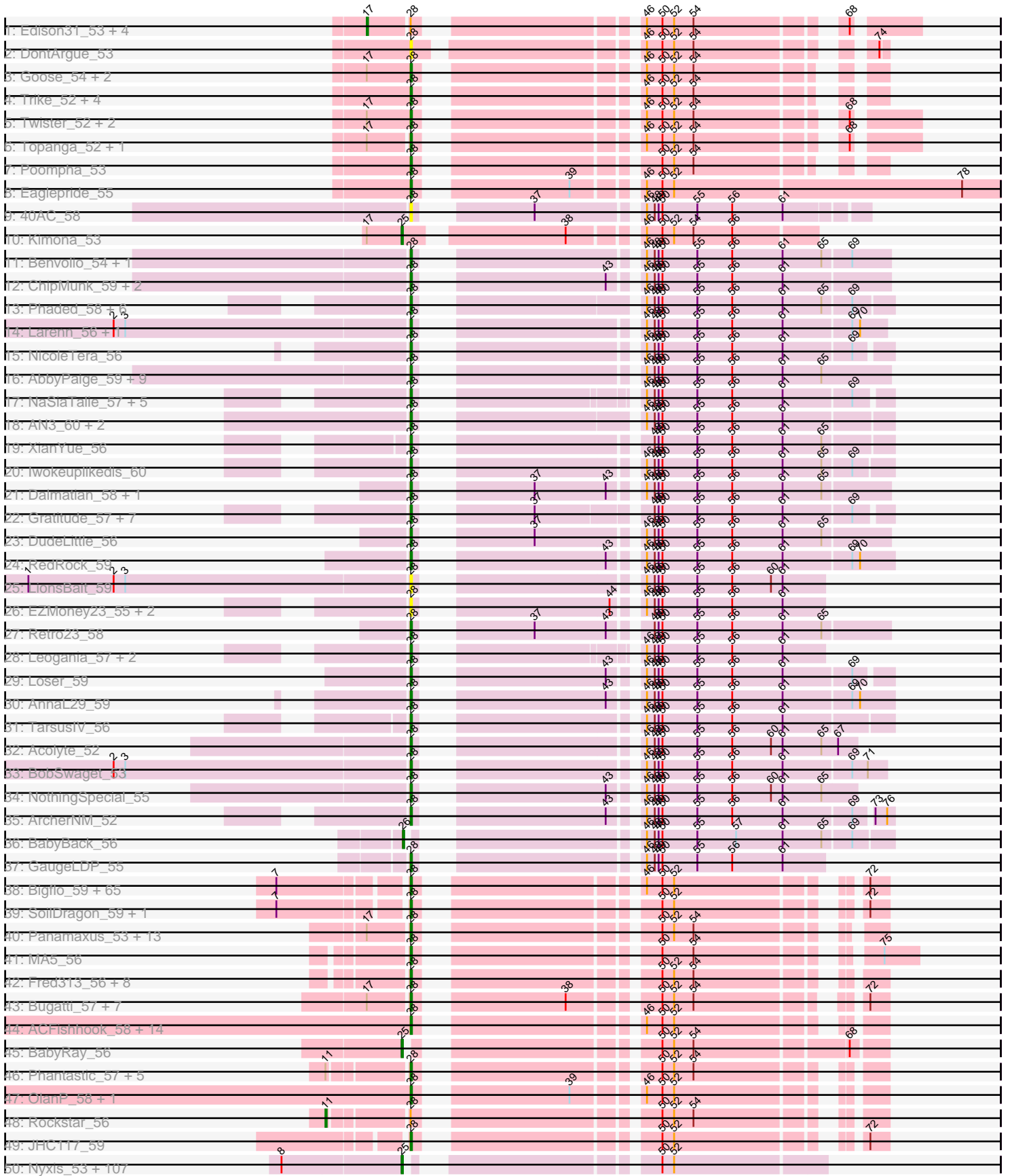
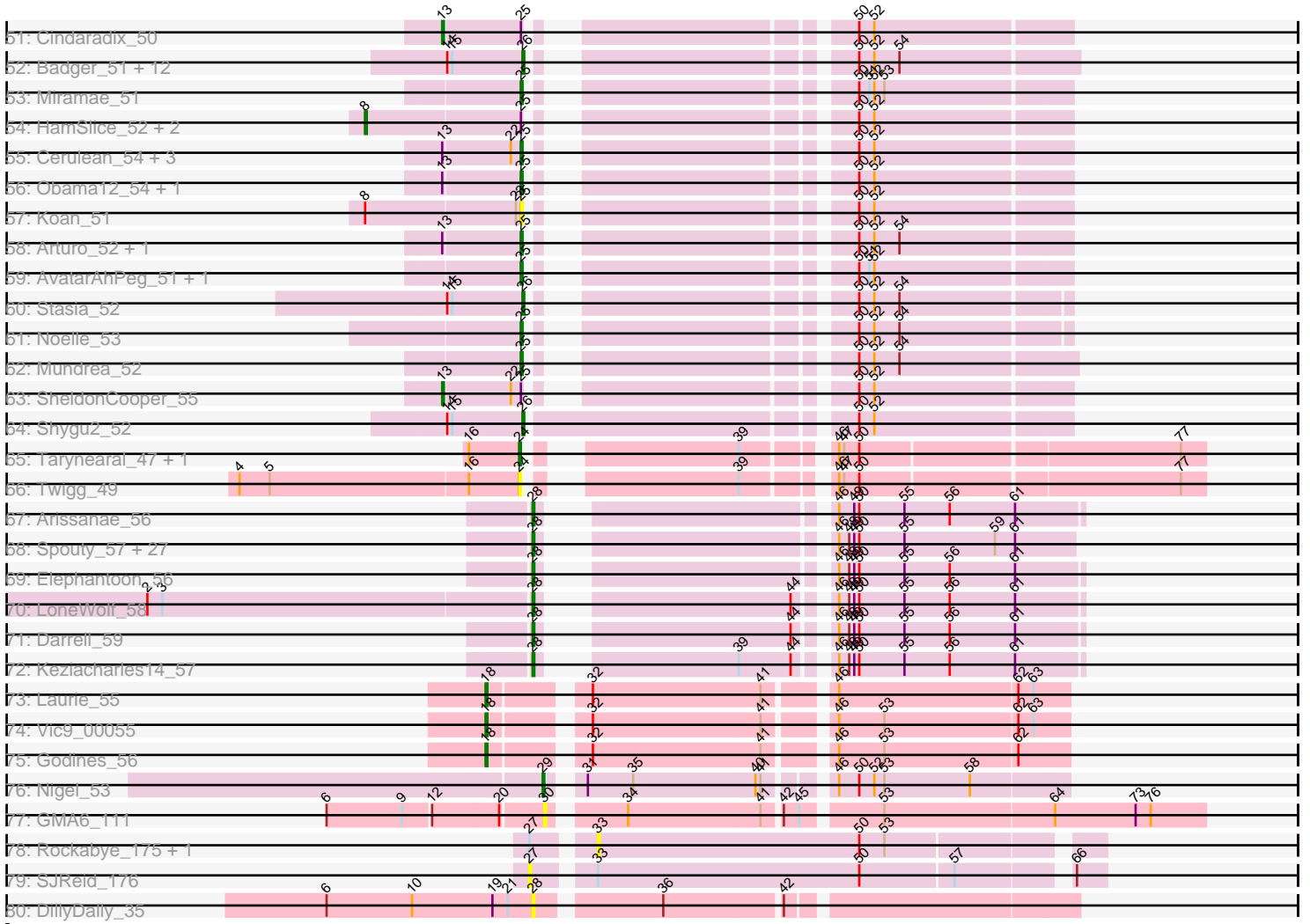


Pham 213888



Pham 213888



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 213888 Report

This analysis was run 02/22/25 on database version 588.

Pham number 213888 has 401 members, 45 are drafts.

Phages represented in each track:

- Track 1 : Edison31_53, Rowdy_58, DustyMartin_58, Shapes_58, Kristoff_54
- Track 2 : DontArgue_53
- Track 3 : Goose_54, OKCentral2016_53, Chupacabra_53
- Track 4 : Trike_52, Drake94_52, Severus_52, KittenMittens_51, PeaceMeal1_52
- Track 5 : Twister_52, WalterMcMickey_52, Rebeuca_54
- Track 6 : Topanga_52, RhynO_55
- Track 7 : Poompha_53
- Track 8 : Eaglepride_55
- Track 9 : 40AC_58
- Track 10 : Kimona_53
- Track 11 : Benvolio_54, Echild_57
- Track 12 : ChipMunk_59, EvilGenius_59, KingCyrus_59
- Track 13 : Phaded_58, IronMan_57, Jaan_57, Tristan_55, Landor_57, Pukovnik_56, Bactobuster_56
- Track 14 : Larenn_56, Malec_57
- Track 15 : NicoleTera_56
- Track 16 : AbbyPaige_59, Jerm_59, Buggy_59, Smeagan_60, Dignity_59, Whabigail7_58, Leviathan_59, Agape74_59, LilTurb_58, Turbido_58
- Track 17 : NaSiaTalie_57, Flare16_57, Sknot_59, MiculUcigas_57, Centaur_58, Terrific_60
- Track 18 : AN3_60, VA6_58, Deloris_58
- Track 19 : XianYue_56
- Track 20 : Iwokeuplikedis_60
- Track 21 : Dalmatian_58, Anselm_58
- Track 22 : Gratitude_57, Updawn_58, Equemioh13_58, HarryHoudini_58, WideWale_58, Baehexic_56, Piro94_57, Drake55_59
- Track 23 : DudeLittle_56
- Track 24 : RedRock_59
- Track 25 : LionsBait_59
- Track 26 : EZMoney23_55, 20ES_60, First_0059
- Track 27 : Retro23_58
- Track 28 : Leogania_57, BengiVuitton_59, BiancaTri92_57
- Track 29 : Loser_59
- Track 30 : AnnaL29_59
- Track 31 : TarsusIV_56
- Track 32 : Acolyte_52
- Track 33 : BobSwaget_53

- Track 34 : NothingSpecial_55
- Track 35 : ArcherNM_52
- Track 36 : BabyBack_56
- Track 37 : GaugeLDP_55
- Track 38 : Bigflo_59, Phoxy_59, Wooldri_61, Malinsilva_61, Spike509_59, Sabia_59, Lilith_60, Hercules11_59, Watson_59, Snickers_59, TinyPebbles_58, Grub_59, Beauxregard13_59, Anubis_62, Sabinator_58, LugYA_62, Bxz2_55, LarryKay_59, PGHhamlin_61, PotatoSplit_61, Ollie_59, Fernando_59, Soshari_61, P28Green_60, GtownJaz_59, AgronaGT15_58, SoYo_59, Vix_59, DaHudson_59, MadMarie_59, StepMih_59, BreSam8_59, MuchMore_62, KADY_59, MoneyMay_59, Methuselah_55, HashRod_60, BuzzBuzz_57, Marie_59, Daishi_58, Farber_59, Taurus_60, Phoebe_60, Dieselweasel_60, Zetzy_58, Microwolf_59, Penny1_60, Colbster_59, EpicPhail_60, MarQuardt_59, Pembroke_59, Aglet_60, GingkoMaracino_59, Grum1_59, AugsMagnumOpus_62, Misomonster_60, LBerry_60, Grif_59, Tiffany_59, Stagni_59, Rummer_58, JenCasNa_60, Louie6_58, Mainiac_59, Iowa_59, Cullens_59
- Track 39 : SoilDragon_59, Jobu08_58
- Track 40 : Panamaxus_53, Lambert1_55, Caviar_55, Noella_55, ResDef_55, Hookmount_55, Texage_54, Todacoro_55, Pocahontas_55, Margo_55, QuinnKiro_54, Norbert_54, Veracruz_54, Popcicle_55
- Track 41 : MA5_56
- Track 42 : Fred313_56, Marchesa_56, HelDan_56, Kachowdy_56, BabyJohn_54, Scout_56, Heathen_56, DropBear_56, Chiqui_54
- Track 43 : Bugatti_57, Giroux_57, Idleandcovert_57, Pistachio_58, Puppy_58, TNguyen7_57, SaturnRing_57, BlueBird_58
- Track 44 : ACFishhook_58, Heliosoles_58, Manu_59, Calvinny_59, HaveUMetTed_60, PhishRPhriends_57, Kalnoky_60, PurpleHaze_59, Kalb97_60, JeppNRM_60, Marius_60, Groupthink_60, Pawn_59, Phranny_60, Reba_59
- Track 45 : BabyRay_56
- Track 46 : Phantastic_57, JF4_54, B1_51, JF2_54, MK4_56, Isca_55
- Track 47 : OlanP_58, Gemma_58
- Track 48 : Rockstar_56
- Track 49 : JHC117_59
- Track 50 : Nyxis_53, Lemur_53, SenorClean_51, Ulysses_52, Chaph_53, JetBlade_53, Blackmoor_53, TroyPia_54, Caelakin_53, LittleB_53, Iceman_53, DirtyDunning_52, Phacado_53, Wizard007_53, BubbleTrouble_52, Skipitt_52, Kremtemulon_53, TiroTheta9_53, LeoAvram_53, Roosevelt_52, Florean_53, MeeZee_53, Spino_52, Dhanush_53, Pipcraft_51, Maverick_53, Eagle_53, NorthStar_52, Commander_53, Rosa24_52, Taquarus_53, BellusTerra_54, KFPoly_52, Connomayer_53, Eros_53, Citius_53, Mayonnaise_53, Camperdownii_51, Peaches_53, LittleGuy_53, Clarenza_52, Shaka_53, Deano_52, Eapen_53, Phontbonne_53, Ohfah_54, Annyong_53, Funston_52, Palestino_52, OKaNui_53, Wilbur_53, JoongJeon_52, Mazhar510_53, TygerBlood_53, Koreni_52, Millski_52, Gadost_53, Nebs_54, Avle17_53, Medusa_53, NotAPhaseMom_53, Sabertooth_53, Lunsford_54, Bartimeaus_53, Polymorphads_54, Morrow_54, Bruiser_52, Burger_51, Albee_53, Iracema64_54, Maxo_54, Flux_53, Houdini22_53, Cintron_52, Eris_52, Sparxx_54, Pumbaa_53, Lorenzo_53, YoSam321_53, LochMonster_54, Kingmustik0402_53, Relief_52, Jaykayelowell_51, Melvin_55, Wander_53, ICleared_53, Nemo27_53, PeterPeter_53, Scamp_53, Bombshell_53, Phelipe_54, Ruin_53, Huxley_53, Alberto7_54, Romney_53, Thanksgivukkah_52, Baby16_53, LappelDuVide_53, Tinybot_52, Druantia_53, Abdiel_53, Broseidon_53, Holli_52, Cocoaberry_53, Phighter1804_53, Kye_53, CentreCat_53, Eurydice_54
- Track 51 : Cindaradix_50

- Track 52 : Badger_51, Bumblebee11_51, Cici_52, Datway_52, PetiteSangsue_52, Katalie136_52, Achebe_51, Morpher26_52, Wile_52, Xena_51, AbbysRanger_52, Backyardigan_51, Perplexer_52
- Track 53 : Miramae_51
- Track 54 : HamSlice_52, TinaFeyge_53, Kampy_53
- Track 55 : Cerulean_54, BangNhom_54, Happiness_52, ChampagnePapi_55
- Track 56 : Obama12_54, LHTSCC_55
- Track 57 : Koan_51
- Track 58 : Arturo_52, Kratark_53
- Track 59 : AvatarAhPeg_51, Stink_52
- Track 60 : Stasia_52
- Track 61 : Noelle_53
- Track 62 : Mundrea_52
- Track 63 : SheldonCooper_55
- Track 64 : Shygu2_52
- Track 65 : Tarynearal_47, Swirley_51
- Track 66 : Twigg_49
- Track 67 : Arissanae_56
- Track 68 : Spouty_57, Beemo_57, Qobbit_57, Onglai_55, Phaeder_57, Catalina_58, RyeScarlet_58, ExplosioNervosa_57, Fayely_57, Sachima_54, Lilleskat_55, Priya_57, Hanray_55, Eidsmoe_57, Scherzo_57, Myxus_57, Horex_56, EdogawaKiddo_55, Aliter_57, Ugenie5_54, Conquerage_57, Phonnegut_57, Pioneer_57, EmyBug_56, PackMan_56, HortumSL17_57, Jiawan_55, Tubs_57
- Track 69 : Elephantoon_56
- Track 70 : LoneWolf_58
- Track 71 : Darrell_59
- Track 72 : Keziacharles14_57
- Track 73 : Laurie_55
- Track 74 : Vic9_00055
- Track 75 : Godines_56
- Track 76 : Nigel_53
- Track 77 : GMA6_111
- Track 78 : Rockabye_175, Chilliams_168
- Track 79 : SJReid_176
- Track 80 : DillyDally_35

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

The start number called the most often in the published annotations is 28, it was called in 207 of the 356 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES_60, 40AC_58, ACFishhook_58, AN3_60, AbbyPaige_59, Acolyte_52, Agape74_59, Aglet_60, AgronaGT15_58, Aliter_57, AnnaL29_59, Anselm_58, Anubis_62, ArcherNM_52, Arissanae_56, AugsMagnumOpus_62, B1_51, BabyJohn_54, Bactobuster_56, Baehexic_56, Beauxregard13_59, Beemo_57, BengiVuitton_59, Benvolio_54, BiancaTri92_57, Bigflo_59, BlueBird_58, BobSwaget_53, BreSam8_59, Bugatti_57, Buggy_59, BuzzBuzz_57, Bxz2_55, Calvinny_59, Catalina_58, Caviar_55, Centaur_58, ChipMunk_59, Chiqui_54, Chupacabra_53, Colbster_59, Conquerage_57, Cullens_59, DaHudson_59,

