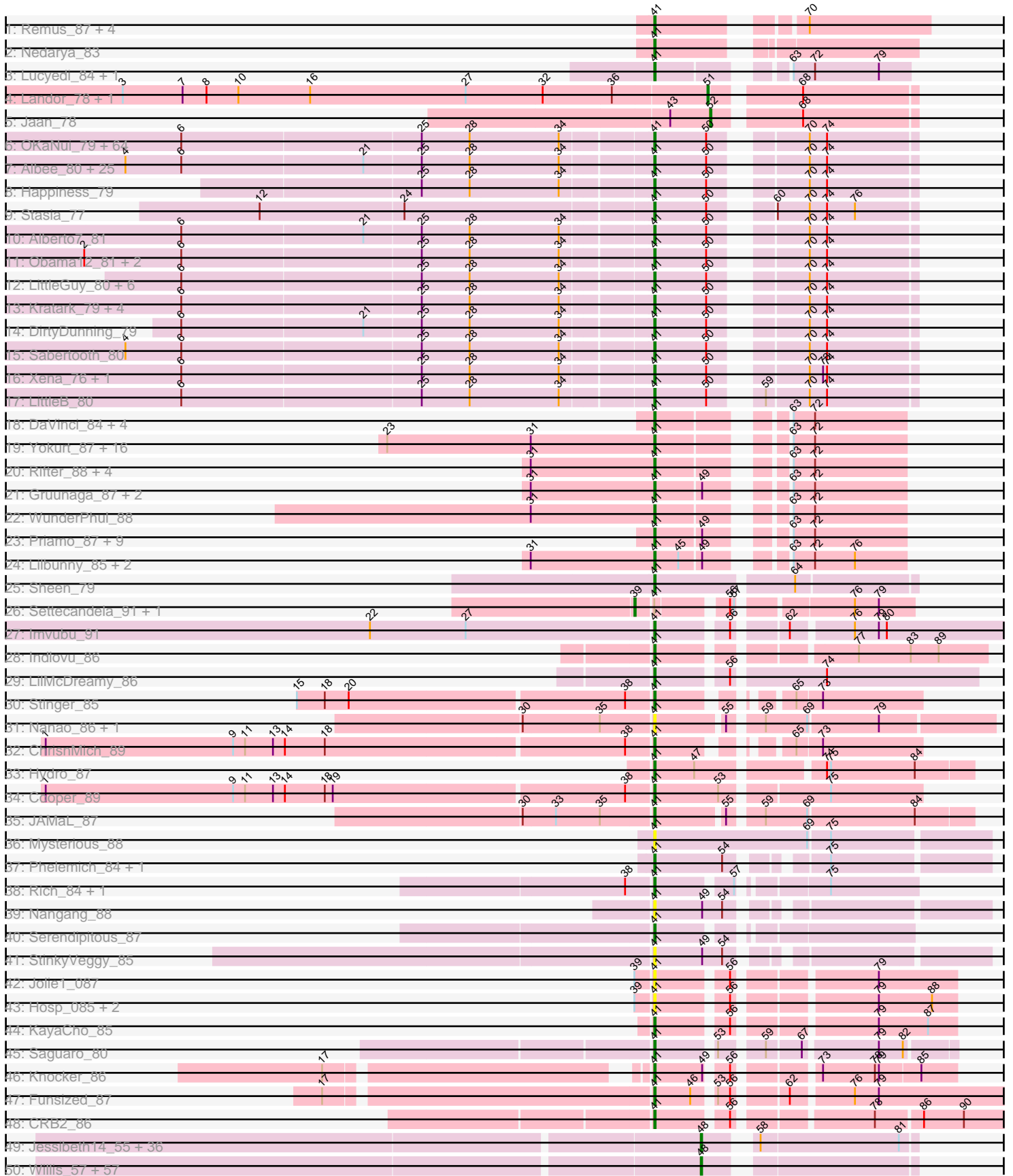


Pham 163264



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 163264 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163264 has 408 members, 35 are drafts.

Phages represented in each track:

- Track 1 : Remus_87, Soups_86, Epsocamisio_84, Rosalind_85, Strosahl_87
- Track 2 : Nedarya_83
- Track 3 : Lucyedi_84, EagleEye_85
- Track 4 : Landor_78, Bactobuster_72
- Track 5 : Jaan_78
- Track 6 : OKaNui_79, Eurydice_81, JoongJeon_79, Burger_78, LochMonster_81, Houdini22_79, Chaph_80, Mazhar510_80, Caelakin_78, Melvin_82, Bombshell_80, Millski_79, Relief_79, Wilbur_80, Nemo27_79, Eapen_80, Medusa_79, Romney_79, Phighter1804_80, Eris_79, CentreCat_80, Nebs_81, Lorenzo_80, SheldonCooper_80, Cerulean_82, Bruiser_79, Thanksgivukkah_79, Ulysses_79, Scamp_80, Flux_81, Skipitt_79, Kampy_79, Dhanush_80, ChampagnePapi_83, Kyee_80, Palestino_79, Spino_79, PeterPeter_80, Ruin_80, Cocoaberry_80, TygerBlood_80, Pipcraft_76, Avle17_80, Phacado_80, Kremtemulon_74, MeeZee_79, Ohfah_81, Maverick_79, Eagle_79, Maxo_82, Cintron_80, NorthStar_77, Gadost_80, Clarenza_79, Kingmustik0402_80, KFPoly_79, BangNhom_77, ICleared_79, Wander_80, TroyPia_81, Arturo_77, Koreni_79, NotAPhaseMom_79, Iracema64_80, Funston_79
- Track 7 : Albee_80, Pumbaa_80, Connomayer_80, TinaFeyge_78, TiroTheta9_79, Jaykayelowell_77, Polymorphads_81, Florean_80, Broseidon_80, Holli_79, LappelDuVide_76, Baby16_80, BubbleTrouble_79, Sparxx_81, Roosevelt_78, JetBlade_81, Abdiel_79, Citius_80, Blackmoor_79, Deano_77, HamSlice_76, Lunsford_80, Morrow_82, Bartimeaus_80, Shaka_78, Annyong_79
- Track 8 : Happiness_79
- Track 9 : Stasia_77
- Track 10 : Alberto7_81
- Track 11 : Obama12_81, Tinybot_79, LHTSCC_82
- Track 12 : LittleGuy_80, Eros_80, Phontbonne_80, Nyxis_79, Taquarus_79, Commander_78, Peaches_78
- Track 13 : Kratak_79, Iceman_78, Shygu2_78, YoSam321_80, Lemur_80
- Track 14 : DirtyDunning_79
- Track 15 : Sabertooth_80
- Track 16 : Xena_76, Datway_77
- Track 17 : LittleB_80
- Track 18 : DaVinci_84, McFly_86, Chartreuse_84, Dorothea_83, Kipper29_86
- Track 19 : Yokurt_87, Neeharika16_85, Koko_89, Cookiedough_86, Helmet_89, Pmask_85, SuperAwesome_86, Jordennis_84, GreedyLawyer_79, Blue7_89, Zaka_88, Indra_91, Newrala_85, BABullseye_79, JewelBug_78, Garak_89, Wiks_87

- Track 20 : Rifter_88, Artemis2UCLA_87, CloudWang3_88, Hexamo_87, Roksolana_88
- Track 21 : Gruunaga_87, Hammer_88, Gladiator_84
- Track 22 : WunderPhul_88
- Track 23 : Priamo_87, Kazan_87, Zulu_89, EricB_84, Candra_84, SuperCallie99_82, VohminGhazi_86, Hoot_81, Isiphiwo_82, SmellyB_86
- Track 24 : Lilbunny_85, Tucker_88, ToneTone_85
- Track 25 : Sheen_79
- Track 26 : Settecandela_91, Phrappuccino_91
- Track 27 : Imvubu_91
- Track 28 : Indlovu_86
- Track 29 : LilMcDreamy_86
- Track 30 : Stinger_85
- Track 31 : Nanao_86, Poster_85
- Track 32 : ChrisnMich_89
- Track 33 : Hydro_87
- Track 34 : Cooper_89
- Track 35 : JAMaL_87
- Track 36 : Mysterious_88
- Track 37 : Phelemich_84, Reprobate_86
- Track 38 : Rich_84, Bae_85
- Track 39 : Nangang_88
- Track 40 : Serendipitous_87
- Track 41 : StinkyVeggy_85
- Track 42 : Jolie1_087
- Track 43 : Hosp_085, 39HC_090, 40BC_090
- Track 44 : KayaCho_85
- Track 45 : Saguaro_80
- Track 46 : Knocker_86
- Track 47 : Funsized_87
- Track 48 : CRB2_86
- Track 49 : Jessibeth14_55, BadAgartude_56, QBert_51, Janiyra_58, ChickenPhender_52, LinStu_58, Dietrick_50, Cali_54, Nidhogg_57, Trinitium_52, BigCity_62, Iota_51, MoMoMixon_57, CharlieB_54, LRRHood_53, ScottMcG_55, Shelob_59, Turret_51, Grasshills_62, Koguma_53, IkeLoa_51, Catera_55, ChaylaJr_52, Ronan_51, Izajani_58, Shaqnato_51, Grungle_48, Lukilu_50, Phox_55, Sebata_59, BeanWater_50, JulietS_51, ET08_48, Rahel_57, EggyFarm_62, NoodleTree_57, Yassified_54
- Track 50 : Willis_57, NedWong_58, Mikro_55, ZygoTaiga_57, ErnieJ_56, Fludd_56, Lee7_55, Flabslab_53, Cactojaque_51, Loanshark_57, Rizal_55, Salacia_59, FoxtrotP1_57, StubbySaigey_56, BananaFence_58, Daffodil_59, Ewok_57, Bipolarisk_56, Pinkcreek_49, Darko_56, Bread_57, Kboogie_57, Naval22_63, Ava3_58, Astraea_58, Delilah_57, McWolfish_55, PurduePete_56, FrayBell_63, Erdmann_58, Shrimp_57, TinyTim_57, Khaleesi_56, Napoleon13_54, YemiJoy2021_57, Zalkecks_58, Wally_55, Norm_57, Basquiat_52, Maby2021_57, EmToTheThree_60, Megamind_56, LordLeafolot_62, ParkTD_56, Blackbrain_51, Gizmo_58, Delylah_57, MikeLiesIn_57, SrishMeg2525_56, Spud_57, Stubby_52, Yucca_57, Zeenon_59, Issimir_56, FudgeTart_58, Charge21_52, Pleione_59, Bonray_57
- Track 51 : Phlegm_58, Gamgam_56, CindyLou_57, Audrick_58, Patter_56, InigoMontoya_57, Derek_57, Capablanca_58, Atlantean_55, Naija_55, ValleyTerrace_56, Amataga_56, Littleton_56, Pivoine_55, Latch_56, YoungMoneyMata_56, SilverDipper_57, JPickles_54, Babyland_55, JustHall_52,

Jemmno_56, Momo_55, Quasimodo_56, SmallFry_56, McGee_55, Ghost_56, Ading_56, Tyke_58, Ngannou_51

- Track 52 : Cane17_46, Colt_48, Blubba_46
- Track 53 : Pier_59, Bangla1971_57, Adlitam_56, Bigswole_63, Gabriel_58, Morizzled23_59, Specks_62, Essence_55, DTDevon_57, Concombre_62, LifeSavor_56, DirtMonster_53, Matsumoto_55, Sauce_58, BackyardAgain_54, RoMag_51, Halldule_51, Burrough_57, Caravan_53, ShiaLabeouf_56, ArcherS7_56, Sprinklers_53, StephanieG_57, Drazdys_56, Jaygup_56, EasyJones_59, Chomp_54, Bxz1_57, Breeniome_58, Pio_61, Tortoise16_54, JayJay_60, Shnickers_56, Roots515_56, Nappy_59, Jedediah_57, Asterius_54, Melpomini_52, Guwapp_55, InterFolia_65, Dandelion_62, LolaVinca_60, Phusco_56, Teardrop_56, NuevoMundo_62, Spec_54, EmmaElysia_55
- Track 54 : Shifa_50, HyRo_52
- Track 55 : DrPhinkDaddy_56, Kamryn_56
- Track 56 : Alice_51
- Track 57 : l3_59, Mangeria_60
- Track 58 : Rabinovish_56
- Track 59 : Tonenili_66
- Track 60 : Phabba_14
- Track 61 : Lilbeanie_10
- Track 62 : Stormageddon_149
- Track 63 : RedWattleHog_148
- Track 64 : Dulcita_145, Skinny_151, LilhomieP_144, Diminimus_145, PegLeg_148, Glaske16_147, Bongo_142
- Track 65 : Bricole_150, SlimJimmy_145, Auspice_148, IPHane7_145, TyDawg_141
- Track 66 : Jeon_82, Taptic_88, Cepens_87, GodPhather_87
- Track 67 : Argie_88, Megabear_85, D12_85, PR_86
- Track 68 : VanLee_156
- Track 69 : Finch_206

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

The start number called the most often in the published annotations is 41, it was called in 199 of the 373 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 39HC_090, 40BC_090, Abdiel_79, Albee_80, Alberto7_81, Annyong_79, Argie_88, Artemis2UCLA_87, Arturo_77, Auspice_148, Avle17_80, BABullseye_79, Baby16_80, Bae_85, BangNhom_77, Bartimeaus_80, Blackmoor_79, Blue7_89, Bombshell_80, Bongo_142, Bricole_150, Broseidon_80, Bruiser_79, BubbleTrouble_79, Burger_78, CRB2_86, Caelakin_78, Candra_84, CentreCat_80, Cepens_87, Cerulean_82, ChampagnePapi_83, Chaph_80, Chartreuse_84, ChrisnMich_89, Cintron_80, Citius_80, Clarenza_79, CloudWang3_88, Cocoaberry_80, Commander_78, Connomayer_80, Cookiedough_86, Cooper_89, D12_85, DaVinci_84, Datway_77, Deano_77, Dhanush_80, Diminimus_145, DirtyDunning_79, Dorothea_83, Dulcita_145, EagleEye_85, Eagle_79, Eapen_80, Epsocamisio_84, EricB_84, Eris_79, Eros_80, Eurydice_81, Finch_206, Floean_80, Flux_81, Funsized_87, Funston_79, Gadost_80, Garak_89, Gladiator_84, Glaske16_147, GodPhather_87, GreedyLawyer_79, Gruunaga_87, HamSlice_76, Hammer_88, Happiness_79, Helmet_89, Hexamo_87, Holli_79, Hoot_81, Hosp_085,

Houdini22_79, Hydro_87, ICleared_79, IPhane7_145, Iceman_78, Imvubu_91, Indlovu_86, Indra_91, Iracema64_80, Isiphiwo_82, JAMaL_87, Jaykayelowell_77, Jeon_82, JetBlade_81, JewelBug_78, Jolie1_087, JoongJeon_79, Jordennis_84, KFPoly_79, Kamy_79, KayaCho_85, Kazan_87, Kingmustik0402_80, Kipper29_86, Knocker_86, Koko_89, Koreni_79, Kratark_79, Kremtemulon_74, Kye_80, LHTSCC_82, LappelDuVide_76, Lemur_80, LilMcDreamy_86, Lilbeanie_10, Lilbunny_85, LilhomieP_144, LittleB_80, LittleGuy_80, LochMonster_81, Lorenzo_80, Lucyedi_84, Lunsford_80, Maverick_79, Maxo_82, Mazhar510_80, McFly_86, Medusa_79, MeeZee_79, Megabear_85, Melvin_82, Millski_79, Morrow_82, Mysterious_88, Nanao_86, Nangang_88, Nebs_81, Nedarya_83, Neeharika16_85, Nemo27_79, Newrala_85, NorthStar_77, NotAPhaseMom_79, Nyxis_79, OKaNui_79, Obama12_81, Ohfah_81, PR_86, Palestino_79, Peaches_78, PegLeg_148, PeterPeter_80, Phacado_80, Phelemich_84, Phighter1804_80, Phontbonne_80, Pipcraft_76, Pmask_85, Polymorphads_81, Poster_85, Priamo_87, Pumbaa_80, RedWattleHog_148, Relief_79, Remus_87, Reprobate_86, Rich_84, Rifter_88, Roksolana_88, Romney_79, Roosevelt_78, Rosalind_85, Ruin_80, Sabertooth_80, Saguaro_80, Scamp_80, Serendipitous_87, Shaka_78, Sheen_79, SheldonCooper_80, Shygu2_78, Skinny_151, Skipitt_79, SlimJimmy_145, SmellyB_86, Soups_86, Sparxx_81, Spino_79, Stasia_77, Stinger_85, StinkyVeggy_85, Strosahl_87, SuperAwesome_86, SuperCallie99_82, Taptic_88, Taquarus_79, Thanksgivukkah_79, TinaFeyge_78, Tinybot_79, TiroTheta9_79, ToneTone_85, TroyPia_81, Tucker_88, TyDawg_141, TygerBlood_80, Ulysses_79, VohminGhazi_86, Wander_80, Wiks_87, Wilbur_80, WunderPhul_88, Xena_76, YoSam321_80, Yokurt_87, Zaka_88, Zulu_89,

