

Pham 171095



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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 171095 Report

This analysis was run 07/09/24 on database version 566.

Pham number 171095 has 557 members, 52 are drafts.

Phages represented in each track:

- Track 1 : EdgarPoe_37, Tophat_37, Chubster_37, Mordred_37, PrincessTrina_37, Chipper1996_370, Conboy_37, JaNo_37, Chocolat_37, HumptyDumpty_37, MoyaNatalis_37, Kabreeze_37, Linus_37, JayCookie_37, RosiePosie_37, Scavito_37
- Track 2 : DrYang_38
- Track 3 : Lymara_37
- Track 4 : KBurroustX_37
- Track 5 : Colucci_37
- Track 6 : Galaxy_26
- Track 7 : Basilisk_26
- Track 8 : Vulpecula_25
- Track 9 : Abidatro_27
- Track 10 : TaylorSipht_26
- Track 11 : Jamun_25
- Track 12 : Brynnie_25
- Track 13 : Polka_26, Coral_26, Lunar_27, Orcanus_26, Cote_27, Daob_27, Amelia_27, Melons_27
- Track 14 : Kuleana_27
- Track 15 : PhluffyCoco_26
- Track 16 : Leona_25
- Track 17 : RedFox_26
- Track 18 : Andrew_28
- Track 19 : ABU_45, Spartan300_45, PhrodoBaggins_44, Badfish_45, LasagnaCat_45, DoesntMatter_44, Horchata_45, Scrick_45, LostAndPhound_44, Chute_44, Katniss_45, True_44, Orion_45, Keitherie_45, Scoot17C_45, Charles1_45, Megatron_45, Quisquillae_45, PhatCats2014_45, Lulwa_45, Held_45, HenryJackson_44, Harvey_45, Robyn_44, Nyala_44, DaddyDaniels_45, Valjean_45, AltPhacts_45, Megamind20_45, DonSanchon_44, Gophee_45, Potter_44, HighStump_44, CampRoach_45, LeiMonet_46, Kimbrough_45, Fang_45, ShiVal_45, Lumine_44, TomBombadil_45, Craff_45, Jiraiya_46, CharlieGBrown_44, Anderson_45, Struggle_44, Fringe_45, EmpTee_45, Adriana_45, Chaelin_45, PG1_45, Roscoe_46, Vivaldi_45, Omniscient_45, Nacho_0045, Mecca_44, Chorkpop_45, SassyCat97_44, Numberten_45, DelRivs_44, Giraffe_45, MitKao_45, Boehler_45, Aelin_44, Inchworm_45, Bishoperium_44, Chah_46, Olive_45, SDcharge11_45, Oline_44, Tomlarah_45, Manad_44, Morty_45, Jiminy_44, Mosaic_44, Podrick_45, Selr12_46, ThreeOh3D2_45, Windsor_44, Skippy_45, Squiggle_45, Lopsy_44, Coletti_44, Schadenfreude_44, CheetO_45, Duggie_44, Mutante_44, Crownjwl_45, IsaacEli_45, Trypo_45, ProfessorX_45, Olak_45,

Cornobble_44, LeeLot_45, Kikipoo_45, Doddsville_45, Thunderbird_45, Lego3393_44, Virgeve_44, Durga_45, LemonSlice_45, Squid_45, Antonia_44

- Track 20 : Bluephacebaby_44, Hamish_45, PhenghisKhan_44, JangoPhett_45, Eremos_45, AbsoluteMadLad_44, PhrankReynolds_43, Colbert_45, Riggan_45, UAch1_45, Altwerkus_44, Phipps_45, Jillium_44, Slatt_45, FugateOSU_44, Roliet_45, Phamished_45, Soto_45, Mag7_44, Lasso_45, Tooj_45, Hartsy_45, BlueHusk_45, Mesh1_45, Kahve_44, PhatLouie_45, Daka_46, Oosterbaan_45, YouGoGlencoco_45, Matalotodo_45, Placalicious_44, Zaider_46, Cosmolli16_44, FriarPreacher_44, JDog_44, Haimas_45, DirtJuice_45, Zelda_45, Buckeye_45, Thora_45, Orwigg_45, Hetaeria_45, Phleuron_44, Basato_46, Swiphy_47, Usavi_45, Pipsqueak_45, Melc17_45, Burr_44, KingVeVeVe_45, Veritas_44, BatteryCK_44, Mulan_44, MichaelPhcott_44, Prickles_45, Iridoclysis_45, Magic8_45, Weher20_45, Chunky_45, Gwilliam_46, OliverWalter_45, Waterdiva_45, Nicole21_45, JakeO_44, Suffolk_45, Dati_45, Kailash_45, Phergie_44, Schueller_45, Dingo_45, Vista_45, Etaye_45, Sophia_44, Surely_45, Virapocalypse_45, Hertubise_45
- Track 21 : Morgushi_45, MiniBoss_45, Soile_45, Beaglebox_44, Haleema_44, Solosis_44, Lulumae_44, Telesworld_44, Emiris_45, Brilliant_45, Cobra_45, Swish_45, Phunky_45, Kwadwo_44, Wallhey_44, Vaishali24_44, JacAttac_45, Orfeu_45, Mikota_45, KingTut_36, Vaticameos_41, Fozzie_44, Apizium_44, CamL_45, MRabcd_44, Puhltonio_45, MrPhizzler_44, Timmi_44, HSavage_45, Maskar_44, Derpp_44, Carthage_43, TallGrassMM_45, Labeouficaum_44, Pherdinand_45, Cannibal_45, Dione_44, Sheila_45, Samaymay_45, LuckyMarjie_44, DuchessDung_43, Pacifista_47, Cher_44, Vortex_45, RedMaple_44, Murdoc_45, Serpentine_0045, Grand2040_44, FluffyNinja_45, Simielle_44, Zonia_45, Maru_44, Pinkman_44, Mcshane_44, Yoshand_45, BlackStallion_45, Gareth_44, Kwksand96_44, Banjo_44, Freya_44, Frankicide_45, KlimbOn_45, KLucky39_45, Piglet_0044, Roy17_45, Ashraf_44, ImtiyazSitla_44, Andre_45, Serendipity_45, Mana_44, QueenBeane_45, Gyarad_0045, GeneCoco_45, PinheadLarry_45, Xavier_44, MelsMeow_44, Longacauda_44, Rimu_47, Toni_44, TyrionL_44, Childish_44, OSmaximus_45, Newman_45, Hocus_44, Sigman_45, Legolas_44, Phareon_45, Daffy_45, Inverness_45
- Track 22 : Dice_46, Ricotta_45
- Track 23 : Plmatters_45, Kloppinator_45, UncleHowie_45, Pops_45, Eugenia_45
- Track 24 : Imvubu_36
- Track 25 : Indlovu_42
- Track 26 : LilMcDreamy_41
- Track 27 : BirdsNest_46
- Track 28 : Hashim76_47, Zenteno07_48
- Track 29 : Tinciduntolum_45, Hedgerow_44, TA17A_44, Brownie5_44, Rhinoforte_44, Boyle_44, Eaglehorse_44, Ares_44, Lars_44, FrenchFry_44, Bananafish_44, Blocker23_44, Tres_44, Holeinone_44, Sabella_43, Allegro_44, Glass_44, Kheth_44, Kaleb_44, Phantasmagoria_44, LizLemon_44, Lephleur_44, MasterPo_44, Calamitous_44, Faze9_43, ItsyBitsy1_44, West99_44, Coffee_44, Godines_44, Laurie_43, Opia_44
- Track 30 : Arbiter_43, Qyrzula_41, Rosebush_43
- Track 31 : Nozo_43, Yahalom_43, Daisy_43, Rita1961_43, Obutu_43, Philly_42, Corofin_43, Heathcliff_43, Neos5_43, Morty007_43, Halfpint_42, Chandler_43, Mortcellus_42, Abinghost_43, Gadget_44, Devonte_43, Deenasa_43, Casbah_42, OrangeOswald_43, Compostia_44, LestyG_43, SynergyX_43, Baloo_43, MmasiCarm_43, Kamiyu_43, Bernardo_44, Jackstina_40, Phlyer_43, Gervas_43, Yinz_43, ChaChing_43, Ben11_42, Athena_44, Pipefish_45, Phayeta_44, Briakila_44, Phaedrus_41, HarveySr_43, RomaT_43, Akoma_43, Marley1013_43, GlenHope_44, Tydolla_43, RagingRooster_43, SlippinJimmy_43, Kronus_42,

Audrey_43

- Track 32 : Prince_41, Zemanar_41, JaguarMi_40, Fortunato_41, Apex_41, Nigel_39, Heath_39, JAMaL_40, VioletZ_41, BobbyK_41, Austelle_41, Waleliano_40, Lolalove_40, BrownCNA_42, Mudslide_40, RawrgerThat_41, Hydro_40, Hangman_40, Frederick_40, Mithril_40, Magpie_39, Cooper_41
- Track 33 : ChrisMich_40, Ahwei_39, Nanao_39, Poster_39
- Track 34 : Vincenzo_41, AlanGrant_42
- Track 35 : Stinger_39
- Track 36 : EastView9101_44, SirJeffery_44, Acadian_44, Donny_44, Suigeneris_44
- Track 37 : Bae_43, Rich_42
- Track 38 : Reprobate_44, Phelemich_43, Mysterious_45
- Track 39 : Serendipitous_43
- Track 40 : Nangang_43, DigitDog_43
- Track 41 : StinkyVeggy_45
- Track 42 : KayaCho_37
- Track 43 : Hosp_035
- Track 44 : 39HC_037, 40BC_037
- Track 45 : Jolie1_037
- Track 46 : Saguaro_45
- Track 47 : Thonko_43
- Track 48 : CRB2_46
- Track 49 : Funsized_46
- Track 50 : Knocker_45
- Track 51 : Quesadilla_46
- Track 52 : PenguinLover67_46
- Track 53 : Catfish_31
- Track 54 : BeeGee_38, RavenCo17_36
- Track 55 : LonelyBoi_35
- Track 56 : Nymphadora_34, Bosnia_34, Herod_34, BatStarr_34, Eviarto_34, TimTam_34
- Track 57 : Eudoria_35, Maridalia_34, Suscepit_35, Manasvini_35, Zameen_35, Neobush_35, Tayonia_35, Polly_32, Kita_36, Antonio_35, Trumpet_35
- Track 58 : Hugley_32
- Track 59 : Clap_30, Haley23_30, Savage_30, Sahara_29, GemG_30, Sproutie_30, Mocha12_30, Cynthia_30, TuertoX_30, Whiteclaw_30, Ebert_31, Gizermo_30
- Track 60 : Vasanti_31
- Track 61 : RayTheFireFly_38
- Track 62 : Phistory_39, Frickyeah_39, Apricot_38, BENtherdunthat_38
- Track 63 : Horus_39, Lutum_39, Asapag_39, Leroy_39, Ecliptus_40, Whitney_42, Phabuloso_36, ODay_42, Budski_39, Getalong_40, Kenna_38, BearBQ_38, CheeseTouch_37, Holliday_38, Periwinkle_42
- Track 64 : Spooky_39, Squiddly_40
- Track 65 : Crater_36
- Track 66 : Axumite_38, Shatter_38, Ligma_38, Fresco_38
- Track 67 : MossRose_40, MakoManhole_40, CaiB_40, AnarQue_40, CloverMinnie_40
- Track 68 : Mariokart_38, CharlottesWeb_38
- Track 69 : Sour_43
- Track 70 : BiggityBass_38
- Track 71 : NHagos_38
- Track 72 : Evaa_38
- Track 73 : Yago84_38, Sisko_38, AnClar_39
- Track 74 : LittleMunchkin_40

- Track 75 : Wooper_40
- Track 76 : Madiba_23, ThetaBob_24
- Track 77 : Avani_28, ShroomBoi_22
- Track 78 : Demsculpinboyz_28, Che9d_28, Bipolar_22, Kenuha5_22, Ogotogo_25, Kersh_23, Pollywog_25, Yoshi_28
- Track 79 : Sbash_32
- Track 80 : Rubeelu_32, Butters_32
- Track 81 : Purky_30
- Track 82 : Purky_36
- Track 83 : Rem711_6
- Track 84 : 32HC_7
- Track 85 : Whack_33
- Track 86 : Sleepyhead_33
- Track 87 : Pine5_39
- Track 88 : Shambre1_30

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

The start number called the most often in the published annotations is 52, it was called in 273 of the 505 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 39HC_037, 40BC_037, ABU_45, AbsoluteMadLad_44, Acadian_44, Adriana_45, Aelin_44, AltPhacts_45, Altwerkus_44, Anderson_45, Andre_45, Antonia_44, Apizium_44, Ashraf_44, Badfish_45, Bae_43, Banjo_44, Basato_46, BatteryCK_44, Beaglebox_44, BirdsNest_46, Bishoperium_44, BlackStallion_45, BlueHusk_45, Bluephacebaby_44, Boehler_45, Brilliant_45, Buckeye_45, Burr_44, CRB2_46, CamL_45, CampRoach_45, Cannibal_45, Carthage_43, Chaelin_45, Chah_46, Charles1_45, CharlieGBrown_44, CheetO_45, Cher_44, Childish_44, Chorkpop_45, Chunky_45, Chute_44, Cobra_45, Colbert_45, Coletti_44, Cornobble_44, Cosmolli16_44, Craff_45, Crownjwl_45, DaddyDaniels_45, Daffy_45, Daka_46, Dati_45, DelRivs_44, Derpp_44, DigitDog_43, Dingo_45, Dione_44, DirtJuice_45, Doddsville_45, DoesntMatter_44, DonSanchon_44, Donny_44, DuchessDung_43, Duggie_44, Durga_45, EastView9101_44, Emiris_45, EmpTee_45, Eremos_45, Etaye_45, Eugenia_45, Fang_45, FluffyNinja_45, Fozzie_44, Frankicide_45, Freya_44, FriarPreacher_44, Fringe_45, FugateOSU_44, Funsized_46, Gareth_44, GeneCoco_45, Giraffe_45, Gophee_45, Grand2040_44, Gwilliam_46, Gyarad_0045, HSavage_45, Haimas_45, Haleema_44, Hamish_45, Hartsy_45, Harvey_45, Hashim76_47, Held_45, HenryJackson_44, Hertubise_45, Hetaeria_45, HighStump_44, Hocus_44, Horchata_45, Hosp_035, ImtiyazSitla_44, Imvubu_36, Inchworm_45, Indlovu_42, Inverness_45, Iridoclysis_45, IsaacEli_45, JDog_44, JacAttac_45, JakeO_44, JangoPhett_45, Jillium_44, Jiminy_44, Jiraiya_46, Jolie1_037, KLucky39_45, Kahve_44, Kailash_45, Katniss_45, KayaCho_37, Keitherie_45, Kikipoo_45, Kimbrough_45, KingTut_36, KingVeVeVe_45, KlimbOn_45, Kloppinator_45, Knocker_45, Kwadwo_44, Kwksand96_44, Labeouficaum_44, LasagnaCat_45, Lasso_45, LeeLot_45, Lego3393_44, Legolas_44, LeiMonet_46, LemonSlice_45, LilMcDreamy_41, Longacauda_44, Lopsy_44, LostAndPhound_44, LuckyMarjie_44, Lulumae_44, Lulwa_45, Lumine_44, MRabcd_44, Mag7_44, Magic8_45, Mana_44, Manad_44, Maru_44, Maskar_44, Matalotodo_45, Mcshane_44, Mecca_44, Megamind20_45, Megatron_45,

Melc17_45, MelsMeow_44, Mesh1_45, MichaelPhcott_44, Mikota_45, MiniBoss_45, MitKao_45, Morgushi_45, Morty_45, Mosaic_44, MrPhizzler_44, Mulan_44, Murdoc_45, Mutante_44, Mysterious_45, Nacho_0045, Nangang_43, Newman_45, Nicole21_45, Numberten_45, Nyala_44, OSmaximus_45, Olak_45, Oline_44, Olive_45, OliverWalter_45, Omniscient_45, Oosterbaan_45, Orfeu_45, Orion_45, Orwigg_45, PG1_45, Pacifista_47, PenguinLover67_46, Phamished_45, Phareon_45, PhatCats2014_45, PhatLouie_45, Phelemich_43, PhenghisKhan_44, Pherdinand_45, Phergie_44, Phipps_45, Phleuron_44, PhrankReynolds_43, PhrodoBaggins_44, Phunky_45, Piglet_0044, PinheadLarry_45, Pinkman_44, Pipsqueak_45, Placalicious_44, Plmatters_45, Podrick_45, Pops_45, Potter_44, Prickles_45, ProfessorX_45, Puhltonio_45, QueenBeane_45, Quesadilla_46, Quisquillae_45, RedMaple_44, Reprobate_44, Rich_42, Riggan_45, Rimu_47, Robyn_44, Roliet_45, Roscoe_46, Roy17_45, SDcharge11_45, Saguario_45, Samaymay_45, SassyCat97_44, Schadenfreude_44, Schueller_45, Scoot17C_45, Scrick_45, Selr12_46, Serendipitous_43, Serendipity_45, Serpentine_0045, Sheila_45, ShiVal_45, Sigman_45, Simielle_44, SirJeffery_44, Skippy_45, Slatt_45, Soile_45, Solosis_44, Sophia_44, Soto_45, Spartan300_45, Squid_45, Squiggle_45, StinkyVeggy_45, Struggle_44, Suffolk_45, Suigeneris_44, Surely_45, Swiphy_47, Swish_45, TallGrassMM_45, Telesworld_44, Thora_45, ThreeOh3D2_45, Thunderbird_45, Timmi_44, TomBombadil_45, Tomlarah_45, Toni_44, Tooj_45, True_44, Trypo_45, TyrionL_44, UAch1_45, UncleHowie_45, Usavi_45, Vaishali24_44, Valjean_45, Vaticameos_41, Veritas_44, Virapocalypse_45, Virgeve_44, Vista_45, Vivaldi_45, Vortex_45, Wallhey_44, Waterdiva_45, Weher20_45, Windsor_44, Xavier_44, Yoshand_45, YouGoGlencoco_45, Zaider_46, Zelda_45, Zenteno07_48, Zonia_45,

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

- Dice_46, Ricotta_45,

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

- 32HC_7, Abidatro_27, Abinghost_43, Ahwei_39, Akoma_43, AlanGrant_42, Allegro_44, Amelia_27, AnClar_39, AnarQue_40, Andrew_28, Antonio_35, Apex_41, Apricot_38, Arbiter_43, Ares_44, Asapag_39, Athena_44, Audrey_43, Austelle_41, Avani_28, Axumite_38, BENtherdunthat_38, Baloo_43, Bananafish_44, Basilisk_26, BatStarr_34, BearBQ_38, BeeGee_38, Ben11_42, Bernardo_44, BiggityBass_38, Bipolar_22, Blocker23_44, BobbyK_41, Bosnia_34, Boyle_44, Briakila_44, BrownCNA_42, Brownie5_44, Brynnie_25, Budski_39, Butters_32, CaiB_40, Calamitous_44, Casbah_42, Catfish_31, ChaChing_43, Chandler_43, CharlottesWeb_38, Che9d_28, CheeseTouch_37, Chipper1996_370, Chocolat_37, ChrisnMich_40, Chubster_37, Clap_30, CloverMinnie_40, Coffee_44, Colucci_37, Compostia_44, Conboy_37, Cooper_41, Coral_26, Corofin_43, Cote_27, Crater_36, Cynthia_30, Daisy_43, Daob_27, Deenasa_43, Demsculpinboyz_28, Devonte_43, DrYang_38, Eaglehorse_44, Ebert_31, Ecliptus_40, EdgarPoe_37, Eudoria_35, Evaa_38, Eviarto_34, Faze9_43, Fortunato_41, Frederick_40, FrenchFry_44, Fresco_38, Frickyeah_39, Gadjet_44, Galaxy_26, GemG_30, Gervas_43, Getalong_40, Gizermo_30, Glass_44, GlenHope_44, Godines_44, Haley23_30, Halfpint_42, Hangman_40, HarveySr_43, Heath_39, Heathcliff_43, Hedgerow_44, Herod_34, Holeinone_44, Holliday_38, Horus_39, Hugley_32, HumptyDumpty_37, Hydro_40, ItsyBitsy1_44, JAMaL_40, JaNo_37, Jackstina_40, JaguarMi_40, Jamun_25, JayCookie_37, KBurrousTX_37, Kabreeze_37, Kaleb_44, Kamiyu_43, Kenna_38, Kenuha5_22, Kersh_23, Kheth_44, Kita_36, Kronus_42, Kuleana_27, Lars_44, Laurie_43, Leona_25, Lephleur_44, Leroy_39, LestyG_43, Ligma_38, Linus_37, LittleMunchkin_40, LizLemon_44, Lolalove_40, LonelyBoi_35, Lunar_27,

Lutum_39, Lymara_37, Madiba_23, Magpie_39, MakoManhole_40, Manasvini_35, Maridalia_34, Mariokart_38, Marley1013_43, MasterPo_44, Melons_27, Mithril_40, MmasiCarm_43, Mocha12_30, Mordred_37, Mortcellus_42, Morty007_43, MossRose_40, MoyaNatalis_37, Mudslide_40, NHagos_38, Nanao_39, Neobush_35, Neos5_43, Nigel_39, Nozo_43, Nymphadora_34, ODay_42, Obutu_43, Ogopogo_25, Opia_44, OrangeOswald_43, Orcanus_26, Periwinkle_42, Phabuloso_36, Phaedrus_41, Phantasmagoria_44, Phayeta_44, Philly_42, Phistory_39, PhluffyCoco_26, Phlyer_43, Pine5_39, Pipefish_45, Polka_26, Polly_32, Pollywog_25, Poster_39, Prince_41, PrincessTrina_37, Purky_30, Purky_36, Qyrzula_41, RagingRooster_43, RavenCo17_36, RawrgerThat_41, RayTheFireFly_38, RedFox_26, Rem711_6, Rhinoforte_44, Rita1961_43, RomaT_43, Rosebush_43, RosiePosie_37, Rubeelu_32, Sabella_43, Sahara_29, Savage_30, Sbash_32, Scavito_37, Shambre1_30, Shatter_38, ShroomBoi_22, Sisko_38, Sleepyhead_33, SlippinJimmy_43, Sour_43, Spooky_39, Sproutie_30, Squiddly_40, Stinger_39, Suscepit_35, SynergyX_43, TA17A_44, TaylorSipht_26, Tayonia_35, ThetaBob_24, Thonko_43, TimTam_34, Tinciduntolum_45, Tophat_37, Tres_44, Trumpet_35, TuertoX_30, Tydolla_43, Vasanti_31, Vincenzo_41, VioletZ_41, Vulpecula_25, Waleliano_40, West99_44, Whack_33, Whiteclaw_30, Whitney_42, Wooper_40, Yago84_38, Yahalom_43, Yinz_43, Yoshi_28, Zameen_35, Zemanar_41,

Summary by start number:

Start 35:

- Found in 6 of 557 (1.1%) of genes in pham
- Manual Annotations of this start: 5 of 505
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Axumite_38 (DR), CharlottesWeb_38 (DR), Fresco_38 (DR), Ligma_38 (DR), Mariokart_38 (DR), Shatter_38 (DR),

Start 38:

- Found in 47 of 557 (8.4%) of genes in pham
- Manual Annotations of this start: 44 of 505
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abinghost_43 (B3), Akoma_43 (B3), Athena_44 (B3), Audrey_43 (B3), Baloo_43 (B3), Ben11_42 (B3), Bernardo_44 (B3), Briakila_44 (B3), Casbah_42 (B3), ChaChing_43 (B3), Chandler_43 (B3), Compostia_44 (B3), Corofin_43 (B3), Daisy_43 (B3), Deenasa_43 (B3), Devonte_43 (B3), Gadget_44 (B3), Gervas_43 (B3), GlenHope_44 (B3), Halfpint_42 (B3), HarveySr_43 (B3), Heathcliff_43 (B3), Jackstina_40 (B3), Kamiyu_43 (B3), Kronus_42 (B3), LestyG_43 (B3), Marley1013_43 (B3), MmasiCarm_43 (B3), Mortcellus_42 (B3), Morty007_43 (B3), Neos5_43 (B3), Nozo_43 (B3), Obutu_43 (B3), OrangeOswald_43 (B3), Phaedrus_41 (B3), Phayeta_44 (B3), Philly_42 (B3), Phlyer_43 (B3), Pipefish_45 (B3), RagingRooster_43 (B3), Rita1961_43 (B3), RomaT_43 (B3), SlippinJimmy_43 (B3), SynergyX_43 (B3), Tydolla_43 (B3), Yahalom_43 (B3), Yinz_43 (B3),

Start 39:

- Found in 6 of 557 (1.1%) of genes in pham
- Manual Annotations of this start: 5 of 505
- Called 83.3% of time when present
- Phage (with cluster) where this start called: AnClar_39 (DR), BiggityBass_38 (DR), LittleMunchkin_40 (DR), Sisko_38 (DR), Yago84_38 (DR),

Start 41:

- Found in 8 of 557 (1.4%) of genes in pham
- Manual Annotations of this start: 7 of 505
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnarQue_40 (DR), CaiB_40 (DR), CloverMinnie_40 (DR), MakoManhole_40 (DR), MossRose_40 (DR), NHagos_38 (DR), Sour_43 (DR), Wooper_40 (DR),

Start 44:

- Found in 2 of 557 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 505
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_7 (Z), Rem711_6 (Z),

Start 46:

- Found in 43 of 557 (7.7%) of genes in pham
- Manual Annotations of this start: 36 of 505
- Called 83.7% of time when present
- Phage (with cluster) where this start called: Antonio_35 (CZ1), Asapag_39 (DN1), BatStarr_34 (CZ1), BearBQ_38 (DN), BeeGee_38 (CY), Bosnia_34 (CZ1), Budski_39 (DN), CheeseTouch_37 (DN1), Ecliptus_40 (DN), Eudoria_35 (CZ1), Eviarto_34 (CZ1), Getalong_40 (DN1), Herod_34 (CZ1), Holliday_38 (DN1), Horus_39 (DN1), Kenna_38 (DN1), Kita_36 (CZ1), Leroy_39 (DN1), Lutum_39 (DN1), Manasvini_35 (CZ1), Maridalia_34 (CZ1), Neobush_35 (CZ1), Nymphadora_34 (CZ1), ODay_42 (DN), Periwinkle_42 (DN1), Phabuloso_36 (DN1), Polly_32 (CZ1), RavenCo17_36 (CZ8), Sleepyhead_33 (singleton), Suscepit_35 (CZ1), Tayonia_35 (CZ1), TimTam_34 (CZ1), Trumpet_35 (CZ1), Whack_33 (singleton), Whitney_42 (DN1), Zameen_35 (CZ1),

Start 49:

- Found in 4 of 557 (0.7%) of genes in pham
- Manual Annotations of this start: 4 of 505
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Butters_32 (N), Purky_30 (P6), Rubeelu_32 (N), Sbash_32 (I2),

Start 50:

- Found in 2 of 557 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 505
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Evaa_38 (DR), Thonko_43 (B8),

Start 51:

- Found in 13 of 557 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 505
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Purky_36 (P6),

Start 52:

- Found in 305 of 557 (54.8%) of genes in pham
- Manual Annotations of this start: 273 of 505
- Called 99.3% of time when present

• Phage (with cluster) where this start called: 39HC_037 (B6), 40BC_037 (B6), ABU_45 (B1), AbsoluteMadLad_44 (B1), Acadian_44 (B5), Adriana_45 (B1), Aelin_44 (B1), AltPhacts_45 (B1), Altwerkus_44 (B1), Anderson_45 (B1), Andre_45 (B1), Antonia_44 (B1), Apizium_44 (B1), Ashraf_44 (B1), Badfish_45 (B1), Bae_43 (B5), Banjo_44 (B1), Basato_46 (B1), BatteryCK_44 (B1), Beaglebox_44 (B1), BirdsNest_46 (B13), Bishoperium_44 (B1), BlackStallion_45 (B1), BlueHusk_45 (B1), Bluephacebaby_44 (B1), Boehler_45 (B1), Brilliant_45 (B1), Buckeye_45 (B1), Burr_44 (B1), CRB2_46 (B9), CamL_45 (B1), CampRoach_45 (B1), Cannibal_45 (B1), Carthage_43 (B1), Chaelin_45 (B1), Chah_46 (B1), Charles1_45 (B1), CharlieGBrown_44 (B1), CheetO_45 (B1), Cher_44 (B1), Childish_44 (B1), Chorkpop_45 (B1), Chunky_45 (B1), Chute_44 (B1), Cobra_45 (B1), Colbert_45 (B1), Coletti_44 (B1), Cornobble_44 (B1), Cosmolli16_44 (B1), Craff_45 (B1), Crownjwl_45 (B1), DaddyDaniels_45 (B1), Daffy_45 (B1), Daka_46 (B1), Dati_45 (B1), DelRivs_44 (B1), Derpp_44 (B1), DigitDog_43 (B5), Dingo_45 (B1), Dione_44 (B1), DirtJuice_45 (B1), Doddsville_45 (B1), DoesntMatter_44 (B1), DonSanchon_44 (B1), Donny_44 (B5), DuchessDung_43 (B1), Duggie_44 (B1), Durga_45 (B1), EastView9101_44 (B5), Emiris_45 (B1), EmpTee_45 (B1), Eremos_45 (B1), Etaye_45 (B1), Eugenia_45 (B1), Fang_45 (B1), FluffyNinja_45 (B1), Fozzie_44 (B1), Frankicide_45 (B1), Freya_44 (B1), FriarPreacher_44 (B1), Fringe_45 (B1), FugateOSU_44 (B1), Funsized_46 (B9), Gareth_44 (B1), GeneCoco_45 (B1), Giraffe_45 (B1), Gophee_45 (B1), Grand2040_44 (B1), Gwilliam_46 (B1), Gyarad_0045 (B1), HSavage_45 (B1), Haimas_45 (B1), Haleema_44 (B1), Hamish_45 (B1), Hartsy_45 (B1), Harvey_45 (B1), Hashim76_47 (B13), Held_45 (B1), HenryJackson_44 (B1), Hertubise_45 (B1), Hetaeria_45 (B1), HighStump_44 (B1), Hocus_44 (B1), Horchata_45 (B1), Hosp_035 (B6), ImtiyazSitla_44 (B1), Imvubu_36 (B10), Inchworm_45 (B1), Indlovu_42 (B11), Inverness_45 (B1), Iridoclysis_45 (B1), IsaacEli_45 (B1), JDog_44 (B1), JacAttac_45 (B1), JakeO_44 (B1), JangoPhett_45 (B1), Jillium_44 (B1), Jiminy_44 (B1), Jiraiya_46 (B1), Jolie1_037 (B6), KLucky39_45 (B1), Kahve_44 (B1), Kailash_45 (B1), Katniss_45 (B1), KayaCho_37 (B6), Keitherie_45 (B1), Kikipoo_45 (B1), Kimbrough_45 (B1), KingTut_36 (B1), KingVeVeVe_45 (B1), KlimbOn_45 (B1), Kloppinator_45 (B1), Knocker_45 (B9), Kwadwo_44 (B1), Kwksand96_44 (B1), Labeouficaum_44 (B1), LasagnaCat_45 (B1), Lasso_45 (B1), LeeLot_45 (B1), Lego3393_44 (B1), Legolas_44 (B1), LeiMonet_46 (B1), LemonSlice_45 (B1), LilMcDreamy_41 (B12), Longacauda_44 (B1), Lopsy_44 (B1), LostAndPhound_44 (B1), LuckyMarjie_44 (B1), Lulumae_44 (B1), Lulwa_45 (B1), Lumine_44 (B1), MRabcd_44 (B1), Mag7_44 (B1), Magic8_45 (B1), Mana_44 (B1), Manad_44 (B1), Maru_44 (B1), Maskar_44 (B1), Matalotodo_45 (B1), Mcshane_44 (B1), Mecca_44 (B1), Megamind20_45 (B1), Megatron_45 (B1), Melc17_45 (B1), MelsMeow_44 (B1), Mesh1_45 (B1), MichaelPhcott_44 (B1), Mikota_45 (B1), MiniBoss_45 (B1), MitKao_45 (B1), Morgushi_45 (B1), Morty_45 (B1), Mosaic_44 (B1), MrPhizzler_44 (B1), Mulan_44 (B1), Murdoc_45 (B1), Mutante_44 (B1), Mysterious_45 (B5), Nacho_0045 (B1), Nangang_43 (B5), Newman_45 (B1), Nicole21_45 (B1), Numberten_45 (B1), Nyala_44 (B1), OSmaximus_45 (B1), Olak_45 (B1), Oline_44 (B1), Olive_45 (B1), OliverWalter_45 (B1), Omniscient_45 (B1), Oosterbaan_45 (B1), Orfeu_45 (B1), Orion_45 (B1), Orwigg_45 (B1), PG1_45 (B1), Pacifista_47 (B1), PenguinLover67_46 (B9), Phamished_45 (B1), Phareon_45 (B1), PhatCats2014_45 (B1), PhatLouie_45 (B1), Phelemich_43 (B5), PhenghisKhan_44 (B1), Pherdinand_45 (B1), Phergie_44 (B1), Phipps_45 (B1), Phleuron_44 (B1), PhrankReynolds_43 (B1), PhrodoBaggins_44 (B1), Phunky_45 (B1), Piglet_0044 (B1), PinheadLarry_45 (B1), Pinkman_44 (B1), Pipsqueak_45 (B1), Placalicious_44 (B1), Plmatters_45 (B1), Podrick_45 (B1), Pops_45 (B1), Potter_44 (B1), Prickles_45 (B1), ProfessorX_45 (B1), Puhltonio_45 (B1), QueenBeane_45 (B1), Quesadilla_46 (B9), Quisquiliae_45

(B1), RedMaple_44 (B1), Reprobate_44 (B5), Rich_42 (B5), Riggan_45 (B1), Rimu_47 (B1), Robyn_44 (B1), Roliet_45 (B1), Roscoe_46 (B1), Roy17_45 (B1), SDcharge11_45 (B1), Saguario_45 (B7), Samaymay_45 (B1), SassyCat97_44 (B1), Schadenfreude_44 (B1), Schueller_45 (B1), Scoot17C_45 (B1), Scrick_45 (B1), Selr12_46 (B1), Serendipitous_43 (B5), Serendipity_45 (B1), Serpentine_0045 (B1), Sheila_45 (B1), ShiVal_45 (B1), Sigman_45 (B1), Simielle_44 (B1), SirJeffery_44 (B5), Skippy_45 (B1), Slatt_45 (B1), Soile_45 (B1), Solosis_44 (B1), Sophia_44 (B1), Soto_45 (B1), Spartan300_45 (B1), Squid_45 (B1), Squiggle_45 (B1), StinkyVeggy_45 (B5), Struggle_44 (B1), Suffolk_45 (B1), Suigeneris_44 (B5), Surely_45 (B1), Swiphy_47 (B1), Swish_45 (B1), TallGrassMM_45 (B1), Telesworld_44 (B1), Thora_45 (B1), ThreeOh3D2_45 (B1), Thunderbird_45 (B1), Timmi_44 (B1), TomBombadil_45 (B1), Tomlarah_45 (B1), Toni_44 (B1), Tooj_45 (B1), True_44 (B1), Trypo_45 (B1), TyrionL_44 (B1), UAch1_45 (B1), UncleHowie_45 (B1), Usavi_45 (B1), Vaishali24_44 (B1), Valjean_45 (B1), Vaticameos_41 (B1), Veritas_44 (B1), Virapocalypse_45 (B1), Virgeve_44 (B1), Vista_45 (B1), Vivaldi_45 (B1), Vortex_45 (B1), Wallhey_44 (B1), Waterdiva_45 (B1), Weher20_45 (B1), Windsor_44 (B1), Xavier_44 (B1), Yoshand_45 (B1), YouGoGlencoco_45 (B1), Zaider_46 (B1), Zelda_45 (B1), Zenteno07_48 (B13), Zonia_45 (B1),

Start 53:

- Found in 33 of 557 (5.9%) of genes in pham
- Manual Annotations of this start: 23 of 505
- Called 87.9% of time when present
- Phage (with cluster) where this start called: Ahwei_39 (B4), AlanGrant_42 (B4), Apex_41 (B4), Austelle_41 (B4), BobbyK_41 (B4), BrownCNA_42 (B4), ChrisnMich_40 (B4), Cooper_41 (B4), Fortunato_41 (B4), Frederick_40 (B4), Hangman_40 (B4), Heath_39 (B4), Hydro_40 (B4), JAMaL_40 (B4), JaguarMi_40 (B4), Lolalove_40 (B4), Magpie_39 (B4), Mithril_40 (B4), Mudslide_40 (B4), Nanao_39 (B4), Nigel_39 (B4), Poster_39 (B4), Prince_41 (B4), RawrgerThat_41 (B4), Stinger_39 (B4), Vincenzo_41 (B4), VioletZ_41 (B4), Waleliano_40 (B4), Zemanar_41 (B4),

Start 54:

- Found in 14 of 557 (2.5%) of genes in pham
- Manual Annotations of this start: 13 of 505
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clap_30 (CZ2), Cynthia_30 (CZ2), Ebert_31 (CZ2), GemG_30 (CZ2), Gizermo_30 (CZ2), Haley23_30 (CZ2), Mocha12_30 (CZ2), Pine5_39 (singleton), Sahara_29 (CZ2), Savage_30 (CZ2), Sproutie_30 (CZ2), TuertoX_30 (CZ2), Vasanti_31 (CZ2), Whiteclaw_30 (CZ2),

Start 56:

- Found in 37 of 557 (6.6%) of genes in pham
- Manual Annotations of this start: 29 of 505
- Called 83.8% of time when present
- Phage (with cluster) where this start called: Allegro_44 (B2), Ares_44 (B2), Bananafish_44 (B2), Blocker23_44 (B2), Boyle_44 (B2), Brownie5_44 (B2), Calamitous_44 (B2), Coffee_44 (B2), Eaglehorse_44 (B2), Faze9_43 (B2), FrenchFry_44 (B2), Glass_44 (B2), Godines_44 (B2), Hedgerow_44 (B2), Holeinone_44 (B2), ItsyBitsy1_44 (B2), Kaleb_44 (B2), Kheth_44 (B2), Lars_44 (B2), Laurie_43 (B2), Lephleur_44 (B2), LizLemon_44 (B2), MasterPo_44 (B2), Opia_44 (B2), Phantasmagoria_44 (B2), Rhinoforte_44 (B2), Sabella_43 (B2), TA17A_44 (B2), Tinciduntolum_45 (B2), Tres_44 (B2), West99_44 (B2),

Start 57:

- Found in 21 of 557 (3.8%) of genes in pham
- Manual Annotations of this start: 18 of 505
- Called 95.2% of time when present
- Phage (with cluster) where this start called: Chipper1996_370 (AR), Chocolat_37 (AR), Chubster_37 (AR), Colucci_37 (AR), Conboy_37 (AR), DrYang_38 (AR), EdgarPoe_37 (AR), HumptyDumpty_37 (AR), JaNo_37 (AR), JayCookie_37 (AR), KBurrousTX_37 (AR), Kabreeze_37 (AR), Linus_37 (AR), Lymara_37 (AR), Mordred_37 (AR), MoyaNatalis_37 (AR), PrincessTrina_37 (AR), RosiePosie_37 (AR), Scavito_37 (AR), Tophat_37 (AR),

Start 60:

- Found in 6 of 557 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 505
- Called 16.7% of time when present
- Phage (with cluster) where this start called: LonelyBoi_35 (CY),

Start 61:

- Found in 3 of 557 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 505
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brynnie_25 (AS1), Jamun_25 (AS1), Vulpecula_25 (AS1),

Start 62:

- Found in 3 of 557 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 505
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shambre1_30 (singleton), Spooky_39 (DN2), Squiddly_40 (DN2),

Start 63:

- Found in 12 of 557 (2.2%) of genes in pham
- Manual Annotations of this start: 10 of 505
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Avani_28 (F2), Bipolar_22 (F1), Che9d_28 (F2), Demsculpinboyz_28 (F2), Kenuha5_22 (F1), Kersh_23 (F1), Ogopogo_25 (F1), Pollywog_25 (F1), ShroomBoi_22 (F1), Yoshi_28 (F2),

Start 64:

- Found in 1 of 557 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 505
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RayTheFireFly_38 (DB),

Start 66:

- Found in 4 of 557 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 505
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kuleana_27 (AS2), Leona_25 (AS3), PhluffyCoco_26 (AS3), RedFox_26 (AS3),

Start 67:

- Found in 13 of 557 (2.3%) of genes in pham
- Manual Annotations of this start: 3 of 505
- Called 23.1% of time when present
- Phage (with cluster) where this start called: Abidatro_27 (AS1), Basilisk_26 (AS1), Galaxy_26 (AS1),

Start 68:

- Found in 40 of 557 (7.2%) of genes in pham
- Manual Annotations of this start: 4 of 505
- Called 15.0% of time when present
- Phage (with cluster) where this start called: Apricot_38 (DN3), BENtherdunthat_38 (DN1), Crater_36 (DN3), Frickyeah_39 (DN1), Hugley_32 (CZ1), Phistory_39 (DN1),

Start 69:

- Found in 352 of 557 (63.2%) of genes in pham
- Manual Annotations of this start: 13 of 505
- Called 4.3% of time when present
- Phage (with cluster) where this start called: Amelia_27 (AS2), Andrew_28 (AS3), Catfish_31 (CU5), Coral_26 (AS2), Cote_27 (AS2), Daob_27 (AS2), Dice_46 (B1), Lunar_27 (AS2), Madiba_23 (F1), Melons_27 (AS2), Orcanus_26 (AS1), Polka_26 (AS2), Ricotta_45 (B1), TaylorSipht_26 (AS1), ThetaBob_24 (F4),

Start 71:

- Found in 44 of 557 (7.9%) of genes in pham
- Manual Annotations of this start: 3 of 505
- Called 6.8% of time when present
- Phage (with cluster) where this start called: Arbiter_43 (B2), Qyrzula_41 (B2), Rosebush_43 (B2),

Summary by clusters:

There are 36 clusters represented in this pham: DN, singleton, CZ2, CZ1, DB, CZ8, B12, B13, B10, B11, DR, CU5, I2, DN1, DN3, DN2, AS3, AS2, AS1, P6, N, CY, AR, Z, F1, F2, F4, B4, B5, B6, B7, B1, B2, B3, B8, B9,

Info for manual annotations of cluster AR:

- Start number 57 was manually annotated 18 times for cluster AR.

Info for manual annotations of cluster AS1:

- Start number 61 was manually annotated 3 times for cluster AS1.
- Start number 67 was manually annotated 3 times for cluster AS1.
- Start number 69 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 66 was manually annotated 1 time for cluster AS2.
- Start number 69 was manually annotated 7 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 66 was manually annotated 2 times for cluster AS3.
- Start number 69 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster B1:

- Start number 52 was manually annotated 253 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 52 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 52 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 52 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 52 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 56 was manually annotated 29 times for cluster B2.
- Start number 71 was manually annotated 3 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 38 was manually annotated 44 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 53 was manually annotated 23 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 52 was manually annotated 8 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 52 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:

- Start number 52 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 50 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 52 was manually annotated 5 times for cluster B9.

Info for manual annotations of cluster CU5:

- Start number 69 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CY:

- Start number 46 was manually annotated 1 time for cluster CY.
- Start number 60 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CZ1:

- Start number 46 was manually annotated 17 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 54 was manually annotated 13 times for cluster CZ2.

Info for manual annotations of cluster CZ8:

- Start number 46 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DB:

- Start number 64 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DN:

- Start number 46 was manually annotated 4 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 46 was manually annotated 11 times for cluster DN1.
- Start number 68 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 62 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 68 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DR:

- Start number 35 was manually annotated 5 times for cluster DR.
- Start number 39 was manually annotated 5 times for cluster DR.
- Start number 41 was manually annotated 7 times for cluster DR.
- Start number 50 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster F1:

- Start number 63 was manually annotated 6 times for cluster F1.
- Start number 69 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 63 was manually annotated 4 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 69 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster I2:

- Start number 49 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:

- Start number 49 was manually annotated 2 times for cluster N.