Daishi_58, Dalmatian_58, Darrell_59, Deloris_58, Dieselweasel_60, Dignity_59, DillyDally_35, DontArgue_53, Drake55_59, Drake94_52, DropBear_56, DudeLittle_56, EZMoney23_55, Eaglepride_55, Echild_57, EdogawaKiddo_55, Eidsmoe_57, Elephantoon_56, EmyBug_56, EpicPhail_60, Equemioh13_58, EvilGenius_59, ExplosioNervosa_57, Farber_59, Fayely_57, Fernando_59, First_0059, Flare16_57, Fred313_56, GaugeLDP_55, Gemma_58, GingkoMaracino_59, Giroux_57, Goose_54, Gratitude_57, Grif_59, Groupthink_60, Grub_59, Grum1_59, GtownJaz_59, Hanray_55, HarryHoudini_58, HashRod_60, HaveUMetTed_60, Heathen_56, HelDan_56, Heliosoles_58, Hercules11_59, Horex_56, Hookmount_55, HortumSL17_57, Idleandcovert_57, IronMan_57, Isca_55, Iwokeuplikedis_60, JF2_54, JF4_54, JHC117_59, Jaan_57, JenCasNa_60, JeppNRM_60, Jerm_59, Jiawan_55, Jobu08_58, KADY_59, Kachowdy_56, Kalb97_60, Kalnoky_60, Keziacharles14_57, KingCyrus_59, KittenMittens_51, LBerry_60, Lambert1_55, Landor_57, Larenn_56, LarryKay_59, Leogania_57, Leviathan_59, LilTurb_58, Lilith_60, Lilleskat_55, LionsBait_59, LoneWolf_58, Loser_59, Louie6_58, Lowa_59, LugYA_62, MA5_56, MK4_56, MadMarie_59, Mainiac_59, Malec_57, Malinsilva_61, Manu_59, MarQuardt_59, Marchesa_56, Margo_55, Marie_59, Marius_60, Methuselah_55, Microwolf_59, MiculUcigas_57, Misomonster_60, MoneyMay_59, MuchMore_62, Myxus_57, NaSiaTalie_57, NicoleTera_56, Noella_55, Norbert_54, NothingSpecial_55, OKCentral2016_53, OlanP_58, Ollie_59, Onglai_55, P28Green_60, PGHhamlin_61, PackMan_56, Panamaxus_53, Pawn_59, PeaceMeal1_52, Pembroke_59, Penny1_60, Phaded_58, Phaeder_57, Phantastic_57, PhishRPhriends_57, Phoebe_60, Phonnegut_57, Phoxy_59, Phranny_60, Pioneer_57, Piro94_57, Pistachio_58, Pocahontas_55, Poompha_53, Popcicle_55, PotatoSplit_61, Priya_57, Pukovnik_56, Puppy_58, PurpleHaze_59, Qobbit_57, QuinnKiro_54, Reba_59, Rebeuca_54, RedRock_59, ResDef_55, Retro23_58, RhynO_55, Rummer_58, RyeScarlet_58, Sabia_59, Sabinator_58, Sachima_54, SaturnRing_57, Scherzo_57, Scout_56, Severus_52, Sknot_59, Smeagan_60, Snickers_59, SoYo_59, SoilDragon_59, Soshari_61, Spike509_59, Spouty_57, Stagni_59, StepMih_59, TNguyen7_57, TarsusIV_56, Taurus_60, Terrific_60, Texage_54, Tiffany_59, TinyPebbles_58, Todacoro_55, Topanga_52, Trike_52, Tristan_55, Tubs_57, Turbido_58, Twister_52, Ugenie5_54, Updawg_58, VA6_58, Veracruz_54, Vix_59, WalterMcMickey_52, Watson_59, Whabigail7_58, WideWale_58, Wooldri_61, XianYue_56, Zetzy_58,

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

• DustyMartin_58, Edison31_53, Kristoff_54, Rockstar_56, Rowdy_58, Shapes_58,

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

• AbbysRanger_52, Abdiel_53, Achebe_51, Albee_53, Alberto7_54, Annyong_53, Arturo_52, AvatarAhPeg_51, Avle17_53, Baby16_53, BabyBack_56, BabyRay_56, Backyardigan_51, Badger_51, BangNhom_54, Bartimeaus_53, BellusTerra_54, Blackmoor_53, Bombshell_53, Broseidon_53, Bruiser_52, BubbleTrouble_52, Bumblebee11_51, Burger_51, Caelakin_53, Camperdownii_51, CentreCat_53, Cerulean_54, ChampagnePapi_55, Chaph_53, Chilliams_168, Cici_52, Cindaradix_50, Cintron_52, Citius_53, Clarenza_52, Cocoaberry_53, Commander_53, Connomayer_53, Datway_52, Deano_52, Dhanush_53, DirtyDunning_52, Druantia_53, Eagle_53, Eapen_53, Eris_52, Eros_53, Eurydice_54, Florean_53, Flux_53, Funston_52, GMA6_111, Gadost_53, Godines_56, HamSlice_52, Happiness_52, Holli_52, Houdini22_53, Huxley_53, ICleared_53, Iceman_53, Iracema64_54, Jaykayelowell_51, JetBlade_53, JoongJeon_52, KFPoly_52, Kampy_53, Katalie136_52, Kimona_53, Kingmustik0402_53, Koan_51, Koreni_52, Kratark_53, Kremtemulon_53, Kye_53, LHTSCC_55, LappelDuVide_53,

Laurie_55, Lemur_53, LeoAvram_53, LittleB_53, LittleGuy_53, LochMonster_54, Lorenzo_53, Lunsford_54, Maverick_53, Maxo_54, Mayonnaise_53, Mazhar510_53, Medusa_53, MeeZee_53, Melvin_55, Millski_52, Miramae_51, Morpher26_52, Morrow_54, Mundrea_52, Nebs_54, Nemo27_53, Nigel_53, Noelle_53, NorthStar_52, NotAPhaseMom_53, Nyxis_53, OKaNui_53, Obama12_54, Ohfah_54, Palestino_52, Peaches_53, Perplexer_52, PeterPeter_53, PetiteSangsue_52, Phacado_53, Phelipe_54, Phighter1804_53, Phontbonne_53, Pipcraft_51, Polymorphads_54, Pumbaa_53, Relief_52, Rockabye_175, Romney_53, Roosevelt_52, Rosa24_52, Ruin_53, SJReid_176, Sabertooth_53, Scamp_53, SenorClean_51, Shaka_53, SheldonCooper_55, Shygu2_52, Skipitt_52, Sparxx_54, Spino_52, Stasia_52, Stink_52, Swirley_51, Taquarus_53, Tarynearal_47, Thanksgivukkah_52, TinaFeyge_53, Tinybot_52, TiroTheta9_53, TroyPia_54, Twigg_49, TygerBlood_53, Ulysses_52, Vic9_00055, Wander_53, Wilbur_53, Wile_52, Wizard007_53, Xena_51, YoSam321_53,

Summary by start number:

Start 8:

- Found in 112 of 401 (27.9%) of genes in pham
- Manual Annotations of this start: 3 of 356
- Called 2.7% of time when present
- Phage (with cluster) where this start called: HamSlice_52 (A4), Kamy_53 (A4), TinaFeyge_53 (A4),

Start 11:

- Found in 7 of 401 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 356
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Rockstar_56 (A3),

Start 13:

- Found in 10 of 401 (2.5%) of genes in pham
- Manual Annotations of this start: 2 of 356
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Cindaradix_50 (A4), SheldonCooper_55 (A4),

Start 17:

- Found in 36 of 401 (9.0%) of genes in pham
- Manual Annotations of this start: 2 of 356
- Called 13.9% of time when present
- Phage (with cluster) where this start called: DustyMartin_58 (A10), Edison31_53 (A10), Kristoff_54 (A10), Rowdy_58 (A10), Shapes_58 (A10),

Start 18:

- Found in 3 of 401 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 356
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Godines_56 (B2), Laurie_55 (B2), Vic9_00055 (B2),

Start 24:

- Found in 3 of 401 (0.7%) of genes in pham

- Manual Annotations of this start: 2 of 356
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Swirley_51 (A5), Tarynearal_47 (A5), Twigg_49 (A5),

Start 25:

- Found in 129 of 401 (32.2%) of genes in pham
- Manual Annotations of this start: 119 of 356
- Called 96.1% of time when present
- Phage (with cluster) where this start called: Abdiel_53 (A4), Albee_53 (A4), Alberto7_54 (A4), Annyong_53 (A4), Arturo_52 (A4), AvatarAhPeg_51 (A4), Avle17_53 (A4), Baby16_53 (A4), BabyRay_56 (A3), BangNhom_54 (A4), Bartimeaus_53 (A4), BellusTerra_54 (A4), Blackmoor_53 (A4), Bombshell_53 (A4), Broseidon_53 (A4), Bruiser_52 (A4), BubbleTrouble_52 (A4), Burger_51 (A4), Caelakin_53 (A4), Camperdownii_51 (A4), CentreCat_53 (A4), Cerulean_54 (A4), ChampagnePapi_55 (A4), Chaph_53 (A4), Cintron_52 (A4), Citius_53 (A4), Clarenza_52 (A4), Cocoaberry_53 (A4), Commander_53 (A4), Connomayer_53 (A4), Deano_52 (A4), Dhanush_53 (A4), DirtyDunning_52 (A4), Druantia_53 (A4), Eagle_53 (A4), Eapen_53 (A4), Eris_52 (A4), Eros_53 (A4), Eurydice_54 (A4), Florean_53 (A4), Flux_53 (A4), Funston_52 (A4), Gadost_53 (A4), Happiness_52 (A4), Holli_52 (A4), Houdini22_53 (A4), Huxley_53 (A4), ICleared_53 (A4), Iceman_53 (A4), Iracema64_54 (A4), Jaykayelowell_51 (A4), JetBlade_53 (A4), JoongJeon_52 (A4), KFPoly_52 (A4), Kimona_53 (A19), Kingmustik0402_53 (A4), Koan_51 (A4), Koreni_52 (A4), Kratark_53 (A4), Kremtemulon_53 (A4), Kyee_53 (A4), LHTSCC_55 (A4), LappelDuVide_53 (A4), Lemur_53 (A4), LeoAvram_53 (A4), LittleB_53 (A4), LittleGuy_53 (A4), LochMonster_54 (A4), Lorenzo_53 (A4), Lunsford_54 (A4), Maverick_53 (A4), Maxo_54 (A4), Mayonnaise_53 (A4), Mazhar510_53 (A4), Medusa_53 (A4), MeeZee_53 (A4), Melvin_55 (A4), Millski_52 (A4), Miramae_51 (A4), Morrow_54 (A4), Mundrea_52 (A4), Nebs_54 (A4), Nemo27_53 (A4), Noelle_53 (A4), NorthStar_52 (A4), NotAPhaseMom_53 (A4), Nyxis_53 (A4), OKaNui_53 (A4), Obama12_54 (A4), Ohfah_54 (A4), Palestino_52 (A4), Peaches_53 (A4), PeterPeter_53 (A4), Phacado_53 (A4), Phelipe_54 (A4), Phighter1804_53 (A4), Phontbonne_53 (A4), Pipcraft_51 (A4), Polymorphads_54 (A4), Pumbaa_53 (A4), Relief_52 (A4), Romney_53 (A4), Roosevelt_52 (A4), Rosa24_52 (A4), Ruin_53 (A4), Sabertooth_53 (A4), Scamp_53 (A4), SenorClean_51 (A4), Shaka_53 (A4), Skipitt_52 (A4), Sparxx_54 (A4), Spino_52 (A4), Stink_52 (A4), Taquarus_53 (A4), Thanksgivukkah_52 (A4), Tinybot_52 (A4), TiroTheta9_53 (A4), TroyPia_54 (A4), TygerBlood_53 (A4), Ulysses_52 (A4), Wander_53 (A4), Wilbur_53 (A4), Wizard007_53 (A4), YoSam321_53 (A4),

Start 26:

- Found in 16 of 401 (4.0%) of genes in pham
- Manual Annotations of this start: 16 of 356
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbysRanger_52 (A4), Achebe_51 (A4), BabyBack_56 (A2), Backyardigan_51 (A4), Badger_51 (A4), Bumblebee11_51 (A4), Cici_52 (A4), Datway_52 (A4), Katalie136_52 (A4), Morpher26_52 (A4), Perplexer_52 (A4), PetiteSangsue_52 (A4), Shygu2_52 (A4), Stasia_52 (A4), Wile_52 (A4), Xena_51 (A4),

Start 27:

- Found in 3 of 401 (0.7%) of genes in pham
- No Manual Annotations of this start.

- Called 33.3% of time when present
- Phage (with cluster) where this start called: SJReid_176 (FC),

Start 28:

- Found in 245 of 401 (61.1%) of genes in pham
- Manual Annotations of this start: 207 of 356
- Called 97.6% of time when present
- Phage (with cluster) where this start called: 20ES_60 (A2), 40AC_58 (A17), ACFishhook_58 (A3), AN3_60 (A2), AbbyPaige_59 (A2), Acolyte_52 (A2), Agape74_59 (A2), Aglet_60 (A3), AgronaGT15_58 (A3), Aliter_57 (A9), AnnaL29_59 (A2), Anselm_58 (A2), Anubis_62 (A3), ArcherNM_52 (A2), Arissanae_56 (A9), AugsMagnumOpus_62 (A3), B1_51 (A3), BabyJohn_54 (A3), Bactobuster_56 (A2), Baehexic_56 (A2), Beauxregard13_59 (A3), Beemo_57 (A9), BengiVuitton_59 (A2), Benvolio_54 (A2), BiancaTri92_57 (A2), Bigflo_59 (A3), BlueBird_58 (A3), BobSwaget_53 (A2), BreSam8_59 (A3), Bugatti_57 (A3), Buggy_59 (A2), BuzzBuzz_57 (A3), Bxz2_55 (A3), Calvinny_59 (A3), Catalina_58 (A9), Caviar_55 (A3), Centaur_58 (A2), ChipMunk_59 (A2), Chiqui_54 (A3), Chupacabra_53 (A10), Colbster_59 (A3), Conquerage_57 (A9), Cullens_59 (A3), DaHudson_59 (A3), Daishi_58 (A3), Dalmatian_58 (A2), Darrell_59 (A9), Deloris_58 (A2), Dieselweasel_60 (A3), Dignity_59 (A2), DillyDally_35 (singleton), DontArgue_53 (A10), Drake55_59 (A2), Drake94_52 (A10), DropBear_56 (A3), DudeLittle_56 (A2), EZMoney23_55 (A2), Eaglepride_55 (A10), Echild_57 (A2), EdogawaKiddo_55 (A9), Eidsmoe_57 (A9), Elephantoon_56 (A9), EmyBug_56 (A9), EpicPhail_60 (A3), Equemioh13_58 (A2), EvilGenius_59 (A2), ExplosioNervosa_57 (A9), Farber_59 (A3), Fayely_57 (A9), Fernando_59 (A3), First_0059 (A2), Flare16_57 (A2), Fred313_56 (A3), GaugeLDP_55 (A2), Gemma_58 (A3), GingkoMaracino_59 (A3), Giroux_57 (A3), Goose_54 (A10), Gratitude_57 (A2), Grif_59 (A3), Groupthink_60 (A3), Grub_59 (A3), Grum1_59 (A3), GtownJaz_59 (A3), Hanray_55 (A9), HarryHoudini_58 (A2), HashRod_60 (A3), HaveUMetTed_60 (A3), Heathen_56 (A3), HelDan_56 (A3), Heliosoles_58 (A3), Hercules11_59 (A3), Horex_56 (A9), Hookmount_55 (A3), HortumSL17_57 (A9), Idleandcovert_57 (A3), IronMan_57 (A2), Isca_55 (A3), Iwokeuplikedis_60 (A2), JF2_54 (A3), JF4_54 (A3), JHC117_59 (A3), Jaan_57 (A2), JenCasNa_60 (A3), JeppNRM_60 (A3), Jerm_59 (A2), Jiawan_55 (A9), Jobu08_58 (A3), KADY_59 (A3), Kachowdy_56 (A3), Kalb97_60 (A3), Kalnok_60 (A3), Keziacharles14_57 (A9), KingCyrus_59 (A2), KittenMittens_51 (A10), LBerry_60 (A3), Lambert1_55 (A3), Landor_57 (A2), Larenn_56 (A2), LarryKay_59 (A3), Leogania_57 (A2), Leviathan_59 (A2), LilTurb_58 (A2), Lilith_60 (A3), Lilleskat_55 (A9), LionsBait_59 (A2), LoneWolf_58 (A9), Loser_59 (A2), Louie6_58 (A3), Iowa_59 (A3), LugYA_62 (A3), MA5_56 (A3), MK4_56 (A3), MadMarie_59 (A3), Mainiac_59 (A3), Malec_57 (A2), Malinsilva_61 (A3), Manu_59 (A3), MarQuardt_59 (A3), Marchesa_56 (A3), Margo_55 (A3), Marie_59 (A3), Marius_60 (A3), Methuselah_55 (A3), Microwolf_59 (A3), MiculUcigas_57 (A2), Misomonster_60 (A3), MoneyMay_59 (A3), MuchMore_62 (A3), Myxus_57 (A9), NaSiaTalie_57 (A2), NicoleTera_56 (A2), Noella_55 (A3), Norbert_54 (A3), NothingSpecial_55 (A2), OKCentral2016_53 (A10), OlanP_58 (A3), Ollie_59 (A3), Onglai_55 (A9), P28Green_60 (A3), PGHhamlin_61 (A3), PackMan_56 (A9), Panamaxus_53 (A3), Pawn_59 (A3), PeaceMeal1_52 (A10), Pembroke_59 (A3), Penny1_60 (A3), Phaded_58 (A2), Phaeder_57 (A9), Phantastic_57 (A3), PhishRPhriends_57 (A3), Phoebe_60 (A3), Phonnegut_57 (A9), Phoxy_59 (A3), Phranny_60 (A3), Pioneer_57 (A9), Piro94_57 (A2), Pistachio_58 (A3), Pocahontas_55 (A3), Poompha_53 (A10), Popcicle_55 (A3), PotatoSplit_61 (A3), Priya_57 (A9), Pukovnik_56 (A2), Puppy_58 (A3), PurpleHaze_59 (A3), Qobbit_57 (A9), QuinnKiro_54 (A3), Reba_59 (A3), Rebeuca_54 (A10), RedRock_59 (A2),

ResDef_55 (A3), Retro23_58 (A2), RhynO_55 (A10), Rummer_58 (A3), RyeScarlet_58 (A9), Sabia_59 (A3), Sabinator_58 (A3), Sachima_54 (A9), SaturnRing_57 (A3), Scherzo_57 (A9), Scout_56 (A3), Severus_52 (A10), Sknot_59 (A2), Smeagan_60 (A2), Snickers_59 (A3), SoYo_59 (A3), SoilDragon_59 (A3), Soshari_61 (A3), Spike509_59 (A3), Spouty_57 (A9), Stagni_59 (A3), StepMih_59 (A3), TNguyen7_57 (A3), TarsusIV_56 (A2), Taurus_60 (A3), Terrific_60 (A2), Texage_54 (A3), Tiffany_59 (A3), TinyPebbles_58 (A3), Todacoro_55 (A3), Topanga_52 (A10), Trike_52 (A10), Tristan_55 (A2), Tubs_57 (A9), Turbido_58 (A2), Twister_52 (A10), Ugenie5_54 (A9), Updawg_58 (A2), VA6_58 (A2), Veracruz_54 (A3), Vix_59 (A3), WalterMcMickey_52 (A10), Watson_59 (A3), Whabigail7_58 (A2), WideWale_58 (A2), Wooldri_61 (A3), XianYue_56 (A2), Zetzy_58 (A3),

Start 29:

- Found in 1 of 401 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 356
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nigel_53 (B4),

Start 30:

- Found in 1 of 401 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA6_111 (DQ),

Start 33:

- Found in 3 of 401 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Chilliams_168 (FC), Rockabye_175 (FC),

Summary by clusters:

There are 13 clusters represented in this pham: singleton, A10, FC, A19, A17, B4, A3, A2, A5, A4, B2, A9, DQ,

Info for manual annotations of cluster A10:

- Start number 17 was manually annotated 2 times for cluster A10.
- Start number 28 was manually annotated 15 times for cluster A10.

