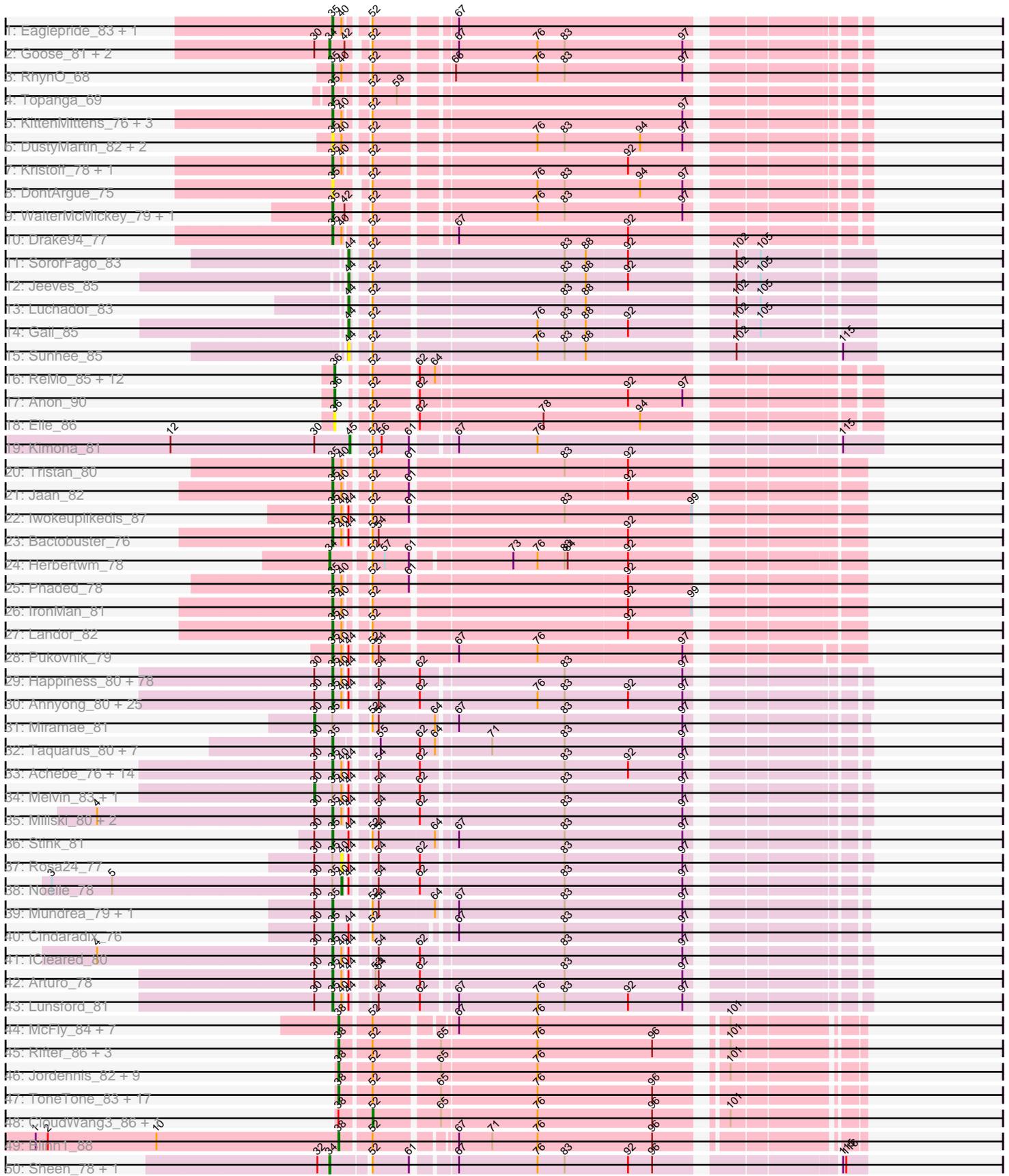
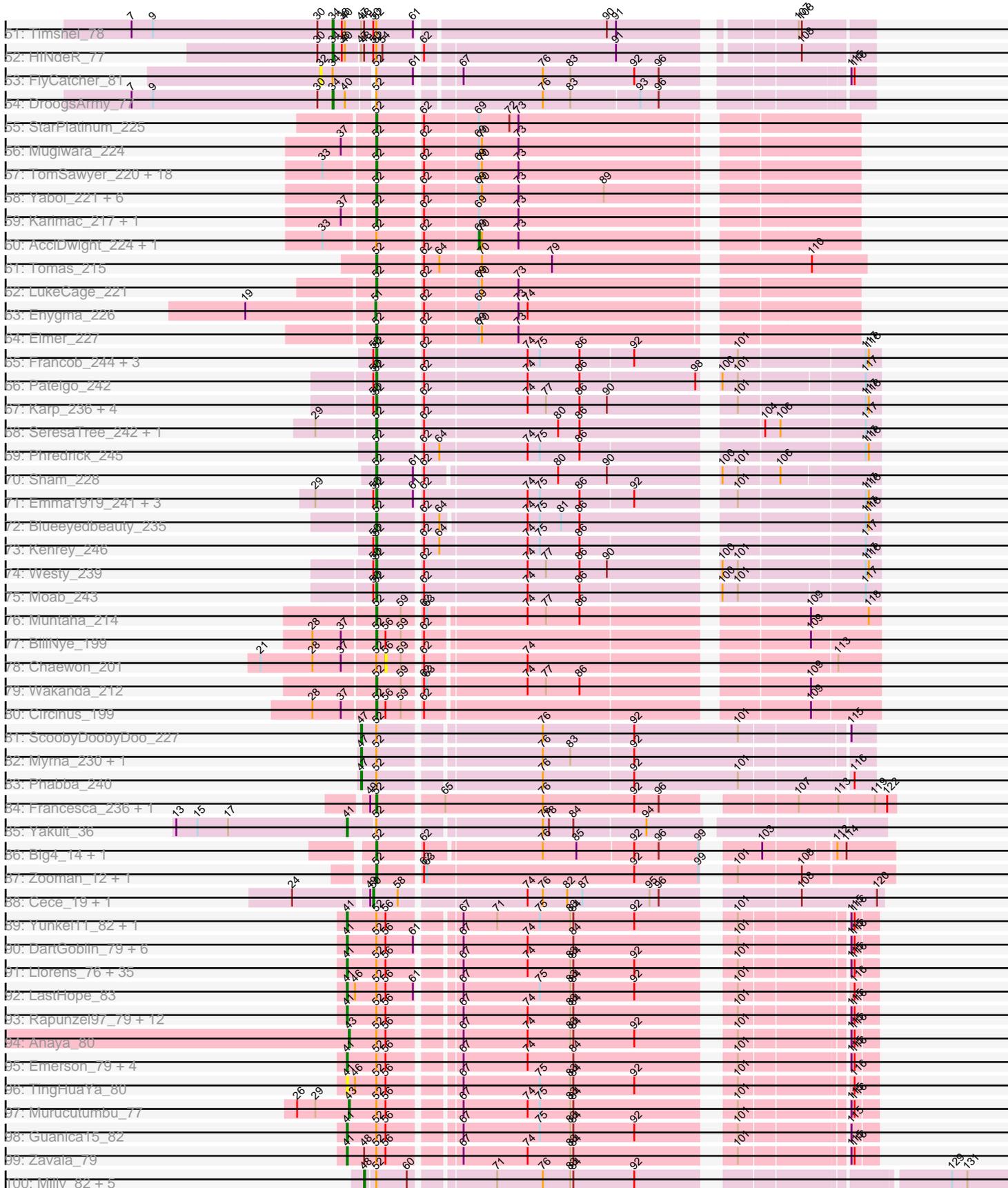


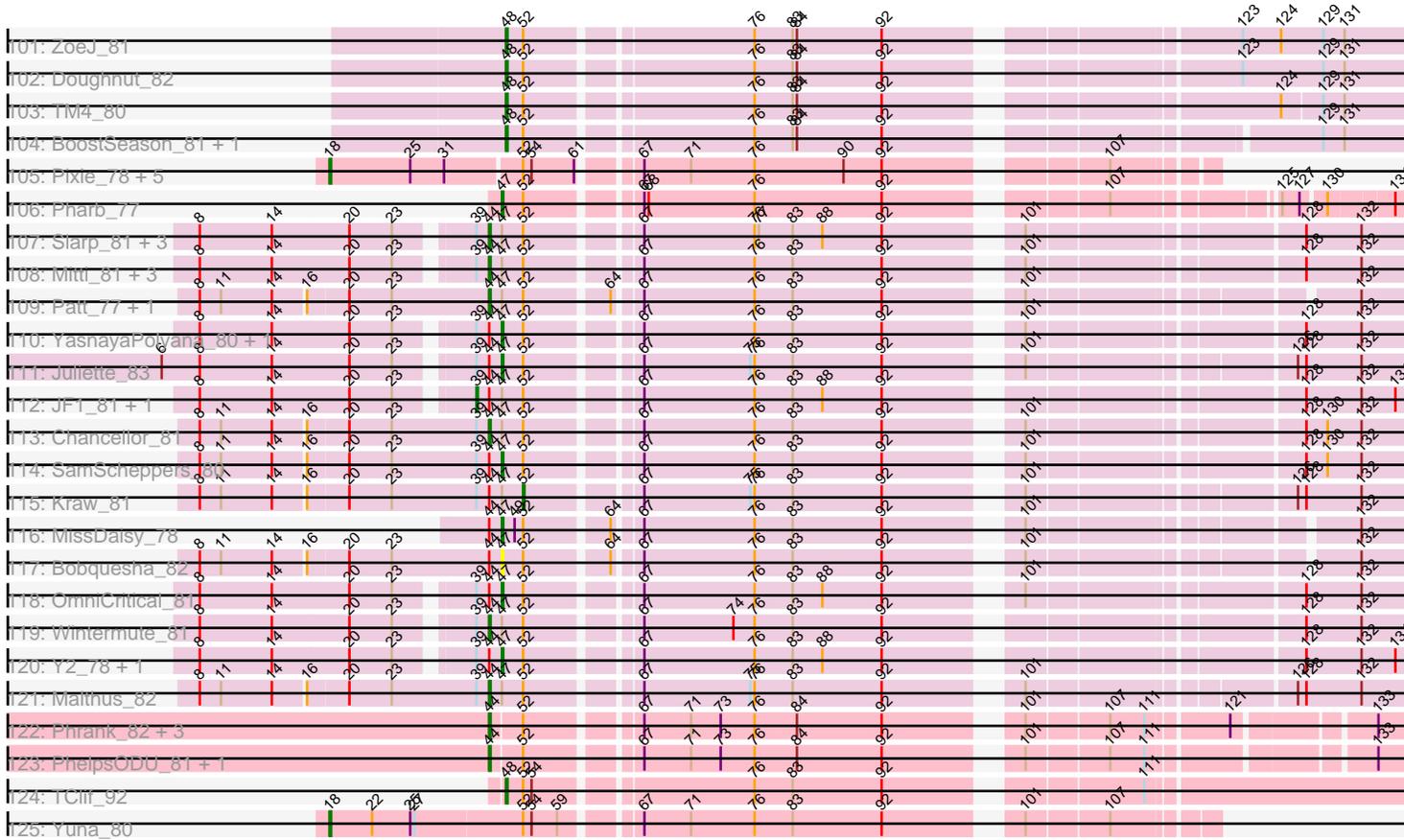
Pham 281878



Pham 281878



Pham 281878



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 281878 Report

This analysis was run 02/23/26 on database version 636.

Pham number 281878 has 438 members, 29 are drafts.

Phages represented in each track:

- Track 1 : Eaglepride_83, Stasia_78
- Track 2 : Goose_81, Chupacabra_77, OKCentral2016_79
- Track 3 : RhynO_68
- Track 4 : Topanga_69
- Track 5 : KittenMittens_76, Poompha_77, Severus_78, PeaceMeal1_77
- Track 6 : DustyMartin_82, Shapes_82, Rowdy_82
- Track 7 : Kristoff_78, Rebeuca_81
- Track 8 : DontArgue_75
- Track 9 : WalterMcMickey_79, Twister_80
- Track 10 : Drake94_77
- Track 11 : SororFago_83
- Track 12 : Jeeves_85
- Track 13 : Luchador_83
- Track 14 : Gail_85
- Track 15 : Sunhee_85
- Track 16 : ReMo_85, MinecraftSteve_88, ShayRa_85, Boohoo_86, Battleship_90, Switzerland_85, LastResort_85, Anaysia_87, JSwag_87, KatherineG_87, Waits_87, DekHockey33_89, Nebulosus_84
- Track 17 : Anon_90
- Track 18 : Elle_86
- Track 19 : Kimona_81
- Track 20 : Tristan_80
- Track 21 : Jaan_82
- Track 22 : Iwokeuplikedis_87
- Track 23 : Bactobuster_76
- Track 24 : Herbertwm_78
- Track 25 : Phaded_78
- Track 26 : IronMan_81
- Track 27 : Landor_82
- Track 28 : Pukovnik_79
- Track 29 : Happiness_80, Eurydice_82, Romney_80, Burger_79, LochMonster_82, Koreni_80, Mazhar510_81, Chaph_81, OKaNui_80, Lorenzo_81, Wilbur_81, SenorClean_82, SteMason_77, Phelipe_81, Obama12_82, Huxley_70, KekoraPapaka_78, Funston_80, Phighter1804_81, Eris_80, CentreCat_81, Nebs_82, NotAPhaseMom_80, SheldonCooper_81, Cerulean_83, Relief_80, Bruiser_80, Camperdownii_77, Medusa_80, Scamp_81, Xena_77, Flux_82, Eapen_81, Caelakin_79, Eagle_80, Dhanush_81, Iceman_79, Maverick_80, Shygu2_79,

YoSam321_81, ChampagnePapi_84, Kyee_81, Palestino_80, Spino_80, PeterPeter_81, Ulysses_80, Ruin_81, Cocoaberry_81, TygerBlood_81, Pipcraft_77, Avle17_81, LHTSCC_83, KFPoly_80, Phacado_81, Sabertooth_81, Kremtemulon_78, Tinybot_80, JoongJeon_80, Ohfah_82, Kratark_80, Koan_78, NorthStar_78, Maxo_83, Cintron_81, Kamy_80, Gadost_81, Nemo27_80, Kingmustik0402_81, Bombshell_81, Lemur_81, Datway_78, BangNhom_78, Sultana_81, Wander_81, TroyPia_82, LittleB_81, Houdini22_80, Clarenza_80, Iracema64_81

- Track 30 : Annyong_80, Albee_81, Polymorphads_82, Connomayer_81, TinaFeyge_79, Jaykayelowell_78, Pumbaa_81, Florean_81, DirtyDunning_80, BubbleTrouble_80, Baby16_81, Sparxx_82, Roosevelt_79, TiroTheta9_80, JetBlade_82, LappelDuVide_81, Holli_80, Abdiel_80, Citius_81, Broseidon_81, Deano_78, Shaka_79, HamSlice_77, Morrow_83, Blackmoor_80, Bartimeaus_81
- Track 31 : Miramae_81
- Track 32 : Taquarus_80, RockieBear_78, LittleGuy_81, Nyxis_80, Eros_81, Phontbonne_81, Commander_79, Peaches_79
- Track 33 : Achebe_76, Morpher26_77, Wile_76, Alberto7_82, Katalie136_77, AbbysRanger_77, Perplexer_77, Backyardigan_75, Druantia_79, Badger_76, Wizard007_77, Bumblebee11_76, BellusTerra_81, Cici_77, PetiteSangsue_77
- Track 34 : Melvin_83, Skipitt_80
- Track 35 : Millski_80, Thanksgivukkah_80, MeeZee_80
- Track 36 : Stink_81
- Track 37 : Rosa24_77
- Track 38 : Noelle_78
- Track 39 : Mundrea_79, AvatarAhPeg_81
- Track 40 : Cindaradix_76
- Track 41 : ICleared_80
- Track 42 : Arturo_78
- Track 43 : Lunsford_81
- Track 44 : McFly_84, DaVinci_82, Cookiedough_84, Neeharika16_83, Chartreuse_83, Dorothea_84, Kipper29_84, BABullseye_77
- Track 45 : Rifter_86, Gruunaga_85, Hexamo_85, Gladiator_82
- Track 46 : Jordennis_82, Candra_82, Hoot_79, Pmask_83, Kazan_85, SuperAwesome_84, VohminGhazi_84, GreedyLawyer_78, Newrala_83, SmellyB_84
- Track 47 : ToneTone_83, Wiks_85, Artemis2UCLA_85, WunderPhul_86, Helmet_88, Temprado_87, Yokurt_85, Zulu_87, Lilbunny_85, Blue7_87, Roksolana_86, Zaka_86, BlessJoy_86, Tucker_86, Koko_87, Indra_89, BennyP_85, Garak_87
- Track 48 : CloudWang3_86, Hammer_86
- Track 49 : Blinn1_88
- Track 50 : Sheen_78, Toro_79
- Track 51 : Timshel_78
- Track 52 : HINdeR_77
- Track 53 : FlyCatcher_81
- Track 54 : DroogsArmy_77
- Track 55 : StarPlatinum_225
- Track 56 : Mugiwara_224
- Track 57 : TomSawyer_220, Jollison_213, KentuckyRacer_222, Spilled_223, Starbow_213, Rikishi_217, Bordeaux_214, Amabiko_220, Gibbi_224, Quarant19_216, IchabodCrane_211, Spelly_221, JimJam_223, MindFlayer_209, Birchlyn_215, PumpkinSpice_219, SaltySpittoon_216, Battuta_214, CeilingFan_220
- Track 58 : Yaboi_221, Wofford_218, Sollertia_217, Stanimal_216, AngryGiraffe_215, Genie2_215, BoomerJR_215

- Track 59 : Karimac_217, Brizzy_215
- Track 60 : AcciDwight_224, Wipeout_207
- Track 61 : Tomas_215
- Track 62 : LukeCage_221
- Track 63 : Enygma_226
- Track 64 : Elmer_227
- Track 65 : Francob_244, Maupel_243, Gilson_240, MeganTheeKilla_243
- Track 66 : Patelgo_242
- Track 67 : Karp_236, Comrade_233, Belfort_237, SparkleGoddess_238, Stigma_236
- Track 68 : SeresaTree_242, Faust_238
- Track 69 : Phredrick_245
- Track 70 : Sham_228
- Track 71 : Emma1919_241, DeluluLabubu_241, Jada_238, Forrest_239
- Track 72 : Blueeyedbeauty_235
- Track 73 : Kenrey_246
- Track 74 : Westy_239
- Track 75 : Moab_243
- Track 76 : Muntaha_214
- Track 77 : BillNye_199
- Track 78 : Chaewon_201
- Track 79 : Wakanda_212
- Track 80 : Circinus_199
- Track 81 : ScoobyDoobyDoo_227
- Track 82 : Myrna_230, Greely_237
- Track 83 : Phabba_240
- Track 84 : Francesca_236, Dorin_235
- Track 85 : Yakult_36
- Track 86 : Big4_14, Big4_340
- Track 87 : Zooman_12, Zooman_325
- Track 88 : Cece_19, Cece_321
- Track 89 : Yunkel11_82, Efra2_83
- Track 90 : DartGoblin_79, Anma_76, Bella96_77, TiniBug_76, SamuelLPlaqson_76, Urkel_76, DrHayes_76
- Track 91 : Llorens_76, CaseJules_78, Boiiii_76, Hyperbowlee_75, BEEST_76, Asayake_76, Topper_76, Dalmuri_76, Twitch_76, Blizzard_76, Homura_75, ShiaSurprise_77, Joy99_77, Peel_76, Belladonna_76, Jeckyll_76, HedwigODU_76, Atiba_77, Durfee_76, Zabiza_72, CallaLilly_76, Piatt_75, Capricorn_76, Tachez_76, AlishaPH_75, CREW_75, Jarvi_76, Rosmarinus_76, Spock_76, Lunahalos_76, Adephegia_75, Padfoot_76, BaghaKamala_75, Inky_76, ActinUp_77, BGlluviae_76
- Track 92 : LastHope_83
- Track 93 : Rapunzel97_79, Apocalypse_79, Slimphazie_78, BarrelRoll_77, TruffulaTree_78, CheetoDust_76, JAWS_75, Veliki_77, Deby_76, Mynx_78, Ramen_77, Pokerus_77, Jayhawk_79
- Track 94 : Anaya_80
- Track 95 : Emerson_79, Prithvi_79, LindNT_75, Padpat_80, TreyKay_79
- Track 96 : TingHuaYa_80
- Track 97 : Murucutumbu_77
- Track 98 : Guanica15_82
- Track 99 : Zavala_79
- Track 100 : Milly_82, Strobilo_83, Marcoliusprime_81, DismalFunk_82, DismalStressor_82, Findley_82
- Track 101 : ZoeJ_81

- Track 102 : Doughnut_82
- Track 103 : TM4_80
- Track 104 : BoostSeason_81, Mufasa_81
- Track 105 : Pixie_78, ShedlockHolmes_81, TBond007_75, Hurricane_79, Lea83_79, Keshu_81
- Track 106 : Pharb_77
- Track 107 : Slarp_81, Cheetobro_81, Qhanda_83, Taquito_80
- Track 108 : Mitti_81, Eponine_83, DanSyl44_84, Fionnbharth_81
- Track 109 : Patt_77, Reptar3000_78
- Track 110 : YasnayaPolyana_80, Lebo14_80
- Track 111 : Juliette_83
- Track 112 : JF1_81, Ruthiejr_82
- Track 113 : Chancellor_81
- Track 114 : SamScheppers_80
- Track 115 : Kraw_81
- Track 116 : MissDaisy_78
- Track 117 : Bobquesha_82
- Track 118 : OmniCritical_81
- Track 119 : Wintermute_81
- Track 120 : Y2_78, Y10_78
- Track 121 : Malthus_82
- Track 122 : Phrank_82, Tierra_81, Bryler_82, Cain_82
- Track 123 : PhelpsODU_81, Unicorn_81
- Track 124 : TClif_92
- Track 125 : Yuna_80

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

The start number called the most often in the published annotations is 35, it was called in 155 of the 409 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbysRanger_77, Abdiel_80, Achebe_76, Albee_81, Alberto7_82, Annyong_80, Arturo_78, AvatarAhPeg_81, Avle17_81, Baby16_81, Backyardigan_75, Bactobuster_76, Badger_76, BangNhom_78, Bartimeaus_81, BellusTerra_81, Blackmoor_80, Bombshell_81, Broseidon_81, Bruiser_80, BubbleTrouble_80, Bumblebee11_76, Burger_79, Caelakin_79, Camperdownii_77, CentreCat_81, Cerulean_83, ChampagnePapi_84, Chaph_81, Cici_77, Cindaradix_76, Cintron_81, Citius_81, Clarenza_80, Cocoaberry_81, Commander_79, Connomayer_81, Datway_78, Deano_78, Dhanush_81, DirtyDunning_80, DontArgue_75, Drake94_77, Druantia_79, DustyMartin_82, Eagle_80, Eaglepride_83, Eapen_81, Eris_80, Eros_81, Eurydice_82, Floean_81, Flux_82, Funston_80, Gadost_81, HamSlice_77, Happiness_80, Holli_80, Houdini22_80, Huxley_70, ICleared_80, Iceman_79, Iracema64_81, IronMan_81, Iwokeuplikedis_87, Jaan_82, Jaykayelowell_78, JetBlade_82, JoongJeon_80, KFPoly_80, Kampy_80, Katalie136_77, KekoraPapaka_78, Kingmustik0402_81, KittenMittens_76, Koan_78, Koreni_80, Kratak_80, Kremtemulon_78, Kristoff_78, Kyee_81, LHTSCC_83, Landor_82, LappelDuVide_81, Lemur_81, LittleB_81, LittleGuy_81, LochMonster_82, Lorenzo_81, Lunsford_81, Maverick_80, Maxo_83, Mazhar510_81, Medusa_80, MeeZee_80, Millski_80, Morpher26_77, Morrow_83, Mundrea_79, Nebs_82,

Nemo27_80, NorthStar_78, NotAPhaseMom_80, Nyxis_80, OKaNui_80, Obama12_82, Ohfah_82, Palestino_80, PeaceMeal1_77, Peaches_79, Perplexer_77, PeterPeter_81, PetiteSangsue_77, Phacado_81, Phaded_78, Phelipe_81, Phighter1804_81, Phontbonne_81, Pipcraft_77, Polymorphads_82, Poompha_77, Pukovnik_79, Pumbaa_81, Rebeuca_81, Relief_80, RhynO_68, RockieBear_78, Romney_80, Roosevelt_79, Rowdy_82, Ruin_81, Sabertooth_81, Scamp_81, SenorClean_82, Severus_78, Shaka_79, Shapes_82, SheldonCooper_81, Shygu2_79, Sparxx_82, Spino_80, Stasia_78, SteMason_77, Stink_81, Sultana_81, Taquarus_80, Thanksgivukkah_80, TinaFeyge_79, Tinybot_80, TiroTheta9_80, Topanga_69, Tristan_80, TroyPia_82, Twister_80, TygerBlood_81, Ulysses_80, WalterMcMickey_79, Wander_81, Wilbur_81, Wile_76, Wizard007_77, Xena_77, YoSam321_81,