Info for manual annotations of cluster P6:

- Start number 49 was manually annotated 1 time for cluster P6.
- Start number 51 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster Z:

- Start number 44 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_7 Start: 3414, Stop: 3172, Start Num: 44

Candidate Starts for 32HC_7:

(Start: 39 @3423 has 5 MA's), (Start: 44 @3414 has 1 MA's), (Start: 60 @3384 has 1 MA's), (90, 3291), (94, 3273),

Gene: 39HC_037 Start: 36987, Stop: 36790, Start Num: 52

Candidate Starts for 39HC_037:

(Start: 52 @36987 has 273 MA's), (Start: 67 @36975 has 3 MA's), (78, 36948), (82, 36930), (92, 36897),

Gene: 40BC_037 Start: 36987, Stop: 36790, Start Num: 52

Candidate Starts for 40BC_037:

(Start: 52 @36987 has 273 MA's), (Start: 67 @36975 has 3 MA's), (78, 36948), (82, 36930), (92, 36897),

Gene: ABU_45 Start: 39190, Stop: 38975, Start Num: 52

Candidate Starts for ABU_45:

(18, 39292), (Start: 52 @39190 has 273 MA's), (Start: 69 @39160 has 13 MA's), (82, 39115),

Gene: Abidatro_27 Start: 19710, Stop: 19528, Start Num: 67

Candidate Starts for Abidatro_27:

(45, 19749), (Start: 67 @19710 has 3 MA's),

Gene: Abinghost_43 Start: 39027, Stop: 38791, Start Num: 38

Candidate Starts for Abinghost_43:

(Start: 38 @39027 has 44 MA's), (73, 38970), (89, 38904), (92, 38898),

Gene: AbsoluteMadLad_44 Start: 39199, Stop: 38984, Start Num: 52

Candidate Starts for AbsoluteMadLad_44:

(Start: 52 @39199 has 273 MA's), (Start: 69 @39169 has 13 MA's), (82, 39124),

Gene: Acadian_44 Start: 39648, Stop: 39439, Start Num: 52

Candidate Starts for Acadian_44:

(16, 39762), (18, 39756), (Start: 52 @39648 has 273 MA's), (Start: 69 @39633 has 13 MA's), (75, 39621), (82, 39588),

Gene: Adriana_45 Start: 39188, Stop: 38973, Start Num: 52

Candidate Starts for Adriana_45:

(18, 39290), (Start: 52 @39188 has 273 MA's), (Start: 69 @39158 has 13 MA's), (82, 39113),

Gene: Aelin_44 Start: 38754, Stop: 38539, Start Num: 52

Candidate Starts for Aelin_44:

(18, 38856), (Start: 52 @38754 has 273 MA's), (Start: 69 @38724 has 13 MA's), (82, 38679),

Gene: Ahwei_39 Start: 38171, Stop: 37965, Start Num: 53

Candidate Starts for Ahwei_39:

(Start: 53 @38171 has 23 MA's), (Start: 69 @38150 has 13 MA's), (78, 38123), (82, 38105), (86, 38087), (95, 38057), (97, 38051), (99, 38030),

Gene: Akoma_43 Start: 39031, Stop: 38795, Start Num: 38

Candidate Starts for Akoma_43:

(Start: 38 @39031 has 44 MA's), (73, 38974), (89, 38908), (92, 38902),

Gene: AlanGrant_42 Start: 39951, Stop: 39745, Start Num: 53

Candidate Starts for AlanGrant_42:

(Start: 53 @39951 has 23 MA's), (Start: 69 @39930 has 13 MA's), (73, 39924), (78, 39903), (82, 39885), (84, 39876), (86, 39867), (95, 39837), (96, 39834), (97, 39831),

Gene: Allegro_44 Start: 39432, Stop: 39226, Start Num: 56

Candidate Starts for Allegro_44:

(Start: 56 @39432 has 29 MA's), (Start: 71 @39405 has 3 MA's), (73, 39402), (86, 39348), (96, 39315),

Gene: AltPhacts_45 Start: 39177, Stop: 38962, Start Num: 52

Candidate Starts for AltPhacts_45:

(18, 39279), (Start: 52 @39177 has 273 MA's), (Start: 69 @39147 has 13 MA's), (82, 39102),

Gene: Altwerkus_44 Start: 38878, Stop: 38663, Start Num: 52

Candidate Starts for Altwerkus_44:

(Start: 52 @38878 has 273 MA's), (Start: 69 @38848 has 13 MA's), (82, 38803),

Gene: Amelia_27 Start: 19057, Stop: 18836, Start Num: 69

Candidate Starts for Amelia_27:

(Start: 69 @19057 has 13 MA's),

Gene: AnClar_39 Start: 35606, Stop: 35379, Start Num: 39

Candidate Starts for AnClar_39:

(Start: 39 @35606 has 5 MA's), (91, 35489), (102, 35420),

Gene: AnarQue_40 Start: 34838, Stop: 34584, Start Num: 41

Candidate Starts for AnarQue_40:

(26, 34880), (Start: 41 @34838 has 7 MA's), (Start: 71 @34790 has 3 MA's), (84, 34739), (89, 34721), (97, 34694),

Gene: Anderson_45 Start: 39183, Stop: 38968, Start Num: 52

Candidate Starts for Anderson_45:

(18, 39285), (Start: 52 @39183 has 273 MA's), (Start: 69 @39153 has 13 MA's), (82, 39108),

Gene: Andre_45 Start: 39182, Stop: 38967, Start Num: 52

Candidate Starts for Andre_45:

(Start: 52 @39182 has 273 MA's), (Start: 69 @39152 has 13 MA's), (82, 39107), (92, 39074),

Gene: Andrew_28 Start: 19161, Stop: 18955, Start Num: 69

Candidate Starts for Andrew_28:

(Start: 69 @19161 has 13 MA's),

Gene: Antonia_44 Start: 38754, Stop: 38539, Start Num: 52

Candidate Starts for Antonia_44:

(18, 38856), (Start: 52 @38754 has 273 MA's), (Start: 69 @38724 has 13 MA's), (82, 38679),

Gene: Antonio_35 Start: 29354, Stop: 29118, Start Num: 46

Candidate Starts for Antonio_35:

(Start: 46 @29354 has 36 MA's), (Start: 68 @29312 has 4 MA's), (77, 29291), (85, 29249), (98, 29201), (107, 29129),

Gene: Apex_41 Start: 39377, Stop: 39171, Start Num: 53

Candidate Starts for Apex_41:

(Start: 53 @39377 has 23 MA's), (Start: 69 @39356 has 13 MA's), (78, 39329), (82, 39311), (86, 39293), (95, 39263), (97, 39257),

Gene: Apizium_44 Start: 38943, Stop: 38728, Start Num: 52

Candidate Starts for Apizium_44:

(Start: 52 @38943 has 273 MA's), (Start: 69 @38913 has 13 MA's), (82, 38868), (92, 38835),

Gene: Apricot_38 Start: 28904, Stop: 28710, Start Num: 68

Candidate Starts for Apricot_38:

(Start: 46 @28946 has 36 MA's), (Start: 68 @28904 has 4 MA's), (77, 28883), (85, 28841), (98, 28793),

Gene: Arbiter_43 Start: 39491, Stop: 39312, Start Num: 71

Candidate Starts for Arbiter_43:

(Start: 56 @39518 has 29 MA's), (Start: 71 @39491 has 3 MA's), (73, 39488), (86, 39434), (96, 39401),

Gene: Ares_44 Start: 39502, Stop: 39296, Start Num: 56

Candidate Starts for Ares_44:

(Start: 56 @39502 has 29 MA's), (Start: 71 @39475 has 3 MA's), (73, 39472), (86, 39418), (96, 39385),

Gene: Asapag_39 Start: 30538, Stop: 30302, Start Num: 46

Candidate Starts for Asapag_39:

(Start: 46 @30538 has 36 MA's), (Start: 68 @30496 has 4 MA's), (77, 30475), (85, 30433), (98, 30385),

Gene: Ashraf_44 Start: 38747, Stop: 38532, Start Num: 52

Candidate Starts for Ashraf_44:

(Start: 52 @38747 has 273 MA's), (Start: 69 @38717 has 13 MA's), (82, 38672), (92, 38639),

Gene: Athena_44 Start: 39778, Stop: 39542, Start Num: 38

Candidate Starts for Athena_44:

(Start: 38 @39778 has 44 MA's), (73, 39721), (89, 39655), (92, 39649),

Gene: Audrey_43 Start: 39027, Stop: 38791, Start Num: 38

Candidate Starts for Audrey_43:

(Start: 38 @39027 has 44 MA's), (73, 38970), (89, 38904), (92, 38898),

Gene: Austelle_41 Start: 39833, Stop: 39627, Start Num: 53

Candidate Starts for Austelle_41:

(Start: 53 @39833 has 23 MA's), (Start: 69 @39812 has 13 MA's), (78, 39785), (82, 39767), (86, 39749), (95, 39719), (97, 39713),

Gene: Avani_28 Start: 24082, Stop: 23903, Start Num: 63

Candidate Starts for Avani_28:

(Start: 51 @24106 has 1 MA's), (Start: 63 @24082 has 10 MA's), (Start: 69 @24076 has 13 MA's), (75, 24064), (78, 24049), (84, 24016), (103, 23920),

Gene: Axumite_38 Start: 32837, Stop: 32601, Start Num: 35

Candidate Starts for Axumite_38:

(34, 32840), (Start: 35 @32837 has 5 MA's), (47, 32816), (Start: 53 @32810 has 23 MA's), (Start: 67 @32786 has 3 MA's), (73, 32780), (96, 32690),

Gene: BENtherdunthat_38 Start: 28707, Stop: 28513, Start Num: 68
Candidate Starts for BENtherdunthat_38:
(Start: 46 @28749 has 36 MA's), (Start: 68 @28707 has 4 MA's), (77, 28686), (85, 28644), (98, 28596),

Gene: Badfish_45 Start: 39213, Stop: 38998, Start Num: 52
Candidate Starts for Badfish_45:
(18, 39315), (Start: 52 @39213 has 273 MA's), (Start: 69 @39183 has 13 MA's), (82, 39138),

Gene: Bae_43 Start: 39550, Stop: 39341, Start Num: 52
Candidate Starts for Bae_43:
(Start: 52 @39550 has 273 MA's), (Start: 69 @39535 has 13 MA's), (75, 39523), (82, 39490), (92, 39457),

Gene: Baloo_43 Start: 39030, Stop: 38794, Start Num: 38
Candidate Starts for Baloo_43:
(Start: 38 @39030 has 44 MA's), (73, 38973), (89, 38907), (92, 38901),

Gene: Bananafish_44 Start: 39438, Stop: 39232, Start Num: 56
Candidate Starts for Bananafish_44:
(Start: 56 @39438 has 29 MA's), (Start: 71 @39411 has 3 MA's), (73, 39408), (86, 39354), (96, 39321),

Gene: Banjo_44 Start: 38888, Stop: 38673, Start Num: 52
Candidate Starts for Banjo_44:
(Start: 52 @38888 has 273 MA's), (Start: 69 @38858 has 13 MA's), (82, 38813), (92, 38780),

Gene: Basato_46 Start: 39467, Stop: 39252, Start Num: 52
Candidate Starts for Basato_46:
(Start: 52 @39467 has 273 MA's), (Start: 69 @39437 has 13 MA's), (82, 39392),

Gene: Basilisk_26 Start: 20189, Stop: 19986, Start Num: 67
Candidate Starts for Basilisk_26:
(Start: 67 @20189 has 3 MA's),

Gene: BatStarr_34 Start: 29521, Stop: 29285, Start Num: 46
Candidate Starts for BatStarr_34:
(Start: 46 @29521 has 36 MA's), (Start: 68 @29479 has 4 MA's), (85, 29416), (98, 29368), (99, 29356),

Gene: BatteryCK_44 Start: 38807, Stop: 38592, Start Num: 52
Candidate Starts for BatteryCK_44:
(Start: 52 @38807 has 273 MA's), (Start: 69 @38777 has 13 MA's), (82, 38732),

Gene: Beaglebox_44 Start: 38909, Stop: 38694, Start Num: 52
Candidate Starts for Beaglebox_44:
(Start: 52 @38909 has 273 MA's), (Start: 69 @38879 has 13 MA's), (82, 38834), (92, 38801),

Gene: BearBQ_38 Start: 30173, Stop: 29937, Start Num: 46
Candidate Starts for BearBQ_38:
(Start: 46 @30173 has 36 MA's), (Start: 68 @30131 has 4 MA's), (77, 30110), (85, 30068), (98, 30020),

Gene: BeeGee_38 Start: 30304, Stop: 30068, Start Num: 46
Candidate Starts for BeeGee_38:
(Start: 46 @30304 has 36 MA's), (Start: 68 @30262 has 4 MA's), (77, 30241), (85, 30199), (98, 30151),

Gene: Ben11_42 Start: 38849, Stop: 38613, Start Num: 38
Candidate Starts for Ben11_42:
(Start: 38 @38849 has 44 MA's), (73, 38792), (89, 38726), (92, 38720),

Gene: Bernardo_44 Start: 39575, Stop: 39339, Start Num: 38
Candidate Starts for Bernardo_44:
(Start: 38 @39575 has 44 MA's), (73, 39518), (89, 39452), (92, 39446),

Gene: BiggityBass_38 Start: 35067, Stop: 34840, Start Num: 39
Candidate Starts for BiggityBass_38:
(31, 35082), (Start: 39 @35067 has 5 MA's), (91, 34950), (102, 34881),

Gene: Bipolar_22 Start: 24352, Stop: 24173, Start Num: 63
Candidate Starts for Bipolar_22:
(Start: 51 @24376 has 1 MA's), (Start: 63 @24352 has 10 MA's), (Start: 69 @24346 has 13 MA's), (78, 24319), (84, 24286), (103, 24190),

Gene: BirdsNest_46 Start: 37877, Stop: 37662, Start Num: 52
Candidate Starts for BirdsNest_46:
(Start: 52 @37877 has 273 MA's), (Start: 69 @37853 has 13 MA's), (78, 37826), (84, 37799), (99, 37733), (105, 37703),

Gene: Bishoperium_44 Start: 38897, Stop: 38682, Start Num: 52
Candidate Starts for Bishoperium_44:
(18, 38999), (Start: 52 @38897 has 273 MA's), (Start: 69 @38867 has 13 MA's), (82, 38822),

Gene: BlackStallion_45 Start: 39199, Stop: 38984, Start Num: 52
Candidate Starts for BlackStallion_45:
(Start: 52 @39199 has 273 MA's), (Start: 69 @39169 has 13 MA's), (82, 39124), (92, 39091),

Gene: Blocker23_44 Start: 39556, Stop: 39350, Start Num: 56
Candidate Starts for Blocker23_44:
(Start: 56 @39556 has 29 MA's), (Start: 71 @39529 has 3 MA's), (73, 39526), (86, 39472), (96, 39439),

Gene: BlueHusk_45 Start: 38696, Stop: 38481, Start Num: 52
Candidate Starts for BlueHusk_45:
(Start: 52 @38696 has 273 MA's), (Start: 69 @38666 has 13 MA's), (82, 38621),

Gene: Bluephacebaby_44 Start: 38894, Stop: 38679, Start Num: 52
Candidate Starts for Bluephacebaby_44:
(Start: 52 @38894 has 273 MA's), (Start: 69 @38864 has 13 MA's), (82, 38819),

Gene: BobbyK_41 Start: 39202, Stop: 38996, Start Num: 53
Candidate Starts for BobbyK_41:
(Start: 53 @39202 has 23 MA's), (Start: 69 @39181 has 13 MA's), (78, 39154), (82, 39136), (86, 39118), (95, 39088), (97, 39082),

Gene: Boehler_45 Start: 39200, Stop: 38985, Start Num: 52

Candidate Starts for Boehler_45:

(18, 39302), (Start: 52 @39200 has 273 MA's), (Start: 69 @39170 has 13 MA's), (82, 39125),

Gene: Bosnia_34 Start: 29521, Stop: 29285, Start Num: 46

Candidate Starts for Bosnia_34:

(Start: 46 @29521 has 36 MA's), (Start: 68 @29479 has 4 MA's), (85, 29416), (98, 29368), (99, 29356),

Gene: Boyle_44 Start: 39557, Stop: 39351, Start Num: 56

Candidate Starts for Boyle_44:

(Start: 56 @39557 has 29 MA's), (Start: 71 @39530 has 3 MA's), (73, 39527), (86, 39473), (96, 39440),

Gene: Briakila_44 Start: 39797, Stop: 39561, Start Num: 38

Candidate Starts for Briakila_44:

(Start: 38 @39797 has 44 MA's), (73, 39740), (89, 39674), (92, 39668),

Gene: Brilliant_45 Start: 38905, Stop: 38690, Start Num: 52

Candidate Starts for Brilliant_45:

(Start: 52 @38905 has 273 MA's), (Start: 69 @38875 has 13 MA's), (82, 38830), (92, 38797),

Gene: BrownCNA_42 Start: 39463, Stop: 39257, Start Num: 53

Candidate Starts for BrownCNA_42:

(Start: 53 @39463 has 23 MA's), (Start: 69 @39442 has 13 MA's), (78, 39415), (82, 39397), (86, 39379), (95, 39349), (97, 39343),

Gene: Brownie5_44 Start: 39563, Stop: 39357, Start Num: 56

Candidate Starts for Brownie5_44:

(Start: 56 @39563 has 29 MA's), (Start: 71 @39536 has 3 MA's), (73, 39533), (86, 39479), (96, 39446),

Gene: Brynnie_25 Start: 19788, Stop: 19591, Start Num: 61

Candidate Starts for Brynnie_25:

(Start: 61 @19788 has 3 MA's),

Gene: Buckeye_45 Start: 39217, Stop: 39002, Start Num: 52

Candidate Starts for Buckeye_45:

(Start: 52 @39217 has 273 MA's), (Start: 69 @39187 has 13 MA's), (82, 39142),

Gene: Budski_39 Start: 30500, Stop: 30264, Start Num: 46

Candidate Starts for Budski_39:

(Start: 46 @30500 has 36 MA's), (Start: 68 @30458 has 4 MA's), (77, 30437), (85, 30395), (98, 30347),

Gene: Burr_44 Start: 38894, Stop: 38679, Start Num: 52

Candidate Starts for Burr_44:

(Start: 52 @38894 has 273 MA's), (Start: 69 @38864 has 13 MA's), (82, 38819),

Gene: Butters_32 Start: 26751, Stop: 26518, Start Num: 49

Candidate Starts for Butters_32:

(21, 26826), (23, 26823), (24, 26817), (43, 26760), (Start: 49 @26751 has 4 MA's), (Start: 60 @26727 has 1 MA's), (80, 26679), (98, 26601), (107, 26529),

Gene: CRB2_46 Start: 41727, Stop: 41521, Start Num: 52

Candidate Starts for CRB2_46:

(Start: 52 @41727 has 273 MA's), (Start: 69 @41706 has 13 MA's), (82, 41661), (84, 41652), (97, 41607), (105, 41556),

Gene: CaiB_40 Start: 34824, Stop: 34570, Start Num: 41

Candidate Starts for CaiB_40:

(26, 34866), (Start: 41 @34824 has 7 MA's), (Start: 71 @34776 has 3 MA's), (84, 34725), (89, 34707), (97, 34680),

Gene: Calamitous_44 Start: 39443, Stop: 39237, Start Num: 56

Candidate Starts for Calamitous_44:

(Start: 56 @39443 has 29 MA's), (Start: 71 @39416 has 3 MA's), (73, 39413), (86, 39359), (96, 39326),

Gene: CamL_45 Start: 39195, Stop: 38980, Start Num: 52

Candidate Starts for CamL_45:

(Start: 52 @39195 has 273 MA's), (Start: 69 @39165 has 13 MA's), (82, 39120), (92, 39087),

Gene: CampRoach_45 Start: 39185, Stop: 38970, Start Num: 52

Candidate Starts for CampRoach_45:

(18, 39287), (Start: 52 @39185 has 273 MA's), (Start: 69 @39155 has 13 MA's), (82, 39110),

Gene: Cannibal_45 Start: 39178, Stop: 38963, Start Num: 52

Candidate Starts for Cannibal_45:

(Start: 52 @39178 has 273 MA's), (Start: 69 @39148 has 13 MA's), (82, 39103), (92, 39070),

Gene: Carthage_43 Start: 38107, Stop: 37892, Start Num: 52

Candidate Starts for Carthage_43:

(Start: 52 @38107 has 273 MA's), (Start: 69 @38077 has 13 MA's), (82, 38032), (92, 37999),

Gene: Casbah_42 Start: 38879, Stop: 38643, Start Num: 38

Candidate Starts for Casbah_42:

(Start: 38 @38879 has 44 MA's), (73, 38822), (89, 38756), (92, 38750),

Gene: Catfish_31 Start: 25984, Stop: 25784, Start Num: 69

Candidate Starts for Catfish_31:

(9, 26254), (36, 26041), (Start: 69 @25984 has 13 MA's), (75, 25972), (92, 25897),

Gene: ChaChing_43 Start: 39042, Stop: 38806, Start Num: 38

Candidate Starts for ChaChing_43:

(Start: 38 @39042 has 44 MA's), (73, 38985), (89, 38919), (92, 38913),

Gene: Chaelin_45 Start: 38892, Stop: 38677, Start Num: 52

Candidate Starts for Chaelin_45:

(18, 38994), (Start: 52 @38892 has 273 MA's), (Start: 69 @38862 has 13 MA's), (82, 38817),

Gene: Chah_46 Start: 39212, Stop: 38997, Start Num: 52

Candidate Starts for Chah_46:

(18, 39314), (Start: 52 @39212 has 273 MA's), (Start: 69 @39182 has 13 MA's), (82, 39137),

Gene: Chandler_43 Start: 39810, Stop: 39574, Start Num: 38
Candidate Starts for Chandler_43:
(Start: 38 @39810 has 44 MA's), (73, 39753), (89, 39687), (92, 39681),

Gene: Charles1_45 Start: 39180, Stop: 38965, Start Num: 52
Candidate Starts for Charles1_45:
(18, 39282), (Start: 52 @39180 has 273 MA's), (Start: 69 @39150 has 13 MA's), (82, 39105),

Gene: CharlieGBrown_44 Start: 38770, Stop: 38555, Start Num: 52
Candidate Starts for CharlieGBrown_44:
(18, 38872), (Start: 52 @38770 has 273 MA's), (Start: 69 @38740 has 13 MA's), (82, 38695),

Gene: CharlottesWeb_38 Start: 32763, Stop: 32527, Start Num: 35
Candidate Starts for CharlottesWeb_38:
(30, 32778), (34, 32766), (Start: 35 @32763 has 5 MA's), (Start: 67 @32712 has 3 MA's), (73, 32706),
(96, 32616),

Gene: Che9d_28 Start: 24090, Stop: 23911, Start Num: 63
Candidate Starts for Che9d_28:
(Start: 51 @24114 has 1 MA's), (Start: 63 @24090 has 10 MA's), (Start: 69 @24084 has 13 MA's),
(78, 24057), (84, 24024), (103, 23928),

Gene: CheeseTouch_37 Start: 27100, Stop: 26864, Start Num: 46
Candidate Starts for CheeseTouch_37:
(Start: 46 @27100 has 36 MA's), (Start: 68 @27058 has 4 MA's), (77, 27037), (85, 26995), (98,
26947),

Gene: CheetO_45 Start: 39194, Stop: 38979, Start Num: 52
Candidate Starts for CheetO_45:
(18, 39296), (Start: 52 @39194 has 273 MA's), (Start: 69 @39164 has 13 MA's), (82, 39119),

Gene: Cher_44 Start: 38917, Stop: 38702, Start Num: 52
Candidate Starts for Cher_44:
(Start: 52 @38917 has 273 MA's), (Start: 69 @38887 has 13 MA's), (82, 38842), (92, 38809),

Gene: Childish_44 Start: 38920, Stop: 38705, Start Num: 52
Candidate Starts for Childish_44:
(Start: 52 @38920 has 273 MA's), (Start: 69 @38890 has 13 MA's), (82, 38845), (92, 38812),

Gene: Chipper1996_370 Start: 30385, Stop: 30167, Start Num: 57
Candidate Starts for Chipper1996_370:
(14, 30535), (19, 30490), (20, 30487), (29, 30448), (42, 30415), (Start: 57 @30385 has 18 MA's), (70,
30364), (81, 30328), (84, 30313), (87, 30298), (92, 30286),

Gene: Chocolat_37 Start: 30385, Stop: 30167, Start Num: 57
Candidate Starts for Chocolat_37:
(14, 30535), (19, 30490), (20, 30487), (29, 30448), (42, 30415), (Start: 57 @30385 has 18 MA's), (70,
30364), (81, 30328), (84, 30313), (87, 30298), (92, 30286),

Gene: Chorkpop_45 Start: 38916, Stop: 38701, Start Num: 52
Candidate Starts for Chorkpop_45:
(18, 39018), (Start: 52 @38916 has 273 MA's), (Start: 69 @38886 has 13 MA's), (82, 38841),

Gene: ChrisnMich_40 Start: 38163, Stop: 37957, Start Num: 53

Candidate Starts for ChrisnMich_40:

(Start: 53 @38163 has 23 MA's), (Start: 69 @38142 has 13 MA's), (78, 38115), (82, 38097), (86, 38079), (95, 38049), (97, 38043), (99, 38022),

Gene: Chubster_37 Start: 30157, Stop: 29939, Start Num: 57

Candidate Starts for Chubster_37:

(14, 30307), (19, 30262), (20, 30259), (29, 30220), (42, 30187), (Start: 57 @30157 has 18 MA's), (70, 30136), (81, 30100), (84, 30085), (87, 30070), (92, 30058),

Gene: Chunky_45 Start: 39203, Stop: 38988, Start Num: 52

Candidate Starts for Chunky_45:

(Start: 52 @39203 has 273 MA's), (Start: 69 @39173 has 13 MA's), (82, 39128),

Gene: Chute_44 Start: 39241, Stop: 39026, Start Num: 52

Candidate Starts for Chute_44:

(18, 39343), (Start: 52 @39241 has 273 MA's), (Start: 69 @39211 has 13 MA's), (82, 39166),

Gene: Clap_30 Start: 25663, Stop: 25463, Start Num: 54

Candidate Starts for Clap_30:

(Start: 54 @25663 has 13 MA's), (75, 25642), (78, 25627), (81, 25615), (88, 25579),

