track 19 : CRB1_40
- Track 20 : NothingSpecial_39
- Track 21 : Idleandcovert_40, Pistachio_41, MA5_40, Clammy_40, JF2_40, SaturnRing_40, BlueBird_41, Giroux_41, MK4_40, Isca_39, Rockstar_40, Bugatti_40, JF4_40, Phantastic_40, B1_37
- Track 22 : Pembroke_43, MarQuardt_43, SoYo_43, DaHudson_43, StepMih_43, MadMarie_43, MuchMore_46, BreSam8_43, Marie_43, Tiffany_43, Farber_43, JenCasNa_44, Lowa_43, JHC117_43, Bigflo_43, Hercules11_43, Microwolf_43, Montavir_42, Taurus_44, Fernando_43, Colbster_43, Grif_43, Jobu08_42, Grum1_43, PotatoSplit_45, AugsMagnumOpus_46, LBerry_44, P28Green_44, GtownJaz_43, Vix_43, Stagni_43, MoneyMay_43, Mainiac_43, Cullens_43, Gwennie_43, Malinsilva_45, Sabinator_42, Wooldri_45, SoilDragon_43, Croquant_44, Sabia_43, Lilith_44, Watson_43, Snickers_43, Phoebe_44, Grub_43, Dieselweasel_44, Beauxregard13_43, LugYA_46, Zetzy_42, PGHhamlin_45, Penny1_44, EpicPhail_44
- Track 23 : Reba_43, Calvinny_43, Marius_44, Groupthink_44, PurpleHaze_43, Kalb97_44, JeppNRM_44, Pawn_43, Phranny_44, Heliosoles_42, Manu_43, PhishRPhriends_41, Kalnoky_44, Gemma_42

- Track 24 : Heathen_40, Roimos_40, DropBear_40, Goose1X_40, Kachowdy_40, HelDan_40, Marchesa_40, Zarafa_40, Goose1D_34, Shep_40
- Track 25 : Aglet_44, GinkgoMaracino_43, Ollie_43, Anubis_46
- Track 26 : BabyJohn_38, Chiqui_38
- Track 27 : HaveUMetTed_44, OlanP_42
- Track 28 : BuzzBuzz_41, Soshari_45, Daishi_42, Misomonster_44, LarryKay_43, Rummer_42, KADY_43, HashRod_44, Methuselah_41, Louie6_42, Phoxy_43, Bxz2_39, Spike509_43, TinyPebbles_42, AgronaGT15_42
- Track 29 : ClownCar_43, ACFishhook_42
- Track 30 : Fred313_40
- Track 31 : TNguyen7_40, Puppy_41
- Track 32 : Scout_40
- Track 33 : HamSlice_37, Pumbaa_38, Melvin_40, Bartimeaus_38, Wilbur_38, Bruiser_37, Koreni_37, Albee_38, TygerBlood_38, SteMason_38, RockieBear_38, Flux_38, Phontbonne_38, Mazhar510_38, Bombshell_38, Junimo_38, TiroTheta9_38, Sparxx_39, Sabertooth_38, KekoraPapaka_39, OKaNui_39, JoongJeon_38, Millski_37, PeterPeter_38, Broseidon_38, Phelipe_39, Lorenzo_38, Avle17_38, Alberto7_39, Tinybot_37, Relief_37, TinaFeyge_39, CentreCat_38, Deano_38, Thanksgivukkah_38, Nemo27_38, Lemur_38, Eris_37, LittleB_38, Caelakin_38, Druantia_38, Wander_38, Holli_37, Skipitt_37, Kingmustik0402_38, Romney_38, Skadoosh_40, Jaykayelowell_37, BubbleTrouble_38, Huxley_38, Spino_38, Roosevelt_37, Cocoaberry_38, TroyPia_39, Taquarus_38, Kyee_38, Baby16_38, Buckaroo_38, Scamp_38, Commander_38, Ulysses_37, ChapH_38, Nyxis_38, ICleared_38, Maverick_38, Iceman_39, Phacado_38, Koan_37, Peaches_38, Northrop_39, Eapen_38, Shaka_38, Mayonnaise_38, JetBlade_38, Connomayer_38, KFPoly_38, Florean_38, Dhanush_38, Gadost_38, Funston_38, LittleGuy_38, Wizard007_38, Lunsford_39, NotAPhaseMom_38, Sultana_38, YoSam321_38, MeeZee_38, Blackmoor_38, Rocksand_39, Houdini22_38, Happiness_37, Eros_38, Burger_36, Clarenza_38, LappelDuVide_38
- Track 34 : Morpher26_37, Datway_37, PetiteSangsue_37, Katalie136_37, Wile_37, AbbysRanger_37, Achebe_36, Perplexer_37, Backyardigan_36, Badger_36, Bumblebee11_36, Xena_36, Cici_37
- Track 35 : Arturo_36
- Track 36 : Ruin_38
- Track 37 : Nebs_39, Abdiel_38, Mundrea_36, Kamy_38, Rosa24_38, BellusTerra_39, Eurydice_39, Eagle_38, NorthStar_37, Ohfah_39, LeoAvram_38, Polymorphads_39, Citius_38, Medusa_38, Morrow_39, Iracema64_39, Maxo_39
- Track 38 : LochMonster_38
- Track 39 : Cintron_38, Shygu2_37
- Track 40 : AvatarAhPeg_37, Stink_38, Miramae_37
- Track 41 : SheldonCooper_40, LHTSCC_40, Obama12_39, ChampagnePapi_40, BangNhom_39, Cerulean_39
- Track 42 : Phighter1804_38
- Track 43 : Camperdownii_37
- Track 44 : DirtyDunning_37
- Track 45 : Kratark_38, Kremtemulon_38
- Track 46 : Noelle_38
- Track 47 : SenorClean_38
- Track 48 : Palestino_37
- Track 49 : George_33
- Track 50 : LittleCherry_34, Prinashe11_35, Coog_34, Bonamassa_34, HuhtaEnerson15_34, Micasa_36, Archetta_34, Cuco_34, Milcery_34, Twigg_34, Tarynearal_33, Theia_32, Midas2_34

- Track 51 : MarysWell_33
- Track 52 : Ghoulboy_36
- Track 53 : Naca_35, ElTiger69_35, PetterN_36, Jabiru_35
- Track 54 : Airmid_35
- Track 55 : Scorpiä_36, Chadwick_36
- Track 56 : Zolita_35, SydNat_36
- Track 57 : UnionJack_34
- Track 58 : Benedict_35
- Track 59 : Swirley_36
- Track 60 : Sheen_38
- Track 61 : Toro_38, FlyCatcher_40
- Track 62 : DroogsArmy_37
- Track 63 : Phillis_35
- Track 64 : NearlyHeadless_35, Stephig9_35, Groundhog_34, Roary_35, Danforth_34, Astro_35, Dixon_35, Smeadley_35, Caitlin_35, Expelliarmus_34
- Track 65 : Ugenie5_38, Scherzo_41
- Track 66 : LoneWolf_41
- Track 67 : Klodlith_39, Charm_38, DreamTeam1_38
- Track 68 : MegTheThird_38, Celestiallunch_37
- Track 69 : Toaka_39

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

The start number called the most often in the published annotations is 36, it was called in 114 of the 319 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Abdiel_38, Albee_38, Alberto7_39, Arturo_36, Avle17_38, Baby16_38, Bartimeaus_38, BellusTerra_39, Blackmoor_38, Bombshell_38, Broseidon_38, Bruiser_37, BubbleTrouble_38, Buckaroo_38, Burger_36, Caelakin_38, CentreCat_38, Chaph_38, Citius_38, Clarenza_38, Cocoaberry_38, Commander_38, Connomayer_38, Deano_38, Dhanush_38, DontArgue_38, Druantia_38, DustyMartin_43, Eagle_38, Eapen_38, Eris_37, Eros_38, Eurydice_39, Florean_38, Flux_38, Funston_38, Gadost_38, HamSlice_37, Happiness_37, Holli_37, Houdini22_38, Huxley_38, ICleared_38, Iceman_39, Iracema64_39, Jaykayelowell_37, JetBlade_38, JoongJeon_38, Junimo_38, KFPoly_38, Kampy_38, KekoraPapaka_39, Kingmustik0402_38, Koan_37, Koreni_37, Kratak_38, Kremtemulon_38, Kyee_38, LappelDuVide_38, Lemur_38, LeoAvram_38, LittleB_38, LittleGuy_38, LochMonster_38, Lorenzo_38, Lunsford_39, Maverick_38, Maxo_39, Mayonnaise_38, Mazhar510_38, Medusa_38, MeeZee_38, Melvin_40, Millski_37, Morrow_39, Mundrea_36, MyraDee_36, Nebs_39, Nemo27_38, Noelle_38, NorthStar_37, Northrop_39, NotAPhaseMom_38, Nyxis_38, OKaNui_39, Ohfah_39, Peaches_38, PeterPeter_38, Phacado_38, Phelipe_39, Phighter1804_38, Phontbonne_38, Polymorphads_39, Pumbaa_38, Relief_37, RhynO_40, RockieBear_38, Rocksand_39, Romney_38, Roosevelt_37, Rosa24_38, Rowdy_43, Ruin_38, Sabertooth_38, Scamp_38, SenorClean_38, Shaka_38, Shapes_43, Skadoosh_40, Skipitt_37, Sparxx_39, Spino_38, SteMason_38, Sultana_38, Taquarus_38, Thanksgivukkah_38, TinaFeyge_39, Tinybot_37, TiroTheta9_38, TroyPia_39, TygerBlood_38, Ulysses_37, Wander_38, Wilbur_38, Wizard007_38, YoSam321_38,

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

- Camperdownii_37, Palestino_37,

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

- ACFishhook_42, AbbysRanger_37, Achebe_36, Adzzy_40, Aglet_44, AgronaGT15_42, Airmid_35, Anon_38, Anubis_46, Archetta_34, Astro_35, AugsMagnumOpus_46, AvatarAhPeg_37, B1_37, BabyBack_39, BabyJohn_38, Backyardigan_36, Badger_36, BangNhom_39, Beauxregard13_43, Benedict_35, Bigflo_43, BlueBird_41, Bonamassa_34, BreSam8_43, Bugatti_40, Bumblebee11_36, BuzzBuzz_41, Bxz2_39, CRB1_40, Caitlin_35, Calvinny_43, Celestiallunch_37, Cerulean_39, Chadwick_36, ChampagnePapi_40, Charm_38, Chiqui_38, Cici_37, Cintron_38, Clammy_40, ClownCar_43, Colbster_43, Coog_34, Croquant_44, Cuco_34, Cullens_43, DaHudson_43, Daishi_42, Danforth_34, Datway_37, Dieselweasel_44, DirtyDunning_37, Dixon_35, DreamTeam1_38, Dreamboat_44, DroogsArmy_37, DropBear_40, ElTiger69_35, EpicPhail_44, Epsocamisiö_40, Expelliarmus_34, Farber_43, Fernando_43, FlyCatcher_40, Fred313_40, GaugeLDP_39, Gemma_42, George_33, Ghoulboy_36, GingkoMaracino_43, Giroux_41, Goose1D_34, Goose1X_40, Grif_43, Groundhog_34, Groupthink_44, Grub_43, Grum1_43, GtownJaz_43, Gwennie_43, HashRod_44, HaveUMetTed_44, Heathen_40, HelDan_40, Heliosoles_42, Herbertwm_35, Hercules11_43, HuhtaEnerson15_34, Idleandcovert_40, Isca_39, JF2_40, JF4_40, JHC117_43, Jabiru_35, Jasper_44, JenCasNa_44, JeppNRM_44, Jobu08_42, KADY_43, Kachowdy_40, Kalb97_44, Kalnoky_44, Katalie136_37, Klodlith_39, LBerry_44, LHTSCC_40, LadyBird_41, LarryKay_43, LastResort_40, LilBib_43, Lilith_44, LittleCherry_34, LoneWolf_41, Looper_41, Louie6_42, Lowa_43, LugYA_46, MA5_40, MK4_40, MadMarie_43, Mainiac_43, Malinsilva_45, Manu_43, MarQuardt_43, Marchesa_40, Marco3_44, Marie_43, Marius_44, MarysWell_33, MegTheThird_38, Methuselah_41, Micasa_36, Microwolf_43, Midas2_34, Milcery_34, MilleFeuille_42, Miramae_37, Misomonster_44, MoneyMay_43, Montavir_42, Morpher26_37, MuchMore_46, Naca_35, NearlyHeadless_35, Nebulosus_40, NothingSpecial_39, Obama12_39, OlanP_42, Ollie_43, Oofda_40, P28Green_44, PGHhamlin_45, Paraselene_41, Pawn_43, Pembroke_43, Penny1_44, Perplexer_37, PetiteSangsue_37, PetterN_36, Phantastic_40, Phillis_35, PhishRPhriends_41, Phoebe_44, Phoxy_43, Phranny_44, Pistachio_41, PotatoSplit_45, Prinashe11_35, Puppy_41, PurpleHaze_43, Ravana_41, ReMo_40, Reba_43, Roary_35, Rockstar_40, Roimos_40, Rosalind_40, Rummer_42, Rutherferd_45, Sabia_43, Sabinator_42, Sagefire_45, SaturnRing_40, Scherzo_41, Scorpia_36, Scout_40, Sheen_38, SheldonCooper_40, Shep_40, Shygu2_37, Smeadley_35, Snickers_43, SoYo_43, SoilDragon_43, Soshari_45, Spike509_43, Stagni_43, StepMih_43, Stephig9_35, Stink_38, Swirley_36, SydNat_36, TNguyen7_40, Taryneara_33, Taurus_44, Theia_32, Tiffany_43, TinyPebbles_42, Toaka_39, Toro_38, Twigg_34, Ugenie5_38, UnionJack_34, Vix_43, Waits_40, Watson_43, Wile_37, Wooldri_45, Xena_36, XianYue_38, Zarafa_40, Zetzy_42, Zolita_35,

Summary by start number:

Start 19:

- Found in 25 of 352 (7.1%) of genes in pham
- Manual Annotations of this start: 25 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbysRanger_37 (A4), Achebe_36 (A4), AvatarAhPeg_37 (A4), Backyardigan_36 (A4), Badger_36 (A4), BangNhom_39 (A4),

Bumblebee11_36 (A4), Cerulean_39 (A4), ChampagnePapi_40 (A4), Cici_37 (A4), Cintron_38 (A4), Datway_37 (A4), DirtyDunning_37 (A4), Katalie136_37 (A4), LHTSCC_40 (A4), Miramae_37 (A4), Morpher26_37 (A4), Obama12_39 (A4), Perplexer_37 (A4), PetiteSangsue_37 (A4), SheldonCooper_40 (A4), Shygu2_37 (A4), Stink_38 (A4), Wile_37 (A4), Xena_36 (A4),

Start 22:

- Found in 122 of 352 (34.7%) of genes in pham
- Manual Annotations of this start: 1 of 319
- Called 0.8% of time when present
- Phage (with cluster) where this start called: Camperdownii_37 (A4),

Start 23:

- Found in 4 of 352 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DroogsArmy_37 (A7), FlyCatcher_40 (A7), Sheen_38 (A7), Toro_38 (A7),

Start 25:

- Found in 18 of 352 (5.1%) of genes in pham
- Manual Annotations of this start: 18 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ACFishhook_42 (A3), Calvinny_43 (A3), ClownCar_43 (A3), Gemma_42 (A3), Groupthink_44 (A3), HaveUMetTed_44 (A3), Heliosoles_42 (A3), JeppNRM_44 (A3), Kalb97_44 (A3), Kalnoky_44 (A3), Manu_43 (A3), Marius_44 (A3), OlanP_42 (A3), Pawn_43 (A3), PhishRPhriends_41 (A3), Phranny_44 (A3), PurpleHaze_43 (A3), Reba_43 (A3),

Start 26:

- Found in 1 of 352 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Herbertwm_35 (A2),

Start 27:

- Found in 11 of 352 (3.1%) of genes in pham
- Manual Annotations of this start: 11 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Astro_35 (A8), Caitlin_35 (A8), Danforth_34 (A8), Dixon_35 (A8), Expelliarmus_34 (A8), Groundhog_34 (A8), NearlyHeadless_35 (A8), Phillis_35 (A8), Roary_35 (A8), Smeadley_35 (A8), Stephig9_35 (A8),

Start 28:

- Found in 6 of 352 (1.7%) of genes in pham
- Manual Annotations of this start: 4 of 319
- Called 66.7% of time when present
- Phage (with cluster) where this start called: LoneWolf_41 (A9), Scherzo_41 (A9), Toaka_39 (A9), Ugenie5_38 (A9),

Start 29:

- Found in 8 of 352 (2.3%) of genes in pham

- Manual Annotations of this start: 8 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dreamboat_44 (A1), Jasper_44 (A1), LilBib_43 (A1), Marco3_44 (A1), MilleFeuille_42 (A1), Paraselene_41 (A1), Rutherford_45 (A1), Sagefire_45 (A1),

Start 31:

- Found in 10 of 352 (2.8%) of genes in pham
- Manual Annotations of this start: 10 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon_38 (A15), Epsocamisio_40 (A15), LastResort_40 (A15), Looper_41 (A15), Nebulosus_40 (A15), Oofda_40 (A15), Ravana_41 (A15), ReMo_40 (A15), Rosalind_40 (A15), Waits_40 (A15),

Start 32:

- Found in 2 of 352 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CRB1_40 (A2), LadyBird_41 (A2),

Start 33:

- Found in 8 of 352 (2.3%) of genes in pham
- Manual Annotations of this start: 7 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adzzy_40 (A2), BabyBack_39 (A2), Charm_38 (A9), DreamTeam1_38 (A9), GaugeLDP_39 (A2), Klodlith_39 (A9), NothingSpecial_39 (A2), XianYue_38 (A2),

Start 35:

- Found in 2 of 352 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Celestiallunch_37 (A9), MegTheThird_38 (A9),

Start 36:

- Found in 128 of 352 (36.4%) of genes in pham
- Manual Annotations of this start: 114 of 319
- Called 98.4% of time when present
- Phage (with cluster) where this start called: Abdiel_38 (A4), Albee_38 (A4), Alberto7_39 (A4), Arturo_36 (A4), Avle17_38 (A4), Baby16_38 (A4), Bartimeaus_38 (A4), BellusTerra_39 (A4), Blackmoor_38 (A4), Bombshell_38 (A4), Broseidon_38 (A4), Bruiser_37 (A4), BubbleTrouble_38 (A4), Buckaroo_38 (A4), Burger_36 (A4), Caelakin_38 (A4), CentreCat_38 (A4), Chaph_38 (A4), Citius_38 (A4), Clarenza_38 (A4), Cocoaberry_38 (A4), Commander_38 (A4), Connomayer_38 (A4), Deano_38 (A4), Dhanush_38 (A4), DontArgue_38 (A10), Druantia_38 (A4), DustyMartin_43 (A10), Eagle_38 (A4), Eapen_38 (A4), Eris_37 (A4), Eros_38 (A4), Eurydice_39 (A4), Florean_38 (A4), Flux_38 (A4), Funston_38 (A4), Gadost_38 (A4), HamSlice_37 (A4), Happiness_37 (A4), Holli_37 (A4), Houdini22_38 (A4), Huxley_38 (A4), ICleared_38 (A4), Iceman_39 (A4), Iracema64_39 (A4), Jaykayelowell_37 (A4), JetBlade_38 (A4), JoongJeon_38 (A4), Junimo_38 (A4), KFPoly_38 (A4), Kampy_38 (A4), KekoraPapaka_39 (A4), Kingmustik0402_38 (A4), Koan_37 (A4), Koreni_37 (A4), Kratark_38 (A4), Kremtemulon_38 (A4), Kyee_38 (A4), LappelDuVide_38 (A4),

Lemur_38 (A4), LeoAvram_38 (A4), LittleB_38 (A4), LittleGuy_38 (A4), LochMonster_38 (A4), Lorenzo_38 (A4), Lunsford_39 (A4), Maverick_38 (A4), Maxo_39 (A4), Mayonnaise_38 (A4), Mazhar510_38 (A4), Medusa_38 (A4), MeeZee_38 (A4), Melvin_40 (A4), Millski_37 (A4), Morrow_39 (A4), Mundrea_36 (A4), MyraDee_36 (A18), Nebs_39 (A4), Nemo27_38 (A4), Noelle_38 (A4), NorthStar_37 (A4), Northrop_39 (A4), NotAPhaseMom_38 (A4), Nyxis_38 (A4), OKaNui_39 (A4), Ohfah_39 (A4), Peaches_38 (A4), PeterPeter_38 (A4), Phacado_38 (A4), Phelipe_39 (A4), Phighter1804_38 (A4), Phontbonne_38 (A4), Polymorphads_39 (A4), Pumbaa_38 (A4), Relief_37 (A4), RhynO_40 (A10), RockieBear_38 (A4), Rocksand_39 (A4), Romney_38 (A4), Roosevelt_37 (A4), Rosa24_38 (A4), Rowdy_43 (A10), Ruin_38 (A4), Sabertooth_38 (A4), Scamp_38 (A4), SenorClean_38 (A4), Shaka_38 (A4), Shapes_43 (A10), Skadoosh_40 (A4), Skipitt_37 (A4), Sparxx_39 (A4), Spino_38 (A4), SteMason_38 (A4), Sultana_38 (A4), Taquarus_38 (A4), Thanksgivukkah_38 (A4), TinaFeyge_39 (A4), Tinybot_37 (A4), TiroTheta9_38 (A4), TroyPia_39 (A4), TygerBlood_38 (A4), Ulysses_37 (A4), Wander_38 (A4), Wilbur_38 (A4), Wizard007_38 (A4), YoSam321_38 (A4),

Start 37:

- Found in 31 of 352 (8.8%) of genes in pham
- Manual Annotations of this start: 20 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: B1_37 (A3), BabyJohn_38 (A3), BlueBird_41 (A3), Bugatti_40 (A3), Chiqui_38 (A3), Clammy_40 (A3), DropBear_40 (A3), Fred313_40 (A3), Giroux_41 (A3), Goose1D_34 (A3), Goose1X_40 (A3), Heathen_40 (A3), HelDan_40 (A3), Idleandcovert_40 (A3), Isca_39 (A3), JF2_40 (A3), JF4_40 (A3), Kachowdy_40 (A3), MA5_40 (A3), MK4_40 (A3), Marchesa_40 (A3), Phantastic_40 (A3), Pistachio_41 (A3), Puppy_41 (A3), Rockstar_40 (A3), Roimos_40 (A3), SaturnRing_40 (A3), Scout_40 (A3), Shep_40 (A3), TNguyen7_40 (A3), Zarafa_40 (A3),

Start 38:

- Found in 72 of 352 (20.5%) of genes in pham
- Manual Annotations of this start: 68 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aglet_44 (A3), AgronaGT15_42 (A3), Anubis_46 (A3), AugsMagnumOpus_46 (A3), Beauxregard13_43 (A3), Bigflo_43 (A3), BreSam8_43 (A3), BuzzBuzz_41 (A3), Bxz2_39 (A3), Colbster_43 (A3), Croquant_44 (A3), Cullens_43 (A3), DaHudson_43 (A3), Daishi_42 (A3), Dieselweasel_44 (A3), EpicPhail_44 (A3), Farber_43 (A3), Fernando_43 (A3), GingkoMaracino_43 (A3), Grif_43 (A3), Grub_43 (A3), Grum1_43 (A3), GtownJaz_43 (A3), Gwennie_43 (A3), HashRod_44 (A3), Hercules11_43 (A3), JHC117_43 (A3), JenCasNa_44 (A3), Jobu08_42 (A3), KADY_43 (A3), LBerry_44 (A3), LarryKay_43 (A3), Lilith_44 (A3), Louie6_42 (A3), Lowa_43 (A3), LugYA_46 (A3), MadMarie_43 (A3), Mainiac_43 (A3), Malinsilva_45 (A3), MarQuardt_43 (A3), Marie_43 (A3), Methuselah_41 (A3), Microwolf_43 (A3), Misomonster_44 (A3), MoneyMay_43 (A3), Montavir_42 (A3), MuchMore_46 (A3), Ollie_43 (A3), P28Green_44 (A3), PGHhamlin_45 (A3), Pembroke_43 (A3), Penny1_44 (A3), Phoebe_44 (A3), Phoxy_43 (A3), PotatoSplit_45 (A3), Rummer_42 (A3), Sabia_43 (A3), Sabinator_42 (A3), Snickers_43 (A3), SoYo_43 (A3), SoilDragon_43 (A3), Soshari_45 (A3), Spike509_43 (A3), Stagni_43 (A3), StepMih_43 (A3), Taurus_44 (A3), Tiffany_43 (A3), TinyPebbles_42 (A3), Vix_43 (A3), Watson_43 (A3), Wooldri_45 (A3), Zetzy_42 (A3),

Start 39:

- Found in 1 of 352 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 319
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Airmid_35 (A5),

Start 41:

- Found in 6 of 352 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 319
- Called 33.3% of time when present
- Phage (with cluster) where this start called: SydNat_36 (A5), Zolita_35 (A5),

Start 42:

- Found in 156 of 352 (44.3%) of genes in pham
- Manual Annotations of this start: 1 of 319
- Called 0.6% of time when present
- Phage (with cluster) where this start called: Palestino_37 (A4),

Start 44:

- Found in 28 of 352 (8.0%) of genes in pham
- Manual Annotations of this start: 23 of 319
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Archetta_34 (A5), Benedict_35 (A5), Bonamassa_34 (A5), Chadwick_36 (A5), Coog_34 (A5), Cuco_34 (A5), EITiger69_35 (A5), Ghoulboy_36 (A5), HuhtaEnerson15_34 (A5), Jabiru_35 (A5), LittleCherry_34 (A5), MarysWell_33 (A5), Micasa_36 (A5), Midas2_34 (A5), Milcery_34 (A5), Naca_35 (A5), PetterN_36 (A5), Prinash11_35 (A5), Scorpia_36 (A5), Swirley_36 (A5), Tarynearal_33 (A5), Theia_32 (A5), Twigg_34 (A5), UnionJack_34 (A5),

Start 48:

- Found in 166 of 352 (47.2%) of genes in pham
- Manual Annotations of this start: 1 of 319
- Called 0.6% of time when present
- Phage (with cluster) where this start called: George_33 (A5),

Summary by clusters:

There are 11 clusters represented in this pham: A15, A10, A18, A1, A3, A2, A5, A4, A7, A9, A8,

Info for manual annotations of cluster A1:

- Start number 29 was manually annotated 8 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 36 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A15:

- Start number 31 was manually annotated 10 times for cluster A15.

Info for manual annotations of cluster A18:

- Start number 36 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:

- Start number 26 was manually annotated 1 time for cluster A2.
- Start number 32 was manually annotated 1 time for cluster A2.
- Start number 33 was manually annotated 5 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 25 was manually annotated 18 times for cluster A3.
- Start number 37 was manually annotated 20 times for cluster A3.
- Start number 38 was manually annotated 68 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 19 was manually annotated 25 times for cluster A4.
- Start number 22 was manually annotated 1 time for cluster A4.
- Start number 36 was manually annotated 112 times for cluster A4.
- Start number 42 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A5:

- Start number 39 was manually annotated 1 time for cluster A5.
- Start number 41 was manually annotated 2 times for cluster A5.
- Start number 44 was manually annotated 23 times for cluster A5.
- Start number 48 was manually annotated 1 time for cluster A5.

Info for manual annotations of cluster A7:

- Start number 23 was manually annotated 2 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 27 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 28 was manually annotated 4 times for cluster A9.
- Start number 33 was manually annotated 2 times for cluster A9.
- Start number 35 was manually annotated 1 time for cluster A9.

Gene Information:

Gene: ACFishhook_42 Start: 29061, Stop: 28756, Start Num: 25

Candidate Starts for ACFishhook_42:

(5, 29307), (6, 29289), (8, 29268), (15, 29157), (17, 29145), (Start: 25 @29061 has 18 MA's), (40, 29007), (49, 28968), (54, 28944), (80, 28857), (93, 28794),

Gene: AbbysRanger_37 Start: 28220, Stop: 27960, Start Num: 19

Candidate Starts for AbbysRanger_37:

(Start: 19 @28220 has 25 MA's), (Start: 42 @28193 has 1 MA's), (Start: 48 @28166 has 1 MA's), (65, 28106), (82, 28043), (93, 27986),

Gene: Abdiel_38 Start: 28375, Stop: 28109, Start Num: 36

Candidate Starts for Abdiel_38:

(12, 28537), (Start: 22 @28423 has 1 MA's), (Start: 36 @28375 has 114 MA's), (Start: 42 @28345 has 1 MA's), (Start: 48 @28318 has 1 MA's), (65, 28258), (68, 28243), (93, 28141),

Gene: Achebe_36 Start: 28203, Stop: 27943, Start Num: 19

Candidate Starts for Achebe_36:

(Start: 19 @28203 has 25 MA's), (Start: 42 @28176 has 1 MA's), (Start: 48 @28149 has 1 MA's), (65, 28089), (82, 28026), (93, 27969),

Gene: Adzzy_40 Start: 26940, Stop: 26704, Start Num: 33

Candidate Starts for Adzzy_40:

(Start: 33 @26940 has 7 MA's), (61, 26856), (73, 26826), (74, 26823), (92, 26742), (93, 26739),

Gene: Aglet_44 Start: 29103, Stop: 28864, Start Num: 38

Candidate Starts for Aglet_44:

(Start: 38 @29103 has 68 MA's), (62, 29022), (69, 28995), (80, 28956), (93, 28902),

Gene: AgronaGT15_42 Start: 28921, Stop: 28682, Start Num: 38

Candidate Starts for AgronaGT15_42:

(15, 29053), (Start: 38 @28921 has 68 MA's), (69, 28813), (80, 28774), (93, 28720),

Gene: Airmid_35 Start: 27047, Stop: 26814, Start Num: 39

Candidate Starts for Airmid_35:

(Start: 39 @27047 has 1 MA's), (Start: 44 @27023 has 23 MA's), (80, 26897), (93, 26843),

Gene: Albee_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Albee_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Alberto7_39 Start: 28714, Stop: 28448, Start Num: 36

Candidate Starts for Alberto7_39:

(12, 28876), (Start: 22 @28762 has 1 MA's), (Start: 36 @28714 has 114 MA's), (Start: 42 @28684 has 1 MA's), (Start: 48 @28657 has 1 MA's), (65, 28597), (93, 28480),

Gene: Anon_38 Start: 26419, Stop: 26123, Start Num: 31

Candidate Starts for Anon_38:

(7, 26665), (13, 26569), (Start: 31 @26419 has 10 MA's), (46, 26374), (54, 26341), (55, 26338), (70, 26287), (71, 26275), (83, 26236), (89, 26203), (91, 26194),

Gene: Anubis_46 Start: 28988, Stop: 28749, Start Num: 38

Candidate Starts for Anubis_46:

(Start: 38 @28988 has 68 MA's), (62, 28907), (69, 28880), (80, 28841), (93, 28787),

Gene: Archetta_34 Start: 27563, Stop: 27351, Start Num: 44

Candidate Starts for Archetta_34:

(Start: 44 @27563 has 23 MA's), (Start: 48 @27545 has 1 MA's), (54, 27518), (80, 27437), (93, 27383),

Gene: Arturo_36 Start: 28433, Stop: 28167, Start Num: 36

Candidate Starts for Arturo_36:

(Start: 22 @28481 has 1 MA's), (Start: 36 @28433 has 114 MA's), (Start: 42 @28403 has 1 MA's), (Start: 48 @28376 has 1 MA's), (65, 28316), (68, 28301), (93, 28199),

Gene: Astro_35 Start: 26960, Stop: 26682, Start Num: 27

Candidate Starts for Astro_35:

(Start: 27 @26960 has 11 MA's), (54, 26855), (67, 26816), (80, 26768), (93, 26714),

Gene: AugsMagnumOpus_46 Start: 29094, Stop: 28855, Start Num: 38

Candidate Starts for AugsMagnumOpus_46:

(Start: 38 @29094 has 68 MA's), (69, 28986), (80, 28947), (93, 28893),

Gene: AvatarAhPeg_37 Start: 28735, Stop: 28475, Start Num: 19

Candidate Starts for AvatarAhPeg_37:

(Start: 19 @28735 has 25 MA's), (Start: 42 @28705 has 1 MA's), (Start: 48 @28678 has 1 MA's), (65, 28618), (68, 28603), (93, 28501),

Gene: Avle17_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Avle17_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: B1_37 Start: 27979, Stop: 27740, Start Num: 37

Candidate Starts for B1_37:

(Start: 37 @27979 has 20 MA's), (69, 27871), (80, 27832), (93, 27778),

Gene: Baby16_38 Start: 28385, Stop: 28119, Start Num: 36

Candidate Starts for Baby16_38:

(12, 28547), (Start: 22 @28433 has 1 MA's), (Start: 36 @28385 has 114 MA's), (Start: 42 @28355 has 1 MA's), (Start: 48 @28328 has 1 MA's), (65, 28268), (93, 28151),

Gene: BabyBack_39 Start: 29153, Stop: 28929, Start Num: 33

Candidate Starts for BabyBack_39:

(16, 29267), (Start: 33 @29153 has 7 MA's), (61, 29069), (66, 29063), (75, 29027), (80, 29012), (93, 28955),

Gene: BabyJohn_38 Start: 28749, Stop: 28510, Start Num: 37

Candidate Starts for BabyJohn_38:

(Start: 37 @28749 has 20 MA's), (58, 28671), (69, 28641), (80, 28602), (93, 28548),

Gene: Backyardigan_36 Start: 28236, Stop: 27976, Start Num: 19

Candidate Starts for Backyardigan_36:

(Start: 19 @28236 has 25 MA's), (Start: 42 @28209 has 1 MA's), (Start: 48 @28182 has 1 MA's), (65, 28122), (82, 28059), (93, 28002),

Gene: Badger_36 Start: 28204, Stop: 27944, Start Num: 19

Candidate Starts for Badger_36:

(Start: 19 @28204 has 25 MA's), (Start: 42 @28177 has 1 MA's), (Start: 48 @28150 has 1 MA's), (65, 28090), (82, 28027), (93, 27970),

Gene: BangNhom_39 Start: 28676, Stop: 28410, Start Num: 19

Candidate Starts for BangNhom_39:

(1, 29540), (2, 29273), (3, 28958), (7, 28850), (10, 28826), (Start: 19 @28676 has 25 MA's), (Start: 42 @28646 has 1 MA's), (Start: 48 @28619 has 1 MA's), (65, 28559), (68, 28544), (93, 28442),

Gene: Bartimeaus_38 Start: 28376, Stop: 28110, Start Num: 36

Candidate Starts for Bartimeaus_38:

(12, 28538), (Start: 22 @28424 has 1 MA's), (Start: 36 @28376 has 114 MA's), (Start: 42 @28346 has 1 MA's), (Start: 48 @28319 has 1 MA's), (65, 28259), (93, 28142),

Gene: Beauxregard13_43 Start: 29105, Stop: 28866, Start Num: 38

Candidate Starts for Beauxregard13_43:

(Start: 38 @29105 has 68 MA's), (69, 28997), (80, 28958), (93, 28904),

Gene: BellusTerra_39 Start: 28375, Stop: 28109, Start Num: 36

Candidate Starts for BellusTerra_39:

(12, 28537), (Start: 22 @28423 has 1 MA's), (Start: 36 @28375 has 114 MA's), (Start: 42 @28345 has 1 MA's), (Start: 48 @28318 has 1 MA's), (65, 28258), (68, 28243), (93, 28141),

Gene: Benedict_35 Start: 27023, Stop: 26814, Start Num: 44

Candidate Starts for Benedict_35:

(Start: 44 @27023 has 23 MA's), (Start: 48 @27005 has 1 MA's), (80, 26897), (93, 26843),

Gene: Bigflo_43 Start: 29101, Stop: 28862, Start Num: 38

Candidate Starts for Bigflo_43:

(Start: 38 @29101 has 68 MA's), (69, 28993), (80, 28954), (93, 28900),

Gene: Blackmoor_38 Start: 28376, Stop: 28110, Start Num: 36

Candidate Starts for Blackmoor_38:

(12, 28538), (Start: 22 @28424 has 1 MA's), (Start: 36 @28376 has 114 MA's), (Start: 42 @28346 has 1 MA's), (Start: 48 @28319 has 1 MA's), (65, 28259), (93, 28142),

Gene: BlueBird_41 Start: 28604, Stop: 28365, Start Num: 37

Candidate Starts for BlueBird_41:

(Start: 37 @28604 has 20 MA's), (69, 28496), (80, 28457), (93, 28403),

Gene: Bombshell_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Bombshell_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Bonamassa_34 Start: 27357, Stop: 27145, Start Num: 44

Candidate Starts for Bonamassa_34:

(Start: 44 @27357 has 23 MA's), (Start: 48 @27339 has 1 MA's), (54, 27312), (80, 27231), (93, 27177),

Gene: BreSam8_43 Start: 29095, Stop: 28856, Start Num: 38

Candidate Starts for BreSam8_43:

(Start: 38 @29095 has 68 MA's), (69, 28987), (80, 28948), (93, 28894),

Gene: Broseidon_38 Start: 28376, Stop: 28110, Start Num: 36

Candidate Starts for Broseidon_38:

(12, 28538), (Start: 22 @28424 has 1 MA's), (Start: 36 @28376 has 114 MA's), (Start: 42 @28346 has 1 MA's), (Start: 48 @28319 has 1 MA's), (65, 28259), (93, 28142),

Gene: Bruiser_37 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Bruiser_37:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: BubbleTrouble_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for BubbleTrouble_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Buckaroo_38 Start: 28378, Stop: 28112, Start Num: 36

Candidate Starts for Buckaroo_38:

(12, 28540), (Start: 22 @28426 has 1 MA's), (Start: 36 @28378 has 114 MA's), (Start: 42 @28348 has 1 MA's), (Start: 48 @28321 has 1 MA's), (65, 28261), (93, 28144),

Gene: Bugatti_40 Start: 28604, Stop: 28365, Start Num: 37
Candidate Starts for Bugatti_40:
(Start: 37 @28604 has 20 MA's), (69, 28496), (80, 28457), (93, 28403),

Gene: Bumblebee11_36 Start: 28206, Stop: 27946, Start Num: 19
Candidate Starts for Bumblebee11_36:
(Start: 19 @28206 has 25 MA's), (Start: 42 @28179 has 1 MA's), (Start: 48 @28152 has 1 MA's), (65, 28092), (82, 28029), (93, 27972),

Gene: Burger_36 Start: 28374, Stop: 28108, Start Num: 36
Candidate Starts for Burger_36:
(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: BuzzBuzz_41 Start: 29100, Stop: 28861, Start Num: 38
Candidate Starts for BuzzBuzz_41:
(15, 29232), (Start: 38 @29100 has 68 MA's), (69, 28992), (80, 28953), (93, 28899),

Gene: Bxz2_39 Start: 29107, Stop: 28868, Start Num: 38
Candidate Starts for Bxz2_39:
(15, 29239), (Start: 38 @29107 has 68 MA's), (69, 28999), (80, 28960), (93, 28906),

Gene: CRB1_40 Start: 28593, Stop: 28357, Start Num: 32
Candidate Starts for CRB1_40:
(14, 28716), (16, 28704), (Start: 32 @28593 has 1 MA's), (93, 28389),

Gene: Caelakin_38 Start: 28374, Stop: 28108, Start Num: 36
Candidate Starts for Caelakin_38:
(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Caitlin_35 Start: 26953, Stop: 26675, Start Num: 27
Candidate Starts for Caitlin_35:
(Start: 27 @26953 has 11 MA's), (54, 26848), (67, 26809), (80, 26761), (93, 26707),

Gene: Calvinny_43 Start: 28989, Stop: 28684, Start Num: 25
Candidate Starts for Calvinny_43:
(5, 29235), (6, 29217), (8, 29196), (9, 29193), (15, 29085), (17, 29073), (Start: 25 @28989 has 18 MA's), (40, 28935), (49, 28896), (54, 28872), (80, 28785), (93, 28722),

Gene: Camperdownii_37 Start: 28095, Stop: 27802, Start Num: 22
Candidate Starts for Camperdownii_37:
(Start: 22 @28095 has 1 MA's), (Start: 36 @28047 has 114 MA's), (51, 27987), (76, 27903), (81, 27891), (84, 27882), (93, 27834),

Gene: Celestialunch_37 Start: 28004, Stop: 27747, Start Num: 35
Candidate Starts for Celestialunch_37:
(Start: 35 @28004 has 1 MA's), (77, 27848), (80, 27836), (88, 27794),

Gene: CentreCat_38 Start: 28377, Stop: 28111, Start Num: 36

Candidate Starts for CentreCat_38:

(12, 28539), (Start: 22 @28425 has 1 MA's), (Start: 36 @28377 has 114 MA's), (Start: 42 @28347 has 1 MA's), (Start: 48 @28320 has 1 MA's), (65, 28260), (93, 28143),

Gene: Cerulean_39 Start: 28677, Stop: 28411, Start Num: 19

Candidate Starts for Cerulean_39:

(1, 29541), (2, 29274), (3, 28959), (7, 28851), (10, 28827), (Start: 19 @28677 has 25 MA's), (Start: 42 @28647 has 1 MA's), (Start: 48 @28620 has 1 MA's), (65, 28560), (68, 28545), (93, 28443),

Gene: Chadwick_36 Start: 26926, Stop: 26717, Start Num: 44

Candidate Starts for Chadwick_36:

(Start: 44 @26926 has 23 MA's), (80, 26800), (93, 26746),

Gene: ChampagnePapi_40 Start: 28676, Stop: 28410, Start Num: 19

Candidate Starts for ChampagnePapi_40:

(1, 29540), (2, 29273), (3, 28958), (7, 28850), (10, 28826), (Start: 19 @28676 has 25 MA's), (Start: 42 @28646 has 1 MA's), (Start: 48 @28619 has 1 MA's), (65, 28559), (68, 28544), (93, 28442),

Gene: Chaph_38 Start: 28385, Stop: 28119, Start Num: 36

Candidate Starts for Chaph_38:

(12, 28547), (Start: 22 @28433 has 1 MA's), (Start: 36 @28385 has 114 MA's), (Start: 42 @28355 has 1 MA's), (Start: 48 @28328 has 1 MA's), (65, 28268), (93, 28151),

Gene: Charm_38 Start: 28141, Stop: 27875, Start Num: 33

Candidate Starts for Charm_38:

(Start: 33 @28141 has 7 MA's), (77, 27976), (80, 27964), (93, 27901),

Gene: Chiqui_38 Start: 28758, Stop: 28519, Start Num: 37

Candidate Starts for Chiqui_38:

(Start: 37 @28758 has 20 MA's), (58, 28680), (69, 28650), (80, 28611), (93, 28557),

Gene: Cici_37 Start: 28221, Stop: 27961, Start Num: 19

Candidate Starts for Cici_37:

(Start: 19 @28221 has 25 MA's), (Start: 42 @28194 has 1 MA's), (Start: 48 @28167 has 1 MA's), (65, 28107), (82, 28044), (93, 27987),

Gene: Cintron_38 Start: 28440, Stop: 28174, Start Num: 19

Candidate Starts for Cintron_38:

(Start: 19 @28440 has 25 MA's), (Start: 42 @28410 has 1 MA's), (Start: 48 @28383 has 1 MA's), (65, 28323), (93, 28206),

Gene: Citius_38 Start: 28395, Stop: 28129, Start Num: 36

Candidate Starts for Citius_38:

(12, 28557), (Start: 22 @28443 has 1 MA's), (Start: 36 @28395 has 114 MA's), (Start: 42 @28365 has 1 MA's), (Start: 48 @28338 has 1 MA's), (65, 28278), (68, 28263), (93, 28161),

Gene: Clammy_40 Start: 28604, Stop: 28365, Start Num: 37

Candidate Starts for Clammy_40:

(Start: 37 @28604 has 20 MA's), (69, 28496), (80, 28457), (93, 28403),

Gene: Clarenza_38 Start: 28371, Stop: 28105, Start Num: 36

Candidate Starts for Clarenza_38:

(12, 28533), (Start: 22 @28419 has 1 MA's), (Start: 36 @28371 has 114 MA's), (Start: 42 @28341 has 1 MA's), (Start: 48 @28314 has 1 MA's), (65, 28254), (93, 28137),

Gene: ClownCar_43 Start: 28982, Stop: 28677, Start Num: 25

Candidate Starts for ClownCar_43:

(5, 29228), (6, 29210), (8, 29189), (15, 29078), (17, 29066), (Start: 25 @28982 has 18 MA's), (40, 28928), (49, 28889), (54, 28865), (80, 28778), (93, 28715),

Gene: Cocoaberry_38 Start: 28378, Stop: 28112, Start Num: 36

Candidate Starts for Cocoaberry_38:

(12, 28540), (Start: 22 @28426 has 1 MA's), (Start: 36 @28378 has 114 MA's), (Start: 42 @28348 has 1 MA's), (Start: 48 @28321 has 1 MA's), (65, 28261), (93, 28144),

Gene: Colbster_43 Start: 29105, Stop: 28866, Start Num: 38

Candidate Starts for Colbster_43:

(Start: 38 @29105 has 68 MA's), (69, 28997), (80, 28958), (93, 28904),

Gene: Commander_38 Start: 28373, Stop: 28107, Start Num: 36

Candidate Starts for Commander_38:

(12, 28535), (Start: 22 @28421 has 1 MA's), (Start: 36 @28373 has 114 MA's), (Start: 42 @28343 has 1 MA's), (Start: 48 @28316 has 1 MA's), (65, 28256), (93, 28139),

Gene: Connomayer_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Connomayer_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Coog_34 Start: 27403, Stop: 27185, Start Num: 44

Candidate Starts for Coog_34:

(Start: 44 @27403 has 23 MA's), (Start: 48 @27385 has 1 MA's), (54, 27358), (80, 27271), (93, 27217),

Gene: Croquant_44 Start: 29100, Stop: 28861, Start Num: 38

Candidate Starts for Croquant_44:

(Start: 38 @29100 has 68 MA's), (69, 28992), (80, 28953), (93, 28899),

Gene: Cuco_34 Start: 27356, Stop: 27144, Start Num: 44

Candidate Starts for Cuco_34:

(Start: 44 @27356 has 23 MA's), (Start: 48 @27338 has 1 MA's), (54, 27311), (80, 27230), (93, 27176),

Gene: Cullens_43 Start: 29101, Stop: 28862, Start Num: 38

Candidate Starts for Cullens_43:

(Start: 38 @29101 has 68 MA's), (69, 28993), (80, 28954), (93, 28900),

Gene: DaHudson_43 Start: 29094, Stop: 28855, Start Num: 38

Candidate Starts for DaHudson_43:

(Start: 38 @29094 has 68 MA's), (69, 28986), (80, 28947), (93, 28893),

Gene: Daishi_42 Start: 27941, Stop: 27702, Start Num: 38

Candidate Starts for Daishi_42:

(15, 28073), (Start: 38 @27941 has 68 MA's), (69, 27833), (80, 27794), (93, 27740),

Gene: Danforth_34 Start: 26845, Stop: 26567, Start Num: 27

Candidate Starts for Danforth_34:

(Start: 27 @26845 has 11 MA's), (54, 26740), (67, 26701), (80, 26653), (93, 26599),

Gene: Datway_37 Start: 28192, Stop: 27932, Start Num: 19

Candidate Starts for Datway_37:

(Start: 19 @28192 has 25 MA's), (Start: 42 @28165 has 1 MA's), (Start: 48 @28138 has 1 MA's), (65, 28078), (82, 28015), (93, 27958),

Gene: Deano_38 Start: 28382, Stop: 28116, Start Num: 36

Candidate Starts for Deano_38:

(12, 28544), (Start: 22 @28430 has 1 MA's), (Start: 36 @28382 has 114 MA's), (Start: 42 @28352 has 1 MA's), (Start: 48 @28325 has 1 MA's), (65, 28265), (93, 28148),

Gene: Dhanush_38 Start: 28377, Stop: 28111, Start Num: 36

Candidate Starts for Dhanush_38:

(12, 28539), (Start: 22 @28425 has 1 MA's), (Start: 36 @28377 has 114 MA's), (Start: 42 @28347 has 1 MA's), (Start: 48 @28320 has 1 MA's), (65, 28260), (93, 28143),

Gene: Dieselweasel_44 Start: 29104, Stop: 28865, Start Num: 38

Candidate Starts for Dieselweasel_44:

(Start: 38 @29104 has 68 MA's), (69, 28996), (80, 28957), (93, 28903),

Gene: DirtyDunning_37 Start: 28251, Stop: 27991, Start Num: 19

Candidate Starts for DirtyDunning_37:

(Start: 19 @28251 has 25 MA's), (Start: 42 @28221 has 1 MA's), (Start: 48 @28194 has 1 MA's), (65, 28134), (93, 28017),

Gene: Dixon_35 Start: 26954, Stop: 26676, Start Num: 27

Candidate Starts for Dixon_35:

(Start: 27 @26954 has 11 MA's), (54, 26849), (67, 26810), (80, 26762), (93, 26708),

Gene: DontArgue_38 Start: 27488, Stop: 27219, Start Num: 36

Candidate Starts for DontArgue_38:

(Start: 36 @27488 has 114 MA's), (Start: 42 @27458 has 1 MA's), (54, 27404), (56, 27401), (92, 27257), (93, 27254),

Gene: DreamTeam1_38 Start: 28024, Stop: 27758, Start Num: 33

Candidate Starts for DreamTeam1_38:

(Start: 33 @28024 has 7 MA's), (77, 27859), (80, 27847), (93, 27784),

Gene: Dreamboat_44 Start: 32205, Stop: 31960, Start Num: 29

Candidate Starts for Dreamboat_44:

(11, 32394), (Start: 29 @32205 has 8 MA's), (75, 32055), (80, 32040), (86, 32025), (87, 32013), (93, 31983),

Gene: DroogsArmy_37 Start: 30255, Stop: 29989, Start Num: 23

Candidate Starts for DroogsArmy_37:

(Start: 23 @30255 has 2 MA's), (52, 30168), (75, 30084), (78, 30078), (94, 30006),

Gene: DropBear_40 Start: 28671, Stop: 28432, Start Num: 37

Candidate Starts for DropBear_40:

(18, 28767), (Start: 37 @28671 has 20 MA's), (69, 28563), (80, 28524), (93, 28470),

Gene: Druantia_38 Start: 28377, Stop: 28111, Start Num: 36

Candidate Starts for Druantia_38:

(12, 28539), (Start: 22 @28425 has 1 MA's), (Start: 36 @28377 has 114 MA's), (Start: 42 @28347 has 1 MA's), (Start: 48 @28320 has 1 MA's), (65, 28260), (93, 28143),

Gene: DustyMartin_43 Start: 28322, Stop: 28053, Start Num: 36

Candidate Starts for DustyMartin_43:

(20, 28382), (Start: 36 @28322 has 114 MA's), (Start: 42 @28292 has 1 MA's), (47, 28268), (54, 28238), (93, 28088),

Gene: Eagle_38 Start: 28399, Stop: 28133, Start Num: 36

Candidate Starts for Eagle_38:

(12, 28561), (Start: 22 @28447 has 1 MA's), (Start: 36 @28399 has 114 MA's), (Start: 42 @28369 has 1 MA's), (Start: 48 @28342 has 1 MA's), (65, 28282), (68, 28267), (93, 28165),

Gene: Eapen_38 Start: 28372, Stop: 28106, Start Num: 36

Candidate Starts for Eapen_38:

(12, 28534), (Start: 22 @28420 has 1 MA's), (Start: 36 @28372 has 114 MA's), (Start: 42 @28342 has 1 MA's), (Start: 48 @28315 has 1 MA's), (65, 28255), (93, 28138),

Gene: ElTiger69_35 Start: 27021, Stop: 26812, Start Num: 44

Candidate Starts for ElTiger69_35:

(Start: 44 @27021 has 23 MA's), (80, 26895), (93, 26841),

Gene: EpicPhail_44 Start: 29105, Stop: 28866, Start Num: 38

Candidate Starts for EpicPhail_44:

(Start: 38 @29105 has 68 MA's), (69, 28997), (80, 28958), (93, 28904),

Gene: Epsocamisio_40 Start: 26413, Stop: 26186, Start Num: 31

Candidate Starts for Epsocamisio_40:

(Start: 31 @26413 has 10 MA's), (34, 26407), (79, 26263), (90, 26221),

Gene: Eris_37 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Eris_37:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Eros_38 Start: 28376, Stop: 28110, Start Num: 36

Candidate Starts for Eros_38:

(12, 28538), (Start: 22 @28424 has 1 MA's), (Start: 36 @28376 has 114 MA's), (Start: 42 @28346 has 1 MA's), (Start: 48 @28319 has 1 MA's), (65, 28259), (93, 28142),

Gene: Eurydice_39 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Eurydice_39:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (68, 28242), (93, 28140),

Gene: Expelliarmus_34 Start: 26831, Stop: 26553, Start Num: 27

Candidate Starts for Expelliarmus_34:

(Start: 27 @26831 has 11 MA's), (54, 26726), (67, 26687), (80, 26639), (93, 26585),

Gene: Farber_43 Start: 29095, Stop: 28856, Start Num: 38

Candidate Starts for Farber_43:

(Start: 38 @29095 has 68 MA's), (69, 28987), (80, 28948), (93, 28894),

Gene: Fernando_43 Start: 29101, Stop: 28862, Start Num: 38
Candidate Starts for Fernando_43:
(Start: 38 @29101 has 68 MA's), (69, 28993), (80, 28954), (93, 28900),

Gene: Florean_38 Start: 28373, Stop: 28107, Start Num: 36
Candidate Starts for Florean_38:
(12, 28535), (Start: 22 @28421 has 1 MA's), (Start: 36 @28373 has 114 MA's), (Start: 42 @28343 has 1 MA's), (Start: 48 @28316 has 1 MA's), (65, 28256), (93, 28139),

Gene: Flux_38 Start: 28376, Stop: 28110, Start Num: 36
Candidate Starts for Flux_38:
(12, 28538), (Start: 22 @28424 has 1 MA's), (Start: 36 @28376 has 114 MA's), (Start: 42 @28346 has 1 MA's), (Start: 48 @28319 has 1 MA's), (65, 28259), (93, 28142),

Gene: FlyCatcher_40 Start: 30159, Stop: 29860, Start Num: 23
Candidate Starts for FlyCatcher_40:
(Start: 23 @30159 has 2 MA's),

Gene: Fred313_40 Start: 28356, Stop: 28117, Start Num: 37
Candidate Starts for Fred313_40:
(18, 28452), (Start: 37 @28356 has 20 MA's), (40, 28341), (69, 28248), (80, 28209), (93, 28155),

Gene: Funston_38 Start: 28374, Stop: 28108, Start Num: 36
Candidate Starts for Funston_38:
(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Gadost_38 Start: 28378, Stop: 28112, Start Num: 36
Candidate Starts for Gadost_38:
(12, 28540), (Start: 22 @28426 has 1 MA's), (Start: 36 @28378 has 114 MA's), (Start: 42 @28348 has 1 MA's), (Start: 48 @28321 has 1 MA's), (65, 28261), (93, 28144),

Gene: GaugeLDP_39 Start: 29059, Stop: 28823, Start Num: 33
Candidate Starts for GaugeLDP_39:
(16, 29173), (Start: 28 @29074 has 4 MA's), (Start: 33 @29059 has 7 MA's), (43, 29041), (60, 28978), (93, 28867),

Gene: Gemma_42 Start: 28985, Stop: 28680, Start Num: 25
Candidate Starts for Gemma_42:
(5, 29231), (6, 29213), (8, 29192), (9, 29189), (15, 29081), (17, 29069), (Start: 25 @28985 has 18 MA's), (40, 28931), (49, 28892), (54, 28868), (80, 28781), (93, 28718),

Gene: George_33 Start: 27339, Stop: 27145, Start Num: 48
Candidate Starts for George_33:
(Start: 44 @27357 has 23 MA's), (Start: 48 @27339 has 1 MA's), (54, 27312), (80, 27231), (93, 27177),

Gene: Ghoulboy_36 Start: 27962, Stop: 27744, Start Num: 44
Candidate Starts for Ghoulboy_36:
(Start: 41 @27971 has 2 MA's), (Start: 44 @27962 has 23 MA's), (Start: 48 @27944 has 1 MA's), (54, 27917), (80, 27830), (93, 27776),

Gene: GingkoMaracino_43 Start: 28988, Stop: 28749, Start Num: 38

Candidate Starts for GingkoMaracino_43:

(Start: 38 @28988 has 68 MA's), (62, 28907), (69, 28880), (80, 28841), (93, 28787),

Gene: Giroux_41 Start: 28603, Stop: 28364, Start Num: 37

Candidate Starts for Giroux_41:

(Start: 37 @28603 has 20 MA's), (69, 28495), (80, 28456), (93, 28402),

Gene: Goose1D_34 Start: 24804, Stop: 24565, Start Num: 37

Candidate Starts for Goose1D_34:

(18, 24900), (Start: 37 @24804 has 20 MA's), (69, 24696), (80, 24657), (93, 24603),

Gene: Goose1X_40 Start: 27946, Stop: 27707, Start Num: 37

Candidate Starts for Goose1X_40:

(18, 28042), (Start: 37 @27946 has 20 MA's), (69, 27838), (80, 27799), (93, 27745),

Gene: Grif_43 Start: 29176, Stop: 28937, Start Num: 38

Candidate Starts for Grif_43:

(Start: 38 @29176 has 68 MA's), (69, 29068), (80, 29029), (93, 28975),

Gene: Groundhog_34 Start: 26925, Stop: 26647, Start Num: 27

Candidate Starts for Groundhog_34:

(Start: 27 @26925 has 11 MA's), (54, 26820), (67, 26781), (80, 26733), (93, 26679),

Gene: Groupthink_44 Start: 28989, Stop: 28684, Start Num: 25

Candidate Starts for Groupthink_44:

(5, 29235), (6, 29217), (8, 29196), (9, 29193), (15, 29085), (17, 29073), (Start: 25 @28989 has 18 MA's), (40, 28935), (49, 28896), (54, 28872), (80, 28785), (93, 28722),

Gene: Grub_43 Start: 29094, Stop: 28855, Start Num: 38

Candidate Starts for Grub_43:

(Start: 38 @29094 has 68 MA's), (69, 28986), (80, 28947), (93, 28893),

Gene: Grum1_43 Start: 29101, Stop: 28862, Start Num: 38

Candidate Starts for Grum1_43:

(Start: 38 @29101 has 68 MA's), (69, 28993), (80, 28954), (93, 28900),

Gene: GtownJaz_43 Start: 29103, Stop: 28864, Start Num: 38

Candidate Starts for GtownJaz_43:

(Start: 38 @29103 has 68 MA's), (69, 28995), (80, 28956), (93, 28902),

Gene: Gwennie_43 Start: 29105, Stop: 28866, Start Num: 38

Candidate Starts for Gwennie_43:

(Start: 38 @29105 has 68 MA's), (69, 28997), (80, 28958), (93, 28904),

Gene: HamSlice_37 Start: 28372, Stop: 28106, Start Num: 36

Candidate Starts for HamSlice_37:

(12, 28534), (Start: 22 @28420 has 1 MA's), (Start: 36 @28372 has 114 MA's), (Start: 42 @28342 has 1 MA's), (Start: 48 @28315 has 1 MA's), (65, 28255), (93, 28138),

Gene: Happiness_37 Start: 28379, Stop: 28113, Start Num: 36

Candidate Starts for Happiness_37:

(12, 28541), (Start: 22 @28427 has 1 MA's), (Start: 36 @28379 has 114 MA's), (Start: 42 @28349 has 1 MA's), (Start: 48 @28322 has 1 MA's), (65, 28262), (93, 28145),

Gene: HashRod_44 Start: 29100, Stop: 28861, Start Num: 38

Candidate Starts for HashRod_44:

(15, 29232), (Start: 38 @29100 has 68 MA's), (69, 28992), (80, 28953), (93, 28899),

Gene: HaveUMetTed_44 Start: 28983, Stop: 28678, Start Num: 25

Candidate Starts for HaveUMetTed_44:

(15, 29079), (17, 29067), (Start: 25 @28983 has 18 MA's), (40, 28929), (49, 28890), (54, 28866), (80, 28779), (93, 28716),

Gene: Heathen_40 Start: 28412, Stop: 28173, Start Num: 37

Candidate Starts for Heathen_40:

(18, 28508), (Start: 37 @28412 has 20 MA's), (69, 28304), (80, 28265), (93, 28211),

Gene: HelDan_40 Start: 28664, Stop: 28425, Start Num: 37

Candidate Starts for HelDan_40:

(18, 28760), (Start: 37 @28664 has 20 MA's), (69, 28556), (80, 28517), (93, 28463),

Gene: Heliosoles_42 Start: 28992, Stop: 28687, Start Num: 25

Candidate Starts for Heliosoles_42:

(5, 29238), (6, 29220), (8, 29199), (9, 29196), (15, 29088), (17, 29076), (Start: 25 @28992 has 18 MA's), (40, 28938), (49, 28899), (54, 28875), (80, 28788), (93, 28725),

Gene: Herbertwm_35 Start: 26820, Stop: 26551, Start Num: 26

Candidate Starts for Herbertwm_35:

(21, 26844), (Start: 26 @26820 has 1 MA's), (50, 26730), (77, 26646),

Gene: Hercules11_43 Start: 29110, Stop: 28871, Start Num: 38

Candidate Starts for Hercules11_43:

(Start: 38 @29110 has 68 MA's), (69, 29002), (80, 28963), (93, 28909),

Gene: Holli_37 Start: 28164, Stop: 27898, Start Num: 36

Candidate Starts for Holli_37:

(12, 28326), (Start: 22 @28212 has 1 MA's), (Start: 36 @28164 has 114 MA's), (Start: 42 @28134 has 1 MA's), (Start: 48 @28107 has 1 MA's), (65, 28047), (93, 27930),

Gene: Houdini22_38 Start: 28378, Stop: 28112, Start Num: 36

Candidate Starts for Houdini22_38:

(12, 28540), (Start: 22 @28426 has 1 MA's), (Start: 36 @28378 has 114 MA's), (Start: 42 @28348 has 1 MA's), (Start: 48 @28321 has 1 MA's), (65, 28261), (93, 28144),

Gene: HuhtaEnerson15_34 Start: 27348, Stop: 27136, Start Num: 44

Candidate Starts for HuhtaEnerson15_34:

(Start: 44 @27348 has 23 MA's), (Start: 48 @27330 has 1 MA's), (54, 27303), (80, 27222), (93, 27168),

Gene: Huxley_38 Start: 28435, Stop: 28169, Start Num: 36

Candidate Starts for Huxley_38:

(12, 28597), (Start: 22 @28483 has 1 MA's), (Start: 36 @28435 has 114 MA's), (Start: 42 @28405 has 1 MA's), (Start: 48 @28378 has 1 MA's), (65, 28318), (93, 28201),

Gene: ICleared_38 Start: 28406, Stop: 28140, Start Num: 36

Candidate Starts for ICleared_38:

(12, 28568), (Start: 22 @28454 has 1 MA's), (Start: 36 @28406 has 114 MA's), (Start: 42 @28376 has 1 MA's), (Start: 48 @28349 has 1 MA's), (65, 28289), (93, 28172),

Gene: Iceman_39 Start: 28663, Stop: 28397, Start Num: 36

Candidate Starts for Iceman_39:

(12, 28825), (Start: 22 @28711 has 1 MA's), (Start: 36 @28663 has 114 MA's), (Start: 42 @28633 has 1 MA's), (Start: 48 @28606 has 1 MA's), (65, 28546), (93, 28429),

Gene: Idleandcovert_40 Start: 28604, Stop: 28365, Start Num: 37

Candidate Starts for Idleandcovert_40:

(Start: 37 @28604 has 20 MA's), (69, 28496), (80, 28457), (93, 28403),

Gene: Iracema64_39 Start: 28638, Stop: 28372, Start Num: 36

Candidate Starts for Iracema64_39:

(12, 28800), (Start: 22 @28686 has 1 MA's), (Start: 36 @28638 has 114 MA's), (Start: 42 @28608 has 1 MA's), (Start: 48 @28581 has 1 MA's), (65, 28521), (68, 28506), (93, 28404),

Gene: Isca_39 Start: 28228, Stop: 27989, Start Num: 37

Candidate Starts for Isca_39:

(Start: 37 @28228 has 20 MA's), (69, 28120), (80, 28081), (93, 28027),

Gene: JF2_40 Start: 27979, Stop: 27740, Start Num: 37

Candidate Starts for JF2_40:

(Start: 37 @27979 has 20 MA's), (69, 27871), (80, 27832), (93, 27778),

Gene: JF4_40 Start: 27979, Stop: 27740, Start Num: 37

Candidate Starts for JF4_40:

(Start: 37 @27979 has 20 MA's), (69, 27871), (80, 27832), (93, 27778),

Gene: JHC117_43 Start: 29100, Stop: 28861, Start Num: 38

Candidate Starts for JHC117_43:

(Start: 38 @29100 has 68 MA's), (69, 28992), (80, 28953), (93, 28899),

Gene: Jabiru_35 Start: 27070, Stop: 26861, Start Num: 44

Candidate Starts for Jabiru_35:

(Start: 44 @27070 has 23 MA's), (80, 26944), (93, 26890),

Gene: Jasper_44 Start: 32091, Stop: 31846, Start Num: 29

Candidate Starts for Jasper_44:

(11, 32280), (Start: 29 @32091 has 8 MA's), (75, 31941), (80, 31926), (86, 31911), (87, 31899), (93, 31869),

Gene: Jaykayelowell_37 Start: 28370, Stop: 28104, Start Num: 36

Candidate Starts for Jaykayelowell_37:

(12, 28532), (Start: 22 @28418 has 1 MA's), (Start: 36 @28370 has 114 MA's), (Start: 42 @28340 has 1 MA's), (Start: 48 @28313 has 1 MA's), (65, 28253), (93, 28136),

Gene: JenCasNa_44 Start: 29101, Stop: 28862, Start Num: 38

Candidate Starts for JenCasNa_44:

(Start: 38 @29101 has 68 MA's), (69, 28993), (80, 28954), (93, 28900),

Gene: JeppNRM_44 Start: 28990, Stop: 28685, Start Num: 25

Candidate Starts for JeppNRM_44:

(5, 29236), (6, 29218), (8, 29197), (9, 29194), (15, 29086), (17, 29074), (Start: 25 @28990 has 18 MA's), (40, 28936), (49, 28897), (54, 28873), (80, 28786), (93, 28723),

Gene: JetBlade_38 Start: 28371, Stop: 28105, Start Num: 36

Candidate Starts for JetBlade_38:

(12, 28533), (Start: 22 @28419 has 1 MA's), (Start: 36 @28371 has 114 MA's), (Start: 42 @28341 has 1 MA's), (Start: 48 @28314 has 1 MA's), (65, 28254), (93, 28137),

Gene: Jobu08_42 Start: 28934, Stop: 28692, Start Num: 38

Candidate Starts for Jobu08_42:

(Start: 38 @28934 has 68 MA's), (69, 28826), (80, 28787), (93, 28730),

Gene: JoongJeon_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for JoongJeon_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Junimo_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Junimo_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: KADY_43 Start: 29100, Stop: 28861, Start Num: 38

Candidate Starts for KADY_43:

(15, 29232), (Start: 38 @29100 has 68 MA's), (69, 28992), (80, 28953), (93, 28899),

Gene: KFPoly_38 Start: 28371, Stop: 28105, Start Num: 36

Candidate Starts for KFPoly_38:

(12, 28533), (Start: 22 @28419 has 1 MA's), (Start: 36 @28371 has 114 MA's), (Start: 42 @28341 has 1 MA's), (Start: 48 @28314 has 1 MA's), (65, 28254), (93, 28137),

Gene: Kachowdy_40 Start: 28664, Stop: 28425, Start Num: 37

Candidate Starts for Kachowdy_40:

(18, 28760), (Start: 37 @28664 has 20 MA's), (69, 28556), (80, 28517), (93, 28463),

Gene: Kalb97_44 Start: 28988, Stop: 28683, Start Num: 25

Candidate Starts for Kalb97_44:

(5, 29234), (6, 29216), (8, 29195), (9, 29192), (15, 29084), (17, 29072), (Start: 25 @28988 has 18 MA's), (40, 28934), (49, 28895), (54, 28871), (80, 28784), (93, 28721),

Gene: Kalnoky_44 Start: 28986, Stop: 28681, Start Num: 25

Candidate Starts for Kalnoky_44:

(5, 29232), (6, 29214), (8, 29193), (9, 29190), (15, 29082), (17, 29070), (Start: 25 @28986 has 18 MA's), (40, 28932), (49, 28893), (54, 28869), (80, 28782), (93, 28719),

Gene: Kamy_38 Start: 28376, Stop: 28110, Start Num: 36

Candidate Starts for Kamy_38:

(12, 28538), (Start: 22 @28424 has 1 MA's), (Start: 36 @28376 has 114 MA's), (Start: 42 @28346 has 1 MA's), (Start: 48 @28319 has 1 MA's), (65, 28259), (68, 28244), (93, 28142),

Gene: Katalie136_37 Start: 28206, Stop: 27946, Start Num: 19

Candidate Starts for Katalie136_37:

(Start: 19 @28206 has 25 MA's), (Start: 42 @28179 has 1 MA's), (Start: 48 @28152 has 1 MA's), (65, 28092), (82, 28029), (93, 27972),

Gene: KekoraPapaka_39 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for KekoraPapaka_39:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Kingmustik0402_38 Start: 28366, Stop: 28100, Start Num: 36

Candidate Starts for Kingmustik0402_38:

(12, 28528), (Start: 22 @28414 has 1 MA's), (Start: 36 @28366 has 114 MA's), (Start: 42 @28336 has 1 MA's), (Start: 48 @28309 has 1 MA's), (65, 28249), (93, 28132),

Gene: Klodlith_39 Start: 28041, Stop: 27775, Start Num: 33

Candidate Starts for Klodlith_39:

(Start: 33 @28041 has 7 MA's), (77, 27876), (80, 27864), (93, 27801),

Gene: Koan_37 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Koan_37:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Koreni_37 Start: 28055, Stop: 27789, Start Num: 36

Candidate Starts for Koreni_37:

(12, 28217), (Start: 22 @28103 has 1 MA's), (Start: 36 @28055 has 114 MA's), (Start: 42 @28025 has 1 MA's), (Start: 48 @27998 has 1 MA's), (65, 27938), (93, 27821),

Gene: Kratark_38 Start: 28316, Stop: 28050, Start Num: 36

Candidate Starts for Kratark_38:

(Start: 22 @28364 has 1 MA's), (Start: 36 @28316 has 114 MA's), (Start: 42 @28286 has 1 MA's), (Start: 48 @28259 has 1 MA's), (54, 28232), (56, 28229), (65, 28199), (93, 28082),

Gene: Kremtemulon_38 Start: 28328, Stop: 28062, Start Num: 36

Candidate Starts for Kremtemulon_38:

(Start: 22 @28376 has 1 MA's), (Start: 36 @28328 has 114 MA's), (Start: 42 @28298 has 1 MA's), (Start: 48 @28271 has 1 MA's), (54, 28244), (56, 28241), (65, 28211), (93, 28094),

Gene: Kyee_38 Start: 28372, Stop: 28106, Start Num: 36

Candidate Starts for Kyee_38:

(12, 28534), (Start: 22 @28420 has 1 MA's), (Start: 36 @28372 has 114 MA's), (Start: 42 @28342 has 1 MA's), (Start: 48 @28315 has 1 MA's), (65, 28255), (93, 28138),

Gene: LBerry_44 Start: 29105, Stop: 28866, Start Num: 38

Candidate Starts for LBerry_44:

(Start: 38 @29105 has 68 MA's), (69, 28997), (80, 28958), (93, 28904),

Gene: LHTSCC_40 Start: 28676, Stop: 28410, Start Num: 19

Candidate Starts for LHTSCC_40:

(1, 29540), (2, 29273), (3, 28958), (7, 28850), (10, 28826), (Start: 19 @28676 has 25 MA's), (Start: 42 @28646 has 1 MA's), (Start: 48 @28619 has 1 MA's), (65, 28559), (68, 28544), (93, 28442),

Gene: LadyBird_41 Start: 28555, Stop: 28316, Start Num: 32

Candidate Starts for LadyBird_41:

(14, 28678), (16, 28666), (Start: 32 @28555 has 1 MA's), (63, 28468), (72, 28441), (85, 28396), (93, 28351),

Gene: LappelDuVide_38 Start: 28373, Stop: 28107, Start Num: 36

Candidate Starts for LappelDuVide_38:

(12, 28535), (Start: 22 @28421 has 1 MA's), (Start: 36 @28373 has 114 MA's), (Start: 42 @28343 has 1 MA's), (Start: 48 @28316 has 1 MA's), (65, 28256), (93, 28139),

Gene: LarryKay_43 Start: 29102, Stop: 28863, Start Num: 38

Candidate Starts for LarryKay_43:

(15, 29234), (Start: 38 @29102 has 68 MA's), (69, 28994), (80, 28955), (93, 28901),

Gene: LastResort_40 Start: 26415, Stop: 26188, Start Num: 31

Candidate Starts for LastResort_40:

(Start: 31 @26415 has 10 MA's), (34, 26409), (79, 26265), (90, 26223),

Gene: Lemur_38 Start: 28371, Stop: 28105, Start Num: 36

Candidate Starts for Lemur_38:

(12, 28533), (Start: 22 @28419 has 1 MA's), (Start: 36 @28371 has 114 MA's), (Start: 42 @28341 has 1 MA's), (Start: 48 @28314 has 1 MA's), (65, 28254), (93, 28137),

Gene: LeoAvram_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for LeoAvram_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (68, 28242), (93, 28140),

Gene: LilBib_43 Start: 33080, Stop: 32835, Start Num: 29

Candidate Starts for LilBib_43:

(Start: 29 @33080 has 8 MA's), (75, 32930), (80, 32915), (86, 32900), (87, 32888), (93, 32858),

Gene: Lilith_44 Start: 29095, Stop: 28856, Start Num: 38

Candidate Starts for Lilith_44:

(Start: 38 @29095 has 68 MA's), (69, 28987), (80, 28948), (93, 28894),

Gene: LittleB_38 Start: 28375, Stop: 28109, Start Num: 36

Candidate Starts for LittleB_38:

(12, 28537), (Start: 22 @28423 has 1 MA's), (Start: 36 @28375 has 114 MA's), (Start: 42 @28345 has 1 MA's), (Start: 48 @28318 has 1 MA's), (65, 28258), (93, 28141),

Gene: LittleCherry_34 Start: 27358, Stop: 27146, Start Num: 44

Candidate Starts for LittleCherry_34:

(Start: 44 @27358 has 23 MA's), (Start: 48 @27340 has 1 MA's), (54, 27313), (80, 27232), (93, 27178),

Gene: LittleGuy_38 Start: 28273, Stop: 28007, Start Num: 36

Candidate Starts for LittleGuy_38:

(12, 28435), (Start: 22 @28321 has 1 MA's), (Start: 36 @28273 has 114 MA's), (Start: 42 @28243 has 1 MA's), (Start: 48 @28216 has 1 MA's), (65, 28156), (93, 28039),

Gene: LochMonster_38 Start: 28413, Stop: 28147, Start Num: 36

Candidate Starts for LochMonster_38:

(12, 28575), (Start: 22 @28461 has 1 MA's), (Start: 36 @28413 has 114 MA's), (Start: 42 @28383 has 1 MA's), (Start: 48 @28356 has 1 MA's), (54, 28329), (56, 28326), (65, 28296), (93, 28179),

Gene: LoneWolf_41 Start: 28735, Stop: 28481, Start Num: 28

Candidate Starts for LoneWolf_41:

(Start: 28 @28735 has 4 MA's), (57, 28642),

Gene: Looper_41 Start: 26392, Stop: 26165, Start Num: 31

Candidate Starts for Looper_41:

(Start: 31 @26392 has 10 MA's), (34, 26386), (79, 26242), (90, 26200),

Gene: Lorenzo_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Lorenzo_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Louie6_42 Start: 29101, Stop: 28862, Start Num: 38

Candidate Starts for Louie6_42:

(15, 29233), (Start: 38 @29101 has 68 MA's), (69, 28993), (80, 28954), (93, 28900),

Gene: Lowa_43 Start: 29094, Stop: 28855, Start Num: 38

Candidate Starts for Lowa_43:

(Start: 38 @29094 has 68 MA's), (69, 28986), (80, 28947), (93, 28893),

Gene: LugYA_46 Start: 29102, Stop: 28863, Start Num: 38

Candidate Starts for LugYA_46:

(Start: 38 @29102 has 68 MA's), (69, 28994), (80, 28955), (93, 28901),

Gene: Lunsford_39 Start: 28371, Stop: 28105, Start Num: 36

Candidate Starts for Lunsford_39:

(12, 28533), (Start: 22 @28419 has 1 MA's), (Start: 36 @28371 has 114 MA's), (Start: 42 @28341 has 1 MA's), (Start: 48 @28314 has 1 MA's), (65, 28254), (93, 28137),

Gene: MA5_40 Start: 28108, Stop: 27869, Start Num: 37

Candidate Starts for MA5_40:

(Start: 37 @28108 has 20 MA's), (69, 28000), (80, 27961), (93, 27907),

Gene: MK4_40 Start: 28213, Stop: 27974, Start Num: 37

Candidate Starts for MK4_40:

(Start: 37 @28213 has 20 MA's), (69, 28105), (80, 28066), (93, 28012),

Gene: MadMarie_43 Start: 29104, Stop: 28865, Start Num: 38

Candidate Starts for MadMarie_43:

(Start: 38 @29104 has 68 MA's), (69, 28996), (80, 28957), (93, 28903),

Gene: Mainiac_43 Start: 29095, Stop: 28856, Start Num: 38

Candidate Starts for Mainiac_43:

(Start: 38 @29095 has 68 MA's), (69, 28987), (80, 28948), (93, 28894),

Gene: Malinsilva_45 Start: 29094, Stop: 28855, Start Num: 38

Candidate Starts for Malinsilva_45:

(Start: 38 @29094 has 68 MA's), (69, 28986), (80, 28947), (93, 28893),

Gene: Manu_43 Start: 28989, Stop: 28684, Start Num: 25

Candidate Starts for Manu_43:

(5, 29235), (6, 29217), (8, 29196), (9, 29193), (15, 29085), (17, 29073), (Start: 25 @28989 has 18 MA's), (40, 28935), (49, 28896), (54, 28872), (80, 28785), (93, 28722),

Gene: MarQuardt_43 Start: 29103, Stop: 28864, Start Num: 38
Candidate Starts for MarQuardt_43:
(Start: 38 @29103 has 68 MA's), (69, 28995), (80, 28956), (93, 28902),

Gene: Marchesa_40 Start: 28662, Stop: 28423, Start Num: 37
Candidate Starts for Marchesa_40:
(18, 28758), (Start: 37 @28662 has 20 MA's), (69, 28554), (80, 28515), (93, 28461),

Gene: Marco3_44 Start: 32839, Stop: 32594, Start Num: 29
Candidate Starts for Marco3_44:
(Start: 29 @32839 has 8 MA's), (Start: 42 @32809 has 1 MA's), (75, 32689), (80, 32674), (86, 32659), (87, 32647), (93, 32617),

Gene: Marie_43 Start: 29101, Stop: 28862, Start Num: 38
Candidate Starts for Marie_43:
(Start: 38 @29101 has 68 MA's), (69, 28993), (80, 28954), (93, 28900),

Gene: Marius_44 Start: 28986, Stop: 28681, Start Num: 25
Candidate Starts for Marius_44:
(5, 29232), (6, 29214), (8, 29193), (9, 29190), (15, 29082), (17, 29070), (Start: 25 @28986 has 18 MA's), (40, 28932), (49, 28893), (54, 28869), (80, 28782), (93, 28719),

Gene: MarysWell_33 Start: 27412, Stop: 27194, Start Num: 44
Candidate Starts for MarysWell_33:
(Start: 44 @27412 has 23 MA's), (54, 27367), (80, 27280), (93, 27226),

Gene: Maverick_38 Start: 28374, Stop: 28108, Start Num: 36
Candidate Starts for Maverick_38:
(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Maxo_39 Start: 28376, Stop: 28110, Start Num: 36
Candidate Starts for Maxo_39:
(12, 28538), (Start: 22 @28424 has 1 MA's), (Start: 36 @28376 has 114 MA's), (Start: 42 @28346 has 1 MA's), (Start: 48 @28319 has 1 MA's), (65, 28259), (68, 28244), (93, 28142),

Gene: Mayonnaise_38 Start: 28374, Stop: 28108, Start Num: 36
Candidate Starts for Mayonnaise_38:
(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Mazhar510_38 Start: 28375, Stop: 28109, Start Num: 36
Candidate Starts for Mazhar510_38:
(12, 28537), (Start: 22 @28423 has 1 MA's), (Start: 36 @28375 has 114 MA's), (Start: 42 @28345 has 1 MA's), (Start: 48 @28318 has 1 MA's), (65, 28258), (93, 28141),

Gene: Medusa_38 Start: 28373, Stop: 28107, Start Num: 36
Candidate Starts for Medusa_38:
(12, 28535), (Start: 22 @28421 has 1 MA's), (Start: 36 @28373 has 114 MA's), (Start: 42 @28343 has 1 MA's), (Start: 48 @28316 has 1 MA's), (65, 28256), (68, 28241), (93, 28139),

Gene: MeeZee_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for MeeZee_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: MegTheThird_38 Start: 28003, Stop: 27746, Start Num: 35

Candidate Starts for MegTheThird_38:

(Start: 35 @28003 has 1 MA's), (77, 27847), (80, 27835), (88, 27793),

Gene: Melvin_40 Start: 28372, Stop: 28106, Start Num: 36

Candidate Starts for Melvin_40:

(12, 28534), (Start: 22 @28420 has 1 MA's), (Start: 36 @28372 has 114 MA's), (Start: 42 @28342 has 1 MA's), (Start: 48 @28315 has 1 MA's), (65, 28255), (93, 28138),

Gene: Methuselah_41 Start: 29096, Stop: 28857, Start Num: 38

Candidate Starts for Methuselah_41:

(15, 29228), (Start: 38 @29096 has 68 MA's), (69, 28988), (80, 28949), (93, 28895),

Gene: Micasa_36 Start: 27685, Stop: 27467, Start Num: 44

Candidate Starts for Micasa_36:

(Start: 44 @27685 has 23 MA's), (Start: 48 @27667 has 1 MA's), (54, 27640), (80, 27553), (93, 27499),

Gene: Microwolf_43 Start: 29103, Stop: 28864, Start Num: 38

Candidate Starts for Microwolf_43:

(Start: 38 @29103 has 68 MA's), (69, 28995), (80, 28956), (93, 28902),

Gene: Midas2_34 Start: 27403, Stop: 27185, Start Num: 44

Candidate Starts for Midas2_34:

(Start: 44 @27403 has 23 MA's), (Start: 48 @27385 has 1 MA's), (54, 27358), (80, 27271), (93, 27217),

Gene: Milcery_34 Start: 27362, Stop: 27150, Start Num: 44

Candidate Starts for Milcery_34:

(Start: 44 @27362 has 23 MA's), (Start: 48 @27344 has 1 MA's), (54, 27317), (80, 27236), (93, 27182),

Gene: MilleFeuille_42 Start: 32461, Stop: 32216, Start Num: 29

Candidate Starts for MilleFeuille_42:

(13, 32602), (Start: 29 @32461 has 8 MA's), (Start: 42 @32431 has 1 MA's), (75, 32311), (80, 32296), (86, 32281), (87, 32269), (93, 32239),

Gene: Millski_37 Start: 28378, Stop: 28112, Start Num: 36

Candidate Starts for Millski_37:

(12, 28540), (Start: 22 @28426 has 1 MA's), (Start: 36 @28378 has 114 MA's), (Start: 42 @28348 has 1 MA's), (Start: 48 @28321 has 1 MA's), (65, 28261), (93, 28144),

Gene: Miramae_37 Start: 28397, Stop: 28137, Start Num: 19

Candidate Starts for Miramae_37:

(Start: 19 @28397 has 25 MA's), (Start: 42 @28367 has 1 MA's), (Start: 48 @28340 has 1 MA's), (65, 28280), (68, 28265), (93, 28163),

Gene: Misomonster_44 Start: 29099, Stop: 28860, Start Num: 38

Candidate Starts for Misomonster_44:

(15, 29231), (Start: 38 @29099 has 68 MA's), (69, 28991), (80, 28952), (93, 28898),

Gene: MoneyMay_43 Start: 29101, Stop: 28862, Start Num: 38
Candidate Starts for MoneyMay_43:
(Start: 38 @29101 has 68 MA's), (69, 28993), (80, 28954), (93, 28900),

Gene: Montavir_42 Start: 29102, Stop: 28863, Start Num: 38
Candidate Starts for Montavir_42:
(Start: 38 @29102 has 68 MA's), (69, 28994), (80, 28955), (93, 28901),

Gene: Morpher26_37 Start: 28227, Stop: 27967, Start Num: 19
Candidate Starts for Morpher26_37:
(Start: 19 @28227 has 25 MA's), (Start: 42 @28200 has 1 MA's), (Start: 48 @28173 has 1 MA's), (65, 28113), (82, 28050), (93, 27993),

Gene: Morrow_39 Start: 28380, Stop: 28114, Start Num: 36
Candidate Starts for Morrow_39:
(12, 28542), (Start: 22 @28428 has 1 MA's), (Start: 36 @28380 has 114 MA's), (Start: 42 @28350 has 1 MA's), (Start: 48 @28323 has 1 MA's), (65, 28263), (68, 28248), (93, 28146),

Gene: MuchMore_46 Start: 29094, Stop: 28855, Start Num: 38
Candidate Starts for MuchMore_46:
(Start: 38 @29094 has 68 MA's), (69, 28986), (80, 28947), (93, 28893),

Gene: Mundrea_36 Start: 28134, Stop: 27874, Start Num: 36
Candidate Starts for Mundrea_36:
(12, 28296), (Start: 22 @28182 has 1 MA's), (Start: 36 @28134 has 114 MA's), (Start: 42 @28104 has 1 MA's), (Start: 48 @28077 has 1 MA's), (65, 28017), (68, 28002), (93, 27900),

Gene: MyraDee_36 Start: 26293, Stop: 26057, Start Num: 36
Candidate Starts for MyraDee_36:
(Start: 36 @26293 has 114 MA's), (51, 26248), (64, 26200), (74, 26152), (80, 26134),

Gene: Naca_35 Start: 27563, Stop: 27354, Start Num: 44
Candidate Starts for Naca_35:
(Start: 44 @27563 has 23 MA's), (80, 27437), (93, 27383),

Gene: NearlyHeadless_35 Start: 26884, Stop: 26606, Start Num: 27
Candidate Starts for NearlyHeadless_35:
(Start: 27 @26884 has 11 MA's), (54, 26779), (67, 26740), (80, 26692), (93, 26638),

Gene: Nebs_39 Start: 28374, Stop: 28108, Start Num: 36
Candidate Starts for Nebs_39:
(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (68, 28242), (93, 28140),

Gene: Nebulosus_40 Start: 26411, Stop: 26184, Start Num: 31
Candidate Starts for Nebulosus_40:
(Start: 31 @26411 has 10 MA's), (34, 26405), (79, 26261), (90, 26219),

Gene: Nemo27_38 Start: 28373, Stop: 28107, Start Num: 36
Candidate Starts for Nemo27_38:
(12, 28535), (Start: 22 @28421 has 1 MA's), (Start: 36 @28373 has 114 MA's), (Start: 42 @28343 has 1 MA's), (Start: 48 @28316 has 1 MA's), (65, 28256), (93, 28139),

Gene: Noelle_38 Start: 28436, Stop: 28167, Start Num: 36

Candidate Starts for Noelle_38:

(12, 28595), (Start: 22 @28481 has 1 MA's), (Start: 36 @28436 has 114 MA's), (Start: 42 @28406 has 1 MA's), (Start: 48 @28379 has 1 MA's), (54, 28352), (82, 28256), (93, 28199),

Gene: NorthStar_37 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for NorthStar_37:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (68, 28242), (93, 28140),

Gene: Northrop_39 Start: 28370, Stop: 28104, Start Num: 36

Candidate Starts for Northrop_39:

(12, 28532), (Start: 22 @28418 has 1 MA's), (Start: 36 @28370 has 114 MA's), (Start: 42 @28340 has 1 MA's), (Start: 48 @28313 has 1 MA's), (65, 28253), (93, 28136),

Gene: NotAPhaseMom_38 Start: 28378, Stop: 28112, Start Num: 36

Candidate Starts for NotAPhaseMom_38:

(12, 28540), (Start: 22 @28426 has 1 MA's), (Start: 36 @28378 has 114 MA's), (Start: 42 @28348 has 1 MA's), (Start: 48 @28321 has 1 MA's), (65, 28261), (93, 28144),

Gene: NothingSpecial_39 Start: 29386, Stop: 29153, Start Num: 33

Candidate Starts for NothingSpecial_39:

(14, 29512), (24, 29419), (Start: 28 @29401 has 4 MA's), (Start: 33 @29386 has 7 MA's), (53, 29326), (61, 29302), (70, 29281), (93, 29188),

Gene: Nyxis_38 Start: 28267, Stop: 28001, Start Num: 36

Candidate Starts for Nyxis_38:

(12, 28429), (Start: 22 @28315 has 1 MA's), (Start: 36 @28267 has 114 MA's), (Start: 42 @28237 has 1 MA's), (Start: 48 @28210 has 1 MA's), (65, 28150), (93, 28033),

Gene: OKaNui_39 Start: 28427, Stop: 28161, Start Num: 36

Candidate Starts for OKaNui_39:

(12, 28589), (Start: 22 @28475 has 1 MA's), (Start: 36 @28427 has 114 MA's), (Start: 42 @28397 has 1 MA's), (Start: 48 @28370 has 1 MA's), (65, 28310), (93, 28193),

