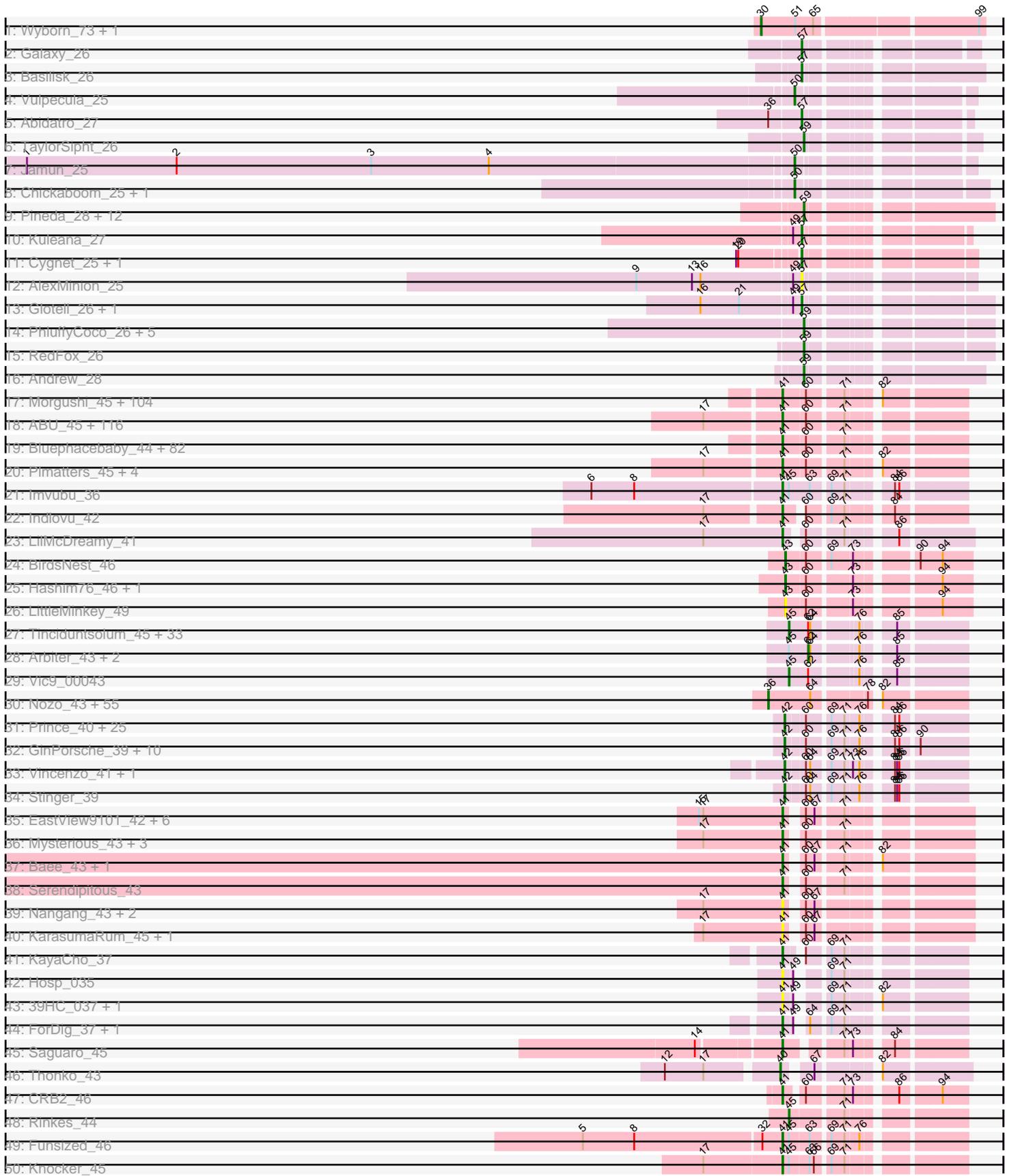
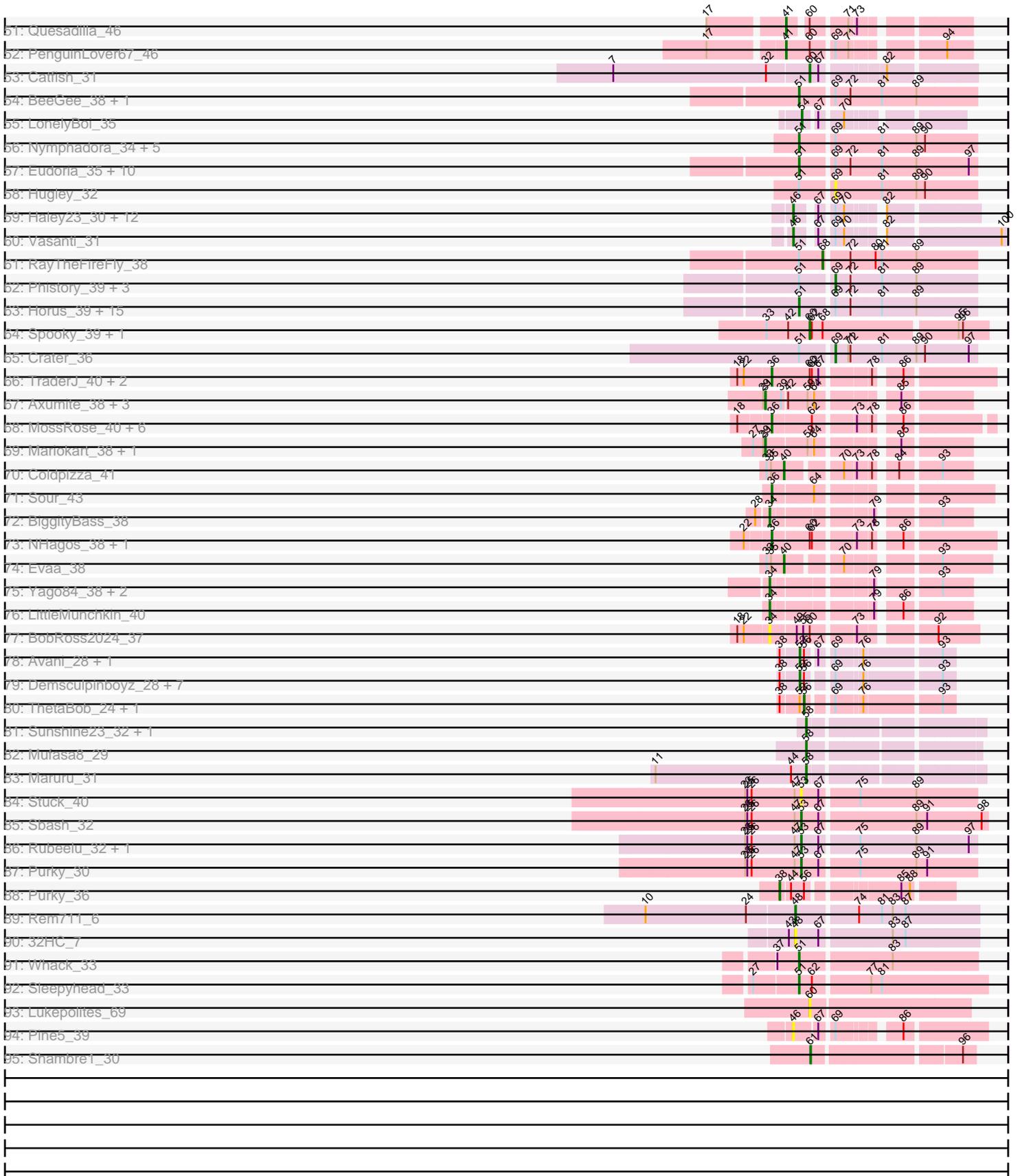


Pham 283349



Pham 283349



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 283349 Report

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

Pham number 283349 has 637 members, 86 are drafts.

Phages represented in each track:

- Track 1 : Wyborn_73, Sicarius2_74
- Track 2 : Galaxy_26
- Track 3 : Basilisk_26
- Track 4 : Vulpecula_25
- Track 5 : Abidatro_27
- Track 6 : TaylorSipht_26
- Track 7 : Jamun_25
- Track 8 : Chickaboom_25, Brynnie_25
- Track 9 : Pineda_28, Polka_26, Coral_26, Colusalem_27, Lunar_27, Orcanus_26, Toad24_27, HannahPhantana_27, Cote_27, Daob_27, Amelia_27, OtsoOtso_26, Melons_27
- Track 10 : Kuleana_27
- Track 11 : Cygnet_25, Antrice_26
- Track 12 : AlexMinion_25
- Track 13 : Glotell_26, Leona_25
- Track 14 : PhluffyCoco_26, Atlantica_26, Amphitrite_26, DanHam62_26, KHumphrey_26, Camara_26
- Track 15 : RedFox_26
- Track 16 : Andrew_28
- Track 17 : Morgushi_45, MiniBoss_45, Soile_45, Beaglebox_44, Haleema_44, Solosis_44, Jesabah_45, Lulumae_44, Telesworld_44, Emiris_45, Brilliant_45, Cobra_45, Swish_45, Wallhey_44, Vaishali24_44, JacAttac_45, Orfeu_44, Ricotta_44, Mikota_45, Iridessa_45, KingTut_36, Vaticameos_41, Piglet_0044, Vortex_45, PallasAthena_45, Fozzie_44, Apizium_44, Khan1_45, SallyH_45, MRabcd_44, Puhltonio_45, Andre_45, Lehmann_45, Timmi_44, HSavage_45, Maskar_44, Dice_44, Derpp_44, Carthage_43, TallGrassMM_45, Labeouficaum_44, Pherdinand_45, Cannibal_45, Dione_44, Pinkman_44, Riverton_44, Samaymay_45, LuckyMarjie_44, DuchessDung_43, Pacifista_44, Cher_44, Nathan_45, Gwennie1_45, Aleia_45, MrPhizzler_45, RedMaple_44, Murdoc_45, Serpentine_0045, Grand2040_44, FluffyNinja_45, KLucky39_45, Simielle_44, Zonia_45, Maru_44, Rimu_45, Triad_45, Mcshane_44, Yoshand_45, BlackStallion_45, Gareth_44, Kwksand96_44, Banjo_44, Kwadwo_44, Cornbread_44, Frankicide_45, Freya_44, KlimbOn_45, Phunky_45, Roy17_45, OSmaximus_45, Ashraf_44, ImtiyazSitla_44, Serendipity_45, Legolas_44, CamL_45, Mana_44, Sheila_45, QueenBeane_45, Gyarad_0045, RedRaider89_46, GeneCoco_45, ElvisPhasley_45, PinheadLarry_45, Xavier_44, MelsMeow_44, Longacauda_44, Toni_44, TyrionL_44, Childish_44, Newman_45, Hocus_44,

Sigman_45, Phareon_45, Daffy_45, Inverness_45

- Track 18 : ABU_45, TooFast2Furius_47, Spartan300_45, PhrodoBaggins_44, Badfish_45, LasagnaCat_45, DoesntMatter_44, Horchata_45, Scrick_45, LostAndPhound_44, Chute_44, Katniss_45, Orion_45, Keitherie_45, Scoot17C_45, Charles1_45, Megatron_45, Omniscient_45, PhatCats2014_45, Lulwa_45, Held_45, HenryJackson_44, GreenChile_45, Harvey_45, Robyn_44, Nyala_44, DaddyDaniels_45, BlacksBerry_44, Olak_44, AltPhacts_45, Morty_45, DonSanchon_44, Gophee_45, Potter_44, HighStump_44, FleetyMac_45, ShadowBud_45, Aonishiki_46, CampRoach_45, LeiMonet_46, Kimbrough_45, Fang_45, ShiVal_45, Lumine_44, TomBombadil_45, Craff_45, Jiraiya_44, CharlieGBrown_44, True_44, Anderson_45, Struggle_44, Fringe_45, EmpTee_45, SirBeauregard_45, Adriana_45, Mesmerelda_44, Chaelin_45, Mecca_44, Valjean_45, PG1_45, Megamind20_45, Roscoe_46, Chuni_44, Plata_45, Vivaldi_45, DoOn_46, Nacho_0045, Chorkpop_45, SassyCat97_44, Numberben_45, DelRivs_44, Giraffe_45, MitKao_45, Boehler_45, Aelin_44, Flake_46, Inchworm_45, Bishoperium_44, Chah_46, Olive_45, SDcharge11_45, Oline_44, Tomlarah_45, Karn_44, Manad_44, Jiminy_44, Quisquillae_45, Mosaic_44, Podrick_45, Selr12_45, Larson_46, ThreeOh3D2_45, Windsor_44, Skippy_45, Squiggle_45, Lopsy_44, Coletti_45, Schadenfreude_44, CheetO_45, Duggie_44, Mutante_44, Crownjwl_45, BoogieWoogie_44, IsaacEli_45, Trypo_45, ProfessorX_45, Cornobble_44, LeeLot_45, Kikipoo_45, Doddsville_45, Thunderbird_44, Lego3393_44, Virgeve_44, Durga_45, LemonSlice_45, Squid_45, Antonia_44

- Track 19 : Bluephacebaby_44, Hamish_45, PhenghisKhan_44, JangoPhett_45, Eremos_45, Happabalu_45, AbsoluteMadLad_44, PhrankReynolds_43, Colbert_45, UAch1_45, Altwerkus_44, HogWash_45, Phipps_45, Jillium_44, Slatt_45, FugateOSU_44, Roliet_45, Phamished_45, Mag7_44, Lasso_45, KingVeVeVe_45, Tooj_45, Hartsy_45, FremontTroll_45, BlueHusk_45, Mesh1_45, Kahve_44, PhatLouie_45, Daka_46, Oosterbaan_45, YouGoGlencoco_45, Soto_45, Matalotodo_45, Placalicious_44, Zaider_46, Cosmolli16_44, BatteryCK_44, Caspiboi_44, FriarPreacher_44, JDog_44, Haimas_45, DirtJuice_45, Zelda_45, Buckeye_45, Thora_45, Orwigg_44, Hetaeria_45, Phleuron_44, Basato_46, Swiphy_45, Usavi_45, Pipsqueak_45, Melc17_45, Burr_44, Veritas_44, Mulan_44, MichaelPhcott_44, Prickles_45, Iridoclysis_45, Riggan_45, Magic8_45, Weher20_45, Chunky_45, Gwilliam_45, SilverBell_45, OliverWalter_45, Waterdiva_45, Nicole21_45, JakeO_44, Suffolk_45, Kailash_45, Phergie_44, Schueller_44, Dingo_45, AngelCake_45, Dati_45, Vista_45, Etaye_45, Sophia_44, Surely_45, Virapocalypse_45, Chipette_46, Hertubise_45

- Track 20 : Plmatters_45, Kloppinator_45, UncleHowie_45, Eugenia_45, Pops_45

- Track 21 : Imvubu_36

- Track 22 : Indlovu_42

- Track 23 : LilMcDreamy_41

- Track 24 : BirdsNest_46

- Track 25 : Hashim76_46, Zenteno07_48

- Track 26 : LittleMinkey_49

- Track 27 : Tinciduntolum_45, Hedgerow_44, Brownie5_44, Rhinoforte_44, LilSmirk_44, Boyle_44, Eaglehorse_44, Ares_44, Lars_44, FrenchFry_44, Bananafish_44, Blocker23_44, Tres_44, Holeinone_44, Sabella_43, PrinceCharming_44, TA17A_45, 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, Kolhan_44, Godines_44, Laurie_43, Opia_44

- Track 28 : Arbiter_43, Qyrzula_41, Rosebush_43

- Track 29 : Vic9_00043

- Track 30 : Nozo_43, Yahalom_43, Daisy_43, Rita1961_43, Obutu_43, Gervas_43, Philly_42, Marlia_43, Corofin_43, Heathcliff_43, Neos5_43, Olivio_42, Morty007_43, Chalmers_43, Chandler_43, Mortcellus_42, Abinghost_43, Gadget_44, Devonte_43, Deenasa_43, Casbah_42, OrangeOswald_43, Shenandoah_43, Compostia_44, LestyG_43, TinyTerror_43, Mulaychimus_43, SynergyX_43, Baloo_43, MmasiCarm_43, SwainyDoc_43, Kamiyu_43, Bernardo_44, Athena_44, Jackstina_40, Phlyer_43, Yinz_43, ChaChing_43, Ben11_42, Halfpint_42, Briakila_44, Pipefish_45, Phayeta_44, Phaedrus_41, Glubnar_44, HarveySr_43, Kronus_42, RomaT_43, Chentzyk_43, Akoma_43, Marley1013_43, GlenHope_44, Tydolla_43, RagingRooster_43, SlippinJimmy_43, Audrey_43
- Track 31 : Prince_40, Zemanar_41, JaguarMi_40, Fortunato_41, Apex_41, Fanaw_39, Nigel_39, Heath_39, Hydro_40, JAMaL_40, VioletZ_41, BobbyK_41, QueenPie_39, JoyceMaria_40, Austelle_41, Waleliano_40, Mudslide_40, Lolalove_40, BrownCNA_42, Mithril_40, RawrgerThat_41, Xincheng_39, Hangman_40, Frederick_41, Magpie_39, Cooper_41
- Track 32 : GinPorsche_39, ChrisnMich_40, LittleDigger_39, Antihero_39, Renkei_39, Ahwei_39, Nanao_39, Hally898_39, Lambano_39, Epah_39, Poster_39
- Track 33 : Vincenzo_41, AlanGrant_42
- Track 34 : Stinger_39
- Track 35 : EastView9101_42, SirJeffery_44, Rita130_44, Acadian_44, Reccee_45, Donny_44, Suigeneris_44
- Track 36 : Mysterious_43, Reprobate_44, Nehemiah_43, Phelemich_43
- Track 37 : Bae_43, Rich_42
- Track 38 : Serendipitous_43
- Track 39 : Nangang_43, Shenyu_43, DigitDog_43
- Track 40 : KarasumaRum_45, StinkyVeggy_45
- Track 41 : KayaCho_37
- Track 42 : Hosp_035
- Track 43 : 39HC_037, 40BC_037
- Track 44 : ForDig_37, Jolie1_037
- Track 45 : Saguario_45
- Track 46 : Thonko_43
- Track 47 : CRB2_46
- Track 48 : Rinkes_44
- 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, Neobush_35, Manasvini_35, Suscepit_35, Zameen_35, Tayonia_35, Polly_32, Kita_36, Antonio_35, Trumpet_35
- Track 58 : Hugley_32
- Track 59 : Haley23_30, Clap_30, Sahara_29, Mocha12_30, GemG_30, Sproutie_30, Ebert_31, Jalleen_30, Cynthia_30, TuertoX_30, Whiteclaw_30, Savage_30, Gizermo_30
- Track 60 : Vasanti_31
- Track 61 : RayTheFireFly_38
- Track 62 : Phistory_39, Apricot_38, BENtherdunthat_38, Frickyeah_39

- Track 63 : Horus_39, BearBQ_38, ShawBrad_38, Lutum_39, Asapag_39, Ecliptus_40, Whitney_42, Leroy_39, Phabuloso_36, ODay_42, Periwinkle_42, Budski_39, Getalong_40, Kenna_38, Holliday_38, CheeseTouch_37
- Track 64 : Spooky_39, Squiddly_40
- Track 65 : Crater_36
- Track 66 : TraderJ_40, Yeshua_40, Wooper_40
- Track 67 : Axumite_38, Shatter_38, Ligma_38, Fresco_38
- Track 68 : MossRose_40, MakoManhole_40, CaiB_40, AnarQue_40, FelixTres_40, Blackpen_40, CloverMinnie_40
- Track 69 : Mariokart_38, CharlottesWeb_38
- Track 70 : Coldpizza_41
- Track 71 : Sour_43
- Track 72 : BiggityBass_38
- Track 73 : NHagos_38, AksarBAT_38
- Track 74 : Evaa_38
- Track 75 : Yago84_38, Sisko_38, AnClar_39
- Track 76 : LittleMunchkin_40
- Track 77 : BobRoss2024_37
- Track 78 : Avani_28, ShroomBoi_22
- Track 79 : Demsculpinboyz_28, Bipolar_22, Che9d_28, Ogopogo_25, Kersh_23, Kenuha5_22, Pollywog_25, Yoshi_28
- Track 80 : ThetaBob_24, Madiba_23
- Track 81 : Sunshine23_32, Sonali_32
- Track 82 : Mufasa8_29
- Track 83 : Maruru_31
- Track 84 : Stuck_40
- Track 85 : Sbash_32
- Track 86 : Rubeelu_32, Butters_32
- Track 87 : Purky_30
- Track 88 : Purky_36
- Track 89 : Rem711_6
- Track 90 : 32HC_7
- Track 91 : Whack_33
- Track 92 : Sleepyhead_33
- Track 93 : Lukepolites_69
- Track 94 : Pine5_39
- Track 95 : 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 41, it was called in 301 of the 551 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, Aleia_45, AltPhacts_45, Altwerkus_44, Anderson_45, Andre_45, AngelCake_45, Antonia_44, Aonishiki_46, Apizium_44, Ashraf_44, Badfish_45, Bae_43, Banjo_44, Basato_46, BatteryCK_44, Beaglebox_44, Bishoperium_44, BlackStallion_45, BlacksBerry_44, BlueHusk_45, Bluephacebaby_44, Boehler_45, BoogieWoogie_44, Brilliant_45, Buckeye_45, Burr_44, CRB2_46, CamL_45,

CampRoach_45, Cannibal_45, Carthage_43, Caspiboi_44, Chaelin_45, Chah_46, Charles1_45, CharlieGBrown_44, CheetO_45, Cher_44, Childish_44, Chipette_46, Chorkpop_45, Chuni_44, Chunky_45, Chute_44, Cobra_45, Colbert_45, Coletti_45, Cornbread_44, Cornobble_44, Cosmolli16_44, Craff_45, Crownjwl_45, DaddyDaniels_45, Daffy_45, Daka_46, Dati_45, DelRivs_44, Derpp_44, Dice_44, DigitDog_43, Dingo_45, Dione_44, DirtJuice_45, Doddsville_45, DoesntMatter_44, DolOn_46, DonSanchon_44, Donny_44, DuchessDung_43, Duggie_44, Durga_45, EastView9101_42, ElvisPhasley_45, Emiris_45, EmpTee_45, Eremos_45, Etaye_45, Eugenia_45, Fang_45, Flake_46, FleetyMac_45, FluffyNinja_45, ForDig_37, Fozzie_44, Frankicide_45, FremontTroll_45, Freya_44, FriarPreacher_44, Fringe_45, FugateOSU_44, Funsized_46, Gareth_44, GeneCoco_45, Giraffe_45, Gophee_45, Grand2040_44, GreenChile_45, Gwennie1_45, Gwilliam_45, Gyarad_0045, HSavage_45, Haimas_45, Haleema_44, Hamish_45, Happabalu_45, Hartsy_45, Harvey_45, Held_45, HenryJackson_44, Hertubise_45, Hetaeria_45, HighStump_44, Hocus_44, HogWash_45, Horchata_45, Hosp_035, ImtiyazSitla_44, Imvubu_36, Inchworm_45, Indlovu_42, Inverness_45, Iridessa_45, Iridoclysis_45, IsaacEli_45, JDog_44, JacAttac_45, JakeO_44, JangoPhett_45, Jesabah_45, Jillium_44, Jiminy_44, Jiraiya_44, Jolie1_037, KLucky39_45, Kahve_44, Kailash_45, KarasumaRum_45, Karn_44, Katniss_45, KayaCho_37, Keitherie_45, Khan1_45, Kikipoo_45, Kimbrough_45, KingTut_36, KingVeVeVe_45, KlimbOn_45, Kloppinator_45, Knocker_45, Kwadwo_44, Kwksand96_44, Labeouficaum_44, Larson_46, LasagnaCat_45, Lasso_45, LeeLot_45, Lego3393_44, Legolas_44, Lehmann_45, 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, Mesmerelda_44, MichaelPhcott_44, Mikota_45, MiniBoss_45, MitKao_45, Morgushi_45, Morty_45, Mosaic_44, MrPhizzler_45, Mulan_44, Murdoc_45, Mutante_44, Mysterious_43, Nacho_0045, Nangang_43, Nathan_45, Nehemiah_43, Newman_45, Nicole21_45, Numberten_45, Nyala_44, OSmaximus_45, Olak_44, Oline_44, Olive_45, OliverWalter_45, Omniscient_45, Oosterbaan_45, Orfeu_44, Orion_45, Orwig_44, PG1_45, Pacifista_44, PallasAthena_45, 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, Plata_45, Plmatters_45, Podrick_45, Pops_45, Potter_44, Prickles_45, ProfessorX_45, Puhltonio_45, QueenBeane_45, Quesadilla_46, Quisquillae_45, Reccee_45, RedMaple_44, RedRaider89_46, Reprobate_44, Rich_42, Ricotta_44, Riggan_45, Rimu_45, Rita130_44, Riverton_44, Robyn_44, Roliet_45, Roscoe_46, Roy17_45, SDcharge11_45, Saguaro_45, SallyH_45, Samaymay_45, SassyCat97_44, Schadenfreude_44, Schueller_44, Scoot17C_45, Scrick_45, Selr12_45, Serendipitous_43, Serendipity_45, Serpentine_0045, ShadowBud_45, Sheila_45, Shenyu_43, ShiVal_45, Sigman_45, SilverBell_45, Simielle_44, SirBeauregard_45, 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_45, Swish_45, TallGrassMM_45, Telesworld_44, Thora_45, ThreeOh3D2_45, Thunderbird_44, Timmi_44, TomBombadil_45, Tomlarah_45, Toni_44, TooFast2Furius_47, Tooj_45, Triad_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, Zonia_45,

