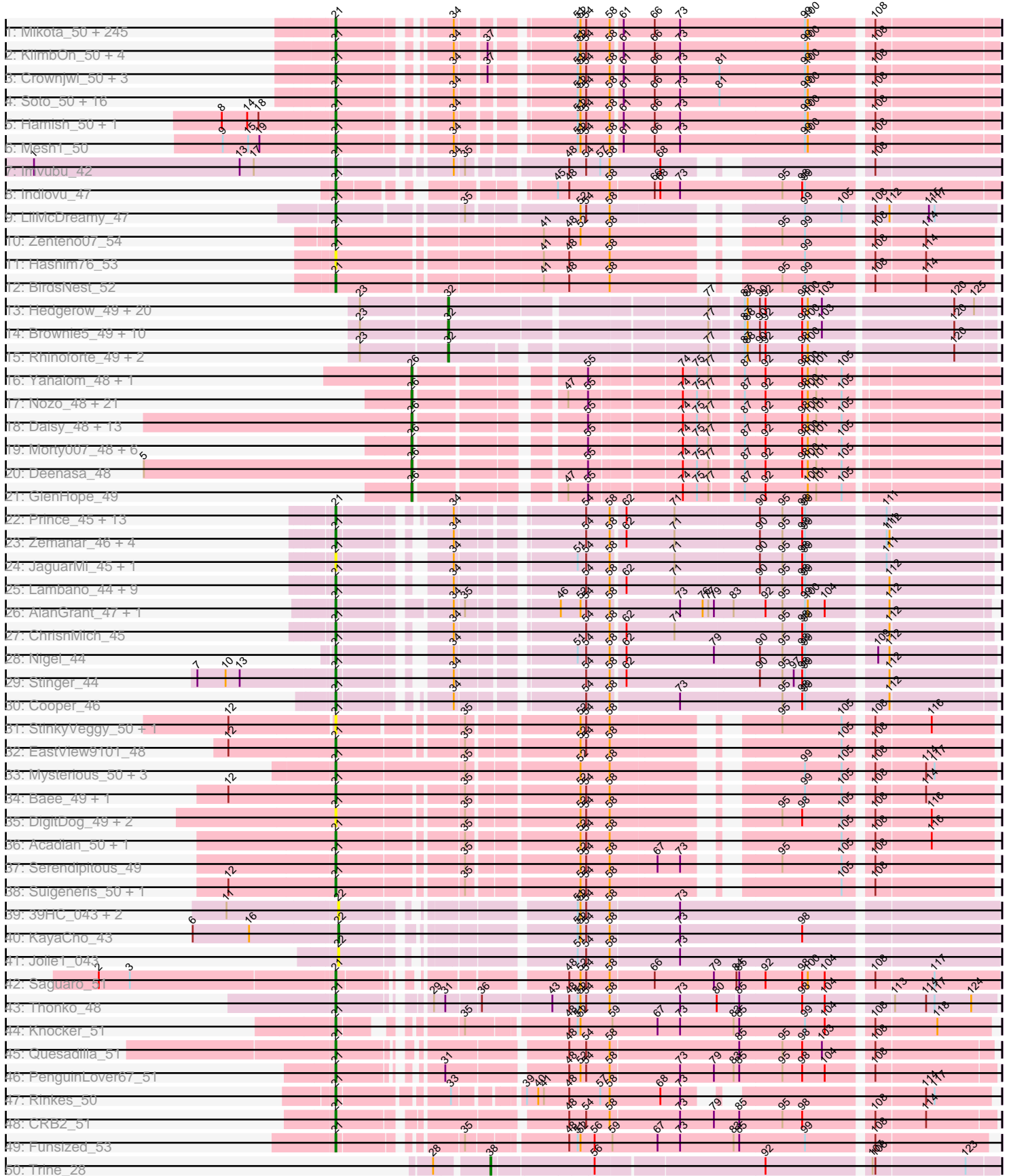
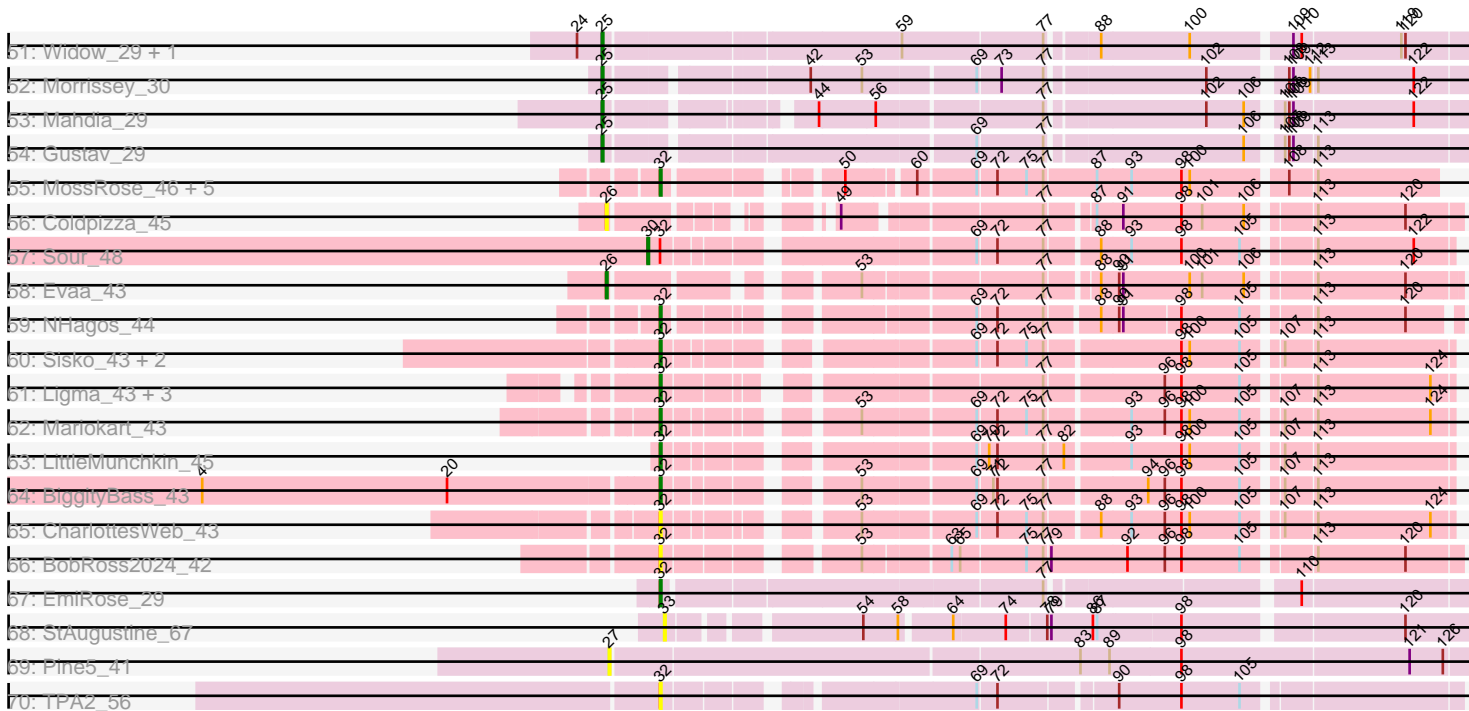


Pham 189341



Pham 189341



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 189341 Report

This analysis was run 11/02/24 on database version 579.

Pham number 189341 has 462 members, 48 are drafts.

Phages represented in each track:

- Track 1 : Mikota_50, Bluephacebaby_49, HighStump_50, Hartsy_50, Piglet_0050, Apizium_50, Frankicide_50, CamL_50, Beaglebox_49, PhenghisKhan_49, DoesntMatter_49, Haleema_49, BlueHusk_50, Chute_49, LostAndPhound_49, Suffolk_50, Lasso_50, True_49, Solosis_49, Timmi_49, ThreeOh3D2_51, AbsoluteMadLad_49, Dice_49, Lulumae_49, Skippy_50, LeiMonet_51, PhatLouie_50, ImtiyazSitla_50, Daka_51, Dati_50, Eugenia_50, Telesworld_49, YouGoGlencoco_50, SassyCat97_49, Serendipity_50, Kloppinator_51, Trypo_51, Roy17_50, Jiraiya_52, Squiggle_50, Maskar_50, Phergie_50, Zaider_51, Xavier_49, Fringe_51, Jillium_49, DirtJuice_50, Kwadwo_49, Haimas_50, TallGrassMM_50, HenryJackson_49, Burr_49, Pherdinand_51, Orwigg_51, Vaishali24_49, FugateOSU_49, Etaye_50, Surely_50, Mag7_49, Robyn_49, Chorkpop_50, Nyala_49, Pipsqueak_50, Melc17_50, Virapocalypse_50, Gareth_49, Andre_51, Kikipoo_51, CheetO_50, Ricotta_49, Valjean_50, Squid_50, Morty_51, Daffy_50, Roscoe_51, DonSancho_49, Vivaldi_51, Potter_49, Magic8_50, Morgushi_50, Orfeu_49, Numberten_50, MiniBoss_50, Serpentine_0050, Hetaeria_50, Soile_50, Spartan300_50, Mulan_50, Prickles_50, Fozzie_49, JangoPhett_50, Horchata_50, KingTut_41, MRabcd_49, MitKao_50, Boehler_50, Kahve_49, Keitherie_50, Rimu_52, Vista_50, Inchworm_51, Riggan_50, Lumine_49, UAch1_50, Olive_50, Fang_51, Kailash_50, CharlieGBrown_49, Quisquilliae_50, Placalicious_49, BatteryCK_49, Cosmolli16_49, BlackStallion_51, JDog_49, FriarPreacher_49, Nicole21_50, Kwksand96_49, Slatt_50, Carthage_48, Waterdiva_50, Dione_49, KLucky39_50, Selr12_50, Phleuron_49, LuckyMarjie_49, Pacifista_49, Ashraf_50, Tooj_50, Cher_49, UncleHowie_50, LasagnaCat_51, Veritas_49, MrPhizzler_49, OSmaximus_51, PhrankReynolds_48, ProfessorX_50, Gophee_50, Thora_50, Schueller_50, MichaelPhcott_49, Megatron_51, LeeLot_50, Phunky_50, ShiVal_50, Simielle_49, PinheadLarry_50, DelRivs_49, Phipps_50, MelsMeow_50, Altwerkus_49, Aelin_49, Maru_49, CampRoach_51, Kimbrough_50, Childish_49, Oosterbaan_50, Bishoperium_49, TomBombadil_50, Mcshane_49, Craff_51, Anderson_50, Sigman_51, Durga_51, Badfish_51, Matalotodo_50, Banjo_49, Legolas_50, LemonSlice_50, Oline_49, ABU_51, Phareon_50, Hertubise_50, Swish_51, Zelda_50, PhrodoBaggins_50, Podrick_50, Cannibal_50, QueenBeane_50, Mosaic_49, Buckeye_50, Freya_49, Adriana_51, Sheila_50, Grand2040_49, Vaticameos_46, Samaymay_50, Scrick_50, Eremos_50, Basato_51, Swiphy_52, Katniss_51, Windsor_49, Schadenfreude_49, Chaelin_50, Coletti_49, Sophia_49, Lopsy_49, Orion_51, Scoot17C_51, Emiris_51, Nacho_0051, Brilliant_50, Charles1_50, Colbert_50, KingVeVeVe_50, Megamind20_50, PG1_51, Cobra_50, Mutante_49, RedMaple_50, Usavi_50, Omniscient_50, Murdoc_50, IsaacEli_51,

Mana_49, PhatCats2014_51, Iridoclysis_50, Lulwa_50, Cornobble_49, Olak_49, Held_50, Gyarad_0050, Puhltonio_50, Giraffe_50, Mecca_49, Longacauda_49, Roliet_50, Virgeve_49, Lego3393_49, Harvey_50, Thunderbird_49, Phamished_51, JacAttac_51, Pops_50, Toni_49, FluffyNinja_51, Chah_52, Vortex_50, Gwilliam_51, Yoshand_51, OliverWalter_50, Hocus_49, Plmatters_50, Weher20_50, Tomlarah_50, Antonia_49

- Track 2 : KlimbOn_50, HSavage_50, Newman_50, Manad_50, Inverness_50
- Track 3 : Crownjwl_50, AltPhacts_50, Chunky_50, EmpTee_50
- Track 4 : Soto_50, Wallhey_49, Doddsville_50, Zonia_50, SDcharge11_50, Struggle_49, Derpp_49, Labeouficaum_49, DuchessDung_49, DaddyDaniels_50, Dingo_50, Pinkman_49, GeneCoco_50, JakeO_49, Jiminy_49, Duggie_49, TyrionL_49
- Track 5 : Hamish_50, SilverBell_50
- Track 6 : Mesh1_50
- Track 7 : Imvubu_42
- Track 8 : Indlovu_47
- Track 9 : LilMcDreamy_47
- Track 10 : Zenteno07_54
- Track 11 : Hashim76_53
- Track 12 : BirdsNest_52
- Track 13 : Hedgerow_49, TA17A_49, Eaglehorse_49, Boyle_49, Arbiter_48, Ares_49, FrenchFry_49, Bananafish_49, Tres_49, Qyrzula_46, Sabella_48, Glass_49, Lephleur_49, Phantasmagoria_49, Kaleb_49, LizLemon_49, Faze9_48, West99_49, Lars_49, Opia_49, Rosebush_48
- Track 14 : Brownie5_49, Holeinone_49, MasterPo_49, ItsyBitsy1_49, Tinciduntolum_50, Allegro_49, Kheth_49, Calamitous_49, Coffee_49, Vic9_49, Laurie_48
- Track 15 : Rhinoforte_49, Blocker23_49, Godines_49
- Track 16 : Yahalom_48, Briakila_49
- Track 17 : Nozo_48, Pipefish_50, Phaedrus_46, Philly_47, Corofin_48, Heathcliff_48, Halfpint_47, Chandler_48, Devonte_48, Gadget_49, OrangeOswald_48, Kamiyu_48, Compostia_49, SynergyX_48, Baloo_48, Bernardo_49, Athena_49, Jackstina_45, Yinz_48, RagingRooster_48, Akoma_48, Audrey_48
- Track 18 : Daisy_48, Rita1961_48, Obutu_48, Gervas_48, Mortcellus_47, MmasiCarm_48, Phlyer_48, ChaChing_48, Ben11_47, Phayeta_49, Casbah_47, Neos5_48, SlippinJimmy_48, Kronus_47
- Track 19 : Morty007_48, Abingghost_48, LestyG_48, HarveySr_48, RomaT_48, Marley1013_48, Tydolla_48
- Track 20 : Deenasa_48
- Track 21 : GlenHope_49
- Track 22 : Prince_45, Fortunato_46, Apex_46, Hydro_45, Heath_44, VioletZ_47, Fanaw_44, BobbyK_46, Magpie_44, Austelle_46, Lolalove_46, Mudslide_45, RawrgerThat_46, Frederick_46
- Track 23 : Zemanar_46, Waleliano_45, BrownCNA_47, Hangman_45, Mithril_45
- Track 24 : JaguarMi_45, Xincheng_44
- Track 25 : Lambano_44, Epah_44, JAMaL_45, GinPorsche_44, Hally898_44, Antihero_44, Nanao_44, Ahwei_44, QueenPie_44, Poster_44
- Track 26 : AlanGrant_47, Vincenzo_46
- Track 27 : ChrisnMich_45
- Track 28 : Nigel_44
- Track 29 : Stinger_44
- Track 30 : Cooper_46

- Track 31 : StinkyVeggy_50, KarasumaRum_50
- Track 32 : EastView9101_48
- Track 33 : Mysterious_50, Nehemiah_49, Reprobate_49, Phelemich_48
- Track 34 : Bae_49, Rich_48
- Track 35 : DigitDog_49, Nangang_49, Shenyu_49
- Track 36 : Acadian_50, SirJeffery_49
- Track 37 : Serendipitous_49
- Track 38 : Suigeneris_50, Donny_50
- Track 39 : 39HC_043, 40BC_043, Hosp_041
- Track 40 : KayaCho_43
- Track 41 : Jolie1_043
- Track 42 : Saguaro_51
- Track 43 : Thonko_48
- Track 44 : Knocker_51
- Track 45 : Quesadilla_51
- Track 46 : PenguinLover67_51
- Track 47 : Rinkes_50
- Track 48 : CRB2_51
- Track 49 : Funsized_53
- Track 50 : Trine_28
- Track 51 : Widow_29, Puppies_29
- Track 52 : Morrissey_30
- Track 53 : Mahdia_29
- Track 54 : Gustav_29
- Track 55 : MossRose_46, AnarQue_46, CloverMinnie_46, MakoManhole_46, Wooper_46, CaiB_46
- Track 56 : Coldpizza_45
- Track 57 : Sour_48
- Track 58 : Evaa_43
- Track 59 : NHagos_44
- Track 60 : Sisko_43, AnClar_44, Yago84_43
- Track 61 : Ligma_43, Fresco_43, Shatter_43, Axumite_43
- Track 62 : Mariokart_43
- Track 63 : LittleMunchkin_45
- Track 64 : BiggityBass_43
- Track 65 : CharlottesWeb_43
- Track 66 : BobRoss2024_42
- Track 67 : EmiRose_29
- Track 68 : StAugustine_67
- Track 69 : Pine5_41
- Track 70 : TPA2_56

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

The start number called the most often in the published annotations is 21, it was called in 310 of the 414 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABU_51, AbsoluteMadLad_49, Acadian_50, Adriana_51, Aelin_49, Ahwei_44, AlanGrant_47, AltPhacts_50, Altwerkus_49, Anderson_50, Andre_51, Antihero_44,

Antonia_49, Apex_46, Apizium_50, Ashraf_50, Austelle_46, Badfish_51, Bae_49, Banjo_49, Basato_51, BatteryCK_49, Beaglebox_49, BirdsNest_52, Bishoperium_49, BlackStallion_51, BlueHusk_50, Bluephacebaby_49, BobbyK_46, Boehler_50, Brilliant_50, BrownCNA_47, Buckeye_50, Burr_49, CRB2_51, CamL_50, CampRoach_51, Cannibal_50, Carthage_48, Chaelin_50, Chah_52, Charles1_50, CharlieGBrown_49, CheetO_50, Cher_49, Childish_49, Chorkpop_50, ChrisnMich_45, Chunky_50, Chute_49, Cobra_50, Colbert_50, Coletti_49, Cooper_46, Cornobble_49, Cosmolli16_49, Craff_51, Crownjwl_50, DaddyDaniels_50, Daffy_50, Daka_51, Dati_50, DelRivs_49, Derpp_49, Dice_49, DigitDog_49, Dingo_50, Dione_49, DirtJuice_50, Doddsville_50, DoesntMatter_49, DonSanchon_49, Donny_50, DuchessDung_49, Duggie_49, Durga_51, EastView9101_48, Emiris_51, EmpTee_50, Epah_44, Eremos_50, Etaye_50, Eugenia_50, Fanaw_44, Fang_51, FluffyNinja_51, Fortunato_46, Fozzie_49, Frankicide_50, Frederick_46, Freya_49, FriarPreacher_49, Fringe_51, FugateOSU_49, Funsized_53, Gareth_49, GeneCoco_50, GinPorsche_44, Giraffe_50, Gophe_50, Grand2040_49, Gwilliam_51, Gyarad_0050, HSavage_50, Haimas_50, Haleema_49, Hally898_44, Hamish_50, Hangman_45, Hartsy_50, Harvey_50, Hashim76_53, Heath_44, Held_50, HenryJackson_49, Hertubise_50, Hetaeria_50, HighStump_50, Hocus_49, Horchata_50, Hydro_45, ImtiyazSitla_50, Imvubu_42, Inchworm_51, Indlovu_47, Inverness_50, Iridoclysis_50, IsaacEli_51, JAMaL_45, JDog_49, JacAttac_51, JaguarMi_45, JakeO_49, JangoPhett_50, Jillium_49, Jiminy_49, Jiraiya_52, KLucky39_50, Kahve_49, Kailash_50, KarasumaRum_50, Katniss_51, Keitherie_50, Kikipoo_51, Kimbrough_50, KingTut_41, KingVeVeVe_50, KlimbOn_50, Kloppinator_51, Knocker_51, Kwadwo_49, Kwksand96_49, Labeouficaum_49, Lambano_44, LasagnaCat_51, Lasso_50, LeeLot_50, Lego3393_49, Legolas_50, LeiMonet_51, LemonSlice_50, LilMcDreamy_47, Lolalove_46, Longacauda_49, Lopsy_49, LostAndPhound_49, LuckyMarjie_49, Lulumae_49, Lulwa_50, Lumine_49, MRabcd_49, Mag7_49, Magic8_50, Magpie_44, Mana_49, Manad_50, Maru_49, Maskar_50, Matalotodo_50, Mcshane_49, Mecca_49, Megamind20_50, Megatron_51, Melc17_50, MelsMeow_50, Mesh1_50, MichaelPhcott_49, Mikota_50, MiniBoss_50, MitKao_50, Mithril_45, Morgushi_50, Morty_51, Mosaic_49, MrPhizzler_49, Mudslide_45, Mulan_50, Murdoc_50, Mutante_49, Mysterious_50, Nacho_0051, Nanao_44, Nangang_49, Nehemiah_49, Newman_50, Nicole21_50, Nigel_44, Numberten_50, Nyala_49, OSmaximus_51, Olak_49, Oline_49, Olive_50, OliverWalter_50, Omniscient_50, Oosterbaan_50, Orfeu_49, Orion_51, Orwigg_51, PG1_51, Pacifista_49, PenguinLover67_51, Phamished_51, Phareon_50, PhatCats2014_51, PhatLouie_50, Phelemich_48, PhenghisKhan_49, Pherdinand_51, Phergie_50, Phipps_50, Phleuron_49, PhrankReynolds_48, PhrodoBaggins_50, Phunky_50, Piglet_0050, PinheadLarry_50, Pinkman_49, Pipsqueak_50, Placalicious_49, Plmatters_50, Podrick_50, Pops_50, Poster_44, Potter_49, Prickles_50, Prince_45, ProfessorX_50, Puhltonio_50, QueenBeane_50, QueenPie_44, Quesadilla_51, Quisquilliae_50, RawrgerThat_46, RedMaple_50, Reprobate_49, Rich_48, Ricotta_49, Riggan_50, Rimu_52, Rinkes_50, Robyn_49, Roliet_50, Roscoe_51, Roy17_50, SDcharge11_50, Saguario_51, Samaymay_50, SassyCat97_49, Schadenfreude_49, Schueller_50, Scoot17C_51, Scrick_50, Selr12_50, Serendipitous_49, Serendipity_50, Serpentine_0050, Sheila_50, Shenyu_49, ShiVal_50, Sigman_51, SilverBell_50, Simielle_49, SirJeffery_49, Skippy_50, Slatt_50, Soile_50, Solosis_49, Sophia_49, Soto_50, Spartan300_50, Squid_50, Squiggle_50, Stinger_44, StinkyVeggy_50, Struggle_49, Suffolk_50, Suigeneris_50, Surely_50, Swiphy_52, Swish_51, TallGrassMM_50, Telesworld_49, Thonko_48, Thora_50, ThreeOh3D2_51, Thunderbird_49, Timmi_49, TomBombadil_50, Tomlarah_50, Toni_49, Tooj_50, True_49, Trypo_51, TyrionL_49, UAch1_50,

UncleHowie_50, Usavi_50, Vaishali24_49, Valjean_50, Vaticameos_46, Veritas_49, Vincenzo_46, VioletZ_47, Virapocalypse_50, Virgeve_49, Vista_50, Vivaldi_51, Vortex_50, Waleliano_45, Wallhey_49, Waterdiva_50, Weher20_50, Windsor_49, Xavier_49, Xincheng_44, Yoshand_51, YouGoGlencoco_50, Zaider_51, Zelda_50, Zemanar_46, Zenteno07_54, Zonia_50,

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

-

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

- 39HC_043, 40BC_043, Abingghost_48, Akoma_48, Allegro_49, AnClar_44, AnarQue_46, Arbiter_48, Ares_49, Athena_49, Audrey_48, Axumite_43, Baloo_48, Bananafish_49, Ben11_47, Bernardo_49, BiggityBass_43, Blocker23_49, BobRoss2024_42, Boyle_49, Briakila_49, Brownie5_49, CaiB_46, Calamitous_49, Casbah_47, ChaChing_48, Chandler_48, CharlottesWeb_43, CloverMinnie_46, Coffee_49, Coldpizza_45, Compostia_49, Corofin_48, Daisy_48, Deenasa_48, Devonte_48, Eaglehorse_49, EmiRose_29, Evaa_43, Faze9_48, FrenchFry_49, Fresco_43, Gadget_49, Gervas_48, Glass_49, GlenHope_49, Godines_49, Gustav_29, Halfpint_47, HarveySr_48, Heathcliff_48, Hedgerow_49, Holeinone_49, Hosp_041, ItsyBitsy1_49, Jackstina_45, Jolie1_043, Kaleb_49, Kamiyu_48, KayaCho_43, Kheth_49, Kronus_47, Lars_49, Laurie_48, Lephleur_49, LestyG_48, Ligma_43, LittleMunchkin_45, LizLemon_49, Mahdia_29, MakoManhole_46, Mariokart_43, Marley1013_48, MasterPo_49, MmasiCarm_48, Morrissey_30, Mortcellus_47, Morty007_48, MossRose_46, NHagos_44, Neos5_48, Nozo_48, Obutu_48, Opia_49, OrangeOswald_48, Phaedrus_46, Phantasmagoria_49, Phayeta_49, Philly_47, Phlyer_48, Pine5_41, Pipefish_50, Puppies_29, Qyrzula_46, RagingRooster_48, Rhinoforte_49, Rita1961_48, RomaT_48, Rosebush_48, Sabella_48, Shatter_43, Sisko_43, SlippinJimmy_48, Sour_48, StAugustine_67, SynergyX_48, TA17A_49, TPA2_56, Tinciduntolum_50, Tres_49, Trine_28, Tydolla_48, Vic9_49, West99_49, Widow_29, Wooper_46, Yago84_43, Yahalom_48, Yinz_48,