Info for manual annotations of cluster A19:

- Start number 25 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 26 was manually annotated 1 time for cluster A2.
- Start number 28 was manually annotated 56 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 11 was manually annotated 1 time for cluster A3.
- Start number 25 was manually annotated 1 time for cluster A3.
- Start number 28 was manually annotated 111 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 8 was manually annotated 3 times for cluster A4.
- Start number 13 was manually annotated 2 times for cluster A4.
- Start number 25 was manually annotated 117 times for cluster A4.
- Start number 26 was manually annotated 15 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 24 was manually annotated 2 times for cluster A5.

Info for manual annotations of cluster A9:

- Start number 28 was manually annotated 25 times for cluster A9.

Info for manual annotations of cluster B2:

- Start number 18 was manually annotated 3 times for cluster B2.

Info for manual annotations of cluster B4:

- Start number 29 was manually annotated 1 time for cluster B4.

Gene Information:

Gene: 20ES_60 Start: 38647, Stop: 38324, Start Num: 28

Candidate Starts for 20ES_60:

(Start: 28 @38647 has 207 MA's), (44, 38524), (46, 38509), (48, 38503), (49, 38500), (50, 38497), (55, 38470), (56, 38443), (61, 38404),

Gene: 40AC_58 Start: 39262, Stop: 38960, Start Num: 28

Candidate Starts for 40AC_58:

(Start: 28 @39262 has 207 MA's), (37, 39196), (46, 39124), (48, 39118), (49, 39115), (50, 39112), (55, 39085), (56, 39058), (61, 39019),

Gene: ACFishhook_58 Start: 37950, Stop: 37657, Start Num: 28

Candidate Starts for ACFishhook_58:

(Start: 28 @37950 has 207 MA's), (46, 37809), (50, 37797), (52, 37788),

Gene: AN3_60 Start: 37335, Stop: 37009, Start Num: 28

Candidate Starts for AN3_60:

(Start: 28 @37335 has 207 MA's), (46, 37194), (48, 37188), (49, 37185), (50, 37182), (55, 37155), (56, 37128), (61, 37089),

Gene: AbbyPaige_59 Start: 38506, Stop: 38180, Start Num: 28

Candidate Starts for AbbyPaige_59:

(Start: 28 @38506 has 207 MA's), (46, 38368), (48, 38362), (49, 38359), (50, 38356), (55, 38329), (56, 38302), (61, 38263), (65, 38233),

Gene: AbbysRanger_52 Start: 37346, Stop: 37068, Start Num: 26

Candidate Starts for AbbysRanger_52:

(14, 37391), (15, 37388), (Start: 26 @37346 has 16 MA's), (50, 37193), (52, 37184), (54, 37169),

Gene: Abdiel_53 Start: 37381, Stop: 37106, Start Num: 25

Candidate Starts for Abdiel_53:

(Start: 8 @37471 has 3 MA's), (Start: 25 @37381 has 119 MA's), (50, 37228), (52, 37219),

Gene: Achebe_51 Start: 37329, Stop: 37051, Start Num: 26

Candidate Starts for Achebe_51:

(14, 37374), (15, 37371), (Start: 26 @37329 has 16 MA's), (50, 37176), (52, 37167), (54, 37152),

Gene: Acolyte_52 Start: 37328, Stop: 37029, Start Num: 28

Candidate Starts for Acolyte_52:

(Start: 28 @37328 has 207 MA's), (46, 37190), (48, 37184), (49, 37181), (50, 37178), (55, 37151), (56, 37124), (60, 37094), (61, 37085), (65, 37055), (67, 37043),

Gene: Agape74_59 Start: 38500, Stop: 38174, Start Num: 28

Candidate Starts for Agape74_59:

(Start: 28 @38500 has 207 MA's), (46, 38362), (48, 38356), (49, 38353), (50, 38350), (55, 38323), (56, 38296), (61, 38257), (65, 38227),

Gene: Aglet_60 Start: 37993, Stop: 37700, Start Num: 28

Candidate Starts for Aglet_60:

(7, 38080), (Start: 28 @37993 has 207 MA's), (46, 37852), (50, 37840), (52, 37831), (72, 37714),

Gene: AgronaGT15_58 Start: 37841, Stop: 37548, Start Num: 28

Candidate Starts for AgronaGT15_58:

(7, 37928), (Start: 28 @37841 has 207 MA's), (46, 37700), (50, 37688), (52, 37679), (72, 37562),

Gene: Albee_53 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for Albee_53:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Alberto7_54 Start: 37717, Stop: 37442, Start Num: 25

Candidate Starts for Alberto7_54:

(Start: 8 @37807 has 3 MA's), (Start: 25 @37717 has 119 MA's), (50, 37564), (52, 37555),

Gene: Aliter_57 Start: 37884, Stop: 37606, Start Num: 28

Candidate Starts for Aliter_57:

(Start: 28 @37884 has 207 MA's), (46, 37746), (48, 37740), (49, 37737), (50, 37734), (55, 37707), (59, 37653), (61, 37641),

Gene: AnnaL29_59 Start: 39057, Stop: 38731, Start Num: 28

Candidate Starts for AnnaL29_59:

(Start: 28 @39057 has 207 MA's), (43, 38937), (46, 38919), (48, 38913), (49, 38910), (50, 38907), (55, 38880), (56, 38853), (61, 38814), (69, 38763), (70, 38757),

Gene: Annyong_53 Start: 37425, Stop: 37150, Start Num: 25

Candidate Starts for Annyong_53:

(Start: 8 @37515 has 3 MA's), (Start: 25 @37425 has 119 MA's), (50, 37272), (52, 37263),

Gene: Anselm_58 Start: 38407, Stop: 38084, Start Num: 28

Candidate Starts for Anselm_58:

(Start: 28 @38407 has 207 MA's), (37, 38341), (43, 38287), (46, 38269), (48, 38263), (49, 38260), (50, 38257), (55, 38230), (56, 38203), (61, 38164), (65, 38134),

Gene: Anubis_62 Start: 37879, Stop: 37586, Start Num: 28

Candidate Starts for Anubis_62:

(7, 37966), (Start: 28 @37879 has 207 MA's), (46, 37738), (50, 37726), (52, 37717), (72, 37600),

Gene: ArcherNM_52 Start: 38061, Stop: 37741, Start Num: 28

Candidate Starts for ArcherNM_52:

(Start: 28 @38061 has 207 MA's), (43, 37941), (46, 37923), (48, 37917), (49, 37914), (50, 37911), (55, 37884), (56, 37857), (61, 37818), (69, 37767), (73, 37755), (76, 37746),

Gene: Arissanae_56 Start: 38575, Stop: 38294, Start Num: 28

Candidate Starts for Arissanae_56:

(Start: 28 @38575 has 207 MA's), (46, 38437), (49, 38428), (50, 38425), (55, 38398), (56, 38371), (61, 38332),

Gene: Arturo_52 Start: 37652, Stop: 37377, Start Num: 25

Candidate Starts for Arturo_52:

(Start: 13 @37697 has 2 MA's), (Start: 25 @37652 has 119 MA's), (50, 37499), (52, 37490), (54, 37475),

Gene: AugsMagnumOpus_62 Start: 37984, Stop: 37691, Start Num: 28

Candidate Starts for AugsMagnumOpus_62:

(7, 38071), (Start: 28 @37984 has 207 MA's), (46, 37843), (50, 37831), (52, 37822), (72, 37705),

Gene: AvatarAhPeg_51 Start: 37165, Stop: 36890, Start Num: 25

Candidate Starts for AvatarAhPeg_51:

(Start: 25 @37165 has 119 MA's), (50, 37012), (51, 37006), (52, 37003),

Gene: Avle17_53 Start: 37377, Stop: 37102, Start Num: 25

Candidate Starts for Avle17_53:

(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: B1_51 Start: 35979, Stop: 35686, Start Num: 28

Candidate Starts for B1_51:

(Start: 11 @36033 has 1 MA's), (Start: 28 @35979 has 207 MA's), (50, 35826), (52, 35817), (54, 35802),

Gene: Baby16_53 Start: 37391, Stop: 37116, Start Num: 25

Candidate Starts for Baby16_53:

(Start: 8 @37481 has 3 MA's), (Start: 25 @37391 has 119 MA's), (50, 37238), (52, 37229),

Gene: BabyBack_56 Start: 38693, Stop: 38370, Start Num: 26

Candidate Starts for BabyBack_56:

(Start: 26 @38693 has 16 MA's), (46, 38555), (48, 38549), (49, 38546), (50, 38543), (55, 38516), (57, 38486), (61, 38450), (65, 38420), (69, 38399),

Gene: BabyJohn_54 Start: 37800, Stop: 37507, Start Num: 28

Candidate Starts for BabyJohn_54:

(Start: 28 @37800 has 207 MA's), (50, 37647), (52, 37638), (54, 37623),

Gene: BabyRay_56 Start: 37770, Stop: 37456, Start Num: 25

Candidate Starts for BabyRay_56:

(Start: 25 @37770 has 119 MA's), (50, 37617), (52, 37608), (54, 37593), (68, 37482),

Gene: Backyardigan_51 Start: 37362, Stop: 37084, Start Num: 26

Candidate Starts for Backyardigan_51:

(14, 37407), (15, 37404), (Start: 26 @37362 has 16 MA's), (50, 37209), (52, 37200), (54, 37185),

Gene: Bactobuster_56 Start: 39010, Stop: 38684, Start Num: 28

Candidate Starts for Bactobuster_56:

(Start: 28 @39010 has 207 MA's), (46, 38869), (48, 38863), (49, 38860), (50, 38857), (55, 38830), (56, 38803), (61, 38764), (65, 38734), (69, 38713),

Gene: Badger_51 Start: 37330, Stop: 37052, Start Num: 26

Candidate Starts for Badger_51:

(14, 37375), (15, 37372), (Start: 26 @37330 has 16 MA's), (50, 37177), (52, 37168), (54, 37153),

Gene: Baehexic_56 Start: 38173, Stop: 37853, Start Num: 28

Candidate Starts for Baehexic_56:

(Start: 28 @38173 has 207 MA's), (37, 38107), (48, 38029), (49, 38026), (50, 38023), (55, 37996), (56, 37969), (61, 37930), (69, 37879),

Gene: BangNhom_54 Start: 37816, Stop: 37541, Start Num: 25

Candidate Starts for BangNhom_54:

(Start: 13 @37861 has 2 MA's), (22, 37822), (Start: 25 @37816 has 119 MA's), (50, 37663), (52, 37654),

Gene: Bartimeaus_53 Start: 37382, Stop: 37107, Start Num: 25

Candidate Starts for Bartimeaus_53:

(Start: 8 @37472 has 3 MA's), (Start: 25 @37382 has 119 MA's), (50, 37229), (52, 37220),

Gene: Beauxregard13_59 Start: 37996, Stop: 37703, Start Num: 28

Candidate Starts for Beauxregard13_59:

(7, 38083), (Start: 28 @37996 has 207 MA's), (46, 37855), (50, 37843), (52, 37834), (72, 37717),

Gene: Beemo_57 Start: 38054, Stop: 37776, Start Num: 28

Candidate Starts for Beemo_57:

(Start: 28 @38054 has 207 MA's), (46, 37916), (48, 37910), (49, 37907), (50, 37904), (55, 37877), (59, 37823), (61, 37811),

Gene: BellusTerra_54 Start: 37381, Stop: 37106, Start Num: 25

Candidate Starts for BellusTerra_54:

(Start: 8 @37471 has 3 MA's), (Start: 25 @37381 has 119 MA's), (50, 37228), (52, 37219),

Gene: BengiVuitton_59 Start: 38618, Stop: 38292, Start Num: 28

Candidate Starts for BengiVuitton_59:

(Start: 28 @38618 has 207 MA's), (46, 38477), (48, 38471), (49, 38468), (50, 38465), (55, 38438), (56, 38411), (61, 38372),

Gene: Benvolio_54 Start: 37431, Stop: 37108, Start Num: 28

Candidate Starts for Benvolio_54:

(Start: 28 @37431 has 207 MA's), (46, 37293), (48, 37287), (49, 37284), (50, 37281), (55, 37254), (56, 37227), (61, 37188), (65, 37158), (69, 37137),

Gene: BiancaTri92_57 Start: 38766, Stop: 38494, Start Num: 28

Candidate Starts for BiancaTri92_57:

(Start: 28 @38766 has 207 MA's), (46, 38631), (48, 38625), (49, 38622), (50, 38619), (55, 38592), (56, 38565), (61, 38526),

Gene: Bigflo_59 Start: 37992, Stop: 37699, Start Num: 28
Candidate Starts for Bigflo_59:
(7, 38079), (Start: 28 @37992 has 207 MA's), (46, 37851), (50, 37839), (52, 37830), (72, 37713),

Gene: Blackmoor_53 Start: 37382, Stop: 37107, Start Num: 25
Candidate Starts for Blackmoor_53:
(Start: 8 @37472 has 3 MA's), (Start: 25 @37382 has 119 MA's), (50, 37229), (52, 37220),

Gene: BlueBird_58 Start: 37811, Stop: 37518, Start Num: 28
Candidate Starts for BlueBird_58:
(Start: 17 @37841 has 2 MA's), (Start: 28 @37811 has 207 MA's), (38, 37715), (50, 37658), (52, 37649), (54, 37634), (72, 37532),

Gene: BobSwaget_53 Start: 36907, Stop: 36587, Start Num: 28
Candidate Starts for BobSwaget_53:
(2, 37132), (3, 37123), (Start: 28 @36907 has 207 MA's), (46, 36769), (48, 36763), (49, 36760), (50, 36757), (55, 36730), (56, 36703), (61, 36664), (69, 36613), (71, 36601),

Gene: Bombshell_53 Start: 37377, Stop: 37102, Start Num: 25
Candidate Starts for Bombshell_53:
(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: BreSam8_59 Start: 37986, Stop: 37693, Start Num: 28
Candidate Starts for BreSam8_59:
(7, 38073), (Start: 28 @37986 has 207 MA's), (46, 37845), (50, 37833), (52, 37824), (72, 37707),

Gene: Broseidon_53 Start: 37382, Stop: 37107, Start Num: 25
Candidate Starts for Broseidon_53:
(Start: 8 @37472 has 3 MA's), (Start: 25 @37382 has 119 MA's), (50, 37229), (52, 37220),

Gene: Bruiser_52 Start: 37380, Stop: 37105, Start Num: 25
Candidate Starts for Bruiser_52:
(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: BubbleTrouble_52 Start: 37380, Stop: 37105, Start Num: 25
Candidate Starts for BubbleTrouble_52:
(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Bugatti_57 Start: 37811, Stop: 37518, Start Num: 28
Candidate Starts for Bugatti_57:
(Start: 17 @37841 has 2 MA's), (Start: 28 @37811 has 207 MA's), (38, 37715), (50, 37658), (52, 37649), (54, 37634), (72, 37532),

Gene: Buggy_59 Start: 38557, Stop: 38231, Start Num: 28
Candidate Starts for Buggy_59:
(Start: 28 @38557 has 207 MA's), (46, 38419), (48, 38413), (49, 38410), (50, 38407), (55, 38380), (56, 38353), (61, 38314), (65, 38284),

Gene: Bumblebee11_51 Start: 37332, Stop: 37054, Start Num: 26
Candidate Starts for Bumblebee11_51:
(14, 37377), (15, 37374), (Start: 26 @37332 has 16 MA's), (50, 37179), (52, 37170), (54, 37155),