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

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

- 32HC_7, Abidatro_27, Abinghost_43, Ahwei_39, Akoma_43, AksarBAT_38, AlanGrant_42, AlexMinion_25, Allegro_44, Amelia_27, Amphitrite_26, AnClar_39, AnarQue_40, Andrew_28, Antihero_39, Antonio_35, Antrice_26, Apex_41, Apricot_38, Arbiter_43, Ares_44, Asapag_39, Athena_44, Atlantica_26, 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, BirdsNest_46, Blackpen_40, Blocker23_44, BobRoss2024_37, BobbyK_41, Bosnia_34, Boyle_44, Briakila_44, BrownCNA_42, Brownie5_44, Brynnie_25, Budski_39, Butters_32, CaiB_40, Calamitous_44, Camara_26, Casbah_42, Catfish_31, ChaChing_43, Chalmers_43, Chandler_43, CharlottesWeb_38, Che9d_28, CheeseTouch_37, Chentzyk_43, Chickaboom_25, ChrisnMich_40, Clap_30, CloverMinnie_40, Coffee_44, Coldpizza_41, Colusalem_27, Compostia_44, Cooper_41, Coral_26, Corofin_43, Cote_27, Crater_36, Cygnet_25, Cynthia_30, Daisy_43, DanHam62_26, Daob_27, Deenasa_43, Demsculpinboyz_28, Devonte_43, Eaglehorse_44, Ebert_31, Ecliptus_40, Epah_39, Eudoria_35, Evaa_38, Eviarto_34, Fanaw_39, Faze9_43, FelixTres_40, Fortunato_41, Frederick_41, FrenchFry_44, Fresco_38, Frickyeah_39, Gadjet_44, Galaxy_26, GemG_30, Gervas_43, Getalong_40, GinPorsche_39, Gizermo_30, Glass_44, GlenHope_44, Glotell_26, Glubnar_44, Godines_44, Haley23_30, Halfpint_42, Hally898_39, Hangman_40, HannahPhantana_27, HarveySr_43, Hashim76_46, Heath_39, Heathcliff_43, Hedgerow_44, Herod_34, Holeinone_44, Holliday_38, Horus_39, Hugley_32, Hydro_40, ItsyBitsy1_44, JAMaL_40, Jackstina_40, JaguarMi_40, Jalleen_30, Jamun_25, JoyceMaria_40, KHumphrey_26, Kaleb_44, Kamiyu_43, Kenna_38, Kenuha5_22, Kersh_23, Kheth_44, Kita_36, Kolhan_44, Kronus_42, Kuleana_27, Lambano_39, Lars_44, Laurie_43, Leona_25, Lephleur_44, Leroy_39, LestyG_43, Ligma_38, LilSmirk_44, LittleDigger_39, LittleMinkey_49, LittleMunchkin_40, LizLemon_44, Lolalove_40, LonelyBoi_35, Lukepolitites_69, Lunar_27, Lutum_39, Madiba_23, Magpie_39, MakoManhole_40, Manasvini_35, Maridalia_34, Mariokart_38, Marley1013_43, Marlia_43, Maruru_31, MasterPo_44, Melons_27, Mithril_40, MmasiCarm_43, Mocha12_30, Mortcellus_42, Morty007_43, MossRose_40, Mudslide_40, Mufasa8_29, Mulaychimus_43, NHagos_38, Nanao_39, Neobush_35, Neos5_43, Nigel_39, Nozo_43, Nymphadora_34, ODay_42, Obutu_43, Ogotogo_25, Olivio_42, Opia_44, OrangeOswald_43, Orcanus_26, OtsoOtso_26, Periwinkle_42, Phabuloso_36, Phaedrus_41, Phantasmagoria_44, Phayeta_44, Philly_42, Phistory_39, PhluffyCoco_26, Phlyer_43, Pine5_39, Pineda_28, Pipefish_45, Polka_26, Polly_32, Pollywog_25, Poster_39, PrinceCharming_44, Prince_40, Purky_30, Purky_36, QueenPie_39, Qyrzula_41, RagingRooster_43, RavenCo17_36, RawrgerThat_41, RayTheFireFly_38, RedFox_26, Rem711_6, Renkei_39, Rhinoforte_44, Rinkes_44, Rita1961_43, RomaT_43, Rosebush_43, Rubeelu_32, Sabella_43, Sahara_29, Savage_30, Sbash_32, Shambre1_30, Shatter_38, ShawBrad_38, Shenandoah_43, ShroomBoi_22, Sicarius2_74, Sisko_38, Sleepyhead_33, SlippinJimmy_43, Sonali_32, Sour_43, Spooky_39, Sproutie_30, Squiddly_40, Stinger_39, Stuck_40, Sunshine23_32, Suscepit_35, SwainyDoc_43, SynergyX_43, TA17A_45, TaylorSipt_26, Tayonia_35, ThetaBob_24, Thonko_43, TimTam_34, Tinciduntolum_45, TinyTerror_43, Toad24_27, TraderJ_40, Tres_44, Trumpet_35, TuertoX_30, Tydolla_43, Vasanti_31, Vic9_00043, Vincenzo_41, VioletZ_41, Vulpecula_25, Waleliano_40, West99_44,

Whack_33, Whiteclaw_30, Whitney_42, Wooper_40, Wyborn_73, Xincheng_39, Yago84_38, Yahalom_43, Yeshua_40, Yinz_43, Yoshi_28, Zameen_35, Zemanar_41, Zenteno07_48,

Summary by start number:

Start 30:

- Found in 2 of 637 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 551
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sicarius2_74 (AO2), Wyborn_73 (AO2),

Start 31:

- Found in 6 of 637 (0.9%) of genes in pham
- Manual Annotations of this start: 5 of 551
- 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 34:

- Found in 6 of 637 (0.9%) of genes in pham
- Manual Annotations of this start: 5 of 551
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnClar_39 (DR), BiggityBass_38 (DR), BobRoss2024_37 (DR), LittleMunchkin_40 (DR), Sisko_38 (DR), Yago84_38 (DR),

Start 36:

- Found in 70 of 637 (11.0%) of genes in pham
- Manual Annotations of this start: 59 of 551
- Called 98.6% of time when present
- Phage (with cluster) where this start called: Abinghost_43 (B3), Akoma_43 (B3), AksarBAT_38 (DR), AnarQue_40 (DR), Athena_44 (B3), Audrey_43 (B3), Baloo_43 (B3), Ben11_42 (B3), Bernardo_44 (B3), Blackpen_40 (DR), Briakila_44 (B3), CaiB_40 (DR), Casbah_42 (B3), ChaChing_43 (B3), Chalmers_43 (B3), Chandler_43 (B3), Chentzyk_43 (B3), CloverMinnie_40 (DR), Compostia_44 (B3), Corofin_43 (B3), Daisy_43 (B3), Deenasa_43 (B3), Devonte_43 (B3), FelixTres_40 (DR), Gadjet_44 (B3), Gervas_43 (B3), GlenHope_44 (B3), Glubnar_44 (B3), Halfpint_42 (B3), HarveySr_43 (B3), Heathcliff_43 (B3), Jackstina_40 (B3), Kamiyu_43 (B3), Kronus_42 (B3), LestyG_43 (B3), MakoManhole_40 (DR), Marley1013_43 (B3), Marlia_43 (B3), MmasiCarm_43 (B3), Mortcellus_42 (B3), Morty007_43 (B3), MossRose_40 (DR), Mulaychimus_43 (B3), NHagos_38 (DR), Neos5_43 (B3), Nozo_43 (B3), Obutu_43 (B3), Olivio_42 (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), Shenandoah_43 (B3), SlippinJimmy_43 (B3), Sour_43 (DR), SwainyDoc_43 (B3), SynergyX_43 (B3), TinyTerror_43 (B3), TraderJ_40 (DR), Tydolla_43 (B3), Wooper_40 (DR), Yahalom_43 (B3), Yeshua_40 (DR), Yinz_43 (B3),

Start 38:

- Found in 13 of 637 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 551
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Purky_36 (P6),

Start 40:

- Found in 3 of 637 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 551
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coldpizza_41 (DR), Evaa_38 (DR), Thonko_43 (B8),

Start 41:

- Found in 344 of 637 (54.0%) of genes in pham
- Manual Annotations of this start: 301 of 551
- Called 100.0% 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), Aleia_45 (B1), AltPhacts_45 (B1), Altwerkus_44 (B1), Anderson_45 (B1), Andre_45 (B1), AngelCake_45 (B1), Antonia_44 (B1), Aonishiki_46 (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), Bishoperium_44 (B1), BlackStallion_45 (B1), BlacksBerry_44 (B1), BlueHusk_45 (B1), Bluephacebaby_44 (B1), Boehler_45 (B1), BoogieWoogie_44 (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), Caspiboi_44 (B1), Chaelin_45 (B1), Chah_46 (B1), Charles1_45 (B1), CharlieGBrown_44 (B1), CheetO_45 (B1), Cher_44 (B1), Childish_44 (B1), Chipette_46 (B1), Chorkpop_45 (B1), Chuni_44 (B1), Chunky_45 (B1), Chute_44 (B1), Cobra_45 (B1), Colbert_45 (B1), Coletti_45 (B1), Cornbread_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), Dice_44 (B1), DigitDog_43 (B5), Dingo_45 (B1), Dione_44 (B1), DirtJuice_45 (B1), Doddsville_45 (B1), DoesntMatter_44 (B1), DolOn_46 (B1), DonSanchon_44 (B1), Donny_44 (B5), DuchessDung_43 (B1), Duggie_44 (B1), Durga_45 (B1), EastView9101_42 (B5), ElvisPhasley_45 (B1), Emiris_45 (B1), EmpTee_45 (B1), Eremos_45 (B1), Etaye_45 (B1), Eugenia_45 (B1), Fang_45 (B1), Flake_46 (B1), FleetyMac_45 (B1), FluffyNinja_45 (B1), ForDig_37 (B6), Fozzie_44 (B1), Frankicide_45 (B1), FremontTroll_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), GreenChile_45 (B1), Gwennie1_45 (B1), Gwilliam_45 (B1), Gyarad_0045 (B1), HSavage_45 (B1), Haimas_45 (B1), Haleema_44 (B1), Hamish_45 (B1), Happabalu_45 (B1), Hartsy_45 (B1), Harvey_45 (B1), Held_45 (B1), HenryJackson_44 (B1), Hertubise_45 (B1), Hetaeria_45 (B1), HighStump_44 (B1), Hocus_44 (B1), HogWash_45 (B1), Horchata_45 (B1), Hosp_035 (B6), ImtiyazSitla_44 (B1), Imvubu_36 (B10), Inchworm_45 (B1), Indlovu_42 (B11), Inverness_45 (B1), Iridessa_45 (B1), Iridoclysis_45 (B1), IsaacEli_45 (B1), JDog_44 (B1), JacAttac_45 (B1), JakeO_44 (B1), JangoPhett_45 (B1), Jesabah_45 (B1), Jillium_44 (B1), Jiminy_44 (B1), Jiraiya_44 (B1), Jolie1_037 (B6), KLucky39_45 (B1), Kahve_44 (B1), Kailash_45 (B1), KarasumaRum_45 (B5), Karn_44 (B1), Katniss_45 (B1), KayaCho_37 (B6), Keitherie_45 (B1), Khan1_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), Larson_46 (B1), LasagnaCat_45 (B1), Lasso_45 (B1), LeeLot_45 (B1), Lego3393_44 (B1), Legolas_44 (B1), Lehmann_45 (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), Mesmerelda_44 (B1), MichaelPhcott_44 (B1), Mikota_45 (B1), MiniBoss_45 (B1), MitKao_45 (B1), Morgushi_45 (B1), Morty_45 (B1), Mosaic_44 (B1), MrPhizzler_45 (B1), Mulan_44 (B1), Murdoc_45 (B1), Mutante_44 (B1), Mysterious_43 (B5), Nacho_0045 (B1), Nangang_43 (B5), Nathan_45 (B1), Nehemiah_43 (B5), Newman_45 (B1), Nicole21_45 (B1), Numberten_45 (B1), Nyala_44 (B1), OSmaximus_45 (B1), Olak_44 (B1), Oline_44 (B1), Olive_45 (B1), OliverWalter_45 (B1), Omniscient_45 (B1), Oosterbaan_45 (B1), Orfeu_44 (B1), Orion_45 (B1), Orwigg_44 (B1), PG1_45 (B1), Pacifista_44 (B1), PallasAthena_45 (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), Plata_45 (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), Quisquillae_45 (B1), Reccee_45 (B5), RedMaple_44 (B1), RedRaider89_46 (B1), Reprobate_44 (B5), Rich_42 (B5), Ricotta_44 (B1), Riggan_45 (B1), Rimu_45 (B1), Rita130_44 (B5), Riverton_44 (B1), Robyn_44 (B1), Roliet_45 (B1), Roscoe_46 (B1), Roy17_45 (B1), SDcharge11_45 (B1), Saguario_45 (B7), SallyH_45 (B1), Samaymay_45 (B1), SassyCat97_44 (B1), Schadenfreude_44 (B1), Schueller_44 (B1), Scoot17C_45 (B1), Scrick_45 (B1), Selr12_45 (B1), Serendipitous_43 (B5), Serendipity_45 (B1), Serpentine_0045 (B1), ShadowBud_45 (B1), Sheila_45 (B1), Shenyu_43 (B5), ShiVal_45 (B1), Sigman_45 (B1), SilverBell_45 (B1), Simielle_44 (B1), SirBeauregard_45 (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_45 (B1), Swish_45 (B1), TallGrassMM_45 (B1), Telesworld_44 (B1), Thora_45 (B1), ThreeOh3D2_45 (B1), Thunderbird_44 (B1), Timmi_44 (B1), TomBombadil_45 (B1), Tomlarah_45 (B1), Toni_44 (B1), TooFast2Furious_47 (B1), Tooj_45 (B1), Triad_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), Zonia_45 (B1),

Start 42:

- Found in 46 of 637 (7.2%) of genes in pham
- Manual Annotations of this start: 25 of 551
- Called 87.0% of time when present
- Phage (with cluster) where this start called: Ahwei_39 (B4), AlanGrant_42 (B4), Antihero_39 (B4), Apex_41 (B4), Austelle_41 (B4), BobbyK_41 (B4), BrownCNA_42 (B4), ChrisnMich_40 (B4), Cooper_41 (B4), Epah_39 (B4), Fanaw_39 (B4), Fortunato_41 (B4), Frederick_41 (B4), GinPorsche_39 (B4), Hally898_39 (B4), Hangman_40 (B4), Heath_39 (B4), Hydro_40 (B4), JAMaL_40 (B4), JaguarMi_40 (B4), JoyceMaria_40 (B4), Lambano_39 (B4), LittleDigger_39 (B4), Lolalove_40 (B4), Magpie_39 (B4), Mithril_40 (B4), Mudslide_40 (B4), Nanao_39 (B4), Nigel_39 (B4), Poster_39 (B4), Prince_40 (B4), QueenPie_39 (B4), RawrgerThat_41 (B4),

Renkei_39 (B4), Stinger_39 (B4), Vincenzo_41 (B4), VioletZ_41 (B4), Waleliano_40 (B4), Xincheng_39 (B4), Zemanar_41 (B4),

Start 43:

- Found in 5 of 637 (0.8%) of genes in pham
- Manual Annotations of this start: 3 of 551
- Called 80.0% of time when present
- Phage (with cluster) where this start called: BirdsNest_46 (B13), Hashim76_46 (B13), LittleMinkey_49 (B13), Zenteno07_48 (B13),

Start 45:

- Found in 42 of 637 (6.6%) of genes in pham
- Manual Annotations of this start: 34 of 551
- Called 85.7% 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), Kolhan_44 (B2), Lars_44 (B2), Laurie_43 (B2), Lephleur_44 (B2), LilSmirk_44 (B2), LizLemon_44 (B2), MasterPo_44 (B2), Opia_44 (B2), Phantasmagoria_44 (B2), PrinceCharming_44 (B2), Rhinoforte_44 (B2), Rinkes_44 (B9), Sabella_43 (B2), TA17A_45 (B2), Tinciduntolum_45 (B2), Tres_44 (B2), Vic9_00043 (B2), West99_44 (B2),

Start 46:

- Found in 15 of 637 (2.4%) of genes in pham
- Manual Annotations of this start: 13 of 551
- 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), Jalleen_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 48:

- Found in 2 of 637 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 551
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_7 (Z), Rem711_6 (Z),

Start 50:

- Found in 4 of 637 (0.6%) of genes in pham
- Manual Annotations of this start: 4 of 551
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brynnie_25 (AS1), Chickaboom_25 (AS1), Jamun_25 (AS1), Vulpecula_25 (AS1),

Start 51:

- Found in 46 of 637 (7.2%) of genes in pham
- Manual Annotations of this start: 36 of 551
- Called 80.4% 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 (CY5), 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), ShawBrad_38 (DN1), Sleepyhead_33 (singleton), Susceptit_35 (CZ1), Tayonia_35 (CZ1), TimTam_34 (CZ1), Trumpet_35 (CZ1), Whack_33 (singleton), Whitney_42 (DN1), Zameen_35 (CZ1),

Start 52:

- Found in 12 of 637 (1.9%) of genes in pham
- Manual Annotations of this start: 10 of 551
- 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 53:

- Found in 5 of 637 (0.8%) of genes in pham
- Manual Annotations of this start: 4 of 551
- 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), Stuck_40 (I2),

Start 54:

- Found in 1 of 637 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 551
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LonelyBoi_35 (CY7),

Start 56:

- Found in 13 of 637 (2.0%) of genes in pham
- Manual Annotations of this start: 2 of 551
- Called 15.4% of time when present
- Phage (with cluster) where this start called: Madiba_23 (F1), ThetaBob_24 (F4),

Start 57:

- Found in 9 of 637 (1.4%) of genes in pham
- Manual Annotations of this start: 8 of 551
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abidatro_27 (AS1), AlexMinion_25 (AS3), Antrice_26 (AS2), Basilisk_26 (AS1), Cygnet_25 (AS2), Galaxy_26 (AS1), Glotell_26 (AS3), Kuleana_27 (AS2), Leona_25 (AS3),

Start 58:

- Found in 4 of 637 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 551
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Maruru_31 (FG), Mufasa8_29 (FG), Sonali_32 (FG), Sunshine23_32 (FG),

Start 59:

- Found in 28 of 637 (4.4%) of genes in pham
- Manual Annotations of this start: 19 of 551
- Called 78.6% of time when present
- Phage (with cluster) where this start called: Amelia_27 (AS2), Amphitrite_26 (AS3), Andrew_28 (AS3), Atlantica_26 (AS3), Camara_26 (AS3), Colusalem_27 (AS2), Coral_26 (AS2), Cote_27 (AS2), DanHam62_26 (AS3), Daob_27 (AS2), HannahPhantana_27 (AS2), KHumphrey_26 (AS3), Lunar_27 (AS2), Melons_27 (AS2), Orcanus_26 (AS1), OtsoOtso_26 (AS2), PhluffyCoco_26 (AS3), Pineda_28 (AS2), Polka_26 (AS2), RedFox_26 (AS3), TaylorSipht_26 (AS1), Toad24_27 (AS1),

Start 60:

- Found in 389 of 637 (61.1%) of genes in pham
- Manual Annotations of this start: 3 of 551
- Called 1.0% of time when present
- Phage (with cluster) where this start called: Catfish_31 (CU5), Lukepolites_69 (singleton), Spooky_39 (DN2), Squiddly_40 (DN2),

Start 61:

- Found in 1 of 637 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 551
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shambre1_30 (singleton),

Start 62:

- Found in 53 of 637 (8.3%) of genes in pham
- Manual Annotations of this start: 3 of 551
- Called 5.7% of time when present
- Phage (with cluster) where this start called: Arbiter_43 (B2), Qyrzula_41 (B2), Rosebush_43 (B2),

Start 68:

- Found in 3 of 637 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 551
- Called 33.3% of time when present
- Phage (with cluster) where this start called: RayTheFireFly_38 (DB),

Start 69:

- Found in 120 of 637 (18.8%) of genes in pham
- Manual Annotations of this start: 4 of 551
- Called 5.0% 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),

Summary by clusters:

There are 38 clusters represented in this pham: FG, DN, singleton, CZ2, CZ1, DB, CZ8, B12, B13, B10, B11, P6, DR, CU5, I2, DN1, DN3, DN2, AS3, AS2, AS1, CY7, CY5, N, AO2, Z, F1, F2, F4, B4, B5, B6, B7, B1, B2, B3, B8, B9,

Info for manual annotations of cluster AO2:

- Start number 30 was manually annotated 2 times for cluster AO2.

Info for manual annotations of cluster AS1:

- Start number 50 was manually annotated 4 times for cluster AS1.
- Start number 57 was manually annotated 3 times for cluster AS1.
- Start number 59 was manually annotated 3 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 57 was manually annotated 3 times for cluster AS2.
- Start number 59 was manually annotated 10 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 57 was manually annotated 2 times for cluster AS3.
- Start number 59 was manually annotated 6 times for cluster AS3.

Info for manual annotations of cluster B1:

- Start number 41 was manually annotated 280 times for cluster B1.

Info for manual annotations of cluster B10:

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

Info for manual annotations of cluster B11:

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

Info for manual annotations of cluster B12:

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

Info for manual annotations of cluster B13:

- Start number 43 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 45 was manually annotated 33 times for cluster B2.
- Start number 62 was manually annotated 3 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 36 was manually annotated 50 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 42 was manually annotated 25 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 41 was manually annotated 10 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 41 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:

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

Info for manual annotations of cluster B8:

- Start number 40 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 41 was manually annotated 5 times for cluster B9.
- Start number 45 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster CU5:

- Start number 60 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CY5:

- Start number 51 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY7:

- Start number 54 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ1:

- Start number 51 was manually annotated 17 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 46 was manually annotated 13 times for cluster CZ2.

Info for manual annotations of cluster CZ8:

- Start number 51 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DB:

- Start number 68 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DN:

- Start number 51 was manually annotated 4 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 51 was manually annotated 11 times for cluster DN1.
- Start number 69 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 60 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 69 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DR:

- Start number 31 was manually annotated 5 times for cluster DR.
- Start number 34 was manually annotated 5 times for cluster DR.
- Start number 36 was manually annotated 9 times for cluster DR.
- Start number 40 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster F1:

- Start number 52 was manually annotated 6 times for cluster F1.
- Start number 56 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 52 was manually annotated 4 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 56 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster FG:

- Start number 58 was manually annotated 3 times for cluster FG.

Info for manual annotations of cluster I2:

- Start number 53 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:

- Start number 53 was manually annotated 2 times for cluster N.

Info for manual annotations of cluster P6:

- Start number 38 was manually annotated 1 time for cluster P6.
- Start number 53 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster Z:

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

Gene Information:

Gene: 32HC_7 Start: 3414, Stop: 3172, Start Num: 48

Candidate Starts for 32HC_7:

(Start: 43 @3423 has 3 MA's), (Start: 48 @3414 has 1 MA's), (67, 3384), (83, 3291), (87, 3273),

Gene: 39HC_037 Start: 36987, Stop: 36790, Start Num: 41

Candidate Starts for 39HC_037:

(Start: 41 @36987 has 301 MA's), (49, 36975), (Start: 69 @36948 has 4 MA's), (71, 36930), (82, 36897),

Gene: 40BC_037 Start: 36987, Stop: 36790, Start Num: 41

Candidate Starts for 40BC_037:

(Start: 41 @36987 has 301 MA's), (49, 36975), (Start: 69 @36948 has 4 MA's), (71, 36930), (82, 36897),

Gene: ABU_45 Start: 39190, Stop: 38975, Start Num: 41

Candidate Starts for ABU_45:

(17, 39292), (Start: 41 @39190 has 301 MA's), (Start: 60 @39160 has 3 MA's), (71, 39115),

Gene: Abidatro_27 Start: 19710, Stop: 19528, Start Num: 57

Candidate Starts for Abidatro_27:

(Start: 36 @19749 has 59 MA's), (Start: 57 @19710 has 8 MA's),

Gene: Abinghost_43 Start: 39027, Stop: 38791, Start Num: 36

Candidate Starts for Abinghost_43:

(Start: 36 @39027 has 59 MA's), (64, 38970), (78, 38904), (82, 38898),

Gene: AbsoluteMadLad_44 Start: 39199, Stop: 38984, Start Num: 41

Candidate Starts for AbsoluteMadLad_44:

(Start: 41 @39199 has 301 MA's), (Start: 60 @39169 has 3 MA's), (71, 39124),

Gene: Acadian_44 Start: 39648, Stop: 39439, Start Num: 41

Candidate Starts for Acadian_44:

(15, 39762), (17, 39756), (Start: 41 @39648 has 301 MA's), (Start: 60 @39633 has 3 MA's), (67, 39621), (71, 39588),

Gene: Adriana_45 Start: 39188, Stop: 38973, Start Num: 41
Candidate Starts for Adriana_45:
(17, 39290), (Start: 41 @39188 has 301 MA's), (Start: 60 @39158 has 3 MA's), (71, 39113),

Gene: Aelin_44 Start: 38754, Stop: 38539, Start Num: 41
Candidate Starts for Aelin_44:
(17, 38856), (Start: 41 @38754 has 301 MA's), (Start: 60 @38724 has 3 MA's), (71, 38679),

Gene: Ahwei_39 Start: 38171, Stop: 37965, Start Num: 42
Candidate Starts for Ahwei_39:
(Start: 42 @38171 has 25 MA's), (Start: 60 @38150 has 3 MA's), (Start: 69 @38123 has 4 MA's), (71, 38105), (76, 38087), (84, 38057), (86, 38051), (90, 38030),

Gene: Akoma_43 Start: 39031, Stop: 38795, Start Num: 36
Candidate Starts for Akoma_43:
(Start: 36 @39031 has 59 MA's), (64, 38974), (78, 38908), (82, 38902),

Gene: AksarBAT_38 Start: 33442, Stop: 33182, Start Num: 36
Candidate Starts for AksarBAT_38:
(22, 33475), (Start: 36 @33442 has 59 MA's), (Start: 60 @33400 has 3 MA's), (Start: 62 @33397 has 3 MA's), (73, 33346), (78, 33328), (86, 33301),

Gene: AlanGrant_42 Start: 39951, Stop: 39745, Start Num: 42
Candidate Starts for AlanGrant_42:
(Start: 42 @39951 has 25 MA's), (Start: 60 @39930 has 3 MA's), (64, 39924), (Start: 69 @39903 has 4 MA's), (71, 39885), (73, 39876), (76, 39867), (84, 39837), (85, 39834), (86, 39831),

Gene: Aleia_45 Start: 38768, Stop: 38553, Start Num: 41
Candidate Starts for Aleia_45:
(Start: 41 @38768 has 301 MA's), (Start: 60 @38738 has 3 MA's), (71, 38693), (82, 38660),

Gene: AlexMinion_25 Start: 18294, Stop: 18103, Start Num: 57
Candidate Starts for AlexMinion_25:
(9, 18519), (13, 18441), (16, 18429), (49, 18306), (Start: 57 @18294 has 8 MA's),

Gene: Allegro_44 Start: 39432, Stop: 39226, Start Num: 45
Candidate Starts for Allegro_44:
(Start: 45 @39432 has 34 MA's), (Start: 62 @39405 has 3 MA's), (64, 39402), (76, 39348), (85, 39315),

Gene: AltPhacts_45 Start: 39177, Stop: 38962, Start Num: 41
Candidate Starts for AltPhacts_45:
(17, 39279), (Start: 41 @39177 has 301 MA's), (Start: 60 @39147 has 3 MA's), (71, 39102),