Summary by start number:

Start 21:

- Found in 343 of 462 (74.2%) of genes in pham
- Manual Annotations of this start: 310 of 414
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ABU_51 (B1), AbsoluteMadLad_49 (B1), Acadian_50 (B5), Adriana_51 (B1), Aelin_49 (B1), Ahwei_44 (B4), AlanGrant_47 (B4), AltPhacts_50 (B1), Altwerkus_49 (B1), Anderson_50 (B1), Andre_51 (B1), Antihero_44 (B4), Antonia_49 (B1), Apex_46 (B4), Apizium_50 (B1), Ashraf_50 (B1), Austelle_46 (B4), Badfish_51 (B1), Bae_49 (B5), Banjo_49 (B1), Basato_51 (B1), BatteryCK_49 (B1), Beaglebox_49 (B1), BirdsNest_52 (B13), Bishoperium_49 (B1), BlackStallion_51 (B1), BlueHusk_50 (B1), Bluephacebaby_49 (B1), BobbyK_46 (B4), Boehler_50 (B1), Brilliant_50 (B1), BrownCNA_47 (B4), Buckeye_50 (B1), Burr_49 (B1), CRB2_51 (B9), CamL_50 (B1), CampRoach_51 (B1), Cannibal_50 (B1), Carthage_48 (B1), Chaelin_50 (B1), Chah_52 (B1), Charles1_50 (B1), CharlieGBrown_49 (B1), CheetO_50 (B1), Cher_49 (B1), Childish_49 (B1), Chorkpop_50 (B1), ChrisnMich_45 (B4), Chunky_50 (B1), Chute_49 (B1), Cobra_50 (B1), Colbert_50 (B1), Coletti_49 (B1), Cooper_46 (B4), Cornobble_49 (B1), Cosmolli16_49 (B1), Craff_51 (B1), Crownjwl_50 (B1), DaddyDaniels_50 (B1), Daffy_50 (B1), Daka_51 (B1), Dati_50 (B1), DelRivs_49 (B1),

Derpp_49 (B1), Dice_49 (B1), DigitDog_49 (B5), Dingo_50 (B1), Dione_49 (B1), DirtJuice_50 (B1), Doddsville_50 (B1), DoesntMatter_49 (B1), DonSanchon_49 (B1), Donny_50 (B5), DuchessDung_49 (B1), Duggie_49 (B1), Durga_51 (B1), EastView9101_48 (B5), Emiris_51 (B1), EmpTee_50 (B1), Epah_44 (B4), Eremos_50 (B1), Etaye_50 (B1), Eugenia_50 (B1), Fanaw_44 (B4), Fang_51 (B1), FluffyNinja_51 (B1), Fortunato_46 (B4), Fozzie_49 (B1), Frankicide_50 (B1), Frederick_46 (B4), Freya_49 (B1), FriarPreacher_49 (B1), Fringe_51 (B1), FugateOSU_49 (B1), Funsized_53 (B9), Gareth_49 (B1), GeneCoco_50 (B1), GinPorsche_44 (B4), Giraffe_50 (B1), Gophee_50 (B1), Grand2040_49 (B1), Gwilliam_51 (B1), Gyarad_0050 (B1), HSavage_50 (B1), Haimas_50 (B1), Haleema_49 (B1), Hally898_44 (B4), Hamish_50 (B1), Hangman_45 (B4), Hartsy_50 (B1), Harvey_50 (B1), Hashim76_53 (B13), Heath_44 (B4), Held_50 (B1), HenryJackson_49 (B1), Hertubise_50 (B1), Hetaeria_50 (B1), HighStump_50 (B1), Hocus_49 (B1), Horchata_50 (B1), Hydro_45 (B4), ImtiyazSitla_50 (B1), Imvubu_42 (B10), Inchworm_51 (B1), Indlovu_47 (B11), Inverness_50 (B1), Iridoclysis_50 (B1), IsaacEli_51 (B1), JAMaL_45 (B4), JDog_49 (B1), JacAttac_51 (B1), JaguarMi_45 (B4), JakeO_49 (B1), JangoPhett_50 (B1), Jillium_49 (B1), Jiminy_49 (B1), Jiraiya_52 (B1), KLucky39_50 (B1), Kahve_49 (B1), Kailash_50 (B1), KarasumaRum_50 (B5), Katniss_51 (B1), Keitherie_50 (B1), Kikipoo_51 (B1), Kimbrough_50 (B1), KingTut_41 (B1), KingVeVeVe_50 (B1), KlimbOn_50 (B1), Kloppinator_51 (B1), Knocker_51 (B9), Kwadwo_49 (B1), Kwksand96_49 (B1), Labeouficaum_49 (B1), Lambano_44 (B4), LasagnaCat_51 (B1), Lasso_50 (B1), LeeLot_50 (B1), Lego3393_49 (B1), Legolas_50 (B1), LeiMonet_51 (B1), LemonSlice_50 (B1), LilMcDreamy_47 (B12), Lolalove_46 (B4), Longacauda_49 (B1), Lopsy_49 (B1), LostAndPhound_49 (B1), LuckyMarjie_49 (B1), Lulumae_49 (B1), Lulwa_50 (B1), Lumine_49 (B1), MRabcd_49 (B1), Mag7_49 (B1), Magic8_50 (B1), Magpie_44 (B4), Mana_49 (B1), Manad_50 (B1), Maru_49 (B1), Maskar_50 (B1), Matalotodo_50 (B1), Mcshane_49 (B1), Mecca_49 (B1), Megamind20_50 (B1), Megatron_51 (B1), Melc17_50 (B1), MelsMeow_50 (B1), Mesh1_50 (B1), MichaelPhcott_49 (B1), Mikota_50 (B1), MiniBoss_50 (B1), MitKao_50 (B1), Mithril_45 (B4), Morgushi_50 (B1), Morty_51 (B1), Mosaic_49 (B1), MrPhizzler_49 (B1), Mudslide_45 (B4), Mulan_50 (B1), Murdoc_50 (B1), Mutante_49 (B1), Mysterious_50 (B5), Nacho_0051 (B1), Nanao_44 (B4), Nangang_49 (B5), Nehemiah_49 (B5), Newman_50 (B1), Nicole21_50 (B1), Nigel_44 (B4), Numberten_50 (B1), Nyala_49 (B1), OSmaximus_51 (B1), Olak_49 (B1), Oline_49 (B1), Olive_50 (B1), OliverWalter_50 (B1), Omniscient_50 (B1), Oosterbaan_50 (B1), Orfeu_49 (B1), Orion_51 (B1), Orwigg_51 (B1), PG1_51 (B1), Pacifista_49 (B1), PenguinLover67_51 (B9), Phamished_51 (B1), Phareon_50 (B1), PhatCats2014_51 (B1), PhatLouie_50 (B1), Phelemich_48 (B5), PhenghisKhan_49 (B1), Pherdinand_51 (B1), Phergie_50 (B1), Phipps_50 (B1), Phleuron_49 (B1), PhrankReynolds_48 (B1), PhrodoBaggins_50 (B1), Phunky_50 (B1), Piglet_0050 (B1), PinheadLarry_50 (B1), Pinkman_49 (B1), Pipsqueak_50 (B1), Placalicious_49 (B1), Plmatters_50 (B1), Podrick_50 (B1), Pops_50 (B1), Poster_44 (B4), Potter_49 (B1), Prickles_50 (B1), Prince_45 (B4), ProfessorX_50 (B1), Puhltonio_50 (B1), QueenBeane_50 (B1), QueenPie_44 (B4), Quesadilla_51 (B9), Quisquilliae_50 (B1), RawrgerThat_46 (B4), RedMaple_50 (B1), Reprobate_49 (B5), Rich_48 (B5), Ricotta_49 (B1), Riggan_50 (B1), Rimu_52 (B1), Rinkes_50 (B9), Robyn_49 (B1), Roliet_50 (B1), Roscoe_51 (B1), Roy17_50 (B1), SDcharge11_50 (B1), Saguario_51 (B7), Samaymay_50 (B1), SassyCat97_49 (B1), Schadenfreude_49 (B1), Schueller_50 (B1), Scoot17C_51 (B1), Scrick_50 (B1), Selr12_50 (B1), Serendipitous_49 (B5), Serendipity_50 (B1), Serpentine_0050 (B1), Sheila_50 (B1), Shenyu_49 (B5), ShiVal_50 (B1), Sigman_51 (B1), SilverBell_50 (B1), Simielle_49 (B1), SirJeffery_49 (B5), Skippy_50 (B1), Slatt_50 (B1), Soile_50 (B1), Solosis_49

(B1), Sophia_49 (B1), Soto_50 (B1), Spartan300_50 (B1), Squid_50 (B1), Squiggle_50 (B1), Stinger_44 (B4), StinkyVeggy_50 (B5), Struggle_49 (B1), Suffolk_50 (B1), Suigeneris_50 (B5), Surely_50 (B1), Swiphy_52 (B1), Swish_51 (B1), TallGrassMM_50 (B1), Telesworld_49 (B1), Thonko_48 (B8), Thora_50 (B1), ThreeOh3D2_51 (B1), Thunderbird_49 (B1), Timmi_49 (B1), TomBombadil_50 (B1), Tomlarah_50 (B1), Toni_49 (B1), Tooj_50 (B1), True_49 (B1), Trypo_51 (B1), TyrionL_49 (B1), UAch1_50 (B1), UncleHowie_50 (B1), Usavi_50 (B1), Vaishali24_49 (B1), Valjean_50 (B1), Vaticameos_46 (B1), Veritas_49 (B1), Vincenzo_46 (B4), VioletZ_47 (B4), Virapocalypse_50 (B1), Virgeve_49 (B1), Vista_50 (B1), Vivaldi_51 (B1), Vortex_50 (B1), Waleliano_45 (B4), Wallhey_49 (B1), Waterdiva_50 (B1), Weher20_50 (B1), Windsor_49 (B1), Xavier_49 (B1), Xincheng_44 (B4), Yoshand_51 (B1), YouGoGlencoco_50 (B1), Zaider_51 (B1), Zelda_50 (B1), Zemanar_46 (B4), Zenteno07_54 (B13), Zonia_50 (B1),

Start 22:

- Found in 5 of 462 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 414
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC_043 (B6), 40BC_043 (B6), Hosp_041 (B6), Jolie1_043 (B6), KayaCho_43 (B6),

Start 25:

- Found in 5 of 462 (1.1%) of genes in pham
- Manual Annotations of this start: 5 of 414
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gustav_29 (CD), Mahdia_29 (CD), Morrissey_30 (CD), Puppies_29 (CD), Widow_29 (CD),

Start 26:

- Found in 49 of 462 (10.6%) of genes in pham
- Manual Annotations of this start: 46 of 414
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abinghost_48 (B3), Akoma_48 (B3), Athena_49 (B3), Audrey_48 (B3), Baloo_48 (B3), Ben11_47 (B3), Bernardo_49 (B3), Briakila_49 (B3), Casbah_47 (B3), ChaChing_48 (B3), Chandler_48 (B3), Coldpizza_45 (DR), Compostia_49 (B3), Corofin_48 (B3), Daisy_48 (B3), Deenasa_48 (B3), Devonte_48 (B3), Evaa_43 (DR), Gadget_49 (B3), Gervas_48 (B3), GlenHope_49 (B3), Halfpint_47 (B3), HarveySr_48 (B3), Heathcliff_48 (B3), Jackstina_45 (B3), Kamiyu_48 (B3), Kronus_47 (B3), LestyG_48 (B3), Marley1013_48 (B3), MmasiCarm_48 (B3), Mortcellus_47 (B3), Morty007_48 (B3), Neos5_48 (B3), Nozo_48 (B3), Obutu_48 (B3), OrangeOswald_48 (B3), Phaedrus_46 (B3), Phayeta_49 (B3), Philly_47 (B3), Phlyer_48 (B3), Pipefish_50 (B3), RagingRooster_48 (B3), Rita1961_48 (B3), RomaT_48 (B3), SlippinJimmy_48 (B3), SynergyX_48 (B3), Tydolla_48 (B3), Yahalom_48 (B3), Yinz_48 (B3),

Start 27:

- Found in 1 of 462 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pine5_41 (singleton),

Start 30:

- Found in 1 of 462 (0.2%) of genes in pham

- Manual Annotations of this start: 1 of 414
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sour_48 (DR),

Start 32:

- Found in 57 of 462 (12.3%) of genes in pham
- Manual Annotations of this start: 50 of 414
- Called 98.2% of time when present
- Phage (with cluster) where this start called: Allegro_49 (B2), AnClar_44 (DR), AnarQue_46 (DR), Arbiter_48 (B2), Ares_49 (B2), Axumite_43 (DR), Bananafish_49 (B2), BiggityBass_43 (DR), Blocker23_49 (B2), BobRoss2024_42 (DR), Boyle_49 (B2), Brownie5_49 (B2), CaiB_46 (DR), Calamitous_49 (B2), CharlottesWeb_43 (DR), CloverMinnie_46 (DR), Coffee_49 (B2), Eaglehorse_49 (B2), EmiRose_29 (singleton), Faze9_48 (B2), FrenchFry_49 (B2), Fresco_43 (DR), Glass_49 (B2), Godines_49 (B2), Hedgerow_49 (B2), Holeinone_49 (B2), ItsyBitsy1_49 (B2), Kaleb_49 (B2), Kheth_49 (B2), Lars_49 (B2), Laurie_48 (B2), Lephleur_49 (B2), Ligma_43 (DR), LittleMunchkin_45 (DR), LizLemon_49 (B2), MakoManhole_46 (DR), Mariokart_43 (DR), MasterPo_49 (B2), MossRose_46 (DR), NHagos_44 (DR), Opia_49 (B2), Phantasmagoria_49 (B2), Qyrzula_46 (B2), Rhinoforte_49 (B2), Rosebush_48 (B2), Sabella_48 (B2), Shatter_43 (DR), Sisko_43 (DR), TA17A_49 (B2), TPA2_56 (singleton), Tinciduntolum_50 (B2), Tres_49 (B2), Vic9_49 (B2), West99_49 (B2), Wooper_46 (DR), Yago84_43 (DR),

Start 33:

- Found in 2 of 462 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: StAugustine_67 (singleton),

Start 38:

- Found in 1 of 462 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 414
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trine_28 (CD),

Summary by clusters:

There are 16 clusters represented in this pham: singleton, B10, B8, B3, CD, B4, B5, B6, B7, B12, B1, B2, B11, DR, B9, B13,

Info for manual annotations of cluster B1:

- Start number 21 was manually annotated 263 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 21 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 21 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 21 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 21 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 32 was manually annotated 32 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 26 was manually annotated 45 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 21 was manually annotated 25 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 21 was manually annotated 9 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 22 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:

- Start number 21 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 21 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 21 was manually annotated 6 times for cluster B9.

Info for manual annotations of cluster CD:

- Start number 25 was manually annotated 5 times for cluster CD.
- Start number 38 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DR:

- Start number 26 was manually annotated 1 time for cluster DR.
- Start number 30 was manually annotated 1 time for cluster DR.
- Start number 32 was manually annotated 17 times for cluster DR.

Gene Information:

Gene: 39HC_043 Start: 42090, Stop: 41461, Start Num: 22

Candidate Starts for 39HC_043:

(11, 42204), (Start: 22 @42090 has 1 MA's), (51, 41889), (52, 41886), (54, 41880), (58, 41856), (73, 41784),

Gene: 40BC_043 Start: 42090, Stop: 41461, Start Num: 22

Candidate Starts for 40BC_043:

(11, 42204), (Start: 22 @42090 has 1 MA's), (51, 41889), (52, 41886), (54, 41880), (58, 41856), (73, 41784),

Gene: ABU_51 Start: 43912, Stop: 43292, Start Num: 21

Candidate Starts for ABU_51:

(Start: 21 @43912 has 310 MA's), (34, 43816), (51, 43714), (52, 43711), (54, 43705), (58, 43681), (61, 43672), (66, 43639), (73, 43612), (99, 43480), (100, 43477), (108, 43417),

Gene: Abinghost_48 Start: 43205, Stop: 42660, Start Num: 26

Candidate Starts for Abinghost_48:

(Start: 26 @43205 has 46 MA's), (55, 43055), (74, 42968), (75, 42953), (77, 42941), (87, 42911), (92, 42890), (98, 42851), (100, 42845), (101, 42836), (105, 42809),

Gene: AbsoluteMadLad_49 Start: 43789, Stop: 43169, Start Num: 21

Candidate Starts for AbsoluteMadLad_49:

(Start: 21 @43789 has 310 MA's), (34, 43693), (51, 43591), (52, 43588), (54, 43582), (58, 43558), (61, 43549), (66, 43516), (73, 43489), (99, 43357), (100, 43354), (108, 43294),

Gene: Acadian_50 Start: 44698, Stop: 44096, Start Num: 21

Candidate Starts for Acadian_50:

(Start: 21 @44698 has 310 MA's), (35, 44578), (52, 44470), (54, 44464), (58, 44440), (105, 44242), (108, 44218), (116, 44161),

Gene: Adriana_51 Start: 43910, Stop: 43290, Start Num: 21

Candidate Starts for Adriana_51:

(Start: 21 @43910 has 310 MA's), (34, 43814), (51, 43712), (52, 43709), (54, 43703), (58, 43679), (61, 43670), (66, 43637), (73, 43610), (99, 43478), (100, 43475), (108, 43415),

Gene: Aelin_49 Start: 43353, Stop: 42733, Start Num: 21

Candidate Starts for Aelin_49:

(Start: 21 @43353 has 310 MA's), (34, 43257), (51, 43155), (52, 43152), (54, 43146), (58, 43122), (61, 43113), (66, 43080), (73, 43053), (99, 42921), (100, 42918), (108, 42858),

Gene: Ahwei_44 Start: 43292, Stop: 42684, Start Num: 21

Candidate Starts for Ahwei_44:

(Start: 21 @43292 has 310 MA's), (34, 43202), (54, 43088), (58, 43064), (62, 43052), (71, 43001), (90, 42914), (95, 42890), (98, 42869), (99, 42866), (112, 42788),

Gene: Akoma_48 Start: 43216, Stop: 42671, Start Num: 26

Candidate Starts for Akoma_48:

(Start: 26 @43216 has 46 MA's), (47, 43087), (55, 43066), (74, 42979), (75, 42964), (77, 42952), (87, 42922), (92, 42901), (98, 42862), (100, 42856), (101, 42847), (105, 42820),

Gene: AlanGrant_47 Start: 44903, Stop: 44286, Start Num: 21

Candidate Starts for AlanGrant_47:

(Start: 21 @44903 has 310 MA's), (34, 44801), (35, 44792), (46, 44714), (52, 44693), (54, 44687), (58, 44663), (73, 44594), (76, 44570), (77, 44564), (79, 44558), (83, 44540), (92, 44507), (95, 44489), (99, 44465), (100, 44462), (104, 44444), (112, 44387),

Gene: Allegro_49 Start: 43473, Stop: 42961, Start Num: 32

Candidate Starts for Allegro_49:

(23, 43563), (Start: 32 @43473 has 50 MA's), (77, 43245), (87, 43215), (88, 43212), (90, 43200), (92, 43194), (98, 43155), (100, 43149), (103, 43134), (120, 43002),

Gene: AltPhacts_50 Start: 43762, Stop: 43142, Start Num: 21

Candidate Starts for AltPhacts_50:

(Start: 21 @43762 has 310 MA's), (34, 43666), (37, 43639), (51, 43564), (52, 43561), (54, 43555), (58, 43531), (61, 43522), (66, 43489), (73, 43462), (81, 43420), (99, 43330), (100, 43327), (108, 43267),

Gene: Altwerkus_49 Start: 43468, Stop: 42848, Start Num: 21

Candidate Starts for Altwerkus_49:

(Start: 21 @43468 has 310 MA's), (34, 43372), (51, 43270), (52, 43267), (54, 43261), (58, 43237), (61, 43228), (66, 43195), (73, 43168), (99, 43036), (100, 43033), (108, 42973),

Gene: AnClar_44 Start: 39415, Stop: 38918, Start Num: 32

Candidate Starts for AnClar_44:

(Start: 32 @39415 has 50 MA's), (69, 39232), (72, 39220), (75, 39199), (77, 39187), (98, 39097), (100, 39091), (105, 39055), (107, 39034), (113, 39013),

Gene: AnarQue_46 Start: 38876, Stop: 38382, Start Num: 32

Candidate Starts for AnarQue_46:

(Start: 32 @38876 has 50 MA's), (50, 38777), (60, 38735), (69, 38696), (72, 38684), (75, 38663), (77, 38651), (87, 38615), (93, 38591), (98, 38555), (100, 38549), (108, 38486), (113, 38468),

Gene: Anderson_50 Start: 43767, Stop: 43147, Start Num: 21

Candidate Starts for Anderson_50:

(Start: 21 @43767 has 310 MA's), (34, 43671), (51, 43569), (52, 43566), (54, 43560), (58, 43536), (61, 43527), (66, 43494), (73, 43467), (99, 43335), (100, 43332), (108, 43272),

Gene: Andre_51 Start: 43904, Stop: 43284, Start Num: 21

Candidate Starts for Andre_51:

(Start: 21 @43904 has 310 MA's), (34, 43808), (51, 43706), (52, 43703), (54, 43697), (58, 43673), (61, 43664), (66, 43631), (73, 43604), (99, 43472), (100, 43469), (108, 43409),

Gene: Antihero_44 Start: 43292, Stop: 42684, Start Num: 21

Candidate Starts for Antihero_44:

(Start: 21 @43292 has 310 MA's), (34, 43202), (54, 43088), (58, 43064), (62, 43052), (71, 43001), (90, 42914), (95, 42890), (98, 42869), (99, 42866), (112, 42788),

Gene: Antonia_49 Start: 43353, Stop: 42733, Start Num: 21

Candidate Starts for Antonia_49:

(Start: 21 @43353 has 310 MA's), (34, 43257), (51, 43155), (52, 43152), (54, 43146), (58, 43122), (61, 43113), (66, 43080), (73, 43053), (99, 42921), (100, 42918), (108, 42858),

Gene: Apex_46 Start: 44536, Stop: 43922, Start Num: 21

Candidate Starts for Apex_46:

(Start: 21 @44536 has 310 MA's), (34, 44443), (54, 44329), (58, 44305), (62, 44293), (71, 44242), (90, 44155), (95, 44131), (98, 44110), (99, 44107), (111, 44032),

Gene: Apizium_50 Start: 43668, Stop: 43048, Start Num: 21

Candidate Starts for Apizium_50:

(Start: 21 @43668 has 310 MA's), (34, 43572), (51, 43470), (52, 43467), (54, 43461), (58, 43437), (61, 43428), (66, 43395), (73, 43368), (99, 43236), (100, 43233), (108, 43173),

Gene: Arbiter_48 Start: 43576, Stop: 43037, Start Num: 32

Candidate Starts for Arbiter_48:

(23, 43666), (Start: 32 @43576 has 50 MA's), (77, 43321), (87, 43291), (88, 43288), (90, 43276), (92, 43270), (98, 43231), (100, 43225), (103, 43210), (120, 43078), (125, 43057),

Gene: Ares_49 Start: 43545, Stop: 43021, Start Num: 32

Candidate Starts for Ares_49:

(23, 43635), (Start: 32 @43545 has 50 MA's), (77, 43305), (87, 43275), (88, 43272), (90, 43260), (92, 43254), (98, 43215), (100, 43209), (103, 43194), (120, 43062), (125, 43041),

Gene: Ashraf_50 Start: 43469, Stop: 42849, Start Num: 21

Candidate Starts for Ashraf_50:

(Start: 21 @43469 has 310 MA's), (34, 43373), (51, 43271), (52, 43268), (54, 43262), (58, 43238), (61, 43229), (66, 43196), (73, 43169), (99, 43037), (100, 43034), (108, 42974),

Gene: Athena_49 Start: 43963, Stop: 43418, Start Num: 26

Candidate Starts for Athena_49:

(Start: 26 @43963 has 46 MA's), (47, 43834), (55, 43813), (74, 43726), (75, 43711), (77, 43699), (87, 43669), (92, 43648), (98, 43609), (100, 43603), (101, 43594), (105, 43567),

Gene: Audrey_48 Start: 43211, Stop: 42666, Start Num: 26

Candidate Starts for Audrey_48:

(Start: 26 @43211 has 46 MA's), (47, 43082), (55, 43061), (74, 42974), (75, 42959), (77, 42947), (87, 42917), (92, 42896), (98, 42857), (100, 42851), (101, 42842), (105, 42815),

Gene: Austelle_46 Start: 44986, Stop: 44372, Start Num: 21

Candidate Starts for Austelle_46:

(Start: 21 @44986 has 310 MA's), (34, 44893), (54, 44779), (58, 44755), (62, 44743), (71, 44692), (90, 44605), (95, 44581), (98, 44560), (99, 44557), (111, 44482),

Gene: Axumite_43 Start: 36579, Stop: 36085, Start Num: 32

Candidate Starts for Axumite_43:

(Start: 32 @36579 has 50 MA's), (77, 36354), (96, 36276), (98, 36264), (105, 36222), (113, 36180), (124, 36099),

Gene: Badfish_51 Start: 43935, Stop: 43315, Start Num: 21

Candidate Starts for Badfish_51:

(Start: 21 @43935 has 310 MA's), (34, 43839), (51, 43737), (52, 43734), (54, 43728), (58, 43704), (61, 43695), (66, 43662), (73, 43635), (99, 43503), (100, 43500), (108, 43440),

Gene: Bae_49 Start: 44576, Stop: 43974, Start Num: 21

Candidate Starts for Bae_49:

(12, 44687), (Start: 21 @44576 has 310 MA's), (35, 44456), (52, 44348), (54, 44342), (58, 44318), (99, 44159), (105, 44120), (108, 44096), (114, 44045),

Gene: Baloo_48 Start: 43214, Stop: 42669, Start Num: 26

Candidate Starts for Baloo_48:

(Start: 26 @43214 has 46 MA's), (47, 43085), (55, 43064), (74, 42977), (75, 42962), (77, 42950), (87, 42920), (92, 42899), (98, 42860), (100, 42854), (101, 42845), (105, 42818),

Gene: Bananafish_49 Start: 43479, Stop: 42955, Start Num: 32

Candidate Starts for Bananafish_49:

(23, 43569), (Start: 32 @43479 has 50 MA's), (77, 43239), (87, 43209), (88, 43206), (90, 43194), (92, 43188), (98, 43149), (100, 43143), (103, 43128), (120, 42996), (125, 42975),

Gene: Banjo_49 Start: 43466, Stop: 42846, Start Num: 21

Candidate Starts for Banjo_49:

(Start: 21 @43466 has 310 MA's), (34, 43370), (51, 43268), (52, 43265), (54, 43259), (58, 43235), (61, 43226), (66, 43193), (73, 43166), (99, 43034), (100, 43031), (108, 42971),

Gene: Basato_51 Start: 44051, Stop: 43431, Start Num: 21

Candidate Starts for Basato_51:

(Start: 21 @44051 has 310 MA's), (34, 43955), (51, 43853), (52, 43850), (54, 43844), (58, 43820), (61, 43811), (66, 43778), (73, 43751), (99, 43619), (100, 43616), (108, 43556),

Gene: BatteryCK_49 Start: 43409, Stop: 42789, Start Num: 21

Candidate Starts for BatteryCK_49:

(Start: 21 @43409 has 310 MA's), (34, 43313), (51, 43211), (52, 43208), (54, 43202), (58, 43178), (61, 43169), (66, 43136), (73, 43109), (99, 42977), (100, 42974), (108, 42914),

Gene: Beaglebox_49 Start: 43487, Stop: 42867, Start Num: 21

Candidate Starts for Beaglebox_49:

(Start: 21 @43487 has 310 MA's), (34, 43391), (51, 43289), (52, 43286), (54, 43280), (58, 43256), (61, 43247), (66, 43214), (73, 43187), (99, 43055), (100, 43052), (108, 42992),

Gene: Ben11_47 Start: 43034, Stop: 42489, Start Num: 26

Candidate Starts for Ben11_47:

(Start: 26 @43034 has 46 MA's), (55, 42884), (74, 42797), (75, 42782), (77, 42770), (87, 42740), (92, 42719), (98, 42680), (100, 42674), (101, 42665), (105, 42638),

Gene: Bernardo_49 Start: 43760, Stop: 43215, Start Num: 26

Candidate Starts for Bernardo_49:

(Start: 26 @43760 has 46 MA's), (47, 43631), (55, 43610), (74, 43523), (75, 43508), (77, 43496), (87, 43466), (92, 43445), (98, 43406), (100, 43400), (101, 43391), (105, 43364),

Gene: BiggityBass_43 Start: 38887, Stop: 38390, Start Num: 32

Candidate Starts for BiggityBass_43:

(4, 39208), (20, 39031), (Start: 32 @38887 has 50 MA's), (53, 38779), (69, 38704), (71, 38695), (72, 38692), (77, 38659), (94, 38593), (96, 38581), (98, 38569), (105, 38527), (107, 38506), (113, 38485),

Gene: BirdsNest_52 Start: 43048, Stop: 42431, Start Num: 21

Candidate Starts for BirdsNest_52:

(Start: 21 @43048 has 310 MA's), (41, 42847), (48, 42820), (58, 42778), (95, 42640), (99, 42616), (108, 42553), (114, 42502),

Gene: Bishoperium_49 Start: 43481, Stop: 42861, Start Num: 21

Candidate Starts for Bishoperium_49:

(Start: 21 @43481 has 310 MA's), (34, 43385), (51, 43283), (52, 43280), (54, 43274), (58, 43250), (61, 43241), (66, 43208), (73, 43181), (99, 43049), (100, 43046), (108, 42986),

Gene: BlackStallion_51 Start: 43941, Stop: 43321, Start Num: 21

Candidate Starts for BlackStallion_51:

(Start: 21 @43941 has 310 MA's), (34, 43845), (51, 43743), (52, 43740), (54, 43734), (58, 43710), (61, 43701), (66, 43668), (73, 43641), (99, 43509), (100, 43506), (108, 43446),

Gene: Blocker23_49 Start: 43597, Stop: 43073, Start Num: 32

Candidate Starts for Blocker23_49:

(23, 43687), (Start: 32 @43597 has 50 MA's), (77, 43357), (87, 43327), (88, 43324), (90, 43312), (92, 43306), (98, 43267), (100, 43261), (120, 43114),

Gene: BlueHusk_50 Start: 43287, Stop: 42667, Start Num: 21

Candidate Starts for BlueHusk_50:

(Start: 21 @43287 has 310 MA's), (34, 43191), (51, 43089), (52, 43086), (54, 43080), (58, 43056), (61, 43047), (66, 43014), (73, 42987), (99, 42855), (100, 42852), (108, 42792),

Gene: Bluephacebaby_49 Start: 43484, Stop: 42864, Start Num: 21

Candidate Starts for Bluephacebaby_49:

(Start: 21 @43484 has 310 MA's), (34, 43388), (51, 43286), (52, 43283), (54, 43277), (58, 43253), (61, 43244), (66, 43211), (73, 43184), (99, 43052), (100, 43049), (108, 42989),

Gene: BobRoss2024_42 Start: 36607, Stop: 36095, Start Num: 32

Candidate Starts for BobRoss2024_42:

(Start: 32 @36607 has 50 MA's), (53, 36493), (63, 36439), (65, 36433), (75, 36388), (77, 36376), (79, 36373), (92, 36319), (96, 36292), (98, 36280), (105, 36238), (113, 36196), (120, 36133),

Gene: BobbyK_46 Start: 44328, Stop: 43717, Start Num: 21

Candidate Starts for BobbyK_46:

(Start: 21 @44328 has 310 MA's), (34, 44238), (54, 44124), (58, 44100), (62, 44088), (71, 44037), (90, 43950), (95, 43926), (98, 43905), (99, 43902), (111, 43827),

Gene: Boehler_50 Start: 43790, Stop: 43170, Start Num: 21

Candidate Starts for Boehler_50:

(Start: 21 @43790 has 310 MA's), (34, 43694), (51, 43592), (52, 43589), (54, 43583), (58, 43559), (61, 43550), (66, 43517), (73, 43490), (99, 43358), (100, 43355), (108, 43295),

Gene: Boyle_49 Start: 43612, Stop: 43073, Start Num: 32

Candidate Starts for Boyle_49:

(23, 43702), (Start: 32 @43612 has 50 MA's), (77, 43357), (87, 43327), (88, 43324), (90, 43312), (92, 43306), (98, 43267), (100, 43261), (103, 43246), (120, 43114), (125, 43093),

Gene: Briakila_49 Start: 43982, Stop: 43437, Start Num: 26

Candidate Starts for Briakila_49:

(Start: 26 @43982 has 46 MA's), (55, 43832), (74, 43745), (75, 43730), (77, 43718), (87, 43688), (92, 43667), (98, 43628), (100, 43622), (101, 43613), (105, 43586),

Gene: Brilliant_50 Start: 43483, Stop: 42863, Start Num: 21

Candidate Starts for Brilliant_50:

(Start: 21 @43483 has 310 MA's), (34, 43387), (51, 43285), (52, 43282), (54, 43276), (58, 43252), (61, 43243), (66, 43210), (73, 43183), (99, 43051), (100, 43048), (108, 42988),

Gene: BrownCNA_47 Start: 44607, Stop: 43996, Start Num: 21

Candidate Starts for BrownCNA_47:

(Start: 21 @44607 has 310 MA's), (34, 44517), (54, 44403), (58, 44379), (62, 44367), (71, 44316), (90, 44229), (95, 44205), (98, 44184), (99, 44181), (111, 44106), (112, 44103),

Gene: Brownie5_49 Start: 43628, Stop: 43089, Start Num: 32

Candidate Starts for Brownie5_49:

(23, 43718), (Start: 32 @43628 has 50 MA's), (77, 43373), (87, 43343), (88, 43340), (90, 43328), (92, 43322), (98, 43283), (100, 43277), (103, 43262), (120, 43130),

Gene: Buckeye_50 Start: 43804, Stop: 43184, Start Num: 21

Candidate Starts for Buckeye_50:

(Start: 21 @43804 has 310 MA's), (34, 43708), (51, 43606), (52, 43603), (54, 43597), (58, 43573), (61, 43564), (66, 43531), (73, 43504), (99, 43372), (100, 43369), (108, 43309),

Gene: Burr_49 Start: 43478, Stop: 42858, Start Num: 21

Candidate Starts for Burr_49:

(Start: 21 @43478 has 310 MA's), (34, 43382), (51, 43280), (52, 43277), (54, 43271), (58, 43247), (61, 43238), (66, 43205), (73, 43178), (99, 43046), (100, 43043), (108, 42983),

Gene: CRB2_51 Start: 46714, Stop: 46073, Start Num: 21

Candidate Starts for CRB2_51:

(Start: 21 @46714 has 310 MA's), (48, 46504), (54, 46486), (58, 46462), (73, 46390), (79, 46354), (85, 46327), (95, 46282), (98, 46261), (108, 46195), (114, 46144),

Gene: CaiB_46 Start: 38862, Stop: 38368, Start Num: 32

Candidate Starts for CaiB_46:

(Start: 32 @38862 has 50 MA's), (50, 38763), (60, 38721), (69, 38682), (72, 38670), (75, 38649), (77, 38637), (87, 38601), (93, 38577), (98, 38541), (100, 38535), (108, 38472), (113, 38454),

Gene: Calamitous_49 Start: 43478, Stop: 42960, Start Num: 32

Candidate Starts for Calamitous_49:

(23, 43568), (Start: 32 @43478 has 50 MA's), (77, 43244), (87, 43214), (88, 43211), (90, 43199), (92, 43193), (98, 43154), (100, 43148), (103, 43133), (120, 43001),

Gene: CamL_50 Start: 43773, Stop: 43153, Start Num: 21

Candidate Starts for CamL_50:

(Start: 21 @43773 has 310 MA's), (34, 43677), (51, 43575), (52, 43572), (54, 43566), (58, 43542), (61, 43533), (66, 43500), (73, 43473), (99, 43341), (100, 43338), (108, 43278),

Gene: CampRoach_51 Start: 43907, Stop: 43287, Start Num: 21

Candidate Starts for CampRoach_51:

(Start: 21 @43907 has 310 MA's), (34, 43811), (51, 43709), (52, 43706), (54, 43700), (58, 43676), (61, 43667), (66, 43634), (73, 43607), (99, 43475), (100, 43472), (108, 43412),

Gene: Cannibal_50 Start: 43756, Stop: 43136, Start Num: 21

Candidate Starts for Cannibal_50:

(Start: 21 @43756 has 310 MA's), (34, 43660), (51, 43558), (52, 43555), (54, 43549), (58, 43525), (61, 43516), (66, 43483), (73, 43456), (99, 43324), (100, 43321), (108, 43261),

Gene: Carthage_48 Start: 42703, Stop: 42083, Start Num: 21

Candidate Starts for Carthage_48:

(Start: 21 @42703 has 310 MA's), (34, 42607), (51, 42505), (52, 42502), (54, 42496), (58, 42472), (61, 42463), (66, 42430), (73, 42403), (99, 42271), (100, 42268), (108, 42208),

Gene: Casbah_47 Start: 43064, Stop: 42519, Start Num: 26

Candidate Starts for Casbah_47:

(Start: 26 @43064 has 46 MA's), (55, 42914), (74, 42827), (75, 42812), (77, 42800), (87, 42770), (92, 42749), (98, 42710), (100, 42704), (101, 42695), (105, 42668),

Gene: ChaChing_48 Start: 43227, Stop: 42682, Start Num: 26

Candidate Starts for ChaChing_48:

(Start: 26 @43227 has 46 MA's), (55, 43077), (74, 42990), (75, 42975), (77, 42963), (87, 42933), (92, 42912), (98, 42873), (100, 42867), (101, 42858), (105, 42831),

Gene: Chaelin_50 Start: 43479, Stop: 42859, Start Num: 21

Candidate Starts for Chaelin_50:

(Start: 21 @43479 has 310 MA's), (34, 43383), (51, 43281), (52, 43278), (54, 43272), (58, 43248), (61, 43239), (66, 43206), (73, 43179), (99, 43047), (100, 43044), (108, 42984),

Gene: Chah_52 Start: 43934, Stop: 43314, Start Num: 21

Candidate Starts for Chah_52:

(Start: 21 @43934 has 310 MA's), (34, 43838), (51, 43736), (52, 43733), (54, 43727), (58, 43703), (61, 43694), (66, 43661), (73, 43634), (99, 43502), (100, 43499), (108, 43439),

Gene: Chandler_48 Start: 43995, Stop: 43450, Start Num: 26

Candidate Starts for Chandler_48:

(Start: 26 @43995 has 46 MA's), (47, 43866), (55, 43845), (74, 43758), (75, 43743), (77, 43731), (87, 43701), (92, 43680), (98, 43641), (100, 43635), (101, 43626), (105, 43599),

Gene: Charles1_50 Start: 43764, Stop: 43144, Start Num: 21

Candidate Starts for Charles1_50:

(Start: 21 @43764 has 310 MA's), (34, 43668), (51, 43566), (52, 43563), (54, 43557), (58, 43533), (61, 43524), (66, 43491), (73, 43464), (99, 43332), (100, 43329), (108, 43269),

Gene: CharlieGBrown_49 Start: 43354, Stop: 42734, Start Num: 21

Candidate Starts for CharlieGBrown_49:

(Start: 21 @43354 has 310 MA's), (34, 43258), (51, 43156), (52, 43153), (54, 43147), (58, 43123), (61, 43114), (66, 43081), (73, 43054), (99, 42922), (100, 42919), (108, 42859),

Gene: CharlottesWeb_43 Start: 36404, Stop: 35910, Start Num: 32

Candidate Starts for CharlottesWeb_43:

(Start: 32 @36404 has 50 MA's), (53, 36299), (69, 36224), (72, 36212), (75, 36191), (77, 36179), (88, 36146), (93, 36125), (96, 36101), (98, 36089), (100, 36083), (105, 36047), (107, 36026), (113, 36005), (124, 35924),

Gene: CheetO_50 Start: 43796, Stop: 43176, Start Num: 21

Candidate Starts for CheetO_50:

(Start: 21 @43796 has 310 MA's), (34, 43700), (51, 43598), (52, 43595), (54, 43589), (58, 43565), (61, 43556), (66, 43523), (73, 43496), (99, 43364), (100, 43361), (108, 43301),

Gene: Cher_49 Start: 43501, Stop: 42881, Start Num: 21

Candidate Starts for Cher_49:

(Start: 21 @43501 has 310 MA's), (34, 43405), (51, 43303), (52, 43300), (54, 43294), (58, 43270), (61, 43261), (66, 43228), (73, 43201), (99, 43069), (100, 43066), (108, 43006),

Gene: Childish_49 Start: 43504, Stop: 42884, Start Num: 21

Candidate Starts for Childish_49:

(Start: 21 @43504 has 310 MA's), (34, 43408), (51, 43306), (52, 43303), (54, 43297), (58, 43273), (61, 43264), (66, 43231), (73, 43204), (99, 43072), (100, 43069), (108, 43009),

Gene: Chorkpop_50 Start: 43512, Stop: 42892, Start Num: 21

Candidate Starts for Chorkpop_50:

(Start: 21 @43512 has 310 MA's), (34, 43416), (51, 43314), (52, 43311), (54, 43305), (58, 43281), (61, 43272), (66, 43239), (73, 43212), (99, 43080), (100, 43077), (108, 43017),

Gene: ChrisnMich_45 Start: 43294, Stop: 42686, Start Num: 21

Candidate Starts for ChrisnMich_45:

(Start: 21 @43294 has 310 MA's), (34, 43204), (54, 43090), (58, 43066), (62, 43054), (71, 43003), (95, 42892), (98, 42871), (99, 42868), (112, 42790),

Gene: Chunky_50 Start: 43800, Stop: 43180, Start Num: 21

Candidate Starts for Chunky_50:

(Start: 21 @43800 has 310 MA's), (34, 43704), (37, 43677), (51, 43602), (52, 43599), (54, 43593), (58, 43569), (61, 43560), (66, 43527), (73, 43500), (81, 43458), (99, 43368), (100, 43365), (108, 43305),

Gene: Chute_49 Start: 43828, Stop: 43208, Start Num: 21

Candidate Starts for Chute_49:

(Start: 21 @43828 has 310 MA's), (34, 43732), (51, 43630), (52, 43627), (54, 43621), (58, 43597), (61, 43588), (66, 43555), (73, 43528), (99, 43396), (100, 43393), (108, 43333),

Gene: CloverMinnie_46 Start: 38802, Stop: 38308, Start Num: 32

Candidate Starts for CloverMinnie_46:

(Start: 32 @38802 has 50 MA's), (50, 38703), (60, 38661), (69, 38622), (72, 38610), (75, 38589), (77, 38577), (87, 38541), (93, 38517), (98, 38481), (100, 38475), (108, 38412), (113, 38394),

Gene: Cobra_50 Start: 43785, Stop: 43165, Start Num: 21

Candidate Starts for Cobra_50:

(Start: 21 @43785 has 310 MA's), (34, 43689), (51, 43587), (52, 43584), (54, 43578), (58, 43554), (61, 43545), (66, 43512), (73, 43485), (99, 43353), (100, 43350), (108, 43290),

Gene: Coffee_49 Start: 43587, Stop: 43063, Start Num: 32

Candidate Starts for Coffee_49:

(23, 43677), (Start: 32 @43587 has 50 MA's), (77, 43347), (87, 43317), (88, 43314), (90, 43302), (92, 43296), (98, 43257), (100, 43251), (103, 43236), (120, 43104),

Gene: Colbert_50 Start: 43852, Stop: 43232, Start Num: 21

Candidate Starts for Colbert_50:

(Start: 21 @43852 has 310 MA's), (34, 43756), (51, 43654), (52, 43651), (54, 43645), (58, 43621), (61, 43612), (66, 43579), (73, 43552), (99, 43420), (100, 43417), (108, 43357),

Gene: Coldpizza_45 Start: 40387, Stop: 39884, Start Num: 26

Candidate Starts for Coldpizza_45:

(Start: 26 @40387 has 46 MA's), (49, 40282), (77, 40156), (87, 40129), (91, 40111), (98, 40069), (101, 40054), (106, 40024), (113, 39985), (120, 39922),

Gene: Coletti_49 Start: 43828, Stop: 43208, Start Num: 21

Candidate Starts for Coletti_49:

(Start: 21 @43828 has 310 MA's), (34, 43732), (51, 43630), (52, 43627), (54, 43621), (58, 43597), (61, 43588), (66, 43555), (73, 43528), (99, 43396), (100, 43393), (108, 43333),

Gene: Compostia_49 Start: 43643, Stop: 43098, Start Num: 26

Candidate Starts for Compostia_49:

(Start: 26 @43643 has 46 MA's), (47, 43514), (55, 43493), (74, 43406), (75, 43391), (77, 43379), (87, 43349), (92, 43328), (98, 43289), (100, 43283), (101, 43274), (105, 43247),

Gene: Cooper_46 Start: 43502, Stop: 42888, Start Num: 21

Candidate Starts for Cooper_46:

(Start: 21 @43502 has 310 MA's), (34, 43409), (54, 43295), (58, 43271), (73, 43202), (95, 43097), (98, 43076), (99, 43073), (112, 42995),

Gene: Cornobble_49 Start: 43342, Stop: 42722, Start Num: 21

Candidate Starts for Cornobble_49:

(Start: 21 @43342 has 310 MA's), (34, 43246), (51, 43144), (52, 43141), (54, 43135), (58, 43111), (61, 43102), (66, 43069), (73, 43042), (99, 42910), (100, 42907), (108, 42847),

Gene: Corofin_48 Start: 43238, Stop: 42693, Start Num: 26

Candidate Starts for Corofin_48:

(Start: 26 @43238 has 46 MA's), (47, 43109), (55, 43088), (74, 43001), (75, 42986), (77, 42974), (87, 42944), (92, 42923), (98, 42884), (100, 42878), (101, 42869), (105, 42842),

Gene: Cosmolli16_49 Start: 43492, Stop: 42872, Start Num: 21

Candidate Starts for Cosmolli16_49:

(Start: 21 @43492 has 310 MA's), (34, 43396), (51, 43294), (52, 43291), (54, 43285), (58, 43261), (61, 43252), (66, 43219), (73, 43192), (99, 43060), (100, 43057), (108, 42997),

Gene: Craff_51 Start: 43920, Stop: 43300, Start Num: 21

Candidate Starts for Craff_51:

(Start: 21 @43920 has 310 MA's), (34, 43824), (51, 43722), (52, 43719), (54, 43713), (58, 43689), (61, 43680), (66, 43647), (73, 43620), (99, 43488), (100, 43485), (108, 43425),

Gene: Crownjwl_50 Start: 43561, Stop: 42941, Start Num: 21

Candidate Starts for Crownjwl_50:

(Start: 21 @43561 has 310 MA's), (34, 43465), (37, 43438), (51, 43363), (52, 43360), (54, 43354), (58, 43330), (61, 43321), (66, 43288), (73, 43261), (81, 43219), (99, 43129), (100, 43126), (108, 43066),

Gene: DaddyDaniels_50 Start: 43473, Stop: 42853, Start Num: 21

Candidate Starts for DaddyDaniels_50:

(Start: 21 @43473 has 310 MA's), (34, 43377), (51, 43275), (52, 43272), (54, 43266), (58, 43242), (61, 43233), (66, 43200), (73, 43173), (81, 43131), (99, 43041), (100, 43038), (108, 42978),

Gene: Daffy_50 Start: 43498, Stop: 42878, Start Num: 21

Candidate Starts for Daffy_50:

(Start: 21 @43498 has 310 MA's), (34, 43402), (51, 43300), (52, 43297), (54, 43291), (58, 43267), (61, 43258), (66, 43225), (73, 43198), (99, 43066), (100, 43063), (108, 43003),

Gene: Daisy_48 Start: 43239, Stop: 42694, Start Num: 26

Candidate Starts for Daisy_48:

(Start: 26 @43239 has 46 MA's), (55, 43089), (74, 43002), (75, 42987), (77, 42975), (87, 42945), (92, 42924), (98, 42885), (100, 42879), (101, 42870), (105, 42843),

Gene: Daka_51 Start: 43777, Stop: 43157, Start Num: 21

Candidate Starts for Daka_51:

(Start: 21 @43777 has 310 MA's), (34, 43681), (51, 43579), (52, 43576), (54, 43570), (58, 43546), (61, 43537), (66, 43504), (73, 43477), (99, 43345), (100, 43342), (108, 43282),

Gene: Dati_50 Start: 43501, Stop: 42881, Start Num: 21

Candidate Starts for Dati_50:

(Start: 21 @43501 has 310 MA's), (34, 43405), (51, 43303), (52, 43300), (54, 43294), (58, 43270), (61, 43261), (66, 43228), (73, 43201), (99, 43069), (100, 43066), (108, 43006),

Gene: Deenasa_48 Start: 43974, Stop: 43429, Start Num: 26

Candidate Starts for Deenasa_48:

(5, 44259), (Start: 26 @43974 has 46 MA's), (55, 43824), (74, 43737), (75, 43722), (77, 43710), (87, 43680), (92, 43659), (98, 43620), (100, 43614), (101, 43605), (105, 43578),

Gene: DelRivs_49 Start: 43505, Stop: 42885, Start Num: 21

Candidate Starts for DelRivs_49:

(Start: 21 @43505 has 310 MA's), (34, 43409), (51, 43307), (52, 43304), (54, 43298), (58, 43274), (61, 43265), (66, 43232), (73, 43205), (99, 43073), (100, 43070), (108, 43010),

Gene: Derpp_49 Start: 43343, Stop: 42723, Start Num: 21

Candidate Starts for Derpp_49:

(Start: 21 @43343 has 310 MA's), (34, 43247), (51, 43145), (52, 43142), (54, 43136), (58, 43112), (61, 43103), (66, 43070), (73, 43043), (81, 43001), (99, 42911), (100, 42908), (108, 42848),

Gene: Devonte_48 Start: 43203, Stop: 42658, Start Num: 26

Candidate Starts for Devonte_48:

(Start: 26 @43203 has 46 MA's), (47, 43074), (55, 43053), (74, 42966), (75, 42951), (77, 42939), (87, 42909), (92, 42888), (98, 42849), (100, 42843), (101, 42834), (105, 42807),

Gene: Dice_49 Start: 43469, Stop: 42849, Start Num: 21

Candidate Starts for Dice_49:

(Start: 21 @43469 has 310 MA's), (34, 43373), (51, 43271), (52, 43268), (54, 43262), (58, 43238), (61, 43229), (66, 43196), (73, 43169), (99, 43037), (100, 43034), (108, 42974),