Gene: Burger_51 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for Burger_51:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: BuzzBuzz_57 Start: 38020, Stop: 37727, Start Num: 28

Candidate Starts for BuzzBuzz_57:

(7, 38107), (Start: 28 @38020 has 207 MA's), (46, 37879), (50, 37867), (52, 37858), (72, 37741),

Gene: Bxz2_55 Start: 38027, Stop: 37734, Start Num: 28

Candidate Starts for Bxz2_55:

(7, 38114), (Start: 28 @38027 has 207 MA's), (46, 37886), (50, 37874), (52, 37865), (72, 37748),

Gene: Caelakin_53 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for Caelakin_53:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Calvinny_59 Start: 37878, Stop: 37585, Start Num: 28

Candidate Starts for Calvinny_59:

(Start: 28 @37878 has 207 MA's), (46, 37737), (50, 37725), (52, 37716),

Gene: Camperdownii_51 Start: 37054, Stop: 36779, Start Num: 25

Candidate Starts for Camperdownii_51:

(Start: 8 @37144 has 3 MA's), (Start: 25 @37054 has 119 MA's), (50, 36901), (52, 36892),

Gene: Catalina_58 Start: 37957, Stop: 37679, Start Num: 28

Candidate Starts for Catalina_58:

(Start: 28 @37957 has 207 MA's), (46, 37819), (48, 37813), (49, 37810), (50, 37807), (55, 37780), (59, 37726), (61, 37714),

Gene: Caviar_55 Start: 37764, Stop: 37474, Start Num: 28

Candidate Starts for Caviar_55:

(Start: 17 @37794 has 2 MA's), (Start: 28 @37764 has 207 MA's), (50, 37611), (52, 37602), (54, 37587),

Gene: Centaur_58 Start: 38387, Stop: 38070, Start Num: 28

Candidate Starts for Centaur_58:

(Start: 28 @38387 has 207 MA's), (46, 38252), (48, 38246), (49, 38243), (50, 38240), (55, 38213), (56, 38186), (61, 38147), (69, 38096),

Gene: CentreCat_53 Start: 37383, Stop: 37108, Start Num: 25

Candidate Starts for CentreCat_53:

(Start: 8 @37473 has 3 MA's), (Start: 25 @37383 has 119 MA's), (50, 37230), (52, 37221),

Gene: Cerulean_54 Start: 37817, Stop: 37542, Start Num: 25

Candidate Starts for Cerulean_54:

(Start: 13 @37862 has 2 MA's), (22, 37823), (Start: 25 @37817 has 119 MA's), (50, 37664), (52, 37655),

Gene: ChampagnePapi_55 Start: 37816, Stop: 37541, Start Num: 25

Candidate Starts for ChampagnePapi_55:

(Start: 13 @37861 has 2 MA's), (22, 37822), (Start: 25 @37816 has 119 MA's), (50, 37663), (52, 37654),

Gene: Chaph_53 Start: 37391, Stop: 37116, Start Num: 25
Candidate Starts for Chaph_53:
(Start: 8 @37481 has 3 MA's), (Start: 25 @37391 has 119 MA's), (50, 37238), (52, 37229),

Gene: Chilliams_168 Start: 104931, Stop: 105227, Start Num: 33
Candidate Starts for Chilliams_168:
(27, 104901), (33, 104931), (50, 105087), (53, 105102),

Gene: ChipMunk_59 Start: 39757, Stop: 39434, Start Num: 28
Candidate Starts for ChipMunk_59:
(Start: 28 @39757 has 207 MA's), (43, 39637), (46, 39619), (48, 39613), (49, 39610), (50, 39607), (55, 39580), (56, 39553), (61, 39514),

Gene: Chiqui_54 Start: 37809, Stop: 37516, Start Num: 28
Candidate Starts for Chiqui_54:
(Start: 28 @37809 has 207 MA's), (50, 37656), (52, 37647), (54, 37632),

Gene: Chupacabra_53 Start: 37296, Stop: 37006, Start Num: 28
Candidate Starts for Chupacabra_53:
(Start: 17 @37323 has 2 MA's), (Start: 28 @37296 has 207 MA's), (46, 37155), (50, 37143), (52, 37134), (54, 37119),

Gene: Cici_52 Start: 37347, Stop: 37069, Start Num: 26
Candidate Starts for Cici_52:
(14, 37392), (15, 37389), (Start: 26 @37347 has 16 MA's), (50, 37194), (52, 37185), (54, 37170),

Gene: Cindaradix_50 Start: 37055, Stop: 36735, Start Num: 13
Candidate Starts for Cindaradix_50:
(Start: 13 @37055 has 2 MA's), (Start: 25 @37010 has 119 MA's), (50, 36857), (52, 36848),

Gene: Cintron_52 Start: 37357, Stop: 37082, Start Num: 25
Candidate Starts for Cintron_52:
(Start: 8 @37447 has 3 MA's), (Start: 25 @37357 has 119 MA's), (50, 37204), (52, 37195),

Gene: Citius_53 Start: 37401, Stop: 37126, Start Num: 25
Candidate Starts for Citius_53:
(Start: 8 @37491 has 3 MA's), (Start: 25 @37401 has 119 MA's), (50, 37248), (52, 37239),

Gene: Clarenza_52 Start: 37377, Stop: 37102, Start Num: 25
Candidate Starts for Clarenza_52:
(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: Cocoaberry_53 Start: 37384, Stop: 37109, Start Num: 25
Candidate Starts for Cocoaberry_53:
(Start: 8 @37474 has 3 MA's), (Start: 25 @37384 has 119 MA's), (50, 37231), (52, 37222),

Gene: Colbster_59 Start: 37996, Stop: 37703, Start Num: 28
Candidate Starts for Colbster_59:
(7, 38083), (Start: 28 @37996 has 207 MA's), (46, 37855), (50, 37843), (52, 37834), (72, 37717),

Gene: Commander_53 Start: 37379, Stop: 37104, Start Num: 25
Candidate Starts for Commander_53:
(Start: 8 @37469 has 3 MA's), (Start: 25 @37379 has 119 MA's), (50, 37226), (52, 37217),

Gene: Connomayer_53 Start: 37380, Stop: 37105, Start Num: 25
Candidate Starts for Connomayer_53:
(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Conquerage_57 Start: 38028, Stop: 37750, Start Num: 28
Candidate Starts for Conquerage_57:
(Start: 28 @38028 has 207 MA's), (46, 37890), (48, 37884), (49, 37881), (50, 37878), (55, 37851), (59, 37797), (61, 37785),

Gene: Cullens_59 Start: 37992, Stop: 37699, Start Num: 28
Candidate Starts for Cullens_59:
(7, 38079), (Start: 28 @37992 has 207 MA's), (46, 37851), (50, 37839), (52, 37830), (72, 37713),

Gene: DaHudson_59 Start: 37985, Stop: 37692, Start Num: 28
Candidate Starts for DaHudson_59:
(7, 38072), (Start: 28 @37985 has 207 MA's), (46, 37844), (50, 37832), (52, 37823), (72, 37706),

Gene: Daishi_58 Start: 36861, Stop: 36568, Start Num: 28
Candidate Starts for Daishi_58:
(7, 36948), (Start: 28 @36861 has 207 MA's), (46, 36720), (50, 36708), (52, 36699), (72, 36582),

Gene: Dalmatian_58 Start: 38380, Stop: 38057, Start Num: 28
Candidate Starts for Dalmatian_58:
(Start: 28 @38380 has 207 MA's), (37, 38314), (43, 38260), (46, 38242), (48, 38236), (49, 38233), (50, 38230), (55, 38203), (56, 38176), (61, 38137), (65, 38107),

Gene: Darrell_59 Start: 38653, Stop: 38372, Start Num: 28
Candidate Starts for Darrell_59:
(Start: 28 @38653 has 207 MA's), (44, 38530), (46, 38515), (48, 38509), (49, 38506), (50, 38503), (55, 38476), (56, 38449), (61, 38410),

Gene: Datway_52 Start: 37318, Stop: 37040, Start Num: 26
Candidate Starts for Datway_52:
(14, 37363), (15, 37360), (Start: 26 @37318 has 16 MA's), (50, 37165), (52, 37156), (54, 37141),

Gene: Deano_52 Start: 37388, Stop: 37113, Start Num: 25
Candidate Starts for Deano_52:
(Start: 8 @37478 has 3 MA's), (Start: 25 @37388 has 119 MA's), (50, 37235), (52, 37226),

Gene: Deloris_58 Start: 38287, Stop: 37961, Start Num: 28
Candidate Starts for Deloris_58:
(Start: 28 @38287 has 207 MA's), (46, 38146), (48, 38140), (49, 38137), (50, 38134), (55, 38107), (56, 38080), (61, 38041),

Gene: Dhanush_53 Start: 37383, Stop: 37108, Start Num: 25
Candidate Starts for Dhanush_53:
(Start: 8 @37473 has 3 MA's), (Start: 25 @37383 has 119 MA's), (50, 37230), (52, 37221),

Gene: Dieselweasel_60 Start: 37995, Stop: 37702, Start Num: 28
Candidate Starts for Dieselweasel_60:
(7, 38082), (Start: 28 @37995 has 207 MA's), (46, 37854), (50, 37842), (52, 37833), (72, 37716),

Gene: Dignity_59 Start: 38580, Stop: 38254, Start Num: 28
Candidate Starts for Dignity_59:
(Start: 28 @38580 has 207 MA's), (46, 38442), (48, 38436), (49, 38433), (50, 38430), (55, 38403), (56, 38376), (61, 38337), (65, 38307),

Gene: DillyDally_35 Start: 25564, Stop: 25857, Start Num: 28
Candidate Starts for DillyDally_35:
(6, 25441), (10, 25492), (19, 25540), (21, 25549), (Start: 28 @25564 has 207 MA's), (36, 25630), (42, 25696),

Gene: DirtyDunning_52 Start: 37392, Stop: 37117, Start Num: 25
Candidate Starts for DirtyDunning_52:
(Start: 8 @37482 has 3 MA's), (Start: 25 @37392 has 119 MA's), (50, 37239), (52, 37230),

Gene: DontArgue_53 Start: 36479, Stop: 36180, Start Num: 28
Candidate Starts for DontArgue_53:
(Start: 28 @36479 has 207 MA's), (46, 36329), (50, 36317), (52, 36308), (54, 36293), (74, 36185),

Gene: Drake55_59 Start: 38469, Stop: 38149, Start Num: 28
Candidate Starts for Drake55_59:
(Start: 28 @38469 has 207 MA's), (37, 38403), (48, 38325), (49, 38322), (50, 38319), (55, 38292), (56, 38265), (61, 38226), (69, 38175),

Gene: Drake94_52 Start: 36531, Stop: 36241, Start Num: 28
Candidate Starts for Drake94_52:
(Start: 28 @36531 has 207 MA's), (46, 36390), (50, 36378), (52, 36369), (54, 36354),

Gene: DropBear_56 Start: 37707, Stop: 37414, Start Num: 28
Candidate Starts for DropBear_56:
(Start: 28 @37707 has 207 MA's), (50, 37554), (52, 37545), (54, 37530),

Gene: Druantia_53 Start: 37383, Stop: 37108, Start Num: 25
Candidate Starts for Druantia_53:
(Start: 8 @37473 has 3 MA's), (Start: 25 @37383 has 119 MA's), (50, 37230), (52, 37221),

Gene: DudeLittle_56 Start: 38146, Stop: 37823, Start Num: 28
Candidate Starts for DudeLittle_56:
(Start: 28 @38146 has 207 MA's), (37, 38080), (46, 38008), (48, 38002), (49, 37999), (50, 37996), (55, 37969), (56, 37942), (61, 37903), (65, 37873),

Gene: DustyMartin_58 Start: 37428, Stop: 37081, Start Num: 17
Candidate Starts for DustyMartin_58:
(Start: 17 @37428 has 2 MA's), (Start: 28 @37398 has 207 MA's), (46, 37257), (50, 37245), (52, 37236), (54, 37221), (68, 37125),

Gene: EZMoney23_55 Start: 37861, Stop: 37586, Start Num: 28
Candidate Starts for EZMoney23_55:
(Start: 28 @37861 has 207 MA's), (44, 37738), (46, 37723), (48, 37717), (49, 37714), (50, 37711), (55, 37684), (56, 37657), (61, 37618),

Gene: Eagle_53 Start: 37405, Stop: 37130, Start Num: 25
Candidate Starts for Eagle_53:
(Start: 8 @37495 has 3 MA's), (Start: 25 @37405 has 119 MA's), (50, 37252), (52, 37243),

Gene: Eaglepride_55 Start: 37480, Stop: 37070, Start Num: 28
Candidate Starts for Eaglepride_55:
(Start: 28 @37480 has 207 MA's), (39, 37381), (46, 37339), (50, 37327), (52, 37318), (78, 37099),

Gene: Eapen_53 Start: 37375, Stop: 37100, Start Num: 25
Candidate Starts for Eapen_53:
(Start: 8 @37465 has 3 MA's), (Start: 25 @37375 has 119 MA's), (50, 37222), (52, 37213),

Gene: Echild_57 Start: 37455, Stop: 37132, Start Num: 28
Candidate Starts for Echild_57:
(Start: 28 @37455 has 207 MA's), (46, 37317), (48, 37311), (49, 37308), (50, 37305), (55, 37278), (56, 37251), (61, 37212), (65, 37182), (69, 37161),

Gene: Edison31_53 Start: 37356, Stop: 37009, Start Num: 17
Candidate Starts for Edison31_53:
(Start: 17 @37356 has 2 MA's), (Start: 28 @37326 has 207 MA's), (46, 37185), (50, 37173), (52, 37164), (54, 37149), (68, 37053),

Gene: EdogawaKiddo_55 Start: 38005, Stop: 37727, Start Num: 28
Candidate Starts for EdogawaKiddo_55:
(Start: 28 @38005 has 207 MA's), (46, 37867), (48, 37861), (49, 37858), (50, 37855), (55, 37828), (59, 37774), (61, 37762),

Gene: Eidsmoe_57 Start: 38020, Stop: 37742, Start Num: 28
Candidate Starts for Eidsmoe_57:
(Start: 28 @38020 has 207 MA's), (46, 37882), (48, 37876), (49, 37873), (50, 37870), (55, 37843), (59, 37789), (61, 37777),

Gene: Elephantoon_56 Start: 37395, Stop: 37114, Start Num: 28
Candidate Starts for Elephantoon_56:
(Start: 28 @37395 has 207 MA's), (46, 37257), (48, 37251), (49, 37248), (50, 37245), (55, 37218), (56, 37191), (61, 37152),

Gene: EmyBug_56 Start: 38022, Stop: 37744, Start Num: 28
Candidate Starts for EmyBug_56:
(Start: 28 @38022 has 207 MA's), (46, 37884), (48, 37878), (49, 37875), (50, 37872), (55, 37845), (59, 37791), (61, 37779),

Gene: EpicPhail_60 Start: 37996, Stop: 37703, Start Num: 28
Candidate Starts for EpicPhail_60:
(7, 38083), (Start: 28 @37996 has 207 MA's), (46, 37855), (50, 37843), (52, 37834), (72, 37717),

Gene: Equemioh13_58 Start: 38292, Stop: 37972, Start Num: 28
Candidate Starts for Equemioh13_58:
(Start: 28 @38292 has 207 MA's), (37, 38226), (48, 38148), (49, 38145), (50, 38142), (55, 38115), (56, 38088), (61, 38049), (69, 37998),

Gene: Eris_52 Start: 37380, Stop: 37105, Start Num: 25
Candidate Starts for Eris_52:
(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Eros_53 Start: 37382, Stop: 37107, Start Num: 25

Candidate Starts for Eros_53:

(Start: 8 @37472 has 3 MA's), (Start: 25 @37382 has 119 MA's), (50, 37229), (52, 37220),

Gene: Eurydice_54 Start: 37377, Stop: 37102, Start Num: 25

Candidate Starts for Eurydice_54:

(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: EvilGenius_59 Start: 39758, Stop: 39435, Start Num: 28

Candidate Starts for EvilGenius_59:

(Start: 28 @39758 has 207 MA's), (43, 39638), (46, 39620), (48, 39614), (49, 39611), (50, 39608), (55, 39581), (56, 39554), (61, 39515),

Gene: ExplosioNervosa_57 Start: 38088, Stop: 37810, Start Num: 28

Candidate Starts for ExplosioNervosa_57:

(Start: 28 @38088 has 207 MA's), (46, 37950), (48, 37944), (49, 37941), (50, 37938), (55, 37911), (59, 37857), (61, 37845),

Gene: Farber_59 Start: 37982, Stop: 37689, Start Num: 28

Candidate Starts for Farber_59:

(7, 38069), (Start: 28 @37982 has 207 MA's), (46, 37841), (50, 37829), (52, 37820), (72, 37703),

Gene: Fayely_57 Start: 37989, Stop: 37711, Start Num: 28

Candidate Starts for Fayely_57:

(Start: 28 @37989 has 207 MA's), (46, 37851), (48, 37845), (49, 37842), (50, 37839), (55, 37812), (59, 37758), (61, 37746),

Gene: Fernando_59 Start: 37992, Stop: 37699, Start Num: 28

Candidate Starts for Fernando_59:

(7, 38079), (Start: 28 @37992 has 207 MA's), (46, 37851), (50, 37839), (52, 37830), (72, 37713),

Gene: First_0059 Start: 38547, Stop: 38224, Start Num: 28

Candidate Starts for First_0059:

(Start: 28 @38547 has 207 MA's), (44, 38424), (46, 38409), (48, 38403), (49, 38400), (50, 38397), (55, 38370), (56, 38343), (61, 38304),

Gene: Flare16_57 Start: 38048, Stop: 37731, Start Num: 28

Candidate Starts for Flare16_57:

(Start: 28 @38048 has 207 MA's), (46, 37913), (48, 37907), (49, 37904), (50, 37901), (55, 37874), (56, 37847), (61, 37808), (69, 37757),

