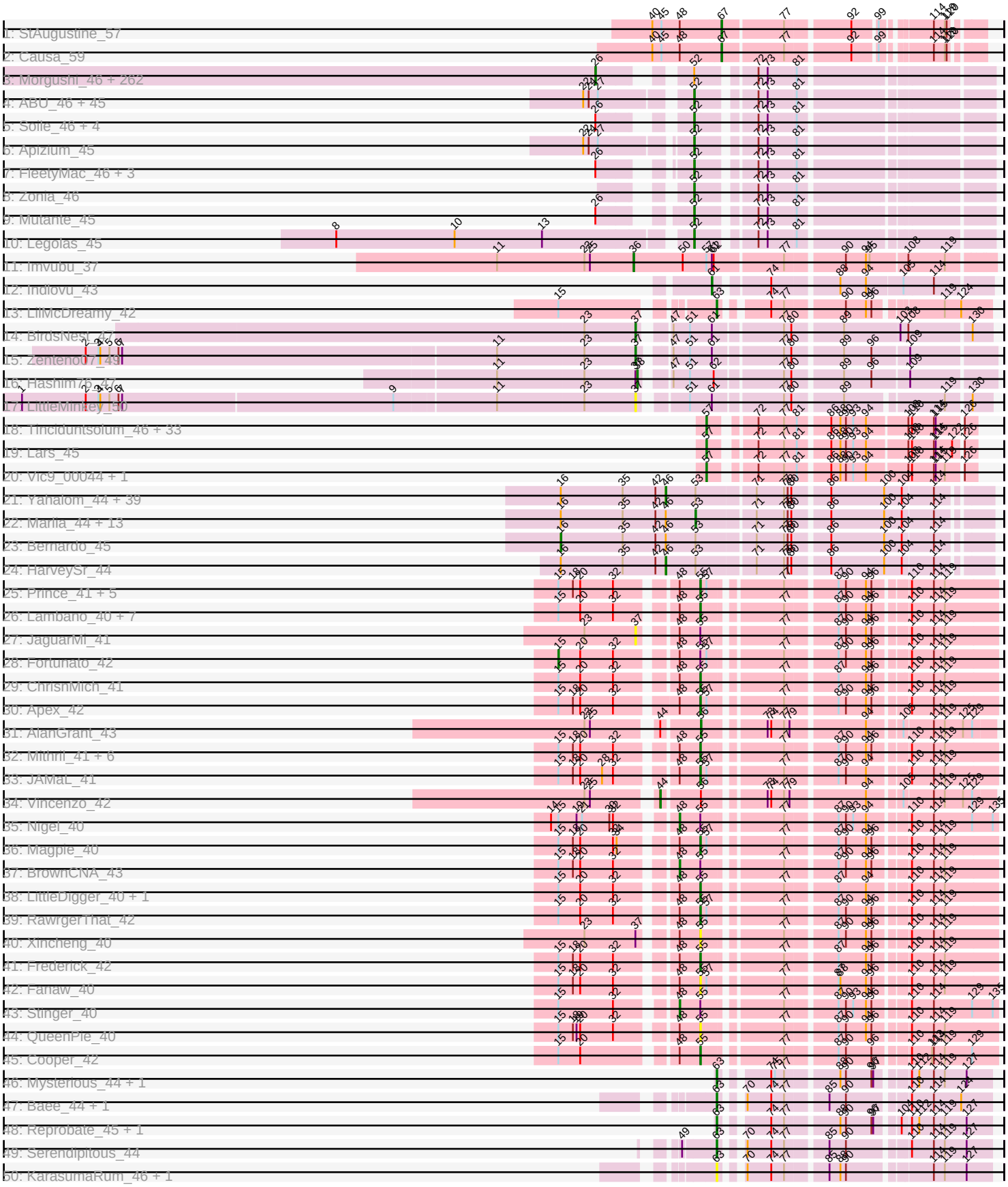
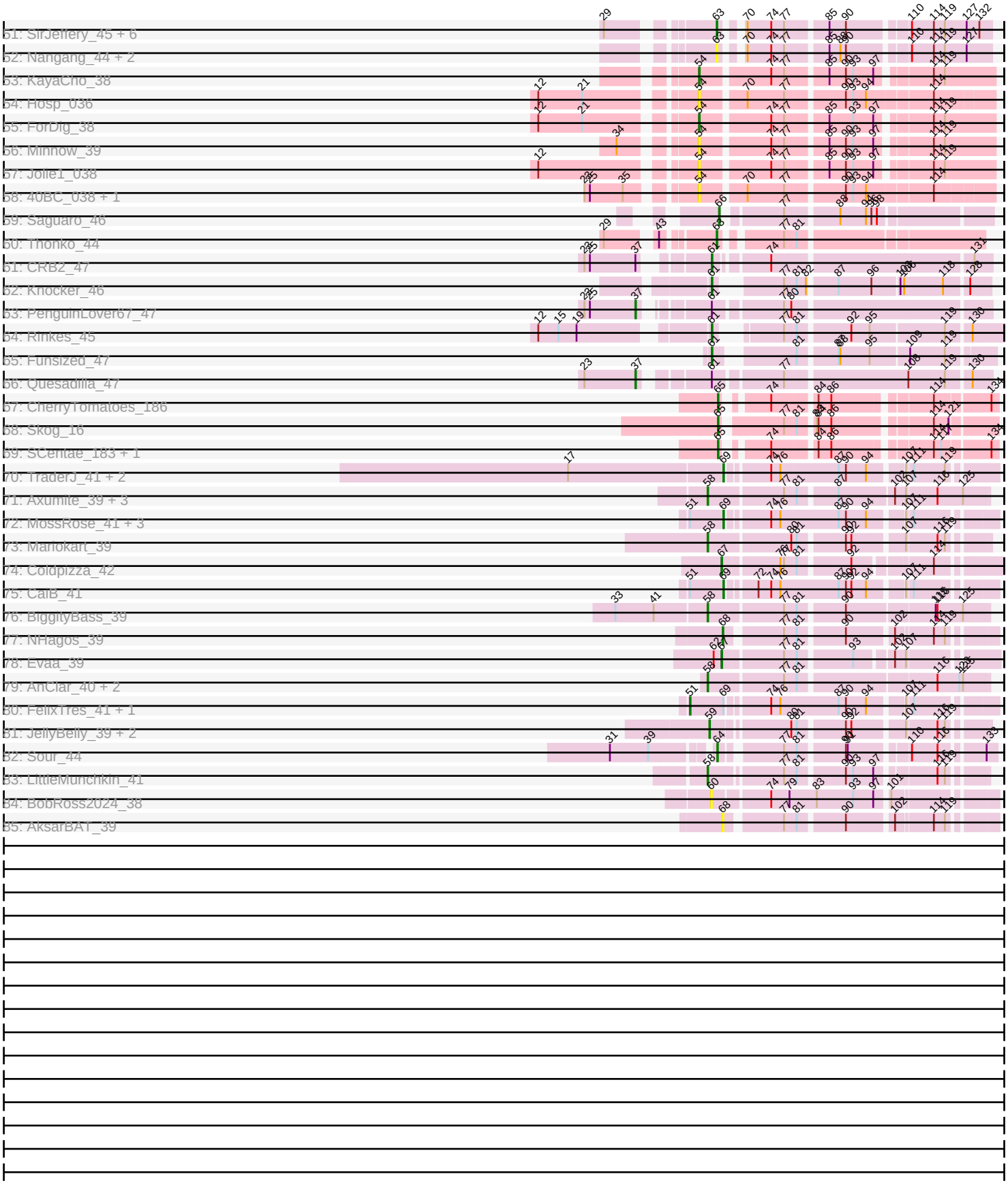
# Pham 345225


1: StAugustine_57
2: Causa_59
3: Morgushi_46 + 262
4: ABO_46 + 45
5: Solle_46 + 4
6: Apizium_45
7: FleetyMac_46 + 3
8: Zonia_46
9: Mutante_45
10: Legolas_45
11: Imvubu_37
12: Indiovu_43
13: LilMcDreamy_42
14: BirdsNest_47
15: Zentenoo7149
16: Hashim76_47
17: LittleMinney_50
18: Tincidunt solum_46 + 33
19: Lars_45
20: Vic9_00044 + 1
21: Yahalom_44 + 39
22: Marila_44 + 13
23: Bernardo_45
24: HarveySr_44
25: Prince_41 + 5
26: Lambano_40 + 7
27: JaguarMI_41
28: Fortunato_42
29: ChrishMich_41
30: Apex_42
31: AlanGrant_43
32: Mithri_41 + 6
33: JAMaL_41
34: Vincenzo_42
35: Nigel_40
36: Magpie_40
37: BrownCNA_43
38: LittleDigger_40 + 1
39: RawrgerThat_42
40: Xincheng_40
41: Frederick_42
42: Fanaw_40
43: Stinger_40
44: QueenPie_40
45: Cooper_42
46: Mysterious_44 + 1
47: Baee_44 + 1
48: Reprobate_45 + 1
49: Serendipitous_44
50: KarasumaRum_46 + 1

# Pham 345225


51: SirJeffery_45 + 6
52: Nangang_44 + 2
53: KayaCho_38
54: Hosp_036
55: ForDig_38
56: Minnow_39
57: Jolie1_038
58: 40BC_038 + 1
59: Saguaro_46
60: Thonko_44
61: CRB2_47
62: Knocker_46
63: PenguinLover67_47
64: Rinkes_45
65: Funsized_47
66: Quesadilla_47
67: CherryTomatoes_186
68: Skog_16
69: SCentae_183 + 1
70: TraderJ_41 + 2
71: Axumite_39 + 3
72: MossRose_41 + 3
73: Manokart_39
74: Coldpizza_42
75: CalB_41
76: BiggityBass_39
77: NHagos_39
78: Evaa_39
79: AnClar_40 + 2
80: FelixTres_41 + 1
81: JellyBelly_39 + 2
82: Sour_44
83: LittleMunchkin_41
84: BobRoss2024_38
85: AksarBAT_39

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 345225 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345225 has 531 members, 61 are drafts.

Phages represented in each track:
• Track 1 : StAugustine_57
• Track 2 : Causa_59
• Track 3 : Morgushi_46, TooFast2Furius_47, MiniBoss_46, Hamish_46, Spartan300_46, Bluephacebaby_45, Schadenfreude_45, Beaglebox_45, Kwadwo_45, PhenghisKhan_45, JangoPhett_46, Haleema_45, Mcshane_45, LostAndPhound_45, Eremos_46, Chute_46, Veritas_45, Timmi_45, Jesabah_46, True_45, Solosis_45, Dice_45, Lulumae_45, AbsoluteMadLad_45, Keitherie_46, PhrankReynolds_44, Telesworld_45, Colbert_46, Brilliant_46, Charles1_46, Cobra_46, UAch1_46, Quisquiliae_46, Gwennie1_46, Omniscient_46, Squiggle_46, HogWash_46, Xavier_45, Lulwa_46, Phipps_46, Wallhey_45, Jillium_45, Held_46, Vectra_45, Slatt_46, HenryJackson_45, Lumine_45, FugateOSU_45, Vaishali24_45, Roliet_46, Harvey_46, GreenChile_46, RedRaider89_47, Robyn_45, Orfeu_45, Mag7_45, Nehme_45, Khan1_45, Nyala_45, DaddyDaniels_46, Lasso_46, Valjean_46, Tooj_46, Ricotta_45, DoesntMatter_45, AltPhacts_46, Mikota_46, Gophee_46, Potter_45, KingTut_37, Piglet_0045, PallasAthena_45, CamL_46, Fozzie_45, Scrick_46, Horchata_46, FremontTroll_45, BlueHusk_46, ShadowBud_46, MRabcd_45, Happabalu_46, Puhltonio_46, AngelCake_46, Jiraiya_45, Mesh1_46, Aonishiki_46, OneBrain_47, Kahve_45, LeiMonet_46, Kimbrough_46, MrPhizzler_46, PhatLouie_46, Daka_47, Nova1_46, ShiVal_46, Oosterbaan_46, TomBombadil_46, YouGoGlencoco_46, Septica_45, Kloppinator_46, Anderson_46, HSavage_46, Labeouficaum_45, CharlieGBrown_45, Placalicious_45, Zaider_47, Cosmolli16_45, BatteryCK_45, Struggle_45, Caspiboi_45, Hekos_43, Derpp_45, FriarPreacher_45, Flake_46, Soto_46, Haimas_46, DirtJuice_46, Kwksand96_45, Zelda_46, TallGrassMM_46, EmpTee_46, SirBeauregard_46, Carthage_44, Matalotodo_46, Cannibal_46, Buckeye_46, Dione_45, Sheila_46, Riverton_46, Orwigg_45, Mesmerelda_45, Hetaeria_46, LuckyMarjie_45, Basato_47, Phleuron_45, Jbug01_46, Swiphy_46, Usavi_46, Pacifista_45, Melc17_46, Pipsqueak_46, Chaelin_46, Cher_45, Burr_45, Nathan_46, KingVeVeVe_46, Aleia_46, Megamind20_46, Chuni_46, Roscoe_47, Plata_45, Vivaldi_46, Serpentine_0046, Murdoc_46, SassyCat97_45, MichaelPhcott_45, Prickles_46, Iridoclysis_46, KLucky39_46, Simielle_45, Riggan_46, Magic8_46, DelRivs_45, Weher20_46, MitKao_46, Numberten_46, Boehler_46, Maru_45, Aelin_45, Pops_46, Rimu_46, Pinkman_45, Chunky_46, Bishoperium_45, NiaNia_48, DonSanchon_45, Triad_46, Gwilliam_46, Vortex_46, SilverBell_46, Chipette_47, Olive_46, OliverWalter_46, SDcharge11_46, Plmatters_46, Banjo_45, Kiwot_46, Oline_45, Tomlarah_46, Cornbread_45, Waterdiva_46, Karn_45, Nicole21_46, Altwerkus_45, Manad_45, JakeO_45, Giraffe_46, Hartsy_46, Iridessa_46, Jiminy_45, Freya_45,

Mosaic_45, Podrick_46, Grand2040_45, KlimbOn_46, Selr12_46, Vaticameos_42, Phunky_46, Suffolk_46, Larson_47, Roy17_46, Windsor_45, Skippy_46, Sophia_45, Lopsy_45, Coletti_46, Frankicide_46, UncleHowie_46, Eugenia_46, Duggie_45, Serendipity_46, Crownjwl_46, BoogieWoogie_46, ProfessorX_46, Kailash_46, Phergie_45, Schueller_45, Mana_45, QueenBeane_46, Thora_46, Gyarad_0046, BlacksBerry_45, Olak_45, Dingo_46, Cornobble_45, LeeLot_46, Taraxa_46, GeneCoco_46, Samaymay_46, PinheadLarry_46, Doddsville_46, Longacauda_45, Mecca_45, Thunderbird_45, Etaye_46, Virgeve_45, Toni_45, Surely_46, TyrionL_45, Vista_46, Chorkpop_46, Childish_45, Inverness_46, Virapocalypse_46, Newman_46, Hocus_45, CheetO_46, LemonSlice_46, Squid_46, Daffy_46, Phareon_46, Antonia_45, Hertubise_46

• Track 4 : ABU_46, Badfish_46, LasagnaCat_46, Katniss_46, Orion_46, Scoot17C_46, Emiris_46, Megatron_46, Swish_46, IsaacEli_46, PhatCats2014_46, CampRoach_46, JacAttac_46, Phamished_46, Morty_46, HighStump_45, SallyH_46, Fang_46, Craff_46, Maskar_45, Fringe_46, Pherdinand_46, Adriana_46, DuchessDung_44, PG1_46, RedMaple_45, DolOn_48, Mulan_45, Nacho_0046, OSmaximus_46, Inchworm_46, FluffyNinja_46, Chah_47, Yoshand_46, BlackStallion_46, ThreeOh3D2_46, Ashraf_45, ImtiyazSitla_45, PhrodoBaggins_45, Trypo_46, ElvisPhasley_46, MelsMeow_45, Kikipoo_46, Sigman_46, Durga_46, Andre_46

• Track 5 : Soile_46, Gareth_45, Lehmann_46, Salazzle_46, Azuria_45

• Track 6 : Apizium_45

• Track 7 : FleetyMac_46, EmGer13_46, JDog_45, Dati_46

• Track 8 : Zonia_46

• Track 9 : Mutante_45

• Track 10 : Legolas_45

• Track 11 : Imvubu_37

• Track 12 : Indlovu_43

• Track 13 : LilMcDreamy_42

• Track 14 : BirdsNest_47

• Track 15 : Zenteno07_49

• Track 16 : Hashim76_47

• Track 17 : LittleMinkey_50

• Track 18 : Tinciduntsolum_46, Hedgerow_45, TA17A_46, Brownie5_45, LilSmirk_45, Boyle_45, Eaglehorse_45, Arbiter_44, Ares_45, MasterPo_45, FrenchFry_45, Bananafish_45, Blocker23_45, Tres_45, Holeinone_45, Sabella_44, PrinceCharming_45, Allegro_45, Glass_45, Lephleur_45, ItsyBitsy1_45, Kheth_45, Kaleb_45, Phantasmagoria_45, LizLemon_45, Calamitous_45, Faze9_44, West99_45, Coffee_45, Kolhan_45, Godines_45, Rhinoforte_45, Rosebush_44, Opia_45

• Track 19 : Lars_45

• Track 20 : Vic9_00044, Laurie_44

• Track 21 : Yahalom_44, Nozo_44, Daisy_44, Rita1961_44, Obutu_44, Gervas_44, Philly_43, Corofin_44, Heathcliff_44, Mortcellus_43, Abinghost_44, Gadjet_45, Devonte_44, Deenasa_44, OrangeOswald_44, Compostia_45, LestyG_44, TinyTerror_44, Mulaychimus_44, SynergyX_44, Baloo_44, MmasiCarm_44, SwainyDoc_44, Chalmers_44, Kamiyu_44, Athena_45, Phlyer_44, ChaChing_44, Ben11_43, Briakila_45, Pipefish_46, Neos5_44, Glubnar_45, Yinz_44, RomaT_44, Marley1013_44, GlenHope_45, RagingRooster_44, Chentzyk_44, Kronus_43

• Track 22 : Marlia_44, Morty007_44, Halfpint_43, Chandler_44, Shenandoah_44, Jackstina_41, Olivio_43, Phayeta_45, Casbah_43, Phaedrus_42, Akoma_44, Audrey_44, Tydolla_44, SlippinJimmy_44

• Track 23 : Bernardo_45

• Track 24 : HarveySr_44
• Track 25 : Prince_41, Zemanar_42, VioletZ_42, JoyceMaria_41, Austelle_42, Lolalove_41
• Track 26 : Lambano_40, Epah_40, GinPorsche_41, Hally898_40, Antihero_40, Nanao_40, Ahwei_40, Poster_40
• Track 27 : JaguarMi_41
• Track 28 : Fortunato_42
• Track 29 : ChrisnMich_41
• Track 30 : Apex_42
• Track 31 : AlanGrant_43
• Track 32 : Mithril_41, Hydro_41, Heath_40, BobbyK_42, Waleliano_41, Mudslide_41, Hangman_41
• Track 33 : JAMaL_41
• Track 34 : Vincenzo_42
• Track 35 : Nigel_40
• Track 36 : Magpie_40
• Track 37 : BrownCNA_43
• Track 38 : LittleDigger_40, Renkei_40
• Track 39 : RawrgerThat_42
• Track 40 : Xincheng_40
• Track 41 : Frederick_42
• Track 42 : Fanaw_40
• Track 43 : Stinger_40
• Track 44 : QueenPie_40
• Track 45 : Cooper_42
• Track 46 : Mysterious_44, Nehemiah_44
• Track 47 : Baee_44, Rich_43
• Track 48 : Reprobate_45, Phelemich_44
• Track 49 : Serendipitous_44
• Track 50 : KarasumaRum_46, StinkyVeggy_46
• Track 51 : SirJeffery_45, Rita130_45, Acadian_45, Reccee_45, EastView9101_43, Donny_45, Suigeneris_45
• Track 52 : Nangang_44, Shenyu_44, DigitDog_44
• Track 53 : KayaCho_38
• Track 54 : Hosp_036
• Track 55 : ForDig_38
• Track 56 : Minnow_39
• Track 57 : Jolie1_038
• Track 58 : 40BC_038, 39HC_038
• Track 59 : Saguaro_46
• Track 60 : Thonko_44
• Track 61 : CRB2_47
• Track 62 : Knocker_46
• Track 63 : PenguinLover67_47
• Track 64 : Rinkes_45
• Track 65 : Funsized_47
• Track 66 : Quesadilla_47
• Track 67 : CherryTomatoes_186
• Track 68 : Skog_16
• Track 69 : SCentae_183, Pupper_184
• Track 70 : TraderJ_41, Yeshua_41, Wooper_41
• Track 71 : Axumite_39, Shatter_39, Ligma_39, Fresco_39
• Track 72 : MossRose_41, MakoManhole_41, AnarQue_41, Blackpen_41

• Track 73 : Mariokart_39
• Track 74 : Coldpizza_42
• Track 75 : CaiB_41
• Track 76 : BiggityBass_39
• Track 77 : NHagos_39
• Track 78 : Evaa_39
• Track 79 : AnClar_40, Yago84_39, Sisko_39
• Track 80 : FelixTres_41, CloverMinnie_41
• Track 81 : JellyBelly_39, Coco2012_39, CharlottesWeb_39
• Track 82 : Sour_44
• Track 83 : LittleMunchkin_41
• Track 84 : BobRoss2024_38
• Track 85 : AksarBAT_39

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

The start number called the most often in the published annotations is 26, it was called in 243 of the 470 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbsoluteMadLad_45, Aelin_45, Aleia_46, AltPhacts_46, Altwerkus_45, Anderson_46, AngelCake_46, Antonia_45, Aonishiki_46, Banjo_45, Basato_47, BatteryCK_45, Beaglebox_45, Bishoperium_45, BlacksBerry_45, BlueHusk_46, Bluephacebaby_45, Boehler_46, BoogieWoogie_46, Brilliant_46, Buckeye_46, Burr_45, CamL_46, Cannibal_46, Carthage_44, Caspiboi_45, Chaelin_46, Charles1_46, CharlieGBrown_45, CheetO_46, Cher_45, Childish_45, Chipette_47, Chorkpop_46, Chuni_46, Chunky_46, Chute_46, Cobra_46, Colbert_46, Coletti_46, Cornbread_45, Cornobble_45, Cosmolli16_45, Crownjwl_46, DaddyDaniels_46, Daffy_46, Daka_47, DelRivs_45, Derpp_45, Dice_45, Dingo_46, Dione_45, DirtJuice_46, Doddsville_46, DoesntMatter_45, DonSanchon_45, Duggie_45, EmpTee_46, Eremos_46, Etaye_46, Eugenia_46, Flake_46, Fozzie_45, Frankicide_46, FremontTroll_45, Freya_45, FriarPreacher_45, FugateOSU_45, GeneCoco_46, Giraffe_46, Gophee_46, Grand2040_45, GreenChile_46, Gwennie1_46, Gwilliam_46, Gyarad_0046, HSavage_46, Haimas_46, Haleema_45, Hamish_46, Happabalu_46, Hartsy_46, Harvey_46, Hekos_43, Held_46, HenryJackson_45, Hertubise_46, Hetaeria_46, Hocus_45, HogWash_46, Horchata_46, Inverness_46, Iridessa_46, Iridoclysis_46, JakeO_45, JangoPhett_46, Jbug01_46, Jesabah_46, Jillium_45, Jiminy_45, Jiraiya_45, KLucky39_46, Kahve_45, Kailash_46, Karn_45, Keitherie_46, Khan1_45, Kimbrough_46, KingTut_37, KingVeVeVe_46, Kiwot_46, KlimbOn_46, Kloppinator_46, Kwadwo_45, Kwksand96_45, Labeouficaum_45, Larson_47, Lasso_46, LeeLot_46, LeiMonet_46, LemonSlice_46, Longacauda_45, Lopsy_45, LostAndPhound_45, LuckyMarjie_45, Lulumae_45, Lulwa_46, Lumine_45, MRabcd_45, Mag7_45, Magic8_46, Mana_45, Manad_45, Maru_45, Matalotodo_46, Mcshane_45, Mecca_45, Megamind20_46, Melc17_46, Mesh1_46, Mesmerelda_45, MichaelPhcott_45, Mikota_46, MiniBoss_46, MitKao_46, Morgushi_46, Mosaic_45, MrPhizzler_46, Murdoc_46, Nathan_46, Nehme_45, Newman_46, NiaNia_48, Nicole21_46, Nova1_46, Numberten_46, Nyala_45, Olak_45, Oline_45, Olive_46, OliverWalter_46, Omniscient_46, OneBrain_47, Oosterbaan_46, Orfeu_45, Orwigg_45, Pacifista_45, PallasAthena_45, Phareon_46, PhatLouie_46, PhenghisKhan_45, Phergie_45,

Phipps_46, Phleuron_45, PhrankReynolds_44, Phunky_46, Piglet_0045, PinheadLarry_46, Pinkman_45, Pipsqueak_46, Placalicious_45, Plata_45, Plmatters_46, Podrick_46, Pops_46, Potter_45, Prickles_46, ProfessorX_46, Puhltonio_46, QueenBeane_46, Quisquiliae_46, RedRaider89_47, Ricotta_45, Riggan_46, Rimu_46, Riverton_46, Robyn_45, Roliet_46, Roscoe_47, Roy17_46, SDcharge11_46, Samaymay_46, SassyCat97_45, Schadenfreude_45, Schueller_45, Scrick_46, Selr12_46, Septica_45, Serendipity_46, Serpentine_0046, ShadowBud_46, Sheila_46, ShiVal_46, SilverBell_46, Simielle_45, SirBeauregard_46, Skippy_46, Slatt_46, Solosis_45, Sophia_45, Soto_46, Spartan300_46, Squid_46, Squiggle_46, Struggle_45, Suffolk_46, Surely_46, Swiphy_46, TallGrassMM_46, Taraxa_46, Telesworld_45, Thora_46, Thunderbird_45, Timmi_45, TomBombadil_46, Tomlarah_46, Toni_45, TooFast2Furius_47, Tooj_46, Triad_46, True_45, TyrionL_45, UAch1_46, UncleHowie_46, Usavi_46, Vaishali24_45, Valjean_46, Vaticameos_42, Vectra_45, Veritas_45, Virapocalypse_46, Virgeve_45, Vista_46, Vivaldi_46, Vortex_46, Wallhey_45, Waterdiva_46, Weher20_46, Windsor_45, Xavier_45, YouGoGlencoco_46, Zaider_47, Zelda_46,

Genes that have the "Most Annotated" start but do not call it:
• Azuria_45, Dati_46, EmGer13_46, FleetyMac_46, Gareth_45, JDog_45, Lehmann_46, Mutante_45, Salazzle_46, Soile_46,

Genes that do not have the "Most Annotated" start:
• 39HC_038, 40BC_038, ABU_46, Abinghost_44, Acadian_45, Adriana_46, Ahwei_40, Akoma_44, AksarBAT_39, AlanGrant_43, Allegro_45, AnClar_40, AnarQue_41, Andre_46, Antihero_40, Apex_42, Apizium_45, Arbiter_44, Ares_45, Ashraf_45, Athena_45, Audrey_44, Austelle_42, Axumite_39, Badfish_46, Baee_44, Baloo_44, Bananafish_45, Ben11_43, Bernardo_45, BiggityBass_39, BirdsNest_47, BlackStallion_46, Blackpen_41, Blocker23_45, BobRoss2024_38, BobbyK_42, Boyle_45, Briakila_45, BrownCNA_43, Brownie5_45, CRB2_47, CaiB_41, Calamitous_45, CampRoach_46, Casbah_43, Causa_59, ChaChing_44, Chah_47, Chalmers_44, Chandler_44, CharlottesWeb_39, Chentzyk_44, CherryTomatoes_186, ChrisnMich_41, CloverMinnie_41, Coco2012_39, Coffee_45, Coldpizza_42, Compostia_45, Cooper_42, Corofin_44, Craff_46, Daisy_44, Deenasa_44, Devonte_44, DigitDog_44, DolOn_48, Donny_45, DuchessDung_44, Durga_46, Eaglehorse_45, EastView9101_43, ElvisPhasley_46, Emiris_46, Epah_40, Evaa_39, Fanaw_40, Fang_46, Faze9_44, FelixTres_41, FluffyNinja_46, ForDig_38, Fortunato_42, Frederick_42, FrenchFry_45, Fresco_39, Fringe_46, Funsized_47, Gadjet_45, Gervas_44, GinPorsche_41, Glass_45, GlenHope_45, Glubnar_45, Godines_45, Halfpint_43, Hally898_40, Hangman_41, HarveySr_44, Hashim76_47, Heath_40, Heathcliff_44, Hedgerow_45, HighStump_45, Holeinone_45, Hosp_036, Hydro_41, ImtiyazSitla_45, Imvubu_37, Inchworm_46, Indlovu_43, IsaacEli_46, ItsyBitsy1_45, JAMaL_41, JacAttac_46, Jackstina_41, JaguarMi_41, JellyBelly_39, Jolie1_038, JoyceMaria_41, Kaleb_45, Kamiyu_44, KarasumaRum_46, Katniss_46, KayaCho_38, Kheth_45, Kikipoo_46, Knocker_46, Kolhan_45, Kronus_43, Lambano_40, Lars_45, LasagnaCat_46, Laurie_44, Legolas_45, Lephleur_45, LestyG_44, Ligma_39, LilMcDreamy_42, LilSmirk_45, LittleDigger_40, LittleMinkey_50, LittleMunchkin_41, LizLemon_45, Lolalove_41, Magpie_40, MakoManhole_41, Mariokart_39, Marley1013_44, Marlia_44, Maskar_45, MasterPo_45, Megatron_46, MelsMeow_45, Minnow_39, Mithril_41, MmasiCarm_44, Mortcellus_43, Morty007_44, Morty_46, MossRose_41, Mudslide_41, Mulan_45, Mulaychimus_44, Mysterious_44, NHagos_39, Nacho_0046, Nanao_40, Nangang_44, Nehemiah_44, Neos5_44, Nigel_40, Nozo_44, OSmaximus_46,

Obutu_44, Olivio_43, Opia_45, OrangeOswald_44, Orion_46, PG1_46, PenguinLover67_47, Phaedrus_42, Phamished_46, Phantasmagoria_45, PhatCats2014_46, Phayeta_45, Phelemich_44, Pherdinand_46, Philly_43, Phlyer_44, PhrodoBaggins_45, Pipefish_46, Poster_40, PrinceCharming_45, Prince_41, Pupper_184, QueenPie_40, Quesadilla_47, RagingRooster_44, RawrgerThat_42, Reccee_45, RedMaple_45, Renkei_40, Reprobate_45, Rhinoforte_45, Rich_43, Rinkes_45, Rita130_45, Rita1961_44, RomaT_44, Rosebush_44, SCentae_183, Sabella_44, Saguaro_46, SallyH_46, Scoot17C_46, Serendipitous_44, Shatter_39, Shenandoah_44, Shenyu_44, Sigman_46, SirJeffery_45, Sisko_39, Skog_16, SlippinJimmy_44, Sour_44, StAugustine_57, Stinger_40, StinkyVeggy_46, Suigeneris_45, SwainyDoc_44, Swish_46, SynergyX_44, TA17A_46, Thonko_44, ThreeOh3D2_46, Tinciduntsolum_46, TinyTerror_44, TraderJ_41, Tres_45, Trypo_46, Tydolla_44, Vic9_00044, Vincenzo_42, VioletZ_42, Waleliano_41, West99_45, Wooper_41, Xincheng_40, Yago84_39, Yahalom_44, Yeshua_41, Yinz_44, Yoshand_46, Zemanar_42, Zenteno07_49, Zonia_46,

**Summary by start number:**

Start 15:
• Found in 38 of 531 ( 7.2% ) of genes in pham
• Manual Annotations of this start: 1 of 470
• Called 2.6% of time when present
• Phage (with cluster) where this start called: Fortunato_42 (B4),

Start 16:
• Found in 56 of 531 ( 10.5% ) of genes in pham
• Manual Annotations of this start: 1 of 470
• Called 1.8% of time when present
• Phage (with cluster) where this start called: Bernardo_45 (B3),

Start 26:
• Found in 273 of 531 ( 51.4% ) of genes in pham
• Manual Annotations of this start: 243 of 470
• Called 96.3% of time when present
• Phage (with cluster) where this start called: AbsoluteMadLad_45 (B1), Aelin_45 (B1), Aleia_46 (B1), AltPhacts_46 (B1), Altwerkus_45 (B1), Anderson_46 (B1), AngelCake_46 (B1), Antonia_45 (B1), Aonishiki_46 (B1), Banjo_45 (B1), Basato_47 (B1), BatteryCK_45 (B1), Beaglebox_45 (B1), Bishoperium_45 (B1), BlacksBerry_45 (B1), BlueHusk_46 (B1), Bluephacebaby_45 (B1), Boehler_46 (B1), BoogieWoogie_46 (B1), Brilliant_46 (B1), Buckeye_46 (B1), Burr_45 (B1), CamL_46 (B1), Cannibal_46 (B1), Carthage_44 (B1), Caspiboi_45 (B1), Chaelin_46 (B1), Charles1_46 (B1), CharlieGBrown_45 (B1), CheetO_46 (B1), Cher_45 (B1), Childish_45 (B1), Chipette_47 (B1), Chorkpop_46 (B1), Chuni_46 (B1), Chunky_46 (B1), Chute_46 (B1), Cobra_46 (B1), Colbert_46 (B1), Coletti_46 (B1), Cornbread_45 (B1), Cornobble_45 (B1), Cosmolli16_45 (B1), Crownjwl_46 (B1), DaddyDaniels_46 (B1), Daffy_46 (B1), Daka_47 (B1), DelRivs_45 (B1), Derpp_45 (B1), Dice_45 (B1), Dingo_46 (B1), Dione_45 (B1), DirtJuice_46 (B1), Doddsville_46 (B1), DoesntMatter_45 (B1), DonSanchon_45 (B1), Duggie_45 (B1), EmpTee_46 (B1), Eremos_46 (B1), Etaye_46 (B1), Eugenia_46 (B1), Flake_46 (B1), Fozzie_45 (B1), Frankicide_46 (B1), FremontTroll_45 (B1), Freya_45 (B1), FriarPreacher_45 (B1), FugateOSU_45 (B1), GeneCoco_46 (B1), Giraffe_46 (B1), Gophee_46 (B1), Grand2040_45 (B1), GreenChile_46 (B1), Gwennie1_46 (B1), Gwilliam_46 (B1),

Gyarad_0046 (B1), HSavage_46 (B1), Haimas_46 (B1), Haleema_45 (B1), Hamish_46 (B1), Happabalu_46 (B1), Hartsy_46 (B1), Harvey_46 (B1), Hekos_43 (B1), Held_46 (B1), HenryJackson_45 (B1), Hertubise_46 (B1), Hetaeria_46 (B1), Hocus_45 (B1), HogWash_46 (B1), Horchata_46 (B1), Inverness_46 (B1), Iridessa_46 (B1), Iridoclysis_46 (B1), JakeO_45 (B1), JangoPhett_46 (B1), Jbug01_46 (B1), Jesabah_46 (B1), Jillium_45 (B1), Jiminy_45 (B1), Jiraiya_45 (B1), KLucky39_46 (B1), Kahve_45 (B1), Kailash_46 (B1), Karn_45 (B1), Keitherie_46 (B1), Khan1_45 (B1), Kimbrough_46 (B1), KingTut_37 (B1), KingVeVeVe_46 (B1), Kiwot_46 (B1), KlimbOn_46 (B1), Kloppinator_46 (B1), Kwadwo_45 (B1), Kwksand96_45 (B1), Labeouficaum_45 (B1), Larson_47 (B1), Lasso_46 (B1), LeeLot_46 (B1), LeiMonet_46 (B1), LemonSlice_46 (B1), Longacauda_45 (B1), Lopsy_45 (B1), LostAndPhound_45 (B1), LuckyMarjie_45 (B1), Lulumae_45 (B1), Lulwa_46 (B1), Lumine_45 (B1), MRabcd_45 (B1), Mag7_45 (B1), Magic8_46 (B1), Mana_45 (B1), Manad_45 (B1), Maru_45 (B1), Matalotodo_46 (B1), Mcshane_45 (B1), Mecca_45 (B1), Megamind20_46 (B1), Melc17_46 (B1), Mesh1_46 (B1), Mesmerelda_45 (B1), MichaelPhcott_45 (B1), Mikota_46 (B1), MiniBoss_46 (B1), MitKao_46 (B1), Morgushi_46 (B1), Mosaic_45 (B1), MrPhizzler_46 (B1), Murdoc_46 (B1), Nathan_46 (B1), Nehme_45 (B1), Newman_46 (B1), NiaNia_48 (B1), Nicole21_46 (B1), Nova1_46 (B1), Numberten_46 (B1), Nyala_45 (B1), Olak_45 (B1), Oline_45 (B1), Olive_46 (B1), OliverWalter_46 (B1), Omniscient_46 (B1), OneBrain_47 (B1), Oosterbaan_46 (B1), Orfeu_45 (B1), Orwigg_45 (B1), Pacifista_45 (B1), PallasAthena_45 (B1), Phareon_46 (B1), PhatLouie_46 (B1), PhenghisKhan_45 (B1), Phergie_45 (B1), Phipps_46 (B1), Phleuron_45 (B1), PhrankReynolds_44 (B1), Phunky_46 (B1), Piglet_0045 (B1), PinheadLarry_46 (B1), Pinkman_45 (B1), Pipsqueak_46 (B1), Placalicious_45 (B1), Plata_45 (B1), Plmatters_46 (B1), Podrick_46 (B1), Pops_46 (B1), Potter_45 (B1), Prickles_46 (B1), ProfessorX_46 (B1), Puhltonio_46 (B1), QueenBeane_46 (B1), Quisquiliae_46 (B1), RedRaider89_47 (B1), Ricotta_45 (B1), Riggan_46 (B1), Rimu_46 (B1), Riverton_46 (B1), Robyn_45 (B1), Roliet_46 (B1), Roscoe_47 (B1), Roy17_46 (B1), SDcharge11_46 (B1), Samaymay_46 (B1), SassyCat97_45 (B1), Schadenfreude_45 (B1), Schueller_45 (B1), Scrick_46 (B1), Selr12_46 (B1), Septica_45 (B1), Serendipity_46 (B1), Serpentine_0046 (B1), ShadowBud_46 (B1), Sheila_46 (B1), ShiVal_46 (B1), SilverBell_46 (B1), Simielle_45 (B1), SirBeauregard_46 (B1), Skippy_46 (B1), Slatt_46 (B1), Solosis_45 (B1), Sophia_45 (B1), Soto_46 (B1), Spartan300_46 (B1), Squid_46 (B1), Squiggle_46 (B1), Struggle_45 (B1), Suffolk_46 (B1), Surely_46 (B1), Swiphy_46 (B1), TallGrassMM_46 (B1), Taraxa_46 (B1), Telesworld_45 (B1), Thora_46 (B1), Thunderbird_45 (B1), Timmi_45 (B1), TomBombadil_46 (B1), Tomlarah_46 (B1), Toni_45 (B1), TooFast2Furius_47 (B1), Tooj_46 (B1), Triad_46 (B1), True_45 (B1), TyrionL_45 (B1), UAch1_46 (B1), UncleHowie_46 (B1), Usavi_46 (B1), Vaishali24_45 (B1), Valjean_46 (B1), Vaticameos_42 (B1), Vectra_45 (B1), Veritas_45 (B1), Virapocalypse_46 (B1), Virgeve_45 (B1), Vista_46 (B1), Vivaldi_46 (B1), Vortex_46 (B1), Wallhey_45 (B1), Waterdiva_46 (B1), Weher20_46 (B1), Windsor_45 (B1), Xavier_45 (B1), YouGoGlencoco_46 (B1), Zaider_47 (B1), Zelda_46 (B1),

Start 36:
• Found in 1 of 531 ( 0.2% ) of genes in pham
• Manual Annotations of this start: 1 of 470
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Imvubu_37 (B10),

Start 37:
• Found in 9 of 531 ( 1.7% ) of genes in pham

• Manual Annotations of this start: 4 of 470
• Called 66.7% of time when present
• Phage (with cluster) where this start called: BirdsNest_47 (B13), JaguarMi_41 (B4), LittleMinkey_50 (B13), PenguinLover67_47 (B9), Quesadilla_47 (B9), Zenteno07_49 (B13),

Start 38:
• Found in 1 of 531 ( 0.2% ) of genes in pham
• Manual Annotations of this start: 1 of 470
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hashim76_47 (B13),

Start 44:
• Found in 2 of 531 ( 0.4% ) of genes in pham
• Manual Annotations of this start: 1 of 470
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Vincenzo_42 (B4),

Start 46:
• Found in 56 of 531 ( 10.5% ) of genes in pham
• Manual Annotations of this start: 41 of 470
• Called 73.2% of time when present
• Phage (with cluster) where this start called: Abinghost_44 (B3), Athena_45 (B3), Baloo_44 (B3), Ben11_43 (B3), Briakila_45 (B3), ChaChing_44 (B3), Chalmers_44 (B3), Chentzyk_44 (B3), Compostia_45 (B3), Corofin_44 (B3), Daisy_44 (B3), Deenasa_44 (B3), Devonte_44 (B3), Gadjet_45 (B3), Gervas_44 (B3), GlenHope_45 (B3), Glubnar_45 (B3), HarveySr_44 (B3), Heathcliff_44 (B3), Kamiyu_44 (B3), Kronus_43 (B3), LestyG_44 (B3), Marley1013_44 (B3), MmasiCarm_44 (B3), Mortcellus_43 (B3), Mulaychimus_44 (B3), Neos5_44 (B3), Nozo_44 (B3), Obutu_44 (B3), OrangeOswald_44 (B3), Philly_43 (B3), Phlyer_44 (B3), Pipefish_46 (B3), RagingRooster_44 (B3), Rita1961_44 (B3), RomaT_44 (B3), SwainyDoc_44 (B3), SynergyX_44 (B3), TinyTerror_44 (B3), Yahalom_44 (B3), Yinz_44 (B3),

Start 48:
• Found in 40 of 531 ( 7.5% ) of genes in pham
• Manual Annotations of this start: 3 of 470
• Called 7.5% of time when present
• Phage (with cluster) where this start called: BrownCNA_43 (B4), Nigel_40 (B4), Stinger_40 (B4),

Start 51:
• Found in 11 of 531 ( 2.1% ) of genes in pham
• Manual Annotations of this start: 2 of 470
• Called 18.2% of time when present
• Phage (with cluster) where this start called: CloverMinnie_41 (DR), FelixTres_41 (DR),

Start 52:
• Found in 322 of 531 ( 60.6% ) of genes in pham
• Manual Annotations of this start: 53 of 470
• Called 18.3% of time when present
• Phage (with cluster) where this start called: ABU_46 (B1), Adriana_46 (B1), Andre_46 (B1), Apizium_45 (B1), Ashraf_45 (B1), Azuria_45 (B1), Badfish_46 (B1),

BlackStallion_46 (B1), CampRoach_46 (B1), Chah_47 (B1), Craff_46 (B1), Dati_46 (B1), DolOn_48 (B1), DuchessDung_44 (B1), Durga_46 (B1), ElvisPhasley_46 (B1), EmGer13_46 (B1), Emiris_46 (B1), Fang_46 (B1), FleetyMac_46 (B1), FluffyNinja_46 (B1), Fringe_46 (B1), Gareth_45 (B1), HighStump_45 (B1), ImtiyazSitla_45 (B1), Inchworm_46 (B1), IsaacEli_46 (B1), JDog_45 (B1), JacAttac_46 (B1), Katniss_46 (B1), Kikipoo_46 (B1), LasagnaCat_46 (B1), Legolas_45 (B1), Lehmann_46 (B1), Maskar_45 (B1), Megatron_46 (B1), MelsMeow_45 (B1), Morty_46 (B1), Mulan_45 (B1), Mutante_45 (B1), Nacho_0046 (B1), OSmaximus_46 (B1), Orion_46 (B1), PG1_46 (B1), Phamished_46 (B1), PhatCats2014_46 (B1), Pherdinand_46 (B1), PhrodoBaggins_45 (B1), RedMaple_45 (B1), Salazzle_46 (B1), SallyH_46 (B1), Scoot17C_46 (B1), Sigman_46 (B1), Soile_46 (B1), Swish_46 (B1), ThreeOh3D2_46 (B1), Trypo_46 (B1), Yoshand_46 (B1), Zonia_46 (B1),

Start 53:
• Found in 56 of 531 ( 10.5% ) of genes in pham
• Manual Annotations of this start: 11 of 470
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Akoma_44 (B3), Audrey_44 (B3), Casbah_43 (B3), Chandler_44 (B3), Halfpint_43 (B3), Jackstina_41 (B3), Marlia_44 (B3), Morty007_44 (B3), Olivio_43 (B3), Phaedrus_42 (B3), Phayeta_45 (B3), Shenandoah_44 (B3), SlippinJimmy_44 (B3), Tydolla_44 (B3),

Start 54:
• Found in 7 of 531 ( 1.3% ) of genes in pham
• Manual Annotations of this start: 2 of 470
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 39HC_038 (B6), 40BC_038 (B6), ForDig_38 (B6), Hosp_036 (B6), Jolie1_038 (B6), KayaCho_38 (B6), Minnow_39 (B6),

Start 55:
• Found in 38 of 531 ( 7.2% ) of genes in pham
• Manual Annotations of this start: 23 of 470
• Called 86.8% of time when present
• Phage (with cluster) where this start called: Ahwei_40 (B4), Antihero_40 (B4), Apex_42 (B4), Austelle_42 (B4), BobbyK_42 (B4), ChrisnMich_41 (B4), Cooper_42 (B4), Epah_40 (B4), Fanaw_40 (B4), Frederick_42 (B4), GinPorsche_41 (B4), Hally898_40 (B4), Hangman_41 (B4), Heath_40 (B4), Hydro_41 (B4), JAMaL_41 (B4), JoyceMaria_41 (B4), Lambano_40 (B4), LittleDigger_40 (B4), Lolalove_41 (B4), Magpie_40 (B4), Mithril_41 (B4), Mudslide_41 (B4), Nanao_40 (B4), Poster_40 (B4), Prince_41 (B4), QueenPie_40 (B4), RawrgerThat_42 (B4), Renkei_40 (B4), VioletZ_42 (B4), Waleliano_41 (B4), Xincheng_40 (B4), Zemanar_42 (B4),

Start 56:
• Found in 2 of 531 ( 0.4% ) of genes in pham
• Manual Annotations of this start: 1 of 470
• Called 50.0% of time when present
• Phage (with cluster) where this start called: AlanGrant_43 (B4),

Start 57:
• Found in 50 of 531 ( 9.4% ) of genes in pham
• Manual Annotations of this start: 36 of 470
• Called 74.0% of time when present

• Phage (with cluster) where this start called: Allegro_45 (B2), Arbiter_44 (B2), Ares_45 (B2), Bananafish_45 (B2), Blocker23_45 (B2), Boyle_45 (B2), Brownie5_45 (B2), Calamitous_45 (B2), Coffee_45 (B2), Eaglehorse_45 (B2), Faze9_44 (B2), FrenchFry_45 (B2), Glass_45 (B2), Godines_45 (B2), Hedgerow_45 (B2), Holeinone_45 (B2), ItsyBitsy1_45 (B2), Kaleb_45 (B2), Kheth_45 (B2), Kolhan_45 (B2), Lars_45 (B2), Laurie_44 (B2), Lephleur_45 (B2), LilSmirk_45 (B2), LizLemon_45 (B2), MasterPo_45 (B2), Opia_45 (B2), Phantasmagoria_45 (B2), PrinceCharming_45 (B2), Rhinoforte_45 (B2), Rosebush_44 (B2), Sabella_44 (B2), TA17A_46 (B2), Tinciduntsolum_46 (B2), Tres_45 (B2), Vic9_00044 (B2), West99_45 (B2),

Start 58:
• Found in 10 of 531 ( 1.9% ) of genes in pham
• Manual Annotations of this start: 10 of 470
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnClar_40 (DR), Axumite_39 (DR), BiggityBass_39 (DR), Fresco_39 (DR), Ligma_39 (DR), LittleMunchkin_41 (DR), Mariokart_39 (DR), Shatter_39 (DR), Sisko_39 (DR), Yago84_39 (DR),

Start 59:
• Found in 3 of 531 ( 0.6% ) of genes in pham
• Manual Annotations of this start: 1 of 470
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CharlottesWeb_39 (DR), Coco2012_39 (DR), JellyBelly_39 (DR),

Start 60:
• Found in 1 of 531 ( 0.2% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BobRoss2024_38 (DR),

Start 61:
• Found in 11 of 531 ( 2.1% ) of genes in pham
• Manual Annotations of this start: 5 of 470
• Called 45.5% of time when present
• Phage (with cluster) where this start called: CRB2_47 (B9), Funsized_47 (B9), Indlovu_43 (B11), Knocker_46 (B9), Rinkes_45 (B9),

Start 63:
• Found in 21 of 531 ( 4.0% ) of genes in pham
• Manual Annotations of this start: 13 of 470
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acadian_45 (B5), Baee_44 (B5), DigitDog_44 (B5), Donny_45 (B5), EastView9101_43 (B5), KarasumaRum_46 (B5), LilMcDreamy_42 (B12), Mysterious_44 (B5), Nangang_44 (B5), Nehemiah_44 (B5), Phelemich_44 (B5), Reccee_45 (B5), Reprobate_45 (B5), Rich_43 (B5), Rita130_45 (B5), Serendipitous_44 (B5), Shenyu_44 (B5), SirJeffery_45 (B5), StinkyVeggy_46 (B5), Suigeneris_45 (B5), Thonko_44 (B8),

Start 64:
• Found in 1 of 531 ( 0.2% ) of genes in pham
• Manual Annotations of this start: 1 of 470

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sour_44 (DR),

Start 65:
• Found in 4 of 531 ( 0.8% ) of genes in pham
• Manual Annotations of this start: 4 of 470
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_186 (DO), Pupper_184 (DO), SCentae_183 (DO), Skog_16 (DO),

Start 66:
• Found in 1 of 531 ( 0.2% ) of genes in pham
• Manual Annotations of this start: 1 of 470
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Saguaro_46 (B7),

Start 67:
• Found in 4 of 531 ( 0.8% ) of genes in pham
• Manual Annotations of this start: 4 of 470
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Causa_59 (AI), Coldpizza_42 (DR), Evaa_39 (DR), StAugustine_57 (AI),

Start 68:
• Found in 2 of 531 ( 0.4% ) of genes in pham
• Manual Annotations of this start: 1 of 470
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AksarBAT_39 (DR), NHagos_39 (DR),

Start 69:
• Found in 10 of 531 ( 1.9% ) of genes in pham
• Manual Annotations of this start: 6 of 470
• Called 80.0% of time when present
• Phage (with cluster) where this start called: AnarQue_41 (DR), Blackpen_41 (DR), CaiB_41 (DR), MakoManhole_41 (DR), MossRose_41 (DR), TraderJ_41 (DR), Wooper_41 (DR), Yeshua_41 (DR),

**Summary by clusters:**

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

Info for manual annotations of cluster AI:
•Start number 67 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster B1:
•Start number 26 was manually annotated 243 times for cluster B1.
•Start number 52 was manually annotated 53 times for cluster B1.

Info for manual annotations of cluster B10:
•Start number 36 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

•Start number 61 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:
•Start number 63 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:
•Start number 37 was manually annotated 2 times for cluster B13.
•Start number 38 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B2:
•Start number 57 was manually annotated 36 times for cluster B2.

Info for manual annotations of cluster B3:
•Start number 16 was manually annotated 1 time for cluster B3.
•Start number 46 was manually annotated 41 times for cluster B3.
•Start number 53 was manually annotated 11 times for cluster B3.

Info for manual annotations of cluster B4:
•Start number 15 was manually annotated 1 time for cluster B4.
•Start number 44 was manually annotated 1 time for cluster B4.
•Start number 48 was manually annotated 3 times for cluster B4.
•Start number 55 was manually annotated 23 times for cluster B4.
•Start number 56 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:
•Start number 63 was manually annotated 11 times for cluster B5.

Info for manual annotations of cluster B6:
•Start number 54 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:
•Start number 66 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:
•Start number 63 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:
•Start number 37 was manually annotated 2 times for cluster B9.
•Start number 61 was manually annotated 4 times for cluster B9.

Info for manual annotations of cluster DO:
•Start number 65 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DR:
•Start number 51 was manually annotated 2 times for cluster DR.
•Start number 58 was manually annotated 10 times for cluster DR.
•Start number 59 was manually annotated 1 time for cluster DR.
•Start number 64 was manually annotated 1 time for cluster DR.
•Start number 67 was manually annotated 2 times for cluster DR.
•Start number 68 was manually annotated 1 time for cluster DR.
•Start number 69 was manually annotated 6 times for cluster DR.

### *Gene Information:*

Gene: 39HC_038 Start: 37421, Stop: 36984, Start Num: 54
Candidate Starts for 39HC_038:
(23, 37574), (25, 37565), (35, 37511), (Start: 54 @37421 has 2 MA's), (70, 37355), (77, 37295), (90, 37208), (93, 37196), (94, 37175), (114, 37076),

Gene: 40BC_038 Start: 37421, Stop: 36984, Start Num: 54
Candidate Starts for 40BC_038:
(23, 37574), (25, 37565), (35, 37511), (Start: 54 @37421 has 2 MA's), (70, 37355), (77, 37295), (90, 37208), (93, 37196), (94, 37175), (114, 37076),

Gene: ABU_46 Start: 39612, Stop: 39187, Start Num: 52
Candidate Starts for ABU_46:
(22, 39762), (24, 39753), (27, 39738), (Start: 52 @39612 has 53 MA's), (72, 39534), (73, 39519), (81, 39474),

Gene: Abinghost_44 Start: 39509, Stop: 39024, Start Num: 46
Candidate Starts for Abinghost_44:
(Start: 16 @39680 has 1 MA's), (35, 39578), (42, 39524), (Start: 46 @39509 has 41 MA's), (Start: 53 @39461 has 11 MA's), (71, 39371), (77, 39326), (78, 39320), (80, 39314), (86, 39263), (100, 39176), (104, 39152), (114, 39104),

Gene: AbsoluteMadLad_45 Start: 39726, Stop: 39196, Start Num: 26
Candidate Starts for AbsoluteMadLad_45:
(Start: 26 @39726 has 243 MA's), (Start: 52 @39621 has 53 MA's), (72, 39543), (73, 39528), (81, 39483),

Gene: Acadian_45 Start: 40034, Stop: 39648, Start Num: 63
Candidate Starts for Acadian_45:
(29, 40172), (Start: 63 @40034 has 13 MA's), (70, 40013), (74, 39974), (77, 39953), (85, 39893), (90, 39866), (110, 39779), (114, 39743), (119, 39725), (127, 39689), (132, 39668),

Gene: Adriana_46 Start: 39610, Stop: 39185, Start Num: 52
Candidate Starts for Adriana_46:
(22, 39760), (24, 39751), (27, 39736), (Start: 52 @39610 has 53 MA's), (72, 39532), (73, 39517), (81, 39472),

Gene: Aelin_45 Start: 39278, Stop: 38751, Start Num: 26
Candidate Starts for Aelin_45:
(Start: 26 @39278 has 243 MA's), (Start: 52 @39176 has 53 MA's), (72, 39098), (73, 39083), (81, 39038),

Gene: Ahwei_40 Start: 38593, Stop: 38168, Start Num: 55
Candidate Starts for Ahwei_40:
(Start: 15 @38797 has 1 MA's), (20, 38761), (32, 38707), (Start: 48 @38626 has 3 MA's), (Start: 55 @38593 has 23 MA's), (77, 38485), (87, 38410), (90, 38398), (94, 38365), (96, 38356), (110, 38308), (114, 38272), (119, 38254),

Gene: Akoma_44 Start: 39465, Stop: 39028, Start Num: 53
Candidate Starts for Akoma_44:
(Start: 16 @39684 has 1 MA's), (35, 39582), (42, 39528), (Start: 46 @39513 has 41 MA's), (Start: 53 @39465 has 11 MA's), (71, 39375), (77, 39330), (78, 39324), (80, 39318), (86, 39267), (100, 39180),

(104, 39156), (114, 39108),

Gene: AksarBAT_39 Start: 33818, Stop: 33444, Start Num: 68
Candidate Starts for AksarBAT_39:
(Start: 68 @33818 has 1 MA's), (77, 33737), (81, 33719), (90, 33650), (102, 33581), (114, 33530), (119, 33512),

Gene: AlanGrant_43 Start: 40379, Stop: 39954, Start Num: 56
Candidate Starts for AlanGrant_43:
(23, 40535), (25, 40526), (Start: 44 @40436 has 1 MA's), (Start: 56 @40379 has 1 MA's), (73, 40292), (74, 40286), (77, 40265), (79, 40256), (94, 40145), (105, 40097), (114, 40052), (119, 40034), (125, 40004), (129, 39989),

Gene: Aleia_46 Start: 39289, Stop: 38765, Start Num: 26
Candidate Starts for Aleia_46:
(Start: 26 @39289 has 243 MA's), (Start: 52 @39190 has 53 MA's), (72, 39112), (73, 39097), (81, 39052),

Gene: Allegro_45 Start: 39852, Stop: 39463, Start Num: 57
Candidate Starts for Allegro_45:
(Start: 57 @39852 has 36 MA's), (72, 39795), (77, 39753), (81, 39732), (86, 39687), (88, 39672), (90, 39663), (93, 39651), (94, 39630), (108, 39567), (110, 39561), (114, 39525), (115, 39522), (126, 39483),

Gene: AltPhacts_46 Start: 39698, Stop: 39174, Start Num: 26
Candidate Starts for AltPhacts_46:
(Start: 26 @39698 has 243 MA's), (Start: 52 @39599 has 53 MA's), (72, 39521), (73, 39506), (81, 39461),

Gene: Altwerkus_45 Start: 39405, Stop: 38875, Start Num: 26
Candidate Starts for Altwerkus_45:
(Start: 26 @39405 has 243 MA's), (Start: 52 @39300 has 53 MA's), (72, 39222), (73, 39207), (81, 39162),

Gene: AnClar_40 Start: 36039, Stop: 35620, Start Num: 58
Candidate Starts for AnClar_40:
(Start: 58 @36039 has 10 MA's), (77, 35922), (81, 35904), (116, 35703), (123, 35667), (125, 35661),

Gene: AnarQue_41 Start: 35226, Stop: 34840, Start Num: 69
Candidate Starts for AnarQue_41:
(Start: 51 @35280 has 2 MA's), (Start: 69 @35226 has 6 MA's), (74, 35166), (76, 35151), (87, 35058), (90, 35046), (94, 35013), (107, 34965), (111, 34956),

Gene: Anderson_46 Start: 39704, Stop: 39180, Start Num: 26
Candidate Starts for Anderson_46:
(Start: 26 @39704 has 243 MA's), (Start: 52 @39605 has 53 MA's), (72, 39527), (73, 39512), (81, 39467),

Gene: Andre_46 Start: 39604, Stop: 39179, Start Num: 52
Candidate Starts for Andre_46:
(22, 39754), (24, 39745), (27, 39730), (Start: 52 @39604 has 53 MA's), (72, 39526), (73, 39511), (81, 39466),

Gene: AngelCake_46 Start: 39726, Stop: 39199, Start Num: 26
Candidate Starts for AngelCake_46:
(Start: 26 @39726 has 243 MA's), (Start: 52 @39624 has 53 MA's), (72, 39546), (73, 39531), (81, 39486),

Gene: Antihero_40 Start: 38593, Stop: 38168, Start Num: 55
Candidate Starts for Antihero_40:
(Start: 15 @38797 has 1 MA's), (20, 38761), (32, 38707), (Start: 48 @38626 has 3 MA's), (Start: 55 @38593 has 23 MA's), (77, 38485), (87, 38410), (90, 38398), (94, 38365), (96, 38356), (110, 38308), (114, 38272), (119, 38254),

Gene: Antonia_45 Start: 39278, Stop: 38751, Start Num: 26
Candidate Starts for Antonia_45:
(Start: 26 @39278 has 243 MA's), (Start: 52 @39176 has 53 MA's), (72, 39098), (73, 39083), (81, 39038),

Gene: Aonishiki_46 Start: 39747, Stop: 39223, Start Num: 26
Candidate Starts for Aonishiki_46:
(Start: 26 @39747 has 243 MA's), (Start: 52 @39648 has 53 MA's), (72, 39570), (73, 39555), (81, 39510),

Gene: Apex_42 Start: 39799, Stop: 39374, Start Num: 55
Candidate Starts for Apex_42:
(Start: 15 @40009 has 1 MA's), (18, 39985), (20, 39973), (32, 39919), (Start: 48 @39832 has 3 MA's), (Start: 55 @39799 has 23 MA's), (Start: 57 @39793 has 36 MA's), (77, 39691), (87, 39616), (90, 39604), (94, 39571), (96, 39562), (110, 39514), (114, 39478), (119, 39460),

Gene: Apizium_45 Start: 39365, Stop: 38940, Start Num: 52
Candidate Starts for Apizium_45:
(22, 39518), (24, 39509), (27, 39494), (Start: 52 @39365 has 53 MA's), (72, 39287), (73, 39272), (81, 39227),

Gene: Arbiter_44 Start: 39938, Stop: 39549, Start Num: 57
Candidate Starts for Arbiter_44:
(Start: 57 @39938 has 36 MA's), (72, 39881), (77, 39839), (81, 39818), (86, 39773), (88, 39758), (90, 39749), (93, 39737), (94, 39716), (108, 39653), (110, 39647), (114, 39611), (115, 39608), (126, 39569),

Gene: Ares_45 Start: 39922, Stop: 39533, Start Num: 57
Candidate Starts for Ares_45:
(Start: 57 @39922 has 36 MA's), (72, 39865), (77, 39823), (81, 39802), (86, 39757), (88, 39742), (90, 39733), (93, 39721), (94, 39700), (108, 39637), (110, 39631), (114, 39595), (115, 39592), (126, 39553),

Gene: Ashraf_45 Start: 39169, Stop: 38744, Start Num: 52
Candidate Starts for Ashraf_45:
(22, 39319), (24, 39310), (27, 39295), (Start: 52 @39169 has 53 MA's), (72, 39091), (73, 39076), (81, 39031),

Gene: Athena_45 Start: 40260, Stop: 39775, Start Num: 46
Candidate Starts for Athena_45:
(Start: 16 @40431 has 1 MA's), (35, 40329), (42, 40275), (Start: 46 @40260 has 41 MA's), (Start: 53 @40212 has 11 MA's), (71, 40122), (77, 40077), (78, 40071), (80, 40065), (86, 40014), (100, 39927),

(104, 39903), (114, 39855),

Gene: Audrey_44 Start: 39461, Stop: 39024, Start Num: 53
Candidate Starts for Audrey_44:
(Start: 16 @39680 has 1 MA's), (35, 39578), (42, 39524), (Start: 46 @39509 has 41 MA's), (Start: 53 @39461 has 11 MA's), (71, 39371), (77, 39326), (78, 39320), (80, 39314), (86, 39263), (100, 39176), (104, 39152), (114, 39104),

Gene: Austelle_42 Start: 40255, Stop: 39830, Start Num: 55
Candidate Starts for Austelle_42:
(Start: 15 @40459 has 1 MA's), (18, 40435), (20, 40423), (32, 40369), (Start: 48 @40288 has 3 MA's), (Start: 55 @40255 has 23 MA's), (Start: 57 @40249 has 36 MA's), (77, 40147), (87, 40072), (90, 40060), (94, 40027), (96, 40018), (110, 39970), (114, 39934), (119, 39916),

Gene: Axumite_39 Start: 33273, Stop: 32851, Start Num: 58
Candidate Starts for Axumite_39:
(Start: 58 @33273 has 10 MA's), (77, 33156), (81, 33138), (87, 33081), (102, 32994), (107, 32979), (116, 32934), (125, 32892),

Gene: Azuria_45 Start: 39627, Stop: 39202, Start Num: 52
Candidate Starts for Azuria_45:
(Start: 26 @39726 has 243 MA's), (Start: 52 @39627 has 53 MA's), (72, 39549), (73, 39534), (81, 39489),

Gene: Badfish_46 Start: 39635, Stop: 39210, Start Num: 52
Candidate Starts for Badfish_46:
(22, 39785), (24, 39776), (27, 39761), (Start: 52 @39635 has 53 MA's), (72, 39557), (73, 39542), (81, 39497),

Gene: Baee_44 Start: 39937, Stop: 39551, Start Num: 63
Candidate Starts for Baee_44:
(Start: 63 @39937 has 13 MA's), (70, 39916), (74, 39877), (77, 39856), (85, 39796), (90, 39769), (110, 39682), (114, 39646), (124, 39601),

Gene: Baloo_44 Start: 39512, Stop: 39027, Start Num: 46
Candidate Starts for Baloo_44:
(Start: 16 @39683 has 1 MA's), (35, 39581), (42, 39527), (Start: 46 @39512 has 41 MA's), (Start: 53 @39464 has 11 MA's), (71, 39374), (77, 39329), (78, 39323), (80, 39317), (86, 39266), (100, 39179), (104, 39155), (114, 39107),

Gene: Bananafish_45 Start: 39858, Stop: 39469, Start Num: 57
Candidate Starts for Bananafish_45:
(Start: 57 @39858 has 36 MA's), (72, 39801), (77, 39759), (81, 39738), (86, 39693), (88, 39678), (90, 39669), (93, 39657), (94, 39636), (108, 39573), (110, 39567), (114, 39531), (115, 39528), (126, 39489),

Gene: Banjo_45 Start: 39409, Stop: 38885, Start Num: 26
Candidate Starts for Banjo_45:
(Start: 26 @39409 has 243 MA's), (Start: 52 @39310 has 53 MA's), (72, 39232), (73, 39217), (81, 39172),

Gene: Basato_47 Start: 39988, Stop: 39464, Start Num: 26
Candidate Starts for Basato_47:

(Start: 26 @39988 has 243 MA's), (Start: 52 @39889 has 53 MA's), (72, 39811), (73, 39796), (81, 39751),

Gene: BatteryCK_45 Start: 39331, Stop: 38804, Start Num: 26
Candidate Starts for BatteryCK_45:
(Start: 26 @39331 has 243 MA's), (Start: 52 @39229 has 53 MA's), (72, 39151), (73, 39136), (81, 39091),

Gene: Beaglebox_45 Start: 39430, Stop: 38906, Start Num: 26
Candidate Starts for Beaglebox_45:
(Start: 26 @39430 has 243 MA's), (Start: 52 @39331 has 53 MA's), (72, 39253), (73, 39238), (81, 39193),

Gene: Ben11_43 Start: 39331, Stop: 38846, Start Num: 46
Candidate Starts for Ben11_43:
(Start: 16 @39502 has 1 MA's), (35, 39400), (42, 39346), (Start: 46 @39331 has 41 MA's), (Start: 53 @39283 has 11 MA's), (71, 39193), (77, 39148), (78, 39142), (80, 39136), (86, 39085), (100, 38998), (104, 38974), (114, 38926),

Gene: Bernardo_45 Start: 40228, Stop: 39572, Start Num: 16
Candidate Starts for Bernardo_45:
(Start: 16 @40228 has 1 MA's), (35, 40126), (42, 40072), (Start: 46 @40057 has 41 MA's), (Start: 53 @40009 has 11 MA's), (71, 39919), (77, 39874), (78, 39868), (80, 39862), (86, 39811), (100, 39724), (104, 39700), (114, 39652),

Gene: BiggityBass_39 Start: 35501, Stop: 35082, Start Num: 58
Candidate Starts for BiggityBass_39:
(33, 35645), (41, 35582), (Start: 58 @35501 has 10 MA's), (77, 35384), (81, 35366), (90, 35297), (115, 35168), (116, 35165), (125, 35123),

Gene: BirdsNest_47 Start: 38392, Stop: 37877, Start Num: 37
Candidate Starts for BirdsNest_47:
(23, 38476), (Start: 37 @38392 has 4 MA's), (47, 38359), (Start: 51 @38332 has 2 MA's), (Start: 61 @38296 has 5 MA's), (77, 38191), (80, 38179), (89, 38107), (103, 38017), (108, 38005), (130, 37909),

Gene: Bishoperium_45 Start: 39418, Stop: 38894, Start Num: 26
Candidate Starts for Bishoperium_45:
(Start: 26 @39418 has 243 MA's), (Start: 52 @39319 has 53 MA's), (72, 39241), (73, 39226), (81, 39181),

Gene: BlackStallion_46 Start: 39621, Stop: 39196, Start Num: 52
Candidate Starts for BlackStallion_46:
(22, 39771), (24, 39762), (27, 39747), (Start: 52 @39621 has 53 MA's), (72, 39543), (73, 39528), (81, 39483),

Gene: Blackpen_41 Start: 34644, Stop: 34258, Start Num: 69
Candidate Starts for Blackpen_41:
(Start: 51 @34698 has 2 MA's), (Start: 69 @34644 has 6 MA's), (74, 34584), (76, 34569), (87, 34476), (90, 34464), (94, 34431), (107, 34383), (111, 34374),

Gene: BlacksBerry_45 Start: 39439, Stop: 38912, Start Num: 26
Candidate Starts for BlacksBerry_45:

(Start: 26 @39439 has 243 MA's), (Start: 52 @39337 has 53 MA's), (72, 39259), (73, 39244), (81, 39199),

Gene: Blocker23_45 Start: 39976, Stop: 39587, Start Num: 57
Candidate Starts for Blocker23_45:
(Start: 57 @39976 has 36 MA's), (72, 39919), (77, 39877), (81, 39856), (86, 39811), (88, 39796), (90, 39787), (93, 39775), (94, 39754), (108, 39691), (110, 39685), (114, 39649), (115, 39646), (126, 39607),

Gene: BlueHusk_46 Start: 39223, Stop: 38693, Start Num: 26
Candidate Starts for BlueHusk_46:
(Start: 26 @39223 has 243 MA's), (Start: 52 @39118 has 53 MA's), (72, 39040), (73, 39025), (81, 38980),

Gene: Bluephacebaby_45 Start: 39421, Stop: 38891, Start Num: 26
Candidate Starts for Bluephacebaby_45:
(Start: 26 @39421 has 243 MA's), (Start: 52 @39316 has 53 MA's), (72, 39238), (73, 39223), (81, 39178),

Gene: BobRoss2024_38 Start: 33364, Stop: 32954, Start Num: 60
Candidate Starts for BobRoss2024_38:
(60, 33364), (74, 33280), (79, 33250), (83, 33208), (93, 33148), (97, 33115), (101, 33097),

Gene: BobbyK_42 Start: 39624, Stop: 39199, Start Num: 55
Candidate Starts for BobbyK_42:
(Start: 15 @39828 has 1 MA's), (18, 39804), (20, 39792), (32, 39738), (Start: 48 @39657 has 3 MA's), (Start: 55 @39624 has 23 MA's), (77, 39516), (87, 39441), (90, 39429), (94, 39396), (96, 39387), (110, 39339), (114, 39303), (119, 39285),

Gene: Boehler_46 Start: 39727, Stop: 39197, Start Num: 26
Candidate Starts for Boehler_46:
(Start: 26 @39727 has 243 MA's), (Start: 52 @39622 has 53 MA's), (72, 39544), (73, 39529), (81, 39484),

Gene: BoogieWoogie_46 Start: 39408, Stop: 38878, Start Num: 26
Candidate Starts for BoogieWoogie_46:
(Start: 26 @39408 has 243 MA's), (Start: 52 @39303 has 53 MA's), (72, 39225), (73, 39210), (81, 39165),

Gene: Boyle_45 Start: 39977, Stop: 39588, Start Num: 57
Candidate Starts for Boyle_45:
(Start: 57 @39977 has 36 MA's), (72, 39920), (77, 39878), (81, 39857), (86, 39812), (88, 39797), (90, 39788), (93, 39776), (94, 39755), (108, 39692), (110, 39686), (114, 39650), (115, 39647), (126, 39608),

Gene: Briakila_45 Start: 40279, Stop: 39794, Start Num: 46
Candidate Starts for Briakila_45:
(Start: 16 @40450 has 1 MA's), (35, 40348), (42, 40294), (Start: 46 @40279 has 41 MA's), (Start: 53 @40231 has 11 MA's), (71, 40141), (77, 40096), (78, 40090), (80, 40084), (86, 40033), (100, 39946), (104, 39922), (114, 39874),