Gene: DigitDog_49 Start: 44414, Stop: 43812, Start Num: 21

Candidate Starts for DigitDog_49:

(Start: 21 @44414 has 310 MA's), (35, 44294), (52, 44186), (54, 44180), (58, 44156), (95, 44021), (98, 44000), (105, 43958), (108, 43934), (116, 43877),

Gene: Dingo_50 Start: 43768, Stop: 43148, Start Num: 21

Candidate Starts for Dingo_50:

(Start: 21 @43768 has 310 MA's), (34, 43672), (51, 43570), (52, 43567), (54, 43561), (58, 43537), (61, 43528), (66, 43495), (73, 43468), (81, 43426), (99, 43336), (100, 43333), (108, 43273),

Gene: Dione_49 Start: 43477, Stop: 42857, Start Num: 21

Candidate Starts for Dione_49:

(Start: 21 @43477 has 310 MA's), (34, 43381), (51, 43279), (52, 43276), (54, 43270), (58, 43246), (61, 43237), (66, 43204), (73, 43177), (99, 43045), (100, 43042), (108, 42982),

Gene: DirtJuice_50 Start: 43767, Stop: 43147, Start Num: 21

Candidate Starts for DirtJuice_50:

(Start: 21 @43767 has 310 MA's), (34, 43671), (51, 43569), (52, 43566), (54, 43560), (58, 43536), (61, 43527), (66, 43494), (73, 43467), (99, 43335), (100, 43332), (108, 43272),

Gene: Doddsville_50 Start: 43497, Stop: 42877, Start Num: 21

Candidate Starts for Doddsville_50:

(Start: 21 @43497 has 310 MA's), (34, 43401), (51, 43299), (52, 43296), (54, 43290), (58, 43266), (61, 43257), (66, 43224), (73, 43197), (81, 43155), (99, 43065), (100, 43062), (108, 43002),

Gene: DoesntMatter_49 Start: 43770, Stop: 43150, Start Num: 21

Candidate Starts for DoesntMatter_49:

(Start: 21 @43770 has 310 MA's), (34, 43674), (51, 43572), (52, 43569), (54, 43563), (58, 43539), (61, 43530), (66, 43497), (73, 43470), (99, 43338), (100, 43335), (108, 43275),

Gene: DonSanchon_49 Start: 43480, Stop: 42860, Start Num: 21

Candidate Starts for DonSanchon_49:

(Start: 21 @43480 has 310 MA's), (34, 43384), (51, 43282), (52, 43279), (54, 43273), (58, 43249), (61, 43240), (66, 43207), (73, 43180), (99, 43048), (100, 43045), (108, 42985),

Gene: Donny_50 Start: 44705, Stop: 44103, Start Num: 21
Candidate Starts for Donny_50:
(12, 44816), (Start: 21 @44705 has 310 MA's), (35, 44585), (52, 44477), (54, 44471), (58, 44447),
(105, 44249), (108, 44225),

Gene: DuchessDung_49 Start: 42769, Stop: 42149, Start Num: 21
Candidate Starts for DuchessDung_49:
(Start: 21 @42769 has 310 MA's), (34, 42673), (51, 42571), (52, 42568), (54, 42562), (58, 42538), (61,
42529), (66, 42496), (73, 42469), (81, 42427), (99, 42337), (100, 42334), (108, 42274),

Gene: Duggie_49 Start: 43499, Stop: 42879, Start Num: 21
Candidate Starts for Duggie_49:
(Start: 21 @43499 has 310 MA's), (34, 43403), (51, 43301), (52, 43298), (54, 43292), (58, 43268), (61,
43259), (66, 43226), (73, 43199), (81, 43157), (99, 43067), (100, 43064), (108, 43004),

Gene: Durga_51 Start: 43935, Stop: 43315, Start Num: 21
Candidate Starts for Durga_51:
(Start: 21 @43935 has 310 MA's), (34, 43839), (51, 43737), (52, 43734), (54, 43728), (58, 43704), (61,
43695), (66, 43662), (73, 43635), (99, 43503), (100, 43500), (108, 43440),

Gene: Eaglehorse_49 Start: 43513, Stop: 42989, Start Num: 32
Candidate Starts for Eaglehorse_49:
(23, 43603), (Start: 32 @43513 has 50 MA's), (77, 43273), (87, 43243), (88, 43240), (90, 43228), (92,
43222), (98, 43183), (100, 43177), (103, 43162), (120, 43030), (125, 43009),

Gene: EastView9101_48 Start: 44355, Stop: 43753, Start Num: 21
Candidate Starts for EastView9101_48:
(12, 44466), (Start: 21 @44355 has 310 MA's), (35, 44235), (52, 44127), (54, 44121), (58, 44097),
(105, 43899), (108, 43875),

Gene: EmiRose_29 Start: 22644, Stop: 22114, Start Num: 32
Candidate Starts for EmiRose_29:
(Start: 32 @22644 has 50 MA's), (77, 22389), (110, 22230),

Gene: Emiris_51 Start: 43903, Stop: 43283, Start Num: 21
Candidate Starts for Emiris_51:
(Start: 21 @43903 has 310 MA's), (34, 43807), (51, 43705), (52, 43702), (54, 43696), (58, 43672), (61,
43663), (66, 43630), (73, 43603), (99, 43471), (100, 43468), (108, 43408),

Gene: EmpTee_50 Start: 43783, Stop: 43163, Start Num: 21
Candidate Starts for EmpTee_50:
(Start: 21 @43783 has 310 MA's), (34, 43687), (37, 43660), (51, 43585), (52, 43582), (54, 43576), (58,
43552), (61, 43543), (66, 43510), (73, 43483), (81, 43441), (99, 43351), (100, 43348), (108, 43288),

Gene: Epah_44 Start: 43292, Stop: 42684, Start Num: 21
Candidate Starts for Epah_44:
(Start: 21 @43292 has 310 MA's), (34, 43202), (54, 43088), (58, 43064), (62, 43052), (71, 43001), (90,
42914), (95, 42890), (98, 42869), (99, 42866), (112, 42788),

Gene: Eremos_50 Start: 43776, Stop: 43156, Start Num: 21
Candidate Starts for Eremos_50:
(Start: 21 @43776 has 310 MA's), (34, 43680), (51, 43578), (52, 43575), (54, 43569), (58, 43545), (61,
43536), (66, 43503), (73, 43476), (99, 43344), (100, 43341), (108, 43281),

Gene: Etaye_50 Start: 43770, Stop: 43150, Start Num: 21

Candidate Starts for Etaye_50:

(Start: 21 @43770 has 310 MA's), (34, 43674), (51, 43572), (52, 43569), (54, 43563), (58, 43539), (61, 43530), (66, 43497), (73, 43470), (99, 43338), (100, 43335), (108, 43275),

Gene: Eugenia_50 Start: 43780, Stop: 43160, Start Num: 21

Candidate Starts for Eugenia_50:

(Start: 21 @43780 has 310 MA's), (34, 43684), (51, 43582), (52, 43579), (54, 43573), (58, 43549), (61, 43540), (66, 43507), (73, 43480), (99, 43348), (100, 43345), (108, 43285),

Gene: Evaa_43 Start: 37468, Stop: 36944, Start Num: 26

Candidate Starts for Evaa_43:

(Start: 26 @37468 has 46 MA's), (53, 37330), (77, 37213), (88, 37183), (90, 37171), (91, 37168), (100, 37120), (101, 37111), (106, 37081), (113, 37042), (120, 36979),

Gene: Fanaw_44 Start: 43988, Stop: 43377, Start Num: 21

Candidate Starts for Fanaw_44:

(Start: 21 @43988 has 310 MA's), (34, 43898), (54, 43784), (58, 43760), (62, 43748), (71, 43697), (90, 43610), (95, 43586), (98, 43565), (99, 43562), (111, 43487),

Gene: Fang_51 Start: 43928, Stop: 43308, Start Num: 21

Candidate Starts for Fang_51:

(Start: 21 @43928 has 310 MA's), (34, 43832), (51, 43730), (52, 43727), (54, 43721), (58, 43697), (61, 43688), (66, 43655), (73, 43628), (99, 43496), (100, 43493), (108, 43433),

Gene: Faze9_48 Start: 43607, Stop: 43083, Start Num: 32

Candidate Starts for Faze9_48:

(23, 43697), (Start: 32 @43607 has 50 MA's), (77, 43367), (87, 43337), (88, 43334), (90, 43322), (92, 43316), (98, 43277), (100, 43271), (103, 43256), (120, 43124), (125, 43103),

Gene: FluffyNinja_51 Start: 43942, Stop: 43322, Start Num: 21

Candidate Starts for FluffyNinja_51:

(Start: 21 @43942 has 310 MA's), (34, 43846), (51, 43744), (52, 43741), (54, 43735), (58, 43711), (61, 43702), (66, 43669), (73, 43642), (99, 43510), (100, 43507), (108, 43447),

Gene: Fortunato_46 Start: 44349, Stop: 43735, Start Num: 21

Candidate Starts for Fortunato_46:

(Start: 21 @44349 has 310 MA's), (34, 44256), (54, 44142), (58, 44118), (62, 44106), (71, 44055), (90, 43968), (95, 43944), (98, 43923), (99, 43920), (111, 43845),

Gene: Fozzie_49 Start: 43805, Stop: 43185, Start Num: 21

Candidate Starts for Fozzie_49:

(Start: 21 @43805 has 310 MA's), (34, 43709), (51, 43607), (52, 43604), (54, 43598), (58, 43574), (61, 43565), (66, 43532), (73, 43505), (99, 43373), (100, 43370), (108, 43310),

Gene: Frankicide_50 Start: 43807, Stop: 43187, Start Num: 21

Candidate Starts for Frankicide_50:

(Start: 21 @43807 has 310 MA's), (34, 43711), (51, 43609), (52, 43606), (54, 43600), (58, 43576), (61, 43567), (66, 43534), (73, 43507), (99, 43375), (100, 43372), (108, 43312),

Gene: Frederick_46 Start: 44322, Stop: 43711, Start Num: 21

Candidate Starts for Frederick_46:

(Start: 21 @44322 has 310 MA's), (34, 44232), (54, 44118), (58, 44094), (62, 44082), (71, 44031), (90, 43944), (95, 43920), (98, 43899), (99, 43896), (111, 43821),

Gene: FrenchFry_49 Start: 43586, Stop: 43077, Start Num: 32

Candidate Starts for FrenchFry_49:

(23, 43676), (Start: 32 @43586 has 50 MA's), (77, 43361), (87, 43331), (88, 43328), (90, 43316), (92, 43310), (98, 43271), (100, 43265), (103, 43250), (120, 43118), (125, 43097),

Gene: Fresco_43 Start: 36579, Stop: 36085, Start Num: 32

Candidate Starts for Fresco_43:

(Start: 32 @36579 has 50 MA's), (77, 36354), (96, 36276), (98, 36264), (105, 36222), (113, 36180), (124, 36099),

Gene: Freya_49 Start: 43468, Stop: 42848, Start Num: 21

Candidate Starts for Freya_49:

(Start: 21 @43468 has 310 MA's), (34, 43372), (51, 43270), (52, 43267), (54, 43261), (58, 43237), (61, 43228), (66, 43195), (73, 43168), (99, 43036), (100, 43033), (108, 42973),

Gene: FriarPreacher_49 Start: 43819, Stop: 43199, Start Num: 21

Candidate Starts for FriarPreacher_49:

(Start: 21 @43819 has 310 MA's), (34, 43723), (51, 43621), (52, 43618), (54, 43612), (58, 43588), (61, 43579), (66, 43546), (73, 43519), (99, 43387), (100, 43384), (108, 43324),

Gene: Fringe_51 Start: 43904, Stop: 43284, Start Num: 21

Candidate Starts for Fringe_51:

(Start: 21 @43904 has 310 MA's), (34, 43808), (51, 43706), (52, 43703), (54, 43697), (58, 43673), (61, 43664), (66, 43631), (73, 43604), (99, 43472), (100, 43469), (108, 43409),

Gene: FugateOSU_49 Start: 43482, Stop: 42862, Start Num: 21

Candidate Starts for FugateOSU_49:

(Start: 21 @43482 has 310 MA's), (34, 43386), (51, 43284), (52, 43281), (54, 43275), (58, 43251), (61, 43242), (66, 43209), (73, 43182), (99, 43050), (100, 43047), (108, 42987),

Gene: Funsized_53 Start: 47015, Stop: 46386, Start Num: 21

Candidate Starts for Funsized_53:

(Start: 21 @47015 has 310 MA's), (35, 46910), (48, 46814), (51, 46805), (52, 46802), (56, 46787), (59, 46769), (67, 46721), (73, 46697), (83, 46640), (85, 46634), (99, 46565), (108, 46502),

Gene: Gadget_49 Start: 43226, Stop: 42681, Start Num: 26

Candidate Starts for Gadget_49:

(Start: 26 @43226 has 46 MA's), (47, 43097), (55, 43076), (74, 42989), (75, 42974), (77, 42962), (87, 42932), (92, 42911), (98, 42872), (100, 42866), (101, 42857), (105, 42830),

Gene: Gareth_49 Start: 43476, Stop: 42856, Start Num: 21

Candidate Starts for Gareth_49:

(Start: 21 @43476 has 310 MA's), (34, 43380), (51, 43278), (52, 43275), (54, 43269), (58, 43245), (61, 43236), (66, 43203), (73, 43176), (99, 43044), (100, 43041), (108, 42981),

Gene: GeneCoco_50 Start: 43791, Stop: 43171, Start Num: 21

Candidate Starts for GeneCoco_50:

(Start: 21 @43791 has 310 MA's), (34, 43695), (51, 43593), (52, 43590), (54, 43584), (58, 43560), (61, 43551), (66, 43518), (73, 43491), (81, 43449), (99, 43359), (100, 43356), (108, 43296),

Gene: Gervas_48 Start: 43193, Stop: 42648, Start Num: 26

Candidate Starts for Gervas_48:

(Start: 26 @43193 has 46 MA's), (55, 43043), (74, 42956), (75, 42941), (77, 42929), (87, 42899), (92, 42878), (98, 42839), (100, 42833), (101, 42824), (105, 42797),

Gene: GinPorsche_44 Start: 43292, Stop: 42684, Start Num: 21

Candidate Starts for GinPorsche_44:

(Start: 21 @43292 has 310 MA's), (34, 43202), (54, 43088), (58, 43064), (62, 43052), (71, 43001), (90, 42914), (95, 42890), (98, 42869), (99, 42866), (112, 42788),

Gene: Giraffe_50 Start: 43500, Stop: 42880, Start Num: 21

Candidate Starts for Giraffe_50:

(Start: 21 @43500 has 310 MA's), (34, 43404), (51, 43302), (52, 43299), (54, 43293), (58, 43269), (61, 43260), (66, 43227), (73, 43200), (99, 43068), (100, 43065), (108, 43005),

Gene: Glass_49 Start: 43591, Stop: 43079, Start Num: 32

Candidate Starts for Glass_49:

(23, 43681), (Start: 32 @43591 has 50 MA's), (77, 43363), (87, 43333), (88, 43330), (90, 43318), (92, 43312), (98, 43273), (100, 43267), (103, 43252), (120, 43120), (125, 43099),

Gene: GlenHope_49 Start: 43206, Stop: 42661, Start Num: 26

Candidate Starts for GlenHope_49:

(Start: 26 @43206 has 46 MA's), (47, 43077), (55, 43056), (74, 42969), (75, 42954), (77, 42942), (87, 42912), (92, 42891), (100, 42846), (101, 42837), (105, 42810),

Gene: Godines_49 Start: 43543, Stop: 43019, Start Num: 32

Candidate Starts for Godines_49:

(23, 43633), (Start: 32 @43543 has 50 MA's), (77, 43303), (87, 43273), (88, 43270), (90, 43258), (92, 43252), (98, 43213), (100, 43207), (120, 43060),

Gene: Gophee_50 Start: 43774, Stop: 43154, Start Num: 21

Candidate Starts for Gophee_50:

(Start: 21 @43774 has 310 MA's), (34, 43678), (51, 43576), (52, 43573), (54, 43567), (58, 43543), (61, 43534), (66, 43501), (73, 43474), (99, 43342), (100, 43339), (108, 43279),

Gene: Grand2040_49 Start: 43494, Stop: 42874, Start Num: 21

Candidate Starts for Grand2040_49:

(Start: 21 @43494 has 310 MA's), (34, 43398), (51, 43296), (52, 43293), (54, 43287), (58, 43263), (61, 43254), (66, 43221), (73, 43194), (99, 43062), (100, 43059), (108, 42999),

Gene: Gustav_29 Start: 23634, Stop: 23074, Start Num: 25

Candidate Starts for Gustav_29:

(Start: 25 @23634 has 5 MA's), (69, 23397), (77, 23352), (106, 23220), (107, 23202), (108, 23199), (109, 23196), (113, 23181),

Gene: Gwilliam_51 Start: 43780, Stop: 43160, Start Num: 21

Candidate Starts for Gwilliam_51:

(Start: 21 @43780 has 310 MA's), (34, 43684), (51, 43582), (52, 43579), (54, 43573), (58, 43549), (61, 43540), (66, 43507), (73, 43480), (99, 43348), (100, 43345), (108, 43285),

Gene: Gyarad_0050 Start: 43794, Stop: 43174, Start Num: 21

Candidate Starts for Gyarad_0050:

(Start: 21 @43794 has 310 MA's), (34, 43698), (51, 43596), (52, 43593), (54, 43587), (58, 43563), (61, 43554), (66, 43521), (73, 43494), (99, 43362), (100, 43359), (108, 43299),

Gene: HSavage_50 Start: 43786, Stop: 43166, Start Num: 21

Candidate Starts for HSavage_50:

(Start: 21 @43786 has 310 MA's), (34, 43690), (37, 43663), (51, 43588), (52, 43585), (54, 43579), (58, 43555), (61, 43546), (66, 43513), (73, 43486), (99, 43354), (100, 43351), (108, 43291),

Gene: Haimas_50 Start: 43780, Stop: 43160, Start Num: 21

Candidate Starts for Haimas_50:

(Start: 21 @43780 has 310 MA's), (34, 43684), (51, 43582), (52, 43579), (54, 43573), (58, 43549), (61, 43540), (66, 43507), (73, 43480), (99, 43348), (100, 43345), (108, 43285),

Gene: Haleema_49 Start: 43494, Stop: 42874, Start Num: 21

Candidate Starts for Haleema_49:

(Start: 21 @43494 has 310 MA's), (34, 43398), (51, 43296), (52, 43293), (54, 43287), (58, 43263), (61, 43254), (66, 43221), (73, 43194), (99, 43062), (100, 43059), (108, 42999),

Gene: Halfpint_47 Start: 43031, Stop: 42486, Start Num: 26

Candidate Starts for Halfpint_47:

(Start: 26 @43031 has 46 MA's), (47, 42902), (55, 42881), (74, 42794), (75, 42779), (77, 42767), (87, 42737), (92, 42716), (98, 42677), (100, 42671), (101, 42662), (105, 42635),

Gene: Hally898_44 Start: 43304, Stop: 42696, Start Num: 21

Candidate Starts for Hally898_44:

(Start: 21 @43304 has 310 MA's), (34, 43214), (54, 43100), (58, 43076), (62, 43064), (71, 43013), (90, 42926), (95, 42902), (98, 42881), (99, 42878), (112, 42800),

Gene: Hamish_50 Start: 43772, Stop: 43152, Start Num: 21

Candidate Starts for Hamish_50:

(8, 43886), (14, 43859), (18, 43847), (Start: 21 @43772 has 310 MA's), (34, 43676), (51, 43574), (52, 43571), (54, 43565), (58, 43541), (61, 43532), (66, 43499), (73, 43472), (99, 43340), (100, 43337), (108, 43277),

Gene: Hangman_45 Start: 44428, Stop: 43820, Start Num: 21

Candidate Starts for Hangman_45:

(Start: 21 @44428 has 310 MA's), (34, 44338), (54, 44224), (58, 44200), (62, 44188), (71, 44137), (90, 44050), (95, 44026), (98, 44005), (99, 44002), (111, 43927), (112, 43924),

Gene: Hartsy_50 Start: 43823, Stop: 43203, Start Num: 21

Candidate Starts for Hartsy_50:

(Start: 21 @43823 has 310 MA's), (34, 43727), (51, 43625), (52, 43622), (54, 43616), (58, 43592), (61, 43583), (66, 43550), (73, 43523), (99, 43391), (100, 43388), (108, 43328),

Gene: Harvey_50 Start: 43810, Stop: 43190, Start Num: 21

Candidate Starts for Harvey_50:

(Start: 21 @43810 has 310 MA's), (34, 43714), (51, 43612), (52, 43609), (54, 43603), (58, 43579), (61, 43570), (66, 43537), (73, 43510), (99, 43378), (100, 43375), (108, 43315),

Gene: HarveySr_48 Start: 43199, Stop: 42654, Start Num: 26

Candidate Starts for HarveySr_48:

(Start: 26 @43199 has 46 MA's), (55, 43049), (74, 42962), (75, 42947), (77, 42935), (87, 42905), (92, 42884), (98, 42845), (100, 42839), (101, 42830), (105, 42803),

Gene: Hashim76_53 Start: 43507, Stop: 42890, Start Num: 21

Candidate Starts for Hashim76_53:

(Start: 21 @43507 has 310 MA's), (41, 43306), (48, 43279), (58, 43237), (99, 43075), (108, 43012), (114, 42961),

Gene: Heath_44 Start: 43936, Stop: 43322, Start Num: 21

Candidate Starts for Heath_44:

(Start: 21 @43936 has 310 MA's), (34, 43843), (54, 43729), (58, 43705), (62, 43693), (71, 43642), (90, 43555), (95, 43531), (98, 43510), (99, 43507), (111, 43432),

Gene: Heathcliff_48 Start: 43177, Stop: 42632, Start Num: 26

Candidate Starts for Heathcliff_48:

(Start: 26 @43177 has 46 MA's), (47, 43048), (55, 43027), (74, 42940), (75, 42925), (77, 42913), (87, 42883), (92, 42862), (98, 42823), (100, 42817), (101, 42808), (105, 42781),

Gene: Hedgerow_49 Start: 43600, Stop: 43061, Start Num: 32

Candidate Starts for Hedgerow_49:

(23, 43690), (Start: 32 @43600 has 50 MA's), (77, 43345), (87, 43315), (88, 43312), (90, 43300), (92, 43294), (98, 43255), (100, 43249), (103, 43234), (120, 43102), (125, 43081),

Gene: Held_50 Start: 43499, Stop: 42879, Start Num: 21

Candidate Starts for Held_50:

(Start: 21 @43499 has 310 MA's), (34, 43403), (51, 43301), (52, 43298), (54, 43292), (58, 43268), (61, 43259), (66, 43226), (73, 43199), (99, 43067), (100, 43064), (108, 43004),

Gene: HenryJackson_49 Start: 43494, Stop: 42874, Start Num: 21

Candidate Starts for HenryJackson_49:

(Start: 21 @43494 has 310 MA's), (34, 43398), (51, 43296), (52, 43293), (54, 43287), (58, 43263), (61, 43254), (66, 43221), (73, 43194), (99, 43062), (100, 43059), (108, 42999),

Gene: Hertubise_50 Start: 43794, Stop: 43174, Start Num: 21

Candidate Starts for Hertubise_50:

(Start: 21 @43794 has 310 MA's), (34, 43698), (51, 43596), (52, 43593), (54, 43587), (58, 43563), (61, 43554), (66, 43521), (73, 43494), (99, 43362), (100, 43359), (108, 43299),

Gene: Hetaeria_50 Start: 43811, Stop: 43191, Start Num: 21

Candidate Starts for Hetaeria_50:

(Start: 21 @43811 has 310 MA's), (34, 43715), (51, 43613), (52, 43610), (54, 43604), (58, 43580), (61, 43571), (66, 43538), (73, 43511), (99, 43379), (100, 43376), (108, 43316),

Gene: HighStump_50 Start: 43621, Stop: 43001, Start Num: 21

Candidate Starts for HighStump_50:

(Start: 21 @43621 has 310 MA's), (34, 43525), (51, 43423), (52, 43420), (54, 43414), (58, 43390), (61, 43381), (66, 43348), (73, 43321), (99, 43189), (100, 43186), (108, 43126),

Gene: Hocus_49 Start: 43483, Stop: 42863, Start Num: 21

Candidate Starts for Hocus_49:

(Start: 21 @43483 has 310 MA's), (34, 43387), (51, 43285), (52, 43282), (54, 43276), (58, 43252), (61, 43243), (66, 43210), (73, 43183), (99, 43051), (100, 43048), (108, 42988),

Gene: Holeinone_49 Start: 43451, Stop: 42939, Start Num: 32

Candidate Starts for Holeinone_49:

(23, 43541), (Start: 32 @43451 has 50 MA's), (77, 43223), (87, 43193), (88, 43190), (90, 43178), (92, 43172), (98, 43133), (100, 43127), (103, 43112), (120, 42980),

Gene: Horchata_50 Start: 43786, Stop: 43166, Start Num: 21

Candidate Starts for Horchata_50:

(Start: 21 @43786 has 310 MA's), (34, 43690), (51, 43588), (52, 43585), (54, 43579), (58, 43555), (61, 43546), (66, 43513), (73, 43486), (99, 43354), (100, 43351), (108, 43291),

Gene: Hosp_041 Start: 40282, Stop: 39653, Start Num: 22

Candidate Starts for Hosp_041:

(11, 40396), (Start: 22 @40282 has 1 MA's), (51, 40081), (52, 40078), (54, 40072), (58, 40048), (73, 39976),