Gene: Florean_53 Start: 37379, Stop: 37104, Start Num: 25

Candidate Starts for Florean_53:

(Start: 8 @37469 has 3 MA's), (Start: 25 @37379 has 119 MA's), (50, 37226), (52, 37217),

Gene: Flux_53 Start: 37379, Stop: 37104, Start Num: 25

Candidate Starts for Flux_53:

(Start: 8 @37469 has 3 MA's), (Start: 25 @37379 has 119 MA's), (50, 37226), (52, 37217),

Gene: Fred313_56 Start: 37398, Stop: 37105, Start Num: 28

Candidate Starts for Fred313_56:

(Start: 28 @37398 has 207 MA's), (50, 37245), (52, 37236), (54, 37221),

Gene: Funston_52 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for Funston_52:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: GMA6_111 Start: 81832, Stop: 82194, Start Num: 30

Candidate Starts for GMA6_111:

(6, 81709), (9, 81754), (12, 81769), (20, 81808), (30, 81832), (34, 81868), (41, 81946), (42, 81955), (45, 81964), (53, 82006), (64, 82105), (73, 82153), (76, 82162),

Gene: Gadost_53 Start: 37384, Stop: 37109, Start Num: 25

Candidate Starts for Gadost_53:

(Start: 8 @37474 has 3 MA's), (Start: 25 @37384 has 119 MA's), (50, 37231), (52, 37222),

Gene: GaugeLDP_55 Start: 38243, Stop: 37968, Start Num: 28

Candidate Starts for GaugeLDP_55:

(Start: 28 @38243 has 207 MA's), (46, 38105), (48, 38099), (49, 38096), (50, 38093), (55, 38066), (56, 38039), (61, 38000),

Gene: Gemma_58 Start: 37874, Stop: 37581, Start Num: 28

Candidate Starts for Gemma_58:

(Start: 28 @37874 has 207 MA's), (39, 37775), (46, 37733), (50, 37721), (52, 37712),

Gene: GingkoMaracino_59 Start: 37878, Stop: 37585, Start Num: 28

Candidate Starts for GingkoMaracino_59:

(7, 37965), (Start: 28 @37878 has 207 MA's), (46, 37737), (50, 37725), (52, 37716), (72, 37599),

Gene: Giroux_57 Start: 37810, Stop: 37517, Start Num: 28

Candidate Starts for Giroux_57:

(Start: 17 @37840 has 2 MA's), (Start: 28 @37810 has 207 MA's), (38, 37714), (50, 37657), (52, 37648), (54, 37633), (72, 37531),

Gene: Godines_56 Start: 50854, Stop: 50540, Start Num: 18

Candidate Starts for Godines_56:

(Start: 18 @50854 has 3 MA's), (32, 50806), (41, 50707), (46, 50674), (53, 50647), (62, 50569),

Gene: Goose_54 Start: 37112, Stop: 36822, Start Num: 28

Candidate Starts for Goose_54:

(Start: 17 @37139 has 2 MA's), (Start: 28 @37112 has 207 MA's), (46, 36971), (50, 36959), (52, 36950), (54, 36935),

Gene: Gratitude_57 Start: 38292, Stop: 37972, Start Num: 28

Candidate Starts for Gratitude_57:

(Start: 28 @38292 has 207 MA's), (37, 38226), (48, 38148), (49, 38145), (50, 38142), (55, 38115), (56, 38088), (61, 38049), (69, 37998),

Gene: Grif_59 Start: 38067, Stop: 37774, Start Num: 28

Candidate Starts for Grif_59:

(7, 38154), (Start: 28 @38067 has 207 MA's), (46, 37926), (50, 37914), (52, 37905), (72, 37788),

Gene: Groupthink_60 Start: 37878, Stop: 37585, Start Num: 28

Candidate Starts for Groupthink_60:

(Start: 28 @37878 has 207 MA's), (46, 37737), (50, 37725), (52, 37716),

Gene: Grub_59 Start: 37984, Stop: 37691, Start Num: 28

Candidate Starts for Grub_59:

(7, 38071), (Start: 28 @37984 has 207 MA's), (46, 37843), (50, 37831), (52, 37822), (72, 37705),

Gene: Grum1_59 Start: 37992, Stop: 37699, Start Num: 28

Candidate Starts for Grum1_59:

(7, 38079), (Start: 28 @37992 has 207 MA's), (46, 37851), (50, 37839), (52, 37830), (72, 37713),

Gene: GtownJaz_59 Start: 37994, Stop: 37701, Start Num: 28

Candidate Starts for GtownJaz_59:

(7, 38081), (Start: 28 @37994 has 207 MA's), (46, 37853), (50, 37841), (52, 37832), (72, 37715),

Gene: HamSlice_52 Start: 37468, Stop: 37103, Start Num: 8

Candidate Starts for HamSlice_52:

(Start: 8 @37468 has 3 MA's), (Start: 25 @37378 has 119 MA's), (50, 37225), (52, 37216),

Gene: Hanray_55 Start: 38009, Stop: 37731, Start Num: 28

Candidate Starts for Hanray_55:

(Start: 28 @38009 has 207 MA's), (46, 37871), (48, 37865), (49, 37862), (50, 37859), (55, 37832), (59, 37778), (61, 37766),

Gene: Happiness_52 Start: 37399, Stop: 37124, Start Num: 25

Candidate Starts for Happiness_52:

(Start: 13 @37444 has 2 MA's), (22, 37405), (Start: 25 @37399 has 119 MA's), (50, 37246), (52, 37237),

Gene: HarryHoudini_58 Start: 38478, Stop: 38158, Start Num: 28

Candidate Starts for HarryHoudini_58:

(Start: 28 @38478 has 207 MA's), (37, 38412), (48, 38334), (49, 38331), (50, 38328), (55, 38301), (56, 38274), (61, 38235), (69, 38184),

Gene: HashRod_60 Start: 38020, Stop: 37727, Start Num: 28

Candidate Starts for HashRod_60:

(7, 38107), (Start: 28 @38020 has 207 MA's), (46, 37879), (50, 37867), (52, 37858), (72, 37741),

Gene: HaveUMetTed_60 Start: 37863, Stop: 37570, Start Num: 28

Candidate Starts for HaveUMetTed_60:

(Start: 28 @37863 has 207 MA's), (46, 37722), (50, 37710), (52, 37701),

Gene: Heathen_56 Start: 37496, Stop: 37203, Start Num: 28

Candidate Starts for Heathen_56:

(Start: 28 @37496 has 207 MA's), (50, 37343), (52, 37334), (54, 37319),

Gene: HelDan_56 Start: 37712, Stop: 37419, Start Num: 28

Candidate Starts for HelDan_56:

(Start: 28 @37712 has 207 MA's), (50, 37559), (52, 37550), (54, 37535),

Gene: Heliosoles_58 Start: 37881, Stop: 37588, Start Num: 28

Candidate Starts for Heliosoles_58:

(Start: 28 @37881 has 207 MA's), (46, 37740), (50, 37728), (52, 37719),

Gene: Hercules11_59 Start: 38001, Stop: 37708, Start Num: 28

Candidate Starts for Hercules11_59:

(7, 38088), (Start: 28 @38001 has 207 MA's), (46, 37860), (50, 37848), (52, 37839), (72, 37722),

Gene: Holec_56 Start: 38025, Stop: 37747, Start Num: 28

Candidate Starts for Holec_56:

(Start: 28 @38025 has 207 MA's), (46, 37887), (48, 37881), (49, 37878), (50, 37875), (55, 37848), (59, 37794), (61, 37782),

Gene: Holli_52 Start: 37170, Stop: 36895, Start Num: 25

Candidate Starts for Holli_52:

(Start: 8 @37260 has 3 MA's), (Start: 25 @37170 has 119 MA's), (50, 37017), (52, 37008),

Gene: Hookmount_55 Start: 37765, Stop: 37475, Start Num: 28

Candidate Starts for Hookmount_55:

(Start: 17 @37795 has 2 MA's), (Start: 28 @37765 has 207 MA's), (50, 37612), (52, 37603), (54, 37588),

Gene: HortumSL17_57 Start: 37956, Stop: 37678, Start Num: 28

Candidate Starts for HortumSL17_57:

(Start: 28 @37956 has 207 MA's), (46, 37818), (48, 37812), (49, 37809), (50, 37806), (55, 37779), (59, 37725), (61, 37713),

Gene: Houdini22_53 Start: 37384, Stop: 37109, Start Num: 25

Candidate Starts for Houdini22_53:

(Start: 8 @37474 has 3 MA's), (Start: 25 @37384 has 119 MA's), (50, 37231), (52, 37222),

Gene: Huxley_53 Start: 37441, Stop: 37166, Start Num: 25

Candidate Starts for Huxley_53:

(Start: 8 @37531 has 3 MA's), (Start: 25 @37441 has 119 MA's), (50, 37288), (52, 37279),

Gene: ICleared_53 Start: 37409, Stop: 37134, Start Num: 25

Candidate Starts for ICleared_53:

(Start: 8 @37499 has 3 MA's), (Start: 25 @37409 has 119 MA's), (50, 37256), (52, 37247),

Gene: Iceman_53 Start: 37666, Stop: 37391, Start Num: 25

Candidate Starts for Iceman_53:

(Start: 8 @37756 has 3 MA's), (Start: 25 @37666 has 119 MA's), (50, 37513), (52, 37504),

Gene: Idleandcovert_57 Start: 37811, Stop: 37518, Start Num: 28

Candidate Starts for Idleandcovert_57:

(Start: 17 @37841 has 2 MA's), (Start: 28 @37811 has 207 MA's), (38, 37715), (50, 37658), (52, 37649), (54, 37634), (72, 37532),

Gene: Iracema64_54 Start: 37644, Stop: 37369, Start Num: 25

Candidate Starts for Iracema64_54:

(Start: 8 @37734 has 3 MA's), (Start: 25 @37644 has 119 MA's), (50, 37491), (52, 37482),

Gene: IronMan_57 Start: 39193, Stop: 38867, Start Num: 28

Candidate Starts for IronMan_57:

(Start: 28 @39193 has 207 MA's), (46, 39052), (48, 39046), (49, 39043), (50, 39040), (55, 39013), (56, 38986), (61, 38947), (65, 38917), (69, 38896),

Gene: Isca_55 Start: 37278, Stop: 36985, Start Num: 28

Candidate Starts for Isca_55:

(Start: 11 @37332 has 1 MA's), (Start: 28 @37278 has 207 MA's), (50, 37125), (52, 37116), (54, 37101),

Gene: Iwokeuplikedis_60 Start: 38111, Stop: 37788, Start Num: 28

Candidate Starts for Iwokeuplikedis_60:

(Start: 28 @38111 has 207 MA's), (46, 37973), (48, 37967), (49, 37964), (50, 37961), (55, 37934), (56, 37907), (61, 37868), (65, 37838), (69, 37817),

Gene: JF2_54 Start: 35979, Stop: 35686, Start Num: 28

Candidate Starts for JF2_54:

(Start: 11 @36033 has 1 MA's), (Start: 28 @35979 has 207 MA's), (50, 35826), (52, 35817), (54, 35802),

Gene: JF4_54 Start: 35979, Stop: 35686, Start Num: 28

Candidate Starts for JF4_54:

(Start: 11 @36033 has 1 MA's), (Start: 28 @35979 has 207 MA's), (50, 35826), (52, 35817), (54, 35802),

Gene: JHC117_59 Start: 37991, Stop: 37698, Start Num: 28

Candidate Starts for JHC117_59:

(Start: 28 @37991 has 207 MA's), (50, 37838), (52, 37829), (72, 37712),

Gene: Jaan_57 Start: 39353, Stop: 39033, Start Num: 28

Candidate Starts for Jaan_57:

(Start: 28 @39353 has 207 MA's), (46, 39218), (48, 39212), (49, 39209), (50, 39206), (55, 39179), (56, 39152), (61, 39113), (65, 39083), (69, 39062),

Gene: Jaykayelowell_51 Start: 37373, Stop: 37098, Start Num: 25

Candidate Starts for Jaykayelowell_51:

(Start: 8 @37463 has 3 MA's), (Start: 25 @37373 has 119 MA's), (50, 37220), (52, 37211),

Gene: JenCasNa_60 Start: 37992, Stop: 37699, Start Num: 28

Candidate Starts for JenCasNa_60:

(7, 38079), (Start: 28 @37992 has 207 MA's), (46, 37851), (50, 37839), (52, 37830), (72, 37713),

Gene: JeppNRM_60 Start: 37879, Stop: 37586, Start Num: 28

Candidate Starts for JeppNRM_60:

(Start: 28 @37879 has 207 MA's), (46, 37738), (50, 37726), (52, 37717),

Gene: Jerm_59 Start: 38572, Stop: 38246, Start Num: 28

Candidate Starts for Jerm_59:

(Start: 28 @38572 has 207 MA's), (46, 38434), (48, 38428), (49, 38425), (50, 38422), (55, 38395), (56, 38368), (61, 38329), (65, 38299),

Gene: JetBlade_53 Start: 37374, Stop: 37099, Start Num: 25

Candidate Starts for JetBlade_53:

(Start: 8 @37464 has 3 MA's), (Start: 25 @37374 has 119 MA's), (50, 37221), (52, 37212),

Gene: Jiawan_55 Start: 38041, Stop: 37763, Start Num: 28

Candidate Starts for Jiawan_55:

(Start: 28 @38041 has 207 MA's), (46, 37903), (48, 37897), (49, 37894), (50, 37891), (55, 37864), (59, 37810), (61, 37798),

Gene: Jobu08_58 Start: 37824, Stop: 37531, Start Num: 28

Candidate Starts for Jobu08_58:

(7, 37911), (Start: 28 @37824 has 207 MA's), (50, 37671), (52, 37662), (72, 37545),

Gene: JoongJeon_52 Start: 37377, Stop: 37102, Start Num: 25

Candidate Starts for JoongJeon_52:

(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: KADY_59 Start: 38020, Stop: 37727, Start Num: 28

Candidate Starts for KADY_59:

(7, 38107), (Start: 28 @38020 has 207 MA's), (46, 37879), (50, 37867), (52, 37858), (72, 37741),

Gene: KFPoly_52 Start: 37374, Stop: 37099, Start Num: 25

Candidate Starts for KFPoly_52:

(Start: 8 @37464 has 3 MA's), (Start: 25 @37374 has 119 MA's), (50, 37221), (52, 37212),

Gene: Kachowdy_56 Start: 37748, Stop: 37455, Start Num: 28

Candidate Starts for Kachowdy_56:

(Start: 28 @37748 has 207 MA's), (50, 37595), (52, 37586), (54, 37571),

Gene: Kalb97_60 Start: 37877, Stop: 37584, Start Num: 28

Candidate Starts for Kalb97_60:

(Start: 28 @37877 has 207 MA's), (46, 37736), (50, 37724), (52, 37715),

Gene: Kalnoky_60 Start: 37875, Stop: 37582, Start Num: 28

Candidate Starts for Kalnoky_60:

(Start: 28 @37875 has 207 MA's), (46, 37734), (50, 37722), (52, 37713),

Gene: Kampy_53 Start: 37472, Stop: 37107, Start Num: 8

Candidate Starts for Kampy_53:

(Start: 8 @37472 has 3 MA's), (Start: 25 @37382 has 119 MA's), (50, 37229), (52, 37220),

Gene: Katalie136_52 Start: 37332, Stop: 37054, Start Num: 26

Candidate Starts for Katalie136_52:

(14, 37377), (15, 37374), (Start: 26 @37332 has 16 MA's), (50, 37179), (52, 37170), (54, 37155),

Gene: Keziacharles14_57 Start: 39097, Stop: 38816, Start Num: 28

Candidate Starts for Keziacharles14_57:

(Start: 28 @39097 has 207 MA's), (39, 39004), (44, 38974), (46, 38959), (48, 38953), (49, 38950), (50, 38947), (55, 38920), (56, 38893), (61, 38854),

Gene: Kimona_53 Start: 35989, Stop: 35708, Start Num: 25

Candidate Starts for Kimona_53:

(Start: 17 @36016 has 2 MA's), (Start: 25 @35989 has 119 MA's), (38, 35881), (46, 35836), (50, 35824), (52, 35815), (54, 35800), (56, 35770),

Gene: KingCyrus_59 Start: 39753, Stop: 39430, Start Num: 28

Candidate Starts for KingCyrus_59:

(Start: 28 @39753 has 207 MA's), (43, 39633), (46, 39615), (48, 39609), (49, 39606), (50, 39603), (55, 39576), (56, 39549), (61, 39510),

Gene: Kingmustik0402_53 Start: 37369, Stop: 37094, Start Num: 25

Candidate Starts for Kingmustik0402_53:

(Start: 8 @37459 has 3 MA's), (Start: 25 @37369 has 119 MA's), (50, 37216), (52, 37207),

Gene: KittenMittens_51 Start: 36539, Stop: 36249, Start Num: 28

Candidate Starts for KittenMittens_51:

(Start: 28 @36539 has 207 MA's), (46, 36398), (50, 36386), (52, 36377), (54, 36362),

Gene: Koan_51 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for Koan_51:

(Start: 8 @37470 has 3 MA's), (23, 37383), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Koreni_52 Start: 37061, Stop: 36786, Start Num: 25

Candidate Starts for Koreni_52:

(Start: 8 @37151 has 3 MA's), (Start: 25 @37061 has 119 MA's), (50, 36908), (52, 36899),

Gene: Kratark_53 Start: 37535, Stop: 37260, Start Num: 25

Candidate Starts for Kratark_53:

(Start: 13 @37580 has 2 MA's), (Start: 25 @37535 has 119 MA's), (50, 37382), (52, 37373), (54, 37358),

Gene: Kremtemulon_53 Start: 37328, Stop: 37053, Start Num: 25

Candidate Starts for Kremtemulon_53:

(Start: 8 @37418 has 3 MA's), (Start: 25 @37328 has 119 MA's), (50, 37175), (52, 37166),

Gene: Kristoff_54 Start: 37714, Stop: 37370, Start Num: 17

Candidate Starts for Kristoff_54:

(Start: 17 @37714 has 2 MA's), (Start: 28 @37687 has 207 MA's), (46, 37546), (50, 37534), (52, 37525), (54, 37510), (68, 37414),

Gene: Kyee_53 Start: 37378, Stop: 37103, Start Num: 25

Candidate Starts for Kyee_53:

(Start: 8 @37468 has 3 MA's), (Start: 25 @37378 has 119 MA's), (50, 37225), (52, 37216),

Gene: LBerry_60 Start: 37996, Stop: 37703, Start Num: 28

Candidate Starts for LBerry_60:

(7, 38083), (Start: 28 @37996 has 207 MA's), (46, 37855), (50, 37843), (52, 37834), (72, 37717),

Gene: LHTSCC_55 Start: 37816, Stop: 37541, Start Num: 25

Candidate Starts for LHTSCC_55:

(Start: 13 @37861 has 2 MA's), (Start: 25 @37816 has 119 MA's), (50, 37663), (52, 37654),

Gene: Lambert1_55 Start: 37764, Stop: 37474, Start Num: 28

Candidate Starts for Lambert1_55:

(Start: 17 @37794 has 2 MA's), (Start: 28 @37764 has 207 MA's), (50, 37611), (52, 37602), (54, 37587),

Gene: Landor_57 Start: 39271, Stop: 38945, Start Num: 28

Candidate Starts for Landor_57:

(Start: 28 @39271 has 207 MA's), (46, 39130), (48, 39124), (49, 39121), (50, 39118), (55, 39091), (56, 39064), (61, 39025), (65, 38995), (69, 38974),

Gene: LappelDuVide_53 Start: 37379, Stop: 37104, Start Num: 25

Candidate Starts for LappelDuVide_53:

(Start: 8 @37469 has 3 MA's), (Start: 25 @37379 has 119 MA's), (50, 37226), (52, 37217),

Gene: Larenn_56 Start: 38162, Stop: 37842, Start Num: 28

Candidate Starts for Larenn_56:

(2, 38387), (3, 38378), (Start: 28 @38162 has 207 MA's), (46, 38024), (48, 38018), (49, 38015), (50, 38012), (55, 37985), (56, 37958), (61, 37919), (69, 37868), (70, 37862),

Gene: LarryKay_59 Start: 38022, Stop: 37729, Start Num: 28

Candidate Starts for LarryKay_59:

(7, 38109), (Start: 28 @38022 has 207 MA's), (46, 37881), (50, 37869), (52, 37860), (72, 37743),

Gene: Laurie_55 Start: 50282, Stop: 49968, Start Num: 18

Candidate Starts for Laurie_55:

(Start: 18 @50282 has 3 MA's), (32, 50234), (41, 50135), (46, 50102), (62, 49997), (63, 49988),

Gene: Lemur_53 Start: 37377, Stop: 37102, Start Num: 25

Candidate Starts for Lemur_53:

(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: LeoAvram_53 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for LeoAvram_53:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Leogania_57 Start: 39144, Stop: 38872, Start Num: 28

Candidate Starts for Leogania_57:

(Start: 28 @39144 has 207 MA's), (46, 39009), (48, 39003), (49, 39000), (50, 38997), (55, 38970), (56, 38943), (61, 38904),

Gene: Leviathan_59 Start: 38629, Stop: 38303, Start Num: 28

Candidate Starts for Leviathan_59:

(Start: 28 @38629 has 207 MA's), (46, 38491), (48, 38485), (49, 38482), (50, 38479), (55, 38452), (56, 38425), (61, 38386), (65, 38356),

Gene: LilTurb_58 Start: 38453, Stop: 38127, Start Num: 28

Candidate Starts for LilTurb_58:

(Start: 28 @38453 has 207 MA's), (46, 38315), (48, 38309), (49, 38306), (50, 38303), (55, 38276), (56, 38249), (61, 38210), (65, 38180),

Gene: Lilith_60 Start: 37985, Stop: 37692, Start Num: 28

Candidate Starts for Lilith_60:

(7, 38072), (Start: 28 @37985 has 207 MA's), (46, 37844), (50, 37832), (52, 37823), (72, 37706),

Gene: Lilleskat_55 Start: 37958, Stop: 37680, Start Num: 28

Candidate Starts for Lilleskat_55:

(Start: 28 @37958 has 207 MA's), (46, 37820), (48, 37814), (49, 37811), (50, 37808), (55, 37781), (59, 37727), (61, 37715),

Gene: LionsBait_59 Start: 39608, Stop: 39333, Start Num: 28

Candidate Starts for LionsBait_59:

(1, 39899), (2, 39833), (3, 39824), (Start: 28 @39608 has 207 MA's), (46, 39470), (48, 39464), (49, 39461), (50, 39458), (55, 39431), (56, 39404), (60, 39374), (61, 39365),

Gene: LittleB_53 Start: 37381, Stop: 37106, Start Num: 25

Candidate Starts for LittleB_53:

(Start: 8 @37471 has 3 MA's), (Start: 25 @37381 has 119 MA's), (50, 37228), (52, 37219),

Gene: LittleGuy_53 Start: 37276, Stop: 37001, Start Num: 25

Candidate Starts for LittleGuy_53:

(Start: 8 @37366 has 3 MA's), (Start: 25 @37276 has 119 MA's), (50, 37123), (52, 37114),

Gene: LochMonster_54 Start: 37616, Stop: 37341, Start Num: 25

Candidate Starts for LochMonster_54:

(Start: 8 @37706 has 3 MA's), (Start: 25 @37616 has 119 MA's), (50, 37463), (52, 37454),

Gene: LoneWolf_58 Start: 37989, Stop: 37708, Start Num: 28

Candidate Starts for LoneWolf_58:

(2, 38214), (3, 38205), (Start: 28 @37989 has 207 MA's), (44, 37866), (46, 37851), (48, 37845), (49, 37842), (50, 37839), (55, 37812), (56, 37785), (61, 37746),

Gene: Lorenzo_53 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for Lorenzo_53:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Loser_59 Start: 39004, Stop: 38684, Start Num: 28

Candidate Starts for Loser_59:

(Start: 28 @39004 has 207 MA's), (43, 38884), (46, 38866), (48, 38860), (49, 38857), (50, 38854), (55, 38827), (56, 38800), (61, 38761), (69, 38710),

Gene: Louie6_58 Start: 38021, Stop: 37728, Start Num: 28

Candidate Starts for Louie6_58:

(7, 38108), (Start: 28 @38021 has 207 MA's), (46, 37880), (50, 37868), (52, 37859), (72, 37742),

Gene: Lowa_59 Start: 37984, Stop: 37691, Start Num: 28

Candidate Starts for Lowa_59:

(7, 38071), (Start: 28 @37984 has 207 MA's), (46, 37843), (50, 37831), (52, 37822), (72, 37705),

Gene: LugYA_62 Start: 37993, Stop: 37700, Start Num: 28

Candidate Starts for LugYA_62:

(7, 38080), (Start: 28 @37993 has 207 MA's), (46, 37852), (50, 37840), (52, 37831), (72, 37714),

Gene: Lunsford_54 Start: 37374, Stop: 37099, Start Num: 25

Candidate Starts for Lunsford_54:

(Start: 8 @37464 has 3 MA's), (Start: 25 @37374 has 119 MA's), (50, 37221), (52, 37212),

Gene: MA5_56 Start: 37182, Stop: 36868, Start Num: 28

Candidate Starts for MA5_56:

(Start: 28 @37182 has 207 MA's), (50, 37029), (54, 37005), (75, 36894),

Gene: MK4_56 Start: 37263, Stop: 36970, Start Num: 28

Candidate Starts for MK4_56:

(Start: 11 @37317 has 1 MA's), (Start: 28 @37263 has 207 MA's), (50, 37110), (52, 37101), (54, 37086),

Gene: MadMarie_59 Start: 37994, Stop: 37701, Start Num: 28

Candidate Starts for MadMarie_59:

(7, 38081), (Start: 28 @37994 has 207 MA's), (46, 37853), (50, 37841), (52, 37832), (72, 37715),

Gene: Mainiac_59 Start: 37986, Stop: 37693, Start Num: 28
Candidate Starts for Mainiac_59:
(7, 38073), (Start: 28 @37986 has 207 MA's), (46, 37845), (50, 37833), (52, 37824), (72, 37707),

Gene: Malec_57 Start: 38729, Stop: 38409, Start Num: 28
Candidate Starts for Malec_57:
(2, 38954), (3, 38945), (Start: 28 @38729 has 207 MA's), (46, 38591), (48, 38585), (49, 38582), (50, 38579), (55, 38552), (56, 38525), (61, 38486), (69, 38435), (70, 38429),

Gene: Malinsilva_61 Start: 37984, Stop: 37691, Start Num: 28
Candidate Starts for Malinsilva_61:
(7, 38071), (Start: 28 @37984 has 207 MA's), (46, 37843), (50, 37831), (52, 37822), (72, 37705),

Gene: Manu_59 Start: 37878, Stop: 37585, Start Num: 28
Candidate Starts for Manu_59:
(Start: 28 @37878 has 207 MA's), (46, 37737), (50, 37725), (52, 37716),

Gene: MarQuardt_59 Start: 37994, Stop: 37701, Start Num: 28
Candidate Starts for MarQuardt_59:
(7, 38081), (Start: 28 @37994 has 207 MA's), (46, 37853), (50, 37841), (52, 37832), (72, 37715),

Gene: Marchesa_56 Start: 37698, Stop: 37405, Start Num: 28
Candidate Starts for Marchesa_56:
(Start: 28 @37698 has 207 MA's), (50, 37545), (52, 37536), (54, 37521),

Gene: Margo_55 Start: 37790, Stop: 37500, Start Num: 28
Candidate Starts for Margo_55:
(Start: 17 @37820 has 2 MA's), (Start: 28 @37790 has 207 MA's), (50, 37637), (52, 37628), (54, 37613),

Gene: Marie_59 Start: 37992, Stop: 37699, Start Num: 28
Candidate Starts for Marie_59:
(7, 38079), (Start: 28 @37992 has 207 MA's), (46, 37851), (50, 37839), (52, 37830), (72, 37713),

Gene: Marius_60 Start: 37875, Stop: 37582, Start Num: 28
Candidate Starts for Marius_60:
(Start: 28 @37875 has 207 MA's), (46, 37734), (50, 37722), (52, 37713),

Gene: Maverick_53 Start: 37380, Stop: 37105, Start Num: 25
Candidate Starts for Maverick_53:
(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Maxo_54 Start: 37382, Stop: 37107, Start Num: 25
Candidate Starts for Maxo_54:
(Start: 8 @37472 has 3 MA's), (Start: 25 @37382 has 119 MA's), (50, 37229), (52, 37220),

Gene: Mayonnaise_53 Start: 37380, Stop: 37105, Start Num: 25
Candidate Starts for Mayonnaise_53:
(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Mazhar510_53 Start: 37381, Stop: 37106, Start Num: 25
Candidate Starts for Mazhar510_53:
(Start: 8 @37471 has 3 MA's), (Start: 25 @37381 has 119 MA's), (50, 37228), (52, 37219),

Gene: Medusa_53 Start: 37379, Stop: 37104, Start Num: 25

Candidate Starts for Medusa_53:

(Start: 8 @37469 has 3 MA's), (Start: 25 @37379 has 119 MA's), (50, 37226), (52, 37217),

Gene: MeeZee_53 Start: 37377, Stop: 37102, Start Num: 25

Candidate Starts for MeeZee_53:

(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: Melvin_55 Start: 37375, Stop: 37100, Start Num: 25

Candidate Starts for Melvin_55:

(Start: 8 @37465 has 3 MA's), (Start: 25 @37375 has 119 MA's), (50, 37222), (52, 37213),

Gene: Methuselah_55 Start: 38016, Stop: 37723, Start Num: 28

Candidate Starts for Methuselah_55:

(7, 38103), (Start: 28 @38016 has 207 MA's), (46, 37875), (50, 37863), (52, 37854), (72, 37737),

Gene: Microwolf_59 Start: 38008, Stop: 37715, Start Num: 28

Candidate Starts for Microwolf_59:

(7, 38095), (Start: 28 @38008 has 207 MA's), (46, 37867), (50, 37855), (52, 37846), (72, 37729),

Gene: MiculUcigas_57 Start: 37951, Stop: 37634, Start Num: 28

Candidate Starts for MiculUcigas_57:

(Start: 28 @37951 has 207 MA's), (46, 37816), (48, 37810), (49, 37807), (50, 37804), (55, 37777), (56, 37750), (61, 37711), (69, 37660),

Gene: Millski_52 Start: 37381, Stop: 37106, Start Num: 25

Candidate Starts for Millski_52:

(Start: 8 @37471 has 3 MA's), (Start: 25 @37381 has 119 MA's), (50, 37228), (52, 37219),

Gene: Miramae_51 Start: 36827, Stop: 36552, Start Num: 25

Candidate Starts for Miramae_51:

(Start: 25 @36827 has 119 MA's), (50, 36674), (51, 36668), (52, 36665), (53, 36659),

Gene: Misomonster_60 Start: 38019, Stop: 37726, Start Num: 28

Candidate Starts for Misomonster_60:

(7, 38106), (Start: 28 @38019 has 207 MA's), (46, 37878), (50, 37866), (52, 37857), (72, 37740),

Gene: MoneyMay_59 Start: 37992, Stop: 37699, Start Num: 28

Candidate Starts for MoneyMay_59:

(7, 38079), (Start: 28 @37992 has 207 MA's), (46, 37851), (50, 37839), (52, 37830), (72, 37713),

Gene: Morpher26_52 Start: 37353, Stop: 37075, Start Num: 26

Candidate Starts for Morpher26_52:

(14, 37398), (15, 37395), (Start: 26 @37353 has 16 MA's), (50, 37200), (52, 37191), (54, 37176),

Gene: Morrow_54 Start: 37386, Stop: 37111, Start Num: 25

Candidate Starts for Morrow_54:

(Start: 8 @37476 has 3 MA's), (Start: 25 @37386 has 119 MA's), (50, 37233), (52, 37224),

Gene: MuchMore_62 Start: 37984, Stop: 37691, Start Num: 28

Candidate Starts for MuchMore_62:

(7, 38071), (Start: 28 @37984 has 207 MA's), (46, 37843), (50, 37831), (52, 37822), (72, 37705),

Gene: Mundrea_52 Start: 37379, Stop: 37101, Start Num: 25
Candidate Starts for Mundrea_52:
(Start: 25 @37379 has 119 MA's), (50, 37226), (52, 37217), (54, 37202),

Gene: Myxus_57 Start: 37956, Stop: 37678, Start Num: 28
Candidate Starts for Myxus_57:
(Start: 28 @37956 has 207 MA's), (46, 37818), (48, 37812), (49, 37809), (50, 37806), (55, 37779), (59, 37725), (61, 37713),

Gene: NaSiaTalie_57 Start: 38045, Stop: 37728, Start Num: 28
Candidate Starts for NaSiaTalie_57:
(Start: 28 @38045 has 207 MA's), (46, 37910), (48, 37904), (49, 37901), (50, 37898), (55, 37871), (56, 37844), (61, 37805), (69, 37754),

Gene: Nebs_54 Start: 37380, Stop: 37105, Start Num: 25
Candidate Starts for Nebs_54:
(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Nemo27_53 Start: 37379, Stop: 37104, Start Num: 25
Candidate Starts for Nemo27_53:
(Start: 8 @37469 has 3 MA's), (Start: 25 @37379 has 119 MA's), (50, 37226), (52, 37217),

Gene: NicoleTera_56 Start: 38338, Stop: 38018, Start Num: 28
Candidate Starts for NicoleTera_56:
(Start: 28 @38338 has 207 MA's), (46, 38200), (48, 38194), (49, 38191), (50, 38188), (55, 38161), (56, 38134), (61, 38095), (69, 38044),

Gene: Nigel_53 Start: 51747, Stop: 51469, Start Num: 29
Candidate Starts for Nigel_53:
(Start: 29 @51747 has 1 MA's), (31, 51735), (35, 51708), (40, 51636), (41, 51633), (46, 51603), (50, 51591), (52, 51582), (53, 51576), (58, 51525),

Gene: Noella_55 Start: 37765, Stop: 37475, Start Num: 28
Candidate Starts for Noella_55:
(Start: 17 @37795 has 2 MA's), (Start: 28 @37765 has 207 MA's), (50, 37612), (52, 37603), (54, 37588),

Gene: Noelle_53 Start: 37655, Stop: 37383, Start Num: 25
Candidate Starts for Noelle_53:
(Start: 25 @37655 has 119 MA's), (50, 37502), (52, 37493), (54, 37478),

Gene: Norbert_54 Start: 37764, Stop: 37474, Start Num: 28
Candidate Starts for Norbert_54:
(Start: 17 @37794 has 2 MA's), (Start: 28 @37764 has 207 MA's), (50, 37611), (52, 37602), (54, 37587),

Gene: NorthStar_52 Start: 37380, Stop: 37105, Start Num: 25
Candidate Starts for NorthStar_52:
(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: NotAPhaseMom_53 Start: 37384, Stop: 37109, Start Num: 25
Candidate Starts for NotAPhaseMom_53:

(Start: 8 @37474 has 3 MA's), (Start: 25 @37384 has 119 MA's), (50, 37231), (52, 37222),

Gene: NothingSpecial_55 Start: 38538, Stop: 38239, Start Num: 28

Candidate Starts for NothingSpecial_55:

(Start: 28 @38538 has 207 MA's), (43, 38418), (46, 38400), (48, 38394), (49, 38391), (50, 38388), (55, 38361), (56, 38334), (60, 38304), (61, 38295), (65, 38265),