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

- Phrappuccino_91, Settecandela_91, Stormageddon_149,

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

- Ading_56, Adlitam_56, Alice_51, Amataga_56, ArcherS7_56, Asterius_54, Astraea_58, Atlantean_55, Audrick_58, Ava3_58, Babyland_55, BackyardAgain_54, Bactobuster_72, BadAgartude_56, BananaFence_58, Bangla1971_57, Basquiat_52, BeanWater_50, BigCity_62, Bigswole_63, Bipolarisk_56, Blackbrain_51, Blubba_46, Bonray_57, Bread_57, Breeniome_58, Burrough_57, Bxz1_57, Cactojaque_51, Cali_54, Cane17_46, Capablanca_58, Caravan_53, Catera_55, Chargie21_52, CharlieB_54, ChaylaJr_52, ChickenPhender_52, Chomp_54, CindyLou_57, Colt_48, Concombre_62, DTDevon_57, Daffodil_59, Dandelion_62, Darko_56, Delilah_57, Delylah_57, Derek_57, Dietrick_50, DirtMonster_53, DrPhinkDaddy_56, Drazdys_56, ET08_48, EasyJones_59, EggyFarm_62, EmToTheThree_60, EmmaElysia_55, Erdmann_58, ErnieJ_56, Essence_55, Ewok_57, Flabslab_53, Fludd_56, FoxtrotP1_57, FrayBell_63, FudgeTart_58, Gabriel_58, Gamgam_56, Ghost_56, Gizmo_58, Grasshills_62, Grungle_48, Guwapp_55, Halldule_51, HyRo_52, I3_59, IkeLoa_51, InigoMontoya_57, InterFolia_65, Iota_51, Issimir_56, Izajani_58, JPickles_54, Jaan_78, Janiyra_58, JayJay_60, Jaygup_56, Jedediah_57, Jemmno_56, Jessibeth14_55, JulietS_51, JustHall_52, Kamryn_56, Kboogie_57, Khaleesi_56, Koguma_53, LRRHood_53, Landor_78, Latch_56, Lee7_55, LifeSavor_56, LinStu_58, Littleton_56, Loanshark_57, LolaVinca_60, LordLeafolot_62, Lukilu_50, Maby2021_57, Mangeria_60, Matsumoto_55, McGee_55, McWolfish_55, Megamind_56, Melpomini_52, MikeLiesIn_57, Mikro_55, MoMoMixon_57, Momo_55, Morizzled23_59, Naija_55, Napoleon13_54, Nappy_59, Naval22_63, NedWong_58, Ngannou_51, Nidhogg_57, NoodleTree_57, Norm_57, NuevoMundo_62, ParkTD_56, Patter_56, Phabba_14, Phlegm_58, Phox_55, Phusco_56, Pier_59, Pinkcreek_49, Pio_61, Pivoine_55, Pleione_59,

PurduePete_56, QBert_51, Quasimodo_56, Rabinovish_56, Rahel_57, Rizal_55, RoMag_51, Ronan_51, Roots515_56, Salacia_59, Sauce_58, ScottMcG_55, Sebata_59, Shaqnato_51, Shelob_59, ShiaLabeouf_56, Shifa_50, Shnickers_56, Shrimp_57, SilverDipper_57, SmallFry_56, Spec_54, Specks_62, Sprinklers_53, Spud_57, SrishMeg2525_56, StephanieG_57, StubbySaigey_56, Stubby_52, Teardrop_56, TinyTim_57, Tonenili_66, Tortoise16_54, Trinitium_52, Turret_51, Tyke_58, ValleyTerrace_56, VanLee_156, Wally_55, Willis_57, Yassified_54, YemiJoy2021_57, YoungMoneyMata_56, Yucca_57, Zalkecks_58, Zeenon_59, ZygoTaiga_57,

Summary by start number:

Start 39:

- Found in 6 of 408 (1.5%) of genes in pham
- Manual Annotations of this start: 2 of 373
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Phrappuccino_91 (AA), Settecandela_91 (AA),

Start 40:

- Found in 3 of 408 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 373
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Stormageddon_149 (DX),

Start 41:

- Found in 220 of 408 (53.9%) of genes in pham
- Manual Annotations of this start: 199 of 373
- Called 98.6% of time when present
- Phage (with cluster) where this start called: 39HC_090 (B6), 40BC_090 (B6), Abdiel_79 (A4), Albee_80 (A4), Alberto7_81 (A4), Annyong_79 (A4), Argie_88 (W), Artemis2UCLA_87 (A6), Arturo_77 (A4), Auspice_148 (M1), Avle17_80 (A4), BABullseye_79 (A6), Baby16_80 (A4), Bae_85 (B5), BangNhom_77 (A4), Bartimeaus_80 (A4), Blackmoor_79 (A4), Blue7_89 (A6), Bombshell_80 (A4), Bongo_142 (M1), Bricole_150 (M1), Broseidon_80 (A4), Bruiser_79 (A4), BubbleTrouble_79 (A4), Burger_78 (A4), CRB2_86 (B9), Caelakin_78 (A4), Candra_84 (A6), CentreCat_80 (A4), Cepens_87 (W), Cerulean_82 (A4), ChampagnePapi_83 (A4), Chaph_80 (A4), Chartreuse_84 (A6), ChrisnMich_89 (B4), Cintron_80 (A4), Citius_80 (A4), Clarenza_79 (A4), CloudWang3_88 (A6), Cocoaberry_80 (A4), Commander_78 (A4), Connomayer_80 (A4), Cookiedough_86 (A6), Cooper_89 (B4), D12_85 (W), DaVinci_84 (A6), Datway_77 (A4), Deano_77 (A4), Dhanush_80 (A4), Diminimus_145 (M1), DirtyDunning_79 (A4), Dorothea_83 (A6), Dulcita_145 (M1), EagleEye_85 (A16), Eagle_79 (A4), Eapen_80 (A4), Epsocamisio_84 (A15), EricB_84 (A6), Eris_79 (A4), Eros_80 (A4), Eurydice_81 (A4), Finch_206 (singleton), Florean_80 (A4), Flux_81 (A4), Funsized_87 (B9), Funston_79 (A4), Gadost_80 (A4), Garak_89 (A6), Gladiator_84 (A6), Glaske16_147 (M1), GodPhather_87 (W), GreedyLawyer_79 (A6), Gruunaga_87 (A6), HamSlice_76 (A4), Hammer_88 (A6), Happiness_79 (A4), Helmet_89 (A6), Hexamo_87 (A6), Holli_79 (A4), Hoot_81 (A6), Hosp_085 (B6), Houdini22_79 (A4), Hydro_87 (B4), ICleared_79 (A4), IPhone7_145 (M1), Iceman_78 (A4), Imvubu_91 (B10), Indlovu_86 (B11), Indra_91 (A6), Iracema64_80 (A4), Isiphiwo_82 (A6), JAMaL_87 (B4), Jaykayelowell_77 (A4), Jeon_82 (W), JetBlade_81 (A4), JewelBug_78 (A6), Jolie1_087 (B6), JoongJeon_79 (A4), Jordennis_84 (A6), KFPoly_79 (A4), Kampy_79

(A4), KayaCho_85 (B6), Kazan_87 (A6), Kingmustik0402_80 (A4), Kipper29_86 (A6), Knocker_86 (B9), Koko_89 (A6), Koreni_79 (A4), Kratark_79 (A4), Kremtemulon_74 (A4), Kyee_80 (A4), LHTSCC_82 (A4), LappelDuVide_76 (A4), Lemur_80 (A4), LilMcDreamy_86 (B12), Lilbeanie_10 (DE5), Lilbunny_85 (A6), LilhomieP_144 (M1), LittleB_80 (A4), LittleGuy_80 (A4), LochMonster_81 (A4), Lorenzo_80 (A4), Lucyedi_84 (A16), Lunsford_80 (A4), Maverick_79 (A4), Maxo_82 (A4), Mazhar510_80 (A4), McFly_86 (A6), Medusa_79 (A4), MeeZee_79 (A4), Megabear_85 (W), Melvin_82 (A4), Millski_79 (A4), Morrow_82 (A4), Mysterious_88 (B5), Nanao_86 (B4), Nangang_88 (B5), Nebs_81 (A4), Nedarya_83 (A15), Neeharika16_85 (A6), Nemo27_79 (A4), Newrala_85 (A6), NorthStar_77 (A4), NotAPhaseMom_79 (A4), Nyxis_79 (A4), OKaNui_79 (A4), Obama12_81 (A4), Ohfah_81 (A4), PR_86 (W), Palestino_79 (A4), Peaches_78 (A4), PegLeg_148 (M1), PeterPeter_80 (A4), Phacado_80 (A4), Phelemich_84 (B5), Phighter1804_80 (A4), Phontbonne_80 (A4), Pipcraft_76 (A4), Pmask_85 (A6), Polymorphads_81 (A4), Poster_85 (B4), Priamo_87 (A6), Pumbaa_80 (A4), RedWattleHog_148 (DX), Relief_79 (A4), Remus_87 (A15), Reprobate_86 (B5), Rich_84 (B5), Rifter_88 (A6), Roksolana_88 (A6), Romney_79 (A4), Roosevelt_78 (A4), Rosalind_85 (A15), Ruin_80 (A4), Sabertooth_80 (A4), Saguaro_80 (B7), Scamp_80 (A4), Serendipitous_87 (B5), Shaka_78 (A4), Sheen_79 (A7), SheldonCooper_80 (A4), Shygu2_78 (A4), Skinny_151 (M1), Skipitt_79 (A4), SlimJimmy_145 (M1), SmellyB_86 (A6), Soups_86 (A15), Sparxx_81 (A4), Spino_79 (A4), Stasia_77 (A4), Stinger_85 (B4), StinkyVeggy_85 (B5), Strosahl_87 (A15), SuperAwesome_86 (A6), SuperCallie99_82 (A6), Taptic_88 (W), Taquarus_79 (A4), Thanksgivukkah_79 (A4), TinaFeyge_78 (A4), Tinybot_79 (A4), TiroTheta9_79 (A4), ToneTone_85 (A6), TroyPia_81 (A4), Tucker_88 (A6), TyDawg_141 (M1), TygerBlood_80 (A4), Ulysses_79 (A4), VohminGhazi_86 (A6), Wander_80 (A4), Wiks_87 (A6), Wilbur_80 (A4), WunderPhul_88 (A6), Xena_76 (A4), YoSam321_80 (A4), Yokurt_87 (A6), Zaka_88 (A6), Zulu_89 (A6),

Start 42:

- Found in 1 of 408 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 373
- Called 100.0% of time when present
- Phage (with cluster) where this start called: VanLee_156 (singleton),

Start 48:

- Found in 183 of 408 (44.9%) of genes in pham
- Manual Annotations of this start: 167 of 373
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ading_56 (C1), Adlitam_56 (C1), Alice_51 (C1), Amataga_56 (C1), ArcherS7_56 (C1), Asterius_54 (C1), Astraea_58 (C1), Atlantean_55 (C1), Audrick_58 (C1), Ava3_58 (C1), Babyland_55 (C1), BackyardAgain_54 (C1), BadAgartude_56 (C1), BananaFence_58 (C1), Bangla1971_57 (C1), Basquiat_52 (C1), BeanWater_50 (C1), BigCity_62 (C1), Bigswole_63 (C1), Bipolarisk_56 (C1), Blackbrain_51 (C1), Blubba_46 (C1), Bonray_57 (C1), Bread_57 (C1), Breeniome_58 (C1), Burrough_57 (C1), Bxz1_57 (C1), Cactojaque_51 (C1), Cali_54 (C1), Cane17_46 (C1), Capablanca_58 (C1), Caravan_53 (C1), Catera_55 (C1), Chargie21_52 (C1), CharlieB_54 (C1), ChaylaJr_52 (C1), ChickenPhender_52 (C1), Chomp_54 (C1), CindyLou_57 (C1), Colt_48 (C1), Concombre_62 (C1), DTDevon_57 (C1), Daffodil_59 (C1), Dandelion_62 (C1), Darko_56 (C1), Delilah_57 (C1), Delylah_57 (C1), Derek_57 (C1), Dietrick_50 (C1), DirtMonster_53 (C1), DrPhinkDaddy_56 (C1), Drazdys_56 (C1), ET08_48 (C1), EasyJones_59 (C1), EggyFarm_62 (C1), EmToTheThree_60

(C1), EmmaElysia_55 (C1), Erdmann_58 (C1), ErnieJ_56 (C1), Essence_55 (C1), Ewok_57 (C1), Flabslab_53 (C1), Fludd_56 (C1), FoxtrotP1_57 (C1), FrayBell_63 (C1), FudgeTart_58 (C1), Gabriel_58 (C1), Gamgam_56 (C1), Ghost_56 (C1), Gizmo_58 (C1), Grasshills_62 (C1), Grungle_48 (C1), Guwapp_55 (C1), Halldule_51 (C1), HyRo_52 (C1), I3_59 (C1), IkeLoa_51 (C1), InigoMontoya_57 (C1), InterFolia_65 (C1), Iota_51 (C1), Issimir_56 (C1), Izajani_58 (C1), JPickles_54 (C1), Janiyra_58 (C1), JayJay_60 (C1), Jaygup_56 (C1), Jedediah_57 (C1), Jemmno_56 (C1), Jessibeth14_55 (C1), JulietS_51 (C1), JustHall_52 (C1), Kamryn_56 (C1), Kboogie_57 (C1), Khaleesi_56 (C1), Koguma_53 (C1), LRRHood_53 (C1), Latch_56 (C1), Lee7_55 (C1), LifeSavor_56 (C1), LinStu_58 (C1), Littleton_56 (C1), Loanshark_57 (C1), LolaVinca_60 (C1), LordLeafolot_62 (C1), Lukilu_50 (C1), Maby2021_57 (C1), Mangeria_60 (C1), Matsumoto_55 (C1), McGee_55 (C1), McWolfish_55 (C1), Megamind_56 (C1), Melpomini_52 (C1), MikeLiesIn_57 (C1), Mikro_55 (C1), MoMoMixon_57 (C1), Momo_55 (C1), Morizzled23_59 (C1), Naija_55 (C1), Napoleon13_54 (C1), Nappy_59 (C1), Naval22_63 (C1), NedWong_58 (C1), Ngannou_51 (C1), Nidhogg_57 (C1), NoodleTree_57 (C1), Norm_57 (C1), NuevoMundo_62 (C1), ParkTD_56 (C1), Patter_56 (C1), Phlegm_58 (C1), Phox_55 (C1), Phusco_56 (C1), Pier_59 (C1), Pinkcreek_49 (C1), Pio_61 (C1), Pivoine_55 (C1), Pleione_59 (C1), PurduePete_56 (C1), QBert_51 (C1), Quasimodo_56 (C1), Rabinovish_56 (C1), Rahel_57 (C1), Rizal_55 (C1), RoMag_51 (C1), Ronan_51 (C1), Roots515_56 (C1), Salacia_59 (C1), Sauce_58 (C1), ScottMcG_55 (C1), Sebata_59 (C1), Shaqnato_51 (C1), Shelob_59 (C1), ShiaLabeouf_56 (C1), Shifa_50 (C1), Shnickers_56 (C1), Shrimp_57 (C1), SilverDipper_57 (C1), SmallFry_56 (C1), Spec_54 (C1), Specks_62 (C1), Sprinklers_53 (C1), Spud_57 (C1), SrishMeg2525_56 (C1), StephanieG_57 (C1), StubbySaigey_56 (C1), Stubby_52 (C1), Teardrop_56 (C1), TinyTim_57 (C1), Tonenili_66 (C1), Tortoise16_54 (C1), Trinitium_52 (C1), Turret_51 (C1), Tyke_58 (C1), ValleyTerrace_56 (C1), Wally_55 (C1), Willis_57 (C1), Yassified_54 (C1), YemiJoy2021_57 (C1), YoungMoneyMata_56 (C1), Yucca_57 (C1), Zalkecks_58 (C1), Zeenon_59 (C1), ZygoTaiga_57 (C1),

Start 51:

- Found in 2 of 408 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 373
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bactobuster_72 (A2), Landor_78 (A2),

Start 52:

- Found in 1 of 408 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 373
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jaan_78 (A2),

Start 56:

- Found in 21 of 408 (5.1%) of genes in pham
- Manual Annotations of this start: 1 of 373
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Phabba_14 (C2),

Summary by clusters:

There are 22 clusters represented in this pham: singleton, B10, B12, DX, B11, A15, A16, A2, A4, A7, A6, C2, C1, AA, W, DE5, B4, B5, B6, B7, M1, B9,

Info for manual annotations of cluster A15:

- Start number 41 was manually annotated 6 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 41 was manually annotated 2 times for cluster A16.