Gene: Hydro_45 Start: 44364, Stop: 43750, Start Num: 21

Candidate Starts for Hydro_45:

(Start: 21 @44364 has 310 MA's), (34, 44271), (54, 44157), (58, 44133), (62, 44121), (71, 44070), (90, 43983), (95, 43959), (98, 43938), (99, 43935), (111, 43860),

Gene: ImtiyazSitla_50 Start: 43469, Stop: 42849, Start Num: 21

Candidate Starts for ImtiyazSitla_50:

(Start: 21 @43469 has 310 MA's), (34, 43373), (51, 43271), (52, 43268), (54, 43262), (58, 43238), (61, 43229), (66, 43196), (73, 43169), (99, 43037), (100, 43034), (108, 42974),

Gene: Imvubu_42 Start: 41052, Stop: 40453, Start Num: 21

Candidate Starts for Imvubu_42:

(1, 41370), (13, 41151), (17, 41136), (Start: 21 @41052 has 310 MA's), (34, 40947), (35, 40938), (48, 40848), (54, 40830), (57, 40815), (58, 40806), (68, 40752), (108, 40581),

Gene: Inchworm_51 Start: 43907, Stop: 43287, Start Num: 21

Candidate Starts for Inchworm_51:

(Start: 21 @43907 has 310 MA's), (34, 43811), (51, 43709), (52, 43706), (54, 43700), (58, 43676), (61, 43667), (66, 43634), (73, 43607), (99, 43475), (100, 43472), (108, 43412),

Gene: Indlovu_47 Start: 43460, Stop: 42840, Start Num: 21

Candidate Starts for Indlovu_47:

(Start: 21 @43460 has 310 MA's), (45, 43289), (48, 43277), (58, 43235), (66, 43190), (68, 43184), (73, 43163), (95, 43055), (98, 43034), (99, 43031),

Gene: Inverness_50 Start: 43795, Stop: 43175, Start Num: 21

Candidate Starts for Inverness_50:

(Start: 21 @43795 has 310 MA's), (34, 43699), (37, 43672), (51, 43597), (52, 43594), (54, 43588), (58, 43564), (61, 43555), (66, 43522), (73, 43495), (99, 43363), (100, 43360), (108, 43300),

Gene: Iridoclysis_50 Start: 43766, Stop: 43146, Start Num: 21

Candidate Starts for Iridoclysis_50:

(Start: 21 @43766 has 310 MA's), (34, 43670), (51, 43568), (52, 43565), (54, 43559), (58, 43535), (61, 43526), (66, 43493), (73, 43466), (99, 43334), (100, 43331), (108, 43271),

Gene: IsaacEli_51 Start: 43925, Stop: 43305, Start Num: 21

Candidate Starts for IsaacEli_51:

(Start: 21 @43925 has 310 MA's), (34, 43829), (51, 43727), (52, 43724), (54, 43718), (58, 43694), (61, 43685), (66, 43652), (73, 43625), (99, 43493), (100, 43490), (108, 43430),

Gene: ItsyBitsy1_49 Start: 43468, Stop: 42941, Start Num: 32

Candidate Starts for ItsyBitsy1_49:

(23, 43558), (Start: 32 @43468 has 50 MA's), (77, 43225), (87, 43195), (88, 43192), (90, 43180), (92, 43174), (98, 43135), (100, 43129), (103, 43114), (120, 42982),

Gene: JAMaL_45 Start: 44498, Stop: 43890, Start Num: 21

Candidate Starts for JAMaL_45:

(Start: 21 @44498 has 310 MA's), (34, 44408), (54, 44294), (58, 44270), (62, 44258), (71, 44207), (90, 44120), (95, 44096), (98, 44075), (99, 44072), (112, 43994),

Gene: JDog_49 Start: 43503, Stop: 42883, Start Num: 21

Candidate Starts for JDog_49:

(Start: 21 @43503 has 310 MA's), (34, 43407), (51, 43305), (52, 43302), (54, 43296), (58, 43272), (61, 43263), (66, 43230), (73, 43203), (99, 43071), (100, 43068), (108, 43008),

Gene: JacAttac_51 Start: 43907, Stop: 43287, Start Num: 21

Candidate Starts for JacAttac_51:

(Start: 21 @43907 has 310 MA's), (34, 43811), (51, 43709), (52, 43706), (54, 43700), (58, 43676), (61, 43667), (66, 43634), (73, 43607), (99, 43475), (100, 43472), (108, 43412),

Gene: Jackstina_45 Start: 43136, Stop: 42591, Start Num: 26

Candidate Starts for Jackstina_45:

(Start: 26 @43136 has 46 MA's), (47, 43007), (55, 42986), (74, 42899), (75, 42884), (77, 42872), (87, 42842), (92, 42821), (98, 42782), (100, 42776), (101, 42767), (105, 42740),

Gene: JaguarMi_45 Start: 43807, Stop: 43199, Start Num: 21

Candidate Starts for JaguarMi_45:

(Start: 21 @43807 has 310 MA's), (34, 43717), (51, 43612), (54, 43603), (58, 43579), (71, 43516), (90, 43429), (95, 43405), (98, 43384), (99, 43381), (111, 43306),

Gene: JakeO_49 Start: 43502, Stop: 42882, Start Num: 21

Candidate Starts for JakeO_49:

(Start: 21 @43502 has 310 MA's), (34, 43406), (51, 43304), (52, 43301), (54, 43295), (58, 43271), (61, 43262), (66, 43229), (73, 43202), (81, 43160), (99, 43070), (100, 43067), (108, 43007),

Gene: JangoPhett_50 Start: 43777, Stop: 43157, Start Num: 21

Candidate Starts for JangoPhett_50:

(Start: 21 @43777 has 310 MA's), (34, 43681), (51, 43579), (52, 43576), (54, 43570), (58, 43546), (61, 43537), (66, 43504), (73, 43477), (99, 43345), (100, 43342), (108, 43282),

Gene: Jillium_49 Start: 43496, Stop: 42876, Start Num: 21

Candidate Starts for Jillium_49:

(Start: 21 @43496 has 310 MA's), (34, 43400), (51, 43298), (52, 43295), (54, 43289), (58, 43265), (61, 43256), (66, 43223), (73, 43196), (99, 43064), (100, 43061), (108, 43001),

Gene: Jiminy_49 Start: 43337, Stop: 42717, Start Num: 21

Candidate Starts for Jiminy_49:

(Start: 21 @43337 has 310 MA's), (34, 43241), (51, 43139), (52, 43136), (54, 43130), (58, 43106), (61, 43097), (66, 43064), (73, 43037), (81, 42995), (99, 42905), (100, 42902), (108, 42842),

Gene: Jiraiya_52 Start: 43490, Stop: 42870, Start Num: 21

Candidate Starts for Jiraiya_52:

(Start: 21 @43490 has 310 MA's), (34, 43394), (51, 43292), (52, 43289), (54, 43283), (58, 43259), (61, 43250), (66, 43217), (73, 43190), (99, 43058), (100, 43055), (108, 42995),

Gene: Jolie1_043 Start: 42057, Stop: 41428, Start Num: 22

Candidate Starts for Jolie1_043:

(Start: 22 @42057 has 1 MA's), (51, 41856), (54, 41847), (58, 41823), (73, 41751),

Gene: KLucky39_50 Start: 43793, Stop: 43173, Start Num: 21

Candidate Starts for KLucky39_50:

(Start: 21 @43793 has 310 MA's), (34, 43697), (51, 43595), (52, 43592), (54, 43586), (58, 43562), (61, 43553), (66, 43520), (73, 43493), (99, 43361), (100, 43358), (108, 43298),

Gene: Kahve_49 Start: 43491, Stop: 42871, Start Num: 21

Candidate Starts for Kahve_49:

(Start: 21 @43491 has 310 MA's), (34, 43395), (51, 43293), (52, 43290), (54, 43284), (58, 43260), (61, 43251), (66, 43218), (73, 43191), (99, 43059), (100, 43056), (108, 42996),

Gene: Kailash_50 Start: 43853, Stop: 43233, Start Num: 21

Candidate Starts for Kailash_50:

(Start: 21 @43853 has 310 MA's), (34, 43757), (51, 43655), (52, 43652), (54, 43646), (58, 43622), (61, 43613), (66, 43580), (73, 43553), (99, 43421), (100, 43418), (108, 43358),

Gene: Kaleb_49 Start: 43615, Stop: 43076, Start Num: 32

Candidate Starts for Kaleb_49:

(23, 43705), (Start: 32 @43615 has 50 MA's), (77, 43360), (87, 43330), (88, 43327), (90, 43315), (92, 43309), (98, 43270), (100, 43264), (103, 43249), (120, 43117), (125, 43096),

Gene: Kamiyu_48 Start: 43184, Stop: 42639, Start Num: 26

Candidate Starts for Kamiyu_48:

(Start: 26 @43184 has 46 MA's), (47, 43055), (55, 43034), (74, 42947), (75, 42932), (77, 42920), (87, 42890), (92, 42869), (98, 42830), (100, 42824), (101, 42815), (105, 42788),

Gene: KarasumaRum_50 Start: 44848, Stop: 44249, Start Num: 21

Candidate Starts for KarasumaRum_50:

(12, 44956), (Start: 21 @44848 has 310 MA's), (35, 44731), (52, 44623), (54, 44617), (58, 44593), (95, 44458), (105, 44395), (108, 44371), (116, 44314),

Gene: Katniss_51 Start: 43934, Stop: 43314, Start Num: 21

Candidate Starts for Katniss_51:

(Start: 21 @43934 has 310 MA's), (34, 43838), (51, 43736), (52, 43733), (54, 43727), (58, 43703), (61, 43694), (66, 43661), (73, 43634), (99, 43502), (100, 43499), (108, 43439),

Gene: KayaCho_43 Start: 42082, Stop: 41447, Start Num: 22

Candidate Starts for KayaCho_43:

(6, 42232), (16, 42172), (Start: 22 @42082 has 1 MA's), (51, 41875), (52, 41872), (54, 41866), (58, 41842), (73, 41770), (98, 41641),

Gene: Keitherie_50 Start: 43837, Stop: 43217, Start Num: 21

Candidate Starts for Keitherie_50:

(Start: 21 @43837 has 310 MA's), (34, 43741), (51, 43639), (52, 43636), (54, 43630), (58, 43606), (61, 43597), (66, 43564), (73, 43537), (99, 43405), (100, 43402), (108, 43342),

Gene: Kheth_49 Start: 43504, Stop: 42992, Start Num: 32

Candidate Starts for Kheth_49:

(23, 43594), (Start: 32 @43504 has 50 MA's), (77, 43276), (87, 43246), (88, 43243), (90, 43231), (92, 43225), (98, 43186), (100, 43180), (103, 43165), (120, 43033),

Gene: Kikipoo_51 Start: 43925, Stop: 43305, Start Num: 21

Candidate Starts for Kikipoo_51:

(Start: 21 @43925 has 310 MA's), (34, 43829), (51, 43727), (52, 43724), (54, 43718), (58, 43694), (61, 43685), (66, 43652), (73, 43625), (99, 43493), (100, 43490), (108, 43430),

Gene: Kimbrough_50 Start: 43498, Stop: 42878, Start Num: 21

Candidate Starts for Kimbrough_50:

(Start: 21 @43498 has 310 MA's), (34, 43402), (51, 43300), (52, 43297), (54, 43291), (58, 43267), (61, 43258), (66, 43225), (73, 43198), (99, 43066), (100, 43063), (108, 43003),

Gene: KingTut_41 Start: 39161, Stop: 38541, Start Num: 21

Candidate Starts for KingTut_41:

(Start: 21 @39161 has 310 MA's), (34, 39065), (51, 38963), (52, 38960), (54, 38954), (58, 38930), (61, 38921), (66, 38888), (73, 38861), (99, 38729), (100, 38726), (108, 38666),

Gene: KingVeVeVe_50 Start: 43769, Stop: 43149, Start Num: 21

Candidate Starts for KingVeVeVe_50:

(Start: 21 @43769 has 310 MA's), (34, 43673), (51, 43571), (52, 43568), (54, 43562), (58, 43538), (61, 43529), (66, 43496), (73, 43469), (99, 43337), (100, 43334), (108, 43274),

Gene: KlimbOn_50 Start: 43787, Stop: 43167, Start Num: 21

Candidate Starts for KlimbOn_50:

(Start: 21 @43787 has 310 MA's), (34, 43691), (37, 43664), (51, 43589), (52, 43586), (54, 43580), (58, 43556), (61, 43547), (66, 43514), (73, 43487), (99, 43355), (100, 43352), (108, 43292),

Gene: Kloppinator_51 Start: 44200, Stop: 43580, Start Num: 21

Candidate Starts for Kloppinator_51:

(Start: 21 @44200 has 310 MA's), (34, 44104), (51, 44002), (52, 43999), (54, 43993), (58, 43969), (61, 43960), (66, 43927), (73, 43900), (99, 43768), (100, 43765), (108, 43705),

Gene: Klocker_51 Start: 46002, Stop: 45382, Start Num: 21

Candidate Starts for Klocker_51:

(Start: 21 @46002 has 310 MA's), (35, 45912), (48, 45813), (51, 45804), (52, 45801), (59, 45768), (67, 45720), (73, 45696), (83, 45639), (85, 45633), (99, 45564), (104, 45543), (108, 45501), (118, 45438),

Gene: Kronus_47 Start: 43796, Stop: 43251, Start Num: 26

Candidate Starts for Kronus_47:

(Start: 26 @43796 has 46 MA's), (55, 43646), (74, 43559), (75, 43544), (77, 43532), (87, 43502), (92, 43481), (98, 43442), (100, 43436), (101, 43427), (105, 43400),

Gene: Kwadwo_49 Start: 43473, Stop: 42853, Start Num: 21

Candidate Starts for Kwadwo_49:

(Start: 21 @43473 has 310 MA's), (34, 43377), (51, 43275), (52, 43272), (54, 43266), (58, 43242), (61, 43233), (66, 43200), (73, 43173), (99, 43041), (100, 43038), (108, 42978),

Gene: Kwksand96_49 Start: 43348, Stop: 42728, Start Num: 21

Candidate Starts for Kwksand96_49:

(Start: 21 @43348 has 310 MA's), (34, 43252), (51, 43150), (52, 43147), (54, 43141), (58, 43117), (61, 43108), (66, 43075), (73, 43048), (99, 42916), (100, 42913), (108, 42853),

Gene: Labeouficaum_49 Start: 43343, Stop: 42723, Start Num: 21

Candidate Starts for Labeouficaum_49:

(Start: 21 @43343 has 310 MA's), (34, 43247), (51, 43145), (52, 43142), (54, 43136), (58, 43112), (61, 43103), (66, 43070), (73, 43043), (81, 43001), (99, 42911), (100, 42908), (108, 42848),

Gene: Lambano_44 Start: 43304, Stop: 42696, Start Num: 21

Candidate Starts for Lambano_44:

(Start: 21 @43304 has 310 MA's), (34, 43214), (54, 43100), (58, 43076), (62, 43064), (71, 43013), (90, 42926), (95, 42902), (98, 42881), (99, 42878), (112, 42800),

Gene: Lars_49 Start: 43575, Stop: 43063, Start Num: 32

Candidate Starts for Lars_49:

(23, 43665), (Start: 32 @43575 has 50 MA's), (77, 43347), (87, 43317), (88, 43314), (90, 43302), (92, 43296), (98, 43257), (100, 43251), (103, 43236), (120, 43104), (125, 43083),

Gene: LasagnaCat_51 Start: 43919, Stop: 43299, Start Num: 21

Candidate Starts for LasagnaCat_51:

(Start: 21 @43919 has 310 MA's), (34, 43823), (51, 43721), (52, 43718), (54, 43712), (58, 43688), (61, 43679), (66, 43646), (73, 43619), (99, 43487), (100, 43484), (108, 43424),

Gene: Lasso_50 Start: 43748, Stop: 43128, Start Num: 21

Candidate Starts for Lasso_50:

(Start: 21 @43748 has 310 MA's), (34, 43652), (51, 43550), (52, 43547), (54, 43541), (58, 43517), (61, 43508), (66, 43475), (73, 43448), (99, 43316), (100, 43313), (108, 43253),

Gene: Laurie_48 Start: 42963, Stop: 42463, Start Num: 32

Candidate Starts for Laurie_48:

(23, 43053), (Start: 32 @42963 has 50 MA's), (77, 42747), (87, 42717), (88, 42714), (90, 42702), (92, 42696), (98, 42657), (100, 42651), (103, 42636), (120, 42504),

Gene: LeeLot_50 Start: 43800, Stop: 43180, Start Num: 21

Candidate Starts for LeeLot_50:

(Start: 21 @43800 has 310 MA's), (34, 43704), (51, 43602), (52, 43599), (54, 43593), (58, 43569), (61, 43560), (66, 43527), (73, 43500), (99, 43368), (100, 43365), (108, 43305),

Gene: Lego3393_49 Start: 43928, Stop: 43308, Start Num: 21

Candidate Starts for Lego3393_49:

(Start: 21 @43928 has 310 MA's), (34, 43832), (51, 43730), (52, 43727), (54, 43721), (58, 43697), (61, 43688), (66, 43655), (73, 43628), (99, 43496), (100, 43493), (108, 43433),

Gene: Legolas_50 Start: 43518, Stop: 42898, Start Num: 21

Candidate Starts for Legolas_50:

(Start: 21 @43518 has 310 MA's), (34, 43422), (51, 43320), (52, 43317), (54, 43311), (58, 43287), (61, 43278), (66, 43245), (73, 43218), (99, 43086), (100, 43083), (108, 43023),

Gene: LeiMonet_51 Start: 43480, Stop: 42860, Start Num: 21

Candidate Starts for LeiMonet_51:

(Start: 21 @43480 has 310 MA's), (34, 43384), (51, 43282), (52, 43279), (54, 43273), (58, 43249), (61, 43240), (66, 43207), (73, 43180), (99, 43048), (100, 43045), (108, 42985),

Gene: LemonSlice_50 Start: 43485, Stop: 42865, Start Num: 21

Candidate Starts for LemonSlice_50:

(Start: 21 @43485 has 310 MA's), (34, 43389), (51, 43287), (52, 43284), (54, 43278), (58, 43254), (61, 43245), (66, 43212), (73, 43185), (99, 43053), (100, 43050), (108, 42990),

Gene: Lephleur_49 Start: 43481, Stop: 42957, Start Num: 32

Candidate Starts for Lephleur_49:

(23, 43571), (Start: 32 @43481 has 50 MA's), (77, 43241), (87, 43211), (88, 43208), (90, 43196), (92, 43190), (98, 43151), (100, 43145), (103, 43130), (120, 42998), (125, 42977),

Gene: LestyG_48 Start: 43216, Stop: 42671, Start Num: 26

Candidate Starts for LestyG_48:

(Start: 26 @43216 has 46 MA's), (55, 43066), (74, 42979), (75, 42964), (77, 42952), (87, 42922), (92, 42901), (98, 42862), (100, 42856), (101, 42847), (105, 42820),

Gene: Ligma_43 Start: 36579, Stop: 36085, Start Num: 32

Candidate Starts for Ligma_43:

(Start: 32 @36579 has 50 MA's), (77, 36354), (96, 36276), (98, 36264), (105, 36222), (113, 36180), (124, 36099),

Gene: LilMcDreamy_47 Start: 43863, Stop: 43261, Start Num: 21

Candidate Starts for LilMcDreamy_47:

(Start: 21 @43863 has 310 MA's), (35, 43746), (52, 43638), (54, 43632), (58, 43608), (99, 43449), (105, 43410), (108, 43386), (112, 43371), (115, 43332), (117, 43326),

Gene: LittleMunchkin_45 Start: 39895, Stop: 39398, Start Num: 32

Candidate Starts for LittleMunchkin_45:

(Start: 32 @39895 has 50 MA's), (69, 39712), (70, 39706), (72, 39700), (77, 39667), (82, 39655), (93, 39613), (98, 39577), (100, 39571), (105, 39535), (107, 39514), (113, 39493),

Gene: LizLemon_49 Start: 43597, Stop: 43073, Start Num: 32

Candidate Starts for LizLemon_49:

(23, 43687), (Start: 32 @43597 has 50 MA's), (77, 43357), (87, 43327), (88, 43324), (90, 43312), (92, 43306), (98, 43267), (100, 43261), (103, 43246), (120, 43114), (125, 43093),

Gene: Lolalove_46 Start: 44331, Stop: 43717, Start Num: 21

Candidate Starts for Lolalove_46:

(Start: 21 @44331 has 310 MA's), (34, 44238), (54, 44124), (58, 44100), (62, 44088), (71, 44037), (90, 43950), (95, 43926), (98, 43905), (99, 43902), (111, 43827),

Gene: Longacauda_49 Start: 43481, Stop: 42861, Start Num: 21

Candidate Starts for Longacauda_49:

(Start: 21 @43481 has 310 MA's), (34, 43385), (51, 43283), (52, 43280), (54, 43274), (58, 43250), (61, 43241), (66, 43208), (73, 43181), (99, 43049), (100, 43046), (108, 42986),

Gene: Lopsy_49 Start: 43346, Stop: 42726, Start Num: 21

Candidate Starts for Lopsy_49:

(Start: 21 @43346 has 310 MA's), (34, 43250), (51, 43148), (52, 43145), (54, 43139), (58, 43115), (61, 43106), (66, 43073), (73, 43046), (99, 42914), (100, 42911), (108, 42851),

Gene: LostAndPhound_49 Start: 43500, Stop: 42880, Start Num: 21

Candidate Starts for LostAndPhound_49:

(Start: 21 @43500 has 310 MA's), (34, 43404), (51, 43302), (52, 43299), (54, 43293), (58, 43269), (61, 43260), (66, 43227), (73, 43200), (99, 43068), (100, 43065), (108, 43005),

Gene: LuckyMarjie_49 Start: 43488, Stop: 42868, Start Num: 21

Candidate Starts for LuckyMarjie_49:

(Start: 21 @43488 has 310 MA's), (34, 43392), (51, 43290), (52, 43287), (54, 43281), (58, 43257), (61, 43248), (66, 43215), (73, 43188), (99, 43056), (100, 43053), (108, 42993),

Gene: Lulumae_49 Start: 43473, Stop: 42853, Start Num: 21

Candidate Starts for Lulumae_49:

(Start: 21 @43473 has 310 MA's), (34, 43377), (51, 43275), (52, 43272), (54, 43266), (58, 43242), (61, 43233), (66, 43200), (73, 43173), (99, 43041), (100, 43038), (108, 42978),

Gene: Lulwa_50 Start: 43766, Stop: 43146, Start Num: 21

Candidate Starts for Lulwa_50:

(Start: 21 @43766 has 310 MA's), (34, 43670), (51, 43568), (52, 43565), (54, 43559), (58, 43535), (61, 43526), (66, 43493), (73, 43466), (99, 43334), (100, 43331), (108, 43271),

Gene: Lumine_49 Start: 43469, Stop: 42849, Start Num: 21

Candidate Starts for Lumine_49:

(Start: 21 @43469 has 310 MA's), (34, 43373), (51, 43271), (52, 43268), (54, 43262), (58, 43238), (61, 43229), (66, 43196), (73, 43169), (99, 43037), (100, 43034), (108, 42974),

Gene: MRabcd_49 Start: 43479, Stop: 42859, Start Num: 21

Candidate Starts for MRabcd_49:

(Start: 21 @43479 has 310 MA's), (34, 43383), (51, 43281), (52, 43278), (54, 43272), (58, 43248), (61, 43239), (66, 43206), (73, 43179), (99, 43047), (100, 43044), (108, 42984),

Gene: Mag7_49 Start: 43403, Stop: 42783, Start Num: 21

Candidate Starts for Mag7_49:

(Start: 21 @43403 has 310 MA's), (34, 43307), (51, 43205), (52, 43202), (54, 43196), (58, 43172), (61, 43163), (66, 43130), (73, 43103), (99, 42971), (100, 42968), (108, 42908),

Gene: Magic8_50 Start: 43838, Stop: 43218, Start Num: 21

Candidate Starts for Magic8_50:

(Start: 21 @43838 has 310 MA's), (34, 43742), (51, 43640), (52, 43637), (54, 43631), (58, 43607), (61, 43598), (66, 43565), (73, 43538), (99, 43406), (100, 43403), (108, 43343),

Gene: Magpie_44 Start: 44170, Stop: 43559, Start Num: 21

Candidate Starts for Magpie_44:

(Start: 21 @44170 has 310 MA's), (34, 44080), (54, 43966), (58, 43942), (62, 43930), (71, 43879), (90, 43792), (95, 43768), (98, 43747), (99, 43744), (111, 43669),

Gene: Mahdia_29 Start: 23020, Stop: 22475, Start Num: 25

Candidate Starts for Mahdia_29:

(Start: 25 @23020 has 5 MA's), (44, 22903), (56, 22864), (77, 22753), (102, 22648), (106, 22621), (107, 22603), (108, 22600), (109, 22597), (122, 22513),

Gene: MakoManhole_46 Start: 38880, Stop: 38386, Start Num: 32

Candidate Starts for MakoManhole_46:

(Start: 32 @38880 has 50 MA's), (50, 38781), (60, 38739), (69, 38700), (72, 38688), (75, 38667), (77, 38655), (87, 38619), (93, 38595), (98, 38559), (100, 38553), (108, 38490), (113, 38472),

Gene: Mana_49 Start: 43488, Stop: 42868, Start Num: 21

Candidate Starts for Mana_49:

(Start: 21 @43488 has 310 MA's), (34, 43392), (51, 43290), (52, 43287), (54, 43281), (58, 43257), (61, 43248), (66, 43215), (73, 43188), (99, 43056), (100, 43053), (108, 42993),