Gene: Altwerkus_44 Start: 38878, Stop: 38663, Start Num: 41
Candidate Starts for Altwerkus_44:
(Start: 41 @38878 has 301 MA's), (Start: 60 @38848 has 3 MA's), (71, 38803),

Gene: Amelia_27 Start: 19057, Stop: 18836, Start Num: 59
Candidate Starts for Amelia_27:
(Start: 59 @19057 has 19 MA's),

Gene: Amphitrite_26 Start: 18730, Stop: 18515, Start Num: 59
Candidate Starts for Amphitrite_26:

(Start: 59 @18730 has 19 MA's),

Gene: AnClar_39 Start: 35606, Stop: 35379, Start Num: 34

Candidate Starts for AnClar_39:

(Start: 34 @35606 has 5 MA's), (79, 35489), (93, 35420),

Gene: AnarQue_40 Start: 34838, Stop: 34584, Start Num: 36

Candidate Starts for AnarQue_40:

(18, 34880), (Start: 36 @34838 has 59 MA's), (Start: 62 @34790 has 3 MA's), (73, 34739), (78, 34721), (86, 34694),

Gene: Anderson_45 Start: 39183, Stop: 38968, Start Num: 41

Candidate Starts for Anderson_45:

(17, 39285), (Start: 41 @39183 has 301 MA's), (Start: 60 @39153 has 3 MA's), (71, 39108),

Gene: Andre_45 Start: 39182, Stop: 38967, Start Num: 41

Candidate Starts for Andre_45:

(Start: 41 @39182 has 301 MA's), (Start: 60 @39152 has 3 MA's), (71, 39107), (82, 39074),

Gene: Andrew_28 Start: 19161, Stop: 18955, Start Num: 59

Candidate Starts for Andrew_28:

(Start: 59 @19161 has 19 MA's),

Gene: AngelCake_45 Start: 39202, Stop: 38987, Start Num: 41

Candidate Starts for AngelCake_45:

(Start: 41 @39202 has 301 MA's), (Start: 60 @39172 has 3 MA's), (71, 39127),

Gene: Antihero_39 Start: 38171, Stop: 37965, Start Num: 42

Candidate Starts for Antihero_39:

(Start: 42 @38171 has 25 MA's), (Start: 60 @38150 has 3 MA's), (Start: 69 @38123 has 4 MA's), (71, 38105), (76, 38087), (84, 38057), (86, 38051), (90, 38030),

Gene: Antonia_44 Start: 38754, Stop: 38539, Start Num: 41

Candidate Starts for Antonia_44:

(17, 38856), (Start: 41 @38754 has 301 MA's), (Start: 60 @38724 has 3 MA's), (71, 38679),

Gene: Antonio_35 Start: 29354, Stop: 29118, Start Num: 51

Candidate Starts for Antonio_35:

(Start: 51 @29354 has 36 MA's), (Start: 69 @29312 has 4 MA's), (72, 29291), (81, 29249), (89, 29201), (97, 29129),

Gene: Antrice_26 Start: 19359, Stop: 19168, Start Num: 57

Candidate Starts for Antrice_26:

(19, 19434), (20, 19431), (Start: 57 @19359 has 8 MA's),

Gene: Aonishiki_46 Start: 39226, Stop: 39011, Start Num: 41

Candidate Starts for Aonishiki_46:

(17, 39328), (Start: 41 @39226 has 301 MA's), (Start: 60 @39196 has 3 MA's), (71, 39151),

Gene: Apex_41 Start: 39377, Stop: 39171, Start Num: 42

Candidate Starts for Apex_41:

(Start: 42 @39377 has 25 MA's), (Start: 60 @39356 has 3 MA's), (Start: 69 @39329 has 4 MA's), (71, 39311), (76, 39293), (84, 39263), (86, 39257),

Gene: Apizium_44 Start: 38943, Stop: 38728, Start Num: 41

Candidate Starts for Apizium_44:

(Start: 41 @38943 has 301 MA's), (Start: 60 @38913 has 3 MA's), (71, 38868), (82, 38835),

Gene: Apricot_38 Start: 28904, Stop: 28710, Start Num: 69

Candidate Starts for Apricot_38:

(Start: 51 @28946 has 36 MA's), (Start: 69 @28904 has 4 MA's), (72, 28883), (81, 28841), (89, 28793),

Gene: Arbiter_43 Start: 39491, Stop: 39312, Start Num: 62

Candidate Starts for Arbiter_43:

(Start: 45 @39518 has 34 MA's), (Start: 62 @39491 has 3 MA's), (64, 39488), (76, 39434), (85, 39401),

Gene: Ares_44 Start: 39502, Stop: 39296, Start Num: 45

Candidate Starts for Ares_44:

(Start: 45 @39502 has 34 MA's), (Start: 62 @39475 has 3 MA's), (64, 39472), (76, 39418), (85, 39385),

Gene: Asapag_39 Start: 30538, Stop: 30302, Start Num: 51

Candidate Starts for Asapag_39:

(Start: 51 @30538 has 36 MA's), (Start: 69 @30496 has 4 MA's), (72, 30475), (81, 30433), (89, 30385),

Gene: Ashraf_44 Start: 38747, Stop: 38532, Start Num: 41

Candidate Starts for Ashraf_44:

(Start: 41 @38747 has 301 MA's), (Start: 60 @38717 has 3 MA's), (71, 38672), (82, 38639),

Gene: Athena_44 Start: 39778, Stop: 39542, Start Num: 36

Candidate Starts for Athena_44:

(Start: 36 @39778 has 59 MA's), (64, 39721), (78, 39655), (82, 39649),

Gene: Atlantica_26 Start: 18732, Stop: 18517, Start Num: 59

Candidate Starts for Atlantica_26:

(Start: 59 @18732 has 19 MA's),

Gene: Audrey_43 Start: 39027, Stop: 38791, Start Num: 36

Candidate Starts for Audrey_43:

(Start: 36 @39027 has 59 MA's), (64, 38970), (78, 38904), (82, 38898),

Gene: Austelle_41 Start: 39833, Stop: 39627, Start Num: 42

Candidate Starts for Austelle_41:

(Start: 42 @39833 has 25 MA's), (Start: 60 @39812 has 3 MA's), (Start: 69 @39785 has 4 MA's), (71, 39767), (76, 39749), (84, 39719), (86, 39713),

Gene: Avani_28 Start: 24082, Stop: 23903, Start Num: 52

Candidate Starts for Avani_28:

(Start: 38 @24106 has 1 MA's), (Start: 52 @24082 has 10 MA's), (Start: 56 @24076 has 2 MA's), (67, 24064), (Start: 69 @24049 has 4 MA's), (76, 24016), (93, 23920),

Gene: Axumite_38 Start: 32837, Stop: 32601, Start Num: 31

Candidate Starts for Axumite_38:

(29, 32840), (Start: 31 @32837 has 5 MA's), (39, 32816), (Start: 42 @32810 has 25 MA's), (Start: 59 @32786 has 19 MA's), (64, 32780), (85, 32690),

Gene: BENtherdunthat_38 Start: 28707, Stop: 28513, Start Num: 69

Candidate Starts for BENtherdunthat_38:

(Start: 51 @28749 has 36 MA's), (Start: 69 @28707 has 4 MA's), (72, 28686), (81, 28644), (89, 28596),

Gene: Badfish_45 Start: 39213, Stop: 38998, Start Num: 41

Candidate Starts for Badfish_45:

(17, 39315), (Start: 41 @39213 has 301 MA's), (Start: 60 @39183 has 3 MA's), (71, 39138),

Gene: Bae_43 Start: 39550, Stop: 39341, Start Num: 41

Candidate Starts for Bae_43:

(Start: 41 @39550 has 301 MA's), (Start: 60 @39535 has 3 MA's), (67, 39523), (71, 39490), (82, 39457),

Gene: Baloo_43 Start: 39030, Stop: 38794, Start Num: 36

Candidate Starts for Baloo_43:

(Start: 36 @39030 has 59 MA's), (64, 38973), (78, 38907), (82, 38901),

Gene: Bananafish_44 Start: 39438, Stop: 39232, Start Num: 45

Candidate Starts for Bananafish_44:

(Start: 45 @39438 has 34 MA's), (Start: 62 @39411 has 3 MA's), (64, 39408), (76, 39354), (85, 39321),

Gene: Banjo_44 Start: 38888, Stop: 38673, Start Num: 41

Candidate Starts for Banjo_44:

(Start: 41 @38888 has 301 MA's), (Start: 60 @38858 has 3 MA's), (71, 38813), (82, 38780),

Gene: Basato_46 Start: 39467, Stop: 39252, Start Num: 41

Candidate Starts for Basato_46:

(Start: 41 @39467 has 301 MA's), (Start: 60 @39437 has 3 MA's), (71, 39392),

Gene: Basilisk_26 Start: 20189, Stop: 19986, Start Num: 57

Candidate Starts for Basilisk_26:

(Start: 57 @20189 has 8 MA's),

Gene: BatStarr_34 Start: 29521, Stop: 29285, Start Num: 51

Candidate Starts for BatStarr_34:

(Start: 51 @29521 has 36 MA's), (Start: 69 @29479 has 4 MA's), (81, 29416), (89, 29368), (90, 29356),

Gene: BatteryCK_44 Start: 38807, Stop: 38592, Start Num: 41

Candidate Starts for BatteryCK_44:

(Start: 41 @38807 has 301 MA's), (Start: 60 @38777 has 3 MA's), (71, 38732),

Gene: Beaglebox_44 Start: 38909, Stop: 38694, Start Num: 41

Candidate Starts for Beaglebox_44:

(Start: 41 @38909 has 301 MA's), (Start: 60 @38879 has 3 MA's), (71, 38834), (82, 38801),

Gene: BearBQ_38 Start: 30173, Stop: 29937, Start Num: 51

Candidate Starts for BearBQ_38:

(Start: 51 @30173 has 36 MA's), (Start: 69 @30131 has 4 MA's), (72, 30110), (81, 30068), (89, 30020),

Gene: BeeGee_38 Start: 30304, Stop: 30068, Start Num: 51

Candidate Starts for BeeGee_38:

(Start: 51 @30304 has 36 MA's), (Start: 69 @30262 has 4 MA's), (72, 30241), (81, 30199), (89, 30151),

Gene: Ben11_42 Start: 38849, Stop: 38613, Start Num: 36

Candidate Starts for Ben11_42:
(Start: 36 @38849 has 59 MA's), (64, 38792), (78, 38726), (82, 38720),

Gene: Bernardo_44 Start: 39575, Stop: 39339, Start Num: 36
Candidate Starts for Bernardo_44:
(Start: 36 @39575 has 59 MA's), (64, 39518), (78, 39452), (82, 39446),

Gene: BiggityBass_38 Start: 35067, Stop: 34840, Start Num: 34
Candidate Starts for BiggityBass_38:
(28, 35082), (Start: 34 @35067 has 5 MA's), (79, 34950), (93, 34881),

Gene: Bipolar_22 Start: 24352, Stop: 24173, Start Num: 52
Candidate Starts for Bipolar_22:
(Start: 38 @24376 has 1 MA's), (Start: 52 @24352 has 10 MA's), (Start: 56 @24346 has 2 MA's),
(Start: 69 @24319 has 4 MA's), (76, 24286), (93, 24190),

Gene: BirdsNest_46 Start: 37877, Stop: 37662, Start Num: 43
Candidate Starts for BirdsNest_46:
(Start: 43 @37877 has 3 MA's), (Start: 60 @37853 has 3 MA's), (Start: 69 @37826 has 4 MA's), (73,
37799), (90, 37733), (94, 37703),

Gene: Bishoperium_44 Start: 38897, Stop: 38682, Start Num: 41
Candidate Starts for Bishoperium_44:
(17, 38999), (Start: 41 @38897 has 301 MA's), (Start: 60 @38867 has 3 MA's), (71, 38822),

Gene: BlackStallion_45 Start: 39199, Stop: 38984, Start Num: 41
Candidate Starts for BlackStallion_45:
(Start: 41 @39199 has 301 MA's), (Start: 60 @39169 has 3 MA's), (71, 39124), (82, 39091),

Gene: Blackpen_40 Start: 34256, Stop: 34002, Start Num: 36
Candidate Starts for Blackpen_40:
(18, 34298), (Start: 36 @34256 has 59 MA's), (Start: 62 @34208 has 3 MA's), (73, 34157), (78, 34139),
(86, 34112),

Gene: BlacksBerry_44 Start: 38915, Stop: 38700, Start Num: 41
Candidate Starts for BlacksBerry_44:
(17, 39017), (Start: 41 @38915 has 301 MA's), (Start: 60 @38885 has 3 MA's), (71, 38840),

Gene: Blocker23_44 Start: 39556, Stop: 39350, Start Num: 45
Candidate Starts for Blocker23_44:
(Start: 45 @39556 has 34 MA's), (Start: 62 @39529 has 3 MA's), (64, 39526), (76, 39472), (85, 39439),

Gene: BlueHusk_45 Start: 38696, Stop: 38481, Start Num: 41
Candidate Starts for BlueHusk_45:
(Start: 41 @38696 has 301 MA's), (Start: 60 @38666 has 3 MA's), (71, 38621),

Gene: Bluephacebaby_44 Start: 38894, Stop: 38679, Start Num: 41
Candidate Starts for Bluephacebaby_44:
(Start: 41 @38894 has 301 MA's), (Start: 60 @38864 has 3 MA's), (71, 38819),

Gene: BobRoss2024_37 Start: 32952, Stop: 32707, Start Num: 34
Candidate Starts for BobRoss2024_37:

(18, 32994), (22, 32985), (Start: 34 @32952 has 5 MA's), (49, 32919), (55, 32910), (Start: 60 @32901 has 3 MA's), (73, 32847), (92, 32763),

Gene: BobbyK_41 Start: 39202, Stop: 38996, Start Num: 42

Candidate Starts for BobbyK_41:

(Start: 42 @39202 has 25 MA's), (Start: 60 @39181 has 3 MA's), (Start: 69 @39154 has 4 MA's), (71, 39136), (76, 39118), (84, 39088), (86, 39082),

Gene: Boehler_45 Start: 39200, Stop: 38985, Start Num: 41

Candidate Starts for Boehler_45:

(17, 39302), (Start: 41 @39200 has 301 MA's), (Start: 60 @39170 has 3 MA's), (71, 39125),

Gene: BoogieWoogie_44 Start: 38881, Stop: 38666, Start Num: 41

Candidate Starts for BoogieWoogie_44:

(17, 38983), (Start: 41 @38881 has 301 MA's), (Start: 60 @38851 has 3 MA's), (71, 38806),

Gene: Bosnia_34 Start: 29521, Stop: 29285, Start Num: 51

Candidate Starts for Bosnia_34:

(Start: 51 @29521 has 36 MA's), (Start: 69 @29479 has 4 MA's), (81, 29416), (89, 29368), (90, 29356),

Gene: Boyle_44 Start: 39557, Stop: 39351, Start Num: 45

Candidate Starts for Boyle_44:

(Start: 45 @39557 has 34 MA's), (Start: 62 @39530 has 3 MA's), (64, 39527), (76, 39473), (85, 39440),

Gene: Briakila_44 Start: 39797, Stop: 39561, Start Num: 36

Candidate Starts for Briakila_44:

(Start: 36 @39797 has 59 MA's), (64, 39740), (78, 39674), (82, 39668),

Gene: Brilliant_45 Start: 38905, Stop: 38690, Start Num: 41

Candidate Starts for Brilliant_45:

(Start: 41 @38905 has 301 MA's), (Start: 60 @38875 has 3 MA's), (71, 38830), (82, 38797),

Gene: BrownCNA_42 Start: 39463, Stop: 39257, Start Num: 42

Candidate Starts for BrownCNA_42:

(Start: 42 @39463 has 25 MA's), (Start: 60 @39442 has 3 MA's), (Start: 69 @39415 has 4 MA's), (71, 39397), (76, 39379), (84, 39349), (86, 39343),

Gene: Brownie5_44 Start: 39563, Stop: 39357, Start Num: 45

Candidate Starts for Brownie5_44:

(Start: 45 @39563 has 34 MA's), (Start: 62 @39536 has 3 MA's), (64, 39533), (76, 39479), (85, 39446),

Gene: Brynnie_25 Start: 19788, Stop: 19591, Start Num: 50

Candidate Starts for Brynnie_25:

(Start: 50 @19788 has 4 MA's),

Gene: Buckeye_45 Start: 39217, Stop: 39002, Start Num: 41

Candidate Starts for Buckeye_45:

(Start: 41 @39217 has 301 MA's), (Start: 60 @39187 has 3 MA's), (71, 39142),

Gene: Budski_39 Start: 30500, Stop: 30264, Start Num: 51

Candidate Starts for Budski_39:

(Start: 51 @30500 has 36 MA's), (Start: 69 @30458 has 4 MA's), (72, 30437), (81, 30395), (89, 30347),

Gene: Burr_44 Start: 38894, Stop: 38679, Start Num: 41

Candidate Starts for Burr_44:

(Start: 41 @38894 has 301 MA's), (Start: 60 @38864 has 3 MA's), (71, 38819),

Gene: Butters_32 Start: 26751, Stop: 26518, Start Num: 53

Candidate Starts for Butters_32:

(23, 26826), (25, 26823), (26, 26817), (47, 26760), (Start: 53 @26751 has 4 MA's), (67, 26727), (75, 26679), (89, 26601), (97, 26529),

Gene: CRB2_46 Start: 41727, Stop: 41521, Start Num: 41

Candidate Starts for CRB2_46:

(Start: 41 @41727 has 301 MA's), (Start: 60 @41706 has 3 MA's), (71, 41661), (73, 41652), (86, 41607), (94, 41556),

Gene: CaiB_40 Start: 34824, Stop: 34570, Start Num: 36

Candidate Starts for CaiB_40:

(18, 34866), (Start: 36 @34824 has 59 MA's), (Start: 62 @34776 has 3 MA's), (73, 34725), (78, 34707), (86, 34680),

Gene: Calamitous_44 Start: 39443, Stop: 39237, Start Num: 45

Candidate Starts for Calamitous_44:

(Start: 45 @39443 has 34 MA's), (Start: 62 @39416 has 3 MA's), (64, 39413), (76, 39359), (85, 39326),

Gene: CamL_45 Start: 39195, Stop: 38980, Start Num: 41

Candidate Starts for CamL_45:

(Start: 41 @39195 has 301 MA's), (Start: 60 @39165 has 3 MA's), (71, 39120), (82, 39087),

Gene: Camara_26 Start: 18733, Stop: 18518, Start Num: 59

Candidate Starts for Camara_26:

(Start: 59 @18733 has 19 MA's),

Gene: CampRoach_45 Start: 39185, Stop: 38970, Start Num: 41

Candidate Starts for CampRoach_45:

(17, 39287), (Start: 41 @39185 has 301 MA's), (Start: 60 @39155 has 3 MA's), (71, 39110),

Gene: Cannibal_45 Start: 39178, Stop: 38963, Start Num: 41

Candidate Starts for Cannibal_45:

(Start: 41 @39178 has 301 MA's), (Start: 60 @39148 has 3 MA's), (71, 39103), (82, 39070),

Gene: Carthage_43 Start: 38107, Stop: 37892, Start Num: 41

Candidate Starts for Carthage_43:

(Start: 41 @38107 has 301 MA's), (Start: 60 @38077 has 3 MA's), (71, 38032), (82, 37999),

Gene: Casbah_42 Start: 38879, Stop: 38643, Start Num: 36

Candidate Starts for Casbah_42:

(Start: 36 @38879 has 59 MA's), (64, 38822), (78, 38756), (82, 38750),

Gene: Caspiboi_44 Start: 38904, Stop: 38689, Start Num: 41

Candidate Starts for Caspiboi_44:

(Start: 41 @38904 has 301 MA's), (Start: 60 @38874 has 3 MA's), (71, 38829),

Gene: Catfish_31 Start: 25984, Stop: 25784, Start Num: 60

Candidate Starts for Catfish_31:

(7, 26254), (32, 26041), (Start: 60 @25984 has 3 MA's), (67, 25972), (82, 25897),

Gene: ChaChing_43 Start: 39042, Stop: 38806, Start Num: 36

Candidate Starts for ChaChing_43:

(Start: 36 @39042 has 59 MA's), (64, 38985), (78, 38919), (82, 38913),

Gene: Chaelin_45 Start: 38892, Stop: 38677, Start Num: 41

Candidate Starts for Chaelin_45:

(17, 38994), (Start: 41 @38892 has 301 MA's), (Start: 60 @38862 has 3 MA's), (71, 38817),

Gene: Chah_46 Start: 39212, Stop: 38997, Start Num: 41

Candidate Starts for Chah_46:

(17, 39314), (Start: 41 @39212 has 301 MA's), (Start: 60 @39182 has 3 MA's), (71, 39137),

Gene: Chalmers_43 Start: 39834, Stop: 39598, Start Num: 36

Candidate Starts for Chalmers_43:

(Start: 36 @39834 has 59 MA's), (64, 39777), (78, 39711), (82, 39705),

Gene: Chandler_43 Start: 39810, Stop: 39574, Start Num: 36

Candidate Starts for Chandler_43:

(Start: 36 @39810 has 59 MA's), (64, 39753), (78, 39687), (82, 39681),

Gene: Charles1_45 Start: 39180, Stop: 38965, Start Num: 41

Candidate Starts for Charles1_45:

(17, 39282), (Start: 41 @39180 has 301 MA's), (Start: 60 @39150 has 3 MA's), (71, 39105),

Gene: CharlieGBrown_44 Start: 38770, Stop: 38555, Start Num: 41

Candidate Starts for CharlieGBrown_44:

(17, 38872), (Start: 41 @38770 has 301 MA's), (Start: 60 @38740 has 3 MA's), (71, 38695),

Gene: CharlottesWeb_38 Start: 32763, Stop: 32527, Start Num: 31

Candidate Starts for CharlottesWeb_38:

(27, 32778), (29, 32766), (Start: 31 @32763 has 5 MA's), (Start: 59 @32712 has 19 MA's), (64, 32706), (85, 32616),

Gene: Che9d_28 Start: 24090, Stop: 23911, Start Num: 52

Candidate Starts for Che9d_28:

(Start: 38 @24114 has 1 MA's), (Start: 52 @24090 has 10 MA's), (Start: 56 @24084 has 2 MA's), (Start: 69 @24057 has 4 MA's), (76, 24024), (93, 23928),

Gene: CheeseTouch_37 Start: 27100, Stop: 26864, Start Num: 51

Candidate Starts for CheeseTouch_37:

(Start: 51 @27100 has 36 MA's), (Start: 69 @27058 has 4 MA's), (72, 27037), (81, 26995), (89, 26947),

Gene: CheetO_45 Start: 39194, Stop: 38979, Start Num: 41

Candidate Starts for CheetO_45:

(17, 39296), (Start: 41 @39194 has 301 MA's), (Start: 60 @39164 has 3 MA's), (71, 39119),

Gene: Chentzyk_43 Start: 39391, Stop: 39155, Start Num: 36

Candidate Starts for Chentzyk_43:

(Start: 36 @39391 has 59 MA's), (64, 39334), (78, 39268), (82, 39262),

Gene: Cher_44 Start: 38917, Stop: 38702, Start Num: 41

Candidate Starts for Cher_44:

(Start: 41 @38917 has 301 MA's), (Start: 60 @38887 has 3 MA's), (71, 38842), (82, 38809),

Gene: Chickaboom_25 Start: 18878, Stop: 18663, Start Num: 50

Candidate Starts for Chickaboom_25:

(Start: 50 @18878 has 4 MA's),

Gene: Childish_44 Start: 38920, Stop: 38705, Start Num: 41

Candidate Starts for Childish_44:

(Start: 41 @38920 has 301 MA's), (Start: 60 @38890 has 3 MA's), (71, 38845), (82, 38812),

Gene: Chipette_46 Start: 39410, Stop: 39195, Start Num: 41

Candidate Starts for Chipette_46:

(Start: 41 @39410 has 301 MA's), (Start: 60 @39380 has 3 MA's), (71, 39335),

Gene: Chorkpop_45 Start: 38916, Stop: 38701, Start Num: 41

Candidate Starts for Chorkpop_45:

(17, 39018), (Start: 41 @38916 has 301 MA's), (Start: 60 @38886 has 3 MA's), (71, 38841),

Gene: ChrisnMich_40 Start: 38163, Stop: 37957, Start Num: 42

Candidate Starts for ChrisnMich_40:

(Start: 42 @38163 has 25 MA's), (Start: 60 @38142 has 3 MA's), (Start: 69 @38115 has 4 MA's), (71, 38097), (76, 38079), (84, 38049), (86, 38043), (90, 38022),

Gene: Chuni_44 Start: 39211, Stop: 38996, Start Num: 41

Candidate Starts for Chuni_44:

(17, 39313), (Start: 41 @39211 has 301 MA's), (Start: 60 @39181 has 3 MA's), (71, 39136),

Gene: Chunky_45 Start: 39203, Stop: 38988, Start Num: 41

Candidate Starts for Chunky_45:

(Start: 41 @39203 has 301 MA's), (Start: 60 @39173 has 3 MA's), (71, 39128),

Gene: Chute_44 Start: 39241, Stop: 39026, Start Num: 41

Candidate Starts for Chute_44:

(17, 39343), (Start: 41 @39241 has 301 MA's), (Start: 60 @39211 has 3 MA's), (71, 39166),

Gene: Clap_30 Start: 25663, Stop: 25463, Start Num: 46

Candidate Starts for Clap_30:

(Start: 46 @25663 has 13 MA's), (67, 25642), (Start: 69 @25627 has 4 MA's), (70, 25615), (82, 25579),

Gene: CloverMinnie_40 Start: 34764, Stop: 34510, Start Num: 36

Candidate Starts for CloverMinnie_40:

(18, 34806), (Start: 36 @34764 has 59 MA's), (Start: 62 @34716 has 3 MA's), (73, 34665), (78, 34647), (86, 34620),

Gene: Cobra_45 Start: 39201, Stop: 38986, Start Num: 41

Candidate Starts for Cobra_45:

(Start: 41 @39201 has 301 MA's), (Start: 60 @39171 has 3 MA's), (71, 39126), (82, 39093),

Gene: Coffee_44 Start: 39546, Stop: 39340, Start Num: 45

Candidate Starts for Coffee_44:

(Start: 45 @39546 has 34 MA's), (Start: 62 @39519 has 3 MA's), (64, 39516), (76, 39462), (85, 39429),

Gene: Colbert_45 Start: 39256, Stop: 39041, Start Num: 41
Candidate Starts for Colbert_45:
(Start: 41 @39256 has 301 MA's), (Start: 60 @39226 has 3 MA's), (71, 39181),