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

- Melvin_83, Miramae_81, Noelle_78, Rosa24_77, Skipitt_80,

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

- AcciDwight_224, ActinUp_77, Adephegia_75, AlishaPH_75, Amabiko_220, Anaya_80, Anaysia_87, AngryGiraffe_215, Anma_76, Anon_90, Apocalypse_79, Artemis2UCLA_85, Asayake_76, Atiba_77, BABullseye_77, BEEST_76, BGIlluviae_76, BaghaKamala_75, BarrelRoll_77, Battleship_90, Battuta_214, Belfort_237, Bella96_77, Belladonna_76, BennyP_85, Big4_14, Big4_340, BillNye_199, Birchlyn_215, BlessJoy_86, Blinn1_88, Blizzard_76, Blue7_87, Blueeyedbeauty_235, Bobquesha_82, Boiiii_76, Boohoo_86, BoomerJR_215, BoostSeason_81, Bordeaux_214, Brizzy_215, Bryler_82, CREW_75, Cain_82, CallaLilly_76, Candra_82, Capricorn_76, CaseJules_78, Cece_19, Cece_321, CeilingFan_220, Chaewon_201, Chancellor_81, Chartreuse_83, CheetoDust_76, Cheetobro_81, Chupacabra_77, Circinus_199, CloudWang3_86, Comrade_233, Cookiedough_84, DaVinci_82, Dalmuri_76, DanSyl44_84, DartGoblin_79, Deby_76, DekHockey33_89, DeluluLabubu_241, DismalFunk_82, DismalStressor_82, Dorin_235, Dorothea_84, Doughnut_82, DrHayes_76, DroogsArmy_77, Durfee_76, Efra2_83, Elle_86, Elmer_227, Emerson_79, Emma1919_241, Enygma_226, Eponine_83, Faust_238, Findley_82, Fionnbharth_81, FlyCatcher_81, Forrest_239, Francesca_236, Francob_244, Gail_85, Garak_87, Genie2_215, Gibbi_224, Gilson_240, Gladiator_82, Goose_81, GreedyLawyer_78, Greely_237, Gruunaga_85, Guanica15_82, HINdeR_77, Hammer_86, HedwigODU_76, Helmet_88, Herbertwm_78, Hexamo_85, Homura_75, Hoot_79, Hurricane_79, Hyperbowlee_75, IchabodCrane_211, Indra_89, Inky_76, JAWS_75, JF1_81, JSwag_87, Jada_238, Jarvi_76, Jayhawk_79, Jeckyll_76, Jeeves_85, JimJam_223, Jollison_213, Jordennis_82, Joy99_77, Juliette_83, Karimac_217, Karp_236, KatherineG_87, Kazan_85, Kenrey_246, KentuckyRacer_222, Keshu_81, Kimona_81, Kipper29_84, Koko_87, Kraw_81, LastHope_83, LastResort_85, Lea83_79, Lebo14_80, Lilbunny_85, LindNT_75, Llorens_76, Luchador_83, LukeCage_221, Lunahalos_76, Malthus_82, Marcoliusprime_81, Maupel_243, McFly_84, MeganTheeKilla_243, Milly_82, MindFlayer_209, MinecraftSteve_88, MissDaisy_78, Mitti_81, Moab_243, Mufasa_81, Mugiwara_224, Muntaha_214, Murucutumbu_77, Mynx_78, Myrna_230, Nebulosus_84, Neeharika16_83, Newrala_83, OKCentral2016_79, OmniCritical_81, Padfoot_76, Padpat_80, Patelgo_242, Patt_77, Peel_76, Phabba_240, Pharb_77, PhelpsODU_81, Phrank_82, Phredrick_245, Piatt_75, Pixie_78, Pmask_83, Pokerus_77, Prithvi_79, PumpkinSpice_219, Qhanda_83, Quarant19_216, Ramen_77, Rapunzel97_79, ReMo_85, Reptar3000_78, Rifter_86, Rikishi_217, Roksolana_86, Rosmarinus_76, Ruthiejr_82, SaltySpittoon_216, SamScheppers_80, SamuelLPlaqson_76, ScoobyDoobyDoo_227, SeresaTree_242, Sham_228,

ShayRa_85, ShedlockHolmes_81, Sheen_78, ShiaSurprise_77, Slarp_81, Slimphazie_78, SmellyB_84, Sollertia_217, SororFago_83, SparkleGoddess_238, Spelly_221, Spilled_223, Spock_76, Stanimal_216, StarPlatinum_225, Starbow_213, Stigma_236, Strobilo_83, Sunhee_85, SuperAwesome_84, Switzerland_85, TBond007_75, TClif_92, TM4_80, Tachez_76, Taquito_80, Temprado_87, Tierra_81, Timshel_78, TingHuaYa_80, TiniBug_76, TomSawyer_220, Tomas_215, ToneTone_83, Topper_76, Toro_79, TreyKay_79, TruffulaTree_78, Tucker_86, Twitch_76, Unicorn_81, Urkel_76, Veliki_77, VohminGhazi_84, Waits_87, Wakanda_212, Westy_239, Wiks_85, Wintermute_81, Wipeout_207, Wofford_218, WunderPhul_86, Y10_78, Y2_78, Yaboi_221, Yakult_36, YasnayaPolyana_80, Yokurt_85, Yuna_80, Yunkel11_82, Zabiza_72, Zaka_86, Zavala_79, ZoeJ_81, Zooman_12, Zooman_325, Zulu_87,

Summary by start number:

Start 18:

- Found in 7 of 438 (1.6%) of genes in pham
- Manual Annotations of this start: 7 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hurricane_79 (K3), Keshu_81 (K3), Lea83_79 (K3), Pixie_78 (K3), ShedlockHolmes_81 (K3), TBond007_75 (K3), Yuna_80 (K6),

Start 30:

- Found in 150 of 438 (34.2%) of genes in pham
- Manual Annotations of this start: 3 of 409
- Called 2.0% of time when present
- Phage (with cluster) where this start called: Melvin_83 (A4), Miramae_81 (A4), Skipitt_80 (A4),

Start 32:

- Found in 3 of 438 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: FlyCatcher_81 (A7),

Start 34:

- Found in 10 of 438 (2.3%) of genes in pham
- Manual Annotations of this start: 8 of 409
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Chupacabra_77 (A10), DroogsArmy_77 (A7), Goose_81 (A10), HINdeR_77 (A7), Herbertwm_78 (A2), OKCentral2016_79 (A10), Sheen_78 (A7), Timshel_78 (A7), Toro_79 (A7),

Start 35:

- Found in 168 of 438 (38.4%) of genes in pham
- Manual Annotations of this start: 155 of 409
- Called 97.0% of time when present
- Phage (with cluster) where this start called: AbbysRanger_77 (A4), Abdiel_80 (A4), Achebe_76 (A4), Albee_81 (A4), Alberto7_82 (A4), Annyong_80 (A4), Arturo_78 (A4), AvatarAhPeg_81 (A4), Avle17_81 (A4), Baby16_81 (A4), Backyardigan_75 (A4), Bactobuster_76 (A2), Badger_76 (A4), BangNhom_78 (A4), Bartimeaus_81 (A4), BellusTerra_81 (A4), Blackmoor_80 (A4), Bombshell_81 (A4), Broseidon_81 (A4),

Bruiser_80 (A4), BubbleTrouble_80 (A4), Bumblebee11_76 (A4), Burger_79 (A4), Caelakin_79 (A4), Camperdownii_77 (A4), CentreCat_81 (A4), Cerulean_83 (A4), ChampagnePapi_84 (A4), Chaph_81 (A4), Cici_77 (A4), Cindaradix_76 (A4), Cintron_81 (A4), Citius_81 (A4), Clarenza_80 (A4), Cocoaberry_81 (A4), Commander_79 (A4), Connomayer_81 (A4), Datway_78 (A4), Deano_78 (A4), Dhanush_81 (A4), DirtyDunning_80 (A4), DontArgue_75 (A10), Drake94_77 (A10), Druantia_79 (A4), DustyMartin_82 (A10), Eagle_80 (A4), Eaglepride_83 (A10), Eapen_81 (A4), Eris_80 (A4), Eros_81 (A4), Eurydice_82 (A4), Florean_81 (A4), Flux_82 (A4), Funston_80 (A4), Gadost_81 (A4), HamSlice_77 (A4), Happiness_80 (A4), Holli_80 (A4), Houdini22_80 (A4), Huxley_70 (A4), ICleared_80 (A4), Iceman_79 (A4), Iracema64_81 (A4), IronMan_81 (A2), Iwokeuplikedis_87 (A2), Jaan_82 (A2), Jaykayelowell_78 (A4), JetBlade_82 (A4), JoongJeon_80 (A4), KFPoly_80 (A4), Kamy_80 (A4), Katalie136_77 (A4), KekoraPapaka_78 (A4), Kingmustik0402_81 (A4), KittenMittens_76 (A10), Koan_78 (A4), Koreni_80 (A4), Kratark_80 (A4), Kremtemulon_78 (A4), Kristoff_78 (A10), Kye_81 (A4), LHTSCC_83 (A4), Landor_82 (A2), LappelDuVide_81 (A4), Lemur_81 (A4), LittleB_81 (A4), LittleGuy_81 (A4), LochMonster_82 (A4), Lorenzo_81 (A4), Lunsford_81 (A4), Maverick_80 (A4), Maxo_83 (A4), Mazhar510_81 (A4), Medusa_80 (A4), MeeZee_80 (A4), Millski_80 (A4), Morpher26_77 (A4), Morrow_83 (A4), Mundrea_79 (A4), Nebs_82 (A4), Nemo27_80 (A4), NorthStar_78 (A4), NotAPhaseMom_80 (A4), Nyxis_80 (A4), OKaNui_80 (A4), Obama12_82 (A4), Ohfah_82 (A4), Palestino_80 (A4), PeaceMeal1_77 (A10), Peaches_79 (A4), Perplexer_77 (A4), PeterPeter_81 (A4), PetiteSangsue_77 (A4), Phacado_81 (A4), Phaded_78 (A2), Felipe_81 (A4), Phighter1804_81 (A4), Phontbonne_81 (A4), Pipcraft_77 (A4), Polymorphads_82 (A4), Poompha_77 (A10), Pukovnik_79 (A2), Pumbaa_81 (A4), Rebeuca_81 (A10), Relief_80 (A4), RhynO_68 (A10), RockieBear_78 (A4), Romney_80 (A4), Roosevelt_79 (A4), Rowdy_82 (A10), Ruin_81 (A4), Sabertooth_81 (A4), Scamp_81 (A4), SeniorClean_82 (A4), Severus_78 (A10), Shaka_79 (A4), Shapes_82 (A10), SheldonCooper_81 (A4), Shygu2_79 (A4), Sparxx_82 (A4), Spino_80 (A4), Stasia_78 (A4), SteMason_77 (A4), Stink_81 (A4), Sultana_81 (A4), Taquarus_80 (A4), Thanksgivukkah_80 (A4), TinaFeyge_79 (A4), Tinybot_80 (A4), TiroTheta9_80 (A4), Topanga_69 (A10), Tristan_80 (A2), TroyPia_82 (A4), Twister_80 (A10), TygerBlood_81 (A4), Ulysses_80 (A4), WalterMcMickey_79 (A10), Wander_81 (A4), Wilbur_81 (A4), Wile_76 (A4), Wizard007_77 (A4), Xena_77 (A4), YoSam321_81 (A4),

Start 36:

- Found in 15 of 438 (3.4%) of genes in pham
- Manual Annotations of this start: 14 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia_87 (A15), Anon_90 (A15), Battleship_90 (A15), Boohoo_86 (A15), DekHockey33_89 (A15), Elle_86 (A15), JSwag_87 (A15), KatherineG_87 (A15), LastResort_85 (A15), MinecraftSteve_88 (A15), Nebulosus_84 (A15), ReMo_85 (A15), ShayRa_85 (A15), Switzerland_85 (A15), Waits_87 (A15),

Start 38:

- Found in 45 of 438 (10.3%) of genes in pham
- Manual Annotations of this start: 38 of 409
- Called 91.1% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_85 (A6), BABullseye_77 (A6), BennyP_85 (A6), BlessJoy_86 (A6), Blinn1_88 (A6), Blue7_87 (A6), Candra_82 (A6), Chartreuse_83 (A6), Cookiedough_84 (A6), DaVinci_82 (A6), Dorothea_84

(A6), Garak_87 (A6), Gladiator_82 (A6), GreedyLawyer_78 (A6), Gruunaga_85 (A6), Helmet_88 (A6), Hexamo_85 (A6), Hoot_79 (A6), Indra_89 (A6), Jordennis_82 (A6), Kazan_85 (A6), Kipper29_84 (A6), Koko_87 (A6), Lilbunny_85 (A6), McFly_84 (A6), Neeharika16_83 (A6), Newrala_83 (A6), Pmask_83 (A6), Rifter_86 (A6), Roksolana_86 (A6), SmellyB_84 (A6), SuperAwesome_84 (A6), Temprado_87 (A6), ToneTone_83 (A6), Tucker_86 (A6), VohminGhazi_84 (A6), Wiks_85 (A6), WunderPhul_86 (A6), Yokurt_85 (A6), Zaka_86 (A6), Zulu_87 (A6),

Start 39:

- Found in 21 of 438 (4.8%) of genes in pham
- Manual Annotations of this start: 2 of 409
- Called 9.5% of time when present
- Phage (with cluster) where this start called: JF1_81 (K4), Ruthiejr_82 (K4),

Start 40:

- Found in 154 of 438 (35.2%) of genes in pham
- Manual Annotations of this start: 1 of 409
- Called 1.3% of time when present
- Phage (with cluster) where this start called: Noelle_78 (A4), Rosa24_77 (A4),

Start 41:

- Found in 68 of 438 (15.5%) of genes in pham
- Manual Annotations of this start: 65 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ActinUp_77 (K1), Adephagia_75 (K1), AlishaPH_75 (K1), Anma_76 (K1), Apocalypse_79 (K1), Asayake_76 (K1), Atiba_77 (K1), BEEST_76 (K1), BGlluviae_76 (K1), BaghaKamala_75 (K1), BarrelRoll_77 (K1), Bella96_77 (K1), Belladonna_76 (K1), Blizzard_76 (K1), Boiiii_76 (K1), CREW_75 (K1), CallaLilly_76 (K1), Capricorn_76 (K1), CaseJules_78 (K1), CheetoDust_76 (K1), Dalmuri_76 (K1), DartGoblin_79 (K1), Deby_76 (K1), DrHayes_76 (K1), Durfee_76 (K1), Efra2_83 (K1), Emerson_79 (K1), Guanica15_82 (K1), HedwigODU_76 (K1), Homura_75 (K1), Hyperbowlee_75 (K1), Inky_76 (K1), JAWS_75 (K1), Jarvi_76 (K1), Jayhawk_79 (K1), Jeckyll_76 (K1), Joy99_77 (K1), LastHope_83 (K1), LindNT_75 (K1), Llorens_76 (K1), Lunahalos_76 (K1), Mynx_78 (K1), Padfoot_76 (K1), Padpat_80 (K1), Peel_76 (K1), Piatt_75 (K1), Pokerus_77 (K1), Prithvi_79 (K1), Ramen_77 (K1), Rapunzel97_79 (K1), Rosmarinus_76 (K1), SamuelLPlaqson_76 (K1), ShiaSurprise_77 (K1), Slimphazie_78 (K1), Spock_76 (K1), Tachez_76 (K1), TingHuaYa_80 (K1), TiniBug_76 (K1), Topper_76 (K1), TreyKay_79 (K1), TruffulaTree_78 (K1), Twitch_76 (K1), Urkel_76 (K1), Veliki_77 (K1), Yakult_36 (CT), Yunkel11_82 (K1), Zabiza_72 (K1), Zavala_79 (K1),

Start 43:

- Found in 2 of 438 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaya_80 (K1), Murucutumbu_77 (K1),

Start 44:

- Found in 171 of 438 (39.0%) of genes in pham
- Manual Annotations of this start: 21 of 409
- Called 14.0% of time when present
- Phage (with cluster) where this start called: Bryler_82 (K6), Cain_82 (K6), Chancellor_81 (K4), Cheetobro_81 (K4), DanSyl44_84 (K4), Eponine_83 (K4),

Fionnbharth_81 (K4), Gail_85 (A14), Jeeves_85 (A14), Luchador_83 (A14), Malthus_82 (K4), Mitti_81 (K4), Patt_77 (K4), PhelpsODU_81 (K6), Phrank_82 (K6), Qhanda_83 (K4), Reptar3000_78 (K4), Slarp_81 (K4), SororFago_83 (A14), Sunhee_85 (A14), Taquito_80 (K4), Tierra_81 (K6), Unicorn_81 (K6), Wintermute_81 (K4),

Start 45:

- Found in 1 of 438 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kimona_81 (A19),

Start 47:

- Found in 32 of 438 (7.3%) of genes in pham
- Manual Annotations of this start: 12 of 409
- Called 43.8% of time when present
- Phage (with cluster) where this start called: Bobquesha_82 (K4), Greely_237 (C2), Juliette_83 (K4), Lebo14_80 (K4), MissDaisy_78 (K4), Myrna_230 (C2), OmniCritical_81 (K4), Phabba_240 (C2), Pharb_77 (K3), SamScheppers_80 (K4), ScoobyDoobyDoo_227 (C2), Y10_78 (K4), Y2_78 (K4), YasnayaPolyana_80 (K4),

Start 48:

- Found in 15 of 438 (3.4%) of genes in pham
- Manual Annotations of this start: 12 of 409
- Called 80.0% of time when present
- Phage (with cluster) where this start called: BoostSeason_81 (K2), DismalFunk_82 (K2), DismalStressor_82 (K2), Doughnut_82 (K2), Findley_82 (K2), Marcoliusprime_81 (K2), Milly_82 (K2), Mufasa_81 (K2), Strobilo_83 (K2), TClif_92 (K6), TM4_80 (K2), ZoeJ_81 (K2),

Start 50:

- Found in 21 of 438 (4.8%) of genes in pham
- Manual Annotations of this start: 2 of 409
- Called 9.5% of time when present
- Phage (with cluster) where this start called: Cece_19 (GD3), Cece_321 (GD3),

Start 51:

- Found in 1 of 438 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Enygma_226 (BE2),

Start 52:

- Found in 297 of 438 (67.8%) of genes in pham
- Manual Annotations of this start: 64 of 409
- Called 22.9% of time when present
- Phage (with cluster) where this start called: Amabiko_220 (BE2), AngryGiraffe_215 (BE2), Battuta_214 (BE2), Belfort_237 (BK1), Big4_14 (GD2), Big4_340 (GD2), BillNye_199 (BK2), Birchlyn_215 (BE2), Blueeyedbeauty_235 (BK1), BoomerJR_215 (BE2), Bordeaux_214 (BE2), Brizzy_215 (BE2), CeilingFan_220 (BE2), Circinus_199 (BK2), CloudWang3_86 (A6), Comrade_233 (BK1), DeluluLabubu_241 (BK1), Dorin_235 (CG), Elmer_227 (BE2), Emma1919_241 (BK1), Faust_238 (BK1), Forrest_239 (BK1), Francesca_236 (CG), Francob_244 (BK1), Genie2_215 (BE2),

Gibbi_224 (BE2), Gilson_240 (BK1), Hammer_86 (A6), IchabodCrane_211 (BE2), Jada_238 (BK1), JimJam_223 (BE2), Jollison_213 (BE2), Karimac_217 (BE2), Karp_236 (BK1), Kenrey_246 (BK1), KentuckyRacer_222 (BE2), Kraw_81 (K4), LukeCage_221 (BE2), Maupel_243 (BK1), MeganTheeKilla_243 (BK1), MindFlayer_209 (BE2), Moab_243 (BK1), Mugiwara_224 (BE2), Muntaha_214 (BK2), Patelgo_242 (BK1), Phredrick_245 (BK1), PumpkinSpice_219 (BE2), Quarant19_216 (BE2), Rikishi_217 (BE2), SaltySpittoon_216 (BE2), SeresaTree_242 (BK1), Sham_228 (BK1), Sollertia_217 (BE2), SparkleGoddess_238 (BK1), Spelly_221 (BE2), Spilled_223 (BE2), Stanimal_216 (BE2), StarPlatinum_225 (BE2), Starbow_213 (BE2), Stigma_236 (BK1), TomSawyer_220 (BE2), Tomas_215 (BE2), Wakanda_212 (BK2), Westy_239 (BK1), Wofford_218 (BE2), Yaboi_221 (BE2), Zooman_12 (GD2), Zooman_325 (GD2),

Start 56:

- Found in 73 of 438 (16.7%) of genes in pham
- No Manual Annotations of this start.
- Called 1.4% of time when present
- Phage (with cluster) where this start called: Chaewon_201 (BK2),

Start 69:

- Found in 35 of 438 (8.0%) of genes in pham
- Manual Annotations of this start: 1 of 409
- Called 5.7% of time when present
- Phage (with cluster) where this start called: AcciDwight_224 (BE2), Wipeout_207 (BE2),

Summary by clusters:

There are 21 clusters represented in this pham: A15, A7, GD2, GD3, A10, A14, A19, K4, CG, K3, K2, K1, A2, BK2, K6, BK1, A6, BE2, C2, CT, A4,

Info for manual annotations of cluster A10:

- Start number 34 was manually annotated 3 times for cluster A10.
- Start number 35 was manually annotated 12 times for cluster A10.

Info for manual annotations of cluster A14:

- Start number 44 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 36 was manually annotated 14 times for cluster A15.

Info for manual annotations of cluster A19:

- Start number 45 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 34 was manually annotated 1 time for cluster A2.
- Start number 35 was manually annotated 8 times for cluster A2.

Info for manual annotations of cluster A4:

- Start number 30 was manually annotated 3 times for cluster A4.
- Start number 35 was manually annotated 135 times for cluster A4.
- Start number 40 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A6:

- Start number 38 was manually annotated 38 times for cluster A6.
- Start number 52 was manually annotated 2 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 34 was manually annotated 4 times for cluster A7.

Info for manual annotations of cluster BE2:

- Start number 51 was manually annotated 1 time for cluster BE2.
- Start number 52 was manually annotated 32 times for cluster BE2.
- Start number 69 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 52 was manually annotated 19 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 52 was manually annotated 4 times for cluster BK2.

Info for manual annotations of cluster C2:

- Start number 47 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster CG:

- Start number 52 was manually annotated 2 times for cluster CG.

Info for manual annotations of cluster CT:

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

Info for manual annotations of cluster GD2:

- Start number 52 was manually annotated 4 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 50 was manually annotated 2 times for cluster GD3.

Info for manual annotations of cluster K1:

- Start number 41 was manually annotated 64 times for cluster K1.
- Start number 43 was manually annotated 2 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 48 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 18 was manually annotated 6 times for cluster K3.
- Start number 47 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K4:

- Start number 39 was manually annotated 2 times for cluster K4.
- Start number 44 was manually annotated 11 times for cluster K4.
- Start number 47 was manually annotated 8 times for cluster K4.
- Start number 52 was manually annotated 1 time for cluster K4.

Info for manual annotations of cluster K6:

- Start number 18 was manually annotated 1 time for cluster K6.
- Start number 44 was manually annotated 6 times for cluster K6.