Gene: Nyxis_53 Start: 37270, Stop: 36995, Start Num: 25

Candidate Starts for Nyxis_53:

(Start: 8 @37360 has 3 MA's), (Start: 25 @37270 has 119 MA's), (50, 37117), (52, 37108),

Gene: OKCentral2016_53 Start: 37015, Stop: 36725, Start Num: 28

Candidate Starts for OKCentral2016_53:

(Start: 17 @37042 has 2 MA's), (Start: 28 @37015 has 207 MA's), (46, 36874), (50, 36862), (52, 36853), (54, 36838),

Gene: OKaNui_53 Start: 37430, Stop: 37155, Start Num: 25

Candidate Starts for OKaNui_53:

(Start: 8 @37520 has 3 MA's), (Start: 25 @37430 has 119 MA's), (50, 37277), (52, 37268),

Gene: Obama12_54 Start: 37800, Stop: 37525, Start Num: 25

Candidate Starts for Obama12_54:

(Start: 13 @37845 has 2 MA's), (Start: 25 @37800 has 119 MA's), (50, 37647), (52, 37638),

Gene: Ohfah_54 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for Ohfah_54:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: OlanP_58 Start: 38051, Stop: 37758, Start Num: 28

Candidate Starts for OlanP_58:

(Start: 28 @38051 has 207 MA's), (39, 37952), (46, 37910), (50, 37898), (52, 37889),

Gene: Ollie_59 Start: 37863, Stop: 37570, Start Num: 28

Candidate Starts for Ollie_59:

(7, 37950), (Start: 28 @37863 has 207 MA's), (46, 37722), (50, 37710), (52, 37701), (72, 37584),

Gene: Onglai_55 Start: 36297, Stop: 36019, Start Num: 28

Candidate Starts for Onglai_55:

(Start: 28 @36297 has 207 MA's), (46, 36159), (48, 36153), (49, 36150), (50, 36147), (55, 36120), (59, 36066), (61, 36054),

Gene: P28Green_60 Start: 37995, Stop: 37702, Start Num: 28

Candidate Starts for P28Green_60:

(7, 38082), (Start: 28 @37995 has 207 MA's), (46, 37854), (50, 37842), (52, 37833), (72, 37716),

Gene: PGHhamlin_61 Start: 37984, Stop: 37691, Start Num: 28

Candidate Starts for PGHhamlin_61:

(7, 38071), (Start: 28 @37984 has 207 MA's), (46, 37843), (50, 37831), (52, 37822), (72, 37705),

Gene: PackMan_56 Start: 37956, Stop: 37678, Start Num: 28

Candidate Starts for PackMan_56:

(Start: 28 @37956 has 207 MA's), (46, 37818), (48, 37812), (49, 37809), (50, 37806), (55, 37779), (59, 37725), (61, 37713),

Gene: Palestino_52 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for Palestino_52:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Panamaxus_53 Start: 37764, Stop: 37474, Start Num: 28

Candidate Starts for Panamaxus_53:

(Start: 17 @37794 has 2 MA's), (Start: 28 @37764 has 207 MA's), (50, 37611), (52, 37602), (54, 37587),

Gene: Pawn_59 Start: 37882, Stop: 37589, Start Num: 28

Candidate Starts for Pawn_59:

(Start: 28 @37882 has 207 MA's), (46, 37741), (50, 37729), (52, 37720),

Gene: PeaceMeal1_52 Start: 36540, Stop: 36250, Start Num: 28

Candidate Starts for PeaceMeal1_52:

(Start: 28 @36540 has 207 MA's), (46, 36399), (50, 36387), (52, 36378), (54, 36363),

Gene: Peaches_53 Start: 37379, Stop: 37104, Start Num: 25

Candidate Starts for Peaches_53:

(Start: 8 @37469 has 3 MA's), (Start: 25 @37379 has 119 MA's), (50, 37226), (52, 37217),

Gene: Pembroke_59 Start: 37993, Stop: 37700, Start Num: 28

Candidate Starts for Pembroke_59:

(7, 38080), (Start: 28 @37993 has 207 MA's), (46, 37852), (50, 37840), (52, 37831), (72, 37714),

Gene: Penny1_60 Start: 37996, Stop: 37703, Start Num: 28

Candidate Starts for Penny1_60:

(7, 38083), (Start: 28 @37996 has 207 MA's), (46, 37855), (50, 37843), (52, 37834), (72, 37717),

Gene: Perplexer_52 Start: 37329, Stop: 37051, Start Num: 26

Candidate Starts for Perplexer_52:

(14, 37374), (15, 37371), (Start: 26 @37329 has 16 MA's), (50, 37176), (52, 37167), (54, 37152),

Gene: PeterPeter_53 Start: 37377, Stop: 37102, Start Num: 25

Candidate Starts for PeterPeter_53:

(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: PetiteSangsue_52 Start: 37332, Stop: 37054, Start Num: 26

Candidate Starts for PetiteSangsue_52:

(14, 37377), (15, 37374), (Start: 26 @37332 has 16 MA's), (50, 37179), (52, 37170), (54, 37155),

Gene: Phacado_53 Start: 37379, Stop: 37104, Start Num: 25

Candidate Starts for Phacado_53:

(Start: 8 @37469 has 3 MA's), (Start: 25 @37379 has 119 MA's), (50, 37226), (52, 37217),

Gene: Phaded_58 Start: 39250, Stop: 38924, Start Num: 28

Candidate Starts for Phaded_58:

(Start: 28 @39250 has 207 MA's), (46, 39109), (48, 39103), (49, 39100), (50, 39097), (55, 39070), (56, 39043), (61, 39004), (65, 38974), (69, 38953),

Gene: Phaeder_57 Start: 37956, Stop: 37678, Start Num: 28

Candidate Starts for Phaeder_57:

(Start: 28 @37956 has 207 MA's), (46, 37818), (48, 37812), (49, 37809), (50, 37806), (55, 37779), (59, 37725), (61, 37713),

Gene: Phantastic_57 Start: 37440, Stop: 37147, Start Num: 28

Candidate Starts for Phantastic_57:

(Start: 11 @37494 has 1 MA's), (Start: 28 @37440 has 207 MA's), (50, 37287), (52, 37278), (54, 37263),

Gene: Phelipe_54 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for Phelipe_54:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Phighter1804_53 Start: 37441, Stop: 37166, Start Num: 25

Candidate Starts for Phighter1804_53:

(Start: 8 @37531 has 3 MA's), (Start: 25 @37441 has 119 MA's), (50, 37288), (52, 37279),

Gene: PhishRPhriends_57 Start: 37059, Stop: 36766, Start Num: 28

Candidate Starts for PhishRPhriends_57:

(Start: 28 @37059 has 207 MA's), (46, 36918), (50, 36906), (52, 36897),

Gene: Phoebe_60 Start: 37985, Stop: 37692, Start Num: 28

Candidate Starts for Phoebe_60:

(7, 38072), (Start: 28 @37985 has 207 MA's), (46, 37844), (50, 37832), (52, 37823), (72, 37706),

Gene: Phonnegut_57 Start: 38053, Stop: 37775, Start Num: 28

Candidate Starts for Phonnegut_57:

(Start: 28 @38053 has 207 MA's), (46, 37915), (48, 37909), (49, 37906), (50, 37903), (55, 37876), (59, 37822), (61, 37810),

Gene: Phontbonne_53 Start: 37271, Stop: 36996, Start Num: 25

Candidate Starts for Phontbonne_53:

(Start: 8 @37361 has 3 MA's), (Start: 25 @37271 has 119 MA's), (50, 37118), (52, 37109),

Gene: Phoxy_59 Start: 38017, Stop: 37724, Start Num: 28

Candidate Starts for Phoxy_59:

(7, 38104), (Start: 28 @38017 has 207 MA's), (46, 37876), (50, 37864), (52, 37855), (72, 37738),

Gene: Phranny_60 Start: 37864, Stop: 37571, Start Num: 28

Candidate Starts for Phranny_60:

(Start: 28 @37864 has 207 MA's), (46, 37723), (50, 37711), (52, 37702),

Gene: Pioneer_57 Start: 38053, Stop: 37775, Start Num: 28

Candidate Starts for Pioneer_57:

(Start: 28 @38053 has 207 MA's), (46, 37915), (48, 37909), (49, 37906), (50, 37903), (55, 37876), (59, 37822), (61, 37810),

Gene: Pipcraft_51 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for Pipcraft_51:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Piro94_57 Start: 38395, Stop: 38075, Start Num: 28

Candidate Starts for Piro94_57:

(Start: 28 @38395 has 207 MA's), (37, 38329), (48, 38251), (49, 38248), (50, 38245), (55, 38218), (56, 38191), (61, 38152), (69, 38101),

Gene: Pistachio_58 Start: 37358, Stop: 37065, Start Num: 28

Candidate Starts for Pistachio_58:

(Start: 17 @37388 has 2 MA's), (Start: 28 @37358 has 207 MA's), (38, 37262), (50, 37205), (52, 37196), (54, 37181), (72, 37079),

Gene: Pocahontas_55 Start: 37761, Stop: 37471, Start Num: 28

Candidate Starts for Pocahontas_55:

(Start: 17 @37791 has 2 MA's), (Start: 28 @37761 has 207 MA's), (50, 37608), (52, 37599), (54, 37584),

Gene: Polymorphads_54 Start: 37373, Stop: 37098, Start Num: 25

Candidate Starts for Polymorphads_54:

(Start: 8 @37463 has 3 MA's), (Start: 25 @37373 has 119 MA's), (50, 37220), (52, 37211),

Gene: Poompha_53 Start: 36538, Stop: 36248, Start Num: 28

Candidate Starts for Poompha_53:

(Start: 28 @36538 has 207 MA's), (50, 36385), (52, 36376), (54, 36361),

Gene: Popcicle_55 Start: 37761, Stop: 37471, Start Num: 28

Candidate Starts for Popcicle_55:

(Start: 17 @37791 has 2 MA's), (Start: 28 @37761 has 207 MA's), (50, 37608), (52, 37599), (54, 37584),

Gene: PotatoSplit_61 Start: 37996, Stop: 37703, Start Num: 28

Candidate Starts for PotatoSplit_61:

(7, 38083), (Start: 28 @37996 has 207 MA's), (46, 37855), (50, 37843), (52, 37834), (72, 37717),

Gene: Priya_57 Start: 38023, Stop: 37745, Start Num: 28

Candidate Starts for Priya_57:

(Start: 28 @38023 has 207 MA's), (46, 37885), (48, 37879), (49, 37876), (50, 37873), (55, 37846), (59, 37792), (61, 37780),

Gene: Pukovnik_56 Start: 38902, Stop: 38582, Start Num: 28

Candidate Starts for Pukovnik_56:

(Start: 28 @38902 has 207 MA's), (46, 38767), (48, 38761), (49, 38758), (50, 38755), (55, 38728), (56, 38701), (61, 38662), (65, 38632), (69, 38611),

Gene: Pumbaa_53 Start: 37325, Stop: 37050, Start Num: 25

Candidate Starts for Pumbaa_53:

(Start: 8 @37415 has 3 MA's), (Start: 25 @37325 has 119 MA's), (50, 37172), (52, 37163),

Gene: Puppy_58 Start: 37430, Stop: 37137, Start Num: 28

Candidate Starts for Puppy_58:

(Start: 17 @37460 has 2 MA's), (Start: 28 @37430 has 207 MA's), (38, 37334), (50, 37277), (52, 37268), (54, 37253), (72, 37151),

Gene: PurpleHaze_59 Start: 37877, Stop: 37584, Start Num: 28

Candidate Starts for PurpleHaze_59:

(Start: 28 @37877 has 207 MA's), (46, 37736), (50, 37724), (52, 37715),

Gene: Qobbit_57 Start: 37985, Stop: 37707, Start Num: 28

Candidate Starts for Qobbit_57:

(Start: 28 @37985 has 207 MA's), (46, 37847), (48, 37841), (49, 37838), (50, 37835), (55, 37808), (59, 37754), (61, 37742),

Gene: QuinnKiro_54 Start: 37764, Stop: 37474, Start Num: 28

Candidate Starts for QuinnKiro_54:

(Start: 17 @37794 has 2 MA's), (Start: 28 @37764 has 207 MA's), (50, 37611), (52, 37602), (54, 37587),

Gene: Reba_59 Start: 37537, Stop: 37244, Start Num: 28

Candidate Starts for Reba_59:

(Start: 28 @37537 has 207 MA's), (46, 37396), (50, 37384), (52, 37375),

Gene: Rebeuca_54 Start: 37688, Stop: 37371, Start Num: 28

Candidate Starts for Rebeuca_54:

(Start: 17 @37715 has 2 MA's), (Start: 28 @37688 has 207 MA's), (46, 37547), (50, 37535), (52, 37526), (54, 37511), (68, 37415),

Gene: RedRock_59 Start: 39237, Stop: 38911, Start Num: 28

Candidate Starts for RedRock_59:

(Start: 28 @39237 has 207 MA's), (43, 39117), (46, 39099), (48, 39093), (49, 39090), (50, 39087), (55, 39060), (56, 39033), (61, 38994), (69, 38943), (70, 38937),

Gene: Relief_52 Start: 37377, Stop: 37102, Start Num: 25

Candidate Starts for Relief_52:

(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: ResDef_55 Start: 37764, Stop: 37474, Start Num: 28

Candidate Starts for ResDef_55:

(Start: 17 @37794 has 2 MA's), (Start: 28 @37764 has 207 MA's), (50, 37611), (52, 37602), (54, 37587),

Gene: Retro23_58 Start: 38400, Stop: 38077, Start Num: 28

Candidate Starts for Retro23_58:

(Start: 28 @38400 has 207 MA's), (37, 38334), (43, 38280), (48, 38256), (49, 38253), (50, 38250), (55, 38223), (56, 38196), (61, 38157), (65, 38127),

Gene: RhynO_55 Start: 37487, Stop: 37170, Start Num: 28

Candidate Starts for RhynO_55:

(Start: 17 @37517 has 2 MA's), (Start: 28 @37487 has 207 MA's), (46, 37346), (50, 37334), (52, 37325), (54, 37310), (68, 37214),

Gene: Rockabye_175 Start: 106844, Stop: 107128, Start Num: 33

Candidate Starts for Rockabye_175:

(27, 106814), (33, 106844), (50, 107000), (53, 107015),

Gene: Rockstar_56 Start: 37326, Stop: 36979, Start Num: 11

Candidate Starts for Rockstar_56:

(Start: 11 @37326 has 1 MA's), (Start: 28 @37272 has 207 MA's), (50, 37119), (52, 37110), (54, 37095),

Gene: Romney_53 Start: 37377, Stop: 37102, Start Num: 25

Candidate Starts for Romney_53:

(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: Roosevelt_52 Start: 37382, Stop: 37107, Start Num: 25

Candidate Starts for Roosevelt_52:

(Start: 8 @37472 has 3 MA's), (Start: 25 @37382 has 119 MA's), (50, 37229), (52, 37220),

Gene: Rosa24_52 Start: 37408, Stop: 37133, Start Num: 25

Candidate Starts for Rosa24_52:

(Start: 8 @37498 has 3 MA's), (Start: 25 @37408 has 119 MA's), (50, 37255), (52, 37246),

Gene: Rowdy_58 Start: 37428, Stop: 37081, Start Num: 17

Candidate Starts for Rowdy_58:

(Start: 17 @37428 has 2 MA's), (Start: 28 @37398 has 207 MA's), (46, 37257), (50, 37245), (52, 37236), (54, 37221), (68, 37125),

Gene: Ruin_53 Start: 37373, Stop: 37098, Start Num: 25

Candidate Starts for Ruin_53:

(Start: 8 @37463 has 3 MA's), (Start: 25 @37373 has 119 MA's), (50, 37220), (52, 37211),

Gene: Rummer_58 Start: 38020, Stop: 37727, Start Num: 28

Candidate Starts for Rummer_58:

(7, 38107), (Start: 28 @38020 has 207 MA's), (46, 37879), (50, 37867), (52, 37858), (72, 37741),

Gene: RyeScarlet_58 Start: 38028, Stop: 37750, Start Num: 28

Candidate Starts for RyeScarlet_58:

(Start: 28 @38028 has 207 MA's), (46, 37890), (48, 37884), (49, 37881), (50, 37878), (55, 37851), (59, 37797), (61, 37785),

Gene: SJReid_176 Start: 105039, Stop: 105353, Start Num: 27

Candidate Starts for SJReid_176:

(27, 105039), (33, 105069), (50, 105225), (57, 105279), (66, 105336),

Gene: Sabertooth_53 Start: 37382, Stop: 37107, Start Num: 25

Candidate Starts for Sabertooth_53:

(Start: 8 @37472 has 3 MA's), (Start: 25 @37382 has 119 MA's), (50, 37229), (52, 37220),

Gene: Sabia_59 Start: 38001, Stop: 37708, Start Num: 28

Candidate Starts for Sabia_59:

(7, 38088), (Start: 28 @38001 has 207 MA's), (46, 37860), (50, 37848), (52, 37839), (72, 37722),

Gene: Sabinator_58 Start: 37991, Stop: 37698, Start Num: 28

Candidate Starts for Sabinator_58:

(7, 38078), (Start: 28 @37991 has 207 MA's), (46, 37850), (50, 37838), (52, 37829), (72, 37712),

Gene: Sachima_54 Start: 37938, Stop: 37660, Start Num: 28

Candidate Starts for Sachima_54:

(Start: 28 @37938 has 207 MA's), (46, 37800), (48, 37794), (49, 37791), (50, 37788), (55, 37761), (59, 37707), (61, 37695),

Gene: SaturnRing_57 Start: 37811, Stop: 37518, Start Num: 28

Candidate Starts for SaturnRing_57:

(Start: 17 @37841 has 2 MA's), (Start: 28 @37811 has 207 MA's), (38, 37715), (50, 37658), (52, 37649), (54, 37634), (72, 37532),

Gene: Scamp_53 Start: 37382, Stop: 37107, Start Num: 25

Candidate Starts for Scamp_53:

(Start: 8 @37472 has 3 MA's), (Start: 25 @37382 has 119 MA's), (50, 37229), (52, 37220),

Gene: Scherzo_57 Start: 38242, Stop: 37964, Start Num: 28

Candidate Starts for Scherzo_57:

(Start: 28 @38242 has 207 MA's), (46, 38104), (48, 38098), (49, 38095), (50, 38092), (55, 38065), (59, 38011), (61, 37999),

Gene: Scout_56 Start: 36959, Stop: 36666, Start Num: 28

Candidate Starts for Scout_56:

(Start: 28 @36959 has 207 MA's), (50, 36806), (52, 36797), (54, 36782),

Gene: SenorClean_51 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for SenorClean_51:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Severus_52 Start: 36538, Stop: 36248, Start Num: 28

Candidate Starts for Severus_52:

(Start: 28 @36538 has 207 MA's), (46, 36397), (50, 36385), (52, 36376), (54, 36361),

Gene: Shaka_53 Start: 37377, Stop: 37102, Start Num: 25

Candidate Starts for Shaka_53:

(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: Shapes_58 Start: 37428, Stop: 37081, Start Num: 17

Candidate Starts for Shapes_58:

(Start: 17 @37428 has 2 MA's), (Start: 28 @37398 has 207 MA's), (46, 37257), (50, 37245), (52, 37236), (54, 37221), (68, 37125),

Gene: SheldonCooper_55 Start: 37862, Stop: 37542, Start Num: 13

Candidate Starts for SheldonCooper_55:

(Start: 13 @37862 has 2 MA's), (22, 37823), (Start: 25 @37817 has 119 MA's), (50, 37664), (52, 37655),

Gene: Shygu2_52 Start: 37381, Stop: 37082, Start Num: 26

Candidate Starts for Shygu2_52:

(14, 37426), (15, 37423), (Start: 26 @37381 has 16 MA's), (50, 37204), (52, 37195),

Gene: Skipitt_52 Start: 37374, Stop: 37099, Start Num: 25

Candidate Starts for Skipitt_52:

(Start: 8 @37464 has 3 MA's), (Start: 25 @37374 has 119 MA's), (50, 37221), (52, 37212),

Gene: Sknot_59 Start: 38048, Stop: 37731, Start Num: 28

Candidate Starts for Sknot_59:

(Start: 28 @38048 has 207 MA's), (46, 37913), (48, 37907), (49, 37904), (50, 37901), (55, 37874), (56, 37847), (61, 37808), (69, 37757),

Gene: Smeagan_60 Start: 38716, Stop: 38390, Start Num: 28

Candidate Starts for Smeagan_60:

(Start: 28 @38716 has 207 MA's), (46, 38578), (48, 38572), (49, 38569), (50, 38566), (55, 38539), (56, 38512), (61, 38473), (65, 38443),

Gene: Snickers_59 Start: 37966, Stop: 37673, Start Num: 28

Candidate Starts for Snickers_59:

(7, 38053), (Start: 28 @37966 has 207 MA's), (46, 37825), (50, 37813), (52, 37804), (72, 37687),

Gene: SoYo_59 Start: 37904, Stop: 37611, Start Num: 28

Candidate Starts for SoYo_59:

(7, 37991), (Start: 28 @37904 has 207 MA's), (46, 37763), (50, 37751), (52, 37742), (72, 37625),

Gene: SoilDragon_59 Start: 37440, Stop: 37147, Start Num: 28

Candidate Starts for SoilDragon_59:

(7, 37527), (Start: 28 @37440 has 207 MA's), (50, 37287), (52, 37278), (72, 37161),

Gene: Soshari_61 Start: 38016, Stop: 37723, Start Num: 28

Candidate Starts for Soshari_61:

(7, 38103), (Start: 28 @38016 has 207 MA's), (46, 37875), (50, 37863), (52, 37854), (72, 37737),

Gene: Sparxx_54 Start: 37375, Stop: 37100, Start Num: 25

Candidate Starts for Sparxx_54:

(Start: 8 @37465 has 3 MA's), (Start: 25 @37375 has 119 MA's), (50, 37222), (52, 37213),

Gene: Spike509_59 Start: 38017, Stop: 37724, Start Num: 28

Candidate Starts for Spike509_59:

(7, 38104), (Start: 28 @38017 has 207 MA's), (46, 37876), (50, 37864), (52, 37855), (72, 37738),

Gene: Spino_52 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for Spino_52:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Spouty_57 Start: 38022, Stop: 37744, Start Num: 28

Candidate Starts for Spouty_57:

(Start: 28 @38022 has 207 MA's), (46, 37884), (48, 37878), (49, 37875), (50, 37872), (55, 37845), (59, 37791), (61, 37779),

Gene: Stagni_59 Start: 37995, Stop: 37702, Start Num: 28

Candidate Starts for Stagni_59:

(7, 38082), (Start: 28 @37995 has 207 MA's), (46, 37854), (50, 37842), (52, 37833), (72, 37716),

Gene: Stasia_52 Start: 37257, Stop: 36985, Start Num: 26

Candidate Starts for Stasia_52:

(14, 37302), (15, 37299), (Start: 26 @37257 has 16 MA's), (50, 37104), (52, 37095), (54, 37080),

Gene: StepMih_59 Start: 37986, Stop: 37693, Start Num: 28

Candidate Starts for StepMih_59:

(7, 38073), (Start: 28 @37986 has 207 MA's), (46, 37845), (50, 37833), (52, 37824), (72, 37707),

Gene: Stink_52 Start: 37107, Stop: 36832, Start Num: 25

Candidate Starts for Stink_52:

(Start: 25 @37107 has 119 MA's), (50, 36954), (51, 36948), (52, 36945),

Gene: Swirley_51 Start: 37021, Stop: 36671, Start Num: 24

Candidate Starts for Swirley_51:

(16, 37051), (Start: 24 @37021 has 2 MA's), (39, 36922), (46, 36880), (47, 36877), (50, 36868), (77, 36685),

Gene: TNguyen7_57 Start: 37777, Stop: 37484, Start Num: 28

Candidate Starts for TNguyen7_57:

(Start: 17 @37807 has 2 MA's), (Start: 28 @37777 has 207 MA's), (38, 37681), (50, 37624), (52, 37615), (54, 37600), (72, 37498),

Gene: Taquarus_53 Start: 37383, Stop: 37108, Start Num: 25

Candidate Starts for Taquarus_53:

(Start: 8 @37473 has 3 MA's), (Start: 25 @37383 has 119 MA's), (50, 37230), (52, 37221),

Gene: TarsusIV_56 Start: 38026, Stop: 37703, Start Num: 28

Candidate Starts for TarsusIV_56:

(Start: 28 @38026 has 207 MA's), (46, 37888), (48, 37882), (49, 37879), (50, 37876), (55, 37849), (56, 37822), (61, 37783),

Gene: Tarynearal_47 Start: 36463, Stop: 36113, Start Num: 24

Candidate Starts for Tarynearal_47:

(16, 36493), (Start: 24 @36463 has 2 MA's), (39, 36364), (46, 36322), (47, 36319), (50, 36310), (77, 36127),

Gene: Taurus_60 Start: 37992, Stop: 37699, Start Num: 28

Candidate Starts for Taurus_60:

(7, 38079), (Start: 28 @37992 has 207 MA's), (46, 37851), (50, 37839), (52, 37830), (72, 37713),

Gene: Terrific_60 Start: 38402, Stop: 38085, Start Num: 28

Candidate Starts for Terrific_60:

(Start: 28 @38402 has 207 MA's), (46, 38267), (48, 38261), (49, 38258), (50, 38255), (55, 38228), (56, 38201), (61, 38162), (69, 38111),

Gene: Texage_54 Start: 37765, Stop: 37475, Start Num: 28

Candidate Starts for Texage_54:

(Start: 17 @37795 has 2 MA's), (Start: 28 @37765 has 207 MA's), (50, 37612), (52, 37603), (54, 37588),

Gene: Thanksgivukkah_52 Start: 37378, Stop: 37103, Start Num: 25

Candidate Starts for Thanksgivukkah_52:

(Start: 8 @37468 has 3 MA's), (Start: 25 @37378 has 119 MA's), (50, 37225), (52, 37216),

Gene: Tiffany_59 Start: 37878, Stop: 37585, Start Num: 28

Candidate Starts for Tiffany_59:

(7, 37965), (Start: 28 @37878 has 207 MA's), (46, 37737), (50, 37725), (52, 37716), (72, 37599),

Gene: TinaFeyge_53 Start: 37465, Stop: 37100, Start Num: 8

Candidate Starts for TinaFeyge_53:

(Start: 8 @37465 has 3 MA's), (Start: 25 @37375 has 119 MA's), (50, 37222), (52, 37213),

Gene: TinyPebbles_58 Start: 38022, Stop: 37729, Start Num: 28

Candidate Starts for TinyPebbles_58:

(7, 38109), (Start: 28 @38022 has 207 MA's), (46, 37881), (50, 37869), (52, 37860), (72, 37743),

Gene: Tinybot_52 Start: 37407, Stop: 37132, Start Num: 25

Candidate Starts for Tinybot_52:

(Start: 8 @37497 has 3 MA's), (Start: 25 @37407 has 119 MA's), (50, 37254), (52, 37245),

Gene: TiroTheta9_53 Start: 37374, Stop: 37099, Start Num: 25

Candidate Starts for TiroTheta9_53:

(Start: 8 @37464 has 3 MA's), (Start: 25 @37374 has 119 MA's), (50, 37221), (52, 37212),

Gene: Todacoro_55 Start: 37764, Stop: 37474, Start Num: 28

Candidate Starts for Todacoro_55:

(Start: 17 @37794 has 2 MA's), (Start: 28 @37764 has 207 MA's), (50, 37611), (52, 37602), (54, 37587),

Gene: Topanga_52 Start: 37329, Stop: 37012, Start Num: 28

Candidate Starts for Topanga_52:

(Start: 17 @37359 has 2 MA's), (Start: 28 @37329 has 207 MA's), (46, 37188), (50, 37176), (52, 37167), (54, 37152), (68, 37056),

Gene: Trike_52 Start: 36547, Stop: 36257, Start Num: 28

Candidate Starts for Trike_52:

(Start: 28 @36547 has 207 MA's), (46, 36406), (50, 36394), (52, 36385), (54, 36370),

Gene: Tristan_55 Start: 39078, Stop: 38758, Start Num: 28

Candidate Starts for Tristan_55:

(Start: 28 @39078 has 207 MA's), (46, 38943), (48, 38937), (49, 38934), (50, 38931), (55, 38904), (56, 38877), (61, 38838), (65, 38808), (69, 38787),

Gene: TroyPia_54 Start: 37378, Stop: 37103, Start Num: 25

Candidate Starts for TroyPia_54:

(Start: 8 @37468 has 3 MA's), (Start: 25 @37378 has 119 MA's), (50, 37225), (52, 37216),

Gene: Tubs_57 Start: 37956, Stop: 37678, Start Num: 28

Candidate Starts for Tubs_57:

(Start: 28 @37956 has 207 MA's), (46, 37818), (48, 37812), (49, 37809), (50, 37806), (55, 37779), (59, 37725), (61, 37713),

Gene: Turbido_58 Start: 38450, Stop: 38124, Start Num: 28

Candidate Starts for Turbido_58:

(Start: 28 @38450 has 207 MA's), (46, 38312), (48, 38306), (49, 38303), (50, 38300), (55, 38273), (56, 38246), (61, 38207), (65, 38177),

Gene: Twigg_49 Start: 36660, Stop: 36310, Start Num: 24

Candidate Starts for Twigg_49:

(4, 36825), (5, 36807), (16, 36690), (Start: 24 @36660 has 2 MA's), (39, 36561), (46, 36519), (47, 36516), (50, 36507), (77, 36324),

Gene: Twister_52 Start: 37249, Stop: 36932, Start Num: 28

Candidate Starts for Twister_52:

(Start: 17 @37276 has 2 MA's), (Start: 28 @37249 has 207 MA's), (46, 37108), (50, 37096), (52, 37087), (54, 37072), (68, 36976),

Gene: TygerBlood_53 Start: 37380, Stop: 37105, Start Num: 25

Candidate Starts for TygerBlood_53:

(Start: 8 @37470 has 3 MA's), (Start: 25 @37380 has 119 MA's), (50, 37227), (52, 37218),

Gene: Ugenie5_54 Start: 38241, Stop: 37963, Start Num: 28

Candidate Starts for Ugenie5_54:

(Start: 28 @38241 has 207 MA's), (46, 38103), (48, 38097), (49, 38094), (50, 38091), (55, 38064), (59, 38010), (61, 37998),

Gene: Ulysses_52 Start: 37057, Stop: 36782, Start Num: 25

Candidate Starts for Ulysses_52:

(Start: 8 @37147 has 3 MA's), (Start: 25 @37057 has 119 MA's), (50, 36904), (52, 36895),

Gene: Updawg_58 Start: 38292, Stop: 37972, Start Num: 28

Candidate Starts for Updawg_58:

(Start: 28 @38292 has 207 MA's), (37, 38226), (48, 38148), (49, 38145), (50, 38142), (55, 38115), (56, 38088), (61, 38049), (69, 37998),

Gene: VA6_58 Start: 38513, Stop: 38187, Start Num: 28

Candidate Starts for VA6_58:

(Start: 28 @38513 has 207 MA's), (46, 38372), (48, 38366), (49, 38363), (50, 38360), (55, 38333), (56, 38306), (61, 38267),

Gene: Veracruz_54 Start: 37764, Stop: 37474, Start Num: 28

Candidate Starts for Veracruz_54:

(Start: 17 @37794 has 2 MA's), (Start: 28 @37764 has 207 MA's), (50, 37611), (52, 37602), (54, 37587),

Gene: Vic9_00055 Start: 51306, Stop: 50992, Start Num: 18

Candidate Starts for Vic9_00055:

(Start: 18 @51306 has 3 MA's), (32, 51258), (41, 51159), (46, 51126), (53, 51099), (62, 51021), (63, 51012),

Gene: Vix_59 Start: 38075, Stop: 37782, Start Num: 28

Candidate Starts for Vix_59:

(7, 38162), (Start: 28 @38075 has 207 MA's), (46, 37934), (50, 37922), (52, 37913), (72, 37796),

Gene: WalterMcMickey_52 Start: 37249, Stop: 36932, Start Num: 28

Candidate Starts for WalterMcMickey_52:

(Start: 17 @37276 has 2 MA's), (Start: 28 @37249 has 207 MA's), (46, 37108), (50, 37096), (52, 37087), (54, 37072), (68, 36976),

Gene: Wander_53 Start: 37377, Stop: 37102, Start Num: 25

Candidate Starts for Wander_53:

(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: Watson_59 Start: 37984, Stop: 37691, Start Num: 28

Candidate Starts for Watson_59:

(7, 38071), (Start: 28 @37984 has 207 MA's), (46, 37843), (50, 37831), (52, 37822), (72, 37705),

Gene: Whabigail7_58 Start: 38435, Stop: 38109, Start Num: 28

Candidate Starts for Whabigail7_58:

(Start: 28 @38435 has 207 MA's), (46, 38297), (48, 38291), (49, 38288), (50, 38285), (55, 38258), (56, 38231), (61, 38192), (65, 38162),

Gene: WideWale_58 Start: 38292, Stop: 37972, Start Num: 28

Candidate Starts for WideWale_58:

(Start: 28 @38292 has 207 MA's), (37, 38226), (48, 38148), (49, 38145), (50, 38142), (55, 38115), (56, 38088), (61, 38049), (69, 37998),

Gene: Wilbur_53 Start: 37377, Stop: 37102, Start Num: 25

Candidate Starts for Wilbur_53:

(Start: 8 @37467 has 3 MA's), (Start: 25 @37377 has 119 MA's), (50, 37224), (52, 37215),

Gene: Wile_52 Start: 37363, Stop: 37085, Start Num: 26

Candidate Starts for Wile_52:

(14, 37408), (15, 37405), (Start: 26 @37363 has 16 MA's), (50, 37210), (52, 37201), (54, 37186),

Gene: Wizard007_53 Start: 37385, Stop: 37110, Start Num: 25

Candidate Starts for Wizard007_53:

(Start: 8 @37475 has 3 MA's), (Start: 25 @37385 has 119 MA's), (50, 37232), (52, 37223),

Gene: Wooldri_61 Start: 37904, Stop: 37611, Start Num: 28

Candidate Starts for Wooldri_61:

(7, 37991), (Start: 28 @37904 has 207 MA's), (46, 37763), (50, 37751), (52, 37742), (72, 37625),

Gene: Xena_51 Start: 37329, Stop: 37051, Start Num: 26

Candidate Starts for Xena_51:

(14, 37374), (15, 37371), (Start: 26 @37329 has 16 MA's), (50, 37176), (52, 37167), (54, 37152),

Gene: XianYue_56 Start: 37791, Stop: 37468, Start Num: 28

Candidate Starts for XianYue_56:

(Start: 28 @37791 has 207 MA's), (48, 37647), (49, 37644), (50, 37641), (55, 37614), (56, 37587), (61, 37548), (65, 37518),

Gene: YoSam321_53 Start: 37374, Stop: 37099, Start Num: 25

Candidate Starts for YoSam321_53:

(Start: 8 @37464 has 3 MA's), (Start: 25 @37374 has 119 MA's), (50, 37221), (52, 37212),

Gene: Zetzy_58 Start: 37555, Stop: 37262, Start Num: 28

Candidate Starts for Zetzy_58:

(7, 37642), (Start: 28 @37555 has 207 MA's), (46, 37414), (50, 37402), (52, 37393), (72, 37276),