Gene: CloverMinnie_40 Start: 34764, Stop: 34510, Start Num: 41

Candidate Starts for CloverMinnie_40:

(26, 34806), (Start: 41 @34764 has 7 MA's), (Start: 71 @34716 has 3 MA's), (84, 34665), (89, 34647), (97, 34620),

Gene: Cobra_45 Start: 39201, Stop: 38986, Start Num: 52

Candidate Starts for Cobra_45:

(Start: 52 @39201 has 273 MA's), (Start: 69 @39171 has 13 MA's), (82, 39126), (92, 39093),

Gene: Coffee_44 Start: 39546, Stop: 39340, Start Num: 56

Candidate Starts for Coffee_44:

(Start: 56 @39546 has 29 MA's), (Start: 71 @39519 has 3 MA's), (73, 39516), (86, 39462), (96, 39429),

Gene: Colbert_45 Start: 39256, Stop: 39041, Start Num: 52

Candidate Starts for Colbert_45:

(Start: 52 @39256 has 273 MA's), (Start: 69 @39226 has 13 MA's), (82, 39181),

Gene: Coletti_44 Start: 39241, Stop: 39026, Start Num: 52

Candidate Starts for Coletti_44:

(18, 39343), (Start: 52 @39241 has 273 MA's), (Start: 69 @39211 has 13 MA's), (82, 39166),

Gene: Colucci_37 Start: 29963, Stop: 29742, Start Num: 57

Candidate Starts for Colucci_37:

(5, 30272), (8, 30215), (11, 30194), (29, 30026), (30, 30020), (48, 29981), (Start: 57 @29963 has 18 MA's), (84, 29891), (87, 29876), (92, 29864), (97, 29843),

Gene: Compostia_44 Start: 39458, Stop: 39222, Start Num: 38

Candidate Starts for Compostia_44:

(Start: 38 @39458 has 44 MA's), (73, 39401), (89, 39335), (92, 39329),

Gene: Conboy_37 Start: 30384, Stop: 30166, Start Num: 57

Candidate Starts for Conboy_37:

(14, 30534), (19, 30489), (20, 30486), (29, 30447), (42, 30414), (Start: 57 @30384 has 18 MA's), (70, 30363), (81, 30327), (84, 30312), (87, 30297), (92, 30285),

Gene: Cooper_41 Start: 38382, Stop: 38176, Start Num: 53

Candidate Starts for Cooper_41:

(Start: 53 @38382 has 23 MA's), (Start: 69 @38361 has 13 MA's), (78, 38334), (82, 38316), (86, 38298), (95, 38268), (97, 38262),

Gene: Coral_26 Start: 18896, Stop: 18675, Start Num: 69

Candidate Starts for Coral_26:

(Start: 69 @18896 has 13 MA's),

Gene: Cornobble_44 Start: 38755, Stop: 38540, Start Num: 52

Candidate Starts for Cornobble_44:

(18, 38857), (Start: 52 @38755 has 273 MA's), (Start: 69 @38725 has 13 MA's), (82, 38680),

Gene: Corofin_43 Start: 39053, Stop: 38817, Start Num: 38

Candidate Starts for Corofin_43:

(Start: 38 @39053 has 44 MA's), (73, 38996), (89, 38930), (92, 38924),

Gene: Cosmolli16_44 Start: 38905, Stop: 38690, Start Num: 52

Candidate Starts for Cosmolli16_44:

(Start: 52 @38905 has 273 MA's), (Start: 69 @38875 has 13 MA's), (82, 38830),

Gene: Cote_27 Start: 19041, Stop: 18820, Start Num: 69

Candidate Starts for Cote_27:

(Start: 69 @19041 has 13 MA's),

Gene: Craff_45 Start: 39198, Stop: 38983, Start Num: 52

Candidate Starts for Craff_45:

(18, 39300), (Start: 52 @39198 has 273 MA's), (Start: 69 @39168 has 13 MA's), (82, 39123),

Gene: Crater_36 Start: 28423, Stop: 28229, Start Num: 68

Candidate Starts for Crater_36:

(Start: 46 @28465 has 36 MA's), (Start: 68 @28423 has 4 MA's), (76, 28405), (77, 28402), (85, 28360), (98, 28312), (99, 28300), (107, 28240),

Gene: Crownjwl_45 Start: 38971, Stop: 38756, Start Num: 52

Candidate Starts for Crownjwl_45:

(18, 39073), (Start: 52 @38971 has 273 MA's), (Start: 69 @38941 has 13 MA's), (82, 38896),

Gene: Cynthia_30 Start: 25663, Stop: 25463, Start Num: 54

Candidate Starts for Cynthia_30:

(Start: 54 @25663 has 13 MA's), (75, 25642), (78, 25627), (81, 25615), (88, 25579),

Gene: DaddyDaniels_45 Start: 38889, Stop: 38674, Start Num: 52

Candidate Starts for DaddyDaniels_45:

(18, 38991), (Start: 52 @38889 has 273 MA's), (Start: 69 @38859 has 13 MA's), (82, 38814),

Gene: Daffy_45 Start: 38920, Stop: 38705, Start Num: 52

Candidate Starts for Daffy_45:

(Start: 52 @38920 has 273 MA's), (Start: 69 @38890 has 13 MA's), (82, 38845), (92, 38812),

Gene: Daisy_43 Start: 39054, Stop: 38818, Start Num: 38

Candidate Starts for Daisy_43:

(Start: 38 @39054 has 44 MA's), (73, 38997), (89, 38931), (92, 38925),

Gene: Daka_46 Start: 39193, Stop: 38978, Start Num: 52

Candidate Starts for Daka_46:

(Start: 52 @39193 has 273 MA's), (Start: 69 @39163 has 13 MA's), (82, 39118),

Gene: Daob_27 Start: 19046, Stop: 18825, Start Num: 69

Candidate Starts for Daob_27:

(Start: 69 @19046 has 13 MA's),

Gene: Dati_45 Start: 38914, Stop: 38699, Start Num: 52

Candidate Starts for Dati_45:

(Start: 52 @38914 has 273 MA's), (Start: 69 @38884 has 13 MA's), (82, 38839),

Gene: Deenasa_43 Start: 39789, Stop: 39553, Start Num: 38

Candidate Starts for Deenasa_43:

(Start: 38 @39789 has 44 MA's), (73, 39732), (89, 39666), (92, 39660),

Gene: DelRivs_44 Start: 38915, Stop: 38700, Start Num: 52

Candidate Starts for DelRivs_44:

(18, 39017), (Start: 52 @38915 has 273 MA's), (Start: 69 @38885 has 13 MA's), (82, 38840),

Gene: Demsculpinboyz_28 Start: 24075, Stop: 23896, Start Num: 63

Candidate Starts for Demsculpinboyz_28:

(Start: 51 @24099 has 1 MA's), (Start: 63 @24075 has 10 MA's), (Start: 69 @24069 has 13 MA's), (78, 24042), (84, 24009), (103, 23913),

Gene: Derpp_44 Start: 38759, Stop: 38544, Start Num: 52

Candidate Starts for Derpp_44:

(Start: 52 @38759 has 273 MA's), (Start: 69 @38729 has 13 MA's), (82, 38684), (92, 38651),

Gene: Devonte_43 Start: 39018, Stop: 38782, Start Num: 38

Candidate Starts for Devonte_43:

(Start: 38 @39018 has 44 MA's), (73, 38961), (89, 38895), (92, 38889),

Gene: Dice_46 Start: 38864, Stop: 38679, Start Num: 69

Candidate Starts for Dice_46:

(Start: 52 @38894 has 273 MA's), (Start: 69 @38864 has 13 MA's), (82, 38819), (92, 38786),

Gene: DigitDog_43 Start: 39348, Stop: 39139, Start Num: 52

Candidate Starts for DigitDog_43:

(18, 39456), (Start: 52 @39348 has 273 MA's), (Start: 69 @39333 has 13 MA's), (75, 39321),

Gene: Dingo_45 Start: 39177, Stop: 38962, Start Num: 52

Candidate Starts for Dingo_45:

(Start: 52 @39177 has 273 MA's), (Start: 69 @39147 has 13 MA's), (82, 39102),

Gene: Dione_44 Start: 38899, Stop: 38684, Start Num: 52

Candidate Starts for Dione_44:

(Start: 52 @38899 has 273 MA's), (Start: 69 @38869 has 13 MA's), (82, 38824), (92, 38791),

Gene: DirtJuice_45 Start: 39183, Stop: 38968, Start Num: 52

Candidate Starts for DirtJuice_45:

(Start: 52 @39183 has 273 MA's), (Start: 69 @39153 has 13 MA's), (82, 39108),

Gene: Doddsville_45 Start: 38913, Stop: 38698, Start Num: 52

Candidate Starts for Doddsville_45:

(18, 39015), (Start: 52 @38913 has 273 MA's), (Start: 69 @38883 has 13 MA's), (82, 38838),

Gene: DoesntMatter_44 Start: 39186, Stop: 38971, Start Num: 52

Candidate Starts for DoesntMatter_44:

(18, 39288), (Start: 52 @39186 has 273 MA's), (Start: 69 @39156 has 13 MA's), (82, 39111),

Gene: DonSanchon_44 Start: 38893, Stop: 38678, Start Num: 52

Candidate Starts for DonSanchon_44:

(18, 38995), (Start: 52 @38893 has 273 MA's), (Start: 69 @38863 has 13 MA's), (82, 38818),

Gene: Donny_44 Start: 39653, Stop: 39444, Start Num: 52

Candidate Starts for Donny_44:

(16, 39767), (18, 39761), (Start: 52 @39653 has 273 MA's), (Start: 69 @39638 has 13 MA's), (75, 39626), (82, 39593),

Gene: DrYang_38 Start: 31723, Stop: 31505, Start Num: 57

Candidate Starts for DrYang_38:

(Start: 57 @31723 has 18 MA's), (78, 31675), (81, 31666), (84, 31651), (87, 31636), (92, 31624), (103, 31549),

Gene: DuchessDung_43 Start: 38047, Stop: 37832, Start Num: 52

Candidate Starts for DuchessDung_43:

(Start: 52 @38047 has 273 MA's), (Start: 69 @38017 has 13 MA's), (82, 37972), (92, 37939),

Gene: Duggie_44 Start: 38915, Stop: 38700, Start Num: 52

Candidate Starts for Duggie_44:

(18, 39017), (Start: 52 @38915 has 273 MA's), (Start: 69 @38885 has 13 MA's), (82, 38840),

Gene: Durga_45 Start: 39213, Stop: 38998, Start Num: 52

Candidate Starts for Durga_45:

(18, 39315), (Start: 52 @39213 has 273 MA's), (Start: 69 @39183 has 13 MA's), (82, 39138),

Gene: Eaglehorse_44 Start: 39470, Stop: 39264, Start Num: 56

Candidate Starts for Eaglehorse_44:

(Start: 56 @39470 has 29 MA's), (Start: 71 @39443 has 3 MA's), (73, 39440), (86, 39386), (96, 39353),

Gene: EastView9101_44 Start: 39303, Stop: 39094, Start Num: 52

Candidate Starts for EastView9101_44:

(16, 39417), (18, 39411), (Start: 52 @39303 has 273 MA's), (Start: 69 @39288 has 13 MA's), (75, 39276), (82, 39243),

Gene: Ebert_31 Start: 25587, Stop: 25387, Start Num: 54

Candidate Starts for Ebert_31:

(Start: 54 @25587 has 13 MA's), (75, 25566), (78, 25551), (81, 25539), (88, 25503),

Gene: Ecliptus_40 Start: 31004, Stop: 30768, Start Num: 46

Candidate Starts for Ecliptus_40:

(Start: 46 @31004 has 36 MA's), (Start: 68 @30962 has 4 MA's), (77, 30941), (85, 30899), (98, 30851),

Gene: EdgarPoe_37 Start: 30384, Stop: 30166, Start Num: 57

Candidate Starts for EdgarPoe_37:

(14, 30534), (19, 30489), (20, 30486), (29, 30447), (42, 30414), (Start: 57 @30384 has 18 MA's), (70, 30363), (81, 30327), (84, 30312), (87, 30297), (92, 30285),

Gene: Emiris_45 Start: 39181, Stop: 38966, Start Num: 52

Candidate Starts for Emiris_45:

(Start: 52 @39181 has 273 MA's), (Start: 69 @39151 has 13 MA's), (82, 39106), (92, 39073),

Gene: EmpTee_45 Start: 39193, Stop: 38978, Start Num: 52

Candidate Starts for EmpTee_45:

(18, 39295), (Start: 52 @39193 has 273 MA's), (Start: 69 @39163 has 13 MA's), (82, 39118),

Gene: Eremos_45 Start: 39192, Stop: 38977, Start Num: 52

Candidate Starts for Eremos_45:

(Start: 52 @39192 has 273 MA's), (Start: 69 @39162 has 13 MA's), (82, 39117),

Gene: Etaye_45 Start: 39183, Stop: 38968, Start Num: 52

Candidate Starts for Etaye_45:

(Start: 52 @39183 has 273 MA's), (Start: 69 @39153 has 13 MA's), (82, 39108),

Gene: Eudoria_35 Start: 29354, Stop: 29118, Start Num: 46

Candidate Starts for Eudoria_35:

(Start: 46 @29354 has 36 MA's), (Start: 68 @29312 has 4 MA's), (77, 29291), (85, 29249), (98, 29201), (107, 29129),

Gene: Eugenia_45 Start: 39202, Stop: 38987, Start Num: 52

Candidate Starts for Eugenia_45:

(18, 39304), (Start: 52 @39202 has 273 MA's), (Start: 69 @39172 has 13 MA's), (82, 39127), (92, 39094),

Gene: Evaa_38 Start: 33917, Stop: 33678, Start Num: 50

Candidate Starts for Evaa_38:

(37, 33941), (40, 33935), (Start: 50 @33917 has 2 MA's), (81, 33851), (102, 33746),

Gene: Eviarto_34 Start: 29497, Stop: 29261, Start Num: 46

Candidate Starts for Eviarto_34:

(Start: 46 @29497 has 36 MA's), (Start: 68 @29455 has 4 MA's), (85, 29392), (98, 29344), (99, 29332),

Gene: Fang_45 Start: 39206, Stop: 38991, Start Num: 52

Candidate Starts for Fang_45:

(18, 39308), (Start: 52 @39206 has 273 MA's), (Start: 69 @39176 has 13 MA's), (82, 39131),

Gene: Faze9_43 Start: 39566, Stop: 39360, Start Num: 56

Candidate Starts for Faze9_43:

(Start: 56 @39566 has 29 MA's), (Start: 71 @39539 has 3 MA's), (73, 39536), (86, 39482), (96, 39449),

Gene: FluffyNinja_45 Start: 39199, Stop: 38984, Start Num: 52

Candidate Starts for FluffyNinja_45:

(Start: 52 @39199 has 273 MA's), (Start: 69 @39169 has 13 MA's), (82, 39124), (92, 39091),

Gene: Fortunato_41 Start: 39196, Stop: 38990, Start Num: 53

Candidate Starts for Fortunato_41:

(Start: 53 @39196 has 23 MA's), (Start: 69 @39175 has 13 MA's), (78, 39148), (82, 39130), (86, 39112), (95, 39082), (97, 39076),

Gene: Fozzie_44 Start: 39215, Stop: 39000, Start Num: 52

Candidate Starts for Fozzie_44:

(Start: 52 @39215 has 273 MA's), (Start: 69 @39185 has 13 MA's), (82, 39140), (92, 39107),

Gene: Frankicide_45 Start: 39211, Stop: 38996, Start Num: 52

Candidate Starts for Frankicide_45:

(Start: 52 @39211 has 273 MA's), (Start: 69 @39181 has 13 MA's), (82, 39136), (92, 39103),

Gene: Frederick_40 Start: 39202, Stop: 38996, Start Num: 53

Candidate Starts for Frederick_40:

(Start: 53 @39202 has 23 MA's), (Start: 69 @39181 has 13 MA's), (78, 39154), (82, 39136), (86, 39118), (95, 39088), (97, 39082),

Gene: FrenchFry_44 Start: 39560, Stop: 39354, Start Num: 56

Candidate Starts for FrenchFry_44:

(Start: 56 @39560 has 29 MA's), (Start: 71 @39533 has 3 MA's), (73, 39530), (86, 39476), (96, 39443),

Gene: Fresco_38 Start: 32837, Stop: 32601, Start Num: 35

Candidate Starts for Fresco_38:

(34, 32840), (Start: 35 @32837 has 5 MA's), (47, 32816), (Start: 53 @32810 has 23 MA's), (Start: 67 @32786 has 3 MA's), (73, 32780), (96, 32690),

Gene: Freya_44 Start: 38890, Stop: 38675, Start Num: 52

Candidate Starts for Freya_44:

(Start: 52 @38890 has 273 MA's), (Start: 69 @38860 has 13 MA's), (82, 38815), (92, 38782),

Gene: FriarPreacher_44 Start: 39217, Stop: 39002, Start Num: 52

Candidate Starts for FriarPreacher_44:

(Start: 52 @39217 has 273 MA's), (Start: 69 @39187 has 13 MA's), (82, 39142),

Gene: Frickyeah_39 Start: 28597, Stop: 28403, Start Num: 68

Candidate Starts for Frickyeah_39:

(Start: 46 @28639 has 36 MA's), (Start: 68 @28597 has 4 MA's), (77, 28576), (85, 28534), (98, 28486),

Gene: Fringe_45 Start: 39182, Stop: 38967, Start Num: 52

Candidate Starts for Fringe_45:

(18, 39284), (Start: 52 @39182 has 273 MA's), (Start: 69 @39152 has 13 MA's), (82, 39107),

Gene: FugateOSU_44 Start: 38895, Stop: 38680, Start Num: 52

Candidate Starts for FugateOSU_44:

(Start: 52 @38895 has 273 MA's), (Start: 69 @38865 has 13 MA's), (82, 38820),

Gene: Funsized_46 Start: 41756, Stop: 41544, Start Num: 52

Candidate Starts for Funsized_46:

(6, 42029), (12, 41957), (36, 41783), (Start: 52 @41756 has 273 MA's), (Start: 56 @41747 has 29 MA's), (Start: 71 @41723 has 3 MA's), (78, 41702), (82, 41684), (86, 41666),

Gene: Gadjet_44 Start: 39041, Stop: 38805, Start Num: 38

Candidate Starts for Gadjet_44:

(Start: 38 @39041 has 44 MA's), (73, 38984), (89, 38918), (92, 38912),

Gene: Galaxy_26 Start: 19656, Stop: 19465, Start Num: 67

Candidate Starts for Galaxy_26:

(Start: 67 @19656 has 3 MA's),

Gene: Gareth_44 Start: 38898, Stop: 38683, Start Num: 52

Candidate Starts for Gareth_44:

(Start: 52 @38898 has 273 MA's), (Start: 69 @38868 has 13 MA's), (82, 38823), (92, 38790),

Gene: GemG_30 Start: 25663, Stop: 25463, Start Num: 54

Candidate Starts for GemG_30:

(Start: 54 @25663 has 13 MA's), (75, 25642), (78, 25627), (81, 25615), (88, 25579),

Gene: GeneCoco_45 Start: 39207, Stop: 38992, Start Num: 52

Candidate Starts for GeneCoco_45:

(Start: 52 @39207 has 273 MA's), (Start: 69 @39177 has 13 MA's), (82, 39132), (92, 39099),

Gene: Gervas_43 Start: 39008, Stop: 38772, Start Num: 38

Candidate Starts for Gervas_43:

(Start: 38 @39008 has 44 MA's), (73, 38951), (89, 38885), (92, 38879),

Gene: Getalong_40 Start: 31359, Stop: 31123, Start Num: 46

Candidate Starts for Getalong_40:

(Start: 46 @31359 has 36 MA's), (Start: 68 @31317 has 4 MA's), (77, 31296), (85, 31254), (98, 31206),

Gene: Giraffe_45 Start: 38901, Stop: 38686, Start Num: 52

Candidate Starts for Giraffe_45:

(18, 39003), (Start: 52 @38901 has 273 MA's), (Start: 69 @38871 has 13 MA's), (82, 38826),

Gene: Gizermo_30 Start: 25663, Stop: 25463, Start Num: 54

Candidate Starts for Gizermo_30:

(Start: 54 @25663 has 13 MA's), (75, 25642), (78, 25627), (81, 25615), (88, 25579),

Gene: Glass_44 Start: 39560, Stop: 39354, Start Num: 56

Candidate Starts for Glass_44:

(Start: 56 @39560 has 29 MA's), (Start: 71 @39533 has 3 MA's), (73, 39530), (86, 39476), (96, 39443),

Gene: GlenHope_44 Start: 39021, Stop: 38785, Start Num: 38

Candidate Starts for GlenHope_44:

(Start: 38 @39021 has 44 MA's), (73, 38964), (89, 38898), (92, 38892),

Gene: Godines_44 Start: 39502, Stop: 39296, Start Num: 56
Candidate Starts for Godines_44:
(Start: 56 @39502 has 29 MA's), (Start: 71 @39475 has 3 MA's), (73, 39472), (86, 39418), (96, 39385),

Gene: Gophee_45 Start: 39184, Stop: 38969, Start Num: 52
Candidate Starts for Gophee_45:
(18, 39286), (Start: 52 @39184 has 273 MA's), (Start: 69 @39154 has 13 MA's), (82, 39109),

Gene: Grand2040_44 Start: 38916, Stop: 38701, Start Num: 52
Candidate Starts for Grand2040_44:
(Start: 52 @38916 has 273 MA's), (Start: 69 @38886 has 13 MA's), (82, 38841), (92, 38808),

Gene: Gwilliam_46 Start: 39196, Stop: 38981, Start Num: 52
Candidate Starts for Gwilliam_46:
(Start: 52 @39196 has 273 MA's), (Start: 69 @39166 has 13 MA's), (82, 39121),

Gene: Gyarad_0045 Start: 39198, Stop: 38983, Start Num: 52
Candidate Starts for Gyarad_0045:
(Start: 52 @39198 has 273 MA's), (Start: 69 @39168 has 13 MA's), (82, 39123), (92, 39090),

Gene: HSavage_45 Start: 39202, Stop: 38987, Start Num: 52
Candidate Starts for HSavage_45:
(Start: 52 @39202 has 273 MA's), (Start: 69 @39172 has 13 MA's), (82, 39127), (92, 39094),

Gene: Haimas_45 Start: 39193, Stop: 38978, Start Num: 52
Candidate Starts for Haimas_45:
(Start: 52 @39193 has 273 MA's), (Start: 69 @39163 has 13 MA's), (82, 39118),

Gene: Haleema_44 Start: 38916, Stop: 38701, Start Num: 52
Candidate Starts for Haleema_44:
(Start: 52 @38916 has 273 MA's), (Start: 69 @38886 has 13 MA's), (82, 38841), (92, 38808),

Gene: Haley23_30 Start: 25663, Stop: 25463, Start Num: 54
Candidate Starts for Haley23_30:
(Start: 54 @25663 has 13 MA's), (75, 25642), (78, 25627), (81, 25615), (88, 25579),

Gene: Halfpint_42 Start: 38847, Stop: 38611, Start Num: 38
Candidate Starts for Halfpint_42:
(Start: 38 @38847 has 44 MA's), (73, 38790), (89, 38724), (92, 38718),

Gene: Hamish_45 Start: 39185, Stop: 38970, Start Num: 52
Candidate Starts for Hamish_45:
(Start: 52 @39185 has 273 MA's), (Start: 69 @39155 has 13 MA's), (82, 39110),