- Start number 48 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: AbbysRanger_77 Start: 47535, Stop: 47068, Start Num: 35

Candidate Starts for AbbysRanger_77:

(Start: 30 @47553 has 3 MA's), (Start: 35 @47535 has 155 MA's), (Start: 40 @47526 has 1 MA's), (Start: 44 @47523 has 21 MA's), (54, 47505), (62, 47466), (83, 47331), (92, 47268), (97, 47214),

Gene: Abdiel_80 Start: 47911, Stop: 47441, Start Num: 35

Candidate Starts for Abdiel_80:

(Start: 30 @47929 has 3 MA's), (Start: 35 @47911 has 155 MA's), (Start: 40 @47902 has 1 MA's), (Start: 44 @47899 has 21 MA's), (54, 47881), (62, 47842), (76, 47734), (83, 47707), (92, 47644), (97, 47590),

Gene: AcciDwight_224 Start: 105819, Stop: 106166, Start Num: 69

Candidate Starts for AcciDwight_224:

(33, 105681), (Start: 52 @105729 has 64 MA's), (62, 105768), (Start: 69 @105819 has 1 MA's), (70, 105822), (73, 105858),

Gene: Achebe_76 Start: 47514, Stop: 47047, Start Num: 35

Candidate Starts for Achebe_76:

(Start: 30 @47532 has 3 MA's), (Start: 35 @47514 has 155 MA's), (Start: 40 @47505 has 1 MA's), (Start: 44 @47502 has 21 MA's), (54, 47484), (62, 47445), (83, 47310), (92, 47247), (97, 47193),

Gene: ActinUp_77 Start: 50506, Stop: 50967, Start Num: 41

Candidate Starts for ActinUp_77:

(Start: 41 @50506 has 65 MA's), (Start: 52 @50533 has 64 MA's), (56, 50542), (67, 50602), (74, 50665), (83, 50707), (84, 50710), (92, 50770), (101, 50848), (115, 50944), (116, 50947),

Gene: Adephagia_75 Start: 50343, Stop: 50804, Start Num: 41

Candidate Starts for Adephagia_75:

(Start: 41 @50343 has 65 MA's), (Start: 52 @50370 has 64 MA's), (56, 50379), (67, 50439), (74, 50502), (83, 50544), (84, 50547), (92, 50607), (101, 50685), (115, 50781), (116, 50784),

Gene: Albee_81 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for Albee_81:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's), (Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (76, 47722), (83, 47695), (92, 47632), (97, 47578),

Gene: Alberto7_82 Start: 48236, Stop: 47766, Start Num: 35

Candidate Starts for Alberto7_82:

(Start: 30 @48254 has 3 MA's), (Start: 35 @48236 has 155 MA's), (Start: 40 @48227 has 1 MA's), (Start: 44 @48224 has 21 MA's), (54, 48206), (62, 48167), (83, 48032), (92, 47969), (97, 47915),

Gene: AlishaPH_75 Start: 50604, Stop: 51065, Start Num: 41

Candidate Starts for AlishaPH_75:

(Start: 41 @50604 has 65 MA's), (Start: 52 @50631 has 64 MA's), (56, 50640), (67, 50700), (74, 50763), (83, 50805), (84, 50808), (92, 50868), (101, 50946), (115, 51042), (116, 51045),

Gene: Amabiko_220 Start: 105547, Stop: 105984, Start Num: 52

Candidate Starts for Amabiko_220:

(33, 105499), (Start: 52 @105547 has 64 MA's), (62, 105586), (Start: 69 @105637 has 1 MA's), (70, 105640), (73, 105676),

Gene: Anaya_80 Start: 51402, Stop: 51863, Start Num: 43

Candidate Starts for Anaya_80:

(Start: 43 @51402 has 2 MA's), (Start: 52 @51429 has 64 MA's), (56, 51438), (67, 51498), (74, 51561), (83, 51603), (84, 51606), (92, 51666), (101, 51744), (115, 51840), (116, 51843),

Gene: Anaysia_87 Start: 47291, Stop: 46824, Start Num: 36

Candidate Starts for Anaysia_87:

(Start: 36 @47291 has 14 MA's), (Start: 52 @47279 has 64 MA's), (62, 47240), (64, 47225),

Gene: AngryGiraffe_215 Start: 105657, Stop: 106094, Start Num: 52

Candidate Starts for AngryGiraffe_215:

(Start: 52 @105657 has 64 MA's), (62, 105696), (Start: 69 @105747 has 1 MA's), (70, 105750), (73, 105786), (89, 105870),

Gene: Anma_76 Start: 50854, Stop: 51315, Start Num: 41

Candidate Starts for Anma_76:

(Start: 41 @50854 has 65 MA's), (Start: 52 @50881 has 64 MA's), (56, 50890), (61, 50917), (67, 50950), (74, 51013), (84, 51058), (101, 51196), (115, 51292), (116, 51295),

Gene: Annyong_80 Start: 47944, Stop: 47474, Start Num: 35

Candidate Starts for Annyong_80:

(Start: 30 @47962 has 3 MA's), (Start: 35 @47944 has 155 MA's), (Start: 40 @47935 has 1 MA's), (Start: 44 @47932 has 21 MA's), (54, 47914), (62, 47875), (76, 47767), (83, 47740), (92, 47677), (97, 47623),

Gene: Anon_90 Start: 48046, Stop: 47579, Start Num: 36

Candidate Starts for Anon_90:

(Start: 36 @48046 has 14 MA's), (Start: 52 @48034 has 64 MA's), (62, 47995), (92, 47794), (97, 47740),

Gene: Apocalypse_79 Start: 51145, Stop: 51606, Start Num: 41

Candidate Starts for Apocalypse_79:

(Start: 41 @51145 has 65 MA's), (Start: 52 @51172 has 64 MA's), (56, 51181), (67, 51241), (74, 51304), (83, 51346), (84, 51349), (101, 51487), (115, 51583), (116, 51586),

Gene: Artemis2UCLA_85 Start: 46023, Stop: 45562, Start Num: 38

Candidate Starts for Artemis2UCLA_85:

(Start: 38 @46023 has 38 MA's), (Start: 52 @45996 has 64 MA's), (65, 45936), (76, 45843), (96, 45729),

Gene: Arturo_78 Start: 48027, Stop: 47557, Start Num: 35

Candidate Starts for Arturo_78:

(Start: 30 @48045 has 3 MA's), (Start: 35 @48027 has 155 MA's), (Start: 40 @48018 has 1 MA's), (Start: 44 @48015 has 21 MA's), (53, 48000), (54, 47997), (62, 47958), (83, 47823), (97, 47706),

Gene: Asayake_76 Start: 50658, Stop: 51119, Start Num: 41

Candidate Starts for Asayake_76:

(Start: 41 @50658 has 65 MA's), (Start: 52 @50685 has 64 MA's), (56, 50694), (67, 50754), (74, 50817), (83, 50859), (84, 50862), (92, 50922), (101, 51000), (115, 51096), (116, 51099),

Gene: Atiba_77 Start: 50306, Stop: 50767, Start Num: 41

Candidate Starts for Atiba_77:

(Start: 41 @50306 has 65 MA's), (Start: 52 @50333 has 64 MA's), (56, 50342), (67, 50402), (74, 50465), (83, 50507), (84, 50510), (92, 50570), (101, 50648), (115, 50744), (116, 50747),

Gene: AvatarAhPeg_81 Start: 48152, Stop: 47682, Start Num: 35

Candidate Starts for AvatarAhPeg_81:

(Start: 30 @48170 has 3 MA's), (Start: 35 @48152 has 155 MA's), (Start: 52 @48125 has 64 MA's), (54, 48119), (64, 48065), (67, 48050), (83, 47945), (97, 47828),

Gene: Avle17_81 Start: 47893, Stop: 47423, Start Num: 35

Candidate Starts for Avle17_81:

(Start: 30 @47911 has 3 MA's), (Start: 35 @47893 has 155 MA's), (Start: 40 @47884 has 1 MA's), (Start: 44 @47881 has 21 MA's), (54, 47863), (62, 47824), (83, 47689), (97, 47572),

Gene: BABullseye_77 Start: 44344, Stop: 43892, Start Num: 38

Candidate Starts for BABullseye_77:

(Start: 38 @44344 has 38 MA's), (Start: 52 @44317 has 64 MA's), (67, 44251), (76, 44173), (101, 44005),

Gene: BEEST_76 Start: 50658, Stop: 51119, Start Num: 41

Candidate Starts for BEEST_76:

(Start: 41 @50658 has 65 MA's), (Start: 52 @50685 has 64 MA's), (56, 50694), (67, 50754), (74, 50817), (83, 50859), (84, 50862), (92, 50922), (101, 51000), (115, 51096), (116, 51099),

Gene: BGlluviae_76 Start: 50461, Stop: 50922, Start Num: 41

Candidate Starts for BGlluviae_76:

(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: Baby16_81 Start: 47910, Stop: 47440, Start Num: 35

Candidate Starts for Baby16_81:

(Start: 30 @47928 has 3 MA's), (Start: 35 @47910 has 155 MA's), (Start: 40 @47901 has 1 MA's), (Start: 44 @47898 has 21 MA's), (54, 47880), (62, 47841), (76, 47733), (83, 47706), (92, 47643), (97, 47589),

Gene: Backyardigan_75 Start: 47551, Stop: 47084, Start Num: 35

Candidate Starts for Backyardigan_75:

(Start: 30 @47569 has 3 MA's), (Start: 35 @47551 has 155 MA's), (Start: 40 @47542 has 1 MA's), (Start: 44 @47539 has 21 MA's), (54, 47521), (62, 47482), (83, 47347), (92, 47284), (97, 47230),

Gene: Bactobuster_76 Start: 47201, Stop: 46731, Start Num: 35

Candidate Starts for Bactobuster_76:

(Start: 35 @47201 has 155 MA's), (Start: 40 @47192 has 1 MA's), (Start: 44 @47189 has 21 MA's), (Start: 52 @47177 has 64 MA's), (54, 47171), (92, 46937),

Gene: Badger_76 Start: 47517, Stop: 47050, Start Num: 35

Candidate Starts for Badger_76:

(Start: 30 @47535 has 3 MA's), (Start: 35 @47517 has 155 MA's), (Start: 40 @47508 has 1 MA's), (Start: 44 @47505 has 21 MA's), (54, 47487), (62, 47448), (83, 47313), (92, 47250), (97, 47196),

Gene: BaghaKamala_75 Start: 49892, Stop: 50353, Start Num: 41

Candidate Starts for BaghaKamala_75:

(Start: 41 @49892 has 65 MA's), (Start: 52 @49919 has 64 MA's), (56, 49928), (67, 49988), (74, 50051), (83, 50093), (84, 50096), (92, 50156), (101, 50234), (115, 50330), (116, 50333),

Gene: BangNhom_78 Start: 48336, Stop: 47866, Start Num: 35

Candidate Starts for BangNhom_78:

(Start: 30 @48354 has 3 MA's), (Start: 35 @48336 has 155 MA's), (Start: 40 @48327 has 1 MA's), (Start: 44 @48324 has 21 MA's), (54, 48306), (62, 48267), (83, 48132), (97, 48015),

Gene: BarrelRoll_77 Start: 50863, Stop: 51324, Start Num: 41

Candidate Starts for BarrelRoll_77:

(Start: 41 @50863 has 65 MA's), (Start: 52 @50890 has 64 MA's), (56, 50899), (67, 50959), (74, 51022), (83, 51064), (84, 51067), (101, 51205), (115, 51301), (116, 51304),

Gene: Bartimeaus_81 Start: 47901, Stop: 47431, Start Num: 35

Candidate Starts for Bartimeaus_81:

(Start: 30 @47919 has 3 MA's), (Start: 35 @47901 has 155 MA's), (Start: 40 @47892 has 1 MA's), (Start: 44 @47889 has 21 MA's), (54, 47871), (62, 47832), (76, 47724), (83, 47697), (92, 47634), (97, 47580),

Gene: Battleship_90 Start: 47304, Stop: 46837, Start Num: 36

Candidate Starts for Battleship_90:

(Start: 36 @47304 has 14 MA's), (Start: 52 @47292 has 64 MA's), (62, 47253), (64, 47238),

Gene: Battuta_214 Start: 104863, Stop: 105300, Start Num: 52

Candidate Starts for Battuta_214:

(33, 104815), (Start: 52 @104863 has 64 MA's), (62, 104902), (Start: 69 @104953 has 1 MA's), (70, 104956), (73, 104992),

Gene: Belfort_237 Start: 115212, Stop: 115670, Start Num: 52

Candidate Starts for Belfort_237:

(Start: 50 @115209 has 2 MA's), (Start: 52 @115212 has 64 MA's), (62, 115251), (74, 115350), (77, 115368), (86, 115401), (90, 115428), (101, 115536), (117, 115656), (118, 115659),

Gene: Bella96_77 Start: 50721, Stop: 51182, Start Num: 41

Candidate Starts for Bella96_77:

(Start: 41 @50721 has 65 MA's), (Start: 52 @50748 has 64 MA's), (56, 50757), (61, 50784), (67, 50817), (74, 50880), (84, 50925), (101, 51063), (115, 51159), (116, 51162),

Gene: Belladonna_76 Start: 50461, Stop: 50922, Start Num: 41

Candidate Starts for Belladonna_76:

(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: BellusTerra_81 Start: 47764, Stop: 47297, Start Num: 35

Candidate Starts for BellusTerra_81:

(Start: 30 @47782 has 3 MA's), (Start: 35 @47764 has 155 MA's), (Start: 40 @47755 has 1 MA's), (Start: 44 @47752 has 21 MA's), (54, 47734), (62, 47695), (83, 47560), (92, 47497), (97, 47443),

Gene: BennyP_85 Start: 46188, Stop: 45727, Start Num: 38

Candidate Starts for BennyP_85:

(Start: 38 @46188 has 38 MA's), (Start: 52 @46161 has 64 MA's), (65, 46101), (76, 46008), (96, 45894),

Gene: Big4_14 Start: 6390, Stop: 6845, Start Num: 52

Candidate Starts for Big4_14:

(Start: 52 @6390 has 64 MA's), (62, 6429), (76, 6537), (85, 6570), (92, 6624), (96, 6648), (99, 6687), (103, 6726), (112, 6789), (114, 6798),

Gene: Big4_340 Start: 181084, Stop: 181539, Start Num: 52

Candidate Starts for Big4_340:

(Start: 52 @181084 has 64 MA's), (62, 181123), (76, 181231), (85, 181264), (92, 181318), (96, 181342), (99, 181381), (103, 181420), (112, 181483), (114, 181492),

Gene: BillNye_199 Start: 106142, Stop: 106591, Start Num: 52

Candidate Starts for BillNye_199:

(28, 106085), (37, 106112), (Start: 52 @106142 has 64 MA's), (56, 106151), (59, 106166), (62, 106181), (109, 106526),

Gene: Birchlyn_215 Start: 102795, Stop: 103232, Start Num: 52

Candidate Starts for Birchlyn_215:

(33, 102747), (Start: 52 @102795 has 64 MA's), (62, 102834), (Start: 69 @102885 has 1 MA's), (70, 102888), (73, 102924),

Gene: Blackmoor_80 Start: 47901, Stop: 47431, Start Num: 35

Candidate Starts for Blackmoor_80:

(Start: 30 @47919 has 3 MA's), (Start: 35 @47901 has 155 MA's), (Start: 40 @47892 has 1 MA's), (Start: 44 @47889 has 21 MA's), (54, 47871), (62, 47832), (76, 47724), (83, 47697), (92, 47634), (97, 47580),

Gene: BlessJoy_86 Start: 46544, Stop: 46083, Start Num: 38

Candidate Starts for BlessJoy_86:

(Start: 38 @46544 has 38 MA's), (Start: 52 @46517 has 64 MA's), (65, 46457), (76, 46364), (96, 46250),

Gene: Blinn1_88 Start: 47002, Stop: 46550, Start Num: 38

Candidate Starts for Blinn1_88:

(1, 47302), (2, 47290), (10, 47182), (Start: 38 @47002 has 38 MA's), (Start: 52 @46975 has 64 MA's), (67, 46909), (71, 46876), (76, 46831), (96, 46717),

Gene: Blizzard_76 Start: 50658, Stop: 51119, Start Num: 41

Candidate Starts for Blizzard_76:

(Start: 41 @50658 has 65 MA's), (Start: 52 @50685 has 64 MA's), (56, 50694), (67, 50754), (74, 50817), (83, 50859), (84, 50862), (92, 50922), (101, 51000), (115, 51096), (116, 51099),

Gene: Blue7_87 Start: 46242, Stop: 45781, Start Num: 38

Candidate Starts for Blue7_87:

(Start: 38 @46242 has 38 MA's), (Start: 52 @46215 has 64 MA's), (65, 46155), (76, 46062), (96, 45948),

Gene: Blueeyedbeauty_235 Start: 114281, Stop: 114733, Start Num: 52

Candidate Starts for Blueeyedbeauty_235:

(Start: 52 @114281 has 64 MA's), (62, 114320), (64, 114335), (74, 114413), (75, 114425), (81, 114446), (86, 114464), (117, 114719), (118, 114722),

Gene: Bobquesha_82 Start: 49631, Stop: 50194, Start Num: 47

Candidate Starts for Bobquesha_82:

(8, 49424), (11, 49439), (14, 49475), (16, 49496), (20, 49523), (23, 49553), (Start: 44 @49622 has 21 MA's), (Start: 47 @49631 has 12 MA's), (Start: 52 @49646 has 64 MA's), (64, 49700), (67, 49715), (76, 49793), (83, 49820), (92, 49883), (101, 49961), (132, 50162),

Gene: Boiiii_76 Start: 50660, Stop: 51121, Start Num: 41

Candidate Starts for Boiiii_76:

(Start: 41 @50660 has 65 MA's), (Start: 52 @50687 has 64 MA's), (56, 50696), (67, 50756), (74, 50819), (83, 50861), (84, 50864), (92, 50924), (101, 51002), (115, 51098), (116, 51101),

Gene: Bombshell_81 Start: 47896, Stop: 47426, Start Num: 35

Candidate Starts for Bombshell_81:

(Start: 30 @47914 has 3 MA's), (Start: 35 @47896 has 155 MA's), (Start: 40 @47887 has 1 MA's), (Start: 44 @47884 has 21 MA's), (54, 47866), (62, 47827), (83, 47692), (97, 47575),

Gene: Boohoo_86 Start: 46608, Stop: 46141, Start Num: 36

Candidate Starts for Boohoo_86:

(Start: 36 @46608 has 14 MA's), (Start: 52 @46596 has 64 MA's), (62, 46557), (64, 46542),

Gene: BoomerJR_215 Start: 106090, Stop: 106527, Start Num: 52

Candidate Starts for BoomerJR_215:

(Start: 52 @106090 has 64 MA's), (62, 106129), (Start: 69 @106180 has 1 MA's), (70, 106183), (73, 106219), (89, 106303),

Gene: BoostSeason_81 Start: 52795, Stop: 53367, Start Num: 48

Candidate Starts for BoostSeason_81:

(Start: 48 @52795 has 12 MA's), (Start: 52 @52807 has 64 MA's), (76, 52954), (83, 52981), (84, 52984), (92, 53044), (129, 53308), (131, 53323),

Gene: Bordeaux_214 Start: 105446, Stop: 105883, Start Num: 52

Candidate Starts for Bordeaux_214:

(33, 105398), (Start: 52 @105446 has 64 MA's), (62, 105485), (Start: 69 @105536 has 1 MA's), (70, 105539), (73, 105575),

Gene: Brizzy_215 Start: 105973, Stop: 106410, Start Num: 52

Candidate Starts for Brizzy_215:

(37, 105943), (Start: 52 @105973 has 64 MA's), (62, 106012), (Start: 69 @106063 has 1 MA's), (73, 106102),

Gene: Broseidon_81 Start: 47902, Stop: 47432, Start Num: 35

Candidate Starts for Broseidon_81:

(Start: 30 @47920 has 3 MA's), (Start: 35 @47902 has 155 MA's), (Start: 40 @47893 has 1 MA's), (Start: 44 @47890 has 21 MA's), (54, 47872), (62, 47833), (76, 47725), (83, 47698), (92, 47635), (97, 47581),

Gene: Bruiser_80 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for Bruiser_80:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's), (Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (83, 47695), (97, 47578),

Gene: Bryler_82 Start: 50964, Stop: 51536, Start Num: 44

Candidate Starts for Bryler_82:

(Start: 44 @50964 has 21 MA's), (Start: 52 @50985 has 64 MA's), (67, 51054), (71, 51087), (73, 51108), (76, 51132), (84, 51162), (92, 51222), (101, 51300), (107, 51354), (111, 51378), (121, 51429), (133, 51516),

Gene: BubbleTrouble_80 Start: 47926, Stop: 47456, Start Num: 35

Candidate Starts for BubbleTrouble_80:

(Start: 30 @47944 has 3 MA's), (Start: 35 @47926 has 155 MA's), (Start: 40 @47917 has 1 MA's), (Start: 44 @47914 has 21 MA's), (54, 47896), (62, 47857), (76, 47749), (83, 47722), (92, 47659), (97, 47605),

Gene: Bumblebee11_76 Start: 47517, Stop: 47050, Start Num: 35

Candidate Starts for Bumblebee11_76:

(Start: 30 @47535 has 3 MA's), (Start: 35 @47517 has 155 MA's), (Start: 40 @47508 has 1 MA's), (Start: 44 @47505 has 21 MA's), (54, 47487), (62, 47448), (83, 47313), (92, 47250), (97, 47196),

Gene: Burger_79 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for Burger_79:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's), (Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (83, 47695), (97, 47578),

Gene: CREW_75 Start: 50461, Stop: 50922, Start Num: 41

Candidate Starts for CREW_75:

(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: Caelakin_79 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for Caelakin_79:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's), (Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (83, 47695), (97, 47578),

Gene: Cain_82 Start: 50952, Stop: 51524, Start Num: 44

Candidate Starts for Cain_82:

(Start: 44 @50952 has 21 MA's), (Start: 52 @50973 has 64 MA's), (67, 51042), (71, 51075), (73, 51096), (76, 51120), (84, 51150), (92, 51210), (101, 51288), (107, 51342), (111, 51366), (121, 51417), (133, 51504),

Gene: CallaLilly_76 Start: 50384, Stop: 50845, Start Num: 41

Candidate Starts for CallaLilly_76:

(Start: 41 @50384 has 65 MA's), (Start: 52 @50411 has 64 MA's), (56, 50420), (67, 50480), (74, 50543), (83, 50585), (84, 50588), (92, 50648), (101, 50726), (115, 50822), (116, 50825),

Gene: Camperdownii_77 Start: 47142, Stop: 46675, Start Num: 35

Candidate Starts for Camperdownii_77:

(Start: 30 @47160 has 3 MA's), (Start: 35 @47142 has 155 MA's), (Start: 40 @47133 has 1 MA's), (Start: 44 @47130 has 21 MA's), (54, 47112), (62, 47073), (83, 46938), (97, 46821),

Gene: Candra_82 Start: 46048, Stop: 45587, Start Num: 38

Candidate Starts for Candra_82:

(Start: 38 @46048 has 38 MA's), (Start: 52 @46021 has 64 MA's), (65, 45961), (76, 45868), (101, 45700),

Gene: Capricorn_76 Start: 50461, Stop: 50922, Start Num: 41

Candidate Starts for Capricorn_76:

(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: CaseJules_78 Start: 50658, Stop: 51119, Start Num: 41

Candidate Starts for CaseJules_78:

(Start: 41 @50658 has 65 MA's), (Start: 52 @50685 has 64 MA's), (56, 50694), (67, 50754), (74, 50817), (83, 50859), (84, 50862), (92, 50922), (101, 51000), (115, 51096), (116, 51099),

Gene: Cece_19 Start: 6614, Stop: 7075, Start Num: 50

Candidate Starts for Cece_19:

(24, 6542), (49, 6611), (Start: 50 @6614 has 2 MA's), (58, 6638), (74, 6755), (76, 6770), (82, 6794), (87, 6809), (95, 6875), (96, 6884), (108, 6998), (120, 7070),

Gene: Cece_321 Start: 175048, Stop: 175509, Start Num: 50

Candidate Starts for Cece_321:

(24, 174976), (49, 175045), (Start: 50 @175048 has 2 MA's), (58, 175072), (74, 175189), (76, 175204), (82, 175228), (87, 175243), (95, 175309), (96, 175318), (108, 175432), (120, 175504),

Gene: CeilingFan_220 Start: 106240, Stop: 106677, Start Num: 52

Candidate Starts for CeilingFan_220:

(33, 106192), (Start: 52 @106240 has 64 MA's), (62, 106279), (Start: 69 @106330 has 1 MA's), (70, 106333), (73, 106369),

Gene: CentreCat_81 Start: 47939, Stop: 47469, Start Num: 35

Candidate Starts for CentreCat_81:

(Start: 30 @47957 has 3 MA's), (Start: 35 @47939 has 155 MA's), (Start: 40 @47930 has 1 MA's), (Start: 44 @47927 has 21 MA's), (54, 47909), (62, 47870), (83, 47735), (97, 47618),

Gene: Cerulean_83 Start: 48337, Stop: 47867, Start Num: 35

Candidate Starts for Cerulean_83:

(Start: 30 @48355 has 3 MA's), (Start: 35 @48337 has 155 MA's), (Start: 40 @48328 has 1 MA's), (Start: 44 @48325 has 21 MA's), (54, 48307), (62, 48268), (83, 48133), (97, 48016),

Gene: Chaewon_201 Start: 106069, Stop: 106509, Start Num: 56

Candidate Starts for Chaewon_201:

(21, 105952), (28, 106003), (37, 106030), (Start: 52 @106060 has 64 MA's), (56, 106069), (59, 106084), (62, 106099), (74, 106192), (113, 106468),

Gene: ChampagnePapi_84 Start: 48339, Stop: 47869, Start Num: 35

Candidate Starts for ChampagnePapi_84:

(Start: 30 @48357 has 3 MA's), (Start: 35 @48339 has 155 MA's), (Start: 40 @48330 has 1 MA's), (Start: 44 @48327 has 21 MA's), (54, 48309), (62, 48270), (83, 48135), (97, 48018),

Gene: Chancellor_81 Start: 51093, Stop: 51677, Start Num: 44

Candidate Starts for Chancellor_81:

(8, 50895), (11, 50910), (14, 50946), (16, 50967), (20, 50994), (23, 51024), (Start: 39 @51084 has 2 MA's), (Start: 44 @51093 has 21 MA's), (Start: 47 @51102 has 12 MA's), (Start: 52 @51117 has 64 MA's), (67, 51186), (76, 51264), (83, 51291), (92, 51354), (101, 51432), (128, 51606), (130, 51621), (132, 51645),

Gene: Chaph_81 Start: 47910, Stop: 47440, Start Num: 35

Candidate Starts for Chaph_81:

(Start: 30 @47928 has 3 MA's), (Start: 35 @47910 has 155 MA's), (Start: 40 @47901 has 1 MA's), (Start: 44 @47898 has 21 MA's), (54, 47880), (62, 47841), (83, 47706), (97, 47589),

Gene: Chartreuse_83 Start: 45350, Stop: 44898, Start Num: 38

Candidate Starts for Chartreuse_83:

(Start: 38 @45350 has 38 MA's), (Start: 52 @45323 has 64 MA's), (67, 45257), (76, 45179), (101, 45011),

Gene: CheetoDust_76 Start: 50058, Stop: 50519, Start Num: 41

Candidate Starts for CheetoDust_76:

(Start: 41 @50058 has 65 MA's), (Start: 52 @50085 has 64 MA's), (56, 50094), (67, 50154), (74, 50217), (83, 50259), (84, 50262), (101, 50400), (115, 50496), (116, 50499),

Gene: Cheetobro_81 Start: 51228, Stop: 51812, Start Num: 44

Candidate Starts for Cheetobro_81:

(8, 51039), (14, 51090), (20, 51144), (23, 51174), (Start: 39 @51219 has 2 MA's), (Start: 44 @51228 has 21 MA's), (Start: 47 @51237 has 12 MA's), (Start: 52 @51252 has 64 MA's), (67, 51321), (76, 51399), (77, 51402), (83, 51426), (88, 51447), (92, 51489), (101, 51567), (128, 51741), (132, 51780),

Gene: Chupacabra_77 Start: 47509, Stop: 47042, Start Num: 34

Candidate Starts for Chupacabra_77:

(Start: 30 @47524 has 3 MA's), (Start: 34 @47509 has 8 MA's), (42, 47494), (Start: 52 @47482 has 64 MA's), (67, 47413), (76, 47335), (83, 47308), (97, 47191),

Gene: Cici_77 Start: 47530, Stop: 47063, Start Num: 35

Candidate Starts for Cici_77:

(Start: 30 @47548 has 3 MA's), (Start: 35 @47530 has 155 MA's), (Start: 40 @47521 has 1 MA's), (Start: 44 @47518 has 21 MA's), (54, 47500), (62, 47461), (83, 47326), (92, 47263), (97, 47209),

Gene: Cindaradix_76 Start: 48112, Stop: 47648, Start Num: 35

Candidate Starts for Cindaradix_76:

(Start: 30 @48130 has 3 MA's), (Start: 35 @48112 has 155 MA's), (Start: 44 @48097 has 21 MA's), (Start: 52 @48085 has 64 MA's), (67, 48016), (83, 47911), (97, 47794),

Gene: Cintron_81 Start: 48015, Stop: 47545, Start Num: 35

Candidate Starts for Cintron_81:

(Start: 30 @48033 has 3 MA's), (Start: 35 @48015 has 155 MA's), (Start: 40 @48006 has 1 MA's), (Start: 44 @48003 has 21 MA's), (54, 47985), (62, 47946), (83, 47811), (97, 47694),

Gene: Circinus_199 Start: 105749, Stop: 106198, Start Num: 52

Candidate Starts for Circinus_199:

(28, 105692), (37, 105719), (Start: 52 @105749 has 64 MA's), (56, 105758), (59, 105773), (62, 105788), (109, 106133),

Gene: Citius_81 Start: 47920, Stop: 47450, Start Num: 35

Candidate Starts for Citius_81:

(Start: 30 @47938 has 3 MA's), (Start: 35 @47920 has 155 MA's), (Start: 40 @47911 has 1 MA's), (Start: 44 @47908 has 21 MA's), (54, 47890), (62, 47851), (76, 47743), (83, 47716), (92, 47653), (97, 47599),

Gene: Clarenza_80 Start: 47896, Stop: 47426, Start Num: 35

Candidate Starts for Clarenza_80:

(Start: 30 @47914 has 3 MA's), (Start: 35 @47896 has 155 MA's), (Start: 40 @47887 has 1 MA's), (Start: 44 @47884 has 21 MA's), (54, 47866), (62, 47827), (83, 47692), (97, 47575),

Gene: CloudWang3_86 Start: 46525, Stop: 46091, Start Num: 52

Candidate Starts for CloudWang3_86:

(Start: 38 @46552 has 38 MA's), (Start: 52 @46525 has 64 MA's), (65, 46465), (76, 46372), (96, 46258), (101, 46204),

Gene: Cocoaberry_81 Start: 47900, Stop: 47430, Start Num: 35

Candidate Starts for Cocoaberry_81:

(Start: 30 @47918 has 3 MA's), (Start: 35 @47900 has 155 MA's), (Start: 40 @47891 has 1 MA's), (Start: 44 @47888 has 21 MA's), (54, 47870), (62, 47831), (83, 47696), (97, 47579),

Gene: Commander_79 Start: 47900, Stop: 47427, Start Num: 35

Candidate Starts for Commander_79:

(Start: 30 @47918 has 3 MA's), (Start: 35 @47900 has 155 MA's), (55, 47867), (62, 47828), (64, 47813), (71, 47765), (83, 47693), (97, 47576),

Gene: Comrade_233 Start: 115408, Stop: 115866, Start Num: 52

Candidate Starts for Comrade_233:

(Start: 50 @115405 has 2 MA's), (Start: 52 @115408 has 64 MA's), (62, 115447), (74, 115546), (77, 115564), (86, 115597), (90, 115624), (101, 115732), (117, 115852), (118, 115855),

Gene: Connomayer_81 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for Connomayer_81:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's), (Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (76, 47722), (83, 47695), (92, 47632), (97, 47578),

Gene: Cookiedough_84 Start: 46657, Stop: 46205, Start Num: 38

Candidate Starts for Cookiedough_84:

(Start: 38 @46657 has 38 MA's), (Start: 52 @46630 has 64 MA's), (67, 46564), (76, 46486), (101, 46318),

Gene: DaVinci_82 Start: 45404, Stop: 44952, Start Num: 38

Candidate Starts for DaVinci_82:

(Start: 38 @45404 has 38 MA's), (Start: 52 @45377 has 64 MA's), (67, 45311), (76, 45233), (101, 45065),

Gene: Dalmuri_76 Start: 50461, Stop: 50922, Start Num: 41

Candidate Starts for Dalmuri_76:

(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: DanSyl44_84 Start: 52479, Stop: 53063, Start Num: 44

Candidate Starts for DanSyl44_84:

(8, 52290), (14, 52341), (20, 52395), (23, 52425), (Start: 39 @52470 has 2 MA's), (Start: 44 @52479 has 21 MA's), (Start: 47 @52488 has 12 MA's), (Start: 52 @52503 has 64 MA's), (67, 52572), (76, 52650), (83, 52677), (92, 52740), (101, 52818), (128, 52992), (132, 53031),

Gene: DartGoblin_79 Start: 50684, Stop: 51145, Start Num: 41

Candidate Starts for DartGoblin_79:

(Start: 41 @50684 has 65 MA's), (Start: 52 @50711 has 64 MA's), (56, 50720), (61, 50747), (67, 50780), (74, 50843), (84, 50888), (101, 51026), (115, 51122), (116, 51125),

Gene: Datway_78 Start: 47710, Stop: 47240, Start Num: 35

Candidate Starts for Datway_78:

(Start: 30 @47728 has 3 MA's), (Start: 35 @47710 has 155 MA's), (Start: 40 @47701 has 1 MA's), (Start: 44 @47698 has 21 MA's), (54, 47680), (62, 47641), (83, 47506), (97, 47389),

Gene: Deano_78 Start: 47907, Stop: 47437, Start Num: 35

Candidate Starts for Deano_78:

(Start: 30 @47925 has 3 MA's), (Start: 35 @47907 has 155 MA's), (Start: 40 @47898 has 1 MA's), (Start: 44 @47895 has 21 MA's), (54, 47877), (62, 47838), (76, 47730), (83, 47703), (92, 47640), (97, 47586),

Gene: Deby_76 Start: 50830, Stop: 51291, Start Num: 41

Candidate Starts for Deby_76:

(Start: 41 @50830 has 65 MA's), (Start: 52 @50857 has 64 MA's), (56, 50866), (67, 50926), (74, 50989), (83, 51031), (84, 51034), (101, 51172), (115, 51268), (116, 51271),

Gene: DekHockey33_89 Start: 47389, Stop: 46922, Start Num: 36

Candidate Starts for DekHockey33_89:

(Start: 36 @47389 has 14 MA's), (Start: 52 @47377 has 64 MA's), (62, 47338), (64, 47323),

Gene: DeluluLabubu_241 Start: 115489, Stop: 115944, Start Num: 52

Candidate Starts for DeluluLabubu_241:

(29, 115435), (Start: 50 @115486 has 2 MA's), (Start: 52 @115489 has 64 MA's), (61, 115525), (62, 115528), (74, 115627), (75, 115639), (86, 115678), (92, 115729), (101, 115810), (117, 115930), (118, 115933),

Gene: Dhanush_81 Start: 47902, Stop: 47432, Start Num: 35

Candidate Starts for Dhanush_81:

(Start: 30 @47920 has 3 MA's), (Start: 35 @47902 has 155 MA's), (Start: 40 @47893 has 1 MA's), (Start: 44 @47890 has 21 MA's), (54, 47872), (62, 47833), (83, 47698), (97, 47581),

Gene: DirtyDunning_80 Start: 47911, Stop: 47441, Start Num: 35

Candidate Starts for DirtyDunning_80:

(Start: 30 @47929 has 3 MA's), (Start: 35 @47911 has 155 MA's), (Start: 40 @47902 has 1 MA's), (Start: 44 @47899 has 21 MA's), (54, 47881), (62, 47842), (76, 47734), (83, 47707), (92, 47644), (97, 47590),

Gene: DismalFunk_82 Start: 53325, Stop: 53894, Start Num: 48

Candidate Starts for DismalFunk_82:

(Start: 48 @53325 has 12 MA's), (Start: 52 @53334 has 64 MA's), (60, 53364), (71, 53436), (76, 53481), (83, 53508), (84, 53511), (92, 53571), (129, 53835), (131, 53850),

Gene: DismalStressor_82 Start: 53325, Stop: 53894, Start Num: 48

Candidate Starts for DismalStressor_82:

(Start: 48 @53325 has 12 MA's), (Start: 52 @53334 has 64 MA's), (60, 53364), (71, 53436), (76, 53481), (83, 53508), (84, 53511), (92, 53571), (129, 53835), (131, 53850),

Gene: DontArgue_75 Start: 46372, Stop: 45908, Start Num: 35

Candidate Starts for DontArgue_75:

(Start: 35 @46372 has 155 MA's), (Start: 52 @46348 has 64 MA's), (76, 46201), (83, 46174), (94, 46099), (97, 46057),

Gene: Dorin_235 Start: 120741, Stop: 121214, Start Num: 52

Candidate Starts for Dorin_235:

(49, 120735), (Start: 52 @120741 has 64 MA's), (65, 120801), (76, 120897), (92, 120987), (96, 121011), (107, 121119), (113, 121158), (119, 121194), (122, 121206),

Gene: Dorothea_84 Start: 46650, Stop: 46198, Start Num: 38

Candidate Starts for Dorothea_84:

(Start: 38 @46650 has 38 MA's), (Start: 52 @46623 has 64 MA's), (67, 46557), (76, 46479), (101, 46311),

Gene: Doughnut_82 Start: 52967, Stop: 53548, Start Num: 48

Candidate Starts for Doughnut_82:

(Start: 48 @52967 has 12 MA's), (Start: 52 @52979 has 64 MA's), (76, 53126), (83, 53153), (84, 53156), (92, 53216), (123, 53432), (129, 53489), (131, 53504),

Gene: DrHayes_76 Start: 50854, Stop: 51315, Start Num: 41

Candidate Starts for DrHayes_76:

(Start: 41 @50854 has 65 MA's), (Start: 52 @50881 has 64 MA's), (56, 50890), (61, 50917), (67, 50950), (74, 51013), (84, 51058), (101, 51196), (115, 51292), (116, 51295),

Gene: Drake94_77 Start: 46666, Stop: 46199, Start Num: 35

Candidate Starts for Drake94_77:

(Start: 35 @46666 has 155 MA's), (Start: 40 @46657 has 1 MA's), (Start: 52 @46642 has 64 MA's), (67, 46573), (92, 46405),

Gene: DroogsArmy_77 Start: 49905, Stop: 49435, Start Num: 34

Candidate Starts for DroogsArmy_77:

(7, 50100), (9, 50079), (Start: 30 @49920 has 3 MA's), (Start: 34 @49905 has 8 MA's), (Start: 40 @49893 has 1 MA's), (Start: 52 @49872 has 64 MA's), (76, 49725), (83, 49698), (93, 49632), (96, 49614),

Gene: Druantia_79 Start: 47726, Stop: 47259, Start Num: 35

Candidate Starts for Druantia_79:

(Start: 30 @47744 has 3 MA's), (Start: 35 @47726 has 155 MA's), (Start: 40 @47717 has 1 MA's), (Start: 44 @47714 has 21 MA's), (54, 47696), (62, 47657), (83, 47522), (92, 47459), (97, 47405),

Gene: Durfee_76 Start: 50658, Stop: 51119, Start Num: 41

Candidate Starts for Durfee_76:

(Start: 41 @50658 has 65 MA's), (Start: 52 @50685 has 64 MA's), (56, 50694), (67, 50754), (74, 50817), (83, 50859), (84, 50862), (92, 50922), (101, 51000), (115, 51096), (116, 51099),

Gene: DustyMartin_82 Start: 47658, Stop: 47191, Start Num: 35

Candidate Starts for DustyMartin_82:

(Start: 35 @47658 has 155 MA's), (Start: 40 @47649 has 1 MA's), (Start: 52 @47631 has 64 MA's), (76, 47484), (83, 47457), (94, 47382), (97, 47340),

Gene: Eagle_80 Start: 47961, Stop: 47491, Start Num: 35

Candidate Starts for Eagle_80:

(Start: 30 @47979 has 3 MA's), (Start: 35 @47961 has 155 MA's), (Start: 40 @47952 has 1 MA's), (Start: 44 @47949 has 21 MA's), (54, 47931), (62, 47892), (83, 47757), (97, 47640),

Gene: Eaglepride_83 Start: 47586, Stop: 47122, Start Num: 35

Candidate Starts for Eaglepride_83:

(Start: 35 @47586 has 155 MA's), (Start: 40 @47577 has 1 MA's), (Start: 52 @47562 has 64 MA's), (67, 47493),

Gene: Eapen_81 Start: 47894, Stop: 47424, Start Num: 35

Candidate Starts for Eapen_81:

(Start: 30 @47912 has 3 MA's), (Start: 35 @47894 has 155 MA's), (Start: 40 @47885 has 1 MA's), (Start: 44 @47882 has 21 MA's), (54, 47864), (62, 47825), (83, 47690), (97, 47573),

Gene: Efra2_83 Start: 51293, Stop: 51754, Start Num: 41

Candidate Starts for Efra2_83:

(Start: 41 @51293 has 65 MA's), (Start: 52 @51320 has 64 MA's), (56, 51329), (67, 51389), (71, 51422), (75, 51464), (83, 51494), (84, 51497), (92, 51557), (101, 51635), (115, 51731), (116, 51734),

Gene: Elle_86 Start: 46854, Stop: 46387, Start Num: 36

Candidate Starts for Elle_86:

(Start: 36 @46854 has 14 MA's), (Start: 52 @46842 has 64 MA's), (62, 46803), (78, 46686), (94, 46590),

Gene: Elmer_227 Start: 109351, Stop: 109788, Start Num: 52

Candidate Starts for Elmer_227:

(Start: 52 @109351 has 64 MA's), (62, 109390), (Start: 69 @109441 has 1 MA's), (70, 109444), (73, 109480),

Gene: Emerson_79 Start: 50897, Stop: 51358, Start Num: 41

Candidate Starts for Emerson_79:

(Start: 41 @50897 has 65 MA's), (Start: 52 @50924 has 64 MA's), (56, 50933), (67, 50993), (74, 51056), (84, 51101), (101, 51239), (115, 51335), (116, 51338),

Gene: Emma1919_241 Start: 114442, Stop: 114897, Start Num: 52

Candidate Starts for Emma1919_241:

(29, 114388), (Start: 50 @114439 has 2 MA's), (Start: 52 @114442 has 64 MA's), (61, 114478), (62, 114481), (74, 114580), (75, 114592), (86, 114631), (92, 114682), (101, 114763), (117, 114883), (118, 114886),

Gene: Enygma_226 Start: 109104, Stop: 109541, Start Num: 51

Candidate Starts for Enygma_226:

(19, 108981), (Start: 51 @109104 has 1 MA's), (62, 109143), (Start: 69 @109194 has 1 MA's), (73, 109233), (74, 109242),

Gene: Eponine_83 Start: 52075, Stop: 52659, Start Num: 44

Candidate Starts for Eponine_83:

(8, 51886), (14, 51937), (20, 51991), (23, 52021), (Start: 39 @52066 has 2 MA's), (Start: 44 @52075 has 21 MA's), (Start: 47 @52084 has 12 MA's), (Start: 52 @52099 has 64 MA's), (67, 52168), (76, 52246), (83, 52273), (92, 52336), (101, 52414), (128, 52588), (132, 52627),

Gene: Eris_80 Start: 47911, Stop: 47441, Start Num: 35

Candidate Starts for Eris_80:

(Start: 30 @47929 has 3 MA's), (Start: 35 @47911 has 155 MA's), (Start: 40 @47902 has 1 MA's), (Start: 44 @47899 has 21 MA's), (54, 47881), (62, 47842), (83, 47707), (97, 47590),

Gene: Eros_81 Start: 47904, Stop: 47431, Start Num: 35

Candidate Starts for Eros_81:

(Start: 30 @47922 has 3 MA's), (Start: 35 @47904 has 155 MA's), (55, 47871), (62, 47832), (64, 47817), (71, 47769), (83, 47697), (97, 47580),

Gene: Eurydice_82 Start: 47936, Stop: 47466, Start Num: 35

Candidate Starts for Eurydice_82:

(Start: 30 @47954 has 3 MA's), (Start: 35 @47936 has 155 MA's), (Start: 40 @47927 has 1 MA's), (Start: 44 @47924 has 21 MA's), (54, 47906), (62, 47867), (83, 47732), (97, 47615),

Gene: Faust_238 Start: 116256, Stop: 116714, Start Num: 52

Candidate Starts for Faust_238:

(29, 116202), (Start: 52 @116256 has 64 MA's), (62, 116295), (80, 116424), (86, 116445), (104, 116604), (106, 116619), (117, 116700),

Gene: Findley_82 Start: 53343, Stop: 53912, Start Num: 48

Candidate Starts for Findley_82:

(Start: 48 @53343 has 12 MA's), (Start: 52 @53352 has 64 MA's), (60, 53382), (71, 53454), (76, 53499), (83, 53526), (84, 53529), (92, 53589), (129, 53853), (131, 53868),

Gene: Fionnbharth_81 Start: 51473, Stop: 52057, Start Num: 44

Candidate Starts for Fionnbharth_81:

(8, 51284), (14, 51335), (20, 51389), (23, 51419), (Start: 39 @51464 has 2 MA's), (Start: 44 @51473 has 21 MA's), (Start: 47 @51482 has 12 MA's), (Start: 52 @51497 has 64 MA's), (67, 51566), (76, 51644), (83, 51671), (92, 51734), (101, 51812), (128, 51986), (132, 52025),

Gene: Florean_81 Start: 47898, Stop: 47428, Start Num: 35

Candidate Starts for Florean_81:

(Start: 30 @47916 has 3 MA's), (Start: 35 @47898 has 155 MA's), (Start: 40 @47889 has 1 MA's), (Start: 44 @47886 has 21 MA's), (54, 47868), (62, 47829), (76, 47721), (83, 47694), (92, 47631), (97, 47577),

Gene: Flux_82 Start: 47897, Stop: 47427, Start Num: 35

Candidate Starts for Flux_82:

(Start: 30 @47915 has 3 MA's), (Start: 35 @47897 has 155 MA's), (Start: 40 @47888 has 1 MA's), (Start: 44 @47885 has 21 MA's), (54, 47867), (62, 47828), (83, 47693), (97, 47576),

Gene: FlyCatcher_81 Start: 50450, Stop: 49965, Start Num: 32

Candidate Starts for FlyCatcher_81:

(32, 50450), (Start: 34 @50438 has 8 MA's), (Start: 52 @50405 has 64 MA's), (61, 50369), (67, 50336), (76, 50258), (83, 50231), (92, 50168), (96, 50144), (115, 49988), (116, 49985),

Gene: Forrest_239 Start: 115200, Stop: 115655, Start Num: 52

Candidate Starts for Forrest_239:

(29, 115146), (Start: 50 @115197 has 2 MA's), (Start: 52 @115200 has 64 MA's), (61, 115236), (62, 115239), (74, 115338), (75, 115350), (86, 115389), (92, 115440), (101, 115521), (117, 115641), (118, 115644),

Gene: Francesca_236 Start: 121384, Stop: 121857, Start Num: 52

Candidate Starts for Francesca_236:

(49, 121378), (Start: 52 @121384 has 64 MA's), (65, 121444), (76, 121540), (92, 121630), (96, 121654), (107, 121762), (113, 121801), (119, 121837), (122, 121849),

Gene: Francob_244 Start: 115817, Stop: 116272, Start Num: 52

Candidate Starts for Francob_244:

(Start: 50 @115814 has 2 MA's), (Start: 52 @115817 has 64 MA's), (62, 115856), (74, 115955), (75, 115967), (86, 116006), (92, 116057), (101, 116138), (117, 116258), (118, 116261),

Gene: Funston_80 Start: 47896, Stop: 47426, Start Num: 35

Candidate Starts for Funston_80:

(Start: 30 @47914 has 3 MA's), (Start: 35 @47896 has 155 MA's), (Start: 40 @47887 has 1 MA's), (Start: 44 @47884 has 21 MA's), (54, 47866), (62, 47827), (83, 47692), (97, 47575),

Gene: Gadost_81 Start: 47900, Stop: 47430, Start Num: 35

Candidate Starts for Gadost_81:

(Start: 30 @47918 has 3 MA's), (Start: 35 @47900 has 155 MA's), (Start: 40 @47891 has 1 MA's), (Start: 44 @47888 has 21 MA's), (54, 47870), (62, 47831), (83, 47696), (97, 47579),

Gene: Gail_85 Start: 47839, Stop: 47372, Start Num: 44

Candidate Starts for Gail_85:

(Start: 44 @47839 has 21 MA's), (Start: 52 @47827 has 64 MA's), (76, 47674), (83, 47647), (88, 47626), (92, 47587), (102, 47497), (105, 47476),

Gene: Garak_87 Start: 46485, Stop: 46024, Start Num: 38

Candidate Starts for Garak_87:

(Start: 38 @46485 has 38 MA's), (Start: 52 @46458 has 64 MA's), (65, 46398), (76, 46305), (96, 46191),

Gene: Genie2_215 Start: 106215, Stop: 106652, Start Num: 52

Candidate Starts for Genie2_215:

(Start: 52 @106215 has 64 MA's), (62, 106254), (Start: 69 @106305 has 1 MA's), (70, 106308), (73, 106344), (89, 106428),

Gene: Gibbi_224 Start: 105733, Stop: 106170, Start Num: 52

Candidate Starts for Gibbi_224:

(33, 105685), (Start: 52 @105733 has 64 MA's), (62, 105772), (Start: 69 @105823 has 1 MA's), (70, 105826), (73, 105862),

Gene: Gilson_240 Start: 115082, Stop: 115537, Start Num: 52

Candidate Starts for Gilson_240:

(Start: 50 @115079 has 2 MA's), (Start: 52 @115082 has 64 MA's), (62, 115121), (74, 115220), (75, 115232), (86, 115271), (92, 115322), (101, 115403), (117, 115523), (118, 115526),