Gene: Manad_50 Start: 43748, Stop: 43128, Start Num: 21

Candidate Starts for Manad_50:

(Start: 21 @43748 has 310 MA's), (34, 43652), (37, 43625), (51, 43550), (52, 43547), (54, 43541), (58, 43517), (61, 43508), (66, 43475), (73, 43448), (99, 43316), (100, 43313), (108, 43253),

Gene: Mariokart_43 Start: 36418, Stop: 35924, Start Num: 32

Candidate Starts for Mariokart_43:

(Start: 32 @36418 has 50 MA's), (53, 36313), (69, 36238), (72, 36226), (75, 36205), (77, 36193), (93, 36139), (96, 36115), (98, 36103), (100, 36097), (105, 36061), (107, 36040), (113, 36019), (124, 35938),

Gene: Marley1013_48 Start: 43994, Stop: 43449, Start Num: 26

Candidate Starts for Marley1013_48:

(Start: 26 @43994 has 46 MA's), (55, 43844), (74, 43757), (75, 43742), (77, 43730), (87, 43700), (92, 43679), (98, 43640), (100, 43634), (101, 43625), (105, 43598),

Gene: Maru_49 Start: 43431, Stop: 42811, Start Num: 21

Candidate Starts for Maru_49:

(Start: 21 @43431 has 310 MA's), (34, 43335), (51, 43233), (52, 43230), (54, 43224), (58, 43200), (61, 43191), (66, 43158), (73, 43131), (99, 42999), (100, 42996), (108, 42936),

Gene: Maskar_50 Start: 43469, Stop: 42849, Start Num: 21

Candidate Starts for Maskar_50:

(Start: 21 @43469 has 310 MA's), (34, 43373), (51, 43271), (52, 43268), (54, 43262), (58, 43238), (61, 43229), (66, 43196), (73, 43169), (99, 43037), (100, 43034), (108, 42974),

Gene: MasterPo_49 Start: 43490, Stop: 42963, Start Num: 32

Candidate Starts for MasterPo_49:

(23, 43580), (Start: 32 @43490 has 50 MA's), (77, 43247), (87, 43217), (88, 43214), (90, 43202), (92, 43196), (98, 43157), (100, 43151), (103, 43136), (120, 43004),

Gene: Matalotodo_50 Start: 43783, Stop: 43163, Start Num: 21

Candidate Starts for Matalotodo_50:

(Start: 21 @43783 has 310 MA's), (34, 43687), (51, 43585), (52, 43582), (54, 43576), (58, 43552), (61, 43543), (66, 43510), (73, 43483), (99, 43351), (100, 43348), (108, 43288),

Gene: Mcshane_49 Start: 43480, Stop: 42860, Start Num: 21

Candidate Starts for Mcshane_49:

(Start: 21 @43480 has 310 MA's), (34, 43384), (51, 43282), (52, 43279), (54, 43273), (58, 43249), (61, 43240), (66, 43207), (73, 43180), (99, 43048), (100, 43045), (108, 42985),

Gene: Mecca_49 Start: 43486, Stop: 42866, Start Num: 21

Candidate Starts for Mecca_49:

(Start: 21 @43486 has 310 MA's), (34, 43390), (51, 43288), (52, 43285), (54, 43279), (58, 43255), (61, 43246), (66, 43213), (73, 43186), (99, 43054), (100, 43051), (108, 42991),

Gene: Megamind20_50 Start: 43508, Stop: 42888, Start Num: 21

Candidate Starts for Megamind20_50:

(Start: 21 @43508 has 310 MA's), (34, 43412), (51, 43310), (52, 43307), (54, 43301), (58, 43277), (61, 43268), (66, 43235), (73, 43208), (99, 43076), (100, 43073), (108, 43013),

Gene: Megatron_51 Start: 43916, Stop: 43296, Start Num: 21

Candidate Starts for Megatron_51:

(Start: 21 @43916 has 310 MA's), (34, 43820), (51, 43718), (52, 43715), (54, 43709), (58, 43685), (61, 43676), (66, 43643), (73, 43616), (99, 43484), (100, 43481), (108, 43421),

Gene: Melc17_50 Start: 43778, Stop: 43158, Start Num: 21

Candidate Starts for Melc17_50:

(Start: 21 @43778 has 310 MA's), (34, 43682), (51, 43580), (52, 43577), (54, 43571), (58, 43547), (61, 43538), (66, 43505), (73, 43478), (99, 43346), (100, 43343), (108, 43283),

Gene: MelsMeow_50 Start: 43522, Stop: 42902, Start Num: 21

Candidate Starts for MelsMeow_50:

(Start: 21 @43522 has 310 MA's), (34, 43426), (51, 43324), (52, 43321), (54, 43315), (58, 43291), (61, 43282), (66, 43249), (73, 43222), (99, 43090), (100, 43087), (108, 43027),

Gene: Mesh1_50 Start: 43795, Stop: 43175, Start Num: 21

Candidate Starts for Mesh1_50:

(9, 43909), (15, 43882), (19, 43870), (Start: 21 @43795 has 310 MA's), (34, 43699), (51, 43597), (52, 43594), (54, 43588), (58, 43564), (61, 43555), (66, 43522), (73, 43495), (99, 43363), (100, 43360), (108, 43300),

Gene: MichaelPhcott_49 Start: 43400, Stop: 42780, Start Num: 21

Candidate Starts for MichaelPhcott_49:

(Start: 21 @43400 has 310 MA's), (34, 43304), (51, 43202), (52, 43199), (54, 43193), (58, 43169), (61, 43160), (66, 43127), (73, 43100), (99, 42968), (100, 42965), (108, 42905),

Gene: Mikota_50 Start: 43766, Stop: 43146, Start Num: 21

Candidate Starts for Mikota_50:

(Start: 21 @43766 has 310 MA's), (34, 43670), (51, 43568), (52, 43565), (54, 43559), (58, 43535), (61, 43526), (66, 43493), (73, 43466), (99, 43334), (100, 43331), (108, 43271),

Gene: MiniBoss_50 Start: 43772, Stop: 43152, Start Num: 21

Candidate Starts for MiniBoss_50:

(Start: 21 @43772 has 310 MA's), (34, 43676), (51, 43574), (52, 43571), (54, 43565), (58, 43541), (61, 43532), (66, 43499), (73, 43472), (99, 43340), (100, 43337), (108, 43277),

Gene: MitKao_50 Start: 43498, Stop: 42878, Start Num: 21

Candidate Starts for MitKao_50:

(Start: 21 @43498 has 310 MA's), (34, 43402), (51, 43300), (52, 43297), (54, 43291), (58, 43267), (61, 43258), (66, 43225), (73, 43198), (99, 43066), (100, 43063), (108, 43003),

Gene: Mithril_45 Start: 44338, Stop: 43727, Start Num: 21

Candidate Starts for Mithril_45:

(Start: 21 @44338 has 310 MA's), (34, 44248), (54, 44134), (58, 44110), (62, 44098), (71, 44047), (90, 43960), (95, 43936), (98, 43915), (99, 43912), (111, 43837), (112, 43834),

Gene: MmasiCarm_48 Start: 43198, Stop: 42653, Start Num: 26

Candidate Starts for MmasiCarm_48:

(Start: 26 @43198 has 46 MA's), (55, 43048), (74, 42961), (75, 42946), (77, 42934), (87, 42904), (92, 42883), (98, 42844), (100, 42838), (101, 42829), (105, 42802),

Gene: Morgushi_50 Start: 43487, Stop: 42867, Start Num: 21

Candidate Starts for Morgushi_50:

(Start: 21 @43487 has 310 MA's), (34, 43391), (51, 43289), (52, 43286), (54, 43280), (58, 43256), (61, 43247), (66, 43214), (73, 43187), (99, 43055), (100, 43052), (108, 42992),

Gene: Morrissey_30 Start: 24584, Stop: 24024, Start Num: 25

Candidate Starts for Morrissey_30:

(Start: 25 @24584 has 5 MA's), (42, 24458), (53, 24422), (69, 24347), (73, 24332), (77, 24302), (102, 24197), (108, 24149), (109, 24146), (112, 24134), (113, 24131), (122, 24062),

Gene: Mortcellus_47 Start: 43850, Stop: 43305, Start Num: 26

Candidate Starts for Mortcellus_47:

(Start: 26 @43850 has 46 MA's), (55, 43700), (74, 43613), (75, 43598), (77, 43586), (87, 43556), (92, 43535), (98, 43496), (100, 43490), (101, 43481), (105, 43454),

Gene: Morty_51 Start: 43925, Stop: 43305, Start Num: 21

Candidate Starts for Morty_51:

(Start: 21 @43925 has 310 MA's), (34, 43829), (51, 43727), (52, 43724), (54, 43718), (58, 43694), (61, 43685), (66, 43652), (73, 43625), (99, 43493), (100, 43490), (108, 43430),

Gene: Morty007_48 Start: 43994, Stop: 43449, Start Num: 26

Candidate Starts for Morty007_48:

(Start: 26 @43994 has 46 MA's), (55, 43844), (74, 43757), (75, 43742), (77, 43730), (87, 43700), (92, 43679), (98, 43640), (100, 43634), (101, 43625), (105, 43598),

Gene: Mosaic_49 Start: 43492, Stop: 42872, Start Num: 21

Candidate Starts for Mosaic_49:

(Start: 21 @43492 has 310 MA's), (34, 43396), (51, 43294), (52, 43291), (54, 43285), (58, 43261), (61, 43252), (66, 43219), (73, 43192), (99, 43060), (100, 43057), (108, 42997),

Gene: MossRose_46 Start: 38859, Stop: 38365, Start Num: 32

Candidate Starts for MossRose_46:

(Start: 32 @38859 has 50 MA's), (50, 38760), (60, 38718), (69, 38679), (72, 38667), (75, 38646), (77, 38634), (87, 38598), (93, 38574), (98, 38538), (100, 38532), (108, 38469), (113, 38451),

Gene: MrPhizzler_49 Start: 43489, Stop: 42869, Start Num: 21

Candidate Starts for MrPhizzler_49:

(Start: 21 @43489 has 310 MA's), (34, 43393), (51, 43291), (52, 43288), (54, 43282), (58, 43258), (61, 43249), (66, 43216), (73, 43189), (99, 43057), (100, 43054), (108, 42994),

Gene: Mudslide_45 Start: 44597, Stop: 43983, Start Num: 21

Candidate Starts for Mudslide_45:

(Start: 21 @44597 has 310 MA's), (34, 44504), (54, 44390), (58, 44366), (62, 44354), (71, 44303), (90, 44216), (95, 44192), (98, 44171), (99, 44168), (111, 44093),

Gene: Mulan_50 Start: 43642, Stop: 43022, Start Num: 21

Candidate Starts for Mulan_50:

(Start: 21 @43642 has 310 MA's), (34, 43546), (51, 43444), (52, 43441), (54, 43435), (58, 43411), (61, 43402), (66, 43369), (73, 43342), (99, 43210), (100, 43207), (108, 43147),

Gene: Murdoc_50 Start: 43773, Stop: 43153, Start Num: 21

Candidate Starts for Murdoc_50:

(Start: 21 @43773 has 310 MA's), (34, 43677), (51, 43575), (52, 43572), (54, 43566), (58, 43542), (61, 43533), (66, 43500), (73, 43473), (99, 43341), (100, 43338), (108, 43278),

Gene: Mutante_49 Start: 43492, Stop: 42872, Start Num: 21

Candidate Starts for Mutante_49:

(Start: 21 @43492 has 310 MA's), (34, 43396), (51, 43294), (52, 43291), (54, 43285), (58, 43261), (61, 43252), (66, 43219), (73, 43192), (99, 43060), (100, 43057), (108, 42997),

Gene: Mysterious_50 Start: 44824, Stop: 44207, Start Num: 21

Candidate Starts for Mysterious_50:

(Start: 21 @44824 has 310 MA's), (35, 44692), (52, 44584), (58, 44554), (99, 44395), (105, 44356), (108, 44332), (114, 44281), (117, 44272),

Gene: NHagos_44 Start: 37460, Stop: 36969, Start Num: 32

Candidate Starts for NHagos_44:

(Start: 32 @37460 has 50 MA's), (69, 37280), (72, 37268), (77, 37235), (88, 37202), (90, 37190), (91, 37187), (98, 37148), (105, 37106), (113, 37064), (120, 37001),

Gene: Nacho_0051 Start: 43919, Stop: 43299, Start Num: 21

Candidate Starts for Nacho_0051:

(Start: 21 @43919 has 310 MA's), (34, 43823), (51, 43721), (52, 43718), (54, 43712), (58, 43688), (61, 43679), (66, 43646), (73, 43619), (99, 43487), (100, 43484), (108, 43424),

Gene: Nanao_44 Start: 43297, Stop: 42689, Start Num: 21

Candidate Starts for Nanao_44:

(Start: 21 @43297 has 310 MA's), (34, 43207), (54, 43093), (58, 43069), (62, 43057), (71, 43006), (90, 42919), (95, 42895), (98, 42874), (99, 42871), (112, 42793),

Gene: Nangang_49 Start: 44779, Stop: 44177, Start Num: 21

Candidate Starts for Nangang_49:

(Start: 21 @44779 has 310 MA's), (35, 44659), (52, 44551), (54, 44545), (58, 44521), (95, 44386), (98, 44365), (105, 44323), (108, 44299), (116, 44242),

Gene: Nehemiah_49 Start: 44824, Stop: 44207, Start Num: 21

Candidate Starts for Nehemiah_49:

(Start: 21 @44824 has 310 MA's), (35, 44692), (52, 44584), (58, 44554), (99, 44395), (105, 44356), (108, 44332), (114, 44281), (117, 44272),

Gene: Neos5_48 Start: 44009, Stop: 43464, Start Num: 26

Candidate Starts for Neos5_48:

(Start: 26 @44009 has 46 MA's), (55, 43859), (74, 43772), (75, 43757), (77, 43745), (87, 43715), (92, 43694), (98, 43655), (100, 43649), (101, 43640), (105, 43613),

Gene: Newman_50 Start: 43790, Stop: 43170, Start Num: 21

Candidate Starts for Newman_50:

(Start: 21 @43790 has 310 MA's), (34, 43694), (37, 43667), (51, 43592), (52, 43589), (54, 43583), (58, 43559), (61, 43550), (66, 43517), (73, 43490), (99, 43358), (100, 43355), (108, 43295),

Gene: Nicole21_50 Start: 43794, Stop: 43174, Start Num: 21

Candidate Starts for Nicole21_50:

(Start: 21 @43794 has 310 MA's), (34, 43698), (51, 43596), (52, 43593), (54, 43587), (58, 43563), (61, 43554), (66, 43521), (73, 43494), (99, 43362), (100, 43359), (108, 43299),

Gene: Nigel_44 Start: 43182, Stop: 42571, Start Num: 21

Candidate Starts for Nigel_44:

(Start: 21 @43182 has 310 MA's), (34, 43092), (51, 42987), (54, 42978), (58, 42954), (62, 42942), (79, 42849), (90, 42804), (95, 42780), (98, 42759), (99, 42756), (109, 42690), (112, 42678),

Gene: Nozo_48 Start: 43974, Stop: 43429, Start Num: 26

Candidate Starts for Nozo_48:

(Start: 26 @43974 has 46 MA's), (47, 43845), (55, 43824), (74, 43737), (75, 43722), (77, 43710), (87, 43680), (92, 43659), (98, 43620), (100, 43614), (101, 43605), (105, 43578),

Gene: Numberten_50 Start: 43785, Stop: 43165, Start Num: 21

Candidate Starts for Numberten_50:

(Start: 21 @43785 has 310 MA's), (34, 43689), (51, 43587), (52, 43584), (54, 43578), (58, 43554), (61, 43545), (66, 43512), (73, 43485), (99, 43353), (100, 43350), (108, 43290),

Gene: Nyala_49 Start: 43484, Stop: 42864, Start Num: 21

Candidate Starts for Nyala_49:

(Start: 21 @43484 has 310 MA's), (34, 43388), (51, 43286), (52, 43283), (54, 43277), (58, 43253), (61, 43244), (66, 43211), (73, 43184), (99, 43052), (100, 43049), (108, 42989),

Gene: OSmaximus_51 Start: 43958, Stop: 43338, Start Num: 21

Candidate Starts for OSmaximus_51:

(Start: 21 @43958 has 310 MA's), (34, 43862), (51, 43760), (52, 43757), (54, 43751), (58, 43727), (61, 43718), (66, 43685), (73, 43658), (99, 43526), (100, 43523), (108, 43463),

Gene: Obutu_48 Start: 43198, Stop: 42653, Start Num: 26

Candidate Starts for Obutu_48:

(Start: 26 @43198 has 46 MA's), (55, 43048), (74, 42961), (75, 42946), (77, 42934), (87, 42904), (92, 42883), (98, 42844), (100, 42838), (101, 42829), (105, 42802),

Gene: Olak_49 Start: 43487, Stop: 42867, Start Num: 21

Candidate Starts for Olak_49:

(Start: 21 @43487 has 310 MA's), (34, 43391), (51, 43289), (52, 43286), (54, 43280), (58, 43256), (61, 43247), (66, 43214), (73, 43187), (99, 43055), (100, 43052), (108, 42992),

Gene: Oline_49 Start: 43347, Stop: 42727, Start Num: 21

Candidate Starts for Oline_49:

(Start: 21 @43347 has 310 MA's), (34, 43251), (51, 43149), (52, 43146), (54, 43140), (58, 43116), (61, 43107), (66, 43074), (73, 43047), (99, 42915), (100, 42912), (108, 42852),

Gene: Olive_50 Start: 43774, Stop: 43154, Start Num: 21

Candidate Starts for Olive_50:

(Start: 21 @43774 has 310 MA's), (34, 43678), (51, 43576), (52, 43573), (54, 43567), (58, 43543), (61, 43534), (66, 43501), (73, 43474), (99, 43342), (100, 43339), (108, 43279),

Gene: OliverWalter_50 Start: 43796, Stop: 43176, Start Num: 21

Candidate Starts for OliverWalter_50:

(Start: 21 @43796 has 310 MA's), (34, 43700), (51, 43598), (52, 43595), (54, 43589), (58, 43565), (61, 43556), (66, 43523), (73, 43496), (99, 43364), (100, 43361), (108, 43301),

Gene: Omniscient_50 Start: 43793, Stop: 43173, Start Num: 21

Candidate Starts for Omniscient_50:

(Start: 21 @43793 has 310 MA's), (34, 43697), (51, 43595), (52, 43592), (54, 43586), (58, 43562), (61, 43553), (66, 43520), (73, 43493), (99, 43361), (100, 43358), (108, 43298),

Gene: Oosterbaan_50 Start: 43781, Stop: 43161, Start Num: 21

Candidate Starts for Oosterbaan_50:

(Start: 21 @43781 has 310 MA's), (34, 43685), (51, 43583), (52, 43580), (54, 43574), (58, 43550), (61, 43541), (66, 43508), (73, 43481), (99, 43349), (100, 43346), (108, 43286),

Gene: Opia_49 Start: 43484, Stop: 42945, Start Num: 32

Candidate Starts for Opia_49:

(23, 43574), (Start: 32 @43484 has 50 MA's), (77, 43229), (87, 43199), (88, 43196), (90, 43184), (92, 43178), (98, 43139), (100, 43133), (103, 43118), (120, 42986), (125, 42965),

Gene: OrangeOswald_48 Start: 43215, Stop: 42670, Start Num: 26

Candidate Starts for OrangeOswald_48:

(Start: 26 @43215 has 46 MA's), (47, 43086), (55, 43065), (74, 42978), (75, 42963), (77, 42951), (87, 42921), (92, 42900), (98, 42861), (100, 42855), (101, 42846), (105, 42819),

Gene: Orfeu_49 Start: 43480, Stop: 42860, Start Num: 21

Candidate Starts for Orfeu_49:

(Start: 21 @43480 has 310 MA's), (34, 43384), (51, 43282), (52, 43279), (54, 43273), (58, 43249), (61, 43240), (66, 43207), (73, 43180), (99, 43048), (100, 43045), (108, 42985),

Gene: Orion_51 Start: 43914, Stop: 43294, Start Num: 21

Candidate Starts for Orion_51:

(Start: 21 @43914 has 310 MA's), (34, 43818), (51, 43716), (52, 43713), (54, 43707), (58, 43683), (61, 43674), (66, 43641), (73, 43614), (99, 43482), (100, 43479), (108, 43419),

Gene: Orwigg_51 Start: 43480, Stop: 42860, Start Num: 21

Candidate Starts for Orwigg_51:

(Start: 21 @43480 has 310 MA's), (34, 43384), (51, 43282), (52, 43279), (54, 43273), (58, 43249), (61, 43240), (66, 43207), (73, 43180), (99, 43048), (100, 43045), (108, 42985),

Gene: PG1_51 Start: 43927, Stop: 43307, Start Num: 21

Candidate Starts for PG1_51:

(Start: 21 @43927 has 310 MA's), (34, 43831), (51, 43729), (52, 43726), (54, 43720), (58, 43696), (61, 43687), (66, 43654), (73, 43627), (99, 43495), (100, 43492), (108, 43432),

Gene: Pacifista_49 Start: 43483, Stop: 42863, Start Num: 21

Candidate Starts for Pacifista_49:

(Start: 21 @43483 has 310 MA's), (34, 43387), (51, 43285), (52, 43282), (54, 43276), (58, 43252), (61, 43243), (66, 43210), (73, 43183), (99, 43051), (100, 43048), (108, 42988),

Gene: PenguinLover67_51 Start: 45911, Stop: 45282, Start Num: 21

Candidate Starts for PenguinLover67_51:

(Start: 21 @45911 has 310 MA's), (31, 45830), (48, 45713), (52, 45701), (54, 45695), (58, 45671), (73, 45599), (79, 45563), (83, 45542), (85, 45536), (95, 45491), (98, 45470), (104, 45446), (108, 45404),

Gene: Phaedrus_46 Start: 43135, Stop: 42590, Start Num: 26

Candidate Starts for Phaedrus_46:

(Start: 26 @43135 has 46 MA's), (47, 43006), (55, 42985), (74, 42898), (75, 42883), (77, 42871), (87, 42841), (92, 42820), (98, 42781), (100, 42775), (101, 42766), (105, 42739),

Gene: Phamished_51 Start: 43934, Stop: 43314, Start Num: 21

Candidate Starts for Phamished_51:

(Start: 21 @43934 has 310 MA's), (34, 43838), (51, 43736), (52, 43733), (54, 43727), (58, 43703), (61, 43694), (66, 43661), (73, 43634), (99, 43502), (100, 43499), (108, 43439),

Gene: Phantasmagoria_49 Start: 43482, Stop: 42958, Start Num: 32

Candidate Starts for Phantasmagoria_49:

(23, 43572), (Start: 32 @43482 has 50 MA's), (77, 43242), (87, 43212), (88, 43209), (90, 43197), (92, 43191), (98, 43152), (100, 43146), (103, 43131), (120, 42999), (125, 42978),

Gene: Phareon_50 Start: 43482, Stop: 42862, Start Num: 21

Candidate Starts for Phareon_50:

(Start: 21 @43482 has 310 MA's), (34, 43386), (51, 43284), (52, 43281), (54, 43275), (58, 43251), (61, 43242), (66, 43209), (73, 43182), (99, 43050), (100, 43047), (108, 42987),

Gene: PhatCats2014_51 Start: 43931, Stop: 43311, Start Num: 21

Candidate Starts for PhatCats2014_51:

(Start: 21 @43931 has 310 MA's), (34, 43835), (51, 43733), (52, 43730), (54, 43724), (58, 43700), (61, 43691), (66, 43658), (73, 43631), (99, 43499), (100, 43496), (108, 43436),

Gene: PhatLouie_50 Start: 43785, Stop: 43165, Start Num: 21

Candidate Starts for PhatLouie_50:

(Start: 21 @43785 has 310 MA's), (34, 43689), (51, 43587), (52, 43584), (54, 43578), (58, 43554), (61, 43545), (66, 43512), (73, 43485), (99, 43353), (100, 43350), (108, 43290),

Gene: Phayeta_49 Start: 43080, Stop: 42535, Start Num: 26

Candidate Starts for Phayeta_49:

(Start: 26 @43080 has 46 MA's), (55, 42930), (74, 42843), (75, 42828), (77, 42816), (87, 42786), (92, 42765), (98, 42726), (100, 42720), (101, 42711), (105, 42684),

Gene: Phelemich_48 Start: 44823, Stop: 44206, Start Num: 21

Candidate Starts for Phelemich_48:

(Start: 21 @44823 has 310 MA's), (35, 44691), (52, 44583), (58, 44553), (99, 44394), (105, 44355), (108, 44331), (114, 44280), (117, 44271),

Gene: PhenghisKhan_49 Start: 43406, Stop: 42786, Start Num: 21

Candidate Starts for PhenghisKhan_49:

(Start: 21 @43406 has 310 MA's), (34, 43310), (51, 43208), (52, 43205), (54, 43199), (58, 43175), (61, 43166), (66, 43133), (73, 43106), (99, 42974), (100, 42971), (108, 42911),

Gene: Pherdinand_51 Start: 43943, Stop: 43323, Start Num: 21

Candidate Starts for Pherdinand_51:

(Start: 21 @43943 has 310 MA's), (34, 43847), (51, 43745), (52, 43742), (54, 43736), (58, 43712), (61, 43703), (66, 43670), (73, 43643), (99, 43511), (100, 43508), (108, 43448),

Gene: Phergie_50 Start: 43398, Stop: 42778, Start Num: 21

Candidate Starts for Phergie_50:

(Start: 21 @43398 has 310 MA's), (34, 43302), (51, 43200), (52, 43197), (54, 43191), (58, 43167), (61, 43158), (66, 43125), (73, 43098), (99, 42966), (100, 42963), (108, 42903),

Gene: Philly_47 Start: 43066, Stop: 42521, Start Num: 26

Candidate Starts for Philly_47:

(Start: 26 @43066 has 46 MA's), (47, 42937), (55, 42916), (74, 42829), (75, 42814), (77, 42802), (87, 42772), (92, 42751), (98, 42712), (100, 42706), (101, 42697), (105, 42670),

Gene: Phipps_50 Start: 43762, Stop: 43142, Start Num: 21

Candidate Starts for Phipps_50:

(Start: 21 @43762 has 310 MA's), (34, 43666), (51, 43564), (52, 43561), (54, 43555), (58, 43531), (61, 43522), (66, 43489), (73, 43462), (99, 43330), (100, 43327), (108, 43267),

Gene: Phleuron_49 Start: 43403, Stop: 42783, Start Num: 21

Candidate Starts for Phleuron_49:

(Start: 21 @43403 has 310 MA's), (34, 43307), (51, 43205), (52, 43202), (54, 43196), (58, 43172), (61, 43163), (66, 43130), (73, 43103), (99, 42971), (100, 42968), (108, 42908),

Gene: Phlyer_48 Start: 43954, Stop: 43409, Start Num: 26

Candidate Starts for Phlyer_48:

(Start: 26 @43954 has 46 MA's), (55, 43804), (74, 43717), (75, 43702), (77, 43690), (87, 43660), (92, 43639), (98, 43600), (100, 43594), (101, 43585), (105, 43558),

Gene: PhrankReynolds_48 Start: 43403, Stop: 42783, Start Num: 21

Candidate Starts for PhrankReynolds_48:

(Start: 21 @43403 has 310 MA's), (34, 43307), (51, 43205), (52, 43202), (54, 43196), (58, 43172), (61, 43163), (66, 43130), (73, 43103), (99, 42971), (100, 42968), (108, 42908),

Gene: PhrodoBaggins_50 Start: 43910, Stop: 43290, Start Num: 21

Candidate Starts for PhrodoBaggins_50:

(Start: 21 @43910 has 310 MA's), (34, 43814), (51, 43712), (52, 43709), (54, 43703), (58, 43679), (61, 43670), (66, 43637), (73, 43610), (99, 43478), (100, 43475), (108, 43415),

Gene: Phunky_50 Start: 43779, Stop: 43159, Start Num: 21

Candidate Starts for Phunky_50:

(Start: 21 @43779 has 310 MA's), (34, 43683), (51, 43581), (52, 43578), (54, 43572), (58, 43548), (61, 43539), (66, 43506), (73, 43479), (99, 43347), (100, 43344), (108, 43284),

Gene: Piglet_0050 Start: 43904, Stop: 43284, Start Num: 21

Candidate Starts for Piglet_0050:

(Start: 21 @43904 has 310 MA's), (34, 43808), (51, 43706), (52, 43703), (54, 43697), (58, 43673), (61, 43664), (66, 43631), (73, 43604), (99, 43472), (100, 43469), (108, 43409),

Gene: Pine5_41 Start: 34571, Stop: 33969, Start Num: 27

Candidate Starts for Pine5_41:

(27, 34571), (83, 34244), (89, 34223), (98, 34172), (121, 34010), (126, 33986),

Gene: PinheadLarry_50 Start: 43492, Stop: 42872, Start Num: 21

Candidate Starts for PinheadLarry_50:

(Start: 21 @43492 has 310 MA's), (34, 43396), (51, 43294), (52, 43291), (54, 43285), (58, 43261), (61, 43252), (66, 43219), (73, 43192), (99, 43060), (100, 43057), (108, 42997),

Gene: Pinkman_49 Start: 43341, Stop: 42721, Start Num: 21

Candidate Starts for Pinkman_49:

(Start: 21 @43341 has 310 MA's), (34, 43245), (51, 43143), (52, 43140), (54, 43134), (58, 43110), (61, 43101), (66, 43068), (73, 43041), (81, 42999), (99, 42909), (100, 42906), (108, 42846),

Gene: Pipefish_50 Start: 44607, Stop: 44062, Start Num: 26

Candidate Starts for Pipefish_50:

(Start: 26 @44607 has 46 MA's), (47, 44478), (55, 44457), (74, 44370), (75, 44355), (77, 44343), (87, 44313), (92, 44292), (98, 44253), (100, 44247), (101, 44238), (105, 44211),

Gene: Pipsqueak_50 Start: 43786, Stop: 43166, Start Num: 21

Candidate Starts for Pipsqueak_50:

(Start: 21 @43786 has 310 MA's), (34, 43690), (51, 43588), (52, 43585), (54, 43579), (58, 43555), (61, 43546), (66, 43513), (73, 43486), (99, 43354), (100, 43351), (108, 43291),

Gene: Placalicious_49 Start: 43479, Stop: 42859, Start Num: 21

Candidate Starts for Placalicious_49:

(Start: 21 @43479 has 310 MA's), (34, 43383), (51, 43281), (52, 43278), (54, 43272), (58, 43248), (61, 43239), (66, 43206), (73, 43179), (99, 43047), (100, 43044), (108, 42984),

Gene: Plmatters_50 Start: 43782, Stop: 43162, Start Num: 21

Candidate Starts for Plmatters_50:

(Start: 21 @43782 has 310 MA's), (34, 43686), (51, 43584), (52, 43581), (54, 43575), (58, 43551), (61, 43542), (66, 43509), (73, 43482), (99, 43350), (100, 43347), (108, 43287),

Gene: Podrick_50 Start: 43773, Stop: 43153, Start Num: 21

Candidate Starts for Podrick_50:

(Start: 21 @43773 has 310 MA's), (34, 43677), (51, 43575), (52, 43572), (54, 43566), (58, 43542), (61, 43533), (66, 43500), (73, 43473), (99, 43341), (100, 43338), (108, 43278),

Gene: Pops_50 Start: 43797, Stop: 43177, Start Num: 21

Candidate Starts for Pops_50:

(Start: 21 @43797 has 310 MA's), (34, 43701), (51, 43599), (52, 43596), (54, 43590), (58, 43566), (61, 43557), (66, 43524), (73, 43497), (99, 43365), (100, 43362), (108, 43302),

Gene: Poster_44 Start: 43298, Stop: 42690, Start Num: 21

Candidate Starts for Poster_44:

(Start: 21 @43298 has 310 MA's), (34, 43208), (54, 43094), (58, 43070), (62, 43058), (71, 43007), (90, 42920), (95, 42896), (98, 42875), (99, 42872), (112, 42794),

Gene: Potter_49 Start: 43509, Stop: 42889, Start Num: 21

Candidate Starts for Potter_49:

(Start: 21 @43509 has 310 MA's), (34, 43413), (51, 43311), (52, 43308), (54, 43302), (58, 43278), (61, 43269), (66, 43236), (73, 43209), (99, 43077), (100, 43074), (108, 43014),

Gene: Prickles_50 Start: 43773, Stop: 43153, Start Num: 21

Candidate Starts for Prickles_50:

(Start: 21 @43773 has 310 MA's), (34, 43677), (51, 43575), (52, 43572), (54, 43566), (58, 43542), (61, 43533), (66, 43500), (73, 43473), (99, 43341), (100, 43338), (108, 43278),

Gene: Prince_45 Start: 44507, Stop: 43893, Start Num: 21

Candidate Starts for Prince_45:

(Start: 21 @44507 has 310 MA's), (34, 44414), (54, 44300), (58, 44276), (62, 44264), (71, 44213), (90, 44126), (95, 44102), (98, 44081), (99, 44078), (111, 44003),

Gene: ProfessorX_50 Start: 43774, Stop: 43154, Start Num: 21

Candidate Starts for ProfessorX_50:

(Start: 21 @43774 has 310 MA's), (34, 43678), (51, 43576), (52, 43573), (54, 43567), (58, 43543), (61, 43534), (66, 43501), (73, 43474), (99, 43342), (100, 43339), (108, 43279),

Gene: Puhltonio_50 Start: 43783, Stop: 43163, Start Num: 21

Candidate Starts for Puhltonio_50:

(Start: 21 @43783 has 310 MA's), (34, 43687), (51, 43585), (52, 43582), (54, 43576), (58, 43552), (61, 43543), (66, 43510), (73, 43483), (99, 43351), (100, 43348), (108, 43288),

Gene: Puppies_29 Start: 23497, Stop: 22922, Start Num: 25

Candidate Starts for Puppies_29:

(24, 23515), (Start: 25 @23497 has 5 MA's), (59, 23302), (77, 23203), (88, 23173), (100, 23110), (109, 23044), (110, 23038), (119, 22969), (120, 22966),

Gene: QueenBeane_50 Start: 43773, Stop: 43153, Start Num: 21

Candidate Starts for QueenBeane_50:

(Start: 21 @43773 has 310 MA's), (34, 43677), (51, 43575), (52, 43572), (54, 43566), (58, 43542), (61, 43533), (66, 43500), (73, 43473), (99, 43341), (100, 43338), (108, 43278),

Gene: QueenPie_44 Start: 44416, Stop: 43805, Start Num: 21

Candidate Starts for QueenPie_44:

(Start: 21 @44416 has 310 MA's), (34, 44326), (54, 44212), (58, 44188), (62, 44176), (71, 44125), (90, 44038), (95, 44014), (98, 43993), (99, 43990), (112, 43912),

Gene: Quesadilla_51 Start: 45918, Stop: 45289, Start Num: 21

Candidate Starts for Quesadilla_51:

(Start: 21 @45918 has 310 MA's), (48, 45717), (54, 45699), (58, 45675), (85, 45540), (95, 45495), (98, 45474), (103, 45453), (108, 45408),

Gene: Quisquilliae_50 Start: 43810, Stop: 43190, Start Num: 21

Candidate Starts for Quisquilliae_50:

(Start: 21 @43810 has 310 MA's), (34, 43714), (51, 43612), (52, 43609), (54, 43603), (58, 43579), (61, 43570), (66, 43537), (73, 43510), (99, 43378), (100, 43375), (108, 43315),

Gene: Qyrzula_46 Start: 43601, Stop: 43104, Start Num: 32

Candidate Starts for Qyrzula_46:

(23, 43691), (Start: 32 @43601 has 50 MA's), (77, 43388), (87, 43358), (88, 43355), (90, 43343), (92, 43337), (98, 43298), (100, 43292), (103, 43277), (120, 43145), (125, 43124),

Gene: RagingRooster_48 Start: 43216, Stop: 42671, Start Num: 26

Candidate Starts for RagingRooster_48:

(Start: 26 @43216 has 46 MA's), (47, 43087), (55, 43066), (74, 42979), (75, 42964), (77, 42952), (87, 42922), (92, 42901), (98, 42862), (100, 42856), (101, 42847), (105, 42820),

Gene: RawrgerThat_46 Start: 44358, Stop: 43744, Start Num: 21

Candidate Starts for RawrgerThat_46:

(Start: 21 @44358 has 310 MA's), (34, 44265), (54, 44151), (58, 44127), (62, 44115), (71, 44064), (90, 43977), (95, 43953), (98, 43932), (99, 43929), (111, 43854),

Gene: RedMaple_50 Start: 43924, Stop: 43304, Start Num: 21

Candidate Starts for RedMaple_50:

(Start: 21 @43924 has 310 MA's), (34, 43828), (51, 43726), (52, 43723), (54, 43717), (58, 43693), (61, 43684), (66, 43651), (73, 43624), (99, 43492), (100, 43489), (108, 43429),

Gene: Reprobate_49 Start: 44828, Stop: 44211, Start Num: 21

Candidate Starts for Reprobate_49:

(Start: 21 @44828 has 310 MA's), (35, 44696), (52, 44588), (58, 44558), (99, 44399), (105, 44360), (108, 44336), (114, 44285), (117, 44276),

Gene: Rhinoforte_49 Start: 43603, Stop: 43079, Start Num: 32

Candidate Starts for Rhinoforte_49:

(23, 43693), (Start: 32 @43603 has 50 MA's), (77, 43363), (87, 43333), (88, 43330), (90, 43318), (92, 43312), (98, 43273), (100, 43267), (120, 43120),

Gene: Rich_48 Start: 44614, Stop: 44012, Start Num: 21

Candidate Starts for Rich_48:

(12, 44725), (Start: 21 @44614 has 310 MA's), (35, 44494), (52, 44386), (54, 44380), (58, 44356), (99, 44197), (105, 44158), (108, 44134), (114, 44083),

Gene: Ricotta_49 Start: 43496, Stop: 42876, Start Num: 21

Candidate Starts for Ricotta_49:

(Start: 21 @43496 has 310 MA's), (34, 43400), (51, 43298), (52, 43295), (54, 43289), (58, 43265), (61, 43256), (66, 43223), (73, 43196), (99, 43064), (100, 43061), (108, 43001),

Gene: Riggan_50 Start: 43769, Stop: 43149, Start Num: 21

Candidate Starts for Riggan_50:

(Start: 21 @43769 has 310 MA's), (34, 43673), (51, 43571), (52, 43568), (54, 43562), (58, 43538), (61, 43529), (66, 43496), (73, 43469), (99, 43337), (100, 43334), (108, 43274),

Gene: Rimu_52 Start: 43509, Stop: 42889, Start Num: 21

Candidate Starts for Rimu_52:

(Start: 21 @43509 has 310 MA's), (34, 43413), (51, 43311), (52, 43308), (54, 43302), (58, 43278), (61, 43269), (66, 43236), (73, 43209), (99, 43077), (100, 43074), (108, 43014),

Gene: Rinkes_50 Start: 45449, Stop: 44859, Start Num: 21

Candidate Starts for Rinkes_50:

(Start: 21 @45449 has 310 MA's), (33, 45347), (39, 45290), (40, 45278), (41, 45272), (48, 45245), (57, 45212), (58, 45203), (68, 45149), (73, 45128), (114, 44927), (117, 44918),

Gene: Rita1961_48 Start: 43199, Stop: 42654, Start Num: 26

Candidate Starts for Rita1961_48:

(Start: 26 @43199 has 46 MA's), (55, 43049), (74, 42962), (75, 42947), (77, 42935), (87, 42905), (92, 42884), (98, 42845), (100, 42839), (101, 42830), (105, 42803),

Gene: Robyn_49 Start: 43365, Stop: 42745, Start Num: 21

Candidate Starts for Robyn_49:

(Start: 21 @43365 has 310 MA's), (34, 43269), (51, 43167), (52, 43164), (54, 43158), (58, 43134), (61, 43125), (66, 43092), (73, 43065), (99, 42933), (100, 42930), (108, 42870),

Gene: Roliet_50 Start: 43782, Stop: 43162, Start Num: 21

Candidate Starts for Roliet_50:

(Start: 21 @43782 has 310 MA's), (34, 43686), (51, 43584), (52, 43581), (54, 43575), (58, 43551), (61, 43542), (66, 43509), (73, 43482), (99, 43350), (100, 43347), (108, 43287),

Gene: RomaT_48 Start: 43989, Stop: 43444, Start Num: 26

Candidate Starts for RomaT_48:

(Start: 26 @43989 has 46 MA's), (55, 43839), (74, 43752), (75, 43737), (77, 43725), (87, 43695), (92, 43674), (98, 43635), (100, 43629), (101, 43620), (105, 43593),

Gene: Roscoe_51 Start: 44019, Stop: 43399, Start Num: 21

Candidate Starts for Roscoe_51:

(Start: 21 @44019 has 310 MA's), (34, 43923), (51, 43821), (52, 43818), (54, 43812), (58, 43788), (61, 43779), (66, 43746), (73, 43719), (99, 43587), (100, 43584), (108, 43524),

Gene: Rosebush_48 Start: 43615, Stop: 43076, Start Num: 32

Candidate Starts for Rosebush_48:

(23, 43705), (Start: 32 @43615 has 50 MA's), (77, 43360), (87, 43330), (88, 43327), (90, 43315), (92, 43309), (98, 43270), (100, 43264), (103, 43249), (120, 43117), (125, 43096),

Gene: Roy17_50 Start: 43473, Stop: 42853, Start Num: 21

Candidate Starts for Roy17_50:

(Start: 21 @43473 has 310 MA's), (34, 43377), (51, 43275), (52, 43272), (54, 43266), (58, 43242), (61, 43233), (66, 43200), (73, 43173), (99, 43041), (100, 43038), (108, 42978),

Gene: SDcharge11_50 Start: 43760, Stop: 43140, Start Num: 21

Candidate Starts for SDcharge11_50:

(Start: 21 @43760 has 310 MA's), (34, 43664), (51, 43562), (52, 43559), (54, 43553), (58, 43529), (61, 43520), (66, 43487), (73, 43460), (81, 43418), (99, 43328), (100, 43325), (108, 43265),

Gene: Sabella_48 Start: 43475, Stop: 42951, Start Num: 32

Candidate Starts for Sabella_48:

(23, 43565), (Start: 32 @43475 has 50 MA's), (77, 43235), (87, 43205), (88, 43202), (90, 43190), (92, 43184), (98, 43145), (100, 43139), (103, 43124), (120, 42992), (125, 42971),

Gene: Saguaro_51 Start: 45544, Stop: 44918, Start Num: 21

Candidate Starts for Saguaro_51:

(2, 45787), (3, 45754), (Start: 21 @45544 has 310 MA's), (48, 45355), (52, 45343), (54, 45337), (58, 45313), (66, 45268), (79, 45205), (84, 45181), (85, 45178), (92, 45151), (98, 45112), (100, 45106), (104, 45088), (108, 45046), (117, 44986),

Gene: Samaymay_50 Start: 43773, Stop: 43153, Start Num: 21

Candidate Starts for Samaymay_50:

(Start: 21 @43773 has 310 MA's), (34, 43677), (51, 43575), (52, 43572), (54, 43566), (58, 43542), (61, 43533), (66, 43500), (73, 43473), (99, 43341), (100, 43338), (108, 43278),

Gene: SassyCat97_49 Start: 43500, Stop: 42880, Start Num: 21

Candidate Starts for SassyCat97_49:

(Start: 21 @43500 has 310 MA's), (34, 43404), (51, 43302), (52, 43299), (54, 43293), (58, 43269), (61, 43260), (66, 43227), (73, 43200), (99, 43068), (100, 43065), (108, 43005),

Gene: Schadenfreude_49 Start: 43339, Stop: 42719, Start Num: 21

Candidate Starts for Schadenfreude_49:

(Start: 21 @43339 has 310 MA's), (34, 43243), (51, 43141), (52, 43138), (54, 43132), (58, 43108), (61, 43099), (66, 43066), (73, 43039), (99, 42907), (100, 42904), (108, 42844),

Gene: Schueller_50 Start: 43498, Stop: 42878, Start Num: 21

Candidate Starts for Schueller_50:

(Start: 21 @43498 has 310 MA's), (34, 43402), (51, 43300), (52, 43297), (54, 43291), (58, 43267), (61, 43258), (66, 43225), (73, 43198), (99, 43066), (100, 43063), (108, 43003),

Gene: Scoot17C_51 Start: 43916, Stop: 43296, Start Num: 21

Candidate Starts for Scoot17C_51:

(Start: 21 @43916 has 310 MA's), (34, 43820), (51, 43718), (52, 43715), (54, 43709), (58, 43685), (61, 43676), (66, 43643), (73, 43616), (99, 43484), (100, 43481), (108, 43421),

Gene: Scrick_50 Start: 43509, Stop: 42889, Start Num: 21

Candidate Starts for Scrick_50:

(Start: 21 @43509 has 310 MA's), (34, 43413), (51, 43311), (52, 43308), (54, 43302), (58, 43278), (61, 43269), (66, 43236), (73, 43209), (99, 43077), (100, 43074), (108, 43014),

Gene: Selr12_50 Start: 43512, Stop: 42892, Start Num: 21

Candidate Starts for Selr12_50:

(Start: 21 @43512 has 310 MA's), (34, 43416), (51, 43314), (52, 43311), (54, 43305), (58, 43281), (61, 43272), (66, 43239), (73, 43212), (99, 43080), (100, 43077), (108, 43017),

Gene: Serendipitous_49 Start: 44529, Stop: 43927, Start Num: 21

Candidate Starts for Serendipitous_49:

(Start: 21 @44529 has 310 MA's), (35, 44409), (52, 44301), (54, 44295), (58, 44271), (67, 44223), (73, 44199), (95, 44136), (105, 44073), (108, 44049),

Gene: Serendipity_50 Start: 43797, Stop: 43177, Start Num: 21

Candidate Starts for Serendipity_50:

(Start: 21 @43797 has 310 MA's), (34, 43701), (51, 43599), (52, 43596), (54, 43590), (58, 43566), (61, 43557), (66, 43524), (73, 43497), (99, 43365), (100, 43362), (108, 43302),

Gene: Serpentine_0050 Start: 43796, Stop: 43176, Start Num: 21

Candidate Starts for Serpentine_0050:

(Start: 21 @43796 has 310 MA's), (34, 43700), (51, 43598), (52, 43595), (54, 43589), (58, 43565), (61, 43556), (66, 43523), (73, 43496), (99, 43364), (100, 43361), (108, 43301),

Gene: Shatter_43 Start: 36579, Stop: 36085, Start Num: 32

Candidate Starts for Shatter_43:

(Start: 32 @36579 has 50 MA's), (77, 36354), (96, 36276), (98, 36264), (105, 36222), (113, 36180), (124, 36099),

Gene: Sheila_50 Start: 43822, Stop: 43202, Start Num: 21

Candidate Starts for Sheila_50:

(Start: 21 @43822 has 310 MA's), (34, 43726), (51, 43624), (52, 43621), (54, 43615), (58, 43591), (61, 43582), (66, 43549), (73, 43522), (99, 43390), (100, 43387), (108, 43327),

Gene: Shenyu_49 Start: 44779, Stop: 44177, Start Num: 21

Candidate Starts for Shenyu_49:

(Start: 21 @44779 has 310 MA's), (35, 44659), (52, 44551), (54, 44545), (58, 44521), (95, 44386), (98, 44365), (105, 44323), (108, 44299), (116, 44242),

Gene: ShiVal_50 Start: 43780, Stop: 43160, Start Num: 21

Candidate Starts for ShiVal_50:

(Start: 21 @43780 has 310 MA's), (34, 43684), (51, 43582), (52, 43579), (54, 43573), (58, 43549), (61, 43540), (66, 43507), (73, 43480), (99, 43348), (100, 43345), (108, 43285),

Gene: Sigman_51 Start: 43907, Stop: 43287, Start Num: 21

Candidate Starts for Sigman_51:

(Start: 21 @43907 has 310 MA's), (34, 43811), (51, 43709), (52, 43706), (54, 43700), (58, 43676), (61, 43667), (66, 43634), (73, 43607), (99, 43475), (100, 43472), (108, 43412),

Gene: SilverBell_50 Start: 43802, Stop: 43182, Start Num: 21

Candidate Starts for SilverBell_50:

(8, 43916), (14, 43889), (18, 43877), (Start: 21 @43802 has 310 MA's), (34, 43706), (51, 43604), (52, 43601), (54, 43595), (58, 43571), (61, 43562), (66, 43529), (73, 43502), (99, 43370), (100, 43367), (108, 43307),

Gene: Simielle_49 Start: 43466, Stop: 42846, Start Num: 21

Candidate Starts for Simielle_49:

(Start: 21 @43466 has 310 MA's), (34, 43370), (51, 43268), (52, 43265), (54, 43259), (58, 43235), (61, 43226), (66, 43193), (73, 43166), (99, 43034), (100, 43031), (108, 42971),

Gene: SirJeffery_49 Start: 44703, Stop: 44098, Start Num: 21

Candidate Starts for SirJeffery_49:

(Start: 21 @44703 has 310 MA's), (35, 44580), (52, 44472), (54, 44466), (58, 44442), (105, 44244), (108, 44220), (116, 44163),

Gene: Sisko_43 Start: 37419, Stop: 36922, Start Num: 32

Candidate Starts for Sisko_43:

(Start: 32 @37419 has 50 MA's), (69, 37236), (72, 37224), (75, 37203), (77, 37191), (98, 37101), (100, 37095), (105, 37059), (107, 37038), (113, 37017),

Gene: Skippy_50 Start: 43767, Stop: 43147, Start Num: 21

Candidate Starts for Skippy_50:

(Start: 21 @43767 has 310 MA's), (34, 43671), (51, 43569), (52, 43566), (54, 43560), (58, 43536), (61, 43527), (66, 43494), (73, 43467), (99, 43335), (100, 43332), (108, 43272),

Gene: Slatt_50 Start: 43793, Stop: 43173, Start Num: 21

Candidate Starts for Slatt_50:

(Start: 21 @43793 has 310 MA's), (34, 43697), (51, 43595), (52, 43592), (54, 43586), (58, 43562), (61, 43553), (66, 43520), (73, 43493), (99, 43361), (100, 43358), (108, 43298),

Gene: SlippinJimmy_48 Start: 43981, Stop: 43436, Start Num: 26

Candidate Starts for SlippinJimmy_48:

(Start: 26 @43981 has 46 MA's), (55, 43831), (74, 43744), (75, 43729), (77, 43717), (87, 43687), (92, 43666), (98, 43627), (100, 43621), (101, 43612), (105, 43585),

Gene: Soile_50 Start: 43496, Stop: 42876, Start Num: 21

Candidate Starts for Soile_50:

(Start: 21 @43496 has 310 MA's), (34, 43400), (51, 43298), (52, 43295), (54, 43289), (58, 43265), (61, 43256), (66, 43223), (73, 43196), (99, 43064), (100, 43061), (108, 43001),

Gene: Solosis_49 Start: 43494, Stop: 42874, Start Num: 21

Candidate Starts for Solosis_49:

(Start: 21 @43494 has 310 MA's), (34, 43398), (51, 43296), (52, 43293), (54, 43287), (58, 43263), (61, 43254), (66, 43221), (73, 43194), (99, 43062), (100, 43059), (108, 42999),

Gene: Sophia_49 Start: 43488, Stop: 42868, Start Num: 21

Candidate Starts for Sophia_49:

(Start: 21 @43488 has 310 MA's), (34, 43392), (51, 43290), (52, 43287), (54, 43281), (58, 43257), (61, 43248), (66, 43215), (73, 43188), (99, 43056), (100, 43053), (108, 42993),

Gene: Soto_50 Start: 43794, Stop: 43174, Start Num: 21

Candidate Starts for Soto_50:

(Start: 21 @43794 has 310 MA's), (34, 43698), (51, 43596), (52, 43593), (54, 43587), (58, 43563), (61, 43554), (66, 43521), (73, 43494), (81, 43452), (99, 43362), (100, 43359), (108, 43299),

Gene: Sour_48 Start: 41266, Stop: 40751, Start Num: 30

Candidate Starts for Sour_48:

(Start: 30 @41266 has 1 MA's), (Start: 32 @41257 has 50 MA's), (69, 41065), (72, 41053), (77, 41020), (88, 40987), (93, 40966), (98, 40930), (105, 40888), (113, 40846), (122, 40777),

Gene: Spartan300_50 Start: 43779, Stop: 43159, Start Num: 21

Candidate Starts for Spartan300_50:

(Start: 21 @43779 has 310 MA's), (34, 43683), (51, 43581), (52, 43578), (54, 43572), (58, 43548), (61, 43539), (66, 43506), (73, 43479), (99, 43347), (100, 43344), (108, 43284),

Gene: Squid_50 Start: 43500, Stop: 42880, Start Num: 21

Candidate Starts for Squid_50:

(Start: 21 @43500 has 310 MA's), (34, 43404), (51, 43302), (52, 43299), (54, 43293), (58, 43269), (61, 43260), (66, 43227), (73, 43200), (99, 43068), (100, 43065), (108, 43005),

Gene: Squiggle_50 Start: 43503, Stop: 42883, Start Num: 21

Candidate Starts for Squiggle_50:

(Start: 21 @43503 has 310 MA's), (34, 43407), (51, 43305), (52, 43302), (54, 43296), (58, 43272), (61, 43263), (66, 43230), (73, 43203), (99, 43071), (100, 43068), (108, 43008),

Gene: StAugustine_67 Start: 52426, Stop: 51896, Start Num: 33

Candidate Starts for StAugustine_67:

(33, 52426), (54, 52306), (58, 52282), (64, 52249), (74, 52213), (78, 52186), (79, 52183), (86, 52153), (87, 52150), (98, 52093), (120, 51946),

Gene: Stinger_44 Start: 42875, Stop: 42267, Start Num: 21

Candidate Starts for Stinger_44:

(7, 43013), (10, 42983), (13, 42968), (Start: 21 @42875 has 310 MA's), (34, 42785), (54, 42671), (58, 42647), (62, 42635), (90, 42497), (95, 42473), (97, 42461), (98, 42452), (99, 42449), (112, 42371),

Gene: StinkyVeggy_50 Start: 44848, Stop: 44249, Start Num: 21

Candidate Starts for StinkyVeggy_50:

(12, 44956), (Start: 21 @44848 has 310 MA's), (35, 44731), (52, 44623), (54, 44617), (58, 44593), (95, 44458), (105, 44395), (108, 44371), (116, 44314),

Gene: Struggle_49 Start: 43335, Stop: 42715, Start Num: 21

Candidate Starts for Struggle_49:

(Start: 21 @43335 has 310 MA's), (34, 43239), (51, 43137), (52, 43134), (54, 43128), (58, 43104), (61, 43095), (66, 43062), (73, 43035), (81, 42993), (99, 42903), (100, 42900), (108, 42840),

Gene: Suffolk_50 Start: 43784, Stop: 43164, Start Num: 21

Candidate Starts for Suffolk_50:

(Start: 21 @43784 has 310 MA's), (34, 43688), (51, 43586), (52, 43583), (54, 43577), (58, 43553), (61, 43544), (66, 43511), (73, 43484), (99, 43352), (100, 43349), (108, 43289),

Gene: Suigeneris_50 Start: 44705, Stop: 44103, Start Num: 21

Candidate Starts for Suigeneris_50:

(12, 44816), (Start: 21 @44705 has 310 MA's), (35, 44585), (52, 44477), (54, 44471), (58, 44447), (105, 44249), (108, 44225),

Gene: Surely_50 Start: 43790, Stop: 43170, Start Num: 21

Candidate Starts for Surely_50:

(Start: 21 @43790 has 310 MA's), (34, 43694), (51, 43592), (52, 43589), (54, 43583), (58, 43559), (61, 43550), (66, 43517), (73, 43490), (99, 43358), (100, 43355), (108, 43295),

Gene: Swiphy_52 Start: 43785, Stop: 43165, Start Num: 21

Candidate Starts for Swiphy_52:

(Start: 21 @43785 has 310 MA's), (34, 43689), (51, 43587), (52, 43584), (54, 43578), (58, 43554), (61, 43545), (66, 43512), (73, 43485), (99, 43353), (100, 43350), (108, 43290),

Gene: Swish_51 Start: 43929, Stop: 43309, Start Num: 21

Candidate Starts for Swish_51:

(Start: 21 @43929 has 310 MA's), (34, 43833), (51, 43731), (52, 43728), (54, 43722), (58, 43698), (61, 43689), (66, 43656), (73, 43629), (99, 43497), (100, 43494), (108, 43434),

Gene: SynergyX_48 Start: 43216, Stop: 42671, Start Num: 26

Candidate Starts for SynergyX_48:

(Start: 26 @43216 has 46 MA's), (47, 43087), (55, 43066), (74, 42979), (75, 42964), (77, 42952), (87, 42922), (92, 42901), (98, 42862), (100, 42856), (101, 42847), (105, 42820),

Gene: TA17A_49 Start: 43465, Stop: 42941, Start Num: 32

Candidate Starts for TA17A_49:

(23, 43555), (Start: 32 @43465 has 50 MA's), (77, 43225), (87, 43195), (88, 43192), (90, 43180), (92, 43174), (98, 43135), (100, 43129), (103, 43114), (120, 42982), (125, 42961),

Gene: TPA2_56 Start: 43487, Stop: 42981, Start Num: 32

Candidate Starts for TPA2_56:

(Start: 32 @43487 has 50 MA's), (69, 43298), (72, 43286), (90, 43211), (98, 43166), (105, 43124),

Gene: TallGrassMM_50 Start: 43403, Stop: 42783, Start Num: 21

Candidate Starts for TallGrassMM_50:

(Start: 21 @43403 has 310 MA's), (34, 43307), (51, 43205), (52, 43202), (54, 43196), (58, 43172), (61, 43163), (66, 43130), (73, 43103), (99, 42971), (100, 42968), (108, 42908),

Gene: Telesworld_49 Start: 43482, Stop: 42862, Start Num: 21

Candidate Starts for Telesworld_49:

(Start: 21 @43482 has 310 MA's), (34, 43386), (51, 43284), (52, 43281), (54, 43275), (58, 43251), (61, 43242), (66, 43209), (73, 43182), (99, 43050), (100, 43047), (108, 42987),

Gene: Thonko_48 Start: 41869, Stop: 41228, Start Num: 21

Candidate Starts for Thonko_48:

(Start: 21 @41869 has 310 MA's), (29, 41794), (31, 41782), (36, 41749), (43, 41677), (48, 41659), (51, 41650), (52, 41647), (54, 41641), (58, 41617), (73, 41545), (80, 41506), (85, 41485), (98, 41419), (104, 41395), (113, 41335), (114, 41302), (117, 41293), (124, 41254),

Gene: Thora_50 Start: 43789, Stop: 43169, Start Num: 21

Candidate Starts for Thora_50:

(Start: 21 @43789 has 310 MA's), (34, 43693), (51, 43591), (52, 43588), (54, 43582), (58, 43558), (61, 43549), (66, 43516), (73, 43489), (99, 43357), (100, 43354), (108, 43294),

Gene: ThreeOh3D2_51 Start: 43922, Stop: 43302, Start Num: 21

Candidate Starts for ThreeOh3D2_51:

(Start: 21 @43922 has 310 MA's), (34, 43826), (51, 43724), (52, 43721), (54, 43715), (58, 43691), (61, 43682), (66, 43649), (73, 43622), (99, 43490), (100, 43487), (108, 43427),

Gene: Thunderbird_49 Start: 43490, Stop: 42870, Start Num: 21

Candidate Starts for Thunderbird_49:

(Start: 21 @43490 has 310 MA's), (34, 43394), (51, 43292), (52, 43289), (54, 43283), (58, 43259), (61, 43250), (66, 43217), (73, 43190), (99, 43058), (100, 43055), (108, 42995),

Gene: Timmi_49 Start: 43489, Stop: 42869, Start Num: 21

Candidate Starts for Timmi_49:

(Start: 21 @43489 has 310 MA's), (34, 43393), (51, 43291), (52, 43288), (54, 43282), (58, 43258), (61, 43249), (66, 43216), (73, 43189), (99, 43057), (100, 43054), (108, 42994),

Gene: Tinciduntolum_50 Start: 43627, Stop: 43088, Start Num: 32

Candidate Starts for Tinciduntolum_50:

(23, 43717), (Start: 32 @43627 has 50 MA's), (77, 43372), (87, 43342), (88, 43339), (90, 43327), (92, 43321), (98, 43282), (100, 43276), (103, 43261), (120, 43129),

Gene: TomBombadil_50 Start: 43774, Stop: 43154, Start Num: 21

Candidate Starts for TomBombadil_50:

(Start: 21 @43774 has 310 MA's), (34, 43678), (51, 43576), (52, 43573), (54, 43567), (58, 43543), (61, 43534), (66, 43501), (73, 43474), (99, 43342), (100, 43339), (108, 43279),

Gene: Tomlarah_50 Start: 43777, Stop: 43157, Start Num: 21

Candidate Starts for Tomlarah_50:

(Start: 21 @43777 has 310 MA's), (34, 43681), (51, 43579), (52, 43576), (54, 43570), (58, 43546), (61, 43537), (66, 43504), (73, 43477), (99, 43345), (100, 43342), (108, 43282),

Gene: Toni_49 Start: 43481, Stop: 42861, Start Num: 21

Candidate Starts for Toni_49:

(Start: 21 @43481 has 310 MA's), (34, 43385), (51, 43283), (52, 43280), (54, 43274), (58, 43250), (61, 43241), (66, 43208), (73, 43181), (99, 43049), (100, 43046), (108, 42986),

Gene: Tooj_50 Start: 43856, Stop: 43236, Start Num: 21

Candidate Starts for Tooj_50:

(Start: 21 @43856 has 310 MA's), (34, 43760), (51, 43658), (52, 43655), (54, 43649), (58, 43625), (61, 43616), (66, 43583), (73, 43556), (99, 43424), (100, 43421), (108, 43361),

Gene: Tres_49 Start: 43478, Stop: 42954, Start Num: 32

Candidate Starts for Tres_49:

(23, 43568), (Start: 32 @43478 has 50 MA's), (77, 43238), (87, 43208), (88, 43205), (90, 43193), (92, 43187), (98, 43148), (100, 43142), (103, 43127), (120, 42995), (125, 42974),

Gene: Trine_28 Start: 23072, Stop: 22572, Start Num: 38

Candidate Starts for Trine_28:

(28, 23123), (Start: 38 @23072 has 1 MA's), (56, 22973), (92, 22802), (107, 22700), (108, 22697), (123, 22604),

Gene: True_49 Start: 43487, Stop: 42867, Start Num: 21

Candidate Starts for True_49:

(Start: 21 @43487 has 310 MA's), (34, 43391), (51, 43289), (52, 43286), (54, 43280), (58, 43256), (61, 43247), (66, 43214), (73, 43187), (99, 43055), (100, 43052), (108, 42992),

Gene: Trypo_51 Start: 43918, Stop: 43298, Start Num: 21

Candidate Starts for Trypo_51:

(Start: 21 @43918 has 310 MA's), (34, 43822), (51, 43720), (52, 43717), (54, 43711), (58, 43687), (61, 43678), (66, 43645), (73, 43618), (99, 43486), (100, 43483), (108, 43423),

Gene: Tydolla_48 Start: 43950, Stop: 43405, Start Num: 26

Candidate Starts for Tydolla_48:

(Start: 26 @43950 has 46 MA's), (55, 43800), (74, 43713), (75, 43698), (77, 43686), (87, 43656), (92, 43635), (98, 43596), (100, 43590), (101, 43581), (105, 43554),

Gene: TyrionL_49 Start: 43343, Stop: 42723, Start Num: 21

Candidate Starts for TyrionL_49:

(Start: 21 @43343 has 310 MA's), (34, 43247), (51, 43145), (52, 43142), (54, 43136), (58, 43112), (61, 43103), (66, 43070), (73, 43043), (81, 43001), (99, 42911), (100, 42908), (108, 42848),

Gene: UAch1_50 Start: 43811, Stop: 43191, Start Num: 21

Candidate Starts for UAch1_50:

(Start: 21 @43811 has 310 MA's), (34, 43715), (51, 43613), (52, 43610), (54, 43604), (58, 43580), (61, 43571), (66, 43538), (73, 43511), (99, 43379), (100, 43376), (108, 43316),

Gene: UncleHowie_50 Start: 43486, Stop: 42866, Start Num: 21

Candidate Starts for UncleHowie_50:

(Start: 21 @43486 has 310 MA's), (34, 43390), (51, 43288), (52, 43285), (54, 43279), (58, 43255), (61, 43246), (66, 43213), (73, 43186), (99, 43054), (100, 43051), (108, 42991),

Gene: Usavi_50 Start: 43785, Stop: 43165, Start Num: 21

Candidate Starts for Usavi_50:

(Start: 21 @43785 has 310 MA's), (34, 43689), (51, 43587), (52, 43584), (54, 43578), (58, 43554), (61, 43545), (66, 43512), (73, 43485), (99, 43353), (100, 43350), (108, 43290),

Gene: Vaishali24_49 Start: 43457, Stop: 42837, Start Num: 21

Candidate Starts for Vaishali24_49:

(Start: 21 @43457 has 310 MA's), (34, 43361), (51, 43259), (52, 43256), (54, 43250), (58, 43226), (61, 43217), (66, 43184), (73, 43157), (99, 43025), (100, 43022), (108, 42962),

Gene: Valjean_50 Start: 43782, Stop: 43162, Start Num: 21

Candidate Starts for Valjean_50:

(Start: 21 @43782 has 310 MA's), (34, 43686), (51, 43584), (52, 43581), (54, 43575), (58, 43551), (61, 43542), (66, 43509), (73, 43482), (99, 43350), (100, 43347), (108, 43287),

Gene: Vaticameos_46 Start: 41468, Stop: 40848, Start Num: 21

Candidate Starts for Vaticameos_46:

(Start: 21 @41468 has 310 MA's), (34, 41372), (51, 41270), (52, 41267), (54, 41261), (58, 41237), (61, 41228), (66, 41195), (73, 41168), (99, 41036), (100, 41033), (108, 40973),

Gene: Veritas_49 Start: 43364, Stop: 42744, Start Num: 21

Candidate Starts for Veritas_49:

(Start: 21 @43364 has 310 MA's), (34, 43268), (51, 43166), (52, 43163), (54, 43157), (58, 43133), (61, 43124), (66, 43091), (73, 43064), (99, 42932), (100, 42929), (108, 42869),

Gene: Vic9_49 Start: 43999, Stop: 43463, Start Num: 32

Candidate Starts for Vic9_49:

(23, 44089), (Start: 32 @43999 has 50 MA's), (77, 43747), (87, 43717), (88, 43714), (90, 43702), (92, 43696), (98, 43657), (100, 43651), (103, 43636), (120, 43504),

Gene: Vincenzo_46 Start: 44903, Stop: 44286, Start Num: 21

Candidate Starts for Vincenzo_46:

(Start: 21 @44903 has 310 MA's), (34, 44801), (35, 44792), (46, 44714), (52, 44693), (54, 44687), (58, 44663), (73, 44594), (76, 44570), (77, 44564), (79, 44558), (83, 44540), (92, 44507), (95, 44489), (99, 44465), (100, 44462), (104, 44444), (112, 44387),

Gene: VioletZ_47 Start: 44423, Stop: 43809, Start Num: 21

Candidate Starts for VioletZ_47:

(Start: 21 @44423 has 310 MA's), (34, 44330), (54, 44216), (58, 44192), (62, 44180), (71, 44129), (90, 44042), (95, 44018), (98, 43997), (99, 43994), (111, 43919),

Gene: Virapocalypse_50 Start: 43777, Stop: 43157, Start Num: 21

Candidate Starts for Virapocalypse_50:

(Start: 21 @43777 has 310 MA's), (34, 43681), (51, 43579), (52, 43576), (54, 43570), (58, 43546), (61, 43537), (66, 43504), (73, 43477), (99, 43345), (100, 43342), (108, 43282),

Gene: Virgeve_49 Start: 43554, Stop: 42934, Start Num: 21

Candidate Starts for Virgeve_49:

(Start: 21 @43554 has 310 MA's), (34, 43458), (51, 43356), (52, 43353), (54, 43347), (58, 43323), (61, 43314), (66, 43281), (73, 43254), (99, 43122), (100, 43119), (108, 43059),

Gene: Vista_50 Start: 43787, Stop: 43167, Start Num: 21

Candidate Starts for Vista_50:

(Start: 21 @43787 has 310 MA's), (34, 43691), (51, 43589), (52, 43586), (54, 43580), (58, 43556), (61, 43547), (66, 43514), (73, 43487), (99, 43355), (100, 43352), (108, 43292),

Gene: Vivaldi_51 Start: 44222, Stop: 43602, Start Num: 21

Candidate Starts for Vivaldi_51:

(Start: 21 @44222 has 310 MA's), (34, 44126), (51, 44024), (52, 44021), (54, 44015), (58, 43991), (61, 43982), (66, 43949), (73, 43922), (99, 43790), (100, 43787), (108, 43727),

Gene: Vortex_50 Start: 43484, Stop: 42864, Start Num: 21

Candidate Starts for Vortex_50:

(Start: 21 @43484 has 310 MA's), (34, 43388), (51, 43286), (52, 43283), (54, 43277), (58, 43253), (61, 43244), (66, 43211), (73, 43184), (99, 43052), (100, 43049), (108, 42989),

Gene: Waleliano_45 Start: 44339, Stop: 43728, Start Num: 21

Candidate Starts for Waleliano_45:

(Start: 21 @44339 has 310 MA's), (34, 44249), (54, 44135), (58, 44111), (62, 44099), (71, 44048), (90, 43961), (95, 43937), (98, 43916), (99, 43913), (111, 43838), (112, 43835),

Gene: Wallhey_49 Start: 43347, Stop: 42727, Start Num: 21

Candidate Starts for Wallhey_49:

(Start: 21 @43347 has 310 MA's), (34, 43251), (51, 43149), (52, 43146), (54, 43140), (58, 43116), (61, 43107), (66, 43074), (73, 43047), (81, 43005), (99, 42915), (100, 42912), (108, 42852),

Gene: Waterdiva_50 Start: 43779, Stop: 43159, Start Num: 21

Candidate Starts for Waterdiva_50:

(Start: 21 @43779 has 310 MA's), (34, 43683), (51, 43581), (52, 43578), (54, 43572), (58, 43548), (61, 43539), (66, 43506), (73, 43479), (99, 43347), (100, 43344), (108, 43284),

Gene: Weher20_50 Start: 43778, Stop: 43158, Start Num: 21

Candidate Starts for Weher20_50:

(Start: 21 @43778 has 310 MA's), (34, 43682), (51, 43580), (52, 43577), (54, 43571), (58, 43547), (61, 43538), (66, 43505), (73, 43478), (99, 43346), (100, 43343), (108, 43283),

Gene: West99_49 Start: 43613, Stop: 43074, Start Num: 32

Candidate Starts for West99_49:

(23, 43703), (Start: 32 @43613 has 50 MA's), (77, 43358), (87, 43328), (88, 43325), (90, 43313), (92, 43307), (98, 43268), (100, 43262), (103, 43247), (120, 43115), (125, 43094),

Gene: Widow_29 Start: 23301, Stop: 22723, Start Num: 25

Candidate Starts for Widow_29:

(24, 23319), (Start: 25 @23301 has 5 MA's), (59, 23103), (77, 23004), (88, 22974), (100, 22911), (109, 22845), (110, 22839), (119, 22770), (120, 22767),

Gene: Windsor_49 Start: 43483, Stop: 42863, Start Num: 21

Candidate Starts for Windsor_49:

(Start: 21 @43483 has 310 MA's), (34, 43387), (51, 43285), (52, 43282), (54, 43276), (58, 43252), (61, 43243), (66, 43210), (73, 43183), (99, 43051), (100, 43048), (108, 42988),

Gene: Wooper_46 Start: 38897, Stop: 38403, Start Num: 32

Candidate Starts for Wooper_46:

(Start: 32 @38897 has 50 MA's), (50, 38798), (60, 38756), (69, 38717), (72, 38705), (75, 38684), (77, 38672), (87, 38636), (93, 38612), (98, 38576), (100, 38570), (108, 38507), (113, 38489),

Gene: Xavier_49 Start: 43491, Stop: 42871, Start Num: 21

Candidate Starts for Xavier_49:

(Start: 21 @43491 has 310 MA's), (34, 43395), (51, 43293), (52, 43290), (54, 43284), (58, 43260), (61, 43251), (66, 43218), (73, 43191), (99, 43059), (100, 43056), (108, 42996),

Gene: Xincheng_44 Start: 43783, Stop: 43175, Start Num: 21

Candidate Starts for Xincheng_44:

(Start: 21 @43783 has 310 MA's), (34, 43693), (51, 43588), (54, 43579), (58, 43555), (71, 43492), (90, 43405), (95, 43381), (98, 43360), (99, 43357), (111, 43282),

Gene: Yago84_43 Start: 37494, Stop: 36997, Start Num: 32

Candidate Starts for Yago84_43:

(Start: 32 @37494 has 50 MA's), (69, 37311), (72, 37299), (75, 37278), (77, 37266), (98, 37176), (100, 37170), (105, 37134), (107, 37113), (113, 37092),

Gene: Yahalom_48 Start: 43226, Stop: 42681, Start Num: 26

Candidate Starts for Yahalom_48:

(Start: 26 @43226 has 46 MA's), (55, 43076), (74, 42989), (75, 42974), (77, 42962), (87, 42932), (92, 42911), (98, 42872), (100, 42866), (101, 42857), (105, 42830),

Gene: Yinz_48 Start: 43252, Stop: 42707, Start Num: 26

Candidate Starts for Yinz_48:

(Start: 26 @43252 has 46 MA's), (47, 43123), (55, 43102), (74, 43015), (75, 43000), (77, 42988), (87, 42958), (92, 42937), (98, 42898), (100, 42892), (101, 42883), (105, 42856),

Gene: Yoshand_51 Start: 43942, Stop: 43322, Start Num: 21

Candidate Starts for Yoshand_51:

(Start: 21 @43942 has 310 MA's), (34, 43846), (51, 43744), (52, 43741), (54, 43735), (58, 43711), (61, 43702), (66, 43669), (73, 43642), (99, 43510), (100, 43507), (108, 43447),

Gene: YouGoGlencoco_50 Start: 43781, Stop: 43161, Start Num: 21

Candidate Starts for YouGoGlencoco_50:

(Start: 21 @43781 has 310 MA's), (34, 43685), (51, 43583), (52, 43580), (54, 43574), (58, 43550), (61, 43541), (66, 43508), (73, 43481), (99, 43349), (100, 43346), (108, 43286),

Gene: Zaider_51 Start: 44011, Stop: 43391, Start Num: 21

Candidate Starts for Zaider_51:

(Start: 21 @44011 has 310 MA's), (34, 43915), (51, 43813), (52, 43810), (54, 43804), (58, 43780), (61, 43771), (66, 43738), (73, 43711), (99, 43579), (100, 43576), (108, 43516),

Gene: Zelda_50 Start: 43828, Stop: 43208, Start Num: 21

Candidate Starts for Zelda_50:

(Start: 21 @43828 has 310 MA's), (34, 43732), (51, 43630), (52, 43627), (54, 43621), (58, 43597), (61, 43588), (66, 43555), (73, 43528), (99, 43396), (100, 43393), (108, 43333),

Gene: Zemanar_46 Start: 44320, Stop: 43709, Start Num: 21

Candidate Starts for Zemanar_46:

(Start: 21 @44320 has 310 MA's), (34, 44230), (54, 44116), (58, 44092), (62, 44080), (71, 44029), (90, 43942), (95, 43918), (98, 43897), (99, 43894), (111, 43819), (112, 43816),

Gene: Zenteno07_54 Start: 43624, Stop: 43007, Start Num: 21

Candidate Starts for Zenteno07_54:

(Start: 21 @43624 has 310 MA's), (41, 43423), (48, 43396), (52, 43384), (58, 43354), (95, 43216), (99, 43192), (108, 43129), (114, 43078),

Gene: Zonia_50 Start: 43798, Stop: 43178, Start Num: 21

Candidate Starts for Zonia_50:

(Start: 21 @43798 has 310 MA's), (34, 43702), (51, 43600), (52, 43597), (54, 43591), (58, 43567), (61, 43558), (66, 43525), (73, 43498), (81, 43456), (99, 43366), (100, 43363), (108, 43303),