Gene: Coldpizza_41 Start: 37616, Stop: 37404, Start Num: 40
Candidate Starts for Coldpizza_41:
(33, 37640), (35, 37634), (Start: 40 @37616 has 3 MA's), (70, 37550), (73, 37535), (78, 37517), (84, 37496), (93, 37445),

Gene: Coletti_45 Start: 39241, Stop: 39026, Start Num: 41
Candidate Starts for Coletti_45:
(17, 39343), (Start: 41 @39241 has 301 MA's), (Start: 60 @39211 has 3 MA's), (71, 39166),

Gene: Colusalem_27 Start: 19035, Stop: 18814, Start Num: 59
Candidate Starts for Colusalem_27:
(Start: 59 @19035 has 19 MA's),

Gene: Compostia_44 Start: 39458, Stop: 39222, Start Num: 36
Candidate Starts for Compostia_44:
(Start: 36 @39458 has 59 MA's), (64, 39401), (78, 39335), (82, 39329),

Gene: Cooper_41 Start: 38382, Stop: 38176, Start Num: 42
Candidate Starts for Cooper_41:
(Start: 42 @38382 has 25 MA's), (Start: 60 @38361 has 3 MA's), (Start: 69 @38334 has 4 MA's), (71, 38316), (76, 38298), (84, 38268), (86, 38262),

Gene: Coral_26 Start: 18896, Stop: 18675, Start Num: 59
Candidate Starts for Coral_26:
(Start: 59 @18896 has 19 MA's),

Gene: Cornbread_44 Start: 38917, Stop: 38702, Start Num: 41
Candidate Starts for Cornbread_44:
(Start: 41 @38917 has 301 MA's), (Start: 60 @38887 has 3 MA's), (71, 38842), (82, 38809),

Gene: Cornobble_44 Start: 38755, Stop: 38540, Start Num: 41
Candidate Starts for Cornobble_44:
(17, 38857), (Start: 41 @38755 has 301 MA's), (Start: 60 @38725 has 3 MA's), (71, 38680),

Gene: Corofin_43 Start: 39053, Stop: 38817, Start Num: 36
Candidate Starts for Corofin_43:
(Start: 36 @39053 has 59 MA's), (64, 38996), (78, 38930), (82, 38924),

Gene: Cosmolli16_44 Start: 38905, Stop: 38690, Start Num: 41
Candidate Starts for Cosmolli16_44:
(Start: 41 @38905 has 301 MA's), (Start: 60 @38875 has 3 MA's), (71, 38830),

Gene: Cote_27 Start: 19041, Stop: 18820, Start Num: 59
Candidate Starts for Cote_27:
(Start: 59 @19041 has 19 MA's),

Gene: Craff_45 Start: 39198, Stop: 38983, Start Num: 41
Candidate Starts for Craff_45:
(17, 39300), (Start: 41 @39198 has 301 MA's), (Start: 60 @39168 has 3 MA's), (71, 39123),

Gene: Crater_36 Start: 28423, Stop: 28229, Start Num: 69

Candidate Starts for Crater_36:

(Start: 51 @28465 has 36 MA's), (Start: 69 @28423 has 4 MA's), (71, 28405), (72, 28402), (81, 28360), (89, 28312), (90, 28300), (97, 28240),

Gene: Crownjwl_45 Start: 38971, Stop: 38756, Start Num: 41

Candidate Starts for Crownjwl_45:

(17, 39073), (Start: 41 @38971 has 301 MA's), (Start: 60 @38941 has 3 MA's), (71, 38896),

Gene: Cygnet_25 Start: 19348, Stop: 19154, Start Num: 57

Candidate Starts for Cygnet_25:

(19, 19423), (20, 19420), (Start: 57 @19348 has 8 MA's),

Gene: Cynthia_30 Start: 25663, Stop: 25463, Start Num: 46

Candidate Starts for Cynthia_30:

(Start: 46 @25663 has 13 MA's), (67, 25642), (Start: 69 @25627 has 4 MA's), (70, 25615), (82, 25579),

Gene: DaddyDaniels_45 Start: 38889, Stop: 38674, Start Num: 41

Candidate Starts for DaddyDaniels_45:

(17, 38991), (Start: 41 @38889 has 301 MA's), (Start: 60 @38859 has 3 MA's), (71, 38814),

Gene: Daffy_45 Start: 38920, Stop: 38705, Start Num: 41

Candidate Starts for Daffy_45:

(Start: 41 @38920 has 301 MA's), (Start: 60 @38890 has 3 MA's), (71, 38845), (82, 38812),

Gene: Daisy_43 Start: 39054, Stop: 38818, Start Num: 36

Candidate Starts for Daisy_43:

(Start: 36 @39054 has 59 MA's), (64, 38997), (78, 38931), (82, 38925),

Gene: Daka_46 Start: 39193, Stop: 38978, Start Num: 41

Candidate Starts for Daka_46:

(Start: 41 @39193 has 301 MA's), (Start: 60 @39163 has 3 MA's), (71, 39118),

Gene: DanHam62_26 Start: 18732, Stop: 18517, Start Num: 59

Candidate Starts for DanHam62_26:

(Start: 59 @18732 has 19 MA's),

Gene: Daob_27 Start: 19046, Stop: 18825, Start Num: 59

Candidate Starts for Daob_27:

(Start: 59 @19046 has 19 MA's),

Gene: Dati_45 Start: 38914, Stop: 38699, Start Num: 41

Candidate Starts for Dati_45:

(Start: 41 @38914 has 301 MA's), (Start: 60 @38884 has 3 MA's), (71, 38839),

Gene: Deenasa_43 Start: 39789, Stop: 39553, Start Num: 36

Candidate Starts for Deenasa_43:

(Start: 36 @39789 has 59 MA's), (64, 39732), (78, 39666), (82, 39660),

Gene: DelRivs_44 Start: 38915, Stop: 38700, Start Num: 41

Candidate Starts for DelRivs_44:

(17, 39017), (Start: 41 @38915 has 301 MA's), (Start: 60 @38885 has 3 MA's), (71, 38840),

Gene: Demsculpinboyz_28 Start: 24075, Stop: 23896, Start Num: 52
Candidate Starts for Demsculpinboyz_28:
(Start: 38 @24099 has 1 MA's), (Start: 52 @24075 has 10 MA's), (Start: 56 @24069 has 2 MA's),
(Start: 69 @24042 has 4 MA's), (76, 24009), (93, 23913),

Gene: Derpp_44 Start: 38759, Stop: 38544, Start Num: 41
Candidate Starts for Derpp_44:
(Start: 41 @38759 has 301 MA's), (Start: 60 @38729 has 3 MA's), (71, 38684), (82, 38651),

Gene: Devonte_43 Start: 39018, Stop: 38782, Start Num: 36
Candidate Starts for Devonte_43:
(Start: 36 @39018 has 59 MA's), (64, 38961), (78, 38895), (82, 38889),

Gene: Dice_44 Start: 38894, Stop: 38679, Start Num: 41
Candidate Starts for Dice_44:
(Start: 41 @38894 has 301 MA's), (Start: 60 @38864 has 3 MA's), (71, 38819), (82, 38786),

Gene: DigitDog_43 Start: 39348, Stop: 39139, Start Num: 41
Candidate Starts for DigitDog_43:
(17, 39456), (Start: 41 @39348 has 301 MA's), (Start: 60 @39333 has 3 MA's), (67, 39321),

Gene: Dingo_45 Start: 39177, Stop: 38962, Start Num: 41
Candidate Starts for Dingo_45:
(Start: 41 @39177 has 301 MA's), (Start: 60 @39147 has 3 MA's), (71, 39102),

Gene: Dione_44 Start: 38899, Stop: 38684, Start Num: 41
Candidate Starts for Dione_44:
(Start: 41 @38899 has 301 MA's), (Start: 60 @38869 has 3 MA's), (71, 38824), (82, 38791),

Gene: DirtJuice_45 Start: 39183, Stop: 38968, Start Num: 41
Candidate Starts for DirtJuice_45:
(Start: 41 @39183 has 301 MA's), (Start: 60 @39153 has 3 MA's), (71, 39108),

Gene: Doddsville_45 Start: 38913, Stop: 38698, Start Num: 41
Candidate Starts for Doddsville_45:
(17, 39015), (Start: 41 @38913 has 301 MA's), (Start: 60 @38883 has 3 MA's), (71, 38838),

Gene: DoesntMatter_44 Start: 39186, Stop: 38971, Start Num: 41
Candidate Starts for DoesntMatter_44:
(17, 39288), (Start: 41 @39186 has 301 MA's), (Start: 60 @39156 has 3 MA's), (71, 39111),

Gene: DolOn_46 Start: 39423, Stop: 39208, Start Num: 41
Candidate Starts for DolOn_46:
(17, 39525), (Start: 41 @39423 has 301 MA's), (Start: 60 @39393 has 3 MA's), (71, 39348),

Gene: DonSanchon_44 Start: 38893, Stop: 38678, Start Num: 41
Candidate Starts for DonSanchon_44:
(17, 38995), (Start: 41 @38893 has 301 MA's), (Start: 60 @38863 has 3 MA's), (71, 38818),

Gene: Donny_44 Start: 39653, Stop: 39444, Start Num: 41
Candidate Starts for Donny_44:

(15, 39767), (17, 39761), (Start: 41 @39653 has 301 MA's), (Start: 60 @39638 has 3 MA's), (67, 39626), (71, 39593),

Gene: DuchessDung_43 Start: 38047, Stop: 37832, Start Num: 41

Candidate Starts for DuchessDung_43:

(Start: 41 @38047 has 301 MA's), (Start: 60 @38017 has 3 MA's), (71, 37972), (82, 37939),

Gene: Duggie_44 Start: 38915, Stop: 38700, Start Num: 41

Candidate Starts for Duggie_44:

(17, 39017), (Start: 41 @38915 has 301 MA's), (Start: 60 @38885 has 3 MA's), (71, 38840),

Gene: Durga_45 Start: 39213, Stop: 38998, Start Num: 41

Candidate Starts for Durga_45:

(17, 39315), (Start: 41 @39213 has 301 MA's), (Start: 60 @39183 has 3 MA's), (71, 39138),

Gene: Eaglehorse_44 Start: 39470, Stop: 39264, Start Num: 45

Candidate Starts for Eaglehorse_44:

(Start: 45 @39470 has 34 MA's), (Start: 62 @39443 has 3 MA's), (64, 39440), (76, 39386), (85, 39353),

Gene: EastView9101_42 Start: 39303, Stop: 39094, Start Num: 41

Candidate Starts for EastView9101_42:

(15, 39417), (17, 39411), (Start: 41 @39303 has 301 MA's), (Start: 60 @39288 has 3 MA's), (67, 39276), (71, 39243),

Gene: Ebert_31 Start: 25587, Stop: 25387, Start Num: 46

Candidate Starts for Ebert_31:

(Start: 46 @25587 has 13 MA's), (67, 25566), (Start: 69 @25551 has 4 MA's), (70, 25539), (82, 25503),

Gene: Ecliptus_40 Start: 31004, Stop: 30768, Start Num: 51

Candidate Starts for Ecliptus_40:

(Start: 51 @31004 has 36 MA's), (Start: 69 @30962 has 4 MA's), (72, 30941), (81, 30899), (89, 30851),

Gene: ElvisPhasley_45 Start: 39235, Stop: 39020, Start Num: 41

Candidate Starts for ElvisPhasley_45:

(Start: 41 @39235 has 301 MA's), (Start: 60 @39205 has 3 MA's), (71, 39160), (82, 39127),

Gene: Emiris_45 Start: 39181, Stop: 38966, Start Num: 41

Candidate Starts for Emiris_45:

(Start: 41 @39181 has 301 MA's), (Start: 60 @39151 has 3 MA's), (71, 39106), (82, 39073),

Gene: EmpTee_45 Start: 39193, Stop: 38978, Start Num: 41

Candidate Starts for EmpTee_45:

(17, 39295), (Start: 41 @39193 has 301 MA's), (Start: 60 @39163 has 3 MA's), (71, 39118),

Gene: Epah_39 Start: 38171, Stop: 37965, Start Num: 42

Candidate Starts for Epah_39:

(Start: 42 @38171 has 25 MA's), (Start: 60 @38150 has 3 MA's), (Start: 69 @38123 has 4 MA's), (71, 38105), (76, 38087), (84, 38057), (86, 38051), (90, 38030),

Gene: Eremos_45 Start: 39192, Stop: 38977, Start Num: 41

Candidate Starts for Eremos_45:

(Start: 41 @39192 has 301 MA's), (Start: 60 @39162 has 3 MA's), (71, 39117),

Gene: Etaye_45 Start: 39183, Stop: 38968, Start Num: 41
Candidate Starts for Etaye_45:
(Start: 41 @39183 has 301 MA's), (Start: 60 @39153 has 3 MA's), (71, 39108),

Gene: Eudoria_35 Start: 29354, Stop: 29118, Start Num: 51
Candidate Starts for Eudoria_35:
(Start: 51 @29354 has 36 MA's), (Start: 69 @29312 has 4 MA's), (72, 29291), (81, 29249), (89, 29201),
(97, 29129),

Gene: Eugenia_45 Start: 39202, Stop: 38987, Start Num: 41
Candidate Starts for Eugenia_45:
(17, 39304), (Start: 41 @39202 has 301 MA's), (Start: 60 @39172 has 3 MA's), (71, 39127), (82,
39094),

Gene: Evaa_38 Start: 33917, Stop: 33678, Start Num: 40
Candidate Starts for Evaa_38:
(33, 33941), (35, 33935), (Start: 40 @33917 has 3 MA's), (70, 33851), (93, 33746),

Gene: Eviarto_34 Start: 29497, Stop: 29261, Start Num: 51
Candidate Starts for Eviarto_34:
(Start: 51 @29497 has 36 MA's), (Start: 69 @29455 has 4 MA's), (81, 29392), (89, 29344), (90, 29332),

Gene: Fanaw_39 Start: 38868, Stop: 38662, Start Num: 42
Candidate Starts for Fanaw_39:
(Start: 42 @38868 has 25 MA's), (Start: 60 @38847 has 3 MA's), (Start: 69 @38820 has 4 MA's), (71,
38802), (76, 38784), (84, 38754), (86, 38748),

Gene: Fang_45 Start: 39206, Stop: 38991, Start Num: 41
Candidate Starts for Fang_45:
(17, 39308), (Start: 41 @39206 has 301 MA's), (Start: 60 @39176 has 3 MA's), (71, 39131),

Gene: Faze9_43 Start: 39566, Stop: 39360, Start Num: 45
Candidate Starts for Faze9_43:
(Start: 45 @39566 has 34 MA's), (Start: 62 @39539 has 3 MA's), (64, 39536), (76, 39482), (85, 39449),

Gene: FelixTres_40 Start: 34827, Stop: 34573, Start Num: 36
Candidate Starts for FelixTres_40:
(18, 34869), (Start: 36 @34827 has 59 MA's), (Start: 62 @34779 has 3 MA's), (73, 34728), (78, 34710),
(86, 34683),

Gene: Flake_46 Start: 39248, Stop: 39033, Start Num: 41
Candidate Starts for Flake_46:
(17, 39350), (Start: 41 @39248 has 301 MA's), (Start: 60 @39218 has 3 MA's), (71, 39173),

Gene: FleetyMac_45 Start: 39201, Stop: 38986, Start Num: 41
Candidate Starts for FleetyMac_45:
(17, 39303), (Start: 41 @39201 has 301 MA's), (Start: 60 @39171 has 3 MA's), (71, 39126),

Gene: FluffyNinja_45 Start: 39199, Stop: 38984, Start Num: 41
Candidate Starts for FluffyNinja_45:
(Start: 41 @39199 has 301 MA's), (Start: 60 @39169 has 3 MA's), (71, 39124), (82, 39091),

Gene: ForDig_37 Start: 36976, Stop: 36779, Start Num: 41

Candidate Starts for ForDig_37:

(Start: 41 @36976 has 301 MA's), (49, 36964), (64, 36958), (Start: 69 @36937 has 4 MA's), (71, 36919),

Gene: Fortunato_41 Start: 39196, Stop: 38990, Start Num: 42

Candidate Starts for Fortunato_41:

(Start: 42 @39196 has 25 MA's), (Start: 60 @39175 has 3 MA's), (Start: 69 @39148 has 4 MA's), (71, 39130), (76, 39112), (84, 39082), (86, 39076),

Gene: Fozzie_44 Start: 39215, Stop: 39000, Start Num: 41

Candidate Starts for Fozzie_44:

(Start: 41 @39215 has 301 MA's), (Start: 60 @39185 has 3 MA's), (71, 39140), (82, 39107),

Gene: Frankicide_45 Start: 39211, Stop: 38996, Start Num: 41

Candidate Starts for Frankicide_45:

(Start: 41 @39211 has 301 MA's), (Start: 60 @39181 has 3 MA's), (71, 39136), (82, 39103),

Gene: Frederick_41 Start: 39202, Stop: 38996, Start Num: 42

Candidate Starts for Frederick_41:

(Start: 42 @39202 has 25 MA's), (Start: 60 @39181 has 3 MA's), (Start: 69 @39154 has 4 MA's), (71, 39136), (76, 39118), (84, 39088), (86, 39082),

Gene: FremontTroll_45 Start: 38953, Stop: 38738, Start Num: 41

Candidate Starts for FremontTroll_45:

(Start: 41 @38953 has 301 MA's), (Start: 60 @38923 has 3 MA's), (71, 38878),

Gene: FrenchFry_44 Start: 39560, Stop: 39354, Start Num: 45

Candidate Starts for FrenchFry_44:

(Start: 45 @39560 has 34 MA's), (Start: 62 @39533 has 3 MA's), (64, 39530), (76, 39476), (85, 39443),

Gene: Fresco_38 Start: 32837, Stop: 32601, Start Num: 31

Candidate Starts for Fresco_38:

(29, 32840), (Start: 31 @32837 has 5 MA's), (39, 32816), (Start: 42 @32810 has 25 MA's), (Start: 59 @32786 has 19 MA's), (64, 32780), (85, 32690),

Gene: Freya_44 Start: 38890, Stop: 38675, Start Num: 41

Candidate Starts for Freya_44:

(Start: 41 @38890 has 301 MA's), (Start: 60 @38860 has 3 MA's), (71, 38815), (82, 38782),

Gene: FriarPreacher_44 Start: 39217, Stop: 39002, Start Num: 41

Candidate Starts for FriarPreacher_44:

(Start: 41 @39217 has 301 MA's), (Start: 60 @39187 has 3 MA's), (71, 39142),

Gene: Frickyeah_39 Start: 28597, Stop: 28403, Start Num: 69

Candidate Starts for Frickyeah_39:

(Start: 51 @28639 has 36 MA's), (Start: 69 @28597 has 4 MA's), (72, 28576), (81, 28534), (89, 28486),

Gene: Fringe_45 Start: 39182, Stop: 38967, Start Num: 41

Candidate Starts for Fringe_45:

(17, 39284), (Start: 41 @39182 has 301 MA's), (Start: 60 @39152 has 3 MA's), (71, 39107),

Gene: FugateOSU_44 Start: 38895, Stop: 38680, Start Num: 41

Candidate Starts for FugateOSU_44:

(Start: 41 @38895 has 301 MA's), (Start: 60 @38865 has 3 MA's), (71, 38820),

Gene: Funsized_46 Start: 41756, Stop: 41544, Start Num: 41

Candidate Starts for Funsized_46:

(5, 42029), (8, 41957), (32, 41783), (Start: 41 @41756 has 301 MA's), (Start: 45 @41747 has 34 MA's), (63, 41723), (Start: 69 @41702 has 4 MA's), (71, 41684), (76, 41666),

Gene: Gadget_44 Start: 39041, Stop: 38805, Start Num: 36

Candidate Starts for Gadget_44:

(Start: 36 @39041 has 59 MA's), (64, 38984), (78, 38918), (82, 38912),

Gene: Galaxy_26 Start: 19656, Stop: 19465, Start Num: 57

Candidate Starts for Galaxy_26:

(Start: 57 @19656 has 8 MA's),

Gene: Gareth_44 Start: 38898, Stop: 38683, Start Num: 41

Candidate Starts for Gareth_44:

(Start: 41 @38898 has 301 MA's), (Start: 60 @38868 has 3 MA's), (71, 38823), (82, 38790),

Gene: GemG_30 Start: 25663, Stop: 25463, Start Num: 46

Candidate Starts for GemG_30:

(Start: 46 @25663 has 13 MA's), (67, 25642), (Start: 69 @25627 has 4 MA's), (70, 25615), (82, 25579),

Gene: GeneCoco_45 Start: 39207, Stop: 38992, Start Num: 41

Candidate Starts for GeneCoco_45:

(Start: 41 @39207 has 301 MA's), (Start: 60 @39177 has 3 MA's), (71, 39132), (82, 39099),

Gene: Gervas_43 Start: 39008, Stop: 38772, Start Num: 36

Candidate Starts for Gervas_43:

(Start: 36 @39008 has 59 MA's), (64, 38951), (78, 38885), (82, 38879),

Gene: Getalong_40 Start: 31359, Stop: 31123, Start Num: 51

Candidate Starts for Getalong_40:

(Start: 51 @31359 has 36 MA's), (Start: 69 @31317 has 4 MA's), (72, 31296), (81, 31254), (89, 31206),

Gene: GinPorsche_39 Start: 38171, Stop: 37965, Start Num: 42

Candidate Starts for GinPorsche_39:

(Start: 42 @38171 has 25 MA's), (Start: 60 @38150 has 3 MA's), (Start: 69 @38123 has 4 MA's), (71, 38105), (76, 38087), (84, 38057), (86, 38051), (90, 38030),

Gene: Giraffe_45 Start: 38901, Stop: 38686, Start Num: 41

Candidate Starts for Giraffe_45:

(17, 39003), (Start: 41 @38901 has 301 MA's), (Start: 60 @38871 has 3 MA's), (71, 38826),

Gene: Gizermo_30 Start: 25663, Stop: 25463, Start Num: 46

Candidate Starts for Gizermo_30:

(Start: 46 @25663 has 13 MA's), (67, 25642), (Start: 69 @25627 has 4 MA's), (70, 25615), (82, 25579),

Gene: Glass_44 Start: 39560, Stop: 39354, Start Num: 45

Candidate Starts for Glass_44:

(Start: 45 @39560 has 34 MA's), (Start: 62 @39533 has 3 MA's), (64, 39530), (76, 39476), (85, 39443),

Gene: GlenHope_44 Start: 39021, Stop: 38785, Start Num: 36

Candidate Starts for GlenHope_44:

(Start: 36 @39021 has 59 MA's), (64, 38964), (78, 38898), (82, 38892),

Gene: Glotell_26 Start: 18731, Stop: 18516, Start Num: 57

Candidate Starts for Glotell_26:

(16, 18866), (21, 18812), (49, 18743), (Start: 57 @18731 has 8 MA's),

Gene: Glubnar_44 Start: 39020, Stop: 38784, Start Num: 36

Candidate Starts for Glubnar_44:

(Start: 36 @39020 has 59 MA's), (64, 38963), (78, 38897), (82, 38891),

Gene: Godines_44 Start: 39502, Stop: 39296, Start Num: 45

Candidate Starts for Godines_44:

(Start: 45 @39502 has 34 MA's), (Start: 62 @39475 has 3 MA's), (64, 39472), (76, 39418), (85, 39385),

Gene: Gophee_45 Start: 39184, Stop: 38969, Start Num: 41

Candidate Starts for Gophee_45:

(17, 39286), (Start: 41 @39184 has 301 MA's), (Start: 60 @39154 has 3 MA's), (71, 39109),

Gene: Grand2040_44 Start: 38916, Stop: 38701, Start Num: 41

Candidate Starts for Grand2040_44:

(Start: 41 @38916 has 301 MA's), (Start: 60 @38886 has 3 MA's), (71, 38841), (82, 38808),

Gene: GreenChile_45 Start: 39192, Stop: 38977, Start Num: 41

Candidate Starts for GreenChile_45:

(17, 39294), (Start: 41 @39192 has 301 MA's), (Start: 60 @39162 has 3 MA's), (71, 39117),

Gene: Gwennie1_45 Start: 39262, Stop: 39047, Start Num: 41

Candidate Starts for Gwennie1_45:

(Start: 41 @39262 has 301 MA's), (Start: 60 @39232 has 3 MA's), (71, 39187), (82, 39154),

Gene: Gwilliam_45 Start: 39196, Stop: 38981, Start Num: 41

Candidate Starts for Gwilliam_45:

(Start: 41 @39196 has 301 MA's), (Start: 60 @39166 has 3 MA's), (71, 39121),

Gene: Gyarad_0045 Start: 39198, Stop: 38983, Start Num: 41

Candidate Starts for Gyarad_0045:

(Start: 41 @39198 has 301 MA's), (Start: 60 @39168 has 3 MA's), (71, 39123), (82, 39090),

Gene: HSavage_45 Start: 39202, Stop: 38987, Start Num: 41

Candidate Starts for HSavage_45:

(Start: 41 @39202 has 301 MA's), (Start: 60 @39172 has 3 MA's), (71, 39127), (82, 39094),

Gene: Haimas_45 Start: 39193, Stop: 38978, Start Num: 41

Candidate Starts for Haimas_45:

(Start: 41 @39193 has 301 MA's), (Start: 60 @39163 has 3 MA's), (71, 39118),

Gene: Haleema_44 Start: 38916, Stop: 38701, Start Num: 41

Candidate Starts for Haleema_44:

(Start: 41 @38916 has 301 MA's), (Start: 60 @38886 has 3 MA's), (71, 38841), (82, 38808),

Gene: Haley23_30 Start: 25663, Stop: 25463, Start Num: 46

Candidate Starts for Haley23_30:

(Start: 46 @25663 has 13 MA's), (67, 25642), (Start: 69 @25627 has 4 MA's), (70, 25615), (82, 25579),

Gene: Halfpint_42 Start: 38847, Stop: 38611, Start Num: 36

Candidate Starts for Halfpint_42:

(Start: 36 @38847 has 59 MA's), (64, 38790), (78, 38724), (82, 38718),

Gene: Hally898_39 Start: 38183, Stop: 37977, Start Num: 42

Candidate Starts for Hally898_39:

(Start: 42 @38183 has 25 MA's), (Start: 60 @38162 has 3 MA's), (Start: 69 @38135 has 4 MA's), (71, 38117), (76, 38099), (84, 38069), (86, 38063), (90, 38042),

Gene: Hamish_45 Start: 39185, Stop: 38970, Start Num: 41

Candidate Starts for Hamish_45:

(Start: 41 @39185 has 301 MA's), (Start: 60 @39155 has 3 MA's), (71, 39110),

Gene: Hangman_40 Start: 39194, Stop: 38988, Start Num: 42

Candidate Starts for Hangman_40:

(Start: 42 @39194 has 25 MA's), (Start: 60 @39173 has 3 MA's), (Start: 69 @39146 has 4 MA's), (71, 39128), (76, 39110), (84, 39080), (86, 39074),

Gene: HannahPhantana_27 Start: 19053, Stop: 18832, Start Num: 59

Candidate Starts for HannahPhantana_27:

(Start: 59 @19053 has 19 MA's),

Gene: Happabalu_45 Start: 38914, Stop: 38699, Start Num: 41

Candidate Starts for Happabalu_45:

(Start: 41 @38914 has 301 MA's), (Start: 60 @38884 has 3 MA's), (71, 38839),

Gene: Hartsy_45 Start: 39236, Stop: 39021, Start Num: 41

Candidate Starts for Hartsy_45:

(Start: 41 @39236 has 301 MA's), (Start: 60 @39206 has 3 MA's), (71, 39161),

Gene: Harvey_45 Start: 39211, Stop: 38996, Start Num: 41

Candidate Starts for Harvey_45:

(17, 39313), (Start: 41 @39211 has 301 MA's), (Start: 60 @39181 has 3 MA's), (71, 39136),

Gene: HarveySr_43 Start: 39014, Stop: 38778, Start Num: 36

Candidate Starts for HarveySr_43:

(Start: 36 @39014 has 59 MA's), (64, 38957), (78, 38891), (82, 38885),

Gene: Hashim76_46 Start: 38349, Stop: 38134, Start Num: 43

Candidate Starts for Hashim76_46:

(Start: 43 @38349 has 3 MA's), (Start: 60 @38325 has 3 MA's), (73, 38271), (94, 38175),

Gene: Heath_39 Start: 38801, Stop: 38595, Start Num: 42

Candidate Starts for Heath_39:

(Start: 42 @38801 has 25 MA's), (Start: 60 @38780 has 3 MA's), (Start: 69 @38753 has 4 MA's), (71, 38735), (76, 38717), (84, 38687), (86, 38681),

Gene: Heathcliff_43 Start: 38992, Stop: 38756, Start Num: 36

Candidate Starts for Heathcliff_43:

(Start: 36 @38992 has 59 MA's), (64, 38935), (78, 38869), (82, 38863),

Gene: Hedgerow_44 Start: 39542, Stop: 39336, Start Num: 45
Candidate Starts for Hedgerow_44:
(Start: 45 @39542 has 34 MA's), (Start: 62 @39515 has 3 MA's), (64, 39512), (76, 39458), (85, 39425),

Gene: Held_45 Start: 38900, Stop: 38685, Start Num: 41
Candidate Starts for Held_45:
(17, 39002), (Start: 41 @38900 has 301 MA's), (Start: 60 @38870 has 3 MA's), (71, 38825),

Gene: HenryJackson_44 Start: 38916, Stop: 38701, Start Num: 41
Candidate Starts for HenryJackson_44:
(17, 39018), (Start: 41 @38916 has 301 MA's), (Start: 60 @38886 has 3 MA's), (71, 38841),

Gene: Herod_34 Start: 29521, Stop: 29285, Start Num: 51
Candidate Starts for Herod_34:
(Start: 51 @29521 has 36 MA's), (Start: 69 @29479 has 4 MA's), (81, 29416), (89, 29368), (90, 29356),

Gene: Hertubise_45 Start: 39207, Stop: 38992, Start Num: 41
Candidate Starts for Hertubise_45:
(Start: 41 @39207 has 301 MA's), (Start: 60 @39177 has 3 MA's), (71, 39132),

Gene: Hetaeria_45 Start: 39209, Stop: 38994, Start Num: 41
Candidate Starts for Hetaeria_45:
(Start: 41 @39209 has 301 MA's), (Start: 60 @39179 has 3 MA's), (71, 39134),

Gene: HighStump_44 Start: 38899, Stop: 38684, Start Num: 41
Candidate Starts for HighStump_44:
(17, 39001), (Start: 41 @38899 has 301 MA's), (Start: 60 @38869 has 3 MA's), (71, 38824),

Gene: Hocus_44 Start: 38905, Stop: 38690, Start Num: 41
Candidate Starts for Hocus_44:
(Start: 41 @38905 has 301 MA's), (Start: 60 @38875 has 3 MA's), (71, 38830), (82, 38797),

Gene: HogWash_45 Start: 39205, Stop: 38990, Start Num: 41
Candidate Starts for HogWash_45:
(Start: 41 @39205 has 301 MA's), (Start: 60 @39175 has 3 MA's), (71, 39130),

Gene: Holeinone_44 Start: 39422, Stop: 39216, Start Num: 45
Candidate Starts for Holeinone_44:
(Start: 45 @39422 has 34 MA's), (Start: 62 @39395 has 3 MA's), (64, 39392), (76, 39338), (85, 39305),

Gene: Holliday_38 Start: 29214, Stop: 28978, Start Num: 51
Candidate Starts for Holliday_38:
(Start: 51 @29214 has 36 MA's), (Start: 69 @29172 has 4 MA's), (72, 29151), (81, 29109), (89, 29061),

Gene: Horchata_45 Start: 39187, Stop: 38972, Start Num: 41
Candidate Starts for Horchata_45:
(17, 39289), (Start: 41 @39187 has 301 MA's), (Start: 60 @39157 has 3 MA's), (71, 39112),

Gene: Horus_39 Start: 30560, Stop: 30324, Start Num: 51
Candidate Starts for Horus_39:
(Start: 51 @30560 has 36 MA's), (Start: 69 @30518 has 4 MA's), (72, 30497), (81, 30455), (89, 30407),

Gene: Hosp_035 Start: 35180, Stop: 34983, Start Num: 41

Candidate Starts for Hosp_035:

(Start: 41 @35180 has 301 MA's), (49, 35168), (Start: 69 @35141 has 4 MA's), (71, 35123),

Gene: Hugley_32 Start: 29478, Stop: 29284, Start Num: 69

Candidate Starts for Hugley_32:

(Start: 51 @29520 has 36 MA's), (Start: 69 @29478 has 4 MA's), (81, 29415), (89, 29367), (90, 29355),

Gene: Hydro_40 Start: 39211, Stop: 39005, Start Num: 42

Candidate Starts for Hydro_40:

(Start: 42 @39211 has 25 MA's), (Start: 60 @39190 has 3 MA's), (Start: 69 @39163 has 4 MA's), (71, 39145), (76, 39127), (84, 39097), (86, 39091),

Gene: ImtiyazSitla_44 Start: 38747, Stop: 38532, Start Num: 41

Candidate Starts for ImtiyazSitla_44:

(Start: 41 @38747 has 301 MA's), (Start: 60 @38717 has 3 MA's), (71, 38672), (82, 38639),

Gene: Imvubu_36 Start: 35895, Stop: 35680, Start Num: 41

Candidate Starts for Imvubu_36:

(6, 36156), (8, 36096), (Start: 41 @35895 has 301 MA's), (Start: 45 @35886 has 34 MA's), (63, 35859), (Start: 69 @35838 has 4 MA's), (71, 35820), (84, 35772), (86, 35766),

Gene: Inchworm_45 Start: 39185, Stop: 38970, Start Num: 41

Candidate Starts for Inchworm_45:

(17, 39287), (Start: 41 @39185 has 301 MA's), (Start: 60 @39155 has 3 MA's), (71, 39110),

Gene: Indlovu_42 Start: 38503, Stop: 38300, Start Num: 41

Candidate Starts for Indlovu_42:

(17, 38602), (Start: 41 @38503 has 301 MA's), (Start: 60 @38485 has 3 MA's), (Start: 69 @38458 has 4 MA's), (71, 38440), (84, 38392),

Gene: Inverness_45 Start: 39199, Stop: 38984, Start Num: 41

Candidate Starts for Inverness_45:

(Start: 41 @39199 has 301 MA's), (Start: 60 @39169 has 3 MA's), (71, 39124), (82, 39091),

Gene: Iridessa_45 Start: 38901, Stop: 38686, Start Num: 41

Candidate Starts for Iridessa_45:

(Start: 41 @38901 has 301 MA's), (Start: 60 @38871 has 3 MA's), (71, 38826), (82, 38793),

Gene: Iridoclysis_45 Start: 39179, Stop: 38964, Start Num: 41

Candidate Starts for Iridoclysis_45:

(Start: 41 @39179 has 301 MA's), (Start: 60 @39149 has 3 MA's), (71, 39104),

Gene: IsaacEli_45 Start: 39203, Stop: 38988, Start Num: 41

Candidate Starts for IsaacEli_45:

(17, 39305), (Start: 41 @39203 has 301 MA's), (Start: 60 @39173 has 3 MA's), (71, 39128),

Gene: ItsyBitsy1_44 Start: 39424, Stop: 39218, Start Num: 45

Candidate Starts for ItsyBitsy1_44:

(Start: 45 @39424 has 34 MA's), (Start: 62 @39397 has 3 MA's), (64, 39394), (76, 39340), (85, 39307),

Gene: JAMaL_40 Start: 39382, Stop: 39176, Start Num: 42

Candidate Starts for JAMaL_40:

(Start: 42 @39382 has 25 MA's), (Start: 60 @39361 has 3 MA's), (Start: 69 @39334 has 4 MA's), (71, 39316), (76, 39298), (84, 39268), (86, 39262),

Gene: JDog_44 Start: 38916, Stop: 38701, Start Num: 41

Candidate Starts for JDog_44:

(Start: 41 @38916 has 301 MA's), (Start: 60 @38886 has 3 MA's), (71, 38841),

Gene: JacAttac_45 Start: 39185, Stop: 38970, Start Num: 41

Candidate Starts for JacAttac_45:

(Start: 41 @39185 has 301 MA's), (Start: 60 @39155 has 3 MA's), (71, 39110), (82, 39077),

Gene: Jackstina_40 Start: 38951, Stop: 38715, Start Num: 36

Candidate Starts for Jackstina_40:

(Start: 36 @38951 has 59 MA's), (64, 38894), (78, 38828), (82, 38822),

Gene: JaguarMi_40 Start: 38677, Stop: 38471, Start Num: 42

Candidate Starts for JaguarMi_40:

(Start: 42 @38677 has 25 MA's), (Start: 60 @38656 has 3 MA's), (Start: 69 @38629 has 4 MA's), (71, 38611), (76, 38593), (84, 38563), (86, 38557),

Gene: JakeO_44 Start: 38918, Stop: 38703, Start Num: 41

Candidate Starts for JakeO_44:

(Start: 41 @38918 has 301 MA's), (Start: 60 @38888 has 3 MA's), (71, 38843),

Gene: Jalleen_30 Start: 25302, Stop: 25102, Start Num: 46

Candidate Starts for Jalleen_30:

(Start: 46 @25302 has 13 MA's), (67, 25281), (Start: 69 @25266 has 4 MA's), (70, 25254), (82, 25218),

Gene: Jamun_25 Start: 19385, Stop: 19188, Start Num: 50

Candidate Starts for Jamun_25:

(1, 20447), (2, 20237), (3, 19964), (4, 19799), (Start: 50 @19385 has 4 MA's),

Gene: JangoPhett_45 Start: 39187, Stop: 38972, Start Num: 41

Candidate Starts for JangoPhett_45:

(Start: 41 @39187 has 301 MA's), (Start: 60 @39157 has 3 MA's), (71, 39112),

Gene: Jesabah_45 Start: 38918, Stop: 38703, Start Num: 41

Candidate Starts for Jesabah_45:

(Start: 41 @38918 has 301 MA's), (Start: 60 @38888 has 3 MA's), (71, 38843), (82, 38810),

Gene: Jillium_44 Start: 38909, Stop: 38694, Start Num: 41

Candidate Starts for Jillium_44:

(Start: 41 @38909 has 301 MA's), (Start: 60 @38879 has 3 MA's), (71, 38834),

Gene: Jiminy_44 Start: 38753, Stop: 38538, Start Num: 41

Candidate Starts for Jiminy_44:

(17, 38855), (Start: 41 @38753 has 301 MA's), (Start: 60 @38723 has 3 MA's), (71, 38678),

Gene: Jiraiya_44 Start: 38906, Stop: 38691, Start Num: 41

Candidate Starts for Jiraiya_44:

(17, 39008), (Start: 41 @38906 has 301 MA's), (Start: 60 @38876 has 3 MA's), (71, 38831),

Gene: Jolie1_037 Start: 36967, Stop: 36770, Start Num: 41

Candidate Starts for Jolie1_037:

(Start: 41 @36967 has 301 MA's), (49, 36955), (64, 36949), (Start: 69 @36928 has 4 MA's), (71, 36910),

Gene: JoyceMaria_40 Start: 39197, Stop: 38991, Start Num: 42

Candidate Starts for JoyceMaria_40:

(Start: 42 @39197 has 25 MA's), (Start: 60 @39176 has 3 MA's), (Start: 69 @39149 has 4 MA's), (71, 39131), (76, 39113), (84, 39083), (86, 39077),

Gene: KHumphrey_26 Start: 18730, Stop: 18515, Start Num: 59

Candidate Starts for KHumphrey_26:

(Start: 59 @18730 has 19 MA's),

Gene: KLucky39_45 Start: 39197, Stop: 38982, Start Num: 41

Candidate Starts for KLucky39_45:

(Start: 41 @39197 has 301 MA's), (Start: 60 @39167 has 3 MA's), (71, 39122), (82, 39089),

Gene: Kahve_44 Start: 38913, Stop: 38698, Start Num: 41

Candidate Starts for Kahve_44:

(Start: 41 @38913 has 301 MA's), (Start: 60 @38883 has 3 MA's), (71, 38838),

Gene: Kailash_45 Start: 39251, Stop: 39036, Start Num: 41

Candidate Starts for Kailash_45:

(Start: 41 @39251 has 301 MA's), (Start: 60 @39221 has 3 MA's), (71, 39176),

Gene: Kaleb_44 Start: 39557, Stop: 39351, Start Num: 45

Candidate Starts for Kaleb_44:

(Start: 45 @39557 has 34 MA's), (Start: 62 @39530 has 3 MA's), (64, 39527), (76, 39473), (85, 39440),

Gene: Kamiyu_43 Start: 39000, Stop: 38764, Start Num: 36

Candidate Starts for Kamiyu_43:

(Start: 36 @39000 has 59 MA's), (64, 38943), (78, 38877), (82, 38871),

Gene: KarasumaRum_45 Start: 39790, Stop: 39581, Start Num: 41

Candidate Starts for KarasumaRum_45:

(17, 39898), (Start: 41 @39790 has 301 MA's), (Start: 60 @39775 has 3 MA's), (67, 39763),

Gene: Karn_44 Start: 38913, Stop: 38698, Start Num: 41

Candidate Starts for Karn_44:

(17, 39015), (Start: 41 @38913 has 301 MA's), (Start: 60 @38883 has 3 MA's), (71, 38838),

Gene: Katniss_45 Start: 39212, Stop: 38997, Start Num: 41

Candidate Starts for Katniss_45:

(17, 39314), (Start: 41 @39212 has 301 MA's), (Start: 60 @39182 has 3 MA's), (71, 39137),

Gene: KayaCho_37 Start: 36966, Stop: 36766, Start Num: 41

Candidate Starts for KayaCho_37:

(Start: 41 @36966 has 301 MA's), (Start: 60 @36951 has 3 MA's), (Start: 69 @36924 has 4 MA's), (71, 36906),

Gene: Keitherie_45 Start: 39250, Stop: 39035, Start Num: 41

Candidate Starts for Keitherie_45:

(17, 39352), (Start: 41 @39250 has 301 MA's), (Start: 60 @39220 has 3 MA's), (71, 39175),

Gene: Kenna_38 Start: 29550, Stop: 29314, Start Num: 51

Candidate Starts for Kenna_38:

(Start: 51 @29550 has 36 MA's), (Start: 69 @29508 has 4 MA's), (72, 29487), (81, 29445), (89, 29397),

Gene: Kenuha5_22 Start: 24468, Stop: 24289, Start Num: 52

Candidate Starts for Kenuha5_22:

(Start: 38 @24492 has 1 MA's), (Start: 52 @24468 has 10 MA's), (Start: 56 @24462 has 2 MA's),
(Start: 69 @24435 has 4 MA's), (76, 24402), (93, 24306),

Gene: Kersh_23 Start: 24511, Stop: 24332, Start Num: 52

Candidate Starts for Kersh_23:

(Start: 38 @24535 has 1 MA's), (Start: 52 @24511 has 10 MA's), (Start: 56 @24505 has 2 MA's),
(Start: 69 @24478 has 4 MA's), (76, 24445), (93, 24349),

Gene: Khan1_45 Start: 38934, Stop: 38719, Start Num: 41

Candidate Starts for Khan1_45:

(Start: 41 @38934 has 301 MA's), (Start: 60 @38904 has 3 MA's), (71, 38859), (82, 38826),

Gene: Kheth_44 Start: 39445, Stop: 39239, Start Num: 45

Candidate Starts for Kheth_44:

(Start: 45 @39445 has 34 MA's), (Start: 62 @39418 has 3 MA's), (64, 39415), (76, 39361), (85, 39328),

Gene: Kikipoo_45 Start: 39203, Stop: 38988, Start Num: 41

Candidate Starts for Kikipoo_45:

(17, 39305), (Start: 41 @39203 has 301 MA's), (Start: 60 @39173 has 3 MA's), (71, 39128),

Gene: Kimbrough_45 Start: 38905, Stop: 38690, Start Num: 41

Candidate Starts for Kimbrough_45:

(17, 39007), (Start: 41 @38905 has 301 MA's), (Start: 60 @38875 has 3 MA's), (71, 38830),

Gene: KingTut_36 Start: 34574, Stop: 34359, Start Num: 41

Candidate Starts for KingTut_36:

(Start: 41 @34574 has 301 MA's), (Start: 60 @34544 has 3 MA's), (71, 34499), (82, 34466),

Gene: KingVeVeVe_45 Start: 39178, Stop: 38963, Start Num: 41

Candidate Starts for KingVeVeVe_45:

(Start: 41 @39178 has 301 MA's), (Start: 60 @39148 has 3 MA's), (71, 39103),

Gene: Kita_36 Start: 29363, Stop: 29127, Start Num: 51

Candidate Starts for Kita_36:

(Start: 51 @29363 has 36 MA's), (Start: 69 @29321 has 4 MA's), (72, 29300), (81, 29258), (89, 29210),
(97, 29138),

Gene: KlimbOn_45 Start: 39191, Stop: 38976, Start Num: 41

Candidate Starts for KlimbOn_45:

(Start: 41 @39191 has 301 MA's), (Start: 60 @39161 has 3 MA's), (71, 39116), (82, 39083),

Gene: Kloppinator_45 Start: 39214, Stop: 38999, Start Num: 41

Candidate Starts for Kloppinator_45:

(17, 39316), (Start: 41 @39214 has 301 MA's), (Start: 60 @39184 has 3 MA's), (71, 39139), (82,
39106),

Gene: Knocker_45 Start: 40870, Stop: 40658, Start Num: 41
Candidate Starts for Knocker_45:
(17, 40978), (Start: 41 @40870 has 301 MA's), (Start: 45 @40861 has 34 MA's), (63, 40837), (66, 40831), (Start: 69 @40816 has 4 MA's), (71, 40798),

Gene: Kolhan_44 Start: 39436, Stop: 39230, Start Num: 45
Candidate Starts for Kolhan_44:
(Start: 45 @39436 has 34 MA's), (Start: 62 @39409 has 3 MA's), (64, 39406), (76, 39352), (85, 39319),

Gene: Kronus_42 Start: 39610, Stop: 39374, Start Num: 36
Candidate Starts for Kronus_42:
(Start: 36 @39610 has 59 MA's), (64, 39553), (78, 39487), (82, 39481),

Gene: Kuleana_27 Start: 19065, Stop: 18880, Start Num: 57
Candidate Starts for Kuleana_27:
(49, 19077), (Start: 57 @19065 has 8 MA's),

Gene: Kwadwo_44 Start: 38895, Stop: 38680, Start Num: 41
Candidate Starts for Kwadwo_44:
(Start: 41 @38895 has 301 MA's), (Start: 60 @38865 has 3 MA's), (71, 38820), (82, 38787),

Gene: Kwksand96_44 Start: 38764, Stop: 38549, Start Num: 41
Candidate Starts for Kwksand96_44:
(Start: 41 @38764 has 301 MA's), (Start: 60 @38734 has 3 MA's), (71, 38689), (82, 38656),

Gene: Labeouficaum_44 Start: 38759, Stop: 38544, Start Num: 41
Candidate Starts for Labeouficaum_44:
(Start: 41 @38759 has 301 MA's), (Start: 60 @38729 has 3 MA's), (71, 38684), (82, 38651),

Gene: Lambano_39 Start: 38183, Stop: 37977, Start Num: 42
Candidate Starts for Lambano_39:
(Start: 42 @38183 has 25 MA's), (Start: 60 @38162 has 3 MA's), (Start: 69 @38135 has 4 MA's), (71, 38117), (76, 38099), (84, 38069), (86, 38063), (90, 38042),

Gene: Lars_44 Start: 39547, Stop: 39341, Start Num: 45
Candidate Starts for Lars_44:
(Start: 45 @39547 has 34 MA's), (Start: 62 @39520 has 3 MA's), (64, 39517), (76, 39463), (85, 39430),

Gene: Larson_46 Start: 39308, Stop: 39093, Start Num: 41
Candidate Starts for Larson_46:
(17, 39410), (Start: 41 @39308 has 301 MA's), (Start: 60 @39278 has 3 MA's), (71, 39233),

Gene: LasagnaCat_45 Start: 39197, Stop: 38982, Start Num: 41
Candidate Starts for LasagnaCat_45:
(17, 39299), (Start: 41 @39197 has 301 MA's), (Start: 60 @39167 has 3 MA's), (71, 39122),

Gene: Lasso_45 Start: 39170, Stop: 38955, Start Num: 41
Candidate Starts for Lasso_45:
(Start: 41 @39170 has 301 MA's), (Start: 60 @39140 has 3 MA's), (71, 39095),

Gene: Laurie_43 Start: 38946, Stop: 38740, Start Num: 45
Candidate Starts for Laurie_43:
(Start: 45 @38946 has 34 MA's), (Start: 62 @38919 has 3 MA's), (64, 38916), (76, 38862), (85, 38829),

Gene: LeeLot_45 Start: 39201, Stop: 38986, Start Num: 41

Candidate Starts for LeeLot_45:

(17, 39303), (Start: 41 @39201 has 301 MA's), (Start: 60 @39171 has 3 MA's), (71, 39126),

Gene: Lego3393_44 Start: 39206, Stop: 38991, Start Num: 41

Candidate Starts for Lego3393_44:

(17, 39308), (Start: 41 @39206 has 301 MA's), (Start: 60 @39176 has 3 MA's), (71, 39131),

Gene: Legolas_44 Start: 38911, Stop: 38696, Start Num: 41

Candidate Starts for Legolas_44:

(Start: 41 @38911 has 301 MA's), (Start: 60 @38881 has 3 MA's), (71, 38836), (82, 38803),

Gene: Lehmann_45 Start: 38734, Stop: 38519, Start Num: 41

Candidate Starts for Lehmann_45:

(Start: 41 @38734 has 301 MA's), (Start: 60 @38704 has 3 MA's), (71, 38659), (82, 38626),

Gene: LeiMonet_46 Start: 38902, Stop: 38687, Start Num: 41

Candidate Starts for LeiMonet_46:

(17, 39004), (Start: 41 @38902 has 301 MA's), (Start: 60 @38872 has 3 MA's), (71, 38827),

Gene: LemonSlice_45 Start: 38898, Stop: 38683, Start Num: 41

Candidate Starts for LemonSlice_45:

(17, 39000), (Start: 41 @38898 has 301 MA's), (Start: 60 @38868 has 3 MA's), (71, 38823),

Gene: Leona_25 Start: 18655, Stop: 18440, Start Num: 57

Candidate Starts for Leona_25:

(16, 18790), (21, 18736), (49, 18667), (Start: 57 @18655 has 8 MA's),

Gene: Lephleur_44 Start: 39440, Stop: 39234, Start Num: 45

Candidate Starts for Lephleur_44:

(Start: 45 @39440 has 34 MA's), (Start: 62 @39413 has 3 MA's), (64, 39410), (76, 39356), (85, 39323),

Gene: Leroy_39 Start: 30561, Stop: 30325, Start Num: 51

Candidate Starts for Leroy_39:

(Start: 51 @30561 has 36 MA's), (Start: 69 @30519 has 4 MA's), (72, 30498), (81, 30456), (89, 30408),

Gene: LestyG_43 Start: 39031, Stop: 38795, Start Num: 36

Candidate Starts for LestyG_43:

(Start: 36 @39031 has 59 MA's), (64, 38974), (78, 38908), (82, 38902),

Gene: Ligma_38 Start: 32837, Stop: 32601, Start Num: 31

Candidate Starts for Ligma_38:

(29, 32840), (Start: 31 @32837 has 5 MA's), (39, 32816), (Start: 42 @32810 has 25 MA's), (Start: 59 @32786 has 19 MA's), (64, 32780), (85, 32690),

Gene: LilMcDreamy_41 Start: 38754, Stop: 38542, Start Num: 41

Candidate Starts for LilMcDreamy_41:

(17, 38862), (Start: 41 @38754 has 301 MA's), (Start: 60 @38736 has 3 MA's), (71, 38691), (86, 38637),

Gene: LilSmirk_44 Start: 39434, Stop: 39228, Start Num: 45

Candidate Starts for LilSmirk_44:

(Start: 45 @39434 has 34 MA's), (Start: 62 @39407 has 3 MA's), (64, 39404), (76, 39350), (85, 39317),

Gene: LittleDigger_39 Start: 38205, Stop: 37999, Start Num: 42

Candidate Starts for LittleDigger_39:

(Start: 42 @38205 has 25 MA's), (Start: 60 @38184 has 3 MA's), (Start: 69 @38157 has 4 MA's), (71, 38139), (76, 38121), (84, 38091), (86, 38085), (90, 38064),

Gene: LittleMinkey_49 Start: 38461, Stop: 38246, Start Num: 43

Candidate Starts for LittleMinkey_49:

(Start: 43 @38461 has 3 MA's), (Start: 60 @38437 has 3 MA's), (73, 38383), (94, 38287),

Gene: LittleMunchkin_40 Start: 36172, Stop: 35945, Start Num: 34

Candidate Starts for LittleMunchkin_40:

(Start: 34 @36172 has 5 MA's), (79, 36055), (86, 36031),

Gene: LizLemon_44 Start: 39556, Stop: 39350, Start Num: 45

Candidate Starts for LizLemon_44:

(Start: 45 @39556 has 34 MA's), (Start: 62 @39529 has 3 MA's), (64, 39526), (76, 39472), (85, 39439),

Gene: Lolalove_40 Start: 39208, Stop: 39002, Start Num: 42

Candidate Starts for Lolalove_40:

(Start: 42 @39208 has 25 MA's), (Start: 60 @39187 has 3 MA's), (Start: 69 @39160 has 4 MA's), (71, 39142), (76, 39124), (84, 39094), (86, 39088),

Gene: LonelyBoi_35 Start: 30866, Stop: 30690, Start Num: 54

Candidate Starts for LonelyBoi_35:

(Start: 54 @30866 has 1 MA's), (67, 30851), (70, 30824),

Gene: Longacauda_44 Start: 38903, Stop: 38688, Start Num: 41

Candidate Starts for Longacauda_44:

(Start: 41 @38903 has 301 MA's), (Start: 60 @38873 has 3 MA's), (71, 38828), (82, 38795),

Gene: Lopsy_44 Start: 38753, Stop: 38538, Start Num: 41

Candidate Starts for Lopsy_44:

(17, 38855), (Start: 41 @38753 has 301 MA's), (Start: 60 @38723 has 3 MA's), (71, 38678),

Gene: LostAndPhound_44 Start: 38904, Stop: 38689, Start Num: 41

Candidate Starts for LostAndPhound_44:

(17, 39006), (Start: 41 @38904 has 301 MA's), (Start: 60 @38874 has 3 MA's), (71, 38829),

Gene: LuckyMarjie_44 Start: 38913, Stop: 38698, Start Num: 41

Candidate Starts for LuckyMarjie_44:

(Start: 41 @38913 has 301 MA's), (Start: 60 @38883 has 3 MA's), (71, 38838), (82, 38805),

Gene: Lukepolites_69 Start: 44405, Stop: 44190, Start Num: 60

Candidate Starts for Lukepolites_69:

(Start: 60 @44405 has 3 MA's),

Gene: Lulumae_44 Start: 38895, Stop: 38680, Start Num: 41

Candidate Starts for Lulumae_44:

(Start: 41 @38895 has 301 MA's), (Start: 60 @38865 has 3 MA's), (71, 38820), (82, 38787),

Gene: Lulwa_45 Start: 39182, Stop: 38967, Start Num: 41

Candidate Starts for Lulwa_45:
(17, 39284), (Start: 41 @39182 has 301 MA's), (Start: 60 @39152 has 3 MA's), (71, 39107),

Gene: Lumine_44 Start: 38891, Stop: 38676, Start Num: 41
Candidate Starts for Lumine_44:
(17, 38993), (Start: 41 @38891 has 301 MA's), (Start: 60 @38861 has 3 MA's), (71, 38816),

Gene: Lunar_27 Start: 19041, Stop: 18820, Start Num: 59
Candidate Starts for Lunar_27:
(Start: 59 @19041 has 19 MA's),

Gene: Lutum_39 Start: 29550, Stop: 29314, Start Num: 51
Candidate Starts for Lutum_39:
(Start: 51 @29550 has 36 MA's), (Start: 69 @29508 has 4 MA's), (72, 29487), (81, 29445), (89, 29397),

Gene: MRabcd_44 Start: 38895, Stop: 38680, Start Num: 41
Candidate Starts for MRabcd_44:
(Start: 41 @38895 has 301 MA's), (Start: 60 @38865 has 3 MA's), (71, 38820), (82, 38787),

Gene: Madiba_23 Start: 24209, Stop: 24036, Start Num: 56
Candidate Starts for Madiba_23:
(Start: 38 @24239 has 1 MA's), (Start: 52 @24215 has 10 MA's), (Start: 56 @24209 has 2 MA's),
(Start: 69 @24182 has 4 MA's), (76, 24149), (93, 24053),

Gene: Mag7_44 Start: 38801, Stop: 38586, Start Num: 41
Candidate Starts for Mag7_44:
(Start: 41 @38801 has 301 MA's), (Start: 60 @38771 has 3 MA's), (71, 38726),

Gene: Magic8_45 Start: 39236, Stop: 39021, Start Num: 41
Candidate Starts for Magic8_45:
(Start: 41 @39236 has 301 MA's), (Start: 60 @39206 has 3 MA's), (71, 39161),

Gene: Magpie_39 Start: 39044, Stop: 38838, Start Num: 42
Candidate Starts for Magpie_39:
(Start: 42 @39044 has 25 MA's), (Start: 60 @39023 has 3 MA's), (Start: 69 @38996 has 4 MA's), (71, 38978), (76, 38960), (84, 38930), (86, 38924),

Gene: MakoManhole_40 Start: 34842, Stop: 34588, Start Num: 36
Candidate Starts for MakoManhole_40:
(18, 34884), (Start: 36 @34842 has 59 MA's), (Start: 62 @34794 has 3 MA's), (73, 34743), (78, 34725),
(86, 34698),

Gene: Mana_44 Start: 38910, Stop: 38695, Start Num: 41
Candidate Starts for Mana_44:
(Start: 41 @38910 has 301 MA's), (Start: 60 @38880 has 3 MA's), (71, 38835), (82, 38802),

Gene: Manad_44 Start: 38752, Stop: 38537, Start Num: 41
Candidate Starts for Manad_44:
(17, 38854), (Start: 41 @38752 has 301 MA's), (Start: 60 @38722 has 3 MA's), (71, 38677),

Gene: Manasvini_35 Start: 29355, Stop: 29119, Start Num: 51
Candidate Starts for Manasvini_35:

(Start: 51 @29355 has 36 MA's), (Start: 69 @29313 has 4 MA's), (72, 29292), (81, 29250), (89, 29202), (97, 29130),

Gene: Maridalia_34 Start: 29354, Stop: 29118, Start Num: 51

Candidate Starts for Maridalia_34:

(Start: 51 @29354 has 36 MA's), (Start: 69 @29312 has 4 MA's), (72, 29291), (81, 29249), (89, 29201), (97, 29129),

Gene: Mariokart_38 Start: 32762, Stop: 32526, Start Num: 31

Candidate Starts for Mariokart_38:

(27, 32777), (29, 32765), (Start: 31 @32762 has 5 MA's), (Start: 59 @32711 has 19 MA's), (64, 32705), (85, 32615),

Gene: Marley1013_43 Start: 39809, Stop: 39573, Start Num: 36

Candidate Starts for Marley1013_43:

(Start: 36 @39809 has 59 MA's), (64, 39752), (78, 39686), (82, 39680),

Gene: Marlia_43 Start: 39012, Stop: 38776, Start Num: 36

Candidate Starts for Marlia_43:

(Start: 36 @39012 has 59 MA's), (64, 38955), (78, 38889), (82, 38883),

Gene: Maru_44 Start: 38853, Stop: 38638, Start Num: 41

Candidate Starts for Maru_44:

(Start: 41 @38853 has 301 MA's), (Start: 60 @38823 has 3 MA's), (71, 38778), (82, 38745),

Gene: Maruru_31 Start: 29698, Stop: 29486, Start Num: 58

Candidate Starts for Maruru_31:

(11, 29905), (44, 29716), (Start: 58 @29698 has 3 MA's),

Gene: Maskar_44 Start: 38747, Stop: 38532, Start Num: 41

Candidate Starts for Maskar_44:

(Start: 41 @38747 has 301 MA's), (Start: 60 @38717 has 3 MA's), (71, 38672), (82, 38639),

Gene: MasterPo_44 Start: 39443, Stop: 39237, Start Num: 45

Candidate Starts for MasterPo_44:

(Start: 45 @39443 has 34 MA's), (Start: 62 @39416 has 3 MA's), (64, 39413), (76, 39359), (85, 39326),

Gene: Matalotodo_45 Start: 39196, Stop: 38981, Start Num: 41

Candidate Starts for Matalotodo_45:

(Start: 41 @39196 has 301 MA's), (Start: 60 @39166 has 3 MA's), (71, 39121),

Gene: Mcshane_44 Start: 38893, Stop: 38678, Start Num: 41

Candidate Starts for Mcshane_44:

(Start: 41 @38893 has 301 MA's), (Start: 60 @38863 has 3 MA's), (71, 38818), (82, 38785),

Gene: Mecca_44 Start: 38896, Stop: 38681, Start Num: 41

Candidate Starts for Mecca_44:

(17, 38998), (Start: 41 @38896 has 301 MA's), (Start: 60 @38866 has 3 MA's), (71, 38821),

Gene: Megamind20_45 Start: 38918, Stop: 38703, Start Num: 41

Candidate Starts for Megamind20_45:

(17, 39020), (Start: 41 @38918 has 301 MA's), (Start: 60 @38888 has 3 MA's), (71, 38843),

Gene: Megatron_45 Start: 39194, Stop: 38979, Start Num: 41
Candidate Starts for Megatron_45:
(17, 39296), (Start: 41 @39194 has 301 MA's), (Start: 60 @39164 has 3 MA's), (71, 39119),

Gene: Melc17_45 Start: 39191, Stop: 38976, Start Num: 41
Candidate Starts for Melc17_45:
(Start: 41 @39191 has 301 MA's), (Start: 60 @39161 has 3 MA's), (71, 39116),

Gene: Melons_27 Start: 19041, Stop: 18820, Start Num: 59
Candidate Starts for Melons_27:
(Start: 59 @19041 has 19 MA's),

Gene: MelsMeow_44 Start: 38797, Stop: 38582, Start Num: 41
Candidate Starts for MelsMeow_44:
(Start: 41 @38797 has 301 MA's), (Start: 60 @38767 has 3 MA's), (71, 38722), (82, 38689),

Gene: Mesh1_45 Start: 39208, Stop: 38993, Start Num: 41
Candidate Starts for Mesh1_45:
(Start: 41 @39208 has 301 MA's), (Start: 60 @39178 has 3 MA's), (71, 39133),

Gene: Mesmerelda_44 Start: 38906, Stop: 38691, Start Num: 41
Candidate Starts for Mesmerelda_44:
(17, 39008), (Start: 41 @38906 has 301 MA's), (Start: 60 @38876 has 3 MA's), (71, 38831),

Gene: MichaelPhcott_44 Start: 38798, Stop: 38583, Start Num: 41
Candidate Starts for MichaelPhcott_44:
(Start: 41 @38798 has 301 MA's), (Start: 60 @38768 has 3 MA's), (71, 38723),

Gene: Mikota_45 Start: 39181, Stop: 38966, Start Num: 41
Candidate Starts for Mikota_45:
(Start: 41 @39181 has 301 MA's), (Start: 60 @39151 has 3 MA's), (71, 39106), (82, 39073),

Gene: MiniBoss_45 Start: 39187, Stop: 38972, Start Num: 41
Candidate Starts for MiniBoss_45:
(Start: 41 @39187 has 301 MA's), (Start: 60 @39157 has 3 MA's), (71, 39112), (82, 39079),

Gene: MitKao_45 Start: 38902, Stop: 38687, Start Num: 41
Candidate Starts for MitKao_45:
(17, 39004), (Start: 41 @38902 has 301 MA's), (Start: 60 @38872 has 3 MA's), (71, 38827),

Gene: Mithril_40 Start: 39212, Stop: 39006, Start Num: 42
Candidate Starts for Mithril_40:
(Start: 42 @39212 has 25 MA's), (Start: 60 @39191 has 3 MA's), (Start: 69 @39164 has 4 MA's), (71, 39146), (76, 39128), (84, 39098), (86, 39092),

Gene: MmasiCarm_43 Start: 39013, Stop: 38777, Start Num: 36
Candidate Starts for MmasiCarm_43:
(Start: 36 @39013 has 59 MA's), (64, 38956), (78, 38890), (82, 38884),

Gene: Mocha12_30 Start: 25663, Stop: 25463, Start Num: 46
Candidate Starts for Mocha12_30:
(Start: 46 @25663 has 13 MA's), (67, 25642), (Start: 69 @25627 has 4 MA's), (70, 25615), (82, 25579),

Gene: Morgushi_45 Start: 38903, Stop: 38688, Start Num: 41
Candidate Starts for Morgushi_45:
(Start: 41 @38903 has 301 MA's), (Start: 60 @38873 has 3 MA's), (71, 38828), (82, 38795),

Gene: Mortcellus_42 Start: 39665, Stop: 39429, Start Num: 36
Candidate Starts for Mortcellus_42:
(Start: 36 @39665 has 59 MA's), (64, 39608), (78, 39542), (82, 39536),

Gene: Morty_45 Start: 39203, Stop: 38988, Start Num: 41
Candidate Starts for Morty_45:
(17, 39305), (Start: 41 @39203 has 301 MA's), (Start: 60 @39173 has 3 MA's), (71, 39128),

Gene: Morty007_43 Start: 39809, Stop: 39573, Start Num: 36
Candidate Starts for Morty007_43:
(Start: 36 @39809 has 59 MA's), (64, 39752), (78, 39686), (82, 39680),

Gene: Mosaic_44 Start: 38908, Stop: 38693, Start Num: 41
Candidate Starts for Mosaic_44:
(17, 39010), (Start: 41 @38908 has 301 MA's), (Start: 60 @38878 has 3 MA's), (71, 38833),

Gene: MossRose_40 Start: 34821, Stop: 34567, Start Num: 36
Candidate Starts for MossRose_40:
(18, 34863), (Start: 36 @34821 has 59 MA's), (Start: 62 @34773 has 3 MA's), (73, 34722), (78, 34704),
(86, 34677),

Gene: MrPhizzler_45 Start: 38911, Stop: 38696, Start Num: 41
Candidate Starts for MrPhizzler_45:
(Start: 41 @38911 has 301 MA's), (Start: 60 @38881 has 3 MA's), (71, 38836), (82, 38803),

Gene: Mudslide_40 Start: 39444, Stop: 39238, Start Num: 42
Candidate Starts for Mudslide_40:
(Start: 42 @39444 has 25 MA's), (Start: 60 @39423 has 3 MA's), (Start: 69 @39396 has 4 MA's), (71,
39378), (76, 39360), (84, 39330), (86, 39324),

Gene: Mufasa8_29 Start: 27032, Stop: 26823, Start Num: 58
Candidate Starts for Mufasa8_29:
(Start: 58 @27032 has 3 MA's),

Gene: Mulan_44 Start: 38920, Stop: 38705, Start Num: 41
Candidate Starts for Mulan_44:
(Start: 41 @38920 has 301 MA's), (Start: 60 @38890 has 3 MA's), (71, 38845),

Gene: Mulaychimus_43 Start: 38995, Stop: 38759, Start Num: 36
Candidate Starts for Mulaychimus_43:
(Start: 36 @38995 has 59 MA's), (64, 38938), (78, 38872), (82, 38866),

Gene: Murdoc_45 Start: 39195, Stop: 38980, Start Num: 41
Candidate Starts for Murdoc_45:
(Start: 41 @39195 has 301 MA's), (Start: 60 @39165 has 3 MA's), (71, 39120), (82, 39087),

Gene: Mutante_44 Start: 38902, Stop: 38687, Start Num: 41
Candidate Starts for Mutante_44:
(17, 39004), (Start: 41 @38902 has 301 MA's), (Start: 60 @38872 has 3 MA's), (71, 38827),

Gene: Mysterious_43 Start: 39920, Stop: 39711, Start Num: 41

Candidate Starts for Mysterious_43:

(17, 40028), (Start: 41 @39920 has 301 MA's), (Start: 60 @39905 has 3 MA's), (71, 39860),

Gene: NHagos_38 Start: 33445, Stop: 33185, Start Num: 36

Candidate Starts for NHagos_38:

(22, 33478), (Start: 36 @33445 has 59 MA's), (Start: 60 @33403 has 3 MA's), (Start: 62 @33400 has 3 MA's), (73, 33349), (78, 33331), (86, 33304),

Gene: Nacho_0045 Start: 39197, Stop: 38982, Start Num: 41

Candidate Starts for Nacho_0045:

(17, 39299), (Start: 41 @39197 has 301 MA's), (Start: 60 @39167 has 3 MA's), (71, 39122),

Gene: Nanao_39 Start: 38170, Stop: 37964, Start Num: 42

Candidate Starts for Nanao_39:

(Start: 42 @38170 has 25 MA's), (Start: 60 @38149 has 3 MA's), (Start: 69 @38122 has 4 MA's), (71, 38104), (76, 38086), (84, 38056), (86, 38050), (90, 38029),

Gene: Nangang_43 Start: 39713, Stop: 39504, Start Num: 41

Candidate Starts for Nangang_43:

(17, 39821), (Start: 41 @39713 has 301 MA's), (Start: 60 @39698 has 3 MA's), (67, 39686),

Gene: Nathan_45 Start: 39233, Stop: 39018, Start Num: 41

Candidate Starts for Nathan_45:

(Start: 41 @39233 has 301 MA's), (Start: 60 @39203 has 3 MA's), (71, 39158), (82, 39125),

Gene: Nehemiah_43 Start: 39920, Stop: 39711, Start Num: 41

Candidate Starts for Nehemiah_43:

(17, 40028), (Start: 41 @39920 has 301 MA's), (Start: 60 @39905 has 3 MA's), (71, 39860),

Gene: Neobush_35 Start: 29354, Stop: 29118, Start Num: 51

Candidate Starts for Neobush_35:

(Start: 51 @29354 has 36 MA's), (Start: 69 @29312 has 4 MA's), (72, 29291), (81, 29249), (89, 29201), (97, 29129),

Gene: Neos5_43 Start: 39824, Stop: 39588, Start Num: 36

Candidate Starts for Neos5_43:

(Start: 36 @39824 has 59 MA's), (64, 39767), (78, 39701), (82, 39695),

Gene: Newman_45 Start: 39194, Stop: 38979, Start Num: 41

Candidate Starts for Newman_45:

(Start: 41 @39194 has 301 MA's), (Start: 60 @39164 has 3 MA's), (71, 39119), (82, 39086),

Gene: Nicole21_45 Start: 39192, Stop: 38977, Start Num: 41

Candidate Starts for Nicole21_45:

(Start: 41 @39192 has 301 MA's), (Start: 60 @39162 has 3 MA's), (71, 39117),

Gene: Nigel_39 Start: 38086, Stop: 37880, Start Num: 42

Candidate Starts for Nigel_39:

(Start: 42 @38086 has 25 MA's), (Start: 60 @38065 has 3 MA's), (Start: 69 @38038 has 4 MA's), (71, 38020), (76, 38002), (84, 37972), (86, 37966),

Gene: Nozo_43 Start: 39789, Stop: 39553, Start Num: 36
Candidate Starts for Nozo_43:
(Start: 36 @39789 has 59 MA's), (64, 39732), (78, 39666), (82, 39660),

Gene: Numberten_45 Start: 39201, Stop: 38986, Start Num: 41
Candidate Starts for Numberten_45:
(17, 39303), (Start: 41 @39201 has 301 MA's), (Start: 60 @39171 has 3 MA's), (71, 39126),

Gene: Nyala_44 Start: 38894, Stop: 38679, Start Num: 41
Candidate Starts for Nyala_44:
(17, 38996), (Start: 41 @38894 has 301 MA's), (Start: 60 @38864 has 3 MA's), (71, 38819),

Gene: Nymphadora_34 Start: 29521, Stop: 29285, Start Num: 51
Candidate Starts for Nymphadora_34:
(Start: 51 @29521 has 36 MA's), (Start: 69 @29479 has 4 MA's), (81, 29416), (89, 29368), (90, 29356),

Gene: ODay_42 Start: 31024, Stop: 30788, Start Num: 51
Candidate Starts for ODay_42:
(Start: 51 @31024 has 36 MA's), (Start: 69 @30982 has 4 MA's), (72, 30961), (81, 30919), (89, 30871),

Gene: OSmaximus_45 Start: 39236, Stop: 39021, Start Num: 41
Candidate Starts for OSmaximus_45:
(Start: 41 @39236 has 301 MA's), (Start: 60 @39206 has 3 MA's), (71, 39161), (82, 39128),

Gene: Obutu_43 Start: 39013, Stop: 38777, Start Num: 36
Candidate Starts for Obutu_43:
(Start: 36 @39013 has 59 MA's), (64, 38956), (78, 38890), (82, 38884),

Gene: Ogopogo_25 Start: 24675, Stop: 24496, Start Num: 52
Candidate Starts for Ogopogo_25:
(Start: 38 @24699 has 1 MA's), (Start: 52 @24675 has 10 MA's), (Start: 56 @24669 has 2 MA's),
(Start: 69 @24642 has 4 MA's), (76, 24609), (93, 24513),

Gene: Olak_44 Start: 38897, Stop: 38682, Start Num: 41
Candidate Starts for Olak_44:
(17, 38999), (Start: 41 @38897 has 301 MA's), (Start: 60 @38867 has 3 MA's), (71, 38822),

Gene: Oline_44 Start: 38763, Stop: 38548, Start Num: 41
Candidate Starts for Oline_44:
(17, 38865), (Start: 41 @38763 has 301 MA's), (Start: 60 @38733 has 3 MA's), (71, 38688),

Gene: Olive_45 Start: 39184, Stop: 38969, Start Num: 41
Candidate Starts for Olive_45:
(17, 39286), (Start: 41 @39184 has 301 MA's), (Start: 60 @39154 has 3 MA's), (71, 39109),

Gene: OliverWalter_45 Start: 39206, Stop: 38991, Start Num: 41
Candidate Starts for OliverWalter_45:
(Start: 41 @39206 has 301 MA's), (Start: 60 @39176 has 3 MA's), (71, 39131),

Gene: Olivio_42 Start: 38882, Stop: 38646, Start Num: 36
Candidate Starts for Olivio_42:
(Start: 36 @38882 has 59 MA's), (64, 38825), (78, 38759), (82, 38753),

Gene: Omniscient_45 Start: 39203, Stop: 38988, Start Num: 41
Candidate Starts for Omniscient_45:
(17, 39305), (Start: 41 @39203 has 301 MA's), (Start: 60 @39173 has 3 MA's), (71, 39128),

Gene: Oosterbaan_45 Start: 39194, Stop: 38979, Start Num: 41
Candidate Starts for Oosterbaan_45:
(Start: 41 @39194 has 301 MA's), (Start: 60 @39164 has 3 MA's), (71, 39119),

Gene: Opia_44 Start: 39429, Stop: 39223, Start Num: 45
Candidate Starts for Opia_44:
(Start: 45 @39429 has 34 MA's), (Start: 62 @39402 has 3 MA's), (64, 39399), (76, 39345), (85, 39312),

Gene: OrangeOswald_43 Start: 39030, Stop: 38794, Start Num: 36
Candidate Starts for OrangeOswald_43:
(Start: 36 @39030 has 59 MA's), (64, 38973), (78, 38907), (82, 38901),

Gene: Orcanus_26 Start: 19951, Stop: 19748, Start Num: 59
Candidate Starts for Orcanus_26:
(Start: 59 @19951 has 19 MA's),

Gene: Orfeu_44 Start: 38902, Stop: 38687, Start Num: 41
Candidate Starts for Orfeu_44:
(Start: 41 @38902 has 301 MA's), (Start: 60 @38872 has 3 MA's), (71, 38827), (82, 38794),

Gene: Orion_45 Start: 39192, Stop: 38977, Start Num: 41
Candidate Starts for Orion_45:
(17, 39294), (Start: 41 @39192 has 301 MA's), (Start: 60 @39162 has 3 MA's), (71, 39117),

Gene: Orwigg_44 Start: 38890, Stop: 38675, Start Num: 41
Candidate Starts for Orwigg_44:
(Start: 41 @38890 has 301 MA's), (Start: 60 @38860 has 3 MA's), (71, 38815),

Gene: OtsoOtso_26 Start: 18904, Stop: 18683, Start Num: 59
Candidate Starts for OtsoOtso_26:
(Start: 59 @18904 has 19 MA's),

Gene: PG1_45 Start: 39205, Stop: 38990, Start Num: 41
Candidate Starts for PG1_45:
(17, 39307), (Start: 41 @39205 has 301 MA's), (Start: 60 @39175 has 3 MA's), (71, 39130),

Gene: Pacifista_44 Start: 38896, Stop: 38681, Start Num: 41
Candidate Starts for Pacifista_44:
(Start: 41 @38896 has 301 MA's), (Start: 60 @38866 has 3 MA's), (71, 38821), (82, 38788),

Gene: PallasAthena_45 Start: 38907, Stop: 38692, Start Num: 41
Candidate Starts for PallasAthena_45:
(Start: 41 @38907 has 301 MA's), (Start: 60 @38877 has 3 MA's), (71, 38832), (82, 38799),

Gene: PenguinLover67_46 Start: 41013, Stop: 40795, Start Num: 41
Candidate Starts for PenguinLover67_46:
(17, 41109), (Start: 41 @41013 has 301 MA's), (Start: 60 @40980 has 3 MA's), (Start: 69 @40953 has 4 MA's), (71, 40935), (94, 40830),

Gene: Periwinkle_42 Start: 31005, Stop: 30769, Start Num: 51
Candidate Starts for Periwinkle_42:
(Start: 51 @31005 has 36 MA's), (Start: 69 @30963 has 4 MA's), (72, 30942), (81, 30900), (89, 30852),

Gene: Phabuloso_36 Start: 29262, Stop: 29026, Start Num: 51
Candidate Starts for Phabuloso_36:
(Start: 51 @29262 has 36 MA's), (Start: 69 @29220 has 4 MA's), (72, 29199), (81, 29157), (89, 29109),

Gene: Phaedrus_41 Start: 38950, Stop: 38714, Start Num: 36
Candidate Starts for Phaedrus_41:
(Start: 36 @38950 has 59 MA's), (64, 38893), (78, 38827), (82, 38821),

Gene: Phamished_45 Start: 39200, Stop: 38985, Start Num: 41
Candidate Starts for Phamished_45:
(Start: 41 @39200 has 301 MA's), (Start: 60 @39170 has 3 MA's), (71, 39125),

Gene: Phantasmagoria_44 Start: 39441, Stop: 39235, Start Num: 45
Candidate Starts for Phantasmagoria_44:
(Start: 45 @39441 has 34 MA's), (Start: 62 @39414 has 3 MA's), (64, 39411), (76, 39357), (85, 39324),

Gene: Phareon_45 Start: 38904, Stop: 38689, Start Num: 41
Candidate Starts for Phareon_45:
(Start: 41 @38904 has 301 MA's), (Start: 60 @38874 has 3 MA's), (71, 38829), (82, 38796),