Gene: Gladiator_82 Start: 46208, Stop: 45747, Start Num: 38

Candidate Starts for Gladiator_82:

(Start: 38 @46208 has 38 MA's), (Start: 52 @46181 has 64 MA's), (65, 46121), (76, 46028), (96, 45914), (101, 45860),

Gene: Goose_81 Start: 47320, Stop: 46853, Start Num: 34

Candidate Starts for Goose_81:

(Start: 30 @47335 has 3 MA's), (Start: 34 @47320 has 8 MA's), (42, 47305), (Start: 52 @47293 has 64 MA's), (67, 47224), (76, 47146), (83, 47119), (97, 47002),

Gene: GreedyLawyer_78 Start: 45978, Stop: 45517, Start Num: 38

Candidate Starts for GreedyLawyer_78:

(Start: 38 @45978 has 38 MA's), (Start: 52 @45951 has 64 MA's), (65, 45891), (76, 45798), (101, 45630),

Gene: Greely_237 Start: 134475, Stop: 134945, Start Num: 47

Candidate Starts for Greely_237:

(Start: 47 @134475 has 12 MA's), (Start: 52 @134490 has 64 MA's), (76, 134637), (83, 134664), (92, 134724),

Gene: Gruunaga_85 Start: 46163, Stop: 45702, Start Num: 38

Candidate Starts for Gruunaga_85:

(Start: 38 @46163 has 38 MA's), (Start: 52 @46136 has 64 MA's), (65, 46076), (76, 45983), (96, 45869), (101, 45815),

Gene: Guanica15_82 Start: 51039, Stop: 51500, Start Num: 41

Candidate Starts for Guanica15_82:

(Start: 41 @51039 has 65 MA's), (Start: 52 @51066 has 64 MA's), (56, 51075), (67, 51135), (75, 51210), (83, 51240), (84, 51243), (92, 51303), (101, 51381), (115, 51477),

Gene: HINdeR_77 Start: 49316, Stop: 48840, Start Num: 34

Candidate Starts for HINdeR_77:

(Start: 30 @49331 has 3 MA's), (Start: 34 @49316 has 8 MA's), (Start: 38 @49307 has 38 MA's), (Start: 40 @49304 has 1 MA's), (Start: 47 @49292 has 12 MA's), (Start: 48 @49289 has 12 MA's), (Start: 50 @49280 has 2 MA's), (Start: 52 @49277 has 64 MA's), (54, 49271), (62, 49238), (91, 49058), (108, 48905),

Gene: HamSlice_77 Start: 47898, Stop: 47428, Start Num: 35

Candidate Starts for HamSlice_77:

(Start: 30 @47916 has 3 MA's), (Start: 35 @47898 has 155 MA's), (Start: 40 @47889 has 1 MA's), (Start: 44 @47886 has 21 MA's), (54, 47868), (62, 47829), (76, 47721), (83, 47694), (92, 47631), (97, 47577),

Gene: Hammer_86 Start: 45843, Stop: 45409, Start Num: 52

Candidate Starts for Hammer_86:

(Start: 38 @45870 has 38 MA's), (Start: 52 @45843 has 64 MA's), (65, 45783), (76, 45690), (96, 45576), (101, 45522),

Gene: Happiness_80 Start: 47922, Stop: 47452, Start Num: 35

Candidate Starts for Happiness_80:

(Start: 30 @47940 has 3 MA's), (Start: 35 @47922 has 155 MA's), (Start: 40 @47913 has 1 MA's), (Start: 44 @47910 has 21 MA's), (54, 47892), (62, 47853), (83, 47718), (97, 47601),

Gene: HedwigODU_76 Start: 50506, Stop: 50967, Start Num: 41

Candidate Starts for HedwigODU_76:

(Start: 41 @50506 has 65 MA's), (Start: 52 @50533 has 64 MA's), (56, 50542), (67, 50602), (74, 50665), (83, 50707), (84, 50710), (92, 50770), (101, 50848), (115, 50944), (116, 50947),

Gene: Helmet_88 Start: 46485, Stop: 46024, Start Num: 38

Candidate Starts for Helmet_88:

(Start: 38 @46485 has 38 MA's), (Start: 52 @46458 has 64 MA's), (65, 46398), (76, 46305), (96, 46191),

Gene: Herbertwm_78 Start: 46898, Stop: 46428, Start Num: 34

Candidate Starts for Herbertwm_78:

(Start: 34 @46898 has 8 MA's), (Start: 52 @46868 has 64 MA's), (57, 46856), (61, 46832), (73, 46745), (76, 46721), (83, 46694), (84, 46691), (92, 46631),

Gene: Hexamo_85 Start: 46038, Stop: 45577, Start Num: 38

Candidate Starts for Hexamo_85:

(Start: 38 @46038 has 38 MA's), (Start: 52 @46011 has 64 MA's), (65, 45951), (76, 45858), (96, 45744), (101, 45690),

Gene: Holli_80 Start: 47689, Stop: 47219, Start Num: 35

Candidate Starts for Holli_80:

(Start: 30 @47707 has 3 MA's), (Start: 35 @47689 has 155 MA's), (Start: 40 @47680 has 1 MA's), (Start: 44 @47677 has 21 MA's), (54, 47659), (62, 47620), (76, 47512), (83, 47485), (92, 47422), (97, 47368),

Gene: Homura_75 Start: 50461, Stop: 50922, Start Num: 41

Candidate Starts for Homura_75:

(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: Hoot_79 Start: 43863, Stop: 43402, Start Num: 38

Candidate Starts for Hoot_79:

(Start: 38 @43863 has 38 MA's), (Start: 52 @43836 has 64 MA's), (65, 43776), (76, 43683), (101, 43515),

Gene: Houdini22_80 Start: 47900, Stop: 47430, Start Num: 35

Candidate Starts for Houdini22_80:

(Start: 30 @47918 has 3 MA's), (Start: 35 @47900 has 155 MA's), (Start: 40 @47891 has 1 MA's), (Start: 44 @47888 has 21 MA's), (54, 47870), (62, 47831), (83, 47696), (97, 47579),

Gene: Hurricane_79 Start: 51359, Stop: 51922, Start Num: 18

Candidate Starts for Hurricane_79:

(Start: 18 @51359 has 7 MA's), (25, 51416), (31, 51440), (Start: 52 @51491 has 64 MA's), (54, 51497), (61, 51527), (67, 51560), (71, 51593), (76, 51638), (90, 51701), (92, 51728), (107, 51860),

Gene: Huxley_70 Start: 45792, Stop: 45322, Start Num: 35

Candidate Starts for Huxley_70:

(Start: 30 @45810 has 3 MA's), (Start: 35 @45792 has 155 MA's), (Start: 40 @45783 has 1 MA's), (Start: 44 @45780 has 21 MA's), (54, 45762), (62, 45723), (83, 45588), (97, 45471),

Gene: Hyperbowlee_75 Start: 50658, Stop: 51119, Start Num: 41

Candidate Starts for Hyperbowlee_75:

(Start: 41 @50658 has 65 MA's), (Start: 52 @50685 has 64 MA's), (56, 50694), (67, 50754), (74, 50817), (83, 50859), (84, 50862), (92, 50922), (101, 51000), (115, 51096), (116, 51099),

Gene: ICleared_80 Start: 47967, Stop: 47497, Start Num: 35

Candidate Starts for ICleared_80:

(4, 48198), (Start: 30 @47985 has 3 MA's), (Start: 35 @47967 has 155 MA's), (Start: 40 @47958 has 1 MA's), (Start: 44 @47955 has 21 MA's), (54, 47937), (62, 47898), (83, 47763), (97, 47646),

Gene: Iceman_79 Start: 48189, Stop: 47719, Start Num: 35

Candidate Starts for Iceman_79:

(Start: 30 @48207 has 3 MA's), (Start: 35 @48189 has 155 MA's), (Start: 40 @48180 has 1 MA's), (Start: 44 @48177 has 21 MA's), (54, 48159), (62, 48120), (83, 47985), (97, 47868),

Gene: IchabodCrane_211 Start: 105248, Stop: 105685, Start Num: 52
Candidate Starts for IchabodCrane_211:
(33, 105200), (Start: 52 @105248 has 64 MA's), (62, 105287), (Start: 69 @105338 has 1 MA's), (70, 105341), (73, 105377),

Gene: Indra_89 Start: 46486, Stop: 46025, Start Num: 38
Candidate Starts for Indra_89:
(Start: 38 @46486 has 38 MA's), (Start: 52 @46459 has 64 MA's), (65, 46399), (76, 46306), (96, 46192),

Gene: Inky_76 Start: 50461, Stop: 50922, Start Num: 41
Candidate Starts for Inky_76:
(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: Iracema64_81 Start: 48163, Stop: 47693, Start Num: 35
Candidate Starts for Iracema64_81:
(Start: 30 @48181 has 3 MA's), (Start: 35 @48163 has 155 MA's), (Start: 40 @48154 has 1 MA's), (Start: 44 @48151 has 21 MA's), (54, 48133), (62, 48094), (83, 47959), (97, 47842),

Gene: IronMan_81 Start: 48725, Stop: 48255, Start Num: 35
Candidate Starts for IronMan_81:
(Start: 35 @48725 has 155 MA's), (Start: 40 @48716 has 1 MA's), (Start: 52 @48701 has 64 MA's), (92, 48461), (99, 48398),

Gene: Iwokeuplikedis_87 Start: 48540, Stop: 48067, Start Num: 35
Candidate Starts for Iwokeuplikedis_87:
(Start: 35 @48540 has 155 MA's), (Start: 40 @48531 has 1 MA's), (Start: 44 @48528 has 21 MA's), (Start: 52 @48516 has 64 MA's), (61, 48480), (83, 48336), (99, 48210),

Gene: JAWS_75 Start: 50423, Stop: 50884, Start Num: 41
Candidate Starts for JAWS_75:
(Start: 41 @50423 has 65 MA's), (Start: 52 @50450 has 64 MA's), (56, 50459), (67, 50519), (74, 50582), (83, 50624), (84, 50627), (101, 50765), (115, 50861), (116, 50864),

Gene: JF1_81 Start: 51381, Stop: 51974, Start Num: 39
Candidate Starts for JF1_81:
(8, 51201), (14, 51252), (20, 51306), (23, 51336), (Start: 39 @51381 has 2 MA's), (Start: 44 @51390 has 21 MA's), (Start: 47 @51399 has 12 MA's), (Start: 52 @51414 has 64 MA's), (67, 51483), (76, 51561), (83, 51588), (88, 51609), (92, 51651), (128, 51903), (132, 51942), (134, 51966),

Gene: JSwag_87 Start: 46806, Stop: 46339, Start Num: 36
Candidate Starts for JSwag_87:
(Start: 36 @46806 has 14 MA's), (Start: 52 @46794 has 64 MA's), (62, 46755), (64, 46740),

Gene: Jaan_82 Start: 48833, Stop: 48363, Start Num: 35
Candidate Starts for Jaan_82:
(Start: 35 @48833 has 155 MA's), (Start: 40 @48824 has 1 MA's), (Start: 52 @48809 has 64 MA's), (61, 48773), (92, 48569),

Gene: Jada_238 Start: 114440, Stop: 114895, Start Num: 52
Candidate Starts for Jada_238:

(29, 114386), (Start: 50 @114437 has 2 MA's), (Start: 52 @114440 has 64 MA's), (61, 114476), (62, 114479), (74, 114578), (75, 114590), (86, 114629), (92, 114680), (101, 114761), (117, 114881), (118, 114884),

Gene: Jarvi_76 Start: 50461, Stop: 50922, Start Num: 41

Candidate Starts for Jarvi_76:

(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: Jayhawk_79 Start: 50923, Stop: 51384, Start Num: 41

Candidate Starts for Jayhawk_79:

(Start: 41 @50923 has 65 MA's), (Start: 52 @50950 has 64 MA's), (56, 50959), (67, 51019), (74, 51082), (83, 51124), (84, 51127), (101, 51265), (115, 51361), (116, 51364),

Gene: Jaykayelowell_78 Start: 47892, Stop: 47422, Start Num: 35

Candidate Starts for Jaykayelowell_78:

(Start: 30 @47910 has 3 MA's), (Start: 35 @47892 has 155 MA's), (Start: 40 @47883 has 1 MA's), (Start: 44 @47880 has 21 MA's), (54, 47862), (62, 47823), (76, 47715), (83, 47688), (92, 47625), (97, 47571),

Gene: Jeckyll_76 Start: 50461, Stop: 50922, Start Num: 41

Candidate Starts for Jeckyll_76:

(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: Jeeves_85 Start: 46559, Stop: 46092, Start Num: 44

Candidate Starts for Jeeves_85:

(Start: 44 @46559 has 21 MA's), (Start: 52 @46547 has 64 MA's), (83, 46367), (88, 46346), (92, 46307), (102, 46217), (105, 46196),

Gene: JetBlade_82 Start: 47927, Stop: 47457, Start Num: 35

Candidate Starts for JetBlade_82:

(Start: 30 @47945 has 3 MA's), (Start: 35 @47927 has 155 MA's), (Start: 40 @47918 has 1 MA's), (Start: 44 @47915 has 21 MA's), (54, 47897), (62, 47858), (76, 47750), (83, 47723), (92, 47660), (97, 47606),

Gene: JimJam_223 Start: 107169, Stop: 107606, Start Num: 52

Candidate Starts for JimJam_223:

(33, 107121), (Start: 52 @107169 has 64 MA's), (62, 107208), (Start: 69 @107259 has 1 MA's), (70, 107262), (73, 107298),

Gene: Jollison_213 Start: 105379, Stop: 105816, Start Num: 52

Candidate Starts for Jollison_213:

(33, 105331), (Start: 52 @105379 has 64 MA's), (62, 105418), (Start: 69 @105469 has 1 MA's), (70, 105472), (73, 105508),

Gene: JoongJeon_80 Start: 47893, Stop: 47423, Start Num: 35

Candidate Starts for JoongJeon_80:

(Start: 30 @47911 has 3 MA's), (Start: 35 @47893 has 155 MA's), (Start: 40 @47884 has 1 MA's), (Start: 44 @47881 has 21 MA's), (54, 47863), (62, 47824), (83, 47689), (97, 47572),

Gene: Jordennis_82 Start: 46245, Stop: 45784, Start Num: 38

Candidate Starts for Jordennis_82:

(Start: 38 @46245 has 38 MA's), (Start: 52 @46218 has 64 MA's), (65, 46158), (76, 46065), (101, 45897),

Gene: Joy99_77 Start: 50590, Stop: 51051, Start Num: 41

Candidate Starts for Joy99_77:

(Start: 41 @50590 has 65 MA's), (Start: 52 @50617 has 64 MA's), (56, 50626), (67, 50686), (74, 50749), (83, 50791), (84, 50794), (92, 50854), (101, 50932), (115, 51028), (116, 51031),

Gene: Juliette_83 Start: 51509, Stop: 52081, Start Num: 47

Candidate Starts for Juliette_83:

(6, 51284), (8, 51311), (14, 51362), (20, 51416), (23, 51446), (Start: 39 @51491 has 2 MA's), (Start: 44 @51500 has 21 MA's), (Start: 47 @51509 has 12 MA's), (Start: 52 @51524 has 64 MA's), (67, 51593), (75, 51668), (76, 51671), (83, 51698), (92, 51761), (101, 51839), (126, 52004), (128, 52010), (132, 52049),

Gene: KFPoly_80 Start: 47893, Stop: 47423, Start Num: 35

Candidate Starts for KFPoly_80:

(Start: 30 @47911 has 3 MA's), (Start: 35 @47893 has 155 MA's), (Start: 40 @47884 has 1 MA's), (Start: 44 @47881 has 21 MA's), (54, 47863), (62, 47824), (83, 47689), (97, 47572),

Gene: Kamy_80 Start: 47902, Stop: 47432, Start Num: 35

Candidate Starts for Kamy_80:

(Start: 30 @47920 has 3 MA's), (Start: 35 @47902 has 155 MA's), (Start: 40 @47893 has 1 MA's), (Start: 44 @47890 has 21 MA's), (54, 47872), (62, 47833), (83, 47698), (97, 47581),

Gene: Karimac_217 Start: 105564, Stop: 106001, Start Num: 52

Candidate Starts for Karimac_217:

(37, 105534), (Start: 52 @105564 has 64 MA's), (62, 105603), (Start: 69 @105654 has 1 MA's), (73, 105693),

Gene: Karp_236 Start: 116720, Stop: 117178, Start Num: 52

Candidate Starts for Karp_236:

(Start: 50 @116717 has 2 MA's), (Start: 52 @116720 has 64 MA's), (62, 116759), (74, 116858), (77, 116876), (86, 116909), (90, 116936), (101, 117044), (117, 117164), (118, 117167),

Gene: Katalie136_77 Start: 47517, Stop: 47050, Start Num: 35

Candidate Starts for Katalie136_77:

(Start: 30 @47535 has 3 MA's), (Start: 35 @47517 has 155 MA's), (Start: 40 @47508 has 1 MA's), (Start: 44 @47505 has 21 MA's), (54, 47487), (62, 47448), (83, 47313), (92, 47250), (97, 47196),

Gene: KatherineG_87 Start: 47118, Stop: 46651, Start Num: 36

Candidate Starts for KatherineG_87:

(Start: 36 @47118 has 14 MA's), (Start: 52 @47106 has 64 MA's), (62, 47067), (64, 47052),

Gene: Kazan_85 Start: 46018, Stop: 45557, Start Num: 38

Candidate Starts for Kazan_85:

(Start: 38 @46018 has 38 MA's), (Start: 52 @45991 has 64 MA's), (65, 45931), (76, 45838), (101, 45670),

Gene: KekoraPapaka_78 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for KekoraPapaka_78:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's), (Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (83, 47695), (97, 47578),

Gene: Kenrey_246 Start: 116000, Stop: 116455, Start Num: 52

Candidate Starts for Kenrey_246:

(Start: 50 @115997 has 2 MA's), (Start: 52 @116000 has 64 MA's), (62, 116039), (64, 116054), (74, 116138), (75, 116150), (86, 116189), (117, 116441),

Gene: KentuckyRacer_222 Start: 107084, Stop: 107521, Start Num: 52

Candidate Starts for KentuckyRacer_222:

(33, 107036), (Start: 52 @107084 has 64 MA's), (62, 107123), (Start: 69 @107174 has 1 MA's), (70, 107177), (73, 107213),

Gene: Keshu_81 Start: 51550, Stop: 52113, Start Num: 18

Candidate Starts for Keshu_81:

(Start: 18 @51550 has 7 MA's), (25, 51607), (31, 51631), (Start: 52 @51682 has 64 MA's), (54, 51688), (61, 51718), (67, 51751), (71, 51784), (76, 51829), (90, 51892), (92, 51919), (107, 52051),

Gene: Kimona_81 Start: 46685, Stop: 46218, Start Num: 45

Candidate Starts for Kimona_81:

(12, 46847), (Start: 30 @46706 has 3 MA's), (Start: 45 @46685 has 1 MA's), (Start: 52 @46673 has 64 MA's), (56, 46664), (61, 46637), (67, 46604), (76, 46526), (115, 46256),

Gene: Kingmustik0402_81 Start: 47888, Stop: 47418, Start Num: 35

Candidate Starts for Kingmustik0402_81:

(Start: 30 @47906 has 3 MA's), (Start: 35 @47888 has 155 MA's), (Start: 40 @47879 has 1 MA's), (Start: 44 @47876 has 21 MA's), (54, 47858), (62, 47819), (83, 47684), (97, 47567),

Gene: Kipper29_84 Start: 46022, Stop: 45570, Start Num: 38

Candidate Starts for Kipper29_84:

(Start: 38 @46022 has 38 MA's), (Start: 52 @45995 has 64 MA's), (67, 45929), (76, 45851), (101, 45683),

Gene: KittenMittens_76 Start: 46673, Stop: 46209, Start Num: 35

Candidate Starts for KittenMittens_76:

(Start: 35 @46673 has 155 MA's), (Start: 40 @46664 has 1 MA's), (Start: 52 @46649 has 64 MA's), (97, 46358),

Gene: Koan_78 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for Koan_78:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's), (Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (83, 47695), (97, 47578),

Gene: Koko_87 Start: 46875, Stop: 46414, Start Num: 38

Candidate Starts for Koko_87:

(Start: 38 @46875 has 38 MA's), (Start: 52 @46848 has 64 MA's), (65, 46788), (76, 46695), (96, 46581),

Gene: Koreni_80 Start: 47580, Stop: 47110, Start Num: 35

Candidate Starts for Koreni_80:

(Start: 30 @47598 has 3 MA's), (Start: 35 @47580 has 155 MA's), (Start: 40 @47571 has 1 MA's), (Start: 44 @47568 has 21 MA's), (54, 47550), (62, 47511), (83, 47376), (97, 47259),

Gene: Kratak_80 Start: 47933, Stop: 47463, Start Num: 35

Candidate Starts for Kratak_80:

(Start: 30 @47951 has 3 MA's), (Start: 35 @47933 has 155 MA's), (Start: 40 @47924 has 1 MA's),
(Start: 44 @47921 has 21 MA's), (54, 47903), (62, 47864), (83, 47729), (97, 47612),

Gene: Kraw_81 Start: 51233, Stop: 51790, Start Num: 52

Candidate Starts for Kraw_81:

(8, 51011), (11, 51026), (14, 51062), (16, 51083), (20, 51110), (23, 51140), (Start: 39 @51200 has 2
MA's), (Start: 44 @51209 has 21 MA's), (Start: 47 @51218 has 12 MA's), (Start: 52 @51233 has 64
MA's), (67, 51302), (75, 51377), (76, 51380), (83, 51407), (92, 51470), (101, 51548), (126, 51713),
(128, 51719), (132, 51758),

Gene: Kremtemulon_78 Start: 47779, Stop: 47309, Start Num: 35

Candidate Starts for Kremtemulon_78:

(Start: 30 @47797 has 3 MA's), (Start: 35 @47779 has 155 MA's), (Start: 40 @47770 has 1 MA's),
(Start: 44 @47767 has 21 MA's), (54, 47749), (62, 47710), (83, 47575), (97, 47458),

Gene: Kristoff_78 Start: 47941, Stop: 47477, Start Num: 35

Candidate Starts for Kristoff_78:

(Start: 35 @47941 has 155 MA's), (Start: 40 @47932 has 1 MA's), (Start: 52 @47917 has 64 MA's),
(92, 47680),

Gene: Kyee_81 Start: 47894, Stop: 47424, Start Num: 35

Candidate Starts for Kyee_81:

(Start: 30 @47912 has 3 MA's), (Start: 35 @47894 has 155 MA's), (Start: 40 @47885 has 1 MA's),
(Start: 44 @47882 has 21 MA's), (54, 47864), (62, 47825), (83, 47690), (97, 47573),

Gene: LHTSCC_83 Start: 48339, Stop: 47869, Start Num: 35

Candidate Starts for LHTSCC_83:

(Start: 30 @48357 has 3 MA's), (Start: 35 @48339 has 155 MA's), (Start: 40 @48330 has 1 MA's),
(Start: 44 @48327 has 21 MA's), (54, 48309), (62, 48270), (83, 48135), (97, 48018),

Gene: Landor_82 Start: 48758, Stop: 48288, Start Num: 35

Candidate Starts for Landor_82:

(Start: 35 @48758 has 155 MA's), (Start: 40 @48749 has 1 MA's), (Start: 52 @48734 has 64 MA's),
(92, 48494),

Gene: LappelDuVide_81 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for LappelDuVide_81:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's),
(Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (76, 47722), (83, 47695), (92, 47632), (97,
47578),

Gene: LastHope_83 Start: 51070, Stop: 51531, Start Num: 41

Candidate Starts for LastHope_83:

(Start: 41 @51070 has 65 MA's), (46, 51076), (Start: 52 @51097 has 64 MA's), (56, 51106), (61,
51133), (67, 51166), (75, 51241), (83, 51271), (84, 51274), (92, 51334), (101, 51412), (116, 51511),

Gene: LastResort_85 Start: 47049, Stop: 46582, Start Num: 36

Candidate Starts for LastResort_85:

(Start: 36 @47049 has 14 MA's), (Start: 52 @47037 has 64 MA's), (62, 46998), (64, 46983),

Gene: Lea83_79 Start: 51451, Stop: 52014, Start Num: 18

Candidate Starts for Lea83_79:

(Start: 18 @51451 has 7 MA's), (25, 51508), (31, 51532), (Start: 52 @51583 has 64 MA's), (54, 51589), (61, 51619), (67, 51652), (71, 51685), (76, 51730), (90, 51793), (92, 51820), (107, 51952),

Gene: Lebo14_80 Start: 51635, Stop: 52210, Start Num: 47

Candidate Starts for Lebo14_80:

(8, 51437), (14, 51488), (20, 51542), (23, 51572), (Start: 39 @51617 has 2 MA's), (Start: 44 @51626 has 21 MA's), (Start: 47 @51635 has 12 MA's), (Start: 52 @51650 has 64 MA's), (67, 51719), (76, 51797), (83, 51824), (92, 51887), (101, 51965), (128, 52139), (132, 52178),

Gene: Lemur_81 Start: 47896, Stop: 47426, Start Num: 35

Candidate Starts for Lemur_81:

(Start: 30 @47914 has 3 MA's), (Start: 35 @47896 has 155 MA's), (Start: 40 @47887 has 1 MA's), (Start: 44 @47884 has 21 MA's), (54, 47866), (62, 47827), (83, 47692), (97, 47575),

Gene: Lilbunny_85 Start: 46117, Stop: 45656, Start Num: 38

Candidate Starts for Lilbunny_85:

(Start: 38 @46117 has 38 MA's), (Start: 52 @46090 has 64 MA's), (65, 46030), (76, 45937), (96, 45823),

Gene: LindNT_75 Start: 50926, Stop: 51387, Start Num: 41

Candidate Starts for LindNT_75:

(Start: 41 @50926 has 65 MA's), (Start: 52 @50953 has 64 MA's), (56, 50962), (67, 51022), (74, 51085), (84, 51130), (101, 51268), (115, 51364), (116, 51367),

Gene: LittleB_81 Start: 47900, Stop: 47430, Start Num: 35

Candidate Starts for LittleB_81:

(Start: 30 @47918 has 3 MA's), (Start: 35 @47900 has 155 MA's), (Start: 40 @47891 has 1 MA's), (Start: 44 @47888 has 21 MA's), (54, 47870), (62, 47831), (83, 47696), (97, 47579),

Gene: LittleGuy_81 Start: 47787, Stop: 47314, Start Num: 35

Candidate Starts for LittleGuy_81:

(Start: 30 @47805 has 3 MA's), (Start: 35 @47787 has 155 MA's), (55, 47754), (62, 47715), (64, 47700), (71, 47652), (83, 47580), (97, 47463),

Gene: Llorens_76 Start: 50461, Stop: 50922, Start Num: 41

Candidate Starts for Llorens_76:

(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: LochMonster_82 Start: 48136, Stop: 47666, Start Num: 35

Candidate Starts for LochMonster_82:

(Start: 30 @48154 has 3 MA's), (Start: 35 @48136 has 155 MA's), (Start: 40 @48127 has 1 MA's), (Start: 44 @48124 has 21 MA's), (54, 48106), (62, 48067), (83, 47932), (97, 47815),

Gene: Lorenzo_81 Start: 47897, Stop: 47427, Start Num: 35

Candidate Starts for Lorenzo_81:

(Start: 30 @47915 has 3 MA's), (Start: 35 @47897 has 155 MA's), (Start: 40 @47888 has 1 MA's), (Start: 44 @47885 has 21 MA's), (54, 47867), (62, 47828), (83, 47693), (97, 47576),

Gene: Luchador_83 Start: 47820, Stop: 47353, Start Num: 44

Candidate Starts for Luchador_83:

(Start: 44 @47820 has 21 MA's), (Start: 52 @47808 has 64 MA's), (83, 47628), (88, 47607), (102, 47478), (105, 47457),

Gene: LukeCage_221 Start: 107799, Stop: 108236, Start Num: 52

Candidate Starts for LukeCage_221:

(Start: 52 @107799 has 64 MA's), (62, 107838), (Start: 69 @107889 has 1 MA's), (70, 107892), (73, 107928),

Gene: Lunahalos_76 Start: 50461, Stop: 50922, Start Num: 41

Candidate Starts for Lunahalos_76:

(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: Lunsford_81 Start: 47892, Stop: 47422, Start Num: 35

Candidate Starts for Lunsford_81:

(Start: 30 @47910 has 3 MA's), (Start: 35 @47892 has 155 MA's), (Start: 40 @47883 has 1 MA's), (Start: 44 @47880 has 21 MA's), (54, 47862), (62, 47823), (67, 47793), (76, 47715), (83, 47688), (92, 47625), (97, 47571),

Gene: Malthus_82 Start: 51209, Stop: 51790, Start Num: 44

Candidate Starts for Malthus_82:

(8, 51011), (11, 51026), (14, 51062), (16, 51083), (20, 51110), (23, 51140), (Start: 39 @51200 has 2 MA's), (Start: 44 @51209 has 21 MA's), (Start: 47 @51218 has 12 MA's), (Start: 52 @51233 has 64 MA's), (67, 51302), (75, 51377), (76, 51380), (83, 51407), (92, 51470), (101, 51548), (126, 51713), (128, 51719), (132, 51758),

Gene: Marcoliusprime_81 Start: 53325, Stop: 53894, Start Num: 48

Candidate Starts for Marcoliusprime_81:

(Start: 48 @53325 has 12 MA's), (Start: 52 @53334 has 64 MA's), (60, 53364), (71, 53436), (76, 53481), (83, 53508), (84, 53511), (92, 53571), (129, 53835), (131, 53850),

Gene: Maupel_243 Start: 114275, Stop: 114730, Start Num: 52

Candidate Starts for Maupel_243:

(Start: 50 @114272 has 2 MA's), (Start: 52 @114275 has 64 MA's), (62, 114314), (74, 114413), (75, 114425), (86, 114464), (92, 114515), (101, 114596), (117, 114716), (118, 114719),

Gene: Maverick_80 Start: 47896, Stop: 47426, Start Num: 35

Candidate Starts for Maverick_80:

(Start: 30 @47914 has 3 MA's), (Start: 35 @47896 has 155 MA's), (Start: 40 @47887 has 1 MA's), (Start: 44 @47884 has 21 MA's), (54, 47866), (62, 47827), (83, 47692), (97, 47575),

Gene: Maxo_83 Start: 47902, Stop: 47432, Start Num: 35

Candidate Starts for Maxo_83:

(Start: 30 @47920 has 3 MA's), (Start: 35 @47902 has 155 MA's), (Start: 40 @47893 has 1 MA's), (Start: 44 @47890 has 21 MA's), (54, 47872), (62, 47833), (83, 47698), (97, 47581),

Gene: Mazhar510_81 Start: 47897, Stop: 47427, Start Num: 35

Candidate Starts for Mazhar510_81:

(Start: 30 @47915 has 3 MA's), (Start: 35 @47897 has 155 MA's), (Start: 40 @47888 has 1 MA's), (Start: 44 @47885 has 21 MA's), (54, 47867), (62, 47828), (83, 47693), (97, 47576),

Gene: McFly_84 Start: 46358, Stop: 45906, Start Num: 38

Candidate Starts for McFly_84:

(Start: 38 @46358 has 38 MA's), (Start: 52 @46331 has 64 MA's), (67, 46265), (76, 46187), (101, 46019),

Gene: Medusa_80 Start: 47912, Stop: 47442, Start Num: 35

Candidate Starts for Medusa_80:

(Start: 30 @47930 has 3 MA's), (Start: 35 @47912 has 155 MA's), (Start: 40 @47903 has 1 MA's),
(Start: 44 @47900 has 21 MA's), (54, 47882), (62, 47843), (83, 47708), (97, 47591),

Gene: MeeZee_80 Start: 47893, Stop: 47423, Start Num: 35

Candidate Starts for MeeZee_80:

(4, 48124), (Start: 30 @47911 has 3 MA's), (Start: 35 @47893 has 155 MA's), (Start: 40 @47884 has 1 MA's),
(Start: 44 @47881 has 21 MA's), (54, 47863), (62, 47824), (83, 47689), (97, 47572),

Gene: MeganTheeKilla_243 Start: 114982, Stop: 115437, Start Num: 52

Candidate Starts for MeganTheeKilla_243:

(Start: 50 @114979 has 2 MA's), (Start: 52 @114982 has 64 MA's), (62, 115021), (74, 115120), (75, 115132),
(86, 115171), (92, 115222), (101, 115303), (117, 115423), (118, 115426),

Gene: Melvin_83 Start: 47912, Stop: 47424, Start Num: 30

Candidate Starts for Melvin_83:

(Start: 30 @47912 has 3 MA's), (Start: 35 @47894 has 155 MA's), (Start: 40 @47885 has 1 MA's),
(Start: 44 @47882 has 21 MA's), (54, 47864), (62, 47825), (83, 47690), (97, 47573),

Gene: Millski_80 Start: 47900, Stop: 47430, Start Num: 35

Candidate Starts for Millski_80:

(4, 48131), (Start: 30 @47918 has 3 MA's), (Start: 35 @47900 has 155 MA's), (Start: 40 @47891 has 1 MA's),
(Start: 44 @47888 has 21 MA's), (54, 47870), (62, 47831), (83, 47696), (97, 47579),

Gene: Milly_82 Start: 53316, Stop: 53885, Start Num: 48

Candidate Starts for Milly_82:

(Start: 48 @53316 has 12 MA's), (Start: 52 @53325 has 64 MA's), (60, 53355), (71, 53427), (76, 53472),
(83, 53499), (84, 53502), (92, 53562), (129, 53826), (131, 53841),

Gene: MindFlayer_209 Start: 104764, Stop: 105201, Start Num: 52

Candidate Starts for MindFlayer_209:

(33, 104716), (Start: 52 @104764 has 64 MA's), (62, 104803), (Start: 69 @104854 has 1 MA's), (70, 104857),
(73, 104893),

Gene: MinecraftSteve_88 Start: 47100, Stop: 46633, Start Num: 36

Candidate Starts for MinecraftSteve_88:

(Start: 36 @47100 has 14 MA's), (Start: 52 @47088 has 64 MA's), (62, 47049), (64, 47034),

Gene: Miramae_81 Start: 47833, Stop: 47345, Start Num: 30

Candidate Starts for Miramae_81:

(Start: 30 @47833 has 3 MA's), (Start: 35 @47815 has 155 MA's), (Start: 52 @47788 has 64 MA's),
(54, 47782), (64, 47728), (67, 47713), (83, 47608), (97, 47491),

Gene: MissDaisy_78 Start: 49211, Stop: 49774, Start Num: 47

Candidate Starts for MissDaisy_78:

(Start: 44 @49202 has 21 MA's), (Start: 47 @49211 has 12 MA's), (49, 49220), (Start: 52 @49226 has 64 MA's),
(64, 49280), (67, 49295), (76, 49373), (83, 49400), (92, 49463), (101, 49541), (132, 49742),

Gene: Mitti_81 Start: 51367, Stop: 51951, Start Num: 44

Candidate Starts for Mitti_81:

(8, 51178), (14, 51229), (20, 51283), (23, 51313), (Start: 39 @51358 has 2 MA's), (Start: 44 @51367 has 21 MA's), (Start: 47 @51376 has 12 MA's), (Start: 52 @51391 has 64 MA's), (67, 51460), (76, 51538), (83, 51565), (92, 51628), (101, 51706), (128, 51880), (132, 51919),

Gene: Moab_243 Start: 117249, Stop: 117701, Start Num: 52

Candidate Starts for Moab_243:

(Start: 50 @117246 has 2 MA's), (Start: 52 @117249 has 64 MA's), (62, 117288), (74, 117387), (86, 117438), (100, 117555), (101, 117570), (117, 117687),

Gene: Morpher26_77 Start: 47538, Stop: 47071, Start Num: 35

Candidate Starts for Morpher26_77:

(Start: 30 @47556 has 3 MA's), (Start: 35 @47538 has 155 MA's), (Start: 40 @47529 has 1 MA's), (Start: 44 @47526 has 21 MA's), (54, 47508), (62, 47469), (83, 47334), (92, 47271), (97, 47217),

Gene: Morrow_83 Start: 47939, Stop: 47469, Start Num: 35

Candidate Starts for Morrow_83:

(Start: 30 @47957 has 3 MA's), (Start: 35 @47939 has 155 MA's), (Start: 40 @47930 has 1 MA's), (Start: 44 @47927 has 21 MA's), (54, 47909), (62, 47870), (76, 47762), (83, 47735), (92, 47672), (97, 47618),

Gene: Mufasa_81 Start: 52782, Stop: 53354, Start Num: 48

Candidate Starts for Mufasa_81:

(Start: 48 @52782 has 12 MA's), (Start: 52 @52794 has 64 MA's), (76, 52941), (83, 52968), (84, 52971), (92, 53031), (129, 53295), (131, 53310),

Gene: Mugiwara_224 Start: 108255, Stop: 108692, Start Num: 52

Candidate Starts for Mugiwara_224:

(37, 108225), (Start: 52 @108255 has 64 MA's), (62, 108294), (Start: 69 @108345 has 1 MA's), (70, 108348), (73, 108384),

Gene: Mundrea_79 Start: 47777, Stop: 47307, Start Num: 35

Candidate Starts for Mundrea_79:

(Start: 30 @47795 has 3 MA's), (Start: 35 @47777 has 155 MA's), (Start: 52 @47750 has 64 MA's), (54, 47744), (64, 47690), (67, 47675), (83, 47570), (97, 47453),

Gene: Muntaha_214 Start: 105868, Stop: 106320, Start Num: 52

Candidate Starts for Muntaha_214:

(Start: 52 @105868 has 64 MA's), (59, 105892), (62, 105907), (63, 105910), (74, 106000), (77, 106018), (86, 106051), (109, 106252), (118, 106309),

Gene: Murucutumbu_77 Start: 51702, Stop: 52163, Start Num: 43

Candidate Starts for Murucutumbu_77:

(26, 51651), (29, 51669), (Start: 43 @51702 has 2 MA's), (Start: 52 @51729 has 64 MA's), (56, 51738), (67, 51798), (74, 51861), (75, 51873), (83, 51903), (84, 51906), (101, 52044), (115, 52140), (116, 52143),

Gene: Mynx_78 Start: 51192, Stop: 51653, Start Num: 41

Candidate Starts for Mynx_78:

(Start: 41 @51192 has 65 MA's), (Start: 52 @51219 has 64 MA's), (56, 51228), (67, 51288), (74, 51351), (83, 51393), (84, 51396), (101, 51534), (115, 51630), (116, 51633),

Gene: Myrna_230 Start: 134129, Stop: 134599, Start Num: 47

Candidate Starts for Myrna_230:

(Start: 47 @134129 has 12 MA's), (Start: 52 @134144 has 64 MA's), (76, 134291), (83, 134318), (92, 134378),

Gene: Nebs_82 Start: 47939, Stop: 47469, Start Num: 35

Candidate Starts for Nebs_82:

(Start: 30 @47957 has 3 MA's), (Start: 35 @47939 has 155 MA's), (Start: 40 @47930 has 1 MA's), (Start: 44 @47927 has 21 MA's), (54, 47909), (62, 47870), (83, 47735), (97, 47618),

Gene: Nebulosus_84 Start: 46606, Stop: 46139, Start Num: 36

Candidate Starts for Nebulosus_84:

(Start: 36 @46606 has 14 MA's), (Start: 52 @46594 has 64 MA's), (62, 46555), (64, 46540),

Gene: Neeharika16_83 Start: 46108, Stop: 45656, Start Num: 38

Candidate Starts for Neeharika16_83:

(Start: 38 @46108 has 38 MA's), (Start: 52 @46081 has 64 MA's), (67, 46015), (76, 45937), (101, 45769),

Gene: Nemo27_80 Start: 47895, Stop: 47425, Start Num: 35

Candidate Starts for Nemo27_80:

(Start: 30 @47913 has 3 MA's), (Start: 35 @47895 has 155 MA's), (Start: 40 @47886 has 1 MA's), (Start: 44 @47883 has 21 MA's), (54, 47865), (62, 47826), (83, 47691), (97, 47574),

Gene: Newrala_83 Start: 46453, Stop: 45992, Start Num: 38

Candidate Starts for Newrala_83:

(Start: 38 @46453 has 38 MA's), (Start: 52 @46426 has 64 MA's), (65, 46366), (76, 46273), (101, 46105),

Gene: Noelle_78 Start: 47735, Stop: 47277, Start Num: 40

Candidate Starts for Noelle_78:

(3, 48020), (5, 47960), (Start: 30 @47762 has 3 MA's), (Start: 35 @47744 has 155 MA's), (Start: 40 @47735 has 1 MA's), (Start: 44 @47732 has 21 MA's), (54, 47714), (62, 47675), (83, 47540), (97, 47423),

Gene: NorthStar_78 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for NorthStar_78:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's), (Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (83, 47695), (97, 47578),

Gene: NotAPhaseMom_80 Start: 47900, Stop: 47430, Start Num: 35

Candidate Starts for NotAPhaseMom_80:

(Start: 30 @47918 has 3 MA's), (Start: 35 @47900 has 155 MA's), (Start: 40 @47891 has 1 MA's), (Start: 44 @47888 has 21 MA's), (54, 47870), (62, 47831), (83, 47696), (97, 47579),

Gene: Nyxis_80 Start: 47781, Stop: 47308, Start Num: 35

Candidate Starts for Nyxis_80:

(Start: 30 @47799 has 3 MA's), (Start: 35 @47781 has 155 MA's), (55, 47748), (62, 47709), (64, 47694), (71, 47646), (83, 47574), (97, 47457),

Gene: OKCentral2016_79 Start: 46747, Stop: 46280, Start Num: 34

Candidate Starts for OKCentral2016_79:

(Start: 30 @46762 has 3 MA's), (Start: 34 @46747 has 8 MA's), (42, 46732), (Start: 52 @46720 has 64 MA's), (67, 46651), (76, 46573), (83, 46546), (97, 46429),

Gene: OKaNui_80 Start: 47950, Stop: 47480, Start Num: 35

Candidate Starts for OKaNui_80:

(Start: 30 @47968 has 3 MA's), (Start: 35 @47950 has 155 MA's), (Start: 40 @47941 has 1 MA's), (Start: 44 @47938 has 21 MA's), (54, 47920), (62, 47881), (83, 47746), (97, 47629),

Gene: Obama12_82 Start: 48323, Stop: 47853, Start Num: 35

Candidate Starts for Obama12_82:

(Start: 30 @48341 has 3 MA's), (Start: 35 @48323 has 155 MA's), (Start: 40 @48314 has 1 MA's), (Start: 44 @48311 has 21 MA's), (54, 48293), (62, 48254), (83, 48119), (97, 48002),

Gene: Ohfah_82 Start: 47939, Stop: 47469, Start Num: 35

Candidate Starts for Ohfah_82:

(Start: 30 @47957 has 3 MA's), (Start: 35 @47939 has 155 MA's), (Start: 40 @47930 has 1 MA's), (Start: 44 @47927 has 21 MA's), (54, 47909), (62, 47870), (83, 47735), (97, 47618),

Gene: OmniCritical_81 Start: 51378, Stop: 51953, Start Num: 47

Candidate Starts for OmniCritical_81:

(8, 51180), (14, 51231), (20, 51285), (23, 51315), (Start: 39 @51360 has 2 MA's), (Start: 44 @51369 has 21 MA's), (Start: 47 @51378 has 12 MA's), (Start: 52 @51393 has 64 MA's), (67, 51462), (76, 51540), (83, 51567), (88, 51588), (92, 51630), (101, 51708), (128, 51882), (132, 51921),

Gene: Padfoot_76 Start: 50658, Stop: 51119, Start Num: 41

Candidate Starts for Padfoot_76:

(Start: 41 @50658 has 65 MA's), (Start: 52 @50685 has 64 MA's), (56, 50694), (67, 50754), (74, 50817), (83, 50859), (84, 50862), (92, 50922), (101, 51000), (115, 51096), (116, 51099),

Gene: Padpat_80 Start: 50897, Stop: 51358, Start Num: 41

Candidate Starts for Padpat_80:

(Start: 41 @50897 has 65 MA's), (Start: 52 @50924 has 64 MA's), (56, 50933), (67, 50993), (74, 51056), (84, 51101), (101, 51239), (115, 51335), (116, 51338),

Gene: Palestino_80 Start: 47896, Stop: 47426, Start Num: 35

Candidate Starts for Palestino_80:

(Start: 30 @47914 has 3 MA's), (Start: 35 @47896 has 155 MA's), (Start: 40 @47887 has 1 MA's), (Start: 44 @47884 has 21 MA's), (54, 47866), (62, 47827), (83, 47692), (97, 47575),

Gene: Patelgo_242 Start: 117496, Stop: 117948, Start Num: 52

Candidate Starts for Patelgo_242:

(Start: 50 @117493 has 2 MA's), (Start: 52 @117496 has 64 MA's), (62, 117535), (74, 117634), (86, 117685), (98, 117796), (100, 117802), (101, 117817), (117, 117934),

Gene: Patt_77 Start: 49361, Stop: 49933, Start Num: 44

Candidate Starts for Patt_77:

(8, 49163), (11, 49178), (14, 49214), (16, 49235), (20, 49262), (23, 49292), (Start: 44 @49361 has 21 MA's), (Start: 47 @49370 has 12 MA's), (Start: 52 @49385 has 64 MA's), (64, 49439), (67, 49454), (76, 49532), (83, 49559), (92, 49622), (101, 49700), (132, 49901),

Gene: PeaceMeal1_77 Start: 46674, Stop: 46210, Start Num: 35

Candidate Starts for PeaceMeal1_77:

(Start: 35 @46674 has 155 MA's), (Start: 40 @46665 has 1 MA's), (Start: 52 @46650 has 64 MA's), (97, 46359),

Gene: Peaches_79 Start: 47901, Stop: 47428, Start Num: 35

Candidate Starts for Peaches_79:

(Start: 30 @47919 has 3 MA's), (Start: 35 @47901 has 155 MA's), (55, 47868), (62, 47829), (64, 47814), (71, 47766), (83, 47694), (97, 47577),

Gene: Peel_76 Start: 50463, Stop: 50924, Start Num: 41

Candidate Starts for Peel_76:

(Start: 41 @50463 has 65 MA's), (Start: 52 @50490 has 64 MA's), (56, 50499), (67, 50559), (74, 50622), (83, 50664), (84, 50667), (92, 50727), (101, 50805), (115, 50901), (116, 50904),

Gene: Perplexer_77 Start: 47518, Stop: 47051, Start Num: 35

Candidate Starts for Perplexer_77:

(Start: 30 @47536 has 3 MA's), (Start: 35 @47518 has 155 MA's), (Start: 40 @47509 has 1 MA's), (Start: 44 @47506 has 21 MA's), (54, 47488), (62, 47449), (83, 47314), (92, 47251), (97, 47197),

Gene: PeterPeter_81 Start: 47893, Stop: 47423, Start Num: 35

Candidate Starts for PeterPeter_81:

(Start: 30 @47911 has 3 MA's), (Start: 35 @47893 has 155 MA's), (Start: 40 @47884 has 1 MA's), (Start: 44 @47881 has 21 MA's), (54, 47863), (62, 47824), (83, 47689), (97, 47572),

Gene: PetiteSangsue_77 Start: 47521, Stop: 47054, Start Num: 35

Candidate Starts for PetiteSangsue_77:

(Start: 30 @47539 has 3 MA's), (Start: 35 @47521 has 155 MA's), (Start: 40 @47512 has 1 MA's), (Start: 44 @47509 has 21 MA's), (54, 47491), (62, 47452), (83, 47317), (92, 47254), (97, 47200),

Gene: Phabba_240 Start: 133855, Stop: 134328, Start Num: 47

Candidate Starts for Phabba_240:

(Start: 47 @133855 has 12 MA's), (Start: 52 @133870 has 64 MA's), (76, 134017), (92, 134104), (101, 134206), (116, 134308),

Gene: Phacado_81 Start: 47895, Stop: 47425, Start Num: 35

Candidate Starts for Phacado_81:

(Start: 30 @47913 has 3 MA's), (Start: 35 @47895 has 155 MA's), (Start: 40 @47886 has 1 MA's), (Start: 44 @47883 has 21 MA's), (54, 47865), (62, 47826), (83, 47691), (97, 47574),

Gene: Phaded_78 Start: 48717, Stop: 48247, Start Num: 35

Candidate Starts for Phaded_78:

(Start: 35 @48717 has 155 MA's), (Start: 40 @48708 has 1 MA's), (Start: 52 @48693 has 64 MA's), (61, 48657), (92, 48453),

Gene: Pharb_77 Start: 50633, Stop: 51190, Start Num: 47

Candidate Starts for Pharb_77:

(Start: 47 @50633 has 12 MA's), (Start: 52 @50648 has 64 MA's), (67, 50717), (68, 50720), (76, 50795), (92, 50885), (107, 51017), (125, 51113), (127, 51125), (130, 51140), (134, 51182),

Gene: Phelipe_81 Start: 47860, Stop: 47345, Start Num: 35

Candidate Starts for Phelipe_81:

(Start: 30 @47878 has 3 MA's), (Start: 35 @47860 has 155 MA's), (Start: 40 @47851 has 1 MA's), (Start: 44 @47848 has 21 MA's), (54, 47830), (62, 47791), (83, 47656), (97, 47539),

Gene: PhelpsODU_81 Start: 51079, Stop: 51651, Start Num: 44

Candidate Starts for PhelpsODU_81:

(Start: 44 @51079 has 21 MA's), (Start: 52 @51100 has 64 MA's), (67, 51169), (71, 51202), (73, 51223), (76, 51247), (84, 51277), (92, 51337), (101, 51415), (107, 51469), (111, 51493), (133, 51631),

Gene: Phighter1804_81 Start: 47960, Stop: 47490, Start Num: 35
Candidate Starts for Phighter1804_81:
(Start: 30 @47978 has 3 MA's), (Start: 35 @47960 has 155 MA's), (Start: 40 @47951 has 1 MA's),
(Start: 44 @47948 has 21 MA's), (54, 47930), (62, 47891), (83, 47756), (97, 47639),

Gene: Phontbonne_81 Start: 47797, Stop: 47324, Start Num: 35
Candidate Starts for Phontbonne_81:
(Start: 30 @47815 has 3 MA's), (Start: 35 @47797 has 155 MA's), (55, 47764), (62, 47725), (64,
47710), (71, 47662), (83, 47590), (97, 47473),

Gene: Phrank_82 Start: 50939, Stop: 51511, Start Num: 44
Candidate Starts for Phrank_82:
(Start: 44 @50939 has 21 MA's), (Start: 52 @50960 has 64 MA's), (67, 51029), (71, 51062), (73,
51083), (76, 51107), (84, 51137), (92, 51197), (101, 51275), (107, 51329), (111, 51353), (121, 51404),
(133, 51491),

Gene: Phredrick_245 Start: 114858, Stop: 115313, Start Num: 52
Candidate Starts for Phredrick_245:
(Start: 52 @114858 has 64 MA's), (62, 114897), (64, 114912), (74, 114996), (75, 115008), (86,
115047), (117, 115299), (118, 115302),

Gene: Piatt_75 Start: 50658, Stop: 51119, Start Num: 41
Candidate Starts for Piatt_75:
(Start: 41 @50658 has 65 MA's), (Start: 52 @50685 has 64 MA's), (56, 50694), (67, 50754), (74,
50817), (83, 50859), (84, 50862), (92, 50922), (101, 51000), (115, 51096), (116, 51099),

Gene: Pipcraft_77 Start: 47900, Stop: 47430, Start Num: 35
Candidate Starts for Pipcraft_77:
(Start: 30 @47918 has 3 MA's), (Start: 35 @47900 has 155 MA's), (Start: 40 @47891 has 1 MA's),
(Start: 44 @47888 has 21 MA's), (54, 47870), (62, 47831), (83, 47696), (97, 47579),

Gene: Pixie_78 Start: 50938, Stop: 51501, Start Num: 18
Candidate Starts for Pixie_78:
(Start: 18 @50938 has 7 MA's), (25, 50995), (31, 51019), (Start: 52 @51070 has 64 MA's), (54, 51076),
(61, 51106), (67, 51139), (71, 51172), (76, 51217), (90, 51280), (92, 51307), (107, 51439),

Gene: Pmask_83 Start: 46654, Stop: 46193, Start Num: 38
Candidate Starts for Pmask_83:
(Start: 38 @46654 has 38 MA's), (Start: 52 @46627 has 64 MA's), (65, 46567), (76, 46474), (101,
46306),

Gene: Pokerus_77 Start: 50906, Stop: 51367, Start Num: 41
Candidate Starts for Pokerus_77:
(Start: 41 @50906 has 65 MA's), (Start: 52 @50933 has 64 MA's), (56, 50942), (67, 51002), (74,
51065), (83, 51107), (84, 51110), (101, 51248), (115, 51344), (116, 51347),

Gene: Polymorphads_82 Start: 47920, Stop: 47450, Start Num: 35
Candidate Starts for Polymorphads_82:
(Start: 30 @47938 has 3 MA's), (Start: 35 @47920 has 155 MA's), (Start: 40 @47911 has 1 MA's),
(Start: 44 @47908 has 21 MA's), (54, 47890), (62, 47851), (76, 47743), (83, 47716), (92, 47653), (97,
47599),

Gene: Poompha_77 Start: 46672, Stop: 46208, Start Num: 35
Candidate Starts for Poompha_77:
(Start: 35 @46672 has 155 MA's), (Start: 40 @46663 has 1 MA's), (Start: 52 @46648 has 64 MA's),
(97, 46357),

Gene: Prithvi_79 Start: 50926, Stop: 51387, Start Num: 41
Candidate Starts for Prithvi_79:
(Start: 41 @50926 has 65 MA's), (Start: 52 @50953 has 64 MA's), (56, 50962), (67, 51022), (74,
51085), (84, 51130), (101, 51268), (115, 51364), (116, 51367),

Gene: Pukovnik_79 Start: 48185, Stop: 47718, Start Num: 35
Candidate Starts for Pukovnik_79:
(Start: 35 @48185 has 155 MA's), (Start: 40 @48176 has 1 MA's), (Start: 44 @48173 has 21 MA's),
(Start: 52 @48161 has 64 MA's), (54, 48155), (67, 48086), (76, 48008), (97, 47867),

Gene: Pumbaa_81 Start: 47844, Stop: 47374, Start Num: 35
Candidate Starts for Pumbaa_81:
(Start: 30 @47862 has 3 MA's), (Start: 35 @47844 has 155 MA's), (Start: 40 @47835 has 1 MA's),
(Start: 44 @47832 has 21 MA's), (54, 47814), (62, 47775), (76, 47667), (83, 47640), (92, 47577), (97,
47523),

Gene: PumpkinSpice_219 Start: 105985, Stop: 106422, Start Num: 52
Candidate Starts for PumpkinSpice_219:
(33, 105937), (Start: 52 @105985 has 64 MA's), (62, 106024), (Start: 69 @106075 has 1 MA's), (70,
106078), (73, 106114),

Gene: Qhanda_83 Start: 51228, Stop: 51812, Start Num: 44
Candidate Starts for Qhanda_83:
(8, 51039), (14, 51090), (20, 51144), (23, 51174), (Start: 39 @51219 has 2 MA's), (Start: 44 @51228
has 21 MA's), (Start: 47 @51237 has 12 MA's), (Start: 52 @51252 has 64 MA's), (67, 51321), (76,
51399), (77, 51402), (83, 51426), (88, 51447), (92, 51489), (101, 51567), (128, 51741), (132, 51780),

Gene: Quaran19_216 Start: 105426, Stop: 105863, Start Num: 52
Candidate Starts for Quaran19_216:
(33, 105378), (Start: 52 @105426 has 64 MA's), (62, 105465), (Start: 69 @105516 has 1 MA's), (70,
105519), (73, 105555),

Gene: Ramen_77 Start: 50227, Stop: 50688, Start Num: 41
Candidate Starts for Ramen_77:
(Start: 41 @50227 has 65 MA's), (Start: 52 @50254 has 64 MA's), (56, 50263), (67, 50323), (74,
50386), (83, 50428), (84, 50431), (101, 50569), (115, 50665), (116, 50668),

Gene: Rapunzel97_79 Start: 50878, Stop: 51339, Start Num: 41
Candidate Starts for Rapunzel97_79:
(Start: 41 @50878 has 65 MA's), (Start: 52 @50905 has 64 MA's), (56, 50914), (67, 50974), (74,
51037), (83, 51079), (84, 51082), (101, 51220), (115, 51316), (116, 51319),

Gene: ReMo_85 Start: 47046, Stop: 46579, Start Num: 36
Candidate Starts for ReMo_85:
(Start: 36 @47046 has 14 MA's), (Start: 52 @47034 has 64 MA's), (62, 46995), (64, 46980),

Gene: Rebeuca_81 Start: 47942, Stop: 47478, Start Num: 35
Candidate Starts for Rebeuca_81:

(Start: 35 @47942 has 155 MA's), (Start: 40 @47933 has 1 MA's), (Start: 52 @47918 has 64 MA's), (92, 47681),

Gene: Relief_80 Start: 47896, Stop: 47426, Start Num: 35

Candidate Starts for Relief_80:

(Start: 30 @47914 has 3 MA's), (Start: 35 @47896 has 155 MA's), (Start: 40 @47887 has 1 MA's), (Start: 44 @47884 has 21 MA's), (54, 47866), (62, 47827), (83, 47692), (97, 47575),

Gene: Reptar3000_78 Start: 49350, Stop: 49922, Start Num: 44

Candidate Starts for Reptar3000_78:

(8, 49152), (11, 49167), (14, 49203), (16, 49224), (20, 49251), (23, 49281), (Start: 44 @49350 has 21 MA's), (Start: 47 @49359 has 12 MA's), (Start: 52 @49374 has 64 MA's), (64, 49428), (67, 49443), (76, 49521), (83, 49548), (92, 49611), (101, 49689), (132, 49890),

Gene: RhynO_68 Start: 43272, Stop: 42805, Start Num: 35

Candidate Starts for RhynO_68:

(Start: 35 @43272 has 155 MA's), (Start: 40 @43263 has 1 MA's), (Start: 52 @43245 has 64 MA's), (66, 43179), (76, 43098), (83, 43071), (97, 42954),

Gene: Rifter_86 Start: 45665, Stop: 45204, Start Num: 38

Candidate Starts for Rifter_86:

(Start: 38 @45665 has 38 MA's), (Start: 52 @45638 has 64 MA's), (65, 45578), (76, 45485), (96, 45371), (101, 45317),

Gene: Rikishi_217 Start: 105707, Stop: 106144, Start Num: 52

Candidate Starts for Rikishi_217:

(33, 105659), (Start: 52 @105707 has 64 MA's), (62, 105746), (Start: 69 @105797 has 1 MA's), (70, 105800), (73, 105836),

Gene: RockieBear_78 Start: 47901, Stop: 47428, Start Num: 35

Candidate Starts for RockieBear_78:

(Start: 30 @47919 has 3 MA's), (Start: 35 @47901 has 155 MA's), (55, 47868), (62, 47829), (64, 47814), (71, 47766), (83, 47694), (97, 47577),

Gene: Roksolana_86 Start: 46381, Stop: 45920, Start Num: 38

Candidate Starts for Roksolana_86:

(Start: 38 @46381 has 38 MA's), (Start: 52 @46354 has 64 MA's), (65, 46294), (76, 46201), (96, 46087),

Gene: Romney_80 Start: 47896, Stop: 47426, Start Num: 35

Candidate Starts for Romney_80:

(Start: 30 @47914 has 3 MA's), (Start: 35 @47896 has 155 MA's), (Start: 40 @47887 has 1 MA's), (Start: 44 @47884 has 21 MA's), (54, 47866), (62, 47827), (83, 47692), (97, 47575),

Gene: Roosevelt_79 Start: 47901, Stop: 47431, Start Num: 35

Candidate Starts for Roosevelt_79:

(Start: 30 @47919 has 3 MA's), (Start: 35 @47901 has 155 MA's), (Start: 40 @47892 has 1 MA's), (Start: 44 @47889 has 21 MA's), (54, 47871), (62, 47832), (76, 47724), (83, 47697), (92, 47634), (97, 47580),

Gene: Rosa24_77 Start: 47918, Stop: 47457, Start Num: 40

Candidate Starts for Rosa24_77:

(Start: 30 @47945 has 3 MA's), (Start: 35 @47927 has 155 MA's), (Start: 40 @47918 has 1 MA's), (Start: 44 @47915 has 21 MA's), (54, 47897), (62, 47858), (83, 47723), (97, 47606),

Gene: Rosmarinus_76 Start: 50449, Stop: 50910, Start Num: 41

Candidate Starts for Rosmarinus_76:

(Start: 41 @50449 has 65 MA's), (Start: 52 @50476 has 64 MA's), (56, 50485), (67, 50545), (74, 50608), (83, 50650), (84, 50653), (92, 50713), (101, 50791), (115, 50887), (116, 50890),

Gene: Rowdy_82 Start: 47658, Stop: 47191, Start Num: 35

Candidate Starts for Rowdy_82:

(Start: 35 @47658 has 155 MA's), (Start: 40 @47649 has 1 MA's), (Start: 52 @47631 has 64 MA's), (76, 47484), (83, 47457), (94, 47382), (97, 47340),

Gene: Ruin_81 Start: 47892, Stop: 47422, Start Num: 35

Candidate Starts for Ruin_81:

(Start: 30 @47910 has 3 MA's), (Start: 35 @47892 has 155 MA's), (Start: 40 @47883 has 1 MA's), (Start: 44 @47880 has 21 MA's), (54, 47862), (62, 47823), (83, 47688), (97, 47571),

Gene: Ruthiejr_82 Start: 51254, Stop: 51847, Start Num: 39

Candidate Starts for Ruthiejr_82:

(8, 51074), (14, 51125), (20, 51179), (23, 51209), (Start: 39 @51254 has 2 MA's), (Start: 44 @51263 has 21 MA's), (Start: 47 @51272 has 12 MA's), (Start: 52 @51287 has 64 MA's), (67, 51356), (76, 51434), (83, 51461), (88, 51482), (92, 51524), (128, 51776), (132, 51815), (134, 51839),

Gene: Sabertooth_81 Start: 47904, Stop: 47434, Start Num: 35

Candidate Starts for Sabertooth_81:

(Start: 30 @47922 has 3 MA's), (Start: 35 @47904 has 155 MA's), (Start: 40 @47895 has 1 MA's), (Start: 44 @47892 has 21 MA's), (54, 47874), (62, 47835), (83, 47700), (97, 47583),

Gene: SaltySpittoon_216 Start: 104968, Stop: 105405, Start Num: 52

Candidate Starts for SaltySpittoon_216:

(33, 104920), (Start: 52 @104968 has 64 MA's), (62, 105007), (Start: 69 @105058 has 1 MA's), (70, 105061), (73, 105097),

Gene: SamScheppers_80 Start: 51574, Stop: 52149, Start Num: 47

Candidate Starts for SamScheppers_80:

(8, 51367), (11, 51382), (14, 51418), (16, 51439), (20, 51466), (23, 51496), (Start: 39 @51556 has 2 MA's), (Start: 44 @51565 has 21 MA's), (Start: 47 @51574 has 12 MA's), (Start: 52 @51589 has 64 MA's), (67, 51658), (76, 51736), (83, 51763), (92, 51826), (101, 51904), (128, 52078), (130, 52093), (132, 52117),

Gene: SamuelLPlaqson_76 Start: 50854, Stop: 51315, Start Num: 41

Candidate Starts for SamuelLPlaqson_76:

(Start: 41 @50854 has 65 MA's), (Start: 52 @50881 has 64 MA's), (56, 50890), (61, 50917), (67, 50950), (74, 51013), (84, 51058), (101, 51196), (115, 51292), (116, 51295),

Gene: Scamp_81 Start: 47901, Stop: 47431, Start Num: 35

Candidate Starts for Scamp_81:

(Start: 30 @47919 has 3 MA's), (Start: 35 @47901 has 155 MA's), (Start: 40 @47892 has 1 MA's), (Start: 44 @47889 has 21 MA's), (54, 47871), (62, 47832), (83, 47697), (97, 47580),

Gene: ScoobyDoobyDoo_227 Start: 131341, Stop: 131811, Start Num: 47

Candidate Starts for ScoobyDoobyDoo_227:

(Start: 47 @131341 has 12 MA's), (Start: 52 @131356 has 64 MA's), (76, 131503), (92, 131590), (101, 131692), (115, 131788),

Gene: SenorClean_82 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for SenorClean_82:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's), (Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (83, 47695), (97, 47578),

Gene: SeresaTree_242 Start: 116481, Stop: 116939, Start Num: 52

Candidate Starts for SeresaTree_242:

(29, 116427), (Start: 52 @116481 has 64 MA's), (62, 116520), (80, 116649), (86, 116670), (104, 116829), (106, 116844), (117, 116925),

Gene: Severus_78 Start: 46672, Stop: 46208, Start Num: 35

Candidate Starts for Severus_78:

(Start: 35 @46672 has 155 MA's), (Start: 40 @46663 has 1 MA's), (Start: 52 @46648 has 64 MA's), (97, 46357),

Gene: Shaka_79 Start: 47897, Stop: 47427, Start Num: 35

Candidate Starts for Shaka_79:

(Start: 30 @47915 has 3 MA's), (Start: 35 @47897 has 155 MA's), (Start: 40 @47888 has 1 MA's), (Start: 44 @47885 has 21 MA's), (54, 47867), (62, 47828), (76, 47720), (83, 47693), (92, 47630), (97, 47576),

Gene: Sham_228 Start: 116010, Stop: 116459, Start Num: 52

Candidate Starts for Sham_228:

(Start: 52 @116010 has 64 MA's), (61, 116046), (62, 116049), (80, 116172), (90, 116220), (100, 116313), (101, 116328), (106, 116367),

Gene: Shapes_82 Start: 47658, Stop: 47191, Start Num: 35

Candidate Starts for Shapes_82:

(Start: 35 @47658 has 155 MA's), (Start: 40 @47649 has 1 MA's), (Start: 52 @47631 has 64 MA's), (76, 47484), (83, 47457), (94, 47382), (97, 47340),

Gene: ShayRa_85 Start: 45678, Stop: 45211, Start Num: 36

Candidate Starts for ShayRa_85:

(Start: 36 @45678 has 14 MA's), (Start: 52 @45666 has 64 MA's), (62, 45627), (64, 45612),

Gene: ShedlockHolmes_81 Start: 51455, Stop: 52018, Start Num: 18

Candidate Starts for ShedlockHolmes_81:

(Start: 18 @51455 has 7 MA's), (25, 51512), (31, 51536), (Start: 52 @51587 has 64 MA's), (54, 51593), (61, 51623), (67, 51656), (71, 51689), (76, 51734), (90, 51797), (92, 51824), (107, 51956),

Gene: Sheen_78 Start: 49775, Stop: 49302, Start Num: 34

Candidate Starts for Sheen_78:

(32, 49787), (Start: 34 @49775 has 8 MA's), (Start: 52 @49742 has 64 MA's), (61, 49706), (67, 49673), (76, 49595), (83, 49568), (92, 49505), (96, 49481), (115, 49325), (116, 49322),

Gene: SheldonCooper_81 Start: 48337, Stop: 47867, Start Num: 35

Candidate Starts for SheldonCooper_81:

(Start: 30 @48355 has 3 MA's), (Start: 35 @48337 has 155 MA's), (Start: 40 @48328 has 1 MA's), (Start: 44 @48325 has 21 MA's), (54, 48307), (62, 48268), (83, 48133), (97, 48016),

Gene: ShiaSurprise_77 Start: 50658, Stop: 51119, Start Num: 41

Candidate Starts for ShiaSurprise_77:

(Start: 41 @50658 has 65 MA's), (Start: 52 @50685 has 64 MA's), (56, 50694), (67, 50754), (74, 50817), (83, 50859), (84, 50862), (92, 50922), (101, 51000), (115, 51096), (116, 51099),

Gene: Shygu2_79 Start: 47843, Stop: 47373, Start Num: 35

Candidate Starts for Shygu2_79:

(Start: 30 @47861 has 3 MA's), (Start: 35 @47843 has 155 MA's), (Start: 40 @47834 has 1 MA's), (Start: 44 @47831 has 21 MA's), (54, 47813), (62, 47774), (83, 47639), (97, 47522),

Gene: Skipitt_80 Start: 47911, Stop: 47423, Start Num: 30

Candidate Starts for Skipitt_80:

(Start: 30 @47911 has 3 MA's), (Start: 35 @47893 has 155 MA's), (Start: 40 @47884 has 1 MA's), (Start: 44 @47881 has 21 MA's), (54, 47863), (62, 47824), (83, 47689), (97, 47572),

Gene: Slarp_81 Start: 51231, Stop: 51815, Start Num: 44

Candidate Starts for Slarp_81:

(8, 51042), (14, 51093), (20, 51147), (23, 51177), (Start: 39 @51222 has 2 MA's), (Start: 44 @51231 has 21 MA's), (Start: 47 @51240 has 12 MA's), (Start: 52 @51255 has 64 MA's), (67, 51324), (76, 51402), (77, 51405), (83, 51429), (88, 51450), (92, 51492), (101, 51570), (128, 51744), (132, 51783),

Gene: Slimphazie_78 Start: 50878, Stop: 51339, Start Num: 41

Candidate Starts for Slimphazie_78:

(Start: 41 @50878 has 65 MA's), (Start: 52 @50905 has 64 MA's), (56, 50914), (67, 50974), (74, 51037), (83, 51079), (84, 51082), (101, 51220), (115, 51316), (116, 51319),

Gene: SmellyB_84 Start: 46012, Stop: 45551, Start Num: 38

Candidate Starts for SmellyB_84:

(Start: 38 @46012 has 38 MA's), (Start: 52 @45985 has 64 MA's), (65, 45925), (76, 45832), (101, 45664),

Gene: Sollertia_217 Start: 106204, Stop: 106641, Start Num: 52

Candidate Starts for Sollertia_217:

(Start: 52 @106204 has 64 MA's), (62, 106243), (Start: 69 @106294 has 1 MA's), (70, 106297), (73, 106333), (89, 106417),

Gene: SororFago_83 Start: 47758, Stop: 47291, Start Num: 44

Candidate Starts for SororFago_83:

(Start: 44 @47758 has 21 MA's), (Start: 52 @47746 has 64 MA's), (83, 47566), (88, 47545), (92, 47506), (102, 47416), (105, 47395),

Gene: SparkleGoddess_238 Start: 115994, Stop: 116452, Start Num: 52

Candidate Starts for SparkleGoddess_238:

(Start: 50 @115991 has 2 MA's), (Start: 52 @115994 has 64 MA's), (62, 116033), (74, 116132), (77, 116150), (86, 116183), (90, 116210), (101, 116318), (117, 116438), (118, 116441),

Gene: Sparxx_82 Start: 47895, Stop: 47425, Start Num: 35

Candidate Starts for Sparxx_82:

(Start: 30 @47913 has 3 MA's), (Start: 35 @47895 has 155 MA's), (Start: 40 @47886 has 1 MA's), (Start: 44 @47883 has 21 MA's), (54, 47865), (62, 47826), (76, 47718), (83, 47691), (92, 47628), (97, 47574),

Gene: Spelly_221 Start: 104897, Stop: 105334, Start Num: 52

Candidate Starts for Spelly_221:

(33, 104849), (Start: 52 @104897 has 64 MA's), (62, 104936), (Start: 69 @104987 has 1 MA's), (70, 104990), (73, 105026),

Gene: Spilled_223 Start: 106101, Stop: 106538, Start Num: 52

Candidate Starts for Spilled_223:

(33, 106053), (Start: 52 @106101 has 64 MA's), (62, 106140), (Start: 69 @106191 has 1 MA's), (70, 106194), (73, 106230),

Gene: Spino_80 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for Spino_80:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's), (Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (83, 47695), (97, 47578),

Gene: Spock_76 Start: 50462, Stop: 50923, Start Num: 41

Candidate Starts for Spock_76:

(Start: 41 @50462 has 65 MA's), (Start: 52 @50489 has 64 MA's), (56, 50498), (67, 50558), (74, 50621), (83, 50663), (84, 50666), (92, 50726), (101, 50804), (115, 50900), (116, 50903),

Gene: Stanimal_216 Start: 106576, Stop: 107013, Start Num: 52

Candidate Starts for Stanimal_216:

(Start: 52 @106576 has 64 MA's), (62, 106615), (Start: 69 @106666 has 1 MA's), (70, 106669), (73, 106705), (89, 106789),

Gene: StarPlatinum_225 Start: 108298, Stop: 108735, Start Num: 52

Candidate Starts for StarPlatinum_225:

(Start: 52 @108298 has 64 MA's), (62, 108337), (Start: 69 @108388 has 1 MA's), (72, 108418), (73, 108427),

Gene: Starbow_213 Start: 104941, Stop: 105378, Start Num: 52

Candidate Starts for Starbow_213:

(33, 104893), (Start: 52 @104941 has 64 MA's), (62, 104980), (Start: 69 @105031 has 1 MA's), (70, 105034), (73, 105070),

Gene: Stasia_78 Start: 47849, Stop: 47385, Start Num: 35

Candidate Starts for Stasia_78:

(Start: 35 @47849 has 155 MA's), (Start: 40 @47840 has 1 MA's), (Start: 52 @47825 has 64 MA's), (67, 47756),

Gene: SteMason_77 Start: 47896, Stop: 47426, Start Num: 35

Candidate Starts for SteMason_77:

(Start: 30 @47914 has 3 MA's), (Start: 35 @47896 has 155 MA's), (Start: 40 @47887 has 1 MA's), (Start: 44 @47884 has 21 MA's), (54, 47866), (62, 47827), (83, 47692), (97, 47575),

Gene: Stigma_236 Start: 115959, Stop: 116417, Start Num: 52

Candidate Starts for Stigma_236:

(Start: 50 @115956 has 2 MA's), (Start: 52 @115959 has 64 MA's), (62, 115998), (74, 116097), (77, 116115), (86, 116148), (90, 116175), (101, 116283), (117, 116403), (118, 116406),

Gene: Stink_81 Start: 48123, Stop: 47653, Start Num: 35

Candidate Starts for Stink_81:

(Start: 30 @48141 has 3 MA's), (Start: 35 @48123 has 155 MA's), (Start: 44 @48108 has 21 MA's), (Start: 52 @48096 has 64 MA's), (54, 48090), (64, 48036), (67, 48021), (83, 47916), (97, 47799),

Gene: Strobilo_83 Start: 53322, Stop: 53891, Start Num: 48

Candidate Starts for Strobilo_83:

(Start: 48 @53322 has 12 MA's), (Start: 52 @53331 has 64 MA's), (60, 53361), (71, 53433), (76, 53478), (83, 53505), (84, 53508), (92, 53568), (129, 53832), (131, 53847),

Gene: Sultana_81 Start: 47896, Stop: 47426, Start Num: 35

Candidate Starts for Sultana_81:

(Start: 30 @47914 has 3 MA's), (Start: 35 @47896 has 155 MA's), (Start: 40 @47887 has 1 MA's), (Start: 44 @47884 has 21 MA's), (54, 47866), (62, 47827), (83, 47692), (97, 47575),

Gene: Sunhee_85 Start: 46182, Stop: 45712, Start Num: 44

Candidate Starts for Sunhee_85:

(Start: 44 @46182 has 21 MA's), (Start: 52 @46170 has 64 MA's), (76, 46017), (83, 45990), (88, 45969), (102, 45840), (115, 45744),

Gene: SuperAwesome_84 Start: 46693, Stop: 46232, Start Num: 38

Candidate Starts for SuperAwesome_84:

(Start: 38 @46693 has 38 MA's), (Start: 52 @46666 has 64 MA's), (65, 46606), (76, 46513), (101, 46345),

Gene: Switzerland_85 Start: 46647, Stop: 46180, Start Num: 36

Candidate Starts for Switzerland_85:

(Start: 36 @46647 has 14 MA's), (Start: 52 @46635 has 64 MA's), (62, 46596), (64, 46581),

Gene: TBond007_75 Start: 50937, Stop: 51500, Start Num: 18

Candidate Starts for TBond007_75:

(Start: 18 @50937 has 7 MA's), (25, 50994), (31, 51018), (Start: 52 @51069 has 64 MA's), (54, 51075), (61, 51105), (67, 51138), (71, 51171), (76, 51216), (90, 51279), (92, 51306), (107, 51438),

Gene: TClif_92 Start: 57429, Stop: 58010, Start Num: 48

Candidate Starts for TClif_92:

(Start: 48 @57429 has 12 MA's), (Start: 52 @57441 has 64 MA's), (54, 57447), (76, 57588), (83, 57615), (92, 57678), (111, 57834),

Gene: TM4_80 Start: 47753, Stop: 48331, Start Num: 48

Candidate Starts for TM4_80:

(Start: 48 @47753 has 12 MA's), (Start: 52 @47765 has 64 MA's), (76, 47912), (83, 47939), (84, 47942), (92, 48002), (124, 48245), (129, 48272), (131, 48287),

Gene: Tachez_76 Start: 50306, Stop: 50767, Start Num: 41

Candidate Starts for Tachez_76:

(Start: 41 @50306 has 65 MA's), (Start: 52 @50333 has 64 MA's), (56, 50342), (67, 50402), (74, 50465), (83, 50507), (84, 50510), (92, 50570), (101, 50648), (115, 50744), (116, 50747),

Gene: Taquarus_80 Start: 47905, Stop: 47432, Start Num: 35

Candidate Starts for Taquarus_80:

(Start: 30 @47923 has 3 MA's), (Start: 35 @47905 has 155 MA's), (55, 47872), (62, 47833), (64, 47818), (71, 47770), (83, 47698), (97, 47581),

Gene: Taquito_80 Start: 51265, Stop: 51849, Start Num: 44

Candidate Starts for Taquito_80:

(8, 51076), (14, 51127), (20, 51181), (23, 51211), (Start: 39 @51256 has 2 MA's), (Start: 44 @51265 has 21 MA's), (Start: 47 @51274 has 12 MA's), (Start: 52 @51289 has 64 MA's), (67, 51358), (76, 51436), (77, 51439), (83, 51463), (88, 51484), (92, 51526), (101, 51604), (128, 51778), (132, 51817),

Gene: Temprado_87 Start: 46485, Stop: 46024, Start Num: 38

Candidate Starts for Temprado_87:

(Start: 38 @46485 has 38 MA's), (Start: 52 @46458 has 64 MA's), (65, 46398), (76, 46305), (96, 46191),

Gene: Thanksgivukkah_80 Start: 47897, Stop: 47427, Start Num: 35

Candidate Starts for Thanksgivukkah_80:

(4, 48128), (Start: 30 @47915 has 3 MA's), (Start: 35 @47897 has 155 MA's), (Start: 40 @47888 has 1 MA's), (Start: 44 @47885 has 21 MA's), (54, 47867), (62, 47828), (83, 47693), (97, 47576),

Gene: Tierra_81 Start: 51365, Stop: 51937, Start Num: 44

Candidate Starts for Tierra_81:

(Start: 44 @51365 has 21 MA's), (Start: 52 @51386 has 64 MA's), (67, 51455), (71, 51488), (73, 51509), (76, 51533), (84, 51563), (92, 51623), (101, 51701), (107, 51755), (111, 51779), (121, 51830), (133, 51917),

Gene: Timshel_78 Start: 49748, Stop: 49266, Start Num: 34

Candidate Starts for Timshel_78:

(7, 49943), (9, 49922), (Start: 30 @49763 has 3 MA's), (Start: 34 @49748 has 8 MA's), (Start: 38 @49739 has 38 MA's), (Start: 40 @49736 has 1 MA's), (Start: 47 @49721 has 12 MA's), (Start: 48 @49718 has 12 MA's), (Start: 50 @49709 has 2 MA's), (Start: 52 @49706 has 64 MA's), (61, 49670), (90, 49493), (91, 49484), (107, 49334), (108, 49331),

Gene: TinaFeyge_79 Start: 47894, Stop: 47424, Start Num: 35

Candidate Starts for TinaFeyge_79:

(Start: 30 @47912 has 3 MA's), (Start: 35 @47894 has 155 MA's), (Start: 40 @47885 has 1 MA's), (Start: 44 @47882 has 21 MA's), (54, 47864), (62, 47825), (76, 47717), (83, 47690), (92, 47627), (97, 47573),

Gene: TingHuaYa_80 Start: 51141, Stop: 51602, Start Num: 41

Candidate Starts for TingHuaYa_80:

(Start: 41 @51141 has 65 MA's), (46, 51147), (Start: 52 @51168 has 64 MA's), (56, 51177), (67, 51237), (75, 51312), (83, 51342), (84, 51345), (92, 51405), (101, 51483), (116, 51582),

Gene: TiniBug_76 Start: 50853, Stop: 51314, Start Num: 41

Candidate Starts for TiniBug_76:

(Start: 41 @50853 has 65 MA's), (Start: 52 @50880 has 64 MA's), (56, 50889), (61, 50916), (67, 50949), (74, 51012), (84, 51057), (101, 51195), (115, 51291), (116, 51294),

Gene: Tinybot_80 Start: 47926, Stop: 47456, Start Num: 35

Candidate Starts for Tinybot_80:

(Start: 30 @47944 has 3 MA's), (Start: 35 @47926 has 155 MA's), (Start: 40 @47917 has 1 MA's), (Start: 44 @47914 has 21 MA's), (54, 47896), (62, 47857), (83, 47722), (97, 47605),

Gene: TiroTheta9_80 Start: 47893, Stop: 47423, Start Num: 35

Candidate Starts for TiroTheta9_80:

(Start: 30 @47911 has 3 MA's), (Start: 35 @47893 has 155 MA's), (Start: 40 @47884 has 1 MA's), (Start: 44 @47881 has 21 MA's), (54, 47863), (62, 47824), (76, 47716), (83, 47689), (92, 47626), (97, 47572),

Gene: TomSawyer_220 Start: 107412, Stop: 107849, Start Num: 52
Candidate Starts for TomSawyer_220:
(33, 107364), (Start: 52 @107412 has 64 MA's), (62, 107451), (Start: 69 @107502 has 1 MA's), (70, 107505), (73, 107541),

Gene: Tomas_215 Start: 106606, Stop: 107055, Start Num: 52
Candidate Starts for Tomas_215:
(Start: 52 @106606 has 64 MA's), (62, 106645), (64, 106660), (70, 106699), (79, 106768), (110, 107002),

Gene: ToneTone_83 Start: 46045, Stop: 45584, Start Num: 38
Candidate Starts for ToneTone_83:
(Start: 38 @46045 has 38 MA's), (Start: 52 @46018 has 64 MA's), (65, 45958), (76, 45865), (96, 45751),

Gene: Topanga_69 Start: 44300, Stop: 43836, Start Num: 35
Candidate Starts for Topanga_69:
(Start: 35 @44300 has 155 MA's), (Start: 52 @44276 has 64 MA's), (59, 44252),

Gene: Topper_76 Start: 50461, Stop: 50922, Start Num: 41
Candidate Starts for Topper_76:
(Start: 41 @50461 has 65 MA's), (Start: 52 @50488 has 64 MA's), (56, 50497), (67, 50557), (74, 50620), (83, 50662), (84, 50665), (92, 50725), (101, 50803), (115, 50899), (116, 50902),

Gene: Toro_79 Start: 50438, Stop: 49965, Start Num: 34
Candidate Starts for Toro_79:
(32, 50450), (Start: 34 @50438 has 8 MA's), (Start: 52 @50405 has 64 MA's), (61, 50369), (67, 50336), (76, 50258), (83, 50231), (92, 50168), (96, 50144), (115, 49988), (116, 49985),

Gene: TreyKay_79 Start: 50926, Stop: 51387, Start Num: 41
Candidate Starts for TreyKay_79:
(Start: 41 @50926 has 65 MA's), (Start: 52 @50953 has 64 MA's), (56, 50962), (67, 51022), (74, 51085), (84, 51130), (101, 51268), (115, 51364), (116, 51367),

Gene: Tristan_80 Start: 48549, Stop: 48079, Start Num: 35
Candidate Starts for Tristan_80:
(Start: 35 @48549 has 155 MA's), (Start: 40 @48540 has 1 MA's), (Start: 52 @48525 has 64 MA's), (61, 48489), (83, 48345), (92, 48285),

Gene: TroyPia_82 Start: 47934, Stop: 47464, Start Num: 35
Candidate Starts for TroyPia_82:
(Start: 30 @47952 has 3 MA's), (Start: 35 @47934 has 155 MA's), (Start: 40 @47925 has 1 MA's), (Start: 44 @47922 has 21 MA's), (54, 47904), (62, 47865), (83, 47730), (97, 47613),

Gene: TruffulaTree_78 Start: 50874, Stop: 51335, Start Num: 41
Candidate Starts for TruffulaTree_78:
(Start: 41 @50874 has 65 MA's), (Start: 52 @50901 has 64 MA's), (56, 50910), (67, 50970), (74, 51033), (83, 51075), (84, 51078), (101, 51216), (115, 51312), (116, 51315),

Gene: Tucker_86 Start: 46248, Stop: 45787, Start Num: 38
Candidate Starts for Tucker_86:

(Start: 38 @46248 has 38 MA's), (Start: 52 @46221 has 64 MA's), (65, 46161), (76, 46068), (96, 45954),

Gene: Twister_80 Start: 47500, Stop: 47036, Start Num: 35

Candidate Starts for Twister_80:

(Start: 35 @47500 has 155 MA's), (42, 47488), (Start: 52 @47476 has 64 MA's), (76, 47329), (83, 47302), (97, 47185),

Gene: Twitch_76 Start: 50463, Stop: 50924, Start Num: 41

Candidate Starts for Twitch_76:

(Start: 41 @50463 has 65 MA's), (Start: 52 @50490 has 64 MA's), (56, 50499), (67, 50559), (74, 50622), (83, 50664), (84, 50667), (92, 50727), (101, 50805), (115, 50901), (116, 50904),

Gene: TygerBlood_81 Start: 47899, Stop: 47429, Start Num: 35

Candidate Starts for TygerBlood_81:

(Start: 30 @47917 has 3 MA's), (Start: 35 @47899 has 155 MA's), (Start: 40 @47890 has 1 MA's), (Start: 44 @47887 has 21 MA's), (54, 47869), (62, 47830), (83, 47695), (97, 47578),

Gene: Ulysses_80 Start: 47582, Stop: 47112, Start Num: 35

Candidate Starts for Ulysses_80:

(Start: 30 @47600 has 3 MA's), (Start: 35 @47582 has 155 MA's), (Start: 40 @47573 has 1 MA's), (Start: 44 @47570 has 21 MA's), (54, 47552), (62, 47513), (83, 47378), (97, 47261),

Gene: Unicorn_81 Start: 51079, Stop: 51651, Start Num: 44

Candidate Starts for Unicorn_81:

(Start: 44 @51079 has 21 MA's), (Start: 52 @51100 has 64 MA's), (67, 51169), (71, 51202), (73, 51223), (76, 51247), (84, 51277), (92, 51337), (101, 51415), (107, 51469), (111, 51493), (133, 51631),

Gene: Urkel_76 Start: 50854, Stop: 51315, Start Num: 41

Candidate Starts for Urkel_76:

(Start: 41 @50854 has 65 MA's), (Start: 52 @50881 has 64 MA's), (56, 50890), (61, 50917), (67, 50950), (74, 51013), (84, 51058), (101, 51196), (115, 51292), (116, 51295),

Gene: Veliki_77 Start: 50414, Stop: 50875, Start Num: 41

Candidate Starts for Veliki_77:

(Start: 41 @50414 has 65 MA's), (Start: 52 @50441 has 64 MA's), (56, 50450), (67, 50510), (74, 50573), (83, 50615), (84, 50618), (101, 50756), (115, 50852), (116, 50855),

Gene: VohminGhazi_84 Start: 46013, Stop: 45552, Start Num: 38

Candidate Starts for VohminGhazi_84:

(Start: 38 @46013 has 38 MA's), (Start: 52 @45986 has 64 MA's), (65, 45926), (76, 45833), (101, 45665),

Gene: Waits_87 Start: 47034, Stop: 46567, Start Num: 36

Candidate Starts for Waits_87:

(Start: 36 @47034 has 14 MA's), (Start: 52 @47022 has 64 MA's), (62, 46983), (64, 46968),

Gene: Wakanda_212 Start: 105499, Stop: 105951, Start Num: 52

Candidate Starts for Wakanda_212:

(Start: 52 @105499 has 64 MA's), (59, 105523), (62, 105538), (63, 105541), (74, 105631), (77, 105649), (86, 105682), (109, 105883),

Gene: WalterMcMickey_79 Start: 47500, Stop: 47036, Start Num: 35

Candidate Starts for WalterMcMickey_79:

(Start: 35 @47500 has 155 MA's), (42, 47488), (Start: 52 @47476 has 64 MA's), (76, 47329), (83, 47302), (97, 47185),

Gene: Wander_81 Start: 47893, Stop: 47423, Start Num: 35

Candidate Starts for Wander_81:

(Start: 30 @47911 has 3 MA's), (Start: 35 @47893 has 155 MA's), (Start: 40 @47884 has 1 MA's), (Start: 44 @47881 has 21 MA's), (54, 47863), (62, 47824), (83, 47689), (97, 47572),

Gene: Westy_239 Start: 116391, Stop: 116849, Start Num: 52

Candidate Starts for Westy_239:

(Start: 50 @116388 has 2 MA's), (Start: 52 @116391 has 64 MA's), (62, 116430), (74, 116529), (77, 116547), (86, 116580), (90, 116607), (100, 116700), (101, 116715), (117, 116835), (118, 116838),

Gene: Wiks_85 Start: 46116, Stop: 45655, Start Num: 38

Candidate Starts for Wiks_85:

(Start: 38 @46116 has 38 MA's), (Start: 52 @46089 has 64 MA's), (65, 46029), (76, 45936), (96, 45822),

Gene: Wilbur_81 Start: 47896, Stop: 47426, Start Num: 35

Candidate Starts for Wilbur_81:

(Start: 30 @47914 has 3 MA's), (Start: 35 @47896 has 155 MA's), (Start: 40 @47887 has 1 MA's), (Start: 44 @47884 has 21 MA's), (54, 47866), (62, 47827), (83, 47692), (97, 47575),

Gene: Wile_76 Start: 47547, Stop: 47080, Start Num: 35

Candidate Starts for Wile_76:

(Start: 30 @47565 has 3 MA's), (Start: 35 @47547 has 155 MA's), (Start: 40 @47538 has 1 MA's), (Start: 44 @47535 has 21 MA's), (54, 47517), (62, 47478), (83, 47343), (92, 47280), (97, 47226),

Gene: Wintermute_81 Start: 51441, Stop: 52025, Start Num: 44

Candidate Starts for Wintermute_81:

(8, 51252), (14, 51303), (20, 51357), (23, 51387), (Start: 39 @51432 has 2 MA's), (Start: 44 @51441 has 21 MA's), (Start: 47 @51450 has 12 MA's), (Start: 52 @51465 has 64 MA's), (67, 51534), (74, 51597), (76, 51612), (83, 51639), (92, 51702), (128, 51954), (132, 51993),

Gene: Wipeout_207 Start: 106454, Stop: 106801, Start Num: 69

Candidate Starts for Wipeout_207:

(33, 106316), (Start: 52 @106364 has 64 MA's), (62, 106403), (Start: 69 @106454 has 1 MA's), (70, 106457), (73, 106493),

Gene: Wizard007_77 Start: 47273, Stop: 46806, Start Num: 35

Candidate Starts for Wizard007_77:

(Start: 30 @47291 has 3 MA's), (Start: 35 @47273 has 155 MA's), (Start: 40 @47264 has 1 MA's), (Start: 44 @47261 has 21 MA's), (54, 47243), (62, 47204), (83, 47069), (92, 47006), (97, 46952),

Gene: Wofford_218 Start: 109219, Stop: 109656, Start Num: 52

Candidate Starts for Wofford_218:

(Start: 52 @109219 has 64 MA's), (62, 109258), (Start: 69 @109309 has 1 MA's), (70, 109312), (73, 109348), (89, 109432),

Gene: WunderPhul_86 Start: 46114, Stop: 45653, Start Num: 38

Candidate Starts for WunderPhul_86:

(Start: 38 @46114 has 38 MA's), (Start: 52 @46087 has 64 MA's), (65, 46027), (76, 45934), (96, 45820),

Gene: Xena_77 Start: 47718, Stop: 47248, Start Num: 35

Candidate Starts for Xena_77:

(Start: 30 @47736 has 3 MA's), (Start: 35 @47718 has 155 MA's), (Start: 40 @47709 has 1 MA's), (Start: 44 @47706 has 21 MA's), (54, 47688), (62, 47649), (83, 47514), (97, 47397),

Gene: Y10_78 Start: 51399, Stop: 51974, Start Num: 47

Candidate Starts for Y10_78:

(8, 51201), (14, 51252), (20, 51306), (23, 51336), (Start: 39 @51381 has 2 MA's), (Start: 44 @51390 has 21 MA's), (Start: 47 @51399 has 12 MA's), (Start: 52 @51414 has 64 MA's), (67, 51483), (76, 51561), (83, 51588), (88, 51609), (92, 51651), (128, 51903), (132, 51942), (134, 51966),

Gene: Y2_78 Start: 51399, Stop: 51974, Start Num: 47

Candidate Starts for Y2_78:

(8, 51201), (14, 51252), (20, 51306), (23, 51336), (Start: 39 @51381 has 2 MA's), (Start: 44 @51390 has 21 MA's), (Start: 47 @51399 has 12 MA's), (Start: 52 @51414 has 64 MA's), (67, 51483), (76, 51561), (83, 51588), (88, 51609), (92, 51651), (128, 51903), (132, 51942), (134, 51966),

Gene: Yaboi_221 Start: 106139, Stop: 106576, Start Num: 52

Candidate Starts for Yaboi_221:

(Start: 52 @106139 has 64 MA's), (62, 106178), (Start: 69 @106229 has 1 MA's), (70, 106232), (73, 106268), (89, 106352),

Gene: Yakult_36 Start: 26432, Stop: 25950, Start Num: 41

Candidate Starts for Yakult_36:

(13, 26600), (15, 26579), (17, 26549), (Start: 41 @26432 has 65 MA's), (Start: 52 @26408 has 64 MA's), (76, 26261), (78, 26255), (84, 26231), (94, 26162),

Gene: YasnayaPolyana_80 Start: 51374, Stop: 51949, Start Num: 47

Candidate Starts for YasnayaPolyana_80:

(8, 51176), (14, 51227), (20, 51281), (23, 51311), (Start: 39 @51356 has 2 MA's), (Start: 44 @51365 has 21 MA's), (Start: 47 @51374 has 12 MA's), (Start: 52 @51389 has 64 MA's), (67, 51458), (76, 51536), (83, 51563), (92, 51626), (101, 51704), (128, 51878), (132, 51917),

Gene: YoSam321_81 Start: 47894, Stop: 47424, Start Num: 35

Candidate Starts for YoSam321_81:

(Start: 30 @47912 has 3 MA's), (Start: 35 @47894 has 155 MA's), (Start: 40 @47885 has 1 MA's), (Start: 44 @47882 has 21 MA's), (54, 47864), (62, 47825), (83, 47690), (97, 47573),

Gene: Yokurt_85 Start: 46116, Stop: 45655, Start Num: 38

Candidate Starts for Yokurt_85:

(Start: 38 @46116 has 38 MA's), (Start: 52 @46089 has 64 MA's), (65, 46029), (76, 45936), (96, 45822),

Gene: Yuna_80 Start: 52283, Stop: 52852, Start Num: 18

Candidate Starts for Yuna_80:

(Start: 18 @52283 has 7 MA's), (22, 52313), (25, 52340), (27, 52343), (Start: 52 @52418 has 64 MA's), (54, 52424), (59, 52442), (67, 52487), (71, 52520), (76, 52565), (83, 52592), (92, 52655), (101, 52733), (107, 52787),

Gene: Yunkel11_82 Start: 51044, Stop: 51505, Start Num: 41

Candidate Starts for Yunkel11_82:

(Start: 41 @51044 has 65 MA's), (Start: 52 @51071 has 64 MA's), (56, 51080), (67, 51140), (71, 51173), (75, 51215), (83, 51245), (84, 51248), (92, 51308), (101, 51386), (115, 51482), (116, 51485),

Gene: Zabiza_72 Start: 46811, Stop: 47272, Start Num: 41

Candidate Starts for Zabiza_72:

(Start: 41 @46811 has 65 MA's), (Start: 52 @46838 has 64 MA's), (56, 46847), (67, 46907), (74, 46970), (83, 47012), (84, 47015), (92, 47075), (101, 47153), (115, 47249), (116, 47252),

Gene: Zaka_86 Start: 46116, Stop: 45655, Start Num: 38

Candidate Starts for Zaka_86:

(Start: 38 @46116 has 38 MA's), (Start: 52 @46089 has 64 MA's), (65, 46029), (76, 45936), (96, 45822),

Gene: Zavala_79 Start: 50952, Stop: 51413, Start Num: 41

Candidate Starts for Zavala_79:

(Start: 41 @50952 has 65 MA's), (Start: 48 @50967 has 12 MA's), (Start: 52 @50979 has 64 MA's), (56, 50988), (67, 51048), (74, 51111), (83, 51153), (84, 51156), (101, 51294), (115, 51390), (116, 51393),

Gene: ZoeJ_81 Start: 52756, Stop: 53337, Start Num: 48

Candidate Starts for ZoeJ_81:

(Start: 48 @52756 has 12 MA's), (Start: 52 @52768 has 64 MA's), (76, 52915), (83, 52942), (84, 52945), (92, 53005), (123, 53221), (124, 53248), (129, 53278), (131, 53293),

Gene: Zooman_12 Start: 5578, Stop: 6045, Start Num: 52

Candidate Starts for Zooman_12:

(Start: 52 @5578 has 64 MA's), (62, 5617), (63, 5620), (92, 5821), (99, 5884), (101, 5899), (108, 5959),

Gene: Zooman_325 Start: 181229, Stop: 181696, Start Num: 52

Candidate Starts for Zooman_325:

(Start: 52 @181229 has 64 MA's), (62, 181268), (63, 181271), (92, 181472), (99, 181535), (101, 181550), (108, 181610),

Gene: Zulu_87 Start: 46494, Stop: 46033, Start Num: 38

Candidate Starts for Zulu_87:

(Start: 38 @46494 has 38 MA's), (Start: 52 @46467 has 64 MA's), (65, 46407), (76, 46314), (96, 46200),