Info for manual annotations of cluster A2:

- Start number 51 was manually annotated 1 time for cluster A2.
- Start number 52 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A4:

- Start number 41 was manually annotated 112 times for cluster A4.

Info for manual annotations of cluster A6:

- Start number 41 was manually annotated 37 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 41 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster AA:

- Start number 39 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster B10:

- Start number 41 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 41 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 41 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B4:

- Start number 41 was manually annotated 5 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 41 was manually annotated 5 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 41 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:

- Start number 41 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B9:

- Start number 41 was manually annotated 3 times for cluster B9.

Info for manual annotations of cluster C1:

- Start number 48 was manually annotated 167 times for cluster C1.

Info for manual annotations of cluster C2:

- Start number 56 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster DE5:

- Start number 41 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DX:

- Start number 40 was manually annotated 1 time for cluster DX.
- Start number 41 was manually annotated 1 time for cluster DX.

Info for manual annotations of cluster M1:

- Start number 41 was manually annotated 12 times for cluster M1.

Info for manual annotations of cluster W:

- Start number 41 was manually annotated 8 times for cluster W.

Gene Information:

Gene: 39HC_090 Start: 66017, Stop: 65820, Start Num: 41

Candidate Starts for 39HC_090:

(Start: 39 @66029 has 2 MA's), (Start: 41 @66017 has 199 MA's), (Start: 56 @65969 has 1 MA's), (79, 65876), (88, 65837),

Gene: 40BC_090 Start: 66017, Stop: 65820, Start Num: 41

Candidate Starts for 40BC_090:

(Start: 39 @66029 has 2 MA's), (Start: 41 @66017 has 199 MA's), (Start: 56 @65969 has 1 MA's), (79, 65876), (88, 65837),

Gene: Abdiel_79 Start: 47438, Stop: 47268, Start Num: 41

Candidate Starts for Abdiel_79:

(4, 47819), (6, 47777), (21, 47642), (25, 47600), (28, 47564), (34, 47498), (Start: 41 @47438 has 199 MA's), (50, 47399), (70, 47345), (74, 47333),

Gene: Ading_56 Start: 17144, Stop: 17284, Start Num: 48

Candidate Starts for Ading_56:

(Start: 48 @17144 has 167 MA's), (58, 17171), (76, 17240), (81, 17273),

Gene: Adlitam_56 Start: 17161, Stop: 17301, Start Num: 48

Candidate Starts for Adlitam_56:

(Start: 48 @17161 has 167 MA's), (81, 17290),

Gene: Albee_80 Start: 47426, Stop: 47256, Start Num: 41

Candidate Starts for Albee_80:

(4, 47807), (6, 47765), (21, 47630), (25, 47588), (28, 47552), (34, 47486), (Start: 41 @47426 has 199 MA's), (50, 47387), (70, 47333), (74, 47321),

Gene: Alberto7_81 Start: 47763, Stop: 47593, Start Num: 41

Candidate Starts for Alberto7_81:

(6, 48102), (21, 47967), (25, 47925), (28, 47889), (34, 47823), (Start: 41 @47763 has 199 MA's), (50, 47724), (70, 47670), (74, 47658),

Gene: Alice_51 Start: 17217, Stop: 17357, Start Num: 48

Candidate Starts for Alice_51:

(Start: 48 @17217 has 167 MA's),

Gene: Amataga_56 Start: 17165, Stop: 17305, Start Num: 48
Candidate Starts for Amataga_56:
(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Annyong_79 Start: 47471, Stop: 47301, Start Num: 41
Candidate Starts for Annyong_79:
(4, 47852), (6, 47810), (21, 47675), (25, 47633), (28, 47597), (34, 47531), (Start: 41 @47471 has 199 MA's), (50, 47432), (70, 47378), (74, 47366),

Gene: ArcherS7_56 Start: 17528, Stop: 17668, Start Num: 48
Candidate Starts for ArcherS7_56:
(Start: 48 @17528 has 167 MA's), (81, 17657),

Gene: Argie_88 Start: 59134, Stop: 59316, Start Num: 41
Candidate Starts for Argie_88:
(37, 59113), (Start: 41 @59134 has 199 MA's), (54, 59182), (Start: 56 @59188 has 1 MA's), (66, 59218), (69, 59224), (74, 59236), (76, 59257),

Gene: Artemis2UCLA_87 Start: 46325, Stop: 46167, Start Num: 41
Candidate Starts for Artemis2UCLA_87:
(31, 46418), (Start: 41 @46325 has 199 MA's), (63, 46250), (72, 46235),

Gene: Arturo_77 Start: 47554, Stop: 47384, Start Num: 41
Candidate Starts for Arturo_77:
(6, 47893), (25, 47716), (28, 47680), (34, 47614), (Start: 41 @47554 has 199 MA's), (50, 47515), (70, 47461), (74, 47449),

Gene: Asterius_54 Start: 17623, Stop: 17763, Start Num: 48
Candidate Starts for Asterius_54:
(Start: 48 @17623 has 167 MA's), (81, 17752),

Gene: Astraea_58 Start: 18620, Stop: 18760, Start Num: 48
Candidate Starts for Astraea_58:
(Start: 48 @18620 has 167 MA's),

Gene: Atlantean_55 Start: 17165, Stop: 17305, Start Num: 48
Candidate Starts for Atlantean_55:
(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Audrick_58 Start: 17144, Stop: 17284, Start Num: 48
Candidate Starts for Audrick_58:
(Start: 48 @17144 has 167 MA's), (58, 17171), (76, 17240), (81, 17273),

Gene: Auspice_148 Start: 74560, Stop: 74396, Start Num: 41
Candidate Starts for Auspice_148:
(Start: 41 @74560 has 199 MA's), (50, 74521),

Gene: Ava3_58 Start: 18222, Stop: 18362, Start Num: 48
Candidate Starts for Ava3_58:
(Start: 48 @18222 has 167 MA's),

Gene: Avle17_80 Start: 47420, Stop: 47250, Start Num: 41

Candidate Starts for Avle17_80:

(6, 47759), (25, 47582), (28, 47546), (34, 47480), (Start: 41 @47420 has 199 MA's), (50, 47381), (70, 47327), (74, 47315),

Gene: BABullseye_79 Start: 44645, Stop: 44487, Start Num: 41

Candidate Starts for BABullseye_79:

(23, 44846), (31, 44738), (Start: 41 @44645 has 199 MA's), (63, 44570), (72, 44555),

Gene: Baby16_80 Start: 47437, Stop: 47267, Start Num: 41

Candidate Starts for Baby16_80:

(4, 47818), (6, 47776), (21, 47641), (25, 47599), (28, 47563), (34, 47497), (Start: 41 @47437 has 199 MA's), (50, 47398), (70, 47344), (74, 47332),

Gene: Babyland_55 Start: 16603, Stop: 16743, Start Num: 48

Candidate Starts for Babyland_55:

(Start: 48 @16603 has 167 MA's), (58, 16630), (76, 16699), (81, 16732),

Gene: BackyardAgain_54 Start: 17096, Stop: 17236, Start Num: 48

Candidate Starts for BackyardAgain_54:

(Start: 48 @17096 has 167 MA's), (81, 17225),

Gene: Bactobuster_72 Start: 46044, Stop: 45904, Start Num: 51

Candidate Starts for Bactobuster_72:

(3, 46479), (7, 46434), (8, 46416), (10, 46392), (16, 46338), (27, 46221), (32, 46164), (36, 46113), (Start: 51 @46044 has 1 MA's), (68, 45987),

Gene: BadAgartude_56 Start: 19083, Stop: 19223, Start Num: 48

Candidate Starts for BadAgartude_56:

(Start: 48 @19083 has 167 MA's), (58, 19110), (81, 19212),

Gene: Bae_85 Start: 65223, Stop: 65053, Start Num: 41

Candidate Starts for Bae_85:

(38, 65241), (Start: 41 @65223 has 199 MA's), (57, 65172), (75, 65118),

Gene: BananaFence_58 Start: 18106, Stop: 18246, Start Num: 48

Candidate Starts for BananaFence_58:

(Start: 48 @18106 has 167 MA's),

Gene: BangNhom_77 Start: 47863, Stop: 47693, Start Num: 41

Candidate Starts for BangNhom_77:

(6, 48202), (25, 48025), (28, 47989), (34, 47923), (Start: 41 @47863 has 199 MA's), (50, 47824), (70, 47770), (74, 47758),

Gene: Bangla1971_57 Start: 17658, Stop: 17798, Start Num: 48

Candidate Starts for Bangla1971_57:

(Start: 48 @17658 has 167 MA's), (81, 17787),

Gene: Bartimeaus_80 Start: 47428, Stop: 47258, Start Num: 41

Candidate Starts for Bartimeaus_80:

(4, 47809), (6, 47767), (21, 47632), (25, 47590), (28, 47554), (34, 47488), (Start: 41 @47428 has 199 MA's), (50, 47389), (70, 47335), (74, 47323),

Gene: Basquiat_52 Start: 16592, Stop: 16732, Start Num: 48

Candidate Starts for Basquiat_52:
(Start: 48 @16592 has 167 MA's),

Gene: BeanWater_50 Start: 17632, Stop: 17772, Start Num: 48
Candidate Starts for BeanWater_50:
(Start: 48 @17632 has 167 MA's), (58, 17659), (81, 17761),

Gene: BigCity_62 Start: 19426, Stop: 19566, Start Num: 48
Candidate Starts for BigCity_62:
(Start: 48 @19426 has 167 MA's), (58, 19453), (81, 19555),

Gene: Bigswole_63 Start: 20460, Stop: 20600, Start Num: 48
Candidate Starts for Bigswole_63:
(Start: 48 @20460 has 167 MA's), (81, 20589),

Gene: Bipolarisk_56 Start: 17933, Stop: 18073, Start Num: 48
Candidate Starts for Bipolarisk_56:
(Start: 48 @17933 has 167 MA's),

Gene: Blackbrain_51 Start: 16409, Stop: 16549, Start Num: 48
Candidate Starts for Blackbrain_51:
(Start: 48 @16409 has 167 MA's),

Gene: Blackmoor_79 Start: 47428, Stop: 47258, Start Num: 41
Candidate Starts for Blackmoor_79:
(4, 47809), (6, 47767), (21, 47632), (25, 47590), (28, 47554), (34, 47488), (Start: 41 @47428 has 199 MA's), (50, 47389), (70, 47335), (74, 47323),

Gene: Blubba_46 Start: 15453, Stop: 15593, Start Num: 48
Candidate Starts for Blubba_46:
(Start: 48 @15453 has 167 MA's),

Gene: Blue7_89 Start: 46544, Stop: 46386, Start Num: 41
Candidate Starts for Blue7_89:
(23, 46745), (31, 46637), (Start: 41 @46544 has 199 MA's), (63, 46469), (72, 46454),

Gene: Bombshell_80 Start: 47423, Stop: 47253, Start Num: 41
Candidate Starts for Bombshell_80:
(6, 47762), (25, 47585), (28, 47549), (34, 47483), (Start: 41 @47423 has 199 MA's), (50, 47384), (70, 47330), (74, 47318),

Gene: Bongo_142 Start: 73417, Stop: 73256, Start Num: 41
Candidate Starts for Bongo_142:
(Start: 41 @73417 has 199 MA's), (49, 73381), (61, 73351), (72, 73333), (73, 73327), (82, 73267),

Gene: Bonray_57 Start: 18210, Stop: 18350, Start Num: 48
Candidate Starts for Bonray_57:
(Start: 48 @18210 has 167 MA's),

Gene: Bread_57 Start: 17903, Stop: 18043, Start Num: 48
Candidate Starts for Bread_57:
(Start: 48 @17903 has 167 MA's),

Gene: Breeniome_58 Start: 17407, Stop: 17547, Start Num: 48
Candidate Starts for Breeniome_58:
(Start: 48 @17407 has 167 MA's), (81, 17536),

Gene: Bricole_150 Start: 74323, Stop: 74159, Start Num: 41
Candidate Starts for Bricole_150:
(Start: 41 @74323 has 199 MA's), (50, 74284),

Gene: Broseidon_80 Start: 47429, Stop: 47259, Start Num: 41
Candidate Starts for Broseidon_80:
(4, 47810), (6, 47768), (21, 47633), (25, 47591), (28, 47555), (34, 47489), (Start: 41 @47429 has 199 MA's), (50, 47390), (70, 47336), (74, 47324),

Gene: Bruiser_79 Start: 47426, Stop: 47256, Start Num: 41
Candidate Starts for Bruiser_79:
(6, 47765), (25, 47588), (28, 47552), (34, 47486), (Start: 41 @47426 has 199 MA's), (50, 47387), (70, 47333), (74, 47321),

Gene: BubbleTrouble_79 Start: 47453, Stop: 47283, Start Num: 41
Candidate Starts for BubbleTrouble_79:
(4, 47834), (6, 47792), (21, 47657), (25, 47615), (28, 47579), (34, 47513), (Start: 41 @47453 has 199 MA's), (50, 47414), (70, 47360), (74, 47348),

Gene: Burger_78 Start: 47426, Stop: 47256, Start Num: 41
Candidate Starts for Burger_78:
(6, 47765), (25, 47588), (28, 47552), (34, 47486), (Start: 41 @47426 has 199 MA's), (50, 47387), (70, 47333), (74, 47321),

Gene: Burrough_57 Start: 17933, Stop: 18073, Start Num: 48
Candidate Starts for Burrough_57:
(Start: 48 @17933 has 167 MA's), (81, 18062),

Gene: Bxz1_57 Start: 18984, Stop: 19124, Start Num: 48
Candidate Starts for Bxz1_57:
(Start: 48 @18984 has 167 MA's), (81, 19113),

Gene: CRB2_86 Start: 67074, Stop: 66823, Start Num: 41
Candidate Starts for CRB2_86:
(Start: 41 @67074 has 199 MA's), (Start: 56 @67026 has 1 MA's), (78, 66936), (86, 66903), (90, 66873),

Gene: Cactojaque_51 Start: 16516, Stop: 16656, Start Num: 48
Candidate Starts for Cactojaque_51:
(Start: 48 @16516 has 167 MA's),

Gene: Caelakin_78 Start: 47426, Stop: 47256, Start Num: 41
Candidate Starts for Caelakin_78:
(6, 47765), (25, 47588), (28, 47552), (34, 47486), (Start: 41 @47426 has 199 MA's), (50, 47387), (70, 47333), (74, 47321),

Gene: Cali_54 Start: 18869, Stop: 19009, Start Num: 48
Candidate Starts for Cali_54:
(Start: 48 @18869 has 167 MA's), (58, 18896), (81, 18998),

Gene: Candra_84 Start: 46350, Stop: 46192, Start Num: 41
Candidate Starts for Candra_84:
(Start: 41 @46350 has 199 MA's), (49, 46317), (63, 46275), (72, 46260),

Gene: Cane17_46 Start: 15171, Stop: 15311, Start Num: 48
Candidate Starts for Cane17_46:
(Start: 48 @15171 has 167 MA's),

Gene: Capablanca_58 Start: 18290, Stop: 18430, Start Num: 48
Candidate Starts for Capablanca_58:
(Start: 48 @18290 has 167 MA's), (58, 18317), (76, 18386), (81, 18419),

Gene: Caravan_53 Start: 17274, Stop: 17414, Start Num: 48
Candidate Starts for Caravan_53:
(Start: 48 @17274 has 167 MA's), (81, 17403),

Gene: Catera_55 Start: 17100, Stop: 17240, Start Num: 48
Candidate Starts for Catera_55:
(Start: 48 @17100 has 167 MA's), (58, 17127), (81, 17229),