Gene: PhatCats2014_45 Start: 39209, Stop: 38994, Start Num: 41
Candidate Starts for PhatCats2014_45:
(17, 39311), (Start: 41 @39209 has 301 MA's), (Start: 60 @39179 has 3 MA's), (71, 39134),

Gene: PhatLouie_45 Start: 39198, Stop: 38983, Start Num: 41
Candidate Starts for PhatLouie_45:
(Start: 41 @39198 has 301 MA's), (Start: 60 @39168 has 3 MA's), (71, 39123),

Gene: Phayeta_44 Start: 38895, Stop: 38659, Start Num: 36
Candidate Starts for Phayeta_44:
(Start: 36 @38895 has 59 MA's), (64, 38838), (78, 38772), (82, 38766),

Gene: Phelemich_43 Start: 39919, Stop: 39710, Start Num: 41
Candidate Starts for Phelemich_43:
(17, 40027), (Start: 41 @39919 has 301 MA's), (Start: 60 @39904 has 3 MA's), (71, 39859),

Gene: PhenghisKhan_44 Start: 38804, Stop: 38589, Start Num: 41
Candidate Starts for PhenghisKhan_44:
(Start: 41 @38804 has 301 MA's), (Start: 60 @38774 has 3 MA's), (71, 38729),

Gene: Pherdinand_45 Start: 39200, Stop: 38985, Start Num: 41
Candidate Starts for Pherdinand_45:
(Start: 41 @39200 has 301 MA's), (Start: 60 @39170 has 3 MA's), (71, 39125), (82, 39092),

Gene: Phergie_44 Start: 38795, Stop: 38580, Start Num: 41
Candidate Starts for Phergie_44:
(Start: 41 @38795 has 301 MA's), (Start: 60 @38765 has 3 MA's), (71, 38720),

Gene: Philly_42 Start: 38881, Stop: 38645, Start Num: 36

Candidate Starts for Philly_42:
(Start: 36 @38881 has 59 MA's), (64, 38824), (78, 38758), (82, 38752),

Gene: Phipps_45 Start: 39171, Stop: 38956, Start Num: 41
Candidate Starts for Phipps_45:
(Start: 41 @39171 has 301 MA's), (Start: 60 @39141 has 3 MA's), (71, 39096),

Gene: Phistory_39 Start: 29860, Stop: 29666, Start Num: 69
Candidate Starts for Phistory_39:
(Start: 51 @29902 has 36 MA's), (Start: 69 @29860 has 4 MA's), (72, 29839), (81, 29797), (89, 29749),

Gene: Phleuron_44 Start: 38801, Stop: 38586, Start Num: 41
Candidate Starts for Phleuron_44:
(Start: 41 @38801 has 301 MA's), (Start: 60 @38771 has 3 MA's), (71, 38726),

Gene: PhluffyCoco_26 Start: 18717, Stop: 18502, Start Num: 59
Candidate Starts for PhluffyCoco_26:
(Start: 59 @18717 has 19 MA's),

Gene: Phlyer_43 Start: 39769, Stop: 39533, Start Num: 36
Candidate Starts for Phlyer_43:
(Start: 36 @39769 has 59 MA's), (64, 39712), (78, 39646), (82, 39640),

Gene: PhrankReynolds_43 Start: 38801, Stop: 38586, Start Num: 41
Candidate Starts for PhrankReynolds_43:
(Start: 41 @38801 has 301 MA's), (Start: 60 @38771 has 3 MA's), (71, 38726),

Gene: PhrodoBaggins_44 Start: 39188, Stop: 38973, Start Num: 41
Candidate Starts for PhrodoBaggins_44:
(17, 39290), (Start: 41 @39188 has 301 MA's), (Start: 60 @39158 has 3 MA's), (71, 39113),

Gene: Phunky_45 Start: 39201, Stop: 38986, Start Num: 41
Candidate Starts for Phunky_45:
(Start: 41 @39201 has 301 MA's), (Start: 60 @39171 has 3 MA's), (71, 39126), (82, 39093),

Gene: Piglet_0044 Start: 39308, Stop: 39093, Start Num: 41
Candidate Starts for Piglet_0044:
(Start: 41 @39308 has 301 MA's), (Start: 60 @39278 has 3 MA's), (71, 39233), (82, 39200),

Gene: Pine5_39 Start: 32324, Stop: 32103, Start Num: 46
Candidate Starts for Pine5_39:
(Start: 46 @32324 has 13 MA's), (67, 32294), (Start: 69 @32279 has 4 MA's), (86, 32210),

Gene: Pineda_28 Start: 19194, Stop: 18973, Start Num: 59
Candidate Starts for Pineda_28:
(Start: 59 @19194 has 19 MA's),

Gene: PinheadLarry_45 Start: 38914, Stop: 38699, Start Num: 41
Candidate Starts for PinheadLarry_45:
(Start: 41 @38914 has 301 MA's), (Start: 60 @38884 has 3 MA's), (71, 38839), (82, 38806),

Gene: Pinkman_44 Start: 38757, Stop: 38542, Start Num: 41
Candidate Starts for Pinkman_44:

(Start: 41 @38757 has 301 MA's), (Start: 60 @38727 has 3 MA's), (71, 38682), (82, 38649),

Gene: Pipefish_45 Start: 40422, Stop: 40186, Start Num: 36

Candidate Starts for Pipefish_45:

(Start: 36 @40422 has 59 MA's), (64, 40365), (78, 40299), (82, 40293),

Gene: Pipsqueak_45 Start: 39199, Stop: 38984, Start Num: 41

Candidate Starts for Pipsqueak_45:

(Start: 41 @39199 has 301 MA's), (Start: 60 @39169 has 3 MA's), (71, 39124),

Gene: Placalicious_44 Start: 38892, Stop: 38677, Start Num: 41

Candidate Starts for Placalicious_44:

(Start: 41 @38892 has 301 MA's), (Start: 60 @38862 has 3 MA's), (71, 38817),

Gene: Plata_45 Start: 38913, Stop: 38698, Start Num: 41

Candidate Starts for Plata_45:

(17, 39015), (Start: 41 @38913 has 301 MA's), (Start: 60 @38883 has 3 MA's), (71, 38838),

Gene: Plmatters_45 Start: 39198, Stop: 38983, Start Num: 41

Candidate Starts for Plmatters_45:

(17, 39300), (Start: 41 @39198 has 301 MA's), (Start: 60 @39168 has 3 MA's), (71, 39123), (82, 39090),

Gene: Podrick_45 Start: 39189, Stop: 38974, Start Num: 41

Candidate Starts for Podrick_45:

(17, 39291), (Start: 41 @39189 has 301 MA's), (Start: 60 @39159 has 3 MA's), (71, 39114),

Gene: Polka_26 Start: 18904, Stop: 18683, Start Num: 59

Candidate Starts for Polka_26:

(Start: 59 @18904 has 19 MA's),

Gene: Polly_32 Start: 28797, Stop: 28561, Start Num: 51

Candidate Starts for Polly_32:

(Start: 51 @28797 has 36 MA's), (Start: 69 @28755 has 4 MA's), (72, 28734), (81, 28692), (89, 28644), (97, 28572),

Gene: Pollywog_25 Start: 25545, Stop: 25366, Start Num: 52

Candidate Starts for Pollywog_25:

(Start: 38 @25569 has 1 MA's), (Start: 52 @25545 has 10 MA's), (Start: 56 @25539 has 2 MA's), (Start: 69 @25512 has 4 MA's), (76, 25479), (93, 25383),

Gene: Pops_45 Start: 39213, Stop: 38998, Start Num: 41

Candidate Starts for Pops_45:

(17, 39315), (Start: 41 @39213 has 301 MA's), (Start: 60 @39183 has 3 MA's), (71, 39138), (82, 39105),

Gene: Poster_39 Start: 38171, Stop: 37965, Start Num: 42

Candidate Starts for Poster_39:

(Start: 42 @38171 has 25 MA's), (Start: 60 @38150 has 3 MA's), (Start: 69 @38123 has 4 MA's), (71, 38105), (76, 38087), (84, 38057), (86, 38051), (90, 38030),

Gene: Potter_44 Start: 38913, Stop: 38698, Start Num: 41

Candidate Starts for Potter_44:

(17, 39015), (Start: 41 @38913 has 301 MA's), (Start: 60 @38883 has 3 MA's), (71, 38838),

Gene: Prickles_45 Start: 39189, Stop: 38974, Start Num: 41

Candidate Starts for Prickles_45:

(Start: 41 @39189 has 301 MA's), (Start: 60 @39159 has 3 MA's), (71, 39114),

Gene: Prince_40 Start: 39354, Stop: 39148, Start Num: 42

Candidate Starts for Prince_40:

(Start: 42 @39354 has 25 MA's), (Start: 60 @39333 has 3 MA's), (Start: 69 @39306 has 4 MA's), (71, 39288), (76, 39270), (84, 39240), (86, 39234),

Gene: PrinceCharming_44 Start: 39549, Stop: 39343, Start Num: 45

Candidate Starts for PrinceCharming_44:

(Start: 45 @39549 has 34 MA's), (Start: 62 @39522 has 3 MA's), (64, 39519), (76, 39465), (85, 39432),

Gene: ProfessorX_45 Start: 39184, Stop: 38969, Start Num: 41

Candidate Starts for ProfessorX_45:

(17, 39286), (Start: 41 @39184 has 301 MA's), (Start: 60 @39154 has 3 MA's), (71, 39109),

Gene: Puhltonio_45 Start: 39205, Stop: 38990, Start Num: 41

Candidate Starts for Puhltonio_45:

(Start: 41 @39205 has 301 MA's), (Start: 60 @39175 has 3 MA's), (71, 39130), (82, 39097),

Gene: Purky_30 Start: 26584, Stop: 26351, Start Num: 53

Candidate Starts for Purky_30:

(23, 26659), (25, 26656), (26, 26650), (47, 26593), (Start: 53 @26584 has 4 MA's), (67, 26560), (75, 26512), (89, 26434), (91, 26419),

Gene: Purky_36 Start: 28450, Stop: 28653, Start Num: 38

Candidate Starts for Purky_36:

(Start: 38 @28450 has 1 MA's), (44, 28462), (Start: 56 @28480 has 2 MA's), (85, 28588), (88, 28600),

Gene: QueenBeane_45 Start: 39195, Stop: 38980, Start Num: 41

Candidate Starts for QueenBeane_45:

(Start: 41 @39195 has 301 MA's), (Start: 60 @39165 has 3 MA's), (71, 39120), (82, 39087),

Gene: QueenPie_39 Start: 39295, Stop: 39089, Start Num: 42

Candidate Starts for QueenPie_39:

(Start: 42 @39295 has 25 MA's), (Start: 60 @39274 has 3 MA's), (Start: 69 @39247 has 4 MA's), (71, 39229), (76, 39211), (84, 39181), (86, 39175),

Gene: Quesadilla_46 Start: 40987, Stop: 40781, Start Num: 41

Candidate Starts for Quesadilla_46:

(17, 41086), (Start: 41 @40987 has 301 MA's), (Start: 60 @40966 has 3 MA's), (71, 40921), (73, 40912),

Gene: Quisquilliae_45 Start: 39223, Stop: 39008, Start Num: 41

Candidate Starts for Quisquilliae_45:

(17, 39325), (Start: 41 @39223 has 301 MA's), (Start: 60 @39193 has 3 MA's), (71, 39148),

Gene: Qyrzula_41 Start: 39560, Stop: 39381, Start Num: 62

Candidate Starts for Qyrzula_41:

(Start: 45 @39587 has 34 MA's), (Start: 62 @39560 has 3 MA's), (64, 39557), (76, 39503), (85, 39470),

Gene: RagingRooster_43 Start: 39031, Stop: 38795, Start Num: 36
Candidate Starts for RagingRooster_43:
(Start: 36 @39031 has 59 MA's), (64, 38974), (78, 38908), (82, 38902),

Gene: RavenCo17_36 Start: 30180, Stop: 29944, Start Num: 51
Candidate Starts for RavenCo17_36:
(Start: 51 @30180 has 36 MA's), (Start: 69 @30138 has 4 MA's), (72, 30117), (81, 30075), (89, 30027),

Gene: RawrgerThat_41 Start: 39199, Stop: 38993, Start Num: 42
Candidate Starts for RawrgerThat_41:
(Start: 42 @39199 has 25 MA's), (Start: 60 @39178 has 3 MA's), (Start: 69 @39151 has 4 MA's), (71, 39133), (76, 39115), (84, 39085), (86, 39079),

Gene: RayTheFireFly_38 Start: 29870, Stop: 29667, Start Num: 68
Candidate Starts for RayTheFireFly_38:
(Start: 51 @29903 has 36 MA's), (Start: 68 @29870 has 1 MA's), (72, 29840), (80, 29807), (81, 29798), (89, 29750),

Gene: Reccee_45 Start: 39831, Stop: 39622, Start Num: 41
Candidate Starts for Reccee_45:
(15, 39945), (17, 39939), (Start: 41 @39831 has 301 MA's), (Start: 60 @39816 has 3 MA's), (67, 39804), (71, 39771),

Gene: RedFox_26 Start: 18732, Stop: 18517, Start Num: 59
Candidate Starts for RedFox_26:
(Start: 59 @18732 has 19 MA's),

Gene: RedMaple_44 Start: 39202, Stop: 38987, Start Num: 41
Candidate Starts for RedMaple_44:
(Start: 41 @39202 has 301 MA's), (Start: 60 @39172 has 3 MA's), (71, 39127), (82, 39094),

Gene: RedRaider89_46 Start: 39422, Stop: 39207, Start Num: 41
Candidate Starts for RedRaider89_46:
(Start: 41 @39422 has 301 MA's), (Start: 60 @39392 has 3 MA's), (71, 39347), (82, 39314),

Gene: Rem711_6 Start: 3521, Stop: 3279, Start Num: 48
Candidate Starts for Rem711_6:
(10, 3722), (24, 3584), (Start: 48 @3521 has 1 MA's), (74, 3443), (81, 3413), (83, 3398), (87, 3380),

Gene: Renkei_39 Start: 38205, Stop: 37999, Start Num: 42
Candidate Starts for Renkei_39:
(Start: 42 @38205 has 25 MA's), (Start: 60 @38184 has 3 MA's), (Start: 69 @38157 has 4 MA's), (71, 38139), (76, 38121), (84, 38091), (86, 38085), (90, 38064),

Gene: Reprobate_44 Start: 39924, Stop: 39715, Start Num: 41
Candidate Starts for Reprobate_44:
(17, 40032), (Start: 41 @39924 has 301 MA's), (Start: 60 @39909 has 3 MA's), (71, 39864),

Gene: Rhinoforte_44 Start: 39550, Stop: 39344, Start Num: 45
Candidate Starts for Rhinoforte_44:
(Start: 45 @39550 has 34 MA's), (Start: 62 @39523 has 3 MA's), (64, 39520), (76, 39466), (85, 39433),

Gene: Rich_42 Start: 39520, Stop: 39311, Start Num: 41

Candidate Starts for Rich_42:

(Start: 41 @39520 has 301 MA's), (Start: 60 @39505 has 3 MA's), (67, 39493), (71, 39460), (82, 39427),

Gene: Ricotta_44 Start: 38921, Stop: 38706, Start Num: 41

Candidate Starts for Ricotta_44:

(Start: 41 @38921 has 301 MA's), (Start: 60 @38891 has 3 MA's), (71, 38846), (82, 38813),

Gene: Riggan_45 Start: 39182, Stop: 38967, Start Num: 41

Candidate Starts for Riggan_45:

(Start: 41 @39182 has 301 MA's), (Start: 60 @39152 has 3 MA's), (71, 39107),

Gene: Rimu_45 Start: 38931, Stop: 38716, Start Num: 41

Candidate Starts for Rimu_45:

(Start: 41 @38931 has 301 MA's), (Start: 60 @38901 has 3 MA's), (71, 38856), (82, 38823),

Gene: Rinkes_44 Start: 40426, Stop: 40223, Start Num: 45

Candidate Starts for Rinkes_44:

(Start: 45 @40426 has 34 MA's), (71, 40363),

Gene: Rita130_44 Start: 39651, Stop: 39442, Start Num: 41

Candidate Starts for Rita130_44:

(15, 39765), (17, 39759), (Start: 41 @39651 has 301 MA's), (Start: 60 @39636 has 3 MA's), (67, 39624), (71, 39591),

Gene: Rita1961_43 Start: 39014, Stop: 38778, Start Num: 36

Candidate Starts for Rita1961_43:

(Start: 36 @39014 has 59 MA's), (64, 38957), (78, 38891), (82, 38885),

Gene: Riverton_44 Start: 39203, Stop: 38988, Start Num: 41

Candidate Starts for Riverton_44:

(Start: 41 @39203 has 301 MA's), (Start: 60 @39173 has 3 MA's), (71, 39128), (82, 39095),

Gene: Robyn_44 Start: 38766, Stop: 38551, Start Num: 41

Candidate Starts for Robyn_44:

(17, 38868), (Start: 41 @38766 has 301 MA's), (Start: 60 @38736 has 3 MA's), (71, 38691),

Gene: Roliet_45 Start: 39191, Stop: 38976, Start Num: 41

Candidate Starts for Roliet_45:

(Start: 41 @39191 has 301 MA's), (Start: 60 @39161 has 3 MA's), (71, 39116),

Gene: RomaT_43 Start: 39804, Stop: 39568, Start Num: 36

Candidate Starts for RomaT_43:

(Start: 36 @39804 has 59 MA's), (64, 39747), (78, 39681), (82, 39675),

Gene: Roscoe_46 Start: 39429, Stop: 39214, Start Num: 41

Candidate Starts for Roscoe_46:

(17, 39531), (Start: 41 @39429 has 301 MA's), (Start: 60 @39399 has 3 MA's), (71, 39354),

Gene: Rosebush_43 Start: 39530, Stop: 39351, Start Num: 62

Candidate Starts for Rosebush_43:

(Start: 45 @39557 has 34 MA's), (Start: 62 @39530 has 3 MA's), (64, 39527), (76, 39473), (85, 39440),

Gene: Roy17_45 Start: 38895, Stop: 38680, Start Num: 41

Candidate Starts for Roy17_45:

(Start: 41 @38895 has 301 MA's), (Start: 60 @38865 has 3 MA's), (71, 38820), (82, 38787),

Gene: Rubeelu_32 Start: 26751, Stop: 26518, Start Num: 53

Candidate Starts for Rubeelu_32:

(23, 26826), (25, 26823), (26, 26817), (47, 26760), (Start: 53 @26751 has 4 MA's), (67, 26727), (75, 26679), (89, 26601), (97, 26529),

Gene: SDcharge11_45 Start: 39169, Stop: 38954, Start Num: 41

Candidate Starts for SDcharge11_45:

(17, 39271), (Start: 41 @39169 has 301 MA's), (Start: 60 @39139 has 3 MA's), (71, 39094),

Gene: Sabella_43 Start: 39434, Stop: 39228, Start Num: 45

Candidate Starts for Sabella_43:

(Start: 45 @39434 has 34 MA's), (Start: 62 @39407 has 3 MA's), (64, 39404), (76, 39350), (85, 39317),

Gene: Saguaro_45 Start: 40648, Stop: 40445, Start Num: 41

Candidate Starts for Saguaro_45:

(14, 40756), (Start: 41 @40648 has 301 MA's), (71, 40585), (73, 40576), (84, 40537),

Gene: Sahara_29 Start: 25333, Stop: 25133, Start Num: 46

Candidate Starts for Sahara_29:

(Start: 46 @25333 has 13 MA's), (67, 25312), (Start: 69 @25297 has 4 MA's), (70, 25285), (82, 25249),

Gene: SallyH_45 Start: 39205, Stop: 38990, Start Num: 41

Candidate Starts for SallyH_45:

(Start: 41 @39205 has 301 MA's), (Start: 60 @39175 has 3 MA's), (71, 39130), (82, 39097),

Gene: Samaymay_45 Start: 39195, Stop: 38980, Start Num: 41

Candidate Starts for Samaymay_45:

(Start: 41 @39195 has 301 MA's), (Start: 60 @39165 has 3 MA's), (71, 39120), (82, 39087),

Gene: SassyCat97_44 Start: 38901, Stop: 38686, Start Num: 41

Candidate Starts for SassyCat97_44:

(17, 39003), (Start: 41 @38901 has 301 MA's), (Start: 60 @38871 has 3 MA's), (71, 38826),

Gene: Savage_30 Start: 25663, Stop: 25463, Start Num: 46

Candidate Starts for Savage_30:

(Start: 46 @25663 has 13 MA's), (67, 25642), (Start: 69 @25627 has 4 MA's), (70, 25615), (82, 25579),

Gene: Sbash_32 Start: 28849, Stop: 28601, Start Num: 53

Candidate Starts for Sbash_32:

(23, 28924), (25, 28921), (26, 28915), (47, 28858), (Start: 53 @28849 has 4 MA's), (67, 28825), (89, 28699), (91, 28684), (98, 28609),

Gene: Schadenfreude_44 Start: 38752, Stop: 38537, Start Num: 41

Candidate Starts for Schadenfreude_44:

(17, 38854), (Start: 41 @38752 has 301 MA's), (Start: 60 @38722 has 3 MA's), (71, 38677),

Gene: Schueller_44 Start: 38914, Stop: 38699, Start Num: 41

Candidate Starts for Schueller_44:

(Start: 41 @38914 has 301 MA's), (Start: 60 @38884 has 3 MA's), (71, 38839),

Gene: Scoot17C_45 Start: 39194, Stop: 38979, Start Num: 41

Candidate Starts for Scoot17C_45:

(17, 39296), (Start: 41 @39194 has 301 MA's), (Start: 60 @39164 has 3 MA's), (71, 39119),

Gene: Scrick_45 Start: 38919, Stop: 38704, Start Num: 41

Candidate Starts for Scrick_45:

(17, 39021), (Start: 41 @38919 has 301 MA's), (Start: 60 @38889 has 3 MA's), (71, 38844),

Gene: Selr12_45 Start: 38922, Stop: 38707, Start Num: 41

Candidate Starts for Selr12_45:

(17, 39024), (Start: 41 @38922 has 301 MA's), (Start: 60 @38892 has 3 MA's), (71, 38847),

Gene: Serendipitous_43 Start: 39478, Stop: 39269, Start Num: 41

Candidate Starts for Serendipitous_43:

(Start: 41 @39478 has 301 MA's), (Start: 60 @39463 has 3 MA's), (71, 39418),

Gene: Serendipity_45 Start: 39219, Stop: 39004, Start Num: 41

Candidate Starts for Serendipity_45:

(Start: 41 @39219 has 301 MA's), (Start: 60 @39189 has 3 MA's), (71, 39144), (82, 39111),

Gene: Serpentine_0045 Start: 39200, Stop: 38985, Start Num: 41

Candidate Starts for Serpentine_0045:

(Start: 41 @39200 has 301 MA's), (Start: 60 @39170 has 3 MA's), (71, 39125), (82, 39092),

Gene: ShadowBud_45 Start: 39220, Stop: 39005, Start Num: 41

Candidate Starts for ShadowBud_45:

(17, 39322), (Start: 41 @39220 has 301 MA's), (Start: 60 @39190 has 3 MA's), (71, 39145),

Gene: Shambre1_30 Start: 22778, Stop: 22578, Start Num: 61

Candidate Starts for Shambre1_30:

(Start: 61 @22778 has 1 MA's), (96, 22595),

Gene: Shatter_38 Start: 32837, Stop: 32601, Start Num: 31

Candidate Starts for Shatter_38:

(29, 32840), (Start: 31 @32837 has 5 MA's), (39, 32816), (Start: 42 @32810 has 25 MA's), (Start: 59 @32786 has 19 MA's), (64, 32780), (85, 32690),

Gene: ShawBrad_38 Start: 29124, Stop: 28888, Start Num: 51

Candidate Starts for ShawBrad_38:

(Start: 51 @29124 has 36 MA's), (Start: 69 @29082 has 4 MA's), (72, 29061), (81, 29019), (89, 28971),

Gene: Sheila_45 Start: 39237, Stop: 39022, Start Num: 41

Candidate Starts for Sheila_45:

(Start: 41 @39237 has 301 MA's), (Start: 60 @39207 has 3 MA's), (71, 39162), (82, 39129),

Gene: Shenandoah_43 Start: 39003, Stop: 38767, Start Num: 36

Candidate Starts for Shenandoah_43:

(Start: 36 @39003 has 59 MA's), (64, 38946), (78, 38880), (82, 38874),

Gene: Shenyu_43 Start: 39713, Stop: 39504, Start Num: 41

Candidate Starts for Shenyu_43:

(17, 39821), (Start: 41 @39713 has 301 MA's), (Start: 60 @39698 has 3 MA's), (67, 39686),

Gene: ShiVal_45 Start: 39193, Stop: 38978, Start Num: 41

Candidate Starts for ShiVal_45:

(17, 39295), (Start: 41 @39193 has 301 MA's), (Start: 60 @39163 has 3 MA's), (71, 39118),

Gene: ShroomBoi_22 Start: 24354, Stop: 24175, Start Num: 52

Candidate Starts for ShroomBoi_22:

(Start: 38 @24378 has 1 MA's), (Start: 52 @24354 has 10 MA's), (Start: 56 @24348 has 2 MA's), (67, 24336), (Start: 69 @24321 has 4 MA's), (76, 24288), (93, 24192),

Gene: Sicarius2_74 Start: 44932, Stop: 44645, Start Num: 30

Candidate Starts for Sicarius2_74:

(Start: 30 @44932 has 2 MA's), (Start: 51 @44884 has 36 MA's), (65, 44860), (99, 44653),

Gene: Sigman_45 Start: 39185, Stop: 38970, Start Num: 41

Candidate Starts for Sigman_45:

(Start: 41 @39185 has 301 MA's), (Start: 60 @39155 has 3 MA's), (71, 39110), (82, 39077),

Gene: SilverBell_45 Start: 39215, Stop: 39000, Start Num: 41

Candidate Starts for SilverBell_45:

(Start: 41 @39215 has 301 MA's), (Start: 60 @39185 has 3 MA's), (71, 39140),

Gene: Simielle_44 Start: 38888, Stop: 38673, Start Num: 41

Candidate Starts for Simielle_44:

(Start: 41 @38888 has 301 MA's), (Start: 60 @38858 has 3 MA's), (71, 38813), (82, 38780),

Gene: SirBeauregard_45 Start: 38892, Stop: 38677, Start Num: 41

Candidate Starts for SirBeauregard_45:

(17, 38994), (Start: 41 @38892 has 301 MA's), (Start: 60 @38862 has 3 MA's), (71, 38817),

Gene: SirJeffery_44 Start: 39650, Stop: 39441, Start Num: 41

Candidate Starts for SirJeffery_44:

(15, 39764), (17, 39758), (Start: 41 @39650 has 301 MA's), (Start: 60 @39635 has 3 MA's), (67, 39623), (71, 39590),

Gene: Sisko_38 Start: 33610, Stop: 33383, Start Num: 34

Candidate Starts for Sisko_38:

(Start: 34 @33610 has 5 MA's), (79, 33493), (93, 33424),

Gene: Skippy_45 Start: 39183, Stop: 38968, Start Num: 41

Candidate Starts for Skippy_45:

(17, 39285), (Start: 41 @39183 has 301 MA's), (Start: 60 @39153 has 3 MA's), (71, 39108),

Gene: Slatt_45 Start: 39209, Stop: 38994, Start Num: 41

Candidate Starts for Slatt_45:

(Start: 41 @39209 has 301 MA's), (Start: 60 @39179 has 3 MA's), (71, 39134),

Gene: Sleepyhead_33 Start: 26741, Stop: 26493, Start Num: 51

Candidate Starts for Sleepyhead_33:

(27, 26798), (Start: 51 @26741 has 36 MA's), (Start: 62 @26723 has 3 MA's), (77, 26651), (81, 26636),

Gene: SlippinJimmy_43 Start: 39796, Stop: 39560, Start Num: 36

Candidate Starts for SlippinJimmy_43:
(Start: 36 @39796 has 59 MA's), (64, 39739), (78, 39673), (82, 39667),

Gene: Soile_45 Start: 38912, Stop: 38697, Start Num: 41
Candidate Starts for Soile_45:
(Start: 41 @38912 has 301 MA's), (Start: 60 @38882 has 3 MA's), (71, 38837), (82, 38804),

Gene: Solosis_44 Start: 38910, Stop: 38695, Start Num: 41
Candidate Starts for Solosis_44:
(Start: 41 @38910 has 301 MA's), (Start: 60 @38880 has 3 MA's), (71, 38835), (82, 38802),

Gene: Sonali_32 Start: 30335, Stop: 30120, Start Num: 58
Candidate Starts for Sonali_32:
(Start: 58 @30335 has 3 MA's),

Gene: Sophia_44 Start: 38910, Stop: 38695, Start Num: 41
Candidate Starts for Sophia_44:
(Start: 41 @38910 has 301 MA's), (Start: 60 @38880 has 3 MA's), (71, 38835),

Gene: Soto_45 Start: 39203, Stop: 38988, Start Num: 41
Candidate Starts for Soto_45:
(Start: 41 @39203 has 301 MA's), (Start: 60 @39173 has 3 MA's), (71, 39128),

Gene: Sour_43 Start: 37566, Stop: 37306, Start Num: 36
Candidate Starts for Sour_43:
(Start: 36 @37566 has 59 MA's), (64, 37515),

Gene: Spartan300_45 Start: 39189, Stop: 38974, Start Num: 41
Candidate Starts for Spartan300_45:
(17, 39291), (Start: 41 @39189 has 301 MA's), (Start: 60 @39159 has 3 MA's), (71, 39114),

Gene: Spooky_39 Start: 29741, Stop: 29508, Start Num: 60
Candidate Starts for Spooky_39:
(33, 29801), (Start: 42 @29771 has 25 MA's), (Start: 60 @29741 has 3 MA's), (Start: 62 @29738 has 3 MA's), (Start: 68 @29723 has 1 MA's), (95, 29549), (96, 29543),

Gene: Sproutie_30 Start: 25663, Stop: 25463, Start Num: 46
Candidate Starts for Sproutie_30:
(Start: 46 @25663 has 13 MA's), (67, 25642), (Start: 69 @25627 has 4 MA's), (70, 25615), (82, 25579),

Gene: Squid_45 Start: 38901, Stop: 38686, Start Num: 41
Candidate Starts for Squid_45:
(17, 39003), (Start: 41 @38901 has 301 MA's), (Start: 60 @38871 has 3 MA's), (71, 38826),

Gene: Squiddly_40 Start: 31125, Stop: 30892, Start Num: 60
Candidate Starts for Squiddly_40:
(33, 31185), (Start: 42 @31155 has 25 MA's), (Start: 60 @31125 has 3 MA's), (Start: 62 @31122 has 3 MA's), (Start: 68 @31107 has 1 MA's), (95, 30933), (96, 30927),

Gene: Squiggle_45 Start: 38913, Stop: 38698, Start Num: 41
Candidate Starts for Squiggle_45:
(17, 39015), (Start: 41 @38913 has 301 MA's), (Start: 60 @38883 has 3 MA's), (71, 38838),

Gene: Stinger_39 Start: 37776, Stop: 37570, Start Num: 42
Candidate Starts for Stinger_39:
(Start: 42 @37776 has 25 MA's), (Start: 60 @37755 has 3 MA's), (64, 37749), (Start: 69 @37728 has 4 MA's), (71, 37710), (76, 37692), (84, 37662), (85, 37659), (86, 37656),

Gene: StinkyVeggy_45 Start: 39790, Stop: 39581, Start Num: 41
Candidate Starts for StinkyVeggy_45:
(17, 39898), (Start: 41 @39790 has 301 MA's), (Start: 60 @39775 has 3 MA's), (67, 39763),

Gene: Struggle_44 Start: 38751, Stop: 38536, Start Num: 41
Candidate Starts for Struggle_44:
(17, 38853), (Start: 41 @38751 has 301 MA's), (Start: 60 @38721 has 3 MA's), (71, 38676),

Gene: Stuck_40 Start: 31182, Stop: 30949, Start Num: 53
Candidate Starts for Stuck_40:
(23, 31257), (25, 31254), (26, 31248), (47, 31191), (Start: 53 @31182 has 4 MA's), (67, 31158), (75, 31110), (89, 31032),

Gene: Suffolk_45 Start: 39200, Stop: 38985, Start Num: 41
Candidate Starts for Suffolk_45:
(Start: 41 @39200 has 301 MA's), (Start: 60 @39170 has 3 MA's), (71, 39125),

Gene: Suigeneris_44 Start: 39653, Stop: 39444, Start Num: 41
Candidate Starts for Suigeneris_44:
(15, 39767), (17, 39761), (Start: 41 @39653 has 301 MA's), (Start: 60 @39638 has 3 MA's), (67, 39626), (71, 39593),

Gene: Sunshine23_32 Start: 29942, Stop: 29730, Start Num: 58
Candidate Starts for Sunshine23_32:
(Start: 58 @29942 has 3 MA's),

Gene: Surely_45 Start: 39203, Stop: 38988, Start Num: 41
Candidate Starts for Surely_45:
(Start: 41 @39203 has 301 MA's), (Start: 60 @39173 has 3 MA's), (71, 39128),

Gene: Suscepit_35 Start: 29355, Stop: 29119, Start Num: 51
Candidate Starts for Suscepit_35:
(Start: 51 @29355 has 36 MA's), (Start: 69 @29313 has 4 MA's), (72, 29292), (81, 29250), (89, 29202), (97, 29130),

Gene: SwainyDoc_43 Start: 39025, Stop: 38789, Start Num: 36
Candidate Starts for SwainyDoc_43:
(Start: 36 @39025 has 59 MA's), (64, 38968), (78, 38902), (82, 38896),

Gene: Swiphy_45 Start: 39198, Stop: 38983, Start Num: 41
Candidate Starts for Swiphy_45:
(Start: 41 @39198 has 301 MA's), (Start: 60 @39168 has 3 MA's), (71, 39123),

Gene: Swish_45 Start: 39186, Stop: 38971, Start Num: 41
Candidate Starts for Swish_45:
(Start: 41 @39186 has 301 MA's), (Start: 60 @39156 has 3 MA's), (71, 39111), (82, 39078),

Gene: SynergyX_43 Start: 39031, Stop: 38795, Start Num: 36

Candidate Starts for SynergyX_43:

(Start: 36 @39031 has 59 MA's), (64, 38974), (78, 38908), (82, 38902),

Gene: TA17A_45 Start: 39424, Stop: 39218, Start Num: 45

Candidate Starts for TA17A_45:

(Start: 45 @39424 has 34 MA's), (Start: 62 @39397 has 3 MA's), (64, 39394), (76, 39340), (85, 39307),

Gene: TallGrassMM_45 Start: 38825, Stop: 38610, Start Num: 41

Candidate Starts for TallGrassMM_45:

(Start: 41 @38825 has 301 MA's), (Start: 60 @38795 has 3 MA's), (71, 38750), (82, 38717),

Gene: TaylorSipht_26 Start: 18969, Stop: 18775, Start Num: 59

Candidate Starts for TaylorSipht_26:

(Start: 59 @18969 has 19 MA's),

Gene: Tayonia_35 Start: 29354, Stop: 29118, Start Num: 51

Candidate Starts for Tayonia_35:

(Start: 51 @29354 has 36 MA's), (Start: 69 @29312 has 4 MA's), (72, 29291), (81, 29249), (89, 29201), (97, 29129),

Gene: Telesworld_44 Start: 38898, Stop: 38683, Start Num: 41

Candidate Starts for Telesworld_44:

(Start: 41 @38898 has 301 MA's), (Start: 60 @38868 has 3 MA's), (71, 38823), (82, 38790),

Gene: ThetaBob_24 Start: 24665, Stop: 24492, Start Num: 56

Candidate Starts for ThetaBob_24:

(Start: 38 @24695 has 1 MA's), (Start: 52 @24671 has 10 MA's), (Start: 56 @24665 has 2 MA's), (Start: 69 @24638 has 4 MA's), (76, 24605), (93, 24509),

Gene: Thonko_43 Start: 36961, Stop: 36752, Start Num: 40

Candidate Starts for Thonko_43:

(12, 37108), (17, 37054), (Start: 40 @36961 has 3 MA's), (67, 36931), (82, 36865),

Gene: Thora_45 Start: 39202, Stop: 38987, Start Num: 41

Candidate Starts for Thora_45:

(Start: 41 @39202 has 301 MA's), (Start: 60 @39172 has 3 MA's), (71, 39127),

Gene: ThreeOh3D2_45 Start: 39200, Stop: 38985, Start Num: 41

Candidate Starts for ThreeOh3D2_45:

(17, 39302), (Start: 41 @39200 has 301 MA's), (Start: 60 @39170 has 3 MA's), (71, 39125),

Gene: Thunderbird_44 Start: 38906, Stop: 38691, Start Num: 41

Candidate Starts for Thunderbird_44:

(17, 39008), (Start: 41 @38906 has 301 MA's), (Start: 60 @38876 has 3 MA's), (71, 38831),

Gene: TimTam_34 Start: 29521, Stop: 29285, Start Num: 51

Candidate Starts for TimTam_34:

(Start: 51 @29521 has 36 MA's), (Start: 69 @29479 has 4 MA's), (81, 29416), (89, 29368), (90, 29356),

Gene: Timmi_44 Start: 38911, Stop: 38696, Start Num: 41

Candidate Starts for Timmi_44:

(Start: 41 @38911 has 301 MA's), (Start: 60 @38881 has 3 MA's), (71, 38836), (82, 38803),

Gene: Tinciduntolum_45 Start: 39562, Stop: 39356, Start Num: 45
Candidate Starts for Tinciduntolum_45:
(Start: 45 @39562 has 34 MA's), (Start: 62 @39535 has 3 MA's), (64, 39532), (76, 39478), (85, 39445),

Gene: TinyTerror_43 Start: 39016, Stop: 38780, Start Num: 36
Candidate Starts for TinyTerror_43:
(Start: 36 @39016 has 59 MA's), (64, 38959), (78, 38893), (82, 38887),

Gene: Toad24_27 Start: 20160, Stop: 19957, Start Num: 59
Candidate Starts for Toad24_27:
(Start: 59 @20160 has 19 MA's),

Gene: TomBombadil_45 Start: 39196, Stop: 38981, Start Num: 41
Candidate Starts for TomBombadil_45:
(17, 39298), (Start: 41 @39196 has 301 MA's), (Start: 60 @39166 has 3 MA's), (71, 39121),

Gene: Tomlarah_45 Start: 39187, Stop: 38972, Start Num: 41
Candidate Starts for Tomlarah_45:
(17, 39289), (Start: 41 @39187 has 301 MA's), (Start: 60 @39157 has 3 MA's), (71, 39112),

Gene: Toni_44 Start: 38903, Stop: 38688, Start Num: 41
Candidate Starts for Toni_44:
(Start: 41 @38903 has 301 MA's), (Start: 60 @38873 has 3 MA's), (71, 38828), (82, 38795),

Gene: TooFast2Furius_47 Start: 39432, Stop: 39217, Start Num: 41
Candidate Starts for TooFast2Furius_47:
(17, 39534), (Start: 41 @39432 has 301 MA's), (Start: 60 @39402 has 3 MA's), (71, 39357),

Gene: Tooj_45 Start: 39260, Stop: 39045, Start Num: 41
Candidate Starts for Tooj_45:
(Start: 41 @39260 has 301 MA's), (Start: 60 @39230 has 3 MA's), (71, 39185),

Gene: TraderJ_40 Start: 34851, Stop: 34585, Start Num: 36
Candidate Starts for TraderJ_40:
(18, 34896), (22, 34887), (Start: 36 @34851 has 59 MA's), (Start: 60 @34803 has 3 MA's), (Start: 62 @34800 has 3 MA's), (67, 34791), (78, 34731), (86, 34704),

Gene: Tres_44 Start: 39437, Stop: 39231, Start Num: 45
Candidate Starts for Tres_44:
(Start: 45 @39437 has 34 MA's), (Start: 62 @39410 has 3 MA's), (64, 39407), (76, 39353), (85, 39320),

Gene: Triad_45 Start: 38064, Stop: 37849, Start Num: 41
Candidate Starts for Triad_45:
(Start: 41 @38064 has 301 MA's), (Start: 60 @38034 has 3 MA's), (71, 37989), (82, 37956),

Gene: True_44 Start: 38900, Stop: 38685, Start Num: 41
Candidate Starts for True_44:
(17, 39002), (Start: 41 @38900 has 301 MA's), (Start: 60 @38870 has 3 MA's), (71, 38825),

Gene: Trumpet_35 Start: 29355, Stop: 29119, Start Num: 51
Candidate Starts for Trumpet_35:
(Start: 51 @29355 has 36 MA's), (Start: 69 @29313 has 4 MA's), (72, 29292), (81, 29250), (89, 29202), (97, 29130),

Gene: Trypo_45 Start: 39196, Stop: 38981, Start Num: 41

Candidate Starts for Trypo_45:

(17, 39298), (Start: 41 @39196 has 301 MA's), (Start: 60 @39166 has 3 MA's), (71, 39121),

Gene: TuertoX_30 Start: 25663, Stop: 25463, Start Num: 46

Candidate Starts for TuertoX_30:

(Start: 46 @25663 has 13 MA's), (67, 25642), (Start: 69 @25627 has 4 MA's), (70, 25615), (82, 25579),

Gene: Tydolla_43 Start: 39765, Stop: 39529, Start Num: 36

Candidate Starts for Tydolla_43:

(Start: 36 @39765 has 59 MA's), (64, 39708), (78, 39642), (82, 39636),

Gene: TyrionL_44 Start: 38759, Stop: 38544, Start Num: 41

Candidate Starts for TyrionL_44:

(Start: 41 @38759 has 301 MA's), (Start: 60 @38729 has 3 MA's), (71, 38684), (82, 38651),

Gene: UAch1_45 Start: 39209, Stop: 38994, Start Num: 41

Candidate Starts for UAch1_45:

(Start: 41 @39209 has 301 MA's), (Start: 60 @39179 has 3 MA's), (71, 39134),

Gene: UncleHowie_45 Start: 38899, Stop: 38684, Start Num: 41

Candidate Starts for UncleHowie_45:

(17, 39001), (Start: 41 @38899 has 301 MA's), (Start: 60 @38869 has 3 MA's), (71, 38824), (82, 38791),

Gene: Usavi_45 Start: 39200, Stop: 38985, Start Num: 41

Candidate Starts for Usavi_45:

(Start: 41 @39200 has 301 MA's), (Start: 60 @39170 has 3 MA's), (71, 39125),

Gene: Vaishali24_44 Start: 38861, Stop: 38646, Start Num: 41

Candidate Starts for Vaishali24_44:

(Start: 41 @38861 has 301 MA's), (Start: 60 @38831 has 3 MA's), (71, 38786), (82, 38753),

Gene: Valjean_45 Start: 39192, Stop: 38977, Start Num: 41

Candidate Starts for Valjean_45:

(17, 39294), (Start: 41 @39192 has 301 MA's), (Start: 60 @39162 has 3 MA's), (71, 39117),

Gene: Vasanti_31 Start: 26204, Stop: 25965, Start Num: 46

Candidate Starts for Vasanti_31:

(Start: 46 @26204 has 13 MA's), (67, 26183), (Start: 69 @26168 has 4 MA's), (70, 26156), (82, 26120), (100, 25973),

Gene: Vaticameos_41 Start: 36890, Stop: 36675, Start Num: 41

Candidate Starts for Vaticameos_41:

(Start: 41 @36890 has 301 MA's), (Start: 60 @36860 has 3 MA's), (71, 36815), (82, 36782),

Gene: Veritas_44 Start: 38762, Stop: 38547, Start Num: 41

Candidate Starts for Veritas_44:

(Start: 41 @38762 has 301 MA's), (Start: 60 @38732 has 3 MA's), (71, 38687),

Gene: Vic9_00043 Start: 39943, Stop: 39737, Start Num: 45

Candidate Starts for Vic9_00043:

(Start: 45 @39943 has 34 MA's), (Start: 62 @39916 has 3 MA's), (76, 39859), (85, 39826),

Gene: Vincenzo_41 Start: 39951, Stop: 39745, Start Num: 42

Candidate Starts for Vincenzo_41:

(Start: 42 @39951 has 25 MA's), (Start: 60 @39930 has 3 MA's), (64, 39924), (Start: 69 @39903 has 4 MA's), (71, 39885), (73, 39876), (76, 39867), (84, 39837), (85, 39834), (86, 39831),

Gene: VioletZ_41 Start: 39270, Stop: 39064, Start Num: 42

Candidate Starts for VioletZ_41:

(Start: 42 @39270 has 25 MA's), (Start: 60 @39249 has 3 MA's), (Start: 69 @39222 has 4 MA's), (71, 39204), (76, 39186), (84, 39156), (86, 39150),

Gene: Virapocalypse_45 Start: 39187, Stop: 38972, Start Num: 41

Candidate Starts for Virapocalypse_45:

(Start: 41 @39187 has 301 MA's), (Start: 60 @39157 has 3 MA's), (71, 39112),

Gene: Virgeve_44 Start: 38967, Stop: 38752, Start Num: 41

Candidate Starts for Virgeve_44:

(17, 39069), (Start: 41 @38967 has 301 MA's), (Start: 60 @38937 has 3 MA's), (71, 38892),

Gene: Vista_45 Start: 39200, Stop: 38985, Start Num: 41

Candidate Starts for Vista_45:

(Start: 41 @39200 has 301 MA's), (Start: 60 @39170 has 3 MA's), (71, 39125),

Gene: Vivaldi_45 Start: 39229, Stop: 39014, Start Num: 41

Candidate Starts for Vivaldi_45:

(17, 39331), (Start: 41 @39229 has 301 MA's), (Start: 60 @39199 has 3 MA's), (71, 39154),

Gene: Vortex_45 Start: 38906, Stop: 38691, Start Num: 41

Candidate Starts for Vortex_45:

(Start: 41 @38906 has 301 MA's), (Start: 60 @38876 has 3 MA's), (71, 38831), (82, 38798),

Gene: Vulpecula_25 Start: 19383, Stop: 19186, Start Num: 50

Candidate Starts for Vulpecula_25:

(Start: 50 @19383 has 4 MA's),

Gene: Waleliano_40 Start: 39197, Stop: 38991, Start Num: 42

Candidate Starts for Waleliano_40:

(Start: 42 @39197 has 25 MA's), (Start: 60 @39176 has 3 MA's), (Start: 69 @39149 has 4 MA's), (71, 39131), (76, 39113), (84, 39083), (86, 39077),

Gene: Wallhey_44 Start: 38763, Stop: 38548, Start Num: 41

Candidate Starts for Wallhey_44:

(Start: 41 @38763 has 301 MA's), (Start: 60 @38733 has 3 MA's), (71, 38688), (82, 38655),

Gene: Waterdiva_45 Start: 39192, Stop: 38977, Start Num: 41

Candidate Starts for Waterdiva_45:

(Start: 41 @39192 has 301 MA's), (Start: 60 @39162 has 3 MA's), (71, 39117),

Gene: Weher20_45 Start: 39191, Stop: 38976, Start Num: 41

Candidate Starts for Weher20_45:

(Start: 41 @39191 has 301 MA's), (Start: 60 @39161 has 3 MA's), (71, 39116),

Gene: West99_44 Start: 39557, Stop: 39351, Start Num: 45
Candidate Starts for West99_44:
(Start: 45 @39557 has 34 MA's), (Start: 62 @39530 has 3 MA's), (64, 39527), (76, 39473), (85, 39440),

Gene: Whack_33 Start: 28160, Stop: 27924, Start Num: 51
Candidate Starts for Whack_33:
(37, 28187), (Start: 51 @28160 has 36 MA's), (83, 28040),

Gene: Whiteclaw_30 Start: 25663, Stop: 25463, Start Num: 46
Candidate Starts for Whiteclaw_30:
(Start: 46 @25663 has 13 MA's), (67, 25642), (Start: 69 @25627 has 4 MA's), (70, 25615), (82, 25579),

Gene: Whitney_42 Start: 32542, Stop: 32306, Start Num: 51
Candidate Starts for Whitney_42:
(Start: 51 @32542 has 36 MA's), (Start: 69 @32500 has 4 MA's), (72, 32479), (81, 32437), (89, 32389),

Gene: Windsor_44 Start: 38896, Stop: 38681, Start Num: 41
Candidate Starts for Windsor_44:
(17, 38998), (Start: 41 @38896 has 301 MA's), (Start: 60 @38866 has 3 MA's), (71, 38821),

Gene: Wooper_40 Start: 34857, Stop: 34591, Start Num: 36
Candidate Starts for Wooper_40:
(18, 34902), (22, 34893), (Start: 36 @34857 has 59 MA's), (Start: 60 @34809 has 3 MA's), (Start: 62 @34806 has 3 MA's), (67, 34797), (78, 34737), (86, 34710),

Gene: Wyborn_73 Start: 45667, Stop: 45380, Start Num: 30
Candidate Starts for Wyborn_73:
(Start: 30 @45667 has 2 MA's), (Start: 51 @45619 has 36 MA's), (65, 45595), (99, 45388),

Gene: Xavier_44 Start: 38913, Stop: 38698, Start Num: 41
Candidate Starts for Xavier_44:
(Start: 41 @38913 has 301 MA's), (Start: 60 @38883 has 3 MA's), (71, 38838), (82, 38805),

Gene: Xincheng_39 Start: 38653, Stop: 38447, Start Num: 42
Candidate Starts for Xincheng_39:
(Start: 42 @38653 has 25 MA's), (Start: 60 @38632 has 3 MA's), (Start: 69 @38605 has 4 MA's), (71, 38587), (76, 38569), (84, 38539), (86, 38533),

Gene: Yago84_38 Start: 33684, Stop: 33457, Start Num: 34
Candidate Starts for Yago84_38:
(Start: 34 @33684 has 5 MA's), (79, 33567), (93, 33498),

Gene: Yahalom_43 Start: 39041, Stop: 38805, Start Num: 36
Candidate Starts for Yahalom_43:
(Start: 36 @39041 has 59 MA's), (64, 38984), (78, 38918), (82, 38912),

Gene: Yeshua_40 Start: 34834, Stop: 34568, Start Num: 36
Candidate Starts for Yeshua_40:
(18, 34879), (22, 34870), (Start: 36 @34834 has 59 MA's), (Start: 60 @34786 has 3 MA's), (Start: 62 @34783 has 3 MA's), (67, 34774), (78, 34714), (86, 34687),

Gene: Yinz_43 Start: 39067, Stop: 38831, Start Num: 36
Candidate Starts for Yinz_43:

(Start: 36 @39067 has 59 MA's), (64, 39010), (78, 38944), (82, 38938),

Gene: Yoshand_45 Start: 39199, Stop: 38984, Start Num: 41

Candidate Starts for Yoshand_45:

(Start: 41 @39199 has 301 MA's), (Start: 60 @39169 has 3 MA's), (71, 39124), (82, 39091),

Gene: Yoshi_28 Start: 24080, Stop: 23901, Start Num: 52

Candidate Starts for Yoshi_28:

(Start: 38 @24104 has 1 MA's), (Start: 52 @24080 has 10 MA's), (Start: 56 @24074 has 2 MA's),

(Start: 69 @24047 has 4 MA's), (76, 24014), (93, 23918),

Gene: YouGoGlencoco_45 Start: 39194, Stop: 38979, Start Num: 41

Candidate Starts for YouGoGlencoco_45:

(Start: 41 @39194 has 301 MA's), (Start: 60 @39164 has 3 MA's), (71, 39119),

Gene: Zaider_46 Start: 39424, Stop: 39209, Start Num: 41

Candidate Starts for Zaider_46:

(Start: 41 @39424 has 301 MA's), (Start: 60 @39394 has 3 MA's), (71, 39349),

Gene: Zameen_35 Start: 29354, Stop: 29118, Start Num: 51

Candidate Starts for Zameen_35:

(Start: 51 @29354 has 36 MA's), (Start: 69 @29312 has 4 MA's), (72, 29291), (81, 29249), (89, 29201),

(97, 29129),

Gene: Zelda_45 Start: 39241, Stop: 39026, Start Num: 41

Candidate Starts for Zelda_45:

(Start: 41 @39241 has 301 MA's), (Start: 60 @39211 has 3 MA's), (71, 39166),

Gene: Zemanar_41 Start: 39200, Stop: 38994, Start Num: 42

Candidate Starts for Zemanar_41:

(Start: 42 @39200 has 25 MA's), (Start: 60 @39179 has 3 MA's), (Start: 69 @39152 has 4 MA's), (71,

39134), (76, 39116), (84, 39086), (86, 39080),

Gene: Zenteno07_48 Start: 38553, Stop: 38338, Start Num: 43

Candidate Starts for Zenteno07_48:

(Start: 43 @38553 has 3 MA's), (Start: 60 @38529 has 3 MA's), (73, 38475), (94, 38379),

Gene: Zonia_45 Start: 39213, Stop: 38998, Start Num: 41

Candidate Starts for Zonia_45:

(Start: 41 @39213 has 301 MA's), (Start: 60 @39183 has 3 MA's), (71, 39138), (82, 39105),