Gene: Hangman_40 Start: 39194, Stop: 38988, Start Num: 53
Candidate Starts for Hangman_40:
(Start: 53 @39194 has 23 MA's), (Start: 69 @39173 has 13 MA's), (78, 39146), (82, 39128), (86, 39110), (95, 39080), (97, 39074),

Gene: Hartsy_45 Start: 39236, Stop: 39021, Start Num: 52
Candidate Starts for Hartsy_45:

(Start: 52 @39236 has 273 MA's), (Start: 69 @39206 has 13 MA's), (82, 39161),

Gene: Harvey_45 Start: 39211, Stop: 38996, Start Num: 52

Candidate Starts for Harvey_45:

(18, 39313), (Start: 52 @39211 has 273 MA's), (Start: 69 @39181 has 13 MA's), (82, 39136),

Gene: HarveySr_43 Start: 39014, Stop: 38778, Start Num: 38

Candidate Starts for HarveySr_43:

(Start: 38 @39014 has 44 MA's), (73, 38957), (89, 38891), (92, 38885),

Gene: Hashim76_47 Start: 38349, Stop: 38134, Start Num: 52

Candidate Starts for Hashim76_47:

(Start: 52 @38349 has 273 MA's), (Start: 69 @38325 has 13 MA's), (84, 38271), (105, 38175),

Gene: Heath_39 Start: 38801, Stop: 38595, Start Num: 53

Candidate Starts for Heath_39:

(Start: 53 @38801 has 23 MA's), (Start: 69 @38780 has 13 MA's), (78, 38753), (82, 38735), (86, 38717), (95, 38687), (97, 38681),

Gene: Heathcliff_43 Start: 38992, Stop: 38756, Start Num: 38

Candidate Starts for Heathcliff_43:

(Start: 38 @38992 has 44 MA's), (73, 38935), (89, 38869), (92, 38863),

Gene: Hedgerow_44 Start: 39542, Stop: 39336, Start Num: 56

Candidate Starts for Hedgerow_44:

(Start: 56 @39542 has 29 MA's), (Start: 71 @39515 has 3 MA's), (73, 39512), (86, 39458), (96, 39425),

Gene: Held_45 Start: 38900, Stop: 38685, Start Num: 52

Candidate Starts for Held_45:

(18, 39002), (Start: 52 @38900 has 273 MA's), (Start: 69 @38870 has 13 MA's), (82, 38825),

Gene: HenryJackson_44 Start: 38916, Stop: 38701, Start Num: 52

Candidate Starts for HenryJackson_44:

(18, 39018), (Start: 52 @38916 has 273 MA's), (Start: 69 @38886 has 13 MA's), (82, 38841),

Gene: Herod_34 Start: 29521, Stop: 29285, Start Num: 46

Candidate Starts for Herod_34:

(Start: 46 @29521 has 36 MA's), (Start: 68 @29479 has 4 MA's), (85, 29416), (98, 29368), (99, 29356),

Gene: Hertubise_45 Start: 39207, Stop: 38992, Start Num: 52

Candidate Starts for Hertubise_45:

(Start: 52 @39207 has 273 MA's), (Start: 69 @39177 has 13 MA's), (82, 39132),

Gene: Hetaeria_45 Start: 39209, Stop: 38994, Start Num: 52

Candidate Starts for Hetaeria_45:

(Start: 52 @39209 has 273 MA's), (Start: 69 @39179 has 13 MA's), (82, 39134),

Gene: HighStump_44 Start: 38899, Stop: 38684, Start Num: 52

Candidate Starts for HighStump_44:

(18, 39001), (Start: 52 @38899 has 273 MA's), (Start: 69 @38869 has 13 MA's), (82, 38824),

Gene: Hocus_44 Start: 38905, Stop: 38690, Start Num: 52

Candidate Starts for Hocus_44:

(Start: 52 @38905 has 273 MA's), (Start: 69 @38875 has 13 MA's), (82, 38830), (92, 38797),

Gene: Holeinone_44 Start: 39422, Stop: 39216, Start Num: 56

Candidate Starts for Holeinone_44:

(Start: 56 @39422 has 29 MA's), (Start: 71 @39395 has 3 MA's), (73, 39392), (86, 39338), (96, 39305),

Gene: Holliday_38 Start: 29214, Stop: 28978, Start Num: 46

Candidate Starts for Holliday_38:

(Start: 46 @29214 has 36 MA's), (Start: 68 @29172 has 4 MA's), (77, 29151), (85, 29109), (98, 29061),

Gene: Horchata_45 Start: 39187, Stop: 38972, Start Num: 52

Candidate Starts for Horchata_45:

(18, 39289), (Start: 52 @39187 has 273 MA's), (Start: 69 @39157 has 13 MA's), (82, 39112),

Gene: Horus_39 Start: 30560, Stop: 30324, Start Num: 46

Candidate Starts for Horus_39:

(Start: 46 @30560 has 36 MA's), (Start: 68 @30518 has 4 MA's), (77, 30497), (85, 30455), (98, 30407),

Gene: Hosp_035 Start: 35180, Stop: 34983, Start Num: 52

Candidate Starts for Hosp_035:

(Start: 52 @35180 has 273 MA's), (Start: 67 @35168 has 3 MA's), (78, 35141), (82, 35123),

Gene: Hugley_32 Start: 29478, Stop: 29284, Start Num: 68

Candidate Starts for Hugley_32:

(Start: 46 @29520 has 36 MA's), (Start: 68 @29478 has 4 MA's), (85, 29415), (98, 29367), (99, 29355),

Gene: HumptyDumpty_37 Start: 30383, Stop: 30165, Start Num: 57

Candidate Starts for HumptyDumpty_37:

(14, 30533), (19, 30488), (20, 30485), (29, 30446), (42, 30413), (Start: 57 @30383 has 18 MA's), (70, 30362), (81, 30326), (84, 30311), (87, 30296), (92, 30284),

Gene: Hydro_40 Start: 39211, Stop: 39005, Start Num: 53

Candidate Starts for Hydro_40:

(Start: 53 @39211 has 23 MA's), (Start: 69 @39190 has 13 MA's), (78, 39163), (82, 39145), (86, 39127), (95, 39097), (97, 39091),

Gene: ImtiyazSitla_44 Start: 38747, Stop: 38532, Start Num: 52

Candidate Starts for ImtiyazSitla_44:

(Start: 52 @38747 has 273 MA's), (Start: 69 @38717 has 13 MA's), (82, 38672), (92, 38639),

Gene: Imvubu_36 Start: 35895, Stop: 35680, Start Num: 52

Candidate Starts for Imvubu_36:

(7, 36156), (12, 36096), (Start: 52 @35895 has 273 MA's), (Start: 56 @35886 has 29 MA's), (Start: 71 @35859 has 3 MA's), (78, 35838), (82, 35820), (95, 35772), (97, 35766),

Gene: Inchworm_45 Start: 39185, Stop: 38970, Start Num: 52

Candidate Starts for Inchworm_45:

(18, 39287), (Start: 52 @39185 has 273 MA's), (Start: 69 @39155 has 13 MA's), (82, 39110),

Gene: Indlovu_42 Start: 38503, Stop: 38300, Start Num: 52

Candidate Starts for Indlovu_42:

(18, 38602), (Start: 52 @38503 has 273 MA's), (Start: 69 @38485 has 13 MA's), (78, 38458), (82, 38440), (95, 38392),

Gene: Inverness_45 Start: 39199, Stop: 38984, Start Num: 52

Candidate Starts for Inverness_45:

(Start: 52 @39199 has 273 MA's), (Start: 69 @39169 has 13 MA's), (82, 39124), (92, 39091),

Gene: Iridoclysis_45 Start: 39179, Stop: 38964, Start Num: 52

Candidate Starts for Iridoclysis_45:

(Start: 52 @39179 has 273 MA's), (Start: 69 @39149 has 13 MA's), (82, 39104),

Gene: IsaacEli_45 Start: 39203, Stop: 38988, Start Num: 52

Candidate Starts for IsaacEli_45:

(18, 39305), (Start: 52 @39203 has 273 MA's), (Start: 69 @39173 has 13 MA's), (82, 39128),

Gene: ItsyBitsy1_44 Start: 39424, Stop: 39218, Start Num: 56

Candidate Starts for ItsyBitsy1_44:

(Start: 56 @39424 has 29 MA's), (Start: 71 @39397 has 3 MA's), (73, 39394), (86, 39340), (96, 39307),

Gene: JAMaL_40 Start: 39382, Stop: 39176, Start Num: 53

Candidate Starts for JAMaL_40:

(Start: 53 @39382 has 23 MA's), (Start: 69 @39361 has 13 MA's), (78, 39334), (82, 39316), (86, 39298), (95, 39268), (97, 39262),

Gene: JDog_44 Start: 38916, Stop: 38701, Start Num: 52

Candidate Starts for JDog_44:

(Start: 52 @38916 has 273 MA's), (Start: 69 @38886 has 13 MA's), (82, 38841),

Gene: JaNo_37 Start: 30383, Stop: 30165, Start Num: 57

Candidate Starts for JaNo_37:

(14, 30533), (19, 30488), (20, 30485), (29, 30446), (42, 30413), (Start: 57 @30383 has 18 MA's), (70, 30362), (81, 30326), (84, 30311), (87, 30296), (92, 30284),

Gene: JacAttac_45 Start: 39185, Stop: 38970, Start Num: 52

Candidate Starts for JacAttac_45:

(Start: 52 @39185 has 273 MA's), (Start: 69 @39155 has 13 MA's), (82, 39110), (92, 39077),

Gene: Jackstina_40 Start: 38951, Stop: 38715, Start Num: 38

Candidate Starts for Jackstina_40:

(Start: 38 @38951 has 44 MA's), (73, 38894), (89, 38828), (92, 38822),

Gene: JaguarMi_40 Start: 38677, Stop: 38471, Start Num: 53

Candidate Starts for JaguarMi_40:

(Start: 53 @38677 has 23 MA's), (Start: 69 @38656 has 13 MA's), (78, 38629), (82, 38611), (86, 38593), (95, 38563), (97, 38557),

Gene: JakeO_44 Start: 38918, Stop: 38703, Start Num: 52

Candidate Starts for JakeO_44:

(Start: 52 @38918 has 273 MA's), (Start: 69 @38888 has 13 MA's), (82, 38843),

Gene: Jamun_25 Start: 19385, Stop: 19188, Start Num: 61

Candidate Starts for Jamun_25:

(1, 20447), (2, 20237), (3, 19964), (4, 19799), (Start: 61 @19385 has 3 MA's),

Gene: JangoPhett_45 Start: 39187, Stop: 38972, Start Num: 52

Candidate Starts for JangoPhett_45:

(Start: 52 @39187 has 273 MA's), (Start: 69 @39157 has 13 MA's), (82, 39112),

Gene: JayCookie_37 Start: 30387, Stop: 30169, Start Num: 57

Candidate Starts for JayCookie_37:

(14, 30537), (19, 30492), (20, 30489), (29, 30450), (42, 30417), (Start: 57 @30387 has 18 MA's), (70, 30366), (81, 30330), (84, 30315), (87, 30300), (92, 30288),

Gene: Jillium_44 Start: 38909, Stop: 38694, Start Num: 52

Candidate Starts for Jillium_44:

(Start: 52 @38909 has 273 MA's), (Start: 69 @38879 has 13 MA's), (82, 38834),

Gene: Jiminy_44 Start: 38753, Stop: 38538, Start Num: 52

Candidate Starts for Jiminy_44:

(18, 38855), (Start: 52 @38753 has 273 MA's), (Start: 69 @38723 has 13 MA's), (82, 38678),

Gene: Jiraiya_46 Start: 38906, Stop: 38691, Start Num: 52

Candidate Starts for Jiraiya_46:

(18, 39008), (Start: 52 @38906 has 273 MA's), (Start: 69 @38876 has 13 MA's), (82, 38831),

Gene: Jolie1_037 Start: 36967, Stop: 36770, Start Num: 52

Candidate Starts for Jolie1_037:

(Start: 52 @36967 has 273 MA's), (Start: 67 @36955 has 3 MA's), (73, 36949), (78, 36928), (82, 36910),

Gene: KBurrousTX_37 Start: 31486, Stop: 31268, Start Num: 57

Candidate Starts for KBurrousTX_37:

(42, 31513), (Start: 57 @31486 has 18 MA's), (72, 31462), (81, 31429), (84, 31414), (87, 31399), (92, 31387), (93, 31381),

Gene: KLucky39_45 Start: 39197, Stop: 38982, Start Num: 52

Candidate Starts for KLucky39_45:

(Start: 52 @39197 has 273 MA's), (Start: 69 @39167 has 13 MA's), (82, 39122), (92, 39089),

Gene: Kabreeze_37 Start: 30383, Stop: 30165, Start Num: 57

Candidate Starts for Kabreeze_37:

(14, 30533), (19, 30488), (20, 30485), (29, 30446), (42, 30413), (Start: 57 @30383 has 18 MA's), (70, 30362), (81, 30326), (84, 30311), (87, 30296), (92, 30284),

Gene: Kahve_44 Start: 38913, Stop: 38698, Start Num: 52

Candidate Starts for Kahve_44:

(Start: 52 @38913 has 273 MA's), (Start: 69 @38883 has 13 MA's), (82, 38838),

Gene: Kailash_45 Start: 39251, Stop: 39036, Start Num: 52

Candidate Starts for Kailash_45:

(Start: 52 @39251 has 273 MA's), (Start: 69 @39221 has 13 MA's), (82, 39176),

Gene: Kaleb_44 Start: 39557, Stop: 39351, Start Num: 56
Candidate Starts for Kaleb_44:
(Start: 56 @39557 has 29 MA's), (Start: 71 @39530 has 3 MA's), (73, 39527), (86, 39473), (96, 39440),

Gene: Kamiyu_43 Start: 39000, Stop: 38764, Start Num: 38
Candidate Starts for Kamiyu_43:
(Start: 38 @39000 has 44 MA's), (73, 38943), (89, 38877), (92, 38871),

Gene: Katniss_45 Start: 39212, Stop: 38997, Start Num: 52
Candidate Starts for Katniss_45:
(18, 39314), (Start: 52 @39212 has 273 MA's), (Start: 69 @39182 has 13 MA's), (82, 39137),

Gene: KayaCho_37 Start: 36966, Stop: 36766, Start Num: 52
Candidate Starts for KayaCho_37:
(Start: 52 @36966 has 273 MA's), (Start: 69 @36951 has 13 MA's), (78, 36924), (82, 36906),

Gene: Keitherie_45 Start: 39250, Stop: 39035, Start Num: 52
Candidate Starts for Keitherie_45:
(18, 39352), (Start: 52 @39250 has 273 MA's), (Start: 69 @39220 has 13 MA's), (82, 39175),

Gene: Kenna_38 Start: 29550, Stop: 29314, Start Num: 46
Candidate Starts for Kenna_38:
(Start: 46 @29550 has 36 MA's), (Start: 68 @29508 has 4 MA's), (77, 29487), (85, 29445), (98, 29397),

Gene: Kenuha5_22 Start: 24468, Stop: 24289, Start Num: 63
Candidate Starts for Kenuha5_22:
(Start: 51 @24492 has 1 MA's), (Start: 63 @24468 has 10 MA's), (Start: 69 @24462 has 13 MA's), (78, 24435), (84, 24402), (103, 24306),

Gene: Kersh_23 Start: 24511, Stop: 24332, Start Num: 63
Candidate Starts for Kersh_23:
(Start: 51 @24535 has 1 MA's), (Start: 63 @24511 has 10 MA's), (Start: 69 @24505 has 13 MA's), (78, 24478), (84, 24445), (103, 24349),

Gene: Kheth_44 Start: 39445, Stop: 39239, Start Num: 56
Candidate Starts for Kheth_44:
(Start: 56 @39445 has 29 MA's), (Start: 71 @39418 has 3 MA's), (73, 39415), (86, 39361), (96, 39328),

Gene: Kikipoo_45 Start: 39203, Stop: 38988, Start Num: 52
Candidate Starts for Kikipoo_45:
(18, 39305), (Start: 52 @39203 has 273 MA's), (Start: 69 @39173 has 13 MA's), (82, 39128),

Gene: Kimbrough_45 Start: 38905, Stop: 38690, Start Num: 52
Candidate Starts for Kimbrough_45:
(18, 39007), (Start: 52 @38905 has 273 MA's), (Start: 69 @38875 has 13 MA's), (82, 38830),

Gene: KingTut_36 Start: 34574, Stop: 34359, Start Num: 52
Candidate Starts for KingTut_36:
(Start: 52 @34574 has 273 MA's), (Start: 69 @34544 has 13 MA's), (82, 34499), (92, 34466),

Gene: KingVeVeVe_45 Start: 39178, Stop: 38963, Start Num: 52
Candidate Starts for KingVeVeVe_45:
(Start: 52 @39178 has 273 MA's), (Start: 69 @39148 has 13 MA's), (82, 39103),

Gene: Kita_36 Start: 29363, Stop: 29127, Start Num: 46
Candidate Starts for Kita_36:
(Start: 46 @29363 has 36 MA's), (Start: 68 @29321 has 4 MA's), (77, 29300), (85, 29258), (98, 29210), (107, 29138),

Gene: KlimbOn_45 Start: 39191, Stop: 38976, Start Num: 52
Candidate Starts for KlimbOn_45:
(Start: 52 @39191 has 273 MA's), (Start: 69 @39161 has 13 MA's), (82, 39116), (92, 39083),

Gene: Kloppinator_45 Start: 39214, Stop: 38999, Start Num: 52
Candidate Starts for Kloppinator_45:
(18, 39316), (Start: 52 @39214 has 273 MA's), (Start: 69 @39184 has 13 MA's), (82, 39139), (92, 39106),

Gene: Knocker_45 Start: 40870, Stop: 40658, Start Num: 52
Candidate Starts for Knocker_45:
(18, 40978), (Start: 52 @40870 has 273 MA's), (Start: 56 @40861 has 29 MA's), (Start: 71 @40837 has 3 MA's), (74, 40831), (78, 40816), (82, 40798),

Gene: Kronus_42 Start: 39610, Stop: 39374, Start Num: 38
Candidate Starts for Kronus_42:
(Start: 38 @39610 has 44 MA's), (73, 39553), (89, 39487), (92, 39481),

Gene: Kuleana_27 Start: 19065, Stop: 18880, Start Num: 66
Candidate Starts for Kuleana_27:
(59, 19077), (Start: 66 @19065 has 3 MA's),

Gene: Kwadwo_44 Start: 38895, Stop: 38680, Start Num: 52
Candidate Starts for Kwadwo_44:
(Start: 52 @38895 has 273 MA's), (Start: 69 @38865 has 13 MA's), (82, 38820), (92, 38787),

Gene: Kwksand96_44 Start: 38764, Stop: 38549, Start Num: 52
Candidate Starts for Kwksand96_44:
(Start: 52 @38764 has 273 MA's), (Start: 69 @38734 has 13 MA's), (82, 38689), (92, 38656),

Gene: Labeouficaum_44 Start: 38759, Stop: 38544, Start Num: 52
Candidate Starts for Labeouficaum_44:
(Start: 52 @38759 has 273 MA's), (Start: 69 @38729 has 13 MA's), (82, 38684), (92, 38651),

Gene: Lars_44 Start: 39547, Stop: 39341, Start Num: 56
Candidate Starts for Lars_44:
(Start: 56 @39547 has 29 MA's), (Start: 71 @39520 has 3 MA's), (73, 39517), (86, 39463), (96, 39430),

Gene: LasagnaCat_45 Start: 39197, Stop: 38982, Start Num: 52
Candidate Starts for LasagnaCat_45:
(18, 39299), (Start: 52 @39197 has 273 MA's), (Start: 69 @39167 has 13 MA's), (82, 39122),

Gene: Lasso_45 Start: 39170, Stop: 38955, Start Num: 52

Candidate Starts for Lasso_45:

(Start: 52 @39170 has 273 MA's), (Start: 69 @39140 has 13 MA's), (82, 39095),

Gene: Laurie_43 Start: 38946, Stop: 38740, Start Num: 56

Candidate Starts for Laurie_43:

(Start: 56 @38946 has 29 MA's), (Start: 71 @38919 has 3 MA's), (73, 38916), (86, 38862), (96, 38829),

Gene: LeeLot_45 Start: 39201, Stop: 38986, Start Num: 52

Candidate Starts for LeeLot_45:

(18, 39303), (Start: 52 @39201 has 273 MA's), (Start: 69 @39171 has 13 MA's), (82, 39126),

Gene: Lego3393_44 Start: 39206, Stop: 38991, Start Num: 52

Candidate Starts for Lego3393_44:

(18, 39308), (Start: 52 @39206 has 273 MA's), (Start: 69 @39176 has 13 MA's), (82, 39131),

Gene: Legolas_44 Start: 38911, Stop: 38696, Start Num: 52

Candidate Starts for Legolas_44:

(Start: 52 @38911 has 273 MA's), (Start: 69 @38881 has 13 MA's), (82, 38836), (92, 38803),

Gene: LeiMonet_46 Start: 38902, Stop: 38687, Start Num: 52

Candidate Starts for LeiMonet_46:

(18, 39004), (Start: 52 @38902 has 273 MA's), (Start: 69 @38872 has 13 MA's), (82, 38827),

Gene: LemonSlice_45 Start: 38898, Stop: 38683, Start Num: 52

Candidate Starts for LemonSlice_45:

(18, 39000), (Start: 52 @38898 has 273 MA's), (Start: 69 @38868 has 13 MA's), (82, 38823),

Gene: Leona_25 Start: 18655, Stop: 18440, Start Num: 66

Candidate Starts for Leona_25:

(17, 18790), (28, 18736), (58, 18667), (Start: 66 @18655 has 3 MA's),

Gene: Lephleur_44 Start: 39440, Stop: 39234, Start Num: 56

Candidate Starts for Lephleur_44:

(Start: 56 @39440 has 29 MA's), (Start: 71 @39413 has 3 MA's), (73, 39410), (86, 39356), (96, 39323),

Gene: Leroy_39 Start: 30561, Stop: 30325, Start Num: 46

Candidate Starts for Leroy_39:

(Start: 46 @30561 has 36 MA's), (Start: 68 @30519 has 4 MA's), (77, 30498), (85, 30456), (98, 30408),

Gene: LestyG_43 Start: 39031, Stop: 38795, Start Num: 38

Candidate Starts for LestyG_43:

(Start: 38 @39031 has 44 MA's), (73, 38974), (89, 38908), (92, 38902),

Gene: Ligma_38 Start: 32837, Stop: 32601, Start Num: 35

Candidate Starts for Ligma_38:

(34, 32840), (Start: 35 @32837 has 5 MA's), (47, 32816), (Start: 53 @32810 has 23 MA's), (Start: 67 @32786 has 3 MA's), (73, 32780), (96, 32690),

Gene: LilMcDreamy_41 Start: 38754, Stop: 38542, Start Num: 52

Candidate Starts for LilMcDreamy_41:

(18, 38862), (Start: 52 @38754 has 273 MA's), (Start: 69 @38736 has 13 MA's), (82, 38691), (97, 38637),

Gene: Linus_37 Start: 30384, Stop: 30166, Start Num: 57

Candidate Starts for Linus_37:

(14, 30534), (19, 30489), (20, 30486), (29, 30447), (42, 30414), (Start: 57 @30384 has 18 MA's), (70, 30363), (81, 30327), (84, 30312), (87, 30297), (92, 30285),

Gene: LittleMunchkin_40 Start: 36172, Stop: 35945, Start Num: 39

Candidate Starts for LittleMunchkin_40:

(Start: 39 @36172 has 5 MA's), (91, 36055), (97, 36031),

Gene: LizLemon_44 Start: 39556, Stop: 39350, Start Num: 56

Candidate Starts for LizLemon_44:

(Start: 56 @39556 has 29 MA's), (Start: 71 @39529 has 3 MA's), (73, 39526), (86, 39472), (96, 39439),

Gene: Lolalove_40 Start: 39208, Stop: 39002, Start Num: 53

Candidate Starts for Lolalove_40:

(Start: 53 @39208 has 23 MA's), (Start: 69 @39187 has 13 MA's), (78, 39160), (82, 39142), (86, 39124), (95, 39094), (97, 39088),

Gene: LonelyBoi_35 Start: 30866, Stop: 30690, Start Num: 60

Candidate Starts for LonelyBoi_35:

(Start: 60 @30866 has 1 MA's), (75, 30851), (81, 30824),

Gene: Longacauda_44 Start: 38903, Stop: 38688, Start Num: 52

Candidate Starts for Longacauda_44:

(Start: 52 @38903 has 273 MA's), (Start: 69 @38873 has 13 MA's), (82, 38828), (92, 38795),

Gene: Lopsy_44 Start: 38753, Stop: 38538, Start Num: 52

Candidate Starts for Lopsy_44:

(18, 38855), (Start: 52 @38753 has 273 MA's), (Start: 69 @38723 has 13 MA's), (82, 38678),

Gene: LostAndPhound_44 Start: 38904, Stop: 38689, Start Num: 52

Candidate Starts for LostAndPhound_44:

(18, 39006), (Start: 52 @38904 has 273 MA's), (Start: 69 @38874 has 13 MA's), (82, 38829),

Gene: LuckyMarjie_44 Start: 38913, Stop: 38698, Start Num: 52

Candidate Starts for LuckyMarjie_44:

(Start: 52 @38913 has 273 MA's), (Start: 69 @38883 has 13 MA's), (82, 38838), (92, 38805),

Gene: Lulumae_44 Start: 38895, Stop: 38680, Start Num: 52

Candidate Starts for Lulumae_44:

(Start: 52 @38895 has 273 MA's), (Start: 69 @38865 has 13 MA's), (82, 38820), (92, 38787),

Gene: Lulwa_45 Start: 39182, Stop: 38967, Start Num: 52

Candidate Starts for Lulwa_45:

(18, 39284), (Start: 52 @39182 has 273 MA's), (Start: 69 @39152 has 13 MA's), (82, 39107),

Gene: Lumine_44 Start: 38891, Stop: 38676, Start Num: 52

Candidate Starts for Lumine_44:

(18, 38993), (Start: 52 @38891 has 273 MA's), (Start: 69 @38861 has 13 MA's), (82, 38816),

Gene: Lunar_27 Start: 19041, Stop: 18820, Start Num: 69

Candidate Starts for Lunar_27:

(Start: 69 @19041 has 13 MA's),

Gene: Lutum_39 Start: 29550, Stop: 29314, Start Num: 46

Candidate Starts for Lutum_39:

(Start: 46 @29550 has 36 MA's), (Start: 68 @29508 has 4 MA's), (77, 29487), (85, 29445), (98, 29397),

Gene: Lymara_37 Start: 30202, Stop: 29981, Start Num: 57

Candidate Starts for Lymara_37:

(14, 30352), (19, 30307), (29, 30265), (42, 30232), (Start: 57 @30202 has 18 MA's), (78, 30154), (84, 30130), (87, 30115), (92, 30103),

Gene: MRabcd_44 Start: 38895, Stop: 38680, Start Num: 52

Candidate Starts for MRabcd_44:

(Start: 52 @38895 has 273 MA's), (Start: 69 @38865 has 13 MA's), (82, 38820), (92, 38787),

Gene: Madiba_23 Start: 24209, Stop: 24036, Start Num: 69

Candidate Starts for Madiba_23:

(Start: 51 @24239 has 1 MA's), (Start: 63 @24215 has 10 MA's), (Start: 69 @24209 has 13 MA's), (78, 24182), (84, 24149), (103, 24053),

Gene: Mag7_44 Start: 38801, Stop: 38586, Start Num: 52

Candidate Starts for Mag7_44:

(Start: 52 @38801 has 273 MA's), (Start: 69 @38771 has 13 MA's), (82, 38726),

Gene: Magic8_45 Start: 39236, Stop: 39021, Start Num: 52

Candidate Starts for Magic8_45:

(Start: 52 @39236 has 273 MA's), (Start: 69 @39206 has 13 MA's), (82, 39161),

Gene: Magpie_39 Start: 39044, Stop: 38838, Start Num: 53

Candidate Starts for Magpie_39:

(Start: 53 @39044 has 23 MA's), (Start: 69 @39023 has 13 MA's), (78, 38996), (82, 38978), (86, 38960), (95, 38930), (97, 38924),

Gene: MakoManhole_40 Start: 34842, Stop: 34588, Start Num: 41

Candidate Starts for MakoManhole_40:

(26, 34884), (Start: 41 @34842 has 7 MA's), (Start: 71 @34794 has 3 MA's), (84, 34743), (89, 34725), (97, 34698),

Gene: Mana_44 Start: 38910, Stop: 38695, Start Num: 52

Candidate Starts for Mana_44:

(Start: 52 @38910 has 273 MA's), (Start: 69 @38880 has 13 MA's), (82, 38835), (92, 38802),

Gene: Manad_44 Start: 38752, Stop: 38537, Start Num: 52

Candidate Starts for Manad_44:

(18, 38854), (Start: 52 @38752 has 273 MA's), (Start: 69 @38722 has 13 MA's), (82, 38677),

Gene: Manasvini_35 Start: 29355, Stop: 29119, Start Num: 46

Candidate Starts for Manasvini_35:

(Start: 46 @29355 has 36 MA's), (Start: 68 @29313 has 4 MA's), (77, 29292), (85, 29250), (98, 29202), (107, 29130),

Gene: Maridalia_34 Start: 29354, Stop: 29118, Start Num: 46

Candidate Starts for Maridalia_34:

(Start: 46 @29354 has 36 MA's), (Start: 68 @29312 has 4 MA's), (77, 29291), (85, 29249), (98, 29201), (107, 29129),

Gene: Mariokart_38 Start: 32762, Stop: 32526, Start Num: 35

Candidate Starts for Mariokart_38:

(30, 32777), (34, 32765), (Start: 35 @32762 has 5 MA's), (Start: 67 @32711 has 3 MA's), (73, 32705), (96, 32615),

Gene: Marley1013_43 Start: 39809, Stop: 39573, Start Num: 38

Candidate Starts for Marley1013_43:

(Start: 38 @39809 has 44 MA's), (73, 39752), (89, 39686), (92, 39680),

Gene: Maru_44 Start: 38853, Stop: 38638, Start Num: 52

Candidate Starts for Maru_44:

(Start: 52 @38853 has 273 MA's), (Start: 69 @38823 has 13 MA's), (82, 38778), (92, 38745),

Gene: Maskar_44 Start: 38747, Stop: 38532, Start Num: 52

Candidate Starts for Maskar_44:

(Start: 52 @38747 has 273 MA's), (Start: 69 @38717 has 13 MA's), (82, 38672), (92, 38639),

Gene: MasterPo_44 Start: 39443, Stop: 39237, Start Num: 56

Candidate Starts for MasterPo_44:

(Start: 56 @39443 has 29 MA's), (Start: 71 @39416 has 3 MA's), (73, 39413), (86, 39359), (96, 39326),

Gene: Matalotodo_45 Start: 39196, Stop: 38981, Start Num: 52

Candidate Starts for Matalotodo_45:

(Start: 52 @39196 has 273 MA's), (Start: 69 @39166 has 13 MA's), (82, 39121),

Gene: Mcshane_44 Start: 38893, Stop: 38678, Start Num: 52

Candidate Starts for Mcshane_44:

(Start: 52 @38893 has 273 MA's), (Start: 69 @38863 has 13 MA's), (82, 38818), (92, 38785),

Gene: Mecca_44 Start: 38896, Stop: 38681, Start Num: 52

Candidate Starts for Mecca_44:

(18, 38998), (Start: 52 @38896 has 273 MA's), (Start: 69 @38866 has 13 MA's), (82, 38821),

Gene: Megamind20_45 Start: 38918, Stop: 38703, Start Num: 52

Candidate Starts for Megamind20_45:

(18, 39020), (Start: 52 @38918 has 273 MA's), (Start: 69 @38888 has 13 MA's), (82, 38843),

Gene: Megatron_45 Start: 39194, Stop: 38979, Start Num: 52

Candidate Starts for Megatron_45:

(18, 39296), (Start: 52 @39194 has 273 MA's), (Start: 69 @39164 has 13 MA's), (82, 39119),

Gene: Melc17_45 Start: 39191, Stop: 38976, Start Num: 52

Candidate Starts for Melc17_45:

(Start: 52 @39191 has 273 MA's), (Start: 69 @39161 has 13 MA's), (82, 39116),

Gene: Melons_27 Start: 19041, Stop: 18820, Start Num: 69

Candidate Starts for Melons_27:

(Start: 69 @19041 has 13 MA's),

Gene: MelsMeow_44 Start: 38797, Stop: 38582, Start Num: 52

Candidate Starts for MelsMeow_44:

(Start: 52 @38797 has 273 MA's), (Start: 69 @38767 has 13 MA's), (82, 38722), (92, 38689),

Gene: Mesh1_45 Start: 39208, Stop: 38993, Start Num: 52

Candidate Starts for Mesh1_45:

(Start: 52 @39208 has 273 MA's), (Start: 69 @39178 has 13 MA's), (82, 39133),

Gene: MichaelPhcott_44 Start: 38798, Stop: 38583, Start Num: 52

Candidate Starts for MichaelPhcott_44:

(Start: 52 @38798 has 273 MA's), (Start: 69 @38768 has 13 MA's), (82, 38723),

Gene: Mikota_45 Start: 39181, Stop: 38966, Start Num: 52

Candidate Starts for Mikota_45:

(Start: 52 @39181 has 273 MA's), (Start: 69 @39151 has 13 MA's), (82, 39106), (92, 39073),

Gene: MiniBoss_45 Start: 39187, Stop: 38972, Start Num: 52

Candidate Starts for MiniBoss_45:

(Start: 52 @39187 has 273 MA's), (Start: 69 @39157 has 13 MA's), (82, 39112), (92, 39079),

Gene: MitKao_45 Start: 38902, Stop: 38687, Start Num: 52

Candidate Starts for MitKao_45:

(18, 39004), (Start: 52 @38902 has 273 MA's), (Start: 69 @38872 has 13 MA's), (82, 38827),

Gene: Mithril_40 Start: 39212, Stop: 39006, Start Num: 53

Candidate Starts for Mithril_40:

(Start: 53 @39212 has 23 MA's), (Start: 69 @39191 has 13 MA's), (78, 39164), (82, 39146), (86, 39128), (95, 39098), (97, 39092),

Gene: MmasiCarm_43 Start: 39013, Stop: 38777, Start Num: 38

Candidate Starts for MmasiCarm_43:

(Start: 38 @39013 has 44 MA's), (73, 38956), (89, 38890), (92, 38884),

Gene: Mocha12_30 Start: 25663, Stop: 25463, Start Num: 54

Candidate Starts for Mocha12_30:

(Start: 54 @25663 has 13 MA's), (75, 25642), (78, 25627), (81, 25615), (88, 25579),

Gene: Mordred_37 Start: 30383, Stop: 30165, Start Num: 57

Candidate Starts for Mordred_37:

(14, 30533), (19, 30488), (20, 30485), (29, 30446), (42, 30413), (Start: 57 @30383 has 18 MA's), (70, 30362), (81, 30326), (84, 30311), (87, 30296), (92, 30284),

Gene: Morgushi_45 Start: 38903, Stop: 38688, Start Num: 52

Candidate Starts for Morgushi_45:

(Start: 52 @38903 has 273 MA's), (Start: 69 @38873 has 13 MA's), (82, 38828), (92, 38795),

Gene: Mortcellus_42 Start: 39665, Stop: 39429, Start Num: 38

Candidate Starts for Mortcellus_42:

(Start: 38 @39665 has 44 MA's), (73, 39608), (89, 39542), (92, 39536),

Gene: Morty_45 Start: 39203, Stop: 38988, Start Num: 52

Candidate Starts for Morty_45:

(18, 39305), (Start: 52 @39203 has 273 MA's), (Start: 69 @39173 has 13 MA's), (82, 39128),

Gene: Morty007_43 Start: 39809, Stop: 39573, Start Num: 38

Candidate Starts for Morty007_43:

(Start: 38 @39809 has 44 MA's), (73, 39752), (89, 39686), (92, 39680),

Gene: Mosaic_44 Start: 38908, Stop: 38693, Start Num: 52

Candidate Starts for Mosaic_44:

(18, 39010), (Start: 52 @38908 has 273 MA's), (Start: 69 @38878 has 13 MA's), (82, 38833),

Gene: MossRose_40 Start: 34821, Stop: 34567, Start Num: 41

Candidate Starts for MossRose_40:

(26, 34863), (Start: 41 @34821 has 7 MA's), (Start: 71 @34773 has 3 MA's), (84, 34722), (89, 34704), (97, 34677),

Gene: MoyaNatalis_37 Start: 30387, Stop: 30169, Start Num: 57

Candidate Starts for MoyaNatalis_37:

(14, 30537), (19, 30492), (20, 30489), (29, 30450), (42, 30417), (Start: 57 @30387 has 18 MA's), (70, 30366), (81, 30330), (84, 30315), (87, 30300), (92, 30288),

Gene: MrPhizzler_44 Start: 38911, Stop: 38696, Start Num: 52

Candidate Starts for MrPhizzler_44:

(Start: 52 @38911 has 273 MA's), (Start: 69 @38881 has 13 MA's), (82, 38836), (92, 38803),

Gene: Mudslide_40 Start: 39444, Stop: 39238, Start Num: 53

Candidate Starts for Mudslide_40:

(Start: 53 @39444 has 23 MA's), (Start: 69 @39423 has 13 MA's), (78, 39396), (82, 39378), (86, 39360), (95, 39330), (97, 39324),

Gene: Mulan_44 Start: 38920, Stop: 38705, Start Num: 52

Candidate Starts for Mulan_44:

(Start: 52 @38920 has 273 MA's), (Start: 69 @38890 has 13 MA's), (82, 38845),

Gene: Murdoc_45 Start: 39195, Stop: 38980, Start Num: 52

Candidate Starts for Murdoc_45:

(Start: 52 @39195 has 273 MA's), (Start: 69 @39165 has 13 MA's), (82, 39120), (92, 39087),

Gene: Mutante_44 Start: 38902, Stop: 38687, Start Num: 52

Candidate Starts for Mutante_44:

(18, 39004), (Start: 52 @38902 has 273 MA's), (Start: 69 @38872 has 13 MA's), (82, 38827),

Gene: Mysterious_45 Start: 39920, Stop: 39711, Start Num: 52

Candidate Starts for Mysterious_45:

(18, 40028), (Start: 52 @39920 has 273 MA's), (Start: 69 @39905 has 13 MA's), (82, 39860),

Gene: NHagos_38 Start: 33445, Stop: 33185, Start Num: 41

Candidate Starts for NHagos_38:

(27, 33478), (Start: 41 @33445 has 7 MA's), (Start: 69 @33403 has 13 MA's), (Start: 71 @33400 has 3 MA's), (84, 33349), (89, 33331), (97, 33304),

Gene: Nacho_0045 Start: 39197, Stop: 38982, Start Num: 52

Candidate Starts for Nacho_0045:

(18, 39299), (Start: 52 @39197 has 273 MA's), (Start: 69 @39167 has 13 MA's), (82, 39122),

Gene: Nanao_39 Start: 38170, Stop: 37964, Start Num: 53

Candidate Starts for Nanao_39:

(Start: 53 @38170 has 23 MA's), (Start: 69 @38149 has 13 MA's), (78, 38122), (82, 38104), (86, 38086), (95, 38056), (97, 38050), (99, 38029),

Gene: Nangang_43 Start: 39713, Stop: 39504, Start Num: 52

Candidate Starts for Nangang_43:

(18, 39821), (Start: 52 @39713 has 273 MA's), (Start: 69 @39698 has 13 MA's), (75, 39686),

Gene: Neobush_35 Start: 29354, Stop: 29118, Start Num: 46

Candidate Starts for Neobush_35:

(Start: 46 @29354 has 36 MA's), (Start: 68 @29312 has 4 MA's), (77, 29291), (85, 29249), (98, 29201), (107, 29129),

Gene: Neos5_43 Start: 39824, Stop: 39588, Start Num: 38

Candidate Starts for Neos5_43:

(Start: 38 @39824 has 44 MA's), (73, 39767), (89, 39701), (92, 39695),

Gene: Newman_45 Start: 39194, Stop: 38979, Start Num: 52

Candidate Starts for Newman_45:

(Start: 52 @39194 has 273 MA's), (Start: 69 @39164 has 13 MA's), (82, 39119), (92, 39086),

Gene: Nicole21_45 Start: 39192, Stop: 38977, Start Num: 52

Candidate Starts for Nicole21_45:

(Start: 52 @39192 has 273 MA's), (Start: 69 @39162 has 13 MA's), (82, 39117),

Gene: Nigel_39 Start: 38086, Stop: 37880, Start Num: 53

Candidate Starts for Nigel_39:

(Start: 53 @38086 has 23 MA's), (Start: 69 @38065 has 13 MA's), (78, 38038), (82, 38020), (86, 38002), (95, 37972), (97, 37966),

Gene: Nozo_43 Start: 39789, Stop: 39553, Start Num: 38

Candidate Starts for Nozo_43:

(Start: 38 @39789 has 44 MA's), (73, 39732), (89, 39666), (92, 39660),

Gene: Numberten_45 Start: 39201, Stop: 38986, Start Num: 52

Candidate Starts for Numberten_45:

(18, 39303), (Start: 52 @39201 has 273 MA's), (Start: 69 @39171 has 13 MA's), (82, 39126),

Gene: Nyala_44 Start: 38894, Stop: 38679, Start Num: 52

Candidate Starts for Nyala_44:

(18, 38996), (Start: 52 @38894 has 273 MA's), (Start: 69 @38864 has 13 MA's), (82, 38819),

Gene: Nymphadora_34 Start: 29521, Stop: 29285, Start Num: 46

Candidate Starts for Nymphadora_34:

(Start: 46 @29521 has 36 MA's), (Start: 68 @29479 has 4 MA's), (85, 29416), (98, 29368), (99, 29356),

Gene: ODay_42 Start: 31024, Stop: 30788, Start Num: 46
Candidate Starts for ODay_42:
(Start: 46 @31024 has 36 MA's), (Start: 68 @30982 has 4 MA's), (77, 30961), (85, 30919), (98, 30871),

Gene: OSmaximus_45 Start: 39236, Stop: 39021, Start Num: 52
Candidate Starts for OSmaximus_45:
(Start: 52 @39236 has 273 MA's), (Start: 69 @39206 has 13 MA's), (82, 39161), (92, 39128),

Gene: Obutu_43 Start: 39013, Stop: 38777, Start Num: 38
Candidate Starts for Obutu_43:
(Start: 38 @39013 has 44 MA's), (73, 38956), (89, 38890), (92, 38884),

Gene: Ogopogo_25 Start: 24675, Stop: 24496, Start Num: 63
Candidate Starts for Ogopogo_25:
(Start: 51 @24699 has 1 MA's), (Start: 63 @24675 has 10 MA's), (Start: 69 @24669 has 13 MA's), (78, 24642), (84, 24609), (103, 24513),

Gene: Olak_45 Start: 38897, Stop: 38682, Start Num: 52
Candidate Starts for Olak_45:
(18, 38999), (Start: 52 @38897 has 273 MA's), (Start: 69 @38867 has 13 MA's), (82, 38822),

Gene: Oline_44 Start: 38763, Stop: 38548, Start Num: 52
Candidate Starts for Oline_44:
(18, 38865), (Start: 52 @38763 has 273 MA's), (Start: 69 @38733 has 13 MA's), (82, 38688),

Gene: Olive_45 Start: 39184, Stop: 38969, Start Num: 52
Candidate Starts for Olive_45:
(18, 39286), (Start: 52 @39184 has 273 MA's), (Start: 69 @39154 has 13 MA's), (82, 39109),

Gene: OliverWalter_45 Start: 39206, Stop: 38991, Start Num: 52
Candidate Starts for OliverWalter_45:
(Start: 52 @39206 has 273 MA's), (Start: 69 @39176 has 13 MA's), (82, 39131),

Gene: Omniscient_45 Start: 39203, Stop: 38988, Start Num: 52
Candidate Starts for Omniscient_45:
(18, 39305), (Start: 52 @39203 has 273 MA's), (Start: 69 @39173 has 13 MA's), (82, 39128),

Gene: Oosterbaan_45 Start: 39194, Stop: 38979, Start Num: 52
Candidate Starts for Oosterbaan_45:
(Start: 52 @39194 has 273 MA's), (Start: 69 @39164 has 13 MA's), (82, 39119),

Gene: Opia_44 Start: 39429, Stop: 39223, Start Num: 56
Candidate Starts for Opia_44:
(Start: 56 @39429 has 29 MA's), (Start: 71 @39402 has 3 MA's), (73, 39399), (86, 39345), (96, 39312),

Gene: OrangeOswald_43 Start: 39030, Stop: 38794, Start Num: 38
Candidate Starts for OrangeOswald_43:
(Start: 38 @39030 has 44 MA's), (73, 38973), (89, 38907), (92, 38901),

Gene: Orcanus_26 Start: 19951, Stop: 19748, Start Num: 69
Candidate Starts for Orcanus_26:

(Start: 69 @19951 has 13 MA's),

Gene: Orfeu_45 Start: 38902, Stop: 38687, Start Num: 52

Candidate Starts for Orfeu_45:

(Start: 52 @38902 has 273 MA's), (Start: 69 @38872 has 13 MA's), (82, 38827), (92, 38794),

Gene: Orion_45 Start: 39192, Stop: 38977, Start Num: 52

Candidate Starts for Orion_45:

(18, 39294), (Start: 52 @39192 has 273 MA's), (Start: 69 @39162 has 13 MA's), (82, 39117),

Gene: Orwigg_45 Start: 38890, Stop: 38675, Start Num: 52

Candidate Starts for Orwigg_45:

(Start: 52 @38890 has 273 MA's), (Start: 69 @38860 has 13 MA's), (82, 38815),

Gene: PG1_45 Start: 39205, Stop: 38990, Start Num: 52

Candidate Starts for PG1_45:

(18, 39307), (Start: 52 @39205 has 273 MA's), (Start: 69 @39175 has 13 MA's), (82, 39130),

Gene: Pacifista_47 Start: 38896, Stop: 38681, Start Num: 52

Candidate Starts for Pacifista_47:

(Start: 52 @38896 has 273 MA's), (Start: 69 @38866 has 13 MA's), (82, 38821), (92, 38788),

Gene: PenguinLover67_46 Start: 41013, Stop: 40795, Start Num: 52

Candidate Starts for PenguinLover67_46:

(18, 41109), (Start: 52 @41013 has 273 MA's), (Start: 69 @40980 has 13 MA's), (78, 40953), (82, 40935), (105, 40830),

Gene: Periwinkle_42 Start: 31005, Stop: 30769, Start Num: 46

Candidate Starts for Periwinkle_42:

(Start: 46 @31005 has 36 MA's), (Start: 68 @30963 has 4 MA's), (77, 30942), (85, 30900), (98, 30852),

Gene: Phabuloso_36 Start: 29262, Stop: 29026, Start Num: 46

Candidate Starts for Phabuloso_36:

(Start: 46 @29262 has 36 MA's), (Start: 68 @29220 has 4 MA's), (77, 29199), (85, 29157), (98, 29109),

Gene: Phaedrus_41 Start: 38950, Stop: 38714, Start Num: 38

Candidate Starts for Phaedrus_41:

(Start: 38 @38950 has 44 MA's), (73, 38893), (89, 38827), (92, 38821),

Gene: Phamished_45 Start: 39200, Stop: 38985, Start Num: 52

Candidate Starts for Phamished_45:

(Start: 52 @39200 has 273 MA's), (Start: 69 @39170 has 13 MA's), (82, 39125),

Gene: Phantasmagoria_44 Start: 39441, Stop: 39235, Start Num: 56

Candidate Starts for Phantasmagoria_44:

(Start: 56 @39441 has 29 MA's), (Start: 71 @39414 has 3 MA's), (73, 39411), (86, 39357), (96, 39324),

Gene: Phareon_45 Start: 38904, Stop: 38689, Start Num: 52

Candidate Starts for Phareon_45:

(Start: 52 @38904 has 273 MA's), (Start: 69 @38874 has 13 MA's), (82, 38829), (92, 38796),

Gene: PhatCats2014_45 Start: 39209, Stop: 38994, Start Num: 52
Candidate Starts for PhatCats2014_45:
(18, 39311), (Start: 52 @39209 has 273 MA's), (Start: 69 @39179 has 13 MA's), (82, 39134),

Gene: PhatLouie_45 Start: 39198, Stop: 38983, Start Num: 52
Candidate Starts for PhatLouie_45:
(Start: 52 @39198 has 273 MA's), (Start: 69 @39168 has 13 MA's), (82, 39123),

Gene: Phayeta_44 Start: 38895, Stop: 38659, Start Num: 38
Candidate Starts for Phayeta_44:
(Start: 38 @38895 has 44 MA's), (73, 38838), (89, 38772), (92, 38766),

Gene: Phelemich_43 Start: 39919, Stop: 39710, Start Num: 52
Candidate Starts for Phelemich_43:
(18, 40027), (Start: 52 @39919 has 273 MA's), (Start: 69 @39904 has 13 MA's), (82, 39859),

Gene: PhenghisKhan_44 Start: 38804, Stop: 38589, Start Num: 52
Candidate Starts for PhenghisKhan_44:
(Start: 52 @38804 has 273 MA's), (Start: 69 @38774 has 13 MA's), (82, 38729),

Gene: Pherdinand_45 Start: 39200, Stop: 38985, Start Num: 52
Candidate Starts for Pherdinand_45:
(Start: 52 @39200 has 273 MA's), (Start: 69 @39170 has 13 MA's), (82, 39125), (92, 39092),

Gene: Phergie_44 Start: 38795, Stop: 38580, Start Num: 52
Candidate Starts for Phergie_44:
(Start: 52 @38795 has 273 MA's), (Start: 69 @38765 has 13 MA's), (82, 38720),

Gene: Philly_42 Start: 38881, Stop: 38645, Start Num: 38
Candidate Starts for Philly_42:
(Start: 38 @38881 has 44 MA's), (73, 38824), (89, 38758), (92, 38752),

Gene: Phipps_45 Start: 39171, Stop: 38956, Start Num: 52
Candidate Starts for Phipps_45:
(Start: 52 @39171 has 273 MA's), (Start: 69 @39141 has 13 MA's), (82, 39096),

Gene: Phistory_39 Start: 29860, Stop: 29666, Start Num: 68
Candidate Starts for Phistory_39:
(Start: 46 @29902 has 36 MA's), (Start: 68 @29860 has 4 MA's), (77, 29839), (85, 29797), (98, 29749),

Gene: Phleuron_44 Start: 38801, Stop: 38586, Start Num: 52
Candidate Starts for Phleuron_44:
(Start: 52 @38801 has 273 MA's), (Start: 69 @38771 has 13 MA's), (82, 38726),

Gene: PhluffyCoco_26 Start: 18717, Stop: 18502, Start Num: 66
Candidate Starts for PhluffyCoco_26:
(Start: 66 @18717 has 3 MA's),

Gene: Phlyer_43 Start: 39769, Stop: 39533, Start Num: 38
Candidate Starts for Phlyer_43:
(Start: 38 @39769 has 44 MA's), (73, 39712), (89, 39646), (92, 39640),

Gene: PhrankReynolds_43 Start: 38801, Stop: 38586, Start Num: 52
Candidate Starts for PhrankReynolds_43:
(Start: 52 @38801 has 273 MA's), (Start: 69 @38771 has 13 MA's), (82, 38726),

Gene: PhrodoBaggins_44 Start: 39188, Stop: 38973, Start Num: 52
Candidate Starts for PhrodoBaggins_44:
(18, 39290), (Start: 52 @39188 has 273 MA's), (Start: 69 @39158 has 13 MA's), (82, 39113),

Gene: Phunky_45 Start: 39201, Stop: 38986, Start Num: 52
Candidate Starts for Phunky_45:
(Start: 52 @39201 has 273 MA's), (Start: 69 @39171 has 13 MA's), (82, 39126), (92, 39093),

Gene: Piglet_0044 Start: 39308, Stop: 39093, Start Num: 52
Candidate Starts for Piglet_0044:
(Start: 52 @39308 has 273 MA's), (Start: 69 @39278 has 13 MA's), (82, 39233), (92, 39200),

Gene: Pine5_39 Start: 32324, Stop: 32103, Start Num: 54
Candidate Starts for Pine5_39:
(Start: 54 @32324 has 13 MA's), (75, 32294), (78, 32279), (97, 32210),

Gene: PinheadLarry_45 Start: 38914, Stop: 38699, Start Num: 52
Candidate Starts for PinheadLarry_45:
(Start: 52 @38914 has 273 MA's), (Start: 69 @38884 has 13 MA's), (82, 38839), (92, 38806),

Gene: Pinkman_44 Start: 38757, Stop: 38542, Start Num: 52
Candidate Starts for Pinkman_44:
(Start: 52 @38757 has 273 MA's), (Start: 69 @38727 has 13 MA's), (82, 38682), (92, 38649),

Gene: Pipefish_45 Start: 40422, Stop: 40186, Start Num: 38
Candidate Starts for Pipefish_45:
(Start: 38 @40422 has 44 MA's), (73, 40365), (89, 40299), (92, 40293),

Gene: Pipsqueak_45 Start: 39199, Stop: 38984, Start Num: 52
Candidate Starts for Pipsqueak_45:
(Start: 52 @39199 has 273 MA's), (Start: 69 @39169 has 13 MA's), (82, 39124),

Gene: Placalicious_44 Start: 38892, Stop: 38677, Start Num: 52
Candidate Starts for Placalicious_44:
(Start: 52 @38892 has 273 MA's), (Start: 69 @38862 has 13 MA's), (82, 38817),

Gene: Plmatters_45 Start: 39198, Stop: 38983, Start Num: 52
Candidate Starts for Plmatters_45:
(18, 39300), (Start: 52 @39198 has 273 MA's), (Start: 69 @39168 has 13 MA's), (82, 39123), (92, 39090),

Gene: Podrick_45 Start: 39189, Stop: 38974, Start Num: 52
Candidate Starts for Podrick_45:
(18, 39291), (Start: 52 @39189 has 273 MA's), (Start: 69 @39159 has 13 MA's), (82, 39114),

Gene: Polka_26 Start: 18904, Stop: 18683, Start Num: 69
Candidate Starts for Polka_26:
(Start: 69 @18904 has 13 MA's),

Gene: Polly_32 Start: 28797, Stop: 28561, Start Num: 46

Candidate Starts for Polly_32:

(Start: 46 @28797 has 36 MA's), (Start: 68 @28755 has 4 MA's), (77, 28734), (85, 28692), (98, 28644), (107, 28572),

Gene: Pollywog_25 Start: 25545, Stop: 25366, Start Num: 63

Candidate Starts for Pollywog_25:

(Start: 51 @25569 has 1 MA's), (Start: 63 @25545 has 10 MA's), (Start: 69 @25539 has 13 MA's), (78, 25512), (84, 25479), (103, 25383),

Gene: Pops_45 Start: 39213, Stop: 38998, Start Num: 52

Candidate Starts for Pops_45:

(18, 39315), (Start: 52 @39213 has 273 MA's), (Start: 69 @39183 has 13 MA's), (82, 39138), (92, 39105),

Gene: Poster_39 Start: 38171, Stop: 37965, Start Num: 53

Candidate Starts for Poster_39:

(Start: 53 @38171 has 23 MA's), (Start: 69 @38150 has 13 MA's), (78, 38123), (82, 38105), (86, 38087), (95, 38057), (97, 38051), (99, 38030),

Gene: Potter_44 Start: 38913, Stop: 38698, Start Num: 52

Candidate Starts for Potter_44:

(18, 39015), (Start: 52 @38913 has 273 MA's), (Start: 69 @38883 has 13 MA's), (82, 38838),

Gene: Prickles_45 Start: 39189, Stop: 38974, Start Num: 52

Candidate Starts for Prickles_45:

(Start: 52 @39189 has 273 MA's), (Start: 69 @39159 has 13 MA's), (82, 39114),

Gene: Prince_41 Start: 39354, Stop: 39148, Start Num: 53

Candidate Starts for Prince_41:

(Start: 53 @39354 has 23 MA's), (Start: 69 @39333 has 13 MA's), (78, 39306), (82, 39288), (86, 39270), (95, 39240), (97, 39234),

Gene: PrincessTrina_37 Start: 30387, Stop: 30169, Start Num: 57

Candidate Starts for PrincessTrina_37:

(14, 30537), (19, 30492), (20, 30489), (29, 30450), (42, 30417), (Start: 57 @30387 has 18 MA's), (70, 30366), (81, 30330), (84, 30315), (87, 30300), (92, 30288),

Gene: ProfessorX_45 Start: 39184, Stop: 38969, Start Num: 52

Candidate Starts for ProfessorX_45:

(18, 39286), (Start: 52 @39184 has 273 MA's), (Start: 69 @39154 has 13 MA's), (82, 39109),

Gene: Puhltonio_45 Start: 39205, Stop: 38990, Start Num: 52

Candidate Starts for Puhltonio_45:

(Start: 52 @39205 has 273 MA's), (Start: 69 @39175 has 13 MA's), (82, 39130), (92, 39097),

Gene: Purky_30 Start: 26584, Stop: 26351, Start Num: 49

Candidate Starts for Purky_30:

(21, 26659), (23, 26656), (24, 26650), (43, 26593), (Start: 49 @26584 has 4 MA's), (Start: 60 @26560 has 1 MA's), (80, 26512), (98, 26434), (100, 26419),

Gene: Purky_36 Start: 28450, Stop: 28653, Start Num: 51

Candidate Starts for Purky_36:

(Start: 51 @28450 has 1 MA's), (Start: 57 @28462 has 18 MA's), (Start: 69 @28480 has 13 MA's), (96, 28588), (98, 28600),

Gene: QueenBeane_45 Start: 39195, Stop: 38980, Start Num: 52

Candidate Starts for QueenBeane_45:

(Start: 52 @39195 has 273 MA's), (Start: 69 @39165 has 13 MA's), (82, 39120), (92, 39087),

Gene: Quesadilla_46 Start: 40987, Stop: 40781, Start Num: 52

Candidate Starts for Quesadilla_46:

(18, 41086), (Start: 52 @40987 has 273 MA's), (Start: 69 @40966 has 13 MA's), (82, 40921), (84, 40912),

Gene: Quisquilliae_45 Start: 39223, Stop: 39008, Start Num: 52

Candidate Starts for Quisquilliae_45:

(18, 39325), (Start: 52 @39223 has 273 MA's), (Start: 69 @39193 has 13 MA's), (82, 39148),

Gene: Qyrzula_41 Start: 39560, Stop: 39381, Start Num: 71

Candidate Starts for Qyrzula_41:

(Start: 56 @39587 has 29 MA's), (Start: 71 @39560 has 3 MA's), (73, 39557), (86, 39503), (96, 39470),

Gene: RagingRooster_43 Start: 39031, Stop: 38795, Start Num: 38

Candidate Starts for RagingRooster_43:

(Start: 38 @39031 has 44 MA's), (73, 38974), (89, 38908), (92, 38902),

Gene: RavenCo17_36 Start: 30180, Stop: 29944, Start Num: 46

Candidate Starts for RavenCo17_36:

(Start: 46 @30180 has 36 MA's), (Start: 68 @30138 has 4 MA's), (77, 30117), (85, 30075), (98, 30027),

Gene: RawrgerThat_41 Start: 39199, Stop: 38993, Start Num: 53

Candidate Starts for RawrgerThat_41:

(Start: 53 @39199 has 23 MA's), (Start: 69 @39178 has 13 MA's), (78, 39151), (82, 39133), (86, 39115), (95, 39085), (97, 39079),

Gene: RayTheFireFly_38 Start: 29870, Stop: 29667, Start Num: 64

Candidate Starts for RayTheFireFly_38:

(Start: 46 @29903 has 36 MA's), (Start: 64 @29870 has 1 MA's), (77, 29840), (84, 29807), (85, 29798), (98, 29750),

Gene: RedFox_26 Start: 18732, Stop: 18517, Start Num: 66

Candidate Starts for RedFox_26:

(Start: 66 @18732 has 3 MA's),

Gene: RedMaple_44 Start: 39202, Stop: 38987, Start Num: 52

Candidate Starts for RedMaple_44:

(Start: 52 @39202 has 273 MA's), (Start: 69 @39172 has 13 MA's), (82, 39127), (92, 39094),

Gene: Rem711_6 Start: 3521, Stop: 3279, Start Num: 44

Candidate Starts for Rem711_6:

(10, 3722), (22, 3584), (Start: 44 @3521 has 1 MA's), (79, 3443), (85, 3413), (90, 3398), (94, 3380),

Gene: Reprobate_44 Start: 39924, Stop: 39715, Start Num: 52

Candidate Starts for Reprobate_44:

(18, 40032), (Start: 52 @39924 has 273 MA's), (Start: 69 @39909 has 13 MA's), (82, 39864),

Gene: Rhinoforte_44 Start: 39550, Stop: 39344, Start Num: 56

Candidate Starts for Rhinoforte_44:

(Start: 56 @39550 has 29 MA's), (Start: 71 @39523 has 3 MA's), (73, 39520), (86, 39466), (96, 39433),

Gene: Rich_42 Start: 39520, Stop: 39311, Start Num: 52

Candidate Starts for Rich_42:

(Start: 52 @39520 has 273 MA's), (Start: 69 @39505 has 13 MA's), (75, 39493), (82, 39460), (92, 39427),

Gene: Ricotta_45 Start: 38891, Stop: 38706, Start Num: 69

Candidate Starts for Ricotta_45:

(Start: 52 @38921 has 273 MA's), (Start: 69 @38891 has 13 MA's), (82, 38846), (92, 38813),

Gene: Riggan_45 Start: 39182, Stop: 38967, Start Num: 52

Candidate Starts for Riggan_45:

(Start: 52 @39182 has 273 MA's), (Start: 69 @39152 has 13 MA's), (82, 39107),

Gene: Rimu_47 Start: 38931, Stop: 38716, Start Num: 52

Candidate Starts for Rimu_47:

(Start: 52 @38931 has 273 MA's), (Start: 69 @38901 has 13 MA's), (82, 38856), (92, 38823),

Gene: Rita1961_43 Start: 39014, Stop: 38778, Start Num: 38

Candidate Starts for Rita1961_43:

(Start: 38 @39014 has 44 MA's), (73, 38957), (89, 38891), (92, 38885),

Gene: Robyn_44 Start: 38766, Stop: 38551, Start Num: 52

Candidate Starts for Robyn_44:

(18, 38868), (Start: 52 @38766 has 273 MA's), (Start: 69 @38736 has 13 MA's), (82, 38691),

Gene: Roliet_45 Start: 39191, Stop: 38976, Start Num: 52

Candidate Starts for Roliet_45:

(Start: 52 @39191 has 273 MA's), (Start: 69 @39161 has 13 MA's), (82, 39116),

Gene: RomaT_43 Start: 39804, Stop: 39568, Start Num: 38

Candidate Starts for RomaT_43:

(Start: 38 @39804 has 44 MA's), (73, 39747), (89, 39681), (92, 39675),

Gene: Roscoe_46 Start: 39429, Stop: 39214, Start Num: 52

Candidate Starts for Roscoe_46:

(18, 39531), (Start: 52 @39429 has 273 MA's), (Start: 69 @39399 has 13 MA's), (82, 39354),

Gene: Rosebush_43 Start: 39530, Stop: 39351, Start Num: 71

Candidate Starts for Rosebush_43:

(Start: 56 @39557 has 29 MA's), (Start: 71 @39530 has 3 MA's), (73, 39527), (86, 39473), (96, 39440),

Gene: RosiePosie_37 Start: 30386, Stop: 30168, Start Num: 57

Candidate Starts for RosiePosie_37:

(14, 30536), (19, 30491), (20, 30488), (29, 30449), (42, 30416), (Start: 57 @30386 has 18 MA's), (70, 30365), (81, 30329), (84, 30314), (87, 30299), (92, 30287),

Gene: Roy17_45 Start: 38895, Stop: 38680, Start Num: 52

Candidate Starts for Roy17_45:

(Start: 52 @38895 has 273 MA's), (Start: 69 @38865 has 13 MA's), (82, 38820), (92, 38787),

Gene: Rubeelu_32 Start: 26751, Stop: 26518, Start Num: 49

Candidate Starts for Rubeelu_32:

(21, 26826), (23, 26823), (24, 26817), (43, 26760), (Start: 49 @26751 has 4 MA's), (Start: 60 @26727 has 1 MA's), (80, 26679), (98, 26601), (107, 26529),

Gene: SDcharge11_45 Start: 39169, Stop: 38954, Start Num: 52

Candidate Starts for SDcharge11_45:

(18, 39271), (Start: 52 @39169 has 273 MA's), (Start: 69 @39139 has 13 MA's), (82, 39094),

Gene: Sabella_43 Start: 39434, Stop: 39228, Start Num: 56

Candidate Starts for Sabella_43:

(Start: 56 @39434 has 29 MA's), (Start: 71 @39407 has 3 MA's), (73, 39404), (86, 39350), (96, 39317),

Gene: Saguaro_45 Start: 40648, Stop: 40445, Start Num: 52

Candidate Starts for Saguaro_45:

(15, 40756), (Start: 52 @40648 has 273 MA's), (82, 40585), (84, 40576), (95, 40537),

Gene: Sahara_29 Start: 25333, Stop: 25133, Start Num: 54

Candidate Starts for Sahara_29:

(Start: 54 @25333 has 13 MA's), (75, 25312), (78, 25297), (81, 25285), (88, 25249),

Gene: Samaymay_45 Start: 39195, Stop: 38980, Start Num: 52

Candidate Starts for Samaymay_45:

(Start: 52 @39195 has 273 MA's), (Start: 69 @39165 has 13 MA's), (82, 39120), (92, 39087),

Gene: SassyCat97_44 Start: 38901, Stop: 38686, Start Num: 52

Candidate Starts for SassyCat97_44:

(18, 39003), (Start: 52 @38901 has 273 MA's), (Start: 69 @38871 has 13 MA's), (82, 38826),

Gene: Savage_30 Start: 25663, Stop: 25463, Start Num: 54

Candidate Starts for Savage_30:

(Start: 54 @25663 has 13 MA's), (75, 25642), (78, 25627), (81, 25615), (88, 25579),

Gene: Sbash_32 Start: 28849, Stop: 28601, Start Num: 49

Candidate Starts for Sbash_32:

(21, 28924), (23, 28921), (24, 28915), (43, 28858), (Start: 49 @28849 has 4 MA's), (Start: 60 @28825 has 1 MA's), (98, 28699), (100, 28684), (108, 28609),

Gene: Scavito_37 Start: 30384, Stop: 30166, Start Num: 57

Candidate Starts for Scavito_37:

(14, 30534), (19, 30489), (20, 30486), (29, 30447), (42, 30414), (Start: 57 @30384 has 18 MA's), (70, 30363), (81, 30327), (84, 30312), (87, 30297), (92, 30285),

Gene: Schadenfreude_44 Start: 38752, Stop: 38537, Start Num: 52

Candidate Starts for Schadenfreude_44:

(18, 38854), (Start: 52 @38752 has 273 MA's), (Start: 69 @38722 has 13 MA's), (82, 38677),

Gene: Schueller_45 Start: 38914, Stop: 38699, Start Num: 52

Candidate Starts for Schueller_45:

(Start: 52 @38914 has 273 MA's), (Start: 69 @38884 has 13 MA's), (82, 38839),

Gene: Scoot17C_45 Start: 39194, Stop: 38979, Start Num: 52

Candidate Starts for Scoot17C_45:

(18, 39296), (Start: 52 @39194 has 273 MA's), (Start: 69 @39164 has 13 MA's), (82, 39119),

Gene: Scrick_45 Start: 38919, Stop: 38704, Start Num: 52

Candidate Starts for Scrick_45:

(18, 39021), (Start: 52 @38919 has 273 MA's), (Start: 69 @38889 has 13 MA's), (82, 38844),

Gene: Selr12_46 Start: 38922, Stop: 38707, Start Num: 52

Candidate Starts for Selr12_46:

(18, 39024), (Start: 52 @38922 has 273 MA's), (Start: 69 @38892 has 13 MA's), (82, 38847),

Gene: Serendipitous_43 Start: 39478, Stop: 39269, Start Num: 52

Candidate Starts for Serendipitous_43:

(Start: 52 @39478 has 273 MA's), (Start: 69 @39463 has 13 MA's), (82, 39418),

Gene: Serendipity_45 Start: 39219, Stop: 39004, Start Num: 52

Candidate Starts for Serendipity_45:

(Start: 52 @39219 has 273 MA's), (Start: 69 @39189 has 13 MA's), (82, 39144), (92, 39111),

Gene: Serpentine_0045 Start: 39200, Stop: 38985, Start Num: 52

Candidate Starts for Serpentine_0045:

(Start: 52 @39200 has 273 MA's), (Start: 69 @39170 has 13 MA's), (82, 39125), (92, 39092),

Gene: Shambre1_30 Start: 22778, Stop: 22578, Start Num: 62

Candidate Starts for Shambre1_30:

(Start: 62 @22778 has 3 MA's), (106, 22595),

Gene: Shatter_38 Start: 32837, Stop: 32601, Start Num: 35

Candidate Starts for Shatter_38:

(34, 32840), (Start: 35 @32837 has 5 MA's), (47, 32816), (Start: 53 @32810 has 23 MA's), (Start: 67 @32786 has 3 MA's), (73, 32780), (96, 32690),

Gene: Sheila_45 Start: 39237, Stop: 39022, Start Num: 52

Candidate Starts for Sheila_45:

(Start: 52 @39237 has 273 MA's), (Start: 69 @39207 has 13 MA's), (82, 39162), (92, 39129),

Gene: ShiVal_45 Start: 39193, Stop: 38978, Start Num: 52

Candidate Starts for ShiVal_45:

(18, 39295), (Start: 52 @39193 has 273 MA's), (Start: 69 @39163 has 13 MA's), (82, 39118),

Gene: ShroomBoi_22 Start: 24354, Stop: 24175, Start Num: 63

Candidate Starts for ShroomBoi_22:

(Start: 51 @24378 has 1 MA's), (Start: 63 @24354 has 10 MA's), (Start: 69 @24348 has 13 MA's), (75, 24336), (78, 24321), (84, 24288), (103, 24192),

Gene: Sigman_45 Start: 39185, Stop: 38970, Start Num: 52

Candidate Starts for Sigman_45:

(Start: 52 @39185 has 273 MA's), (Start: 69 @39155 has 13 MA's), (82, 39110), (92, 39077),

Gene: Simielle_44 Start: 38888, Stop: 38673, Start Num: 52

Candidate Starts for Simielle_44:

(Start: 52 @38888 has 273 MA's), (Start: 69 @38858 has 13 MA's), (82, 38813), (92, 38780),

Gene: SirJeffery_44 Start: 39650, Stop: 39441, Start Num: 52

Candidate Starts for SirJeffery_44:

(16, 39764), (18, 39758), (Start: 52 @39650 has 273 MA's), (Start: 69 @39635 has 13 MA's), (75, 39623), (82, 39590),

Gene: Sisko_38 Start: 33610, Stop: 33383, Start Num: 39

Candidate Starts for Sisko_38:

(Start: 39 @33610 has 5 MA's), (91, 33493), (102, 33424),

Gene: Skippy_45 Start: 39183, Stop: 38968, Start Num: 52

Candidate Starts for Skippy_45:

(18, 39285), (Start: 52 @39183 has 273 MA's), (Start: 69 @39153 has 13 MA's), (82, 39108),

Gene: Slatt_45 Start: 39209, Stop: 38994, Start Num: 52

Candidate Starts for Slatt_45:

(Start: 52 @39209 has 273 MA's), (Start: 69 @39179 has 13 MA's), (82, 39134),

Gene: Sleepyhead_33 Start: 26741, Stop: 26493, Start Num: 46

Candidate Starts for Sleepyhead_33:

(25, 26798), (Start: 46 @26741 has 36 MA's), (55, 26723), (83, 26651), (85, 26636),

Gene: SlippinJimmy_43 Start: 39796, Stop: 39560, Start Num: 38

Candidate Starts for SlippinJimmy_43:

(Start: 38 @39796 has 44 MA's), (73, 39739), (89, 39673), (92, 39667),

Gene: Soile_45 Start: 38912, Stop: 38697, Start Num: 52

Candidate Starts for Soile_45:

(Start: 52 @38912 has 273 MA's), (Start: 69 @38882 has 13 MA's), (82, 38837), (92, 38804),

Gene: Solosis_44 Start: 38910, Stop: 38695, Start Num: 52

Candidate Starts for Solosis_44:

(Start: 52 @38910 has 273 MA's), (Start: 69 @38880 has 13 MA's), (82, 38835), (92, 38802),

Gene: Sophia_44 Start: 38910, Stop: 38695, Start Num: 52

Candidate Starts for Sophia_44:

(Start: 52 @38910 has 273 MA's), (Start: 69 @38880 has 13 MA's), (82, 38835),

Gene: Soto_45 Start: 39203, Stop: 38988, Start Num: 52

Candidate Starts for Soto_45:

(Start: 52 @39203 has 273 MA's), (Start: 69 @39173 has 13 MA's), (82, 39128),

Gene: Sour_43 Start: 37566, Stop: 37306, Start Num: 41

Candidate Starts for Sour_43:

(Start: 41 @37566 has 7 MA's), (73, 37515),

Gene: Spartan300_45 Start: 39189, Stop: 38974, Start Num: 52

Candidate Starts for Spartan300_45:

(18, 39291), (Start: 52 @39189 has 273 MA's), (Start: 69 @39159 has 13 MA's), (82, 39114),

Gene: Spooky_39 Start: 29741, Stop: 29508, Start Num: 62

Candidate Starts for Spooky_39:

(33, 29801), (48, 29771), (Start: 62 @29741 has 3 MA's), (65, 29738), (73, 29723), (101, 29549), (104, 29543),

Gene: Sproutie_30 Start: 25663, Stop: 25463, Start Num: 54

Candidate Starts for Sproutie_30:

(Start: 54 @25663 has 13 MA's), (75, 25642), (78, 25627), (81, 25615), (88, 25579),

Gene: Squid_45 Start: 38901, Stop: 38686, Start Num: 52

Candidate Starts for Squid_45:

(18, 39003), (Start: 52 @38901 has 273 MA's), (Start: 69 @38871 has 13 MA's), (82, 38826),

Gene: Squiddly_40 Start: 31125, Stop: 30892, Start Num: 62

Candidate Starts for Squiddly_40:

(33, 31185), (48, 31155), (Start: 62 @31125 has 3 MA's), (65, 31122), (73, 31107), (101, 30933), (104, 30927),

Gene: Squiggle_45 Start: 38913, Stop: 38698, Start Num: 52

Candidate Starts for Squiggle_45:

(18, 39015), (Start: 52 @38913 has 273 MA's), (Start: 69 @38883 has 13 MA's), (82, 38838),

Gene: Stinger_39 Start: 37776, Stop: 37570, Start Num: 53

Candidate Starts for Stinger_39:

(Start: 53 @37776 has 23 MA's), (Start: 69 @37755 has 13 MA's), (73, 37749), (78, 37728), (82, 37710), (86, 37692), (95, 37662), (96, 37659), (97, 37656),

Gene: StinkyVeggy_45 Start: 39790, Stop: 39581, Start Num: 52

Candidate Starts for StinkyVeggy_45:

(18, 39898), (Start: 52 @39790 has 273 MA's), (Start: 69 @39775 has 13 MA's), (75, 39763),

Gene: Struggle_44 Start: 38751, Stop: 38536, Start Num: 52

Candidate Starts for Struggle_44:

(18, 38853), (Start: 52 @38751 has 273 MA's), (Start: 69 @38721 has 13 MA's), (82, 38676),

Gene: Suffolk_45 Start: 39200, Stop: 38985, Start Num: 52

Candidate Starts for Suffolk_45:

(Start: 52 @39200 has 273 MA's), (Start: 69 @39170 has 13 MA's), (82, 39125),

Gene: Suigeneris_44 Start: 39653, Stop: 39444, Start Num: 52

Candidate Starts for Suigeneris_44:

(16, 39767), (18, 39761), (Start: 52 @39653 has 273 MA's), (Start: 69 @39638 has 13 MA's), (75, 39626), (82, 39593),

Gene: Surely_45 Start: 39203, Stop: 38988, Start Num: 52

Candidate Starts for Surely_45:

(Start: 52 @39203 has 273 MA's), (Start: 69 @39173 has 13 MA's), (82, 39128),

Gene: Susceptit_35 Start: 29355, Stop: 29119, Start Num: 46

Candidate Starts for Susceptit_35:

(Start: 46 @29355 has 36 MA's), (Start: 68 @29313 has 4 MA's), (77, 29292), (85, 29250), (98, 29202), (107, 29130),

Gene: Swiphy_47 Start: 39198, Stop: 38983, Start Num: 52

Candidate Starts for Swiphy_47:

(Start: 52 @39198 has 273 MA's), (Start: 69 @39168 has 13 MA's), (82, 39123),

Gene: Swish_45 Start: 39186, Stop: 38971, Start Num: 52

Candidate Starts for Swish_45:

(Start: 52 @39186 has 273 MA's), (Start: 69 @39156 has 13 MA's), (82, 39111), (92, 39078),

Gene: SynergyX_43 Start: 39031, Stop: 38795, Start Num: 38

Candidate Starts for SynergyX_43:

(Start: 38 @39031 has 44 MA's), (73, 38974), (89, 38908), (92, 38902),

Gene: TA17A_44 Start: 39424, Stop: 39218, Start Num: 56

Candidate Starts for TA17A_44:

(Start: 56 @39424 has 29 MA's), (Start: 71 @39397 has 3 MA's), (73, 39394), (86, 39340), (96, 39307),

Gene: TallGrassMM_45 Start: 38825, Stop: 38610, Start Num: 52

Candidate Starts for TallGrassMM_45:

(Start: 52 @38825 has 273 MA's), (Start: 69 @38795 has 13 MA's), (82, 38750), (92, 38717),

Gene: TaylorSipht_26 Start: 18969, Stop: 18775, Start Num: 69

Candidate Starts for TaylorSipht_26:

(Start: 69 @18969 has 13 MA's),

Gene: Tayonia_35 Start: 29354, Stop: 29118, Start Num: 46

Candidate Starts for Tayonia_35:

(Start: 46 @29354 has 36 MA's), (Start: 68 @29312 has 4 MA's), (77, 29291), (85, 29249), (98, 29201), (107, 29129),

Gene: Telesworld_44 Start: 38898, Stop: 38683, Start Num: 52

Candidate Starts for Telesworld_44:

(Start: 52 @38898 has 273 MA's), (Start: 69 @38868 has 13 MA's), (82, 38823), (92, 38790),

Gene: ThetaBob_24 Start: 24665, Stop: 24492, Start Num: 69

Candidate Starts for ThetaBob_24:

(Start: 51 @24695 has 1 MA's), (Start: 63 @24671 has 10 MA's), (Start: 69 @24665 has 13 MA's), (78, 24638), (84, 24605), (103, 24509),

Gene: Thonko_43 Start: 36961, Stop: 36752, Start Num: 50

Candidate Starts for Thonko_43:

(13, 37108), (18, 37054), (Start: 50 @36961 has 2 MA's), (75, 36931), (92, 36865),

Gene: Thora_45 Start: 39202, Stop: 38987, Start Num: 52

Candidate Starts for Thora_45:

(Start: 52 @39202 has 273 MA's), (Start: 69 @39172 has 13 MA's), (82, 39127),

Gene: ThreeOh3D2_45 Start: 39200, Stop: 38985, Start Num: 52

Candidate Starts for ThreeOh3D2_45:

(18, 39302), (Start: 52 @39200 has 273 MA's), (Start: 69 @39170 has 13 MA's), (82, 39125),

Gene: Thunderbird_45 Start: 38906, Stop: 38691, Start Num: 52

Candidate Starts for Thunderbird_45:

(18, 39008), (Start: 52 @38906 has 273 MA's), (Start: 69 @38876 has 13 MA's), (82, 38831),

Gene: TimTam_34 Start: 29521, Stop: 29285, Start Num: 46

Candidate Starts for TimTam_34:

(Start: 46 @29521 has 36 MA's), (Start: 68 @29479 has 4 MA's), (85, 29416), (98, 29368), (99, 29356),

Gene: Timmi_44 Start: 38911, Stop: 38696, Start Num: 52

Candidate Starts for Timmi_44:

(Start: 52 @38911 has 273 MA's), (Start: 69 @38881 has 13 MA's), (82, 38836), (92, 38803),

Gene: Tinciduntolum_45 Start: 39562, Stop: 39356, Start Num: 56

Candidate Starts for Tinciduntolum_45:

(Start: 56 @39562 has 29 MA's), (Start: 71 @39535 has 3 MA's), (73, 39532), (86, 39478), (96, 39445),

Gene: TomBombadil_45 Start: 39196, Stop: 38981, Start Num: 52

Candidate Starts for TomBombadil_45:

(18, 39298), (Start: 52 @39196 has 273 MA's), (Start: 69 @39166 has 13 MA's), (82, 39121),

Gene: Tomlarah_45 Start: 39187, Stop: 38972, Start Num: 52

Candidate Starts for Tomlarah_45:

(18, 39289), (Start: 52 @39187 has 273 MA's), (Start: 69 @39157 has 13 MA's), (82, 39112),

Gene: Toni_44 Start: 38903, Stop: 38688, Start Num: 52

Candidate Starts for Toni_44:

(Start: 52 @38903 has 273 MA's), (Start: 69 @38873 has 13 MA's), (82, 38828), (92, 38795),

Gene: Tooj_45 Start: 39260, Stop: 39045, Start Num: 52

Candidate Starts for Tooj_45:

(Start: 52 @39260 has 273 MA's), (Start: 69 @39230 has 13 MA's), (82, 39185),

Gene: Tophat_37 Start: 30385, Stop: 30167, Start Num: 57

Candidate Starts for Tophat_37:

(14, 30535), (19, 30490), (20, 30487), (29, 30448), (42, 30415), (Start: 57 @30385 has 18 MA's), (70, 30364), (81, 30328), (84, 30313), (87, 30298), (92, 30286),

Gene: Tres_44 Start: 39437, Stop: 39231, Start Num: 56

Candidate Starts for Tres_44:

(Start: 56 @39437 has 29 MA's), (Start: 71 @39410 has 3 MA's), (73, 39407), (86, 39353), (96, 39320),

Gene: True_44 Start: 38900, Stop: 38685, Start Num: 52

Candidate Starts for True_44:

(18, 39002), (Start: 52 @38900 has 273 MA's), (Start: 69 @38870 has 13 MA's), (82, 38825),

Gene: Trumpet_35 Start: 29355, Stop: 29119, Start Num: 46

Candidate Starts for Trumpet_35:

(Start: 46 @29355 has 36 MA's), (Start: 68 @29313 has 4 MA's), (77, 29292), (85, 29250), (98, 29202), (107, 29130),

Gene: Trypo_45 Start: 39196, Stop: 38981, Start Num: 52
Candidate Starts for Trypo_45:
(18, 39298), (Start: 52 @39196 has 273 MA's), (Start: 69 @39166 has 13 MA's), (82, 39121),

Gene: TuertoX_30 Start: 25663, Stop: 25463, Start Num: 54
Candidate Starts for TuertoX_30:
(Start: 54 @25663 has 13 MA's), (75, 25642), (78, 25627), (81, 25615), (88, 25579),

Gene: Tydolla_43 Start: 39765, Stop: 39529, Start Num: 38
Candidate Starts for Tydolla_43:
(Start: 38 @39765 has 44 MA's), (73, 39708), (89, 39642), (92, 39636),

Gene: TyrionL_44 Start: 38759, Stop: 38544, Start Num: 52
Candidate Starts for TyrionL_44:
(Start: 52 @38759 has 273 MA's), (Start: 69 @38729 has 13 MA's), (82, 38684), (92, 38651),

Gene: UAch1_45 Start: 39209, Stop: 38994, Start Num: 52
Candidate Starts for UAch1_45:
(Start: 52 @39209 has 273 MA's), (Start: 69 @39179 has 13 MA's), (82, 39134),

Gene: UncleHowie_45 Start: 38899, Stop: 38684, Start Num: 52
Candidate Starts for UncleHowie_45:
(18, 39001), (Start: 52 @38899 has 273 MA's), (Start: 69 @38869 has 13 MA's), (82, 38824), (92, 38791),

Gene: Usavi_45 Start: 39200, Stop: 38985, Start Num: 52
Candidate Starts for Usavi_45:
(Start: 52 @39200 has 273 MA's), (Start: 69 @39170 has 13 MA's), (82, 39125),

Gene: Vaishali24_44 Start: 38861, Stop: 38646, Start Num: 52
Candidate Starts for Vaishali24_44:
(Start: 52 @38861 has 273 MA's), (Start: 69 @38831 has 13 MA's), (82, 38786), (92, 38753),

Gene: Valjean_45 Start: 39192, Stop: 38977, Start Num: 52
Candidate Starts for Valjean_45:
(18, 39294), (Start: 52 @39192 has 273 MA's), (Start: 69 @39162 has 13 MA's), (82, 39117),

Gene: Vasanti_31 Start: 26204, Stop: 25965, Start Num: 54
Candidate Starts for Vasanti_31:
(Start: 54 @26204 has 13 MA's), (75, 26183), (78, 26168), (81, 26156), (88, 26120), (109, 25973),

Gene: Vaticameos_41 Start: 36890, Stop: 36675, Start Num: 52
Candidate Starts for Vaticameos_41:
(Start: 52 @36890 has 273 MA's), (Start: 69 @36860 has 13 MA's), (82, 36815), (92, 36782),

Gene: Veritas_44 Start: 38762, Stop: 38547, Start Num: 52
Candidate Starts for Veritas_44:
(Start: 52 @38762 has 273 MA's), (Start: 69 @38732 has 13 MA's), (82, 38687),

Gene: Vincenzo_41 Start: 39951, Stop: 39745, Start Num: 53
Candidate Starts for Vincenzo_41:

(Start: 53 @39951 has 23 MA's), (Start: 69 @39930 has 13 MA's), (73, 39924), (78, 39903), (82, 39885), (84, 39876), (86, 39867), (95, 39837), (96, 39834), (97, 39831),

Gene: VioletZ_41 Start: 39270, Stop: 39064, Start Num: 53

Candidate Starts for VioletZ_41:

(Start: 53 @39270 has 23 MA's), (Start: 69 @39249 has 13 MA's), (78, 39222), (82, 39204), (86, 39186), (95, 39156), (97, 39150),

Gene: Virapocalypse_45 Start: 39187, Stop: 38972, Start Num: 52

Candidate Starts for Virapocalypse_45:

(Start: 52 @39187 has 273 MA's), (Start: 69 @39157 has 13 MA's), (82, 39112),

Gene: Virgeve_44 Start: 38967, Stop: 38752, Start Num: 52

Candidate Starts for Virgeve_44:

(18, 39069), (Start: 52 @38967 has 273 MA's), (Start: 69 @38937 has 13 MA's), (82, 38892),

Gene: Vista_45 Start: 39200, Stop: 38985, Start Num: 52

Candidate Starts for Vista_45:

(Start: 52 @39200 has 273 MA's), (Start: 69 @39170 has 13 MA's), (82, 39125),

Gene: Vivaldi_45 Start: 39229, Stop: 39014, Start Num: 52

Candidate Starts for Vivaldi_45:

(18, 39331), (Start: 52 @39229 has 273 MA's), (Start: 69 @39199 has 13 MA's), (82, 39154),

Gene: Vortex_45 Start: 38906, Stop: 38691, Start Num: 52

Candidate Starts for Vortex_45:

(Start: 52 @38906 has 273 MA's), (Start: 69 @38876 has 13 MA's), (82, 38831), (92, 38798),

Gene: Vulpecula_25 Start: 19383, Stop: 19186, Start Num: 61

Candidate Starts for Vulpecula_25:

(Start: 61 @19383 has 3 MA's),

Gene: Waleliano_40 Start: 39197, Stop: 38991, Start Num: 53

Candidate Starts for Waleliano_40:

(Start: 53 @39197 has 23 MA's), (Start: 69 @39176 has 13 MA's), (78, 39149), (82, 39131), (86, 39113), (95, 39083), (97, 39077),

Gene: Wallhey_44 Start: 38763, Stop: 38548, Start Num: 52

Candidate Starts for Wallhey_44:

(Start: 52 @38763 has 273 MA's), (Start: 69 @38733 has 13 MA's), (82, 38688), (92, 38655),

Gene: Waterdiva_45 Start: 39192, Stop: 38977, Start Num: 52

Candidate Starts for Waterdiva_45:

(Start: 52 @39192 has 273 MA's), (Start: 69 @39162 has 13 MA's), (82, 39117),

Gene: Weher20_45 Start: 39191, Stop: 38976, Start Num: 52

Candidate Starts for Weher20_45:

(Start: 52 @39191 has 273 MA's), (Start: 69 @39161 has 13 MA's), (82, 39116),

Gene: West99_44 Start: 39557, Stop: 39351, Start Num: 56

Candidate Starts for West99_44:

(Start: 56 @39557 has 29 MA's), (Start: 71 @39530 has 3 MA's), (73, 39527), (86, 39473), (96, 39440),

Gene: Whack_33 Start: 28160, Stop: 27924, Start Num: 46

Candidate Starts for Whack_33:

(32, 28187), (Start: 46 @28160 has 36 MA's), (90, 28040),

Gene: Whiteclaw_30 Start: 25663, Stop: 25463, Start Num: 54

Candidate Starts for Whiteclaw_30:

(Start: 54 @25663 has 13 MA's), (75, 25642), (78, 25627), (81, 25615), (88, 25579),

Gene: Whitney_42 Start: 32542, Stop: 32306, Start Num: 46

Candidate Starts for Whitney_42:

(Start: 46 @32542 has 36 MA's), (Start: 68 @32500 has 4 MA's), (77, 32479), (85, 32437), (98, 32389),

Gene: Windsor_44 Start: 38896, Stop: 38681, Start Num: 52

Candidate Starts for Windsor_44:

(18, 38998), (Start: 52 @38896 has 273 MA's), (Start: 69 @38866 has 13 MA's), (82, 38821),

Gene: Wooper_40 Start: 34857, Stop: 34591, Start Num: 41

Candidate Starts for Wooper_40:

(26, 34902), (27, 34893), (Start: 41 @34857 has 7 MA's), (Start: 69 @34809 has 13 MA's), (Start: 71 @34806 has 3 MA's), (75, 34797), (89, 34737), (97, 34710),

Gene: Xavier_44 Start: 38913, Stop: 38698, Start Num: 52

Candidate Starts for Xavier_44:

(Start: 52 @38913 has 273 MA's), (Start: 69 @38883 has 13 MA's), (82, 38838), (92, 38805),

Gene: Yago84_38 Start: 33684, Stop: 33457, Start Num: 39

Candidate Starts for Yago84_38:

(Start: 39 @33684 has 5 MA's), (91, 33567), (102, 33498),

Gene: Yahalom_43 Start: 39041, Stop: 38805, Start Num: 38

Candidate Starts for Yahalom_43:

(Start: 38 @39041 has 44 MA's), (73, 38984), (89, 38918), (92, 38912),

Gene: Yinz_43 Start: 39067, Stop: 38831, Start Num: 38

Candidate Starts for Yinz_43:

(Start: 38 @39067 has 44 MA's), (73, 39010), (89, 38944), (92, 38938),

Gene: Yoshand_45 Start: 39199, Stop: 38984, Start Num: 52

Candidate Starts for Yoshand_45:

(Start: 52 @39199 has 273 MA's), (Start: 69 @39169 has 13 MA's), (82, 39124), (92, 39091),

Gene: Yoshi_28 Start: 24080, Stop: 23901, Start Num: 63

Candidate Starts for Yoshi_28:

(Start: 51 @24104 has 1 MA's), (Start: 63 @24080 has 10 MA's), (Start: 69 @24074 has 13 MA's), (78, 24047), (84, 24014), (103, 23918),

Gene: YouGoGlencoco_45 Start: 39194, Stop: 38979, Start Num: 52

Candidate Starts for YouGoGlencoco_45:

(Start: 52 @39194 has 273 MA's), (Start: 69 @39164 has 13 MA's), (82, 39119),

Gene: Zaider_46 Start: 39424, Stop: 39209, Start Num: 52

Candidate Starts for Zaider_46:

(Start: 52 @39424 has 273 MA's), (Start: 69 @39394 has 13 MA's), (82, 39349),

Gene: Zameen_35 Start: 29354, Stop: 29118, Start Num: 46

Candidate Starts for Zameen_35:

(Start: 46 @29354 has 36 MA's), (Start: 68 @29312 has 4 MA's), (77, 29291), (85, 29249), (98, 29201), (107, 29129),

Gene: Zelda_45 Start: 39241, Stop: 39026, Start Num: 52

Candidate Starts for Zelda_45:

(Start: 52 @39241 has 273 MA's), (Start: 69 @39211 has 13 MA's), (82, 39166),

Gene: Zemanar_41 Start: 39200, Stop: 38994, Start Num: 53

Candidate Starts for Zemanar_41:

(Start: 53 @39200 has 23 MA's), (Start: 69 @39179 has 13 MA's), (78, 39152), (82, 39134), (86, 39116), (95, 39086), (97, 39080),

Gene: Zenteno07_48 Start: 38553, Stop: 38338, Start Num: 52

Candidate Starts for Zenteno07_48:

(Start: 52 @38553 has 273 MA's), (Start: 69 @38529 has 13 MA's), (84, 38475), (105, 38379),

Gene: Zonia_45 Start: 39213, Stop: 38998, Start Num: 52

Candidate Starts for Zonia_45:

(Start: 52 @39213 has 273 MA's), (Start: 69 @39183 has 13 MA's), (82, 39138), (92, 39105),