Gene: CentreCat_80 Start: 47466, Stop: 47296, Start Num: 41
Candidate Starts for CentreCat_80:
(6, 47805), (25, 47628), (28, 47592), (34, 47526), (Start: 41 @47466 has 199 MA's), (50, 47427), (70, 47373), (74, 47361),

Gene: Cepens_87 Start: 58243, Stop: 58425, Start Num: 41
Candidate Starts for Cepens_87:
(37, 58222), (38, 58225), (Start: 41 @58243 has 199 MA's), (54, 58291), (Start: 56 @58297 has 1 MA's), (66, 58327), (69, 58333), (74, 58345), (76, 58366),

Gene: Cerulean_82 Start: 47864, Stop: 47694, Start Num: 41
Candidate Starts for Cerulean_82:
(6, 48203), (25, 48026), (28, 47990), (34, 47924), (Start: 41 @47864 has 199 MA's), (50, 47825), (70, 47771), (74, 47759),

Gene: ChampagnePapi_83 Start: 47866, Stop: 47696, Start Num: 41
Candidate Starts for ChampagnePapi_83:
(6, 48205), (25, 48028), (28, 47992), (34, 47926), (Start: 41 @47866 has 199 MA's), (50, 47827), (70, 47773), (74, 47761),

Gene: Chaph_80 Start: 47437, Stop: 47267, Start Num: 41
Candidate Starts for Chaph_80:
(6, 47776), (25, 47599), (28, 47563), (34, 47497), (Start: 41 @47437 has 199 MA's), (50, 47398), (70, 47344), (74, 47332),

Gene: Chargie21_52 Start: 16592, Stop: 16732, Start Num: 48
Candidate Starts for Chargie21_52:
(Start: 48 @16592 has 167 MA's),

Gene: CharlieB_54 Start: 16867, Stop: 17007, Start Num: 48
Candidate Starts for CharlieB_54:
(Start: 48 @16867 has 167 MA's), (58, 16894), (81, 16996),

Gene: Chartreuse_84 Start: 45651, Stop: 45493, Start Num: 41

Candidate Starts for Chartreuse_84:

(Start: 41 @45651 has 199 MA's), (63, 45576), (72, 45561),

Gene: ChaylaJr_52 Start: 16679, Stop: 16819, Start Num: 48

Candidate Starts for ChaylaJr_52:

(Start: 48 @16679 has 167 MA's), (58, 16706), (81, 16808),

Gene: ChickenPhender_52 Start: 16638, Stop: 16778, Start Num: 48

Candidate Starts for ChickenPhender_52:

(Start: 48 @16638 has 167 MA's), (58, 16665), (81, 16767),

Gene: Chomp_54 Start: 17165, Stop: 17305, Start Num: 48

Candidate Starts for Chomp_54:

(Start: 48 @17165 has 167 MA's), (81, 17294),

Gene: ChrisnMich_89 Start: 65230, Stop: 65066, Start Num: 41

Candidate Starts for ChrisnMich_89:

(1, 65677), (9, 65536), (11, 65527), (13, 65506), (14, 65497), (18, 65467), (38, 65248), (Start: 41 @65230 has 199 MA's), (65, 65158), (73, 65140),

Gene: CindyLou_57 Start: 17690, Stop: 17830, Start Num: 48

Candidate Starts for CindyLou_57:

(Start: 48 @17690 has 167 MA's), (58, 17717), (76, 17786), (81, 17819),

Gene: Cintron_80 Start: 47542, Stop: 47372, Start Num: 41

Candidate Starts for Cintron_80:

(6, 47881), (25, 47704), (28, 47668), (34, 47602), (Start: 41 @47542 has 199 MA's), (50, 47503), (70, 47449), (74, 47437),

Gene: Citius_80 Start: 47447, Stop: 47277, Start Num: 41

Candidate Starts for Citius_80:

(4, 47828), (6, 47786), (21, 47651), (25, 47609), (28, 47573), (34, 47507), (Start: 41 @47447 has 199 MA's), (50, 47408), (70, 47354), (74, 47342),

Gene: Clarenza_79 Start: 47423, Stop: 47253, Start Num: 41

Candidate Starts for Clarenza_79:

(6, 47762), (25, 47585), (28, 47549), (34, 47483), (Start: 41 @47423 has 199 MA's), (50, 47384), (70, 47330), (74, 47318),

Gene: CloudWang3_88 Start: 46854, Stop: 46696, Start Num: 41

Candidate Starts for CloudWang3_88:

(31, 46947), (Start: 41 @46854 has 199 MA's), (63, 46779), (72, 46764),

Gene: Cocoaberry_80 Start: 47427, Stop: 47257, Start Num: 41

Candidate Starts for Cocoaberry_80:

(6, 47766), (25, 47589), (28, 47553), (34, 47487), (Start: 41 @47427 has 199 MA's), (50, 47388), (70, 47334), (74, 47322),

Gene: Colt_48 Start: 16038, Stop: 16178, Start Num: 48

Candidate Starts for Colt_48:

(Start: 48 @16038 has 167 MA's),

Gene: Commander_78 Start: 47424, Stop: 47254, Start Num: 41
Candidate Starts for Commander_78:
(6, 47763), (25, 47586), (28, 47550), (34, 47484), (Start: 41 @47424 has 199 MA's), (50, 47385), (70, 47331), (74, 47319),

Gene: Concombres_62 Start: 20107, Stop: 20247, Start Num: 48
Candidate Starts for Concombres_62:
(Start: 48 @20107 has 167 MA's), (81, 20236),

Gene: Connomayer_80 Start: 47426, Stop: 47256, Start Num: 41
Candidate Starts for Connomayer_80:
(4, 47807), (6, 47765), (21, 47630), (25, 47588), (28, 47552), (34, 47486), (Start: 41 @47426 has 199 MA's), (50, 47387), (70, 47333), (74, 47321),

Gene: Cookiedough_86 Start: 46958, Stop: 46800, Start Num: 41
Candidate Starts for Cookiedough_86:
(23, 47159), (31, 47051), (Start: 41 @46958 has 199 MA's), (63, 46883), (72, 46868),

Gene: Cooper_89 Start: 65767, Stop: 65579, Start Num: 41
Candidate Starts for Cooper_89:
(1, 66214), (9, 66073), (11, 66064), (13, 66043), (14, 66034), (18, 66004), (19, 65998), (38, 65785), (Start: 41 @65767 has 199 MA's), (53, 65719), (75, 65647),

Gene: D12_85 Start: 58877, Stop: 59059, Start Num: 41
Candidate Starts for D12_85:
(37, 58856), (Start: 41 @58877 has 199 MA's), (54, 58925), (Start: 56 @58931 has 1 MA's), (66, 58961), (69, 58967), (74, 58979), (76, 59000),

Gene: DTDevon_57 Start: 18329, Stop: 18469, Start Num: 48
Candidate Starts for DTDevon_57:
(Start: 48 @18329 has 167 MA's), (81, 18458),

Gene: DaVinci_84 Start: 45705, Stop: 45547, Start Num: 41
Candidate Starts for DaVinci_84:
(Start: 41 @45705 has 199 MA's), (63, 45630), (72, 45615),

Gene: Daffodil_59 Start: 18222, Stop: 18362, Start Num: 48
Candidate Starts for Daffodil_59:
(Start: 48 @18222 has 167 MA's),

Gene: Dandelion_62 Start: 20004, Stop: 20144, Start Num: 48
Candidate Starts for Dandelion_62:
(Start: 48 @20004 has 167 MA's), (81, 20133),

Gene: Darko_56 Start: 18075, Stop: 18215, Start Num: 48
Candidate Starts for Darko_56:
(Start: 48 @18075 has 167 MA's),

Gene: Datway_77 Start: 47237, Stop: 47067, Start Num: 41
Candidate Starts for Datway_77:
(6, 47576), (25, 47399), (28, 47363), (34, 47297), (Start: 41 @47237 has 199 MA's), (50, 47198), (70, 47144), (73, 47135), (74, 47132),

Gene: Deano_77 Start: 47434, Stop: 47264, Start Num: 41
Candidate Starts for Deano_77:
(4, 47815), (6, 47773), (21, 47638), (25, 47596), (28, 47560), (34, 47494), (Start: 41 @47434 has 199 MA's), (50, 47395), (70, 47341), (74, 47329),

Gene: Delilah_57 Start: 18222, Stop: 18362, Start Num: 48
Candidate Starts for Delilah_57:
(Start: 48 @18222 has 167 MA's),

Gene: Delylah_57 Start: 18000, Stop: 18140, Start Num: 48
Candidate Starts for Delylah_57:
(Start: 48 @18000 has 167 MA's),

Gene: Derek_57 Start: 17496, Stop: 17636, Start Num: 48
Candidate Starts for Derek_57:
(Start: 48 @17496 has 167 MA's), (58, 17523), (76, 17592), (81, 17625),

Gene: Dhanush_80 Start: 47429, Stop: 47259, Start Num: 41
Candidate Starts for Dhanush_80:
(6, 47768), (25, 47591), (28, 47555), (34, 47489), (Start: 41 @47429 has 199 MA's), (50, 47390), (70, 47336), (74, 47324),

Gene: Dietrick_50 Start: 16338, Stop: 16478, Start Num: 48
Candidate Starts for Dietrick_50:
(Start: 48 @16338 has 167 MA's), (58, 16365), (81, 16467),

Gene: Diminimus_145 Start: 73233, Stop: 73072, Start Num: 41
Candidate Starts for Diminimus_145:
(Start: 41 @73233 has 199 MA's), (49, 73197), (61, 73167), (72, 73149), (73, 73143), (82, 73083),

Gene: DirtMonster_53 Start: 18135, Stop: 18275, Start Num: 48
Candidate Starts for DirtMonster_53:
(Start: 48 @18135 has 167 MA's), (81, 18264),

Gene: DirtyDunning_79 Start: 47438, Stop: 47268, Start Num: 41
Candidate Starts for DirtyDunning_79:
(6, 47777), (21, 47642), (25, 47600), (28, 47564), (34, 47498), (Start: 41 @47438 has 199 MA's), (50, 47399), (70, 47345), (74, 47333),

Gene: Dorothea_83 Start: 46951, Stop: 46793, Start Num: 41
Candidate Starts for Dorothea_83:
(Start: 41 @46951 has 199 MA's), (63, 46876), (72, 46861),

Gene: DrPhinkDaddy_56 Start: 18271, Stop: 18411, Start Num: 48
Candidate Starts for DrPhinkDaddy_56:
(26, 18082), (Start: 48 @18271 has 167 MA's), (58, 18298), (81, 18400),

Gene: Drazdys_56 Start: 18002, Stop: 18142, Start Num: 48
Candidate Starts for Drazdys_56:
(Start: 48 @18002 has 167 MA's), (81, 18131),

Gene: Dulcita_145 Start: 73234, Stop: 73073, Start Num: 41

Candidate Starts for Dulcita_145:
(Start: 41 @73234 has 199 MA's), (49, 73198), (61, 73168), (72, 73150), (73, 73144), (82, 73084),

Gene: ET08_48 Start: 16735, Stop: 16875, Start Num: 48
Candidate Starts for ET08_48:
(Start: 48 @16735 has 167 MA's), (58, 16762), (81, 16864),

Gene: Eagle_79 Start: 47488, Stop: 47318, Start Num: 41
Candidate Starts for Eagle_79:
(6, 47827), (25, 47650), (28, 47614), (34, 47548), (Start: 41 @47488 has 199 MA's), (50, 47449), (70, 47395), (74, 47383),

Gene: EagleEye_85 Start: 47807, Stop: 47646, Start Num: 41
Candidate Starts for EagleEye_85:
(Start: 41 @47807 has 199 MA's), (63, 47732), (72, 47717), (79, 47669),

Gene: Eapen_80 Start: 47421, Stop: 47251, Start Num: 41
Candidate Starts for Eapen_80:
(6, 47760), (25, 47583), (28, 47547), (34, 47481), (Start: 41 @47421 has 199 MA's), (50, 47382), (70, 47328), (74, 47316),

Gene: EasyJones_59 Start: 18298, Stop: 18438, Start Num: 48
Candidate Starts for EasyJones_59:
(Start: 48 @18298 has 167 MA's), (81, 18427),

Gene: EggyFarm_62 Start: 19426, Stop: 19566, Start Num: 48
Candidate Starts for EggyFarm_62:
(Start: 48 @19426 has 167 MA's), (58, 19453), (81, 19555),

Gene: EmToTheThree_60 Start: 19636, Stop: 19776, Start Num: 48
Candidate Starts for EmToTheThree_60:
(Start: 48 @19636 has 167 MA's),

Gene: EmmaElysia_55 Start: 16735, Stop: 16875, Start Num: 48
Candidate Starts for EmmaElysia_55:
(Start: 48 @16735 has 167 MA's), (81, 16864),

Gene: Epsocamisio_84 Start: 46230, Stop: 46054, Start Num: 41
Candidate Starts for Epsocamisio_84:
(Start: 41 @46230 has 199 MA's), (70, 46143),

Gene: Erdmann_58 Start: 18222, Stop: 18362, Start Num: 48
Candidate Starts for Erdmann_58:
(Start: 48 @18222 has 167 MA's),

Gene: EricB_84 Start: 45848, Stop: 45690, Start Num: 41
Candidate Starts for EricB_84:
(Start: 41 @45848 has 199 MA's), (49, 45815), (63, 45773), (72, 45758),

Gene: Eris_79 Start: 47438, Stop: 47268, Start Num: 41
Candidate Starts for Eris_79:
(6, 47777), (25, 47600), (28, 47564), (34, 47498), (Start: 41 @47438 has 199 MA's), (50, 47399), (70, 47345), (74, 47333),

Gene: ErnieJ_56 Start: 17511, Stop: 17651, Start Num: 48

Candidate Starts for ErnieJ_56:

(Start: 48 @17511 has 167 MA's),

Gene: Eros_80 Start: 47428, Stop: 47258, Start Num: 41

Candidate Starts for Eros_80:

(6, 47767), (25, 47590), (28, 47554), (34, 47488), (Start: 41 @47428 has 199 MA's), (50, 47389), (70, 47335), (74, 47323),

Gene: Essence_55 Start: 17019, Stop: 17159, Start Num: 48

Candidate Starts for Essence_55:

(Start: 48 @17019 has 167 MA's), (81, 17148),

Gene: Eurydice_81 Start: 47463, Stop: 47293, Start Num: 41

Candidate Starts for Eurydice_81:

(6, 47802), (25, 47625), (28, 47589), (34, 47523), (Start: 41 @47463 has 199 MA's), (50, 47424), (70, 47370), (74, 47358),

Gene: Ewok_57 Start: 18225, Stop: 18365, Start Num: 48

Candidate Starts for Ewok_57:

(Start: 48 @18225 has 167 MA's),

Gene: Finch_206 Start: 120593, Stop: 120769, Start Num: 41

Candidate Starts for Finch_206:

(5, 120215), (32, 120515), (Start: 40 @120590 has 1 MA's), (Start: 41 @120593 has 199 MA's), (46, 120620), (50, 120632), (53, 120641), (61, 120668), (70, 120689), (76, 120722),

Gene: Flabslab_53 Start: 17244, Stop: 17384, Start Num: 48

Candidate Starts for Flabslab_53:

(Start: 48 @17244 has 167 MA's),

Gene: Florean_80 Start: 47425, Stop: 47255, Start Num: 41

Candidate Starts for Florean_80:

(4, 47806), (6, 47764), (21, 47629), (25, 47587), (28, 47551), (34, 47485), (Start: 41 @47425 has 199 MA's), (50, 47386), (70, 47332), (74, 47320),

Gene: Fludd_56 Start: 17097, Stop: 17237, Start Num: 48

Candidate Starts for Fludd_56:

(Start: 48 @17097 has 167 MA's),

Gene: Flux_81 Start: 47424, Stop: 47254, Start Num: 41

Candidate Starts for Flux_81:

(6, 47763), (25, 47586), (28, 47550), (34, 47484), (Start: 41 @47424 has 199 MA's), (50, 47385), (70, 47331), (74, 47319),

Gene: FoxtrotP1_57 Start: 18550, Stop: 18690, Start Num: 48

Candidate Starts for FoxtrotP1_57:

(Start: 48 @18550 has 167 MA's),

Gene: FrayBell_63 Start: 19736, Stop: 19876, Start Num: 48

Candidate Starts for FrayBell_63:

(Start: 48 @19736 has 167 MA's),

Gene: FudgeTart_58 Start: 18086, Stop: 18226, Start Num: 48
Candidate Starts for FudgeTart_58:
(Start: 48 @18086 has 167 MA's),

Gene: Funsized_87 Start: 67824, Stop: 67570, Start Num: 41
Candidate Starts for Funsized_87:
(17, 68058), (Start: 41 @67824 has 199 MA's), (46, 67797), (53, 67785), (Start: 56 @67776 has 1 MA's), (62, 67743), (76, 67701), (79, 67683),

Gene: Funston_79 Start: 47423, Stop: 47253, Start Num: 41
Candidate Starts for Funston_79:
(6, 47762), (25, 47585), (28, 47549), (34, 47483), (Start: 41 @47423 has 199 MA's), (50, 47384), (70, 47330), (74, 47318),

Gene: Gabriel_58 Start: 17398, Stop: 17538, Start Num: 48
Candidate Starts for Gabriel_58:
(Start: 48 @17398 has 167 MA's), (81, 17527),

Gene: Gadost_80 Start: 47427, Stop: 47257, Start Num: 41
Candidate Starts for Gadost_80:
(6, 47766), (25, 47589), (28, 47553), (34, 47487), (Start: 41 @47427 has 199 MA's), (50, 47388), (70, 47334), (74, 47322),

Gene: Gamgam_56 Start: 17165, Stop: 17305, Start Num: 48
Candidate Starts for Gamgam_56:
(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Garak_89 Start: 46787, Stop: 46629, Start Num: 41
Candidate Starts for Garak_89:
(23, 46988), (31, 46880), (Start: 41 @46787 has 199 MA's), (63, 46712), (72, 46697),

Gene: Ghost_56 Start: 17165, Stop: 17305, Start Num: 48
Candidate Starts for Ghost_56:
(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Gizmo_58 Start: 17905, Stop: 18045, Start Num: 48
Candidate Starts for Gizmo_58:
(Start: 48 @17905 has 167 MA's),

Gene: Gladiator_84 Start: 46510, Stop: 46352, Start Num: 41
Candidate Starts for Gladiator_84:
(31, 46603), (Start: 41 @46510 has 199 MA's), (49, 46477), (63, 46435), (72, 46420),

Gene: Glaske16_147 Start: 74352, Stop: 74191, Start Num: 41
Candidate Starts for Glaske16_147:
(Start: 41 @74352 has 199 MA's), (49, 74316), (61, 74286), (72, 74268), (73, 74262), (82, 74202),

Gene: GodPhather_87 Start: 59020, Stop: 59202, Start Num: 41
Candidate Starts for GodPhather_87:
(37, 58999), (38, 59002), (Start: 41 @59020 has 199 MA's), (54, 59068), (Start: 56 @59074 has 1 MA's), (66, 59104), (69, 59110), (74, 59122), (76, 59143),

Gene: Grasshills_62 Start: 19426, Stop: 19566, Start Num: 48

Candidate Starts for Grasshills_62:

(Start: 48 @19426 has 167 MA's), (58, 19453), (81, 19555),

Gene: GreedyLawyer_79 Start: 46280, Stop: 46122, Start Num: 41

Candidate Starts for GreedyLawyer_79:

(23, 46481), (31, 46373), (Start: 41 @46280 has 199 MA's), (63, 46205), (72, 46190),

Gene: Grungle_48 Start: 15817, Stop: 15957, Start Num: 48

Candidate Starts for Grungle_48:

(Start: 48 @15817 has 167 MA's), (58, 15844), (81, 15946),

Gene: Gruunaga_87 Start: 46465, Stop: 46307, Start Num: 41

Candidate Starts for Gruunaga_87:

(31, 46558), (Start: 41 @46465 has 199 MA's), (49, 46432), (63, 46390), (72, 46375),

Gene: Guwapp_55 Start: 17260, Stop: 17400, Start Num: 48

Candidate Starts for Guwapp_55:

(Start: 48 @17260 has 167 MA's), (81, 17389),

Gene: Halldule_51 Start: 16269, Stop: 16409, Start Num: 48

Candidate Starts for Halldule_51:

(Start: 48 @16269 has 167 MA's), (81, 16398),

Gene: HamSlice_76 Start: 47425, Stop: 47255, Start Num: 41

Candidate Starts for HamSlice_76:

(4, 47806), (6, 47764), (21, 47629), (25, 47587), (28, 47551), (34, 47485), (Start: 41 @47425 has 199 MA's), (50, 47386), (70, 47332), (74, 47320),

Gene: Hammer_88 Start: 46172, Stop: 46014, Start Num: 41

Candidate Starts for Hammer_88:

(31, 46265), (Start: 41 @46172 has 199 MA's), (49, 46139), (63, 46097), (72, 46082),

Gene: Happiness_79 Start: 47449, Stop: 47279, Start Num: 41

Candidate Starts for Happiness_79:

(25, 47611), (28, 47575), (34, 47509), (Start: 41 @47449 has 199 MA's), (50, 47410), (70, 47356), (74, 47344),

Gene: Helmet_89 Start: 46787, Stop: 46629, Start Num: 41

Candidate Starts for Helmet_89:

(23, 46988), (31, 46880), (Start: 41 @46787 has 199 MA's), (63, 46712), (72, 46697),

Gene: Hexamo_87 Start: 46340, Stop: 46182, Start Num: 41

Candidate Starts for Hexamo_87:

(31, 46433), (Start: 41 @46340 has 199 MA's), (63, 46265), (72, 46250),

Gene: Holli_79 Start: 47216, Stop: 47046, Start Num: 41

Candidate Starts for Holli_79:

(4, 47597), (6, 47555), (21, 47420), (25, 47378), (28, 47342), (34, 47276), (Start: 41 @47216 has 199 MA's), (50, 47177), (70, 47123), (74, 47111),

Gene: Hoot_81 Start: 44165, Stop: 44007, Start Num: 41

Candidate Starts for Hoot_81:

(Start: 41 @44165 has 199 MA's), (49, 44132), (63, 44090), (72, 44075),

Gene: Hosp_085 Start: 63309, Stop: 63112, Start Num: 41

Candidate Starts for Hosp_085:

(Start: 39 @63321 has 2 MA's), (Start: 41 @63309 has 199 MA's), (Start: 56 @63261 has 1 MA's), (79, 63168), (88, 63129),

Gene: Houdini22_79 Start: 47427, Stop: 47257, Start Num: 41

Candidate Starts for Houdini22_79:

(6, 47766), (25, 47589), (28, 47553), (34, 47487), (Start: 41 @47427 has 199 MA's), (50, 47388), (70, 47334), (74, 47322),

Gene: HyRo_52 Start: 17627, Stop: 17767, Start Num: 48

Candidate Starts for HyRo_52:

(Start: 48 @17627 has 167 MA's), (81, 17756),

Gene: Hydro_87 Start: 66400, Stop: 66179, Start Num: 41

Candidate Starts for Hydro_87:

(Start: 41 @66400 has 199 MA's), (47, 66370), (74, 66286), (75, 66283), (84, 66220),

Gene: I3_59 Start: 17958, Stop: 18098, Start Num: 48

Candidate Starts for I3_59:

(Start: 48 @17958 has 167 MA's), (76, 18054), (81, 18087),

Gene: ICleared_79 Start: 47494, Stop: 47324, Start Num: 41

Candidate Starts for ICleared_79:

(6, 47833), (25, 47656), (28, 47620), (34, 47554), (Start: 41 @47494 has 199 MA's), (50, 47455), (70, 47401), (74, 47389),

Gene: IPhane7_145 Start: 74176, Stop: 74012, Start Num: 41

Candidate Starts for IPhane7_145:

(Start: 41 @74176 has 199 MA's), (50, 74137),

Gene: Iceman_78 Start: 47716, Stop: 47546, Start Num: 41

Candidate Starts for Iceman_78:

(6, 48055), (25, 47878), (28, 47842), (34, 47776), (Start: 41 @47716 has 199 MA's), (50, 47677), (70, 47623), (74, 47611),

Gene: IkeLoa_51 Start: 17025, Stop: 17165, Start Num: 48

Candidate Starts for IkeLoa_51:

(Start: 48 @17025 has 167 MA's), (58, 17052), (81, 17154),

Gene: Imvubu_91 Start: 65831, Stop: 65577, Start Num: 41

Candidate Starts for Imvubu_91:

(22, 66041), (27, 65969), (Start: 41 @65831 has 199 MA's), (Start: 56 @65783 has 1 MA's), (62, 65750), (76, 65708), (79, 65690), (80, 65684),

Gene: Indlovu_86 Start: 66392, Stop: 66171, Start Num: 41

Candidate Starts for Indlovu_86:

(Start: 41 @66392 has 199 MA's), (77, 66266), (83, 66227), (89, 66206),

Gene: Indra_91 Start: 46788, Stop: 46630, Start Num: 41

Candidate Starts for Indra_91:

(23, 46989), (31, 46881), (Start: 41 @46788 has 199 MA's), (63, 46713), (72, 46698),

Gene: InigoMontoya_57 Start: 17126, Stop: 17266, Start Num: 48

Candidate Starts for InigoMontoya_57:

(Start: 48 @17126 has 167 MA's), (58, 17153), (76, 17222), (81, 17255),

Gene: InterFolia_65 Start: 20791, Stop: 20931, Start Num: 48

Candidate Starts for InterFolia_65:

(Start: 48 @20791 has 167 MA's), (81, 20920),

Gene: Iota_51 Start: 17323, Stop: 17463, Start Num: 48

Candidate Starts for Iota_51:

(Start: 48 @17323 has 167 MA's), (58, 17350), (81, 17452),

Gene: Iracema64_80 Start: 47690, Stop: 47520, Start Num: 41

Candidate Starts for Iracema64_80:

(6, 48029), (25, 47852), (28, 47816), (34, 47750), (Start: 41 @47690 has 199 MA's), (50, 47651), (70, 47597), (74, 47585),

Gene: Isiphiwo_82 Start: 45876, Stop: 45718, Start Num: 41

Candidate Starts for Isiphiwo_82:

(Start: 41 @45876 has 199 MA's), (49, 45843), (63, 45801), (72, 45786),

Gene: Issimir_56 Start: 18165, Stop: 18305, Start Num: 48

Candidate Starts for Issimir_56:

(Start: 48 @18165 has 167 MA's),

Gene: Izajani_58 Start: 18235, Stop: 18375, Start Num: 48

Candidate Starts for Izajani_58:

(Start: 48 @18235 has 167 MA's), (58, 18262), (81, 18364),

Gene: JAMaL_87 Start: 65869, Stop: 65651, Start Num: 41

Candidate Starts for JAMaL_87:

(30, 65962), (33, 65938), (35, 65905), (Start: 41 @65869 has 199 MA's), (55, 65821), (59, 65800), (69, 65770), (84, 65692),

Gene: JPickles_54 Start: 16359, Stop: 16499, Start Num: 48

Candidate Starts for JPickles_54:

(Start: 48 @16359 has 167 MA's), (58, 16386), (76, 16455), (81, 16488),

Gene: Jaan_78 Start: 47674, Stop: 47534, Start Num: 52

Candidate Starts for Jaan_78:

(43, 47704), (Start: 52 @47674 has 1 MA's), (68, 47617),

Gene: Janiyra_58 Start: 17925, Stop: 18065, Start Num: 48

Candidate Starts for Janiyra_58:

(Start: 48 @17925 has 167 MA's), (58, 17952), (81, 18054),

Gene: JayJay_60 Start: 18713, Stop: 18853, Start Num: 48

Candidate Starts for JayJay_60:

(Start: 48 @18713 has 167 MA's), (81, 18842),

Gene: Jaygup_56 Start: 17161, Stop: 17301, Start Num: 48

Candidate Starts for Jaygup_56:
(Start: 48 @17161 has 167 MA's), (81, 17290),

Gene: Jaykayelowell_77 Start: 47419, Stop: 47249, Start Num: 41
Candidate Starts for Jaykayelowell_77:
(4, 47800), (6, 47758), (21, 47623), (25, 47581), (28, 47545), (34, 47479), (Start: 41 @47419 has 199 MA's), (50, 47380), (70, 47326), (74, 47314),

Gene: Jedediah_57 Start: 17662, Stop: 17802, Start Num: 48
Candidate Starts for Jedediah_57:
(Start: 48 @17662 has 167 MA's), (81, 17791),

Gene: Jemmno_56 Start: 17165, Stop: 17305, Start Num: 48
Candidate Starts for Jemmno_56:
(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Jeon_82 Start: 58513, Stop: 58695, Start Num: 41
Candidate Starts for Jeon_82:
(37, 58492), (38, 58495), (Start: 41 @58513 has 199 MA's), (54, 58561), (Start: 56 @58567 has 1 MA's), (66, 58597), (69, 58603), (74, 58615), (76, 58636),

Gene: Jessibeth14_55 Start: 17623, Stop: 17763, Start Num: 48
Candidate Starts for Jessibeth14_55:
(Start: 48 @17623 has 167 MA's), (58, 17650), (81, 17752),

Gene: JetBlade_81 Start: 47454, Stop: 47284, Start Num: 41
Candidate Starts for JetBlade_81:
(4, 47835), (6, 47793), (21, 47658), (25, 47616), (28, 47580), (34, 47514), (Start: 41 @47454 has 199 MA's), (50, 47415), (70, 47361), (74, 47349),

Gene: JewelBug_78 Start: 44643, Stop: 44485, Start Num: 41
Candidate Starts for JewelBug_78:
(23, 44844), (31, 44736), (Start: 41 @44643 has 199 MA's), (63, 44568), (72, 44553),

Gene: Jolie1_087 Start: 65336, Stop: 65139, Start Num: 41
Candidate Starts for Jolie1_087:
(Start: 39 @65348 has 2 MA's), (Start: 41 @65336 has 199 MA's), (Start: 56 @65288 has 1 MA's), (79, 65195),

Gene: JoongJeon_79 Start: 47420, Stop: 47250, Start Num: 41
Candidate Starts for JoongJeon_79:
(6, 47759), (25, 47582), (28, 47546), (34, 47480), (Start: 41 @47420 has 199 MA's), (50, 47381), (70, 47327), (74, 47315),

Gene: Jordennis_84 Start: 46547, Stop: 46389, Start Num: 41
Candidate Starts for Jordennis_84:
(23, 46748), (31, 46640), (Start: 41 @46547 has 199 MA's), (63, 46472), (72, 46457),

Gene: JulietS_51 Start: 16120, Stop: 16260, Start Num: 48
Candidate Starts for JulietS_51:
(Start: 48 @16120 has 167 MA's), (58, 16147), (81, 16249),

Gene: JustHall_52 Start: 17484, Stop: 17624, Start Num: 48

Candidate Starts for JustHall_52:

(Start: 48 @17484 has 167 MA's), (58, 17511), (76, 17580), (81, 17613),

Gene: KFPoly_79 Start: 47420, Stop: 47250, Start Num: 41

Candidate Starts for KFPoly_79:

(6, 47759), (25, 47582), (28, 47546), (34, 47480), (Start: 41 @47420 has 199 MA's), (50, 47381), (70, 47327), (74, 47315),

Gene: Kamy_79 Start: 47429, Stop: 47259, Start Num: 41

Candidate Starts for Kamy_79:

(6, 47768), (25, 47591), (28, 47555), (34, 47489), (Start: 41 @47429 has 199 MA's), (50, 47390), (70, 47336), (74, 47324),

Gene: Kamryn_56 Start: 17838, Stop: 17978, Start Num: 48

Candidate Starts for Kamryn_56:

(26, 17649), (Start: 48 @17838 has 167 MA's), (58, 17865), (81, 17967),

Gene: KayaCho_85 Start: 65227, Stop: 65030, Start Num: 41

Candidate Starts for KayaCho_85:

(Start: 41 @65227 has 199 MA's), (Start: 56 @65179 has 1 MA's), (79, 65086), (87, 65050),

Gene: Kazan_87 Start: 46320, Stop: 46162, Start Num: 41

Candidate Starts for Kazan_87:

(Start: 41 @46320 has 199 MA's), (49, 46287), (63, 46245), (72, 46230),

Gene: Kboogie_57 Start: 17151, Stop: 17291, Start Num: 48

Candidate Starts for Kboogie_57:

(Start: 48 @17151 has 167 MA's),

Gene: Khaleesi_56 Start: 17969, Stop: 18109, Start Num: 48

Candidate Starts for Khaleesi_56:

(Start: 48 @17969 has 167 MA's),

Gene: Kingmustik0402_80 Start: 47415, Stop: 47245, Start Num: 41

Candidate Starts for Kingmustik0402_80:

(6, 47754), (25, 47577), (28, 47541), (34, 47475), (Start: 41 @47415 has 199 MA's), (50, 47376), (70, 47322), (74, 47310),

Gene: Kipper29_86 Start: 46323, Stop: 46165, Start Num: 41

Candidate Starts for Kipper29_86:

(Start: 41 @46323 has 199 MA's), (63, 46248), (72, 46233),

Gene: Knocker_86 Start: 66737, Stop: 66540, Start Num: 41

Candidate Starts for Knocker_86:

(17, 66950), (Start: 41 @66737 has 199 MA's), (49, 66701), (Start: 56 @66689 has 1 MA's), (73, 66638), (78, 66599), (79, 66596), (85, 66566),

Gene: Koguma_53 Start: 16463, Stop: 16603, Start Num: 48

Candidate Starts for Koguma_53:

(Start: 48 @16463 has 167 MA's), (58, 16490), (81, 16592),

Gene: Koko_89 Start: 47177, Stop: 47019, Start Num: 41

Candidate Starts for Koko_89:

(23, 47378), (31, 47270), (Start: 41 @47177 has 199 MA's), (63, 47102), (72, 47087),

Gene: Koreni_79 Start: 47107, Stop: 46937, Start Num: 41

Candidate Starts for Koreni_79:

(6, 47446), (25, 47269), (28, 47233), (34, 47167), (Start: 41 @47107 has 199 MA's), (50, 47068), (70, 47014), (74, 47002),

Gene: Kratak_79 Start: 47460, Stop: 47290, Start Num: 41

Candidate Starts for Kratak_79:

(6, 47799), (25, 47622), (28, 47586), (34, 47520), (Start: 41 @47460 has 199 MA's), (50, 47421), (70, 47367), (74, 47355),

Gene: Kremtemulon_74 Start: 47306, Stop: 47136, Start Num: 41

Candidate Starts for Kremtemulon_74:

(6, 47645), (25, 47468), (28, 47432), (34, 47366), (Start: 41 @47306 has 199 MA's), (50, 47267), (70, 47213), (74, 47201),

Gene: Kyee_80 Start: 47421, Stop: 47251, Start Num: 41

Candidate Starts for Kyee_80:

(6, 47760), (25, 47583), (28, 47547), (34, 47481), (Start: 41 @47421 has 199 MA's), (50, 47382), (70, 47328), (74, 47316),

Gene: LHTSCC_82 Start: 47866, Stop: 47696, Start Num: 41

Candidate Starts for LHTSCC_82:

(2, 48277), (6, 48205), (25, 48028), (28, 47992), (34, 47926), (Start: 41 @47866 has 199 MA's), (50, 47827), (70, 47773), (74, 47761),

Gene: LRRHood_53 Start: 18386, Stop: 18526, Start Num: 48

Candidate Starts for LRRHood_53:

(Start: 48 @18386 has 167 MA's), (58, 18413), (81, 18515),

Gene: Landor_78 Start: 47601, Stop: 47461, Start Num: 51

Candidate Starts for Landor_78:

(3, 48036), (7, 47991), (8, 47973), (10, 47949), (16, 47895), (27, 47778), (32, 47721), (36, 47670), (Start: 51 @47601 has 1 MA's), (68, 47544),

Gene: LappelDuVide_76 Start: 47426, Stop: 47256, Start Num: 41

Candidate Starts for LappelDuVide_76:

(4, 47807), (6, 47765), (21, 47630), (25, 47588), (28, 47552), (34, 47486), (Start: 41 @47426 has 199 MA's), (50, 47387), (70, 47333), (74, 47321),

Gene: Latch_56 Start: 17165, Stop: 17305, Start Num: 48

Candidate Starts for Latch_56:

(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Lee7_55 Start: 17900, Stop: 18040, Start Num: 48

Candidate Starts for Lee7_55:

(Start: 48 @17900 has 167 MA's),

Gene: Lemur_80 Start: 47423, Stop: 47253, Start Num: 41

Candidate Starts for Lemur_80:

(6, 47762), (25, 47585), (28, 47549), (34, 47483), (Start: 41 @47423 has 199 MA's), (50, 47384), (70, 47330), (74, 47318),

Gene: LifeSavor_56 Start: 16884, Stop: 17024, Start Num: 48

Candidate Starts for LifeSavor_56:

(Start: 48 @16884 has 167 MA's), (81, 17013),

Gene: LilMcDreamy_86 Start: 65203, Stop: 64979, Start Num: 41

Candidate Starts for LilMcDreamy_86:

(Start: 41 @65203 has 199 MA's), (Start: 56 @65155 has 1 MA's), (74, 65092),

Gene: Lilbeanie_10 Start: 4272, Stop: 4433, Start Num: 41

Candidate Starts for Lilbeanie_10:

(Start: 41 @4272 has 199 MA's),

Gene: Lilbunny_85 Start: 46419, Stop: 46261, Start Num: 41

Candidate Starts for Lilbunny_85:

(31, 46512), (Start: 41 @46419 has 199 MA's), (45, 46401), (49, 46386), (63, 46344), (72, 46329), (76, 46299),

Gene: LilhomieP_144 Start: 74263, Stop: 74102, Start Num: 41

Candidate Starts for LilhomieP_144:

(Start: 41 @74263 has 199 MA's), (49, 74227), (61, 74197), (72, 74179), (73, 74173), (82, 74113),

Gene: LinStu_58 Start: 18972, Stop: 19112, Start Num: 48

Candidate Starts for LinStu_58:

(Start: 48 @18972 has 167 MA's), (58, 18999), (81, 19101),

Gene: LittleB_80 Start: 47427, Stop: 47257, Start Num: 41

Candidate Starts for LittleB_80:

(6, 47766), (25, 47589), (28, 47553), (34, 47487), (Start: 41 @47427 has 199 MA's), (50, 47388), (59, 47364), (70, 47334), (74, 47322),

Gene: LittleGuy_80 Start: 47311, Stop: 47141, Start Num: 41

Candidate Starts for LittleGuy_80:

(6, 47650), (25, 47473), (28, 47437), (34, 47371), (Start: 41 @47311 has 199 MA's), (50, 47272), (70, 47218), (74, 47206),

Gene: Littleton_56 Start: 17165, Stop: 17305, Start Num: 48

Candidate Starts for Littleton_56:

(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Loanshark_57 Start: 18222, Stop: 18362, Start Num: 48

Candidate Starts for Loanshark_57:

(Start: 48 @18222 has 167 MA's),

Gene: LochMonster_81 Start: 47663, Stop: 47493, Start Num: 41

Candidate Starts for LochMonster_81:

(6, 48002), (25, 47825), (28, 47789), (34, 47723), (Start: 41 @47663 has 199 MA's), (50, 47624), (70, 47570), (74, 47558),

Gene: LolaVinca_60 Start: 19380, Stop: 19520, Start Num: 48

Candidate Starts for LolaVinca_60:

(Start: 48 @19380 has 167 MA's), (81, 19509),

Gene: LordLeafolot_62 Start: 19735, Stop: 19875, Start Num: 48
Candidate Starts for LordLeafolot_62:
(Start: 48 @19735 has 167 MA's),

Gene: Lorenzo_80 Start: 47424, Stop: 47254, Start Num: 41
Candidate Starts for Lorenzo_80:
(6, 47763), (25, 47586), (28, 47550), (34, 47484), (Start: 41 @47424 has 199 MA's), (50, 47385), (70, 47331), (74, 47319),

Gene: Lucyedi_84 Start: 48006, Stop: 47845, Start Num: 41
Candidate Starts for Lucyedi_84:
(Start: 41 @48006 has 199 MA's), (63, 47931), (72, 47916), (79, 47868),

Gene: Lukilu_50 Start: 17588, Stop: 17728, Start Num: 48
Candidate Starts for Lukilu_50:
(Start: 48 @17588 has 167 MA's), (58, 17615), (81, 17717),

Gene: Lunsford_80 Start: 47419, Stop: 47249, Start Num: 41
Candidate Starts for Lunsford_80:
(4, 47800), (6, 47758), (21, 47623), (25, 47581), (28, 47545), (34, 47479), (Start: 41 @47419 has 199 MA's), (50, 47380), (70, 47326), (74, 47314),

Gene: Maby2021_57 Start: 17903, Stop: 18043, Start Num: 48
Candidate Starts for Maby2021_57:
(Start: 48 @17903 has 167 MA's),

Gene: Mangeria_60 Start: 19250, Stop: 19390, Start Num: 48
Candidate Starts for Mangeria_60:
(Start: 48 @19250 has 167 MA's), (76, 19346), (81, 19379),

Gene: Matsumoto_55 Start: 17126, Stop: 17266, Start Num: 48
Candidate Starts for Matsumoto_55:
(Start: 48 @17126 has 167 MA's), (81, 17255),

Gene: Maverick_79 Start: 47423, Stop: 47253, Start Num: 41
Candidate Starts for Maverick_79:
(6, 47762), (25, 47585), (28, 47549), (34, 47483), (Start: 41 @47423 has 199 MA's), (50, 47384), (70, 47330), (74, 47318),

Gene: Maxo_82 Start: 47429, Stop: 47259, Start Num: 41
Candidate Starts for Maxo_82:
(6, 47768), (25, 47591), (28, 47555), (34, 47489), (Start: 41 @47429 has 199 MA's), (50, 47390), (70, 47336), (74, 47324),

Gene: Mazhar510_80 Start: 47424, Stop: 47254, Start Num: 41
Candidate Starts for Mazhar510_80:
(6, 47763), (25, 47586), (28, 47550), (34, 47484), (Start: 41 @47424 has 199 MA's), (50, 47385), (70, 47331), (74, 47319),

Gene: McFly_86 Start: 46659, Stop: 46501, Start Num: 41
Candidate Starts for McFly_86:
(Start: 41 @46659 has 199 MA's), (63, 46584), (72, 46569),

Gene: McGee_55 Start: 16349, Stop: 16489, Start Num: 48
Candidate Starts for McGee_55:
(Start: 48 @16349 has 167 MA's), (58, 16376), (76, 16445), (81, 16478),

Gene: McWolfish_55 Start: 17650, Stop: 17790, Start Num: 48
Candidate Starts for McWolfish_55:
(Start: 48 @17650 has 167 MA's),

Gene: Medusa_79 Start: 47439, Stop: 47269, Start Num: 41
Candidate Starts for Medusa_79:
(6, 47778), (25, 47601), (28, 47565), (34, 47499), (Start: 41 @47439 has 199 MA's), (50, 47400), (70, 47346), (74, 47334),

Gene: MeeZee_79 Start: 47420, Stop: 47250, Start Num: 41
Candidate Starts for MeeZee_79:
(6, 47759), (25, 47582), (28, 47546), (34, 47480), (Start: 41 @47420 has 199 MA's), (50, 47381), (70, 47327), (74, 47315),

Gene: Megabear_85 Start: 58166, Stop: 58348, Start Num: 41
Candidate Starts for Megabear_85:
(37, 58145), (Start: 41 @58166 has 199 MA's), (54, 58214), (Start: 56 @58220 has 1 MA's), (66, 58250), (69, 58256), (74, 58268), (76, 58289),

Gene: Megamind_56 Start: 17888, Stop: 18028, Start Num: 48
Candidate Starts for Megamind_56:
(Start: 48 @17888 has 167 MA's),

Gene: Melpomini_52 Start: 16576, Stop: 16716, Start Num: 48
Candidate Starts for Melpomini_52:
(Start: 48 @16576 has 167 MA's), (81, 16705),

Gene: Melvin_82 Start: 47421, Stop: 47251, Start Num: 41
Candidate Starts for Melvin_82:
(6, 47760), (25, 47583), (28, 47547), (34, 47481), (Start: 41 @47421 has 199 MA's), (50, 47382), (70, 47328), (74, 47316),

Gene: MikeLiesIn_57 Start: 18235, Stop: 18375, Start Num: 48
Candidate Starts for MikeLiesIn_57:
(Start: 48 @18235 has 167 MA's),

Gene: Mikro_55 Start: 18709, Stop: 18849, Start Num: 48
Candidate Starts for Mikro_55:
(Start: 48 @18709 has 167 MA's),

Gene: Millski_79 Start: 47427, Stop: 47257, Start Num: 41
Candidate Starts for Millski_79:
(6, 47766), (25, 47589), (28, 47553), (34, 47487), (Start: 41 @47427 has 199 MA's), (50, 47388), (70, 47334), (74, 47322),

Gene: MoMoMixon_57 Start: 18317, Stop: 18457, Start Num: 48
Candidate Starts for MoMoMixon_57:
(Start: 48 @18317 has 167 MA's), (58, 18344), (81, 18446),

Gene: Momo_55 Start: 17165, Stop: 17305, Start Num: 48
Candidate Starts for Momo_55:
(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Morizzled23_59 Start: 18311, Stop: 18451, Start Num: 48
Candidate Starts for Morizzled23_59:
(Start: 48 @18311 has 167 MA's), (81, 18440),

Gene: Morrow_82 Start: 47466, Stop: 47296, Start Num: 41
Candidate Starts for Morrow_82:
(4, 47847), (6, 47805), (21, 47670), (25, 47628), (28, 47592), (34, 47526), (Start: 41 @47466 has 199 MA's), (50, 47427), (70, 47373), (74, 47361),

Gene: Mysterious_88 Start: 64978, Stop: 64736, Start Num: 41
Candidate Starts for Mysterious_88:
(Start: 41 @64978 has 199 MA's), (69, 64864), (75, 64849),

Gene: Naija_55 Start: 17165, Stop: 17305, Start Num: 48
Candidate Starts for Naija_55:
(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Nanao_86 Start: 65195, Stop: 64962, Start Num: 41
Candidate Starts for Nanao_86:
(30, 65288), (35, 65231), (Start: 41 @65195 has 199 MA's), (55, 65147), (59, 65126), (69, 65096), (79, 65045),

Gene: Nangang_88 Start: 65412, Stop: 65194, Start Num: 41
Candidate Starts for Nangang_88:
(Start: 41 @65412 has 199 MA's), (49, 65376), (54, 65361),

Gene: Napoleon13_54 Start: 16561, Stop: 16701, Start Num: 48
Candidate Starts for Napoleon13_54:
(Start: 48 @16561 has 167 MA's),

Gene: Nappy_59 Start: 18520, Stop: 18660, Start Num: 48
Candidate Starts for Nappy_59:
(Start: 48 @18520 has 167 MA's), (81, 18649),

Gene: Naval22_63 Start: 19245, Stop: 19385, Start Num: 48
Candidate Starts for Naval22_63:
(Start: 48 @19245 has 167 MA's),

Gene: Nebs_81 Start: 47466, Stop: 47296, Start Num: 41
Candidate Starts for Nebs_81:
(6, 47805), (25, 47628), (28, 47592), (34, 47526), (Start: 41 @47466 has 199 MA's), (50, 47427), (70, 47373), (74, 47361),

Gene: NedWong_58 Start: 18222, Stop: 18362, Start Num: 48
Candidate Starts for NedWong_58:
(Start: 48 @18222 has 167 MA's),

Gene: Nedarya_83 Start: 46655, Stop: 46488, Start Num: 41
Candidate Starts for Nedarya_83:

(Start: 41 @46655 has 199 MA's),

Gene: Neeharika16_85 Start: 46409, Stop: 46251, Start Num: 41

Candidate Starts for Neeharika16_85:

(23, 46610), (31, 46502), (Start: 41 @46409 has 199 MA's), (63, 46334), (72, 46319),

Gene: Nemo27_79 Start: 47422, Stop: 47252, Start Num: 41

Candidate Starts for Nemo27_79:

(6, 47761), (25, 47584), (28, 47548), (34, 47482), (Start: 41 @47422 has 199 MA's), (50, 47383), (70, 47329), (74, 47317),

Gene: Newrala_85 Start: 46755, Stop: 46597, Start Num: 41

Candidate Starts for Newrala_85:

(23, 46956), (31, 46848), (Start: 41 @46755 has 199 MA's), (63, 46680), (72, 46665),

Gene: Ngannou_51 Start: 16147, Stop: 16287, Start Num: 48

Candidate Starts for Ngannou_51:

(Start: 48 @16147 has 167 MA's), (58, 16174), (76, 16243), (81, 16276),

Gene: Nidhogg_57 Start: 18073, Stop: 18213, Start Num: 48

Candidate Starts for Nidhogg_57:

(Start: 48 @18073 has 167 MA's), (58, 18100), (81, 18202),

Gene: NoodleTree_57 Start: 18143, Stop: 18283, Start Num: 48

Candidate Starts for NoodleTree_57:

(Start: 48 @18143 has 167 MA's), (58, 18170), (81, 18272),

Gene: Norm_57 Start: 18223, Stop: 18363, Start Num: 48

Candidate Starts for Norm_57:

(Start: 48 @18223 has 167 MA's),

Gene: NorthStar_77 Start: 47426, Stop: 47256, Start Num: 41

Candidate Starts for NorthStar_77:

(6, 47765), (25, 47588), (28, 47552), (34, 47486), (Start: 41 @47426 has 199 MA's), (50, 47387), (70, 47333), (74, 47321),

Gene: NotAPhaseMom_79 Start: 47427, Stop: 47257, Start Num: 41

Candidate Starts for NotAPhaseMom_79:

(6, 47766), (25, 47589), (28, 47553), (34, 47487), (Start: 41 @47427 has 199 MA's), (50, 47388), (70, 47334), (74, 47322),

Gene: NuevoMundo_62 Start: 19221, Stop: 19361, Start Num: 48

Candidate Starts for NuevoMundo_62:

(Start: 48 @19221 has 167 MA's), (81, 19350),

Gene: Nyxis_79 Start: 47305, Stop: 47135, Start Num: 41

Candidate Starts for Nyxis_79:

(6, 47644), (25, 47467), (28, 47431), (34, 47365), (Start: 41 @47305 has 199 MA's), (50, 47266), (70, 47212), (74, 47200),

Gene: OKaNui_79 Start: 47477, Stop: 47307, Start Num: 41

Candidate Starts for OKaNui_79:

(6, 47816), (25, 47639), (28, 47603), (34, 47537), (Start: 41 @47477 has 199 MA's), (50, 47438), (70, 47384), (74, 47372),

Gene: Obama12_81 Start: 47850, Stop: 47680, Start Num: 41

Candidate Starts for Obama12_81:

(2, 48261), (6, 48189), (25, 48012), (28, 47976), (34, 47910), (Start: 41 @47850 has 199 MA's), (50, 47811), (70, 47757), (74, 47745),

Gene: Ohfah_81 Start: 47466, Stop: 47296, Start Num: 41

Candidate Starts for Ohfah_81:

(6, 47805), (25, 47628), (28, 47592), (34, 47526), (Start: 41 @47466 has 199 MA's), (50, 47427), (70, 47373), (74, 47361),

Gene: PR_86 Start: 58854, Stop: 59036, Start Num: 41

Candidate Starts for PR_86:

(37, 58833), (Start: 41 @58854 has 199 MA's), (54, 58902), (Start: 56 @58908 has 1 MA's), (66, 58938), (69, 58944), (74, 58956), (76, 58977),

Gene: Palestino_79 Start: 47423, Stop: 47253, Start Num: 41

Candidate Starts for Palestino_79:

(6, 47762), (25, 47585), (28, 47549), (34, 47483), (Start: 41 @47423 has 199 MA's), (50, 47384), (70, 47330), (74, 47318),

Gene: ParkTD_56 Start: 18222, Stop: 18362, Start Num: 48

Candidate Starts for ParkTD_56:

(Start: 48 @18222 has 167 MA's),

Gene: Patter_56 Start: 17182, Stop: 17322, Start Num: 48

Candidate Starts for Patter_56:

(Start: 48 @17182 has 167 MA's), (58, 17209), (76, 17278), (81, 17311),

Gene: Peaches_78 Start: 47425, Stop: 47255, Start Num: 41

Candidate Starts for Peaches_78:

(6, 47764), (25, 47587), (28, 47551), (34, 47485), (Start: 41 @47425 has 199 MA's), (50, 47386), (70, 47332), (74, 47320),

Gene: PegLeg_148 Start: 74147, Stop: 73986, Start Num: 41

Candidate Starts for PegLeg_148:

(Start: 41 @74147 has 199 MA's), (49, 74111), (61, 74081), (72, 74063), (73, 74057), (82, 73997),

Gene: PeterPeter_80 Start: 47420, Stop: 47250, Start Num: 41

Candidate Starts for PeterPeter_80:

(6, 47759), (25, 47582), (28, 47546), (34, 47480), (Start: 41 @47420 has 199 MA's), (50, 47381), (70, 47327), (74, 47315),

Gene: Phabba_14 Start: 5257, Stop: 5442, Start Num: 56

Candidate Starts for Phabba_14:

(Start: 56 @5257 has 1 MA's),

Gene: Phacado_80 Start: 47422, Stop: 47252, Start Num: 41

Candidate Starts for Phacado_80:

(6, 47761), (25, 47584), (28, 47548), (34, 47482), (Start: 41 @47422 has 199 MA's), (50, 47383), (70, 47329), (74, 47317),

Gene: Phelemich_84 Start: 64879, Stop: 64661, Start Num: 41
Candidate Starts for Phelemich_84:
(Start: 41 @64879 has 199 MA's), (54, 64828), (75, 64774),

Gene: Phighter1804_80 Start: 47487, Stop: 47317, Start Num: 41
Candidate Starts for Phighter1804_80:
(6, 47826), (25, 47649), (28, 47613), (34, 47547), (Start: 41 @47487 has 199 MA's), (50, 47448), (70, 47394), (74, 47382),

Gene: Phlegm_58 Start: 17165, Stop: 17305, Start Num: 48
Candidate Starts for Phlegm_58:
(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Phontbonne_80 Start: 47321, Stop: 47151, Start Num: 41
Candidate Starts for Phontbonne_80:
(6, 47660), (25, 47483), (28, 47447), (34, 47381), (Start: 41 @47321 has 199 MA's), (50, 47282), (70, 47228), (74, 47216),

Gene: Phox_55 Start: 19068, Stop: 19208, Start Num: 48
Candidate Starts for Phox_55:
(Start: 48 @19068 has 167 MA's), (58, 19095), (81, 19197),

Gene: Phrappuccino_91 Start: 70787, Stop: 70966, Start Num: 39
Candidate Starts for Phrappuccino_91:
(Start: 39 @70787 has 2 MA's), (Start: 41 @70799 has 199 MA's), (Start: 56 @70844 has 1 MA's), (57, 70847), (76, 70922), (79, 70940),

Gene: Phusco_56 Start: 17975, Stop: 18115, Start Num: 48
Candidate Starts for Phusco_56:
(Start: 48 @17975 has 167 MA's), (81, 18104),

Gene: Pier_59 Start: 18039, Stop: 18179, Start Num: 48
Candidate Starts for Pier_59:
(Start: 48 @18039 has 167 MA's), (81, 18168),

Gene: Pinkcreek_49 Start: 16524, Stop: 16664, Start Num: 48
Candidate Starts for Pinkcreek_49:
(Start: 48 @16524 has 167 MA's),

Gene: Pio_61 Start: 19373, Stop: 19513, Start Num: 48
Candidate Starts for Pio_61:
(Start: 48 @19373 has 167 MA's), (81, 19502),

Gene: Pipcraft_76 Start: 47427, Stop: 47257, Start Num: 41
Candidate Starts for Pipcraft_76:
(6, 47766), (25, 47589), (28, 47553), (34, 47487), (Start: 41 @47427 has 199 MA's), (50, 47388), (70, 47334), (74, 47322),

Gene: Pivoine_55 Start: 17165, Stop: 17305, Start Num: 48
Candidate Starts for Pivoine_55:
(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Pleione_59 Start: 18221, Stop: 18361, Start Num: 48
Candidate Starts for Pleione_59:
(Start: 48 @18221 has 167 MA's),

Gene: Pmask_85 Start: 46956, Stop: 46798, Start Num: 41
Candidate Starts for Pmask_85:
(23, 47157), (31, 47049), (Start: 41 @46956 has 199 MA's), (63, 46881), (72, 46866),

Gene: Polymorphads_81 Start: 47447, Stop: 47277, Start Num: 41
Candidate Starts for Polymorphads_81:
(4, 47828), (6, 47786), (21, 47651), (25, 47609), (28, 47573), (34, 47507), (Start: 41 @47447 has 199 MA's), (50, 47408), (70, 47354), (74, 47342),

Gene: Poster_85 Start: 65196, Stop: 64963, Start Num: 41
Candidate Starts for Poster_85:
(30, 65289), (35, 65232), (Start: 41 @65196 has 199 MA's), (55, 65148), (59, 65127), (69, 65097), (79, 65046),

Gene: Priamo_87 Start: 46200, Stop: 46042, Start Num: 41
Candidate Starts for Priamo_87:
(Start: 41 @46200 has 199 MA's), (49, 46167), (63, 46125), (72, 46110),

Gene: Pumbaa_80 Start: 47371, Stop: 47201, Start Num: 41
Candidate Starts for Pumbaa_80:
(4, 47752), (6, 47710), (21, 47575), (25, 47533), (28, 47497), (34, 47431), (Start: 41 @47371 has 199 MA's), (50, 47332), (70, 47278), (74, 47266),

Gene: PurduePete_56 Start: 17946, Stop: 18086, Start Num: 48
Candidate Starts for PurduePete_56:
(Start: 48 @17946 has 167 MA's),

Gene: QBert_51 Start: 17952, Stop: 18092, Start Num: 48
Candidate Starts for QBert_51:
(Start: 48 @17952 has 167 MA's), (58, 17979), (81, 18081),

Gene: Quasimodo_56 Start: 18183, Stop: 18323, Start Num: 48
Candidate Starts for Quasimodo_56:
(Start: 48 @18183 has 167 MA's), (58, 18210), (76, 18279), (81, 18312),

Gene: Rabinovish_56 Start: 19242, Stop: 19382, Start Num: 48
Candidate Starts for Rabinovish_56:
(Start: 48 @19242 has 167 MA's),

Gene: Rahel_57 Start: 17534, Stop: 17674, Start Num: 48
Candidate Starts for Rahel_57:
(Start: 48 @17534 has 167 MA's), (58, 17561), (81, 17663),

Gene: RedWattleHog_148 Start: 102235, Stop: 102399, Start Num: 41
Candidate Starts for RedWattleHog_148:
(29, 102112), (Start: 40 @102229 has 1 MA's), (Start: 41 @102235 has 199 MA's), (44, 102250),

Gene: Relief_79 Start: 47423, Stop: 47253, Start Num: 41
Candidate Starts for Relief_79:

(6, 47762), (25, 47585), (28, 47549), (34, 47483), (Start: 41 @47423 has 199 MA's), (50, 47384), (70, 47330), (74, 47318),

Gene: Remus_87 Start: 46685, Stop: 46509, Start Num: 41
Candidate Starts for Remus_87:
(Start: 41 @46685 has 199 MA's), (70, 46598),

Gene: Reprobate_86 Start: 64884, Stop: 64666, Start Num: 41
Candidate Starts for Reprobate_86:
(Start: 41 @64884 has 199 MA's), (54, 64833), (75, 64779),

Gene: Rich_84 Start: 65290, Stop: 65120, Start Num: 41
Candidate Starts for Rich_84:
(38, 65308), (Start: 41 @65290 has 199 MA's), (57, 65239), (75, 65185),

Gene: Rifter_88 Start: 45967, Stop: 45809, Start Num: 41
Candidate Starts for Rifter_88:
(31, 46060), (Start: 41 @45967 has 199 MA's), (63, 45892), (72, 45877),

Gene: Rizal_55 Start: 17139, Stop: 17279, Start Num: 48
Candidate Starts for Rizal_55:
(Start: 48 @17139 has 167 MA's),

Gene: RoMag_51 Start: 17134, Stop: 17274, Start Num: 48
Candidate Starts for RoMag_51:
(Start: 48 @17134 has 167 MA's), (81, 17263),

Gene: Roksolana_88 Start: 46683, Stop: 46525, Start Num: 41
Candidate Starts for Roksolana_88:
(31, 46776), (Start: 41 @46683 has 199 MA's), (63, 46608), (72, 46593),

Gene: Romney_79 Start: 47423, Stop: 47253, Start Num: 41
Candidate Starts for Romney_79:
(6, 47762), (25, 47585), (28, 47549), (34, 47483), (Start: 41 @47423 has 199 MA's), (50, 47384), (70, 47330), (74, 47318),

Gene: Ronan_51 Start: 15885, Stop: 16025, Start Num: 48
Candidate Starts for Ronan_51:
(Start: 48 @15885 has 167 MA's), (58, 15912), (81, 16014),

Gene: Roosevelt_78 Start: 47428, Stop: 47258, Start Num: 41
Candidate Starts for Roosevelt_78:
(4, 47809), (6, 47767), (21, 47632), (25, 47590), (28, 47554), (34, 47488), (Start: 41 @47428 has 199 MA's), (50, 47389), (70, 47335), (74, 47323),

Gene: Roots515_56 Start: 18020, Stop: 18160, Start Num: 48
Candidate Starts for Roots515_56:
(Start: 48 @18020 has 167 MA's), (81, 18149),

Gene: Rosalind_85 Start: 46579, Stop: 46403, Start Num: 41
Candidate Starts for Rosalind_85:
(Start: 41 @46579 has 199 MA's), (70, 46492),

Gene: Ruin_80 Start: 47419, Stop: 47249, Start Num: 41

Candidate Starts for Ruin_80:

(6, 47758), (25, 47581), (28, 47545), (34, 47479), (Start: 41 @47419 has 199 MA's), (50, 47380), (70, 47326), (74, 47314),

Gene: Sabertooth_80 Start: 47431, Stop: 47261, Start Num: 41

Candidate Starts for Sabertooth_80:

(4, 47812), (6, 47770), (25, 47593), (28, 47557), (34, 47491), (Start: 41 @47431 has 199 MA's), (50, 47392), (70, 47338), (74, 47326),

Gene: Saguaro_80 Start: 63591, Stop: 63397, Start Num: 41

Candidate Starts for Saguaro_80:

(Start: 41 @63591 has 199 MA's), (53, 63552), (59, 63525), (67, 63501), (79, 63450), (82, 63432),

Gene: Salacia_59 Start: 18222, Stop: 18362, Start Num: 48

Candidate Starts for Salacia_59:

(Start: 48 @18222 has 167 MA's),

Gene: Sauce_58 Start: 18161, Stop: 18301, Start Num: 48

Candidate Starts for Sauce_58:

(Start: 48 @18161 has 167 MA's), (81, 18290),

Gene: Scamp_80 Start: 47428, Stop: 47258, Start Num: 41

Candidate Starts for Scamp_80:

(6, 47767), (25, 47590), (28, 47554), (34, 47488), (Start: 41 @47428 has 199 MA's), (50, 47389), (70, 47335), (74, 47323),

Gene: ScottMcG_55 Start: 17998, Stop: 18138, Start Num: 48

Candidate Starts for ScottMcG_55:

(Start: 48 @17998 has 167 MA's), (58, 18025), (81, 18127),

Gene: Sebata_59 Start: 19091, Stop: 19231, Start Num: 48

Candidate Starts for Sebata_59:

(Start: 48 @19091 has 167 MA's), (58, 19118), (81, 19220),

Gene: Serendipitous_87 Start: 64709, Stop: 64542, Start Num: 41

Candidate Starts for Serendipitous_87:

(Start: 41 @64709 has 199 MA's),

Gene: Settecandela_91 Start: 70787, Stop: 70966, Start Num: 39

Candidate Starts for Settecandela_91:

(Start: 39 @70787 has 2 MA's), (Start: 41 @70799 has 199 MA's), (Start: 56 @70844 has 1 MA's), (57, 70847), (76, 70922), (79, 70940),

Gene: Shaka_78 Start: 47424, Stop: 47254, Start Num: 41

Candidate Starts for Shaka_78:

(4, 47805), (6, 47763), (21, 47628), (25, 47586), (28, 47550), (34, 47484), (Start: 41 @47424 has 199 MA's), (50, 47385), (70, 47331), (74, 47319),

Gene: Shaqnato_51 Start: 16808, Stop: 16948, Start Num: 48

Candidate Starts for Shaqnato_51:

(Start: 48 @16808 has 167 MA's), (58, 16835), (81, 16937),

Gene: Sheen_79 Start: 49954, Stop: 49772, Start Num: 41
Candidate Starts for Sheen_79:
(Start: 41 @49954 has 199 MA's), (64, 49858),