Gene: Obama12_39 Start: 28678, Stop: 28412, Start Num: 19

Candidate Starts for Obama12_39:

(1, 29542), (2, 29275), (3, 28960), (7, 28852), (10, 28828), (Start: 19 @28678 has 25 MA's), (Start: 42 @28648 has 1 MA's), (Start: 48 @28621 has 1 MA's), (65, 28561), (68, 28546), (93, 28444),

Gene: Ohfah_39 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Ohfah_39:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (68, 28242), (93, 28140),

Gene: OlanP_42 Start: 29171, Stop: 28866, Start Num: 25

Candidate Starts for OlanP_42:

(15, 29267), (17, 29255), (Start: 25 @29171 has 18 MA's), (40, 29117), (49, 29078), (54, 29054), (80, 28967), (93, 28904),

Gene: Ollie_43 Start: 28973, Stop: 28734, Start Num: 38

Candidate Starts for Ollie_43:

(Start: 38 @28973 has 68 MA's), (62, 28892), (69, 28865), (80, 28826), (93, 28772),

Gene: Oofda_40 Start: 26376, Stop: 26146, Start Num: 31

Candidate Starts for Oofda_40:

(Start: 31 @26376 has 10 MA's), (34, 26370), (79, 26226), (90, 26181),

Gene: P28Green_44 Start: 29104, Stop: 28865, Start Num: 38

Candidate Starts for P28Green_44:

(Start: 38 @29104 has 68 MA's), (69, 28996), (80, 28957), (93, 28903),

Gene: PGHhamlin_45 Start: 29094, Stop: 28855, Start Num: 38

Candidate Starts for PGHhamlin_45:

(Start: 38 @29094 has 68 MA's), (69, 28986), (80, 28947), (93, 28893),

Gene: Palestino_37 Start: 28344, Stop: 28108, Start Num: 42

Candidate Starts for Palestino_37:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Paraselene_41 Start: 32492, Stop: 32247, Start Num: 29

Candidate Starts for Paraselene_41:

(Start: 29 @32492 has 8 MA's), (Start: 42 @32462 has 1 MA's), (75, 32342), (80, 32327), (86, 32312), (87, 32300), (93, 32270),

Gene: Pawn_43 Start: 28993, Stop: 28688, Start Num: 25

Candidate Starts for Pawn_43:

(5, 29239), (6, 29221), (8, 29200), (9, 29197), (15, 29089), (17, 29077), (Start: 25 @28993 has 18 MA's), (40, 28939), (49, 28900), (54, 28876), (80, 28789), (93, 28726),

Gene: Peaches_38 Start: 28373, Stop: 28107, Start Num: 36

Candidate Starts for Peaches_38:

(12, 28535), (Start: 22 @28421 has 1 MA's), (Start: 36 @28373 has 114 MA's), (Start: 42 @28343 has 1 MA's), (Start: 48 @28316 has 1 MA's), (65, 28256), (93, 28139),

Gene: Pembroke_43 Start: 29103, Stop: 28864, Start Num: 38

Candidate Starts for Pembroke_43:

(Start: 38 @29103 has 68 MA's), (69, 28995), (80, 28956), (93, 28902),

Gene: Penny1_44 Start: 29105, Stop: 28866, Start Num: 38

Candidate Starts for Penny1_44:

(Start: 38 @29105 has 68 MA's), (69, 28997), (80, 28958), (93, 28904),

Gene: Perplexer_37 Start: 28203, Stop: 27943, Start Num: 19

Candidate Starts for Perplexer_37:

(Start: 19 @28203 has 25 MA's), (Start: 42 @28176 has 1 MA's), (Start: 48 @28149 has 1 MA's), (65, 28089), (82, 28026), (93, 27969),

Gene: PeterPeter_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for PeterPeter_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: PetiteSangsue_37 Start: 28206, Stop: 27946, Start Num: 19

Candidate Starts for PetiteSangsue_37:

(Start: 19 @28206 has 25 MA's), (Start: 42 @28179 has 1 MA's), (Start: 48 @28152 has 1 MA's), (65, 28092), (82, 28029), (93, 27972),

Gene: PetterN_36 Start: 26926, Stop: 26717, Start Num: 44

Candidate Starts for PetterN_36:

(Start: 44 @26926 has 23 MA's), (80, 26800), (93, 26746),

Gene: Phacado_38 Start: 28373, Stop: 28107, Start Num: 36

Candidate Starts for Phacado_38:

(12, 28535), (Start: 22 @28421 has 1 MA's), (Start: 36 @28373 has 114 MA's), (Start: 42 @28343 has 1 MA's), (Start: 48 @28316 has 1 MA's), (65, 28256), (93, 28139),

Gene: Phantastic_40 Start: 28244, Stop: 28005, Start Num: 37

Candidate Starts for Phantastic_40:

(Start: 37 @28244 has 20 MA's), (69, 28136), (80, 28097), (93, 28043),

Gene: Phelipe_39 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Phelipe_39:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Phighter1804_38 Start: 28416, Stop: 28150, Start Num: 36

Candidate Starts for Phighter1804_38:

(12, 28578), (Start: 22 @28464 has 1 MA's), (Start: 36 @28416 has 114 MA's), (Start: 42 @28386 has 1 MA's), (45, 28374), (Start: 48 @28359 has 1 MA's), (65, 28299), (93, 28182),

Gene: Phillis_35 Start: 26910, Stop: 26632, Start Num: 27

Candidate Starts for Phillis_35:

(Start: 27 @26910 has 11 MA's), (54, 26805), (80, 26718), (93, 26664),

Gene: PhishRPhriends_41 Start: 28167, Stop: 27862, Start Num: 25

Candidate Starts for PhishRPhriends_41:

(5, 28413), (6, 28395), (8, 28374), (9, 28371), (15, 28263), (17, 28251), (Start: 25 @28167 has 18 MA's), (40, 28113), (49, 28074), (54, 28050), (80, 27963), (93, 27900),

Gene: Phoebe_44 Start: 29094, Stop: 28855, Start Num: 38

Candidate Starts for Phoebe_44:

(Start: 38 @29094 has 68 MA's), (69, 28986), (80, 28947), (93, 28893),

Gene: Phontbonne_38 Start: 28268, Stop: 28002, Start Num: 36

Candidate Starts for Phontbonne_38:

(12, 28430), (Start: 22 @28316 has 1 MA's), (Start: 36 @28268 has 114 MA's), (Start: 42 @28238 has 1 MA's), (Start: 48 @28211 has 1 MA's), (65, 28151), (93, 28034),

Gene: Phoxy_43 Start: 29097, Stop: 28858, Start Num: 38

Candidate Starts for Phoxy_43:

(15, 29229), (Start: 38 @29097 has 68 MA's), (69, 28989), (80, 28950), (93, 28896),

Gene: Phranny_44 Start: 28975, Stop: 28670, Start Num: 25

Candidate Starts for Phranny_44:

(5, 29221), (6, 29203), (8, 29182), (9, 29179), (15, 29071), (17, 29059), (Start: 25 @28975 has 18 MA's), (40, 28921), (49, 28882), (54, 28858), (80, 28771), (93, 28708),

Gene: Pistachio_41 Start: 28151, Stop: 27912, Start Num: 37

Candidate Starts for Pistachio_41:

(Start: 37 @28151 has 20 MA's), (69, 28043), (80, 28004), (93, 27950),

Gene: Polymorphads_39 Start: 28367, Stop: 28101, Start Num: 36

Candidate Starts for Polymorphads_39:

(12, 28529), (Start: 22 @28415 has 1 MA's), (Start: 36 @28367 has 114 MA's), (Start: 42 @28337 has 1 MA's), (Start: 48 @28310 has 1 MA's), (65, 28250), (68, 28235), (93, 28133),

Gene: PotatoSplit_45 Start: 29105, Stop: 28866, Start Num: 38

Candidate Starts for PotatoSplit_45:

(Start: 38 @29105 has 68 MA's), (69, 28997), (80, 28958), (93, 28904),

Gene: Prinashe11_35 Start: 27325, Stop: 27113, Start Num: 44

Candidate Starts for Prinashe11_35:

(Start: 44 @27325 has 23 MA's), (Start: 48 @27307 has 1 MA's), (54, 27280), (80, 27199), (93, 27145),

Gene: Pumbaa_38 Start: 28319, Stop: 28053, Start Num: 36

Candidate Starts for Pumbaa_38:

(12, 28481), (Start: 22 @28367 has 1 MA's), (Start: 36 @28319 has 114 MA's), (Start: 42 @28289 has 1 MA's), (Start: 48 @28262 has 1 MA's), (65, 28202), (93, 28085),

Gene: Puppy_41 Start: 28224, Stop: 27985, Start Num: 37

Candidate Starts for Puppy_41:

(Start: 37 @28224 has 20 MA's), (80, 28077), (93, 28023),

Gene: PurpleHaze_43 Start: 28988, Stop: 28683, Start Num: 25

Candidate Starts for PurpleHaze_43:

(5, 29234), (6, 29216), (8, 29195), (9, 29192), (15, 29084), (17, 29072), (Start: 25 @28988 has 18 MA's), (40, 28934), (49, 28895), (54, 28871), (80, 28784), (93, 28721),

Gene: Ravana_41 Start: 26559, Stop: 26329, Start Num: 31

Candidate Starts for Ravana_41:

(Start: 31 @26559 has 10 MA's), (34, 26553), (58, 26478), (62, 26469), (83, 26400), (90, 26364),

Gene: ReMo_40 Start: 26412, Stop: 26185, Start Num: 31

Candidate Starts for ReMo_40:

(Start: 31 @26412 has 10 MA's), (34, 26406), (79, 26262), (90, 26220),

Gene: Reba_43 Start: 28648, Stop: 28343, Start Num: 25

Candidate Starts for Reba_43:

(5, 28894), (6, 28876), (8, 28855), (9, 28852), (15, 28744), (17, 28732), (Start: 25 @28648 has 18 MA's), (40, 28594), (49, 28555), (54, 28531), (80, 28444), (93, 28381),

Gene: Relief_37 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Relief_37:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: RhynO_40 Start: 28414, Stop: 28145, Start Num: 36

Candidate Starts for RhynO_40:

(20, 28474), (Start: 36 @28414 has 114 MA's), (Start: 42 @28384 has 1 MA's), (47, 28360), (54, 28330), (93, 28180),

Gene: Roary_35 Start: 26830, Stop: 26552, Start Num: 27

Candidate Starts for Roary_35:

(Start: 27 @26830 has 11 MA's), (54, 26725), (67, 26686), (80, 26638), (93, 26584),

Gene: RockieBear_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for RockieBear_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Rocksand_39 Start: 28370, Stop: 28104, Start Num: 36

Candidate Starts for Rocksand_39:

(12, 28532), (Start: 22 @28418 has 1 MA's), (Start: 36 @28370 has 114 MA's), (Start: 42 @28340 has 1 MA's), (Start: 48 @28313 has 1 MA's), (65, 28253), (93, 28136),

Gene: Rockstar_40 Start: 28220, Stop: 27981, Start Num: 37

Candidate Starts for Rockstar_40:

(Start: 37 @28220 has 20 MA's), (69, 28112), (80, 28073), (93, 28019),

Gene: Roimos_40 Start: 28580, Stop: 28341, Start Num: 37

Candidate Starts for Roimos_40:

(18, 28676), (Start: 37 @28580 has 20 MA's), (69, 28472), (80, 28433), (93, 28379),

Gene: Romney_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Romney_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Roosevelt_37 Start: 28376, Stop: 28110, Start Num: 36

Candidate Starts for Roosevelt_37:

(12, 28538), (Start: 22 @28424 has 1 MA's), (Start: 36 @28376 has 114 MA's), (Start: 42 @28346 has 1 MA's), (Start: 48 @28319 has 1 MA's), (65, 28259), (93, 28142),

Gene: Rosa24_38 Start: 28408, Stop: 28142, Start Num: 36

Candidate Starts for Rosa24_38:

(12, 28570), (Start: 22 @28456 has 1 MA's), (Start: 36 @28408 has 114 MA's), (Start: 42 @28378 has 1 MA's), (Start: 48 @28351 has 1 MA's), (65, 28291), (68, 28276), (93, 28174),

Gene: Rosalind_40 Start: 26534, Stop: 26307, Start Num: 31

Candidate Starts for Rosalind_40:

(Start: 31 @26534 has 10 MA's), (34, 26528), (79, 26384), (90, 26342),

Gene: Rowdy_43 Start: 28322, Stop: 28053, Start Num: 36

Candidate Starts for Rowdy_43:

(20, 28382), (Start: 36 @28322 has 114 MA's), (Start: 42 @28292 has 1 MA's), (47, 28268), (54, 28238), (93, 28088),

Gene: Ruin_38 Start: 28370, Stop: 28104, Start Num: 36

Candidate Starts for Ruin_38:

(12, 28532), (Start: 22 @28418 has 1 MA's), (Start: 36 @28370 has 114 MA's), (Start: 42 @28340 has 1 MA's), (Start: 48 @28313 has 1 MA's), (93, 28136),

Gene: Rummer_42 Start: 29100, Stop: 28861, Start Num: 38

Candidate Starts for Rummer_42:

(15, 29232), (Start: 38 @29100 has 68 MA's), (69, 28992), (80, 28953), (93, 28899),

Gene: Rutherferd_45 Start: 33535, Stop: 33290, Start Num: 29

Candidate Starts for Rutherferd_45:

(Start: 29 @33535 has 8 MA's), (Start: 42 @33505 has 1 MA's), (75, 33385), (80, 33370), (86, 33355), (87, 33343), (93, 33313),

Gene: Sabertooth_38 Start: 28373, Stop: 28107, Start Num: 36

Candidate Starts for Sabertooth_38:

(12, 28535), (Start: 22 @28421 has 1 MA's), (Start: 36 @28373 has 114 MA's), (Start: 42 @28343 has 1 MA's), (Start: 48 @28316 has 1 MA's), (65, 28256), (93, 28139),

Gene: Sabia_43 Start: 29095, Stop: 28856, Start Num: 38

Candidate Starts for Sabia_43:

(Start: 38 @29095 has 68 MA's), (69, 28987), (80, 28948), (93, 28894),

Gene: Sabinator_42 Start: 29100, Stop: 28861, Start Num: 38

Candidate Starts for Sabinator_42:

(Start: 38 @29100 has 68 MA's), (69, 28992), (80, 28953), (93, 28899),

Gene: Sagefire_45 Start: 33468, Stop: 33223, Start Num: 29

Candidate Starts for Sagefire_45:

(Start: 29 @33468 has 8 MA's), (Start: 42 @33438 has 1 MA's), (75, 33318), (80, 33303), (86, 33288), (87, 33276), (93, 33246),

Gene: SaturnRing_40 Start: 28604, Stop: 28365, Start Num: 37

Candidate Starts for SaturnRing_40:

(Start: 37 @28604 has 20 MA's), (69, 28496), (80, 28457), (93, 28403),

Gene: Scamp_38 Start: 28376, Stop: 28110, Start Num: 36

Candidate Starts for Scamp_38:

(12, 28538), (Start: 22 @28424 has 1 MA's), (Start: 36 @28376 has 114 MA's), (Start: 42 @28346 has 1 MA's), (Start: 48 @28319 has 1 MA's), (65, 28259), (93, 28142),

Gene: Scherzo_41 Start: 29158, Stop: 28904, Start Num: 28

Candidate Starts for Scherzo_41:

(Start: 28 @29158 has 4 MA's), (Start: 41 @29131 has 2 MA's), (57, 29065), (80, 28987),

Gene: Scorpia_36 Start: 27003, Stop: 26794, Start Num: 44

Candidate Starts for Scorpia_36:

(Start: 44 @27003 has 23 MA's), (80, 26877), (93, 26823),

Gene: Scout_40 Start: 27911, Stop: 27672, Start Num: 37

Candidate Starts for Scout_40:

(18, 28007), (30, 27926), (Start: 37 @27911 has 20 MA's), (69, 27803), (80, 27764), (93, 27710),

Gene: SenorClean_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for SenorClean_38:

(12, 28536), (14, 28506), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Shaka_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Shaka_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Shapes_43 Start: 28322, Stop: 28053, Start Num: 36

Candidate Starts for Shapes_43:

(20, 28382), (Start: 36 @28322 has 114 MA's), (Start: 42 @28292 has 1 MA's), (47, 28268), (54, 28238), (93, 28088),

Gene: Sheen_38 Start: 30232, Stop: 29933, Start Num: 23

Candidate Starts for Sheen_38:

(4, 30508), (Start: 23 @30232 has 2 MA's),

Gene: SheldonCooper_40 Start: 28677, Stop: 28411, Start Num: 19

Candidate Starts for SheldonCooper_40:

(1, 29541), (2, 29274), (3, 28959), (7, 28851), (10, 28827), (Start: 19 @28677 has 25 MA's), (Start: 42 @28647 has 1 MA's), (Start: 48 @28620 has 1 MA's), (65, 28560), (68, 28545), (93, 28443),

Gene: Shep_40 Start: 27625, Stop: 27386, Start Num: 37

Candidate Starts for Shep_40:

(18, 27721), (Start: 37 @27625 has 20 MA's), (69, 27517), (80, 27478), (93, 27424),

Gene: Shygu2_37 Start: 28206, Stop: 27946, Start Num: 19

Candidate Starts for Shygu2_37:

(Start: 19 @28206 has 25 MA's), (Start: 42 @28176 has 1 MA's), (Start: 48 @28149 has 1 MA's), (65, 28089), (93, 27972),

Gene: Skadoosh_40 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Skadoosh_40:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Skipitt_37 Start: 28371, Stop: 28105, Start Num: 36

Candidate Starts for Skipitt_37:

(12, 28533), (Start: 22 @28419 has 1 MA's), (Start: 36 @28371 has 114 MA's), (Start: 42 @28341 has 1 MA's), (Start: 48 @28314 has 1 MA's), (65, 28254), (93, 28137),

Gene: Smeadley_35 Start: 26953, Stop: 26675, Start Num: 27

Candidate Starts for Smeadley_35:

(Start: 27 @26953 has 11 MA's), (54, 26848), (67, 26809), (80, 26761), (93, 26707),

Gene: Snickers_43 Start: 29075, Stop: 28836, Start Num: 38

Candidate Starts for Snickers_43:

(Start: 38 @29075 has 68 MA's), (69, 28967), (80, 28928), (93, 28874),

Gene: SoYo_43 Start: 29013, Stop: 28774, Start Num: 38

Candidate Starts for SoYo_43:

(Start: 38 @29013 has 68 MA's), (69, 28905), (80, 28866), (93, 28812),

Gene: SoilDragon_43 Start: 28550, Stop: 28308, Start Num: 38

Candidate Starts for SoilDragon_43:

(Start: 38 @28550 has 68 MA's), (69, 28442), (80, 28403), (93, 28346),

Gene: Soshari_45 Start: 29096, Stop: 28857, Start Num: 38

Candidate Starts for Soshari_45:

(15, 29228), (Start: 38 @29096 has 68 MA's), (69, 28988), (80, 28949), (93, 28895),

Gene: Sparxx_39 Start: 28369, Stop: 28103, Start Num: 36

Candidate Starts for Sparxx_39:

(12, 28531), (Start: 22 @28417 has 1 MA's), (Start: 36 @28369 has 114 MA's), (Start: 42 @28339 has 1 MA's), (Start: 48 @28312 has 1 MA's), (65, 28252), (93, 28135),

Gene: Spike509_43 Start: 29097, Stop: 28858, Start Num: 38

Candidate Starts for Spike509_43:

(15, 29229), (Start: 38 @29097 has 68 MA's), (69, 28989), (80, 28950), (93, 28896),

Gene: Spino_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Spino_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Stagni_43 Start: 29104, Stop: 28865, Start Num: 38

Candidate Starts for Stagni_43:

(Start: 38 @29104 has 68 MA's), (69, 28996), (80, 28957), (93, 28903),

Gene: SteMason_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for SteMason_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: StepMih_43 Start: 29095, Stop: 28856, Start Num: 38

Candidate Starts for StepMih_43:

(Start: 38 @29095 has 68 MA's), (69, 28987), (80, 28948), (93, 28894),

Gene: Stephig9_35 Start: 26858, Stop: 26580, Start Num: 27

Candidate Starts for Stephig9_35:

(Start: 27 @26858 has 11 MA's), (54, 26753), (67, 26714), (80, 26666), (93, 26612),

Gene: Stink_38 Start: 28677, Stop: 28417, Start Num: 19

Candidate Starts for Stink_38:

(Start: 19 @28677 has 25 MA's), (Start: 42 @28647 has 1 MA's), (Start: 48 @28620 has 1 MA's), (65, 28560), (68, 28545), (93, 28443),

Gene: Sultana_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Sultana_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Swirley_36 Start: 27689, Stop: 27477, Start Num: 44

Candidate Starts for Swirley_36:

(Start: 44 @27689 has 23 MA's), (Start: 48 @27671 has 1 MA's), (80, 27563), (93, 27509),

Gene: SydNat_36 Start: 27980, Stop: 27753, Start Num: 41

Candidate Starts for SydNat_36:

(Start: 41 @27980 has 2 MA's), (Start: 44 @27971 has 23 MA's), (Start: 48 @27953 has 1 MA's), (54, 27926), (80, 27839), (93, 27785),

Gene: TNguyen7_40 Start: 28571, Stop: 28332, Start Num: 37

Candidate Starts for TNguyen7_40:

(Start: 37 @28571 has 20 MA's), (80, 28424), (93, 28370),

Gene: Taquarus_38 Start: 28377, Stop: 28111, Start Num: 36

Candidate Starts for Taquarus_38:

(12, 28539), (Start: 22 @28425 has 1 MA's), (Start: 36 @28377 has 114 MA's), (Start: 42 @28347 has 1 MA's), (Start: 48 @28320 has 1 MA's), (65, 28260), (93, 28143),

Gene: Tarynearal_33 Start: 27355, Stop: 27143, Start Num: 44

Candidate Starts for Tarynearal_33:

(Start: 44 @27355 has 23 MA's), (Start: 48 @27337 has 1 MA's), (54, 27310), (80, 27229), (93, 27175),

Gene: Taurus_44 Start: 29101, Stop: 28862, Start Num: 38

Candidate Starts for Taurus_44:

(Start: 38 @29101 has 68 MA's), (69, 28993), (80, 28954), (93, 28900),

Gene: Thanksgivukkah_38 Start: 28375, Stop: 28109, Start Num: 36

Candidate Starts for Thanksgivukkah_38:

(12, 28537), (Start: 22 @28423 has 1 MA's), (Start: 36 @28375 has 114 MA's), (Start: 42 @28345 has 1 MA's), (Start: 48 @28318 has 1 MA's), (65, 28258), (93, 28141),

Gene: Theia_32 Start: 27379, Stop: 27167, Start Num: 44

Candidate Starts for Theia_32:

(Start: 44 @27379 has 23 MA's), (Start: 48 @27361 has 1 MA's), (54, 27334), (80, 27253), (93, 27199),

Gene: Tiffany_43 Start: 28987, Stop: 28748, Start Num: 38

Candidate Starts for Tiffany_43:

(Start: 38 @28987 has 68 MA's), (69, 28879), (80, 28840), (93, 28786),

Gene: TinaFeyge_39 Start: 28369, Stop: 28103, Start Num: 36

Candidate Starts for TinaFeyge_39:

(12, 28531), (Start: 22 @28417 has 1 MA's), (Start: 36 @28369 has 114 MA's), (Start: 42 @28339 has 1 MA's), (Start: 48 @28312 has 1 MA's), (65, 28252), (93, 28135),

Gene: TinyPebbles_42 Start: 29102, Stop: 28863, Start Num: 38

Candidate Starts for TinyPebbles_42:

(15, 29234), (Start: 38 @29102 has 68 MA's), (69, 28994), (80, 28955), (93, 28901),

Gene: Tinybot_37 Start: 28404, Stop: 28138, Start Num: 36

Candidate Starts for Tinybot_37:

(12, 28566), (Start: 22 @28452 has 1 MA's), (Start: 36 @28404 has 114 MA's), (Start: 42 @28374 has 1 MA's), (Start: 48 @28347 has 1 MA's), (65, 28287), (93, 28170),

Gene: TiroTheta9_38 Start: 28371, Stop: 28105, Start Num: 36

Candidate Starts for TiroTheta9_38:

(12, 28533), (Start: 22 @28419 has 1 MA's), (Start: 36 @28371 has 114 MA's), (Start: 42 @28341 has 1 MA's), (Start: 48 @28314 has 1 MA's), (65, 28254), (93, 28137),

Gene: Toaka_39 Start: 28247, Stop: 27996, Start Num: 28

Candidate Starts for Toaka_39:

(Start: 28 @28247 has 4 MA's), (Start: 41 @28220 has 2 MA's), (57, 28154), (80, 28076),

Gene: Toro_38 Start: 30159, Stop: 29860, Start Num: 23

Candidate Starts for Toro_38:

(Start: 23 @30159 has 2 MA's),

Gene: TroyPia_39 Start: 28372, Stop: 28106, Start Num: 36

Candidate Starts for TroyPia_39:

(12, 28534), (Start: 22 @28420 has 1 MA's), (Start: 36 @28372 has 114 MA's), (Start: 42 @28342 has 1 MA's), (Start: 48 @28315 has 1 MA's), (65, 28255), (93, 28138),

Gene: Twigg_34 Start: 27328, Stop: 27116, Start Num: 44

Candidate Starts for Twigg_34:

(Start: 44 @27328 has 23 MA's), (Start: 48 @27310 has 1 MA's), (54, 27283), (80, 27202), (93, 27148),

Gene: TygerBlood_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for TygerBlood_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Ugenie5_38 Start: 29157, Stop: 28903, Start Num: 28

Candidate Starts for Ugenie5_38:

(Start: 28 @29157 has 4 MA's), (Start: 41 @29130 has 2 MA's), (57, 29064), (80, 28986),

Gene: Ulysses_37 Start: 28054, Stop: 27788, Start Num: 36

Candidate Starts for Ulysses_37:

(12, 28216), (Start: 22 @28102 has 1 MA's), (Start: 36 @28054 has 114 MA's), (Start: 42 @28024 has 1 MA's), (Start: 48 @27997 has 1 MA's), (65, 27937), (93, 27820),

Gene: UnionJack_34 Start: 26537, Stop: 26325, Start Num: 44

Candidate Starts for UnionJack_34:

(Start: 44 @26537 has 23 MA's), (Start: 48 @26519 has 1 MA's), (80, 26411), (93, 26357),

Gene: Vix_43 Start: 29184, Stop: 28945, Start Num: 38

Candidate Starts for Vix_43:

(Start: 38 @29184 has 68 MA's), (69, 29076), (80, 29037), (93, 28983),

Gene: Waits_40 Start: 26373, Stop: 26143, Start Num: 31

Candidate Starts for Waits_40:

(Start: 31 @26373 has 10 MA's), (34, 26367), (79, 26223), (90, 26178),

Gene: Wander_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Wander_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Watson_43 Start: 29094, Stop: 28855, Start Num: 38

Candidate Starts for Watson_43:

(Start: 38 @29094 has 68 MA's), (69, 28986), (80, 28947), (93, 28893),

Gene: Wilbur_38 Start: 28374, Stop: 28108, Start Num: 36

Candidate Starts for Wilbur_38:

(12, 28536), (Start: 22 @28422 has 1 MA's), (Start: 36 @28374 has 114 MA's), (Start: 42 @28344 has 1 MA's), (Start: 48 @28317 has 1 MA's), (65, 28257), (93, 28140),

Gene: Wile_37 Start: 28237, Stop: 27977, Start Num: 19

Candidate Starts for Wile_37:

(Start: 19 @28237 has 25 MA's), (Start: 42 @28210 has 1 MA's), (Start: 48 @28183 has 1 MA's), (65, 28123), (82, 28060), (93, 28003),

Gene: Wizard007_38 Start: 28379, Stop: 28113, Start Num: 36

Candidate Starts for Wizard007_38:

(12, 28541), (Start: 22 @28427 has 1 MA's), (Start: 36 @28379 has 114 MA's), (Start: 42 @28349 has 1 MA's), (Start: 48 @28322 has 1 MA's), (65, 28262), (93, 28145),

Gene: Wooldri_45 Start: 29013, Stop: 28774, Start Num: 38

Candidate Starts for Wooldri_45:

(Start: 38 @29013 has 68 MA's), (69, 28905), (80, 28866), (93, 28812),

Gene: Xena_36 Start: 28203, Stop: 27943, Start Num: 19

Candidate Starts for Xena_36:

(Start: 19 @28203 has 25 MA's), (Start: 42 @28176 has 1 MA's), (Start: 48 @28149 has 1 MA's), (65, 28089), (82, 28026), (93, 27969),

Gene: XianYue_38 Start: 28104, Stop: 27877, Start Num: 33

Candidate Starts for XianYue_38:

(14, 28230), (16, 28218), (Start: 33 @28104 has 7 MA's), (59, 28026), (61, 28020), (93, 27906),

Gene: YoSam321_38 Start: 28371, Stop: 28105, Start Num: 36

Candidate Starts for YoSam321_38:

(12, 28533), (Start: 22 @28419 has 1 MA's), (Start: 36 @28371 has 114 MA's), (Start: 42 @28341 has 1 MA's), (Start: 48 @28314 has 1 MA's), (65, 28254), (93, 28137),

Gene: Zarafa_40 Start: 28673, Stop: 28434, Start Num: 37

Candidate Starts for Zarafa_40:

(18, 28769), (Start: 37 @28673 has 20 MA's), (69, 28565), (80, 28526), (93, 28472),

Gene: Zetzy_42 Start: 28665, Stop: 28426, Start Num: 38

Candidate Starts for Zetzy_42:

(Start: 38 @28665 has 68 MA's), (69, 28557), (80, 28518), (93, 28464),

Gene: Zolita_35 Start: 27984, Stop: 27757, Start Num: 41

Candidate Starts for Zolita_35:

(Start: 41 @27984 has 2 MA's), (Start: 44 @27975 has 23 MA's), (Start: 48 @27957 has 1 MA's), (54, 27930), (80, 27843), (93, 27789),