Gene: SheldonCooper_80 Start: 47864, Stop: 47694, Start Num: 41
Candidate Starts for SheldonCooper_80:
(6, 48203), (25, 48026), (28, 47990), (34, 47924), (Start: 41 @47864 has 199 MA's), (50, 47825), (70, 47771), (74, 47759),

Gene: Shelob_59 Start: 19331, Stop: 19471, Start Num: 48
Candidate Starts for Shelob_59:
(Start: 48 @19331 has 167 MA's), (58, 19358), (81, 19460),

Gene: ShiaLabeouf_56 Start: 17602, Stop: 17742, Start Num: 48
Candidate Starts for ShiaLabeouf_56:
(Start: 48 @17602 has 167 MA's), (81, 17731),

Gene: Shifa_50 Start: 17073, Stop: 17213, Start Num: 48
Candidate Starts for Shifa_50:
(Start: 48 @17073 has 167 MA's), (81, 17202),

Gene: Shnickers_56 Start: 17161, Stop: 17301, Start Num: 48
Candidate Starts for Shnickers_56:
(Start: 48 @17161 has 167 MA's), (81, 17290),

Gene: Shrimp_57 Start: 18226, Stop: 18366, Start Num: 48
Candidate Starts for Shrimp_57:
(Start: 48 @18226 has 167 MA's),

Gene: Shygu2_78 Start: 47370, Stop: 47200, Start Num: 41
Candidate Starts for Shygu2_78:
(6, 47709), (25, 47532), (28, 47496), (34, 47430), (Start: 41 @47370 has 199 MA's), (50, 47331), (70, 47277), (74, 47265),

Gene: SilverDipper_57 Start: 17165, Stop: 17305, Start Num: 48
Candidate Starts for SilverDipper_57:
(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: Skinny_151 Start: 75264, Stop: 75103, Start Num: 41
Candidate Starts for Skinny_151:
(Start: 41 @75264 has 199 MA's), (49, 75228), (61, 75198), (72, 75180), (73, 75174), (82, 75114),

Gene: Skipitt_79 Start: 47420, Stop: 47250, Start Num: 41
Candidate Starts for Skipitt_79:
(6, 47759), (25, 47582), (28, 47546), (34, 47480), (Start: 41 @47420 has 199 MA's), (50, 47381), (70, 47327), (74, 47315),

Gene: SlimJimmy_145 Start: 74734, Stop: 74570, Start Num: 41
Candidate Starts for SlimJimmy_145:
(Start: 41 @74734 has 199 MA's), (50, 74695),

Gene: SmallFry_56 Start: 17161, Stop: 17301, Start Num: 48
Candidate Starts for SmallFry_56:

(Start: 48 @17161 has 167 MA's), (58, 17188), (76, 17257), (81, 17290),

Gene: SmellyB_86 Start: 46314, Stop: 46156, Start Num: 41

Candidate Starts for SmellyB_86:

(Start: 41 @46314 has 199 MA's), (49, 46281), (63, 46239), (72, 46224),

Gene: Soups_86 Start: 46474, Stop: 46298, Start Num: 41

Candidate Starts for Soups_86:

(Start: 41 @46474 has 199 MA's), (70, 46387),

Gene: Sparxx_81 Start: 47422, Stop: 47252, Start Num: 41

Candidate Starts for Sparxx_81:

(4, 47803), (6, 47761), (21, 47626), (25, 47584), (28, 47548), (34, 47482), (Start: 41 @47422 has 199 MA's), (50, 47383), (70, 47329), (74, 47317),

Gene: Spec_54 Start: 17305, Stop: 17445, Start Num: 48

Candidate Starts for Spec_54:

(Start: 48 @17305 has 167 MA's), (81, 17434),

Gene: Specks_62 Start: 19814, Stop: 19954, Start Num: 48

Candidate Starts for Specks_62:

(Start: 48 @19814 has 167 MA's), (81, 19943),

Gene: Spino_79 Start: 47426, Stop: 47256, Start Num: 41

Candidate Starts for Spino_79:

(6, 47765), (25, 47588), (28, 47552), (34, 47486), (Start: 41 @47426 has 199 MA's), (50, 47387), (70, 47333), (74, 47321),

Gene: Sprinklers_53 Start: 17133, Stop: 17273, Start Num: 48

Candidate Starts for Sprinklers_53:

(Start: 48 @17133 has 167 MA's), (81, 17262),

Gene: Spud_57 Start: 18537, Stop: 18677, Start Num: 48

Candidate Starts for Spud_57:

(Start: 48 @18537 has 167 MA's),

Gene: SrishMeg2525_56 Start: 17933, Stop: 18073, Start Num: 48

Candidate Starts for SrishMeg2525_56:

(Start: 48 @17933 has 167 MA's),

Gene: Stasia_77 Start: 47383, Stop: 47213, Start Num: 41

Candidate Starts for Stasia_77:

(12, 47662), (24, 47557), (Start: 41 @47383 has 199 MA's), (50, 47344), (60, 47314), (70, 47290), (74, 47278), (76, 47257),

Gene: StephanieG_57 Start: 18533, Stop: 18673, Start Num: 48

Candidate Starts for StephanieG_57:

(Start: 48 @18533 has 167 MA's), (81, 18662),

Gene: Stinger_85 Start: 64772, Stop: 64608, Start Num: 41

Candidate Starts for Stinger_85:

(15, 65030), (18, 65009), (20, 64991), (38, 64790), (Start: 41 @64772 has 199 MA's), (65, 64700), (73, 64682),

Gene: StinkyVeggy_85 Start: 64809, Stop: 64591, Start Num: 41

Candidate Starts for StinkyVeggy_85:

(Start: 41 @64809 has 199 MA's), (49, 64773), (54, 64758),

Gene: Stormageddon_149 Start: 103193, Stop: 103363, Start Num: 40

Candidate Starts for Stormageddon_149:

(29, 103076), (Start: 40 @103193 has 1 MA's), (Start: 41 @103199 has 199 MA's), (44, 103214),

Gene: Strosahl_87 Start: 46685, Stop: 46509, Start Num: 41

Candidate Starts for Strosahl_87:

(Start: 41 @46685 has 199 MA's), (70, 46598),

Gene: Stubby_52 Start: 17855, Stop: 17995, Start Num: 48

Candidate Starts for Stubby_52:

(Start: 48 @17855 has 167 MA's),

Gene: StubbySaigey_56 Start: 16862, Stop: 17002, Start Num: 48

Candidate Starts for StubbySaigey_56:

(Start: 48 @16862 has 167 MA's),

Gene: SuperAwesome_86 Start: 46995, Stop: 46837, Start Num: 41

Candidate Starts for SuperAwesome_86:

(23, 47196), (31, 47088), (Start: 41 @46995 has 199 MA's), (63, 46920), (72, 46905),

Gene: SuperCallie99_82 Start: 46377, Stop: 46219, Start Num: 41

Candidate Starts for SuperCallie99_82:

(Start: 41 @46377 has 199 MA's), (49, 46344), (63, 46302), (72, 46287),

Gene: Taptic_88 Start: 58560, Stop: 58742, Start Num: 41

Candidate Starts for Taptic_88:

(37, 58539), (38, 58542), (Start: 41 @58560 has 199 MA's), (54, 58608), (Start: 56 @58614 has 1 MA's), (66, 58644), (69, 58650), (74, 58662), (76, 58683),

Gene: Taquarus_79 Start: 47429, Stop: 47259, Start Num: 41

Candidate Starts for Taquarus_79:

(6, 47768), (25, 47591), (28, 47555), (34, 47489), (Start: 41 @47429 has 199 MA's), (50, 47390), (70, 47336), (74, 47324),

Gene: Teardrop_56 Start: 17138, Stop: 17278, Start Num: 48

Candidate Starts for Teardrop_56:

(Start: 48 @17138 has 167 MA's), (81, 17267),

Gene: Thanksgivukkah_79 Start: 47424, Stop: 47254, Start Num: 41

Candidate Starts for Thanksgivukkah_79:

(6, 47763), (25, 47586), (28, 47550), (34, 47484), (Start: 41 @47424 has 199 MA's), (50, 47385), (70, 47331), (74, 47319),

Gene: TinaFeyge_78 Start: 47421, Stop: 47251, Start Num: 41

Candidate Starts for TinaFeyge_78:

(4, 47802), (6, 47760), (21, 47625), (25, 47583), (28, 47547), (34, 47481), (Start: 41 @47421 has 199 MA's), (50, 47382), (70, 47328), (74, 47316),

Gene: TinyTim_57 Start: 18222, Stop: 18362, Start Num: 48
Candidate Starts for TinyTim_57:
(Start: 48 @18222 has 167 MA's),

Gene: Tinybot_79 Start: 47453, Stop: 47283, Start Num: 41
Candidate Starts for Tinybot_79:
(2, 47864), (6, 47792), (25, 47615), (28, 47579), (34, 47513), (Start: 41 @47453 has 199 MA's), (50, 47414), (70, 47360), (74, 47348),

Gene: TiroTheta9_79 Start: 47420, Stop: 47250, Start Num: 41
Candidate Starts for TiroTheta9_79:
(4, 47801), (6, 47759), (21, 47624), (25, 47582), (28, 47546), (34, 47480), (Start: 41 @47420 has 199 MA's), (50, 47381), (70, 47327), (74, 47315),

Gene: ToneTone_85 Start: 46347, Stop: 46189, Start Num: 41
Candidate Starts for ToneTone_85:
(31, 46440), (Start: 41 @46347 has 199 MA's), (45, 46329), (49, 46314), (63, 46272), (72, 46257), (76, 46227),

Gene: Tonenili_66 Start: 20565, Stop: 20705, Start Num: 48
Candidate Starts for Tonenili_66:
(Start: 48 @20565 has 167 MA's),

Gene: Tortoise16_54 Start: 17669, Stop: 17809, Start Num: 48
Candidate Starts for Tortoise16_54:
(Start: 48 @17669 has 167 MA's), (81, 17798),

Gene: Trinitium_52 Start: 16623, Stop: 16763, Start Num: 48
Candidate Starts for Trinitium_52:
(Start: 48 @16623 has 167 MA's), (58, 16650), (81, 16752),

Gene: TroyPia_81 Start: 47461, Stop: 47291, Start Num: 41
Candidate Starts for TroyPia_81:
(6, 47800), (25, 47623), (28, 47587), (34, 47521), (Start: 41 @47461 has 199 MA's), (50, 47422), (70, 47368), (74, 47356),

Gene: Tucker_88 Start: 46550, Stop: 46392, Start Num: 41
Candidate Starts for Tucker_88:
(31, 46643), (Start: 41 @46550 has 199 MA's), (45, 46532), (49, 46517), (63, 46475), (72, 46460), (76, 46430),

Gene: Turret_51 Start: 16347, Stop: 16487, Start Num: 48
Candidate Starts for Turret_51:
(Start: 48 @16347 has 167 MA's), (58, 16374), (81, 16476),

Gene: TyDawg_141 Start: 74179, Stop: 74015, Start Num: 41
Candidate Starts for TyDawg_141:
(Start: 41 @74179 has 199 MA's), (50, 74140),

Gene: TygerBlood_80 Start: 47426, Stop: 47256, Start Num: 41
Candidate Starts for TygerBlood_80:
(6, 47765), (25, 47588), (28, 47552), (34, 47486), (Start: 41 @47426 has 199 MA's), (50, 47387), (70, 47333), (74, 47321),

Gene: Tyke_58 Start: 18573, Stop: 18713, Start Num: 48
Candidate Starts for Tyke_58:
(Start: 48 @18573 has 167 MA's), (58, 18600), (76, 18669), (81, 18702),

Gene: Ulysses_79 Start: 47109, Stop: 46939, Start Num: 41
Candidate Starts for Ulysses_79:
(6, 47448), (25, 47271), (28, 47235), (34, 47169), (Start: 41 @47109 has 199 MA's), (50, 47070), (70, 47016), (74, 47004),

Gene: ValleyTerrace_56 Start: 17165, Stop: 17305, Start Num: 48
Candidate Starts for ValleyTerrace_56:
(Start: 48 @17165 has 167 MA's), (58, 17192), (76, 17261), (81, 17294),

Gene: VanLee_156 Start: 79104, Stop: 78949, Start Num: 42
Candidate Starts for VanLee_156:
(Start: 42 @79104 has 1 MA's), (71, 79023),

Gene: VohminGhazi_86 Start: 46315, Stop: 46157, Start Num: 41
Candidate Starts for VohminGhazi_86:
(Start: 41 @46315 has 199 MA's), (49, 46282), (63, 46240), (72, 46225),

Gene: Wally_55 Start: 16778, Stop: 16918, Start Num: 48
Candidate Starts for Wally_55:
(Start: 48 @16778 has 167 MA's),

Gene: Wander_80 Start: 47420, Stop: 47250, Start Num: 41
Candidate Starts for Wander_80:
(6, 47759), (25, 47582), (28, 47546), (34, 47480), (Start: 41 @47420 has 199 MA's), (50, 47381), (70, 47327), (74, 47315),

Gene: Wiks_87 Start: 46418, Stop: 46260, Start Num: 41
Candidate Starts for Wiks_87:
(23, 46619), (31, 46511), (Start: 41 @46418 has 199 MA's), (63, 46343), (72, 46328),

Gene: Wilbur_80 Start: 47423, Stop: 47253, Start Num: 41
Candidate Starts for Wilbur_80:
(6, 47762), (25, 47585), (28, 47549), (34, 47483), (Start: 41 @47423 has 199 MA's), (50, 47384), (70, 47330), (74, 47318),

Gene: Willis_57 Start: 18117, Stop: 18257, Start Num: 48
Candidate Starts for Willis_57:
(Start: 48 @18117 has 167 MA's),

Gene: WunderPhul_88 Start: 46416, Stop: 46258, Start Num: 41
Candidate Starts for WunderPhul_88:
(31, 46509), (Start: 41 @46416 has 199 MA's), (63, 46341), (72, 46326),

Gene: Xena_76 Start: 47245, Stop: 47075, Start Num: 41
Candidate Starts for Xena_76:
(6, 47584), (25, 47407), (28, 47371), (34, 47305), (Start: 41 @47245 has 199 MA's), (50, 47206), (70, 47152), (73, 47143), (74, 47140),

Gene: Yassified_54 Start: 17645, Stop: 17785, Start Num: 48
Candidate Starts for Yassified_54:
(Start: 48 @17645 has 167 MA's), (58, 17672), (81, 17774),

Gene: YemiJoy2021_57 Start: 17903, Stop: 18043, Start Num: 48
Candidate Starts for YemiJoy2021_57:
(Start: 48 @17903 has 167 MA's),

Gene: YoSam321_80 Start: 47421, Stop: 47251, Start Num: 41
Candidate Starts for YoSam321_80:
(6, 47760), (25, 47583), (28, 47547), (34, 47481), (Start: 41 @47421 has 199 MA's), (50, 47382), (70, 47328), (74, 47316),

Gene: Yokurt_87 Start: 46418, Stop: 46260, Start Num: 41
Candidate Starts for Yokurt_87:
(23, 46619), (31, 46511), (Start: 41 @46418 has 199 MA's), (63, 46343), (72, 46328),

Gene: YoungMoneyMata_56 Start: 16916, Stop: 17056, Start Num: 48
Candidate Starts for YoungMoneyMata_56:
(Start: 48 @16916 has 167 MA's), (58, 16943), (76, 17012), (81, 17045),

Gene: Yucca_57 Start: 18144, Stop: 18284, Start Num: 48
Candidate Starts for Yucca_57:
(Start: 48 @18144 has 167 MA's),

Gene: Zaka_88 Start: 46418, Stop: 46260, Start Num: 41
Candidate Starts for Zaka_88:
(23, 46619), (31, 46511), (Start: 41 @46418 has 199 MA's), (63, 46343), (72, 46328),

Gene: Zalkecks_58 Start: 17907, Stop: 18047, Start Num: 48
Candidate Starts for Zalkecks_58:
(Start: 48 @17907 has 167 MA's),

Gene: Zeenon_59 Start: 18209, Stop: 18349, Start Num: 48
Candidate Starts for Zeenon_59:
(Start: 48 @18209 has 167 MA's),

Gene: Zulu_89 Start: 46796, Stop: 46638, Start Num: 41
Candidate Starts for Zulu_89:
(Start: 41 @46796 has 199 MA's), (49, 46763), (63, 46721), (72, 46706),

Gene: ZygoTaiga_57 Start: 18223, Stop: 18363, Start Num: 48
Candidate Starts for ZygoTaiga_57:
(Start: 48 @18223 has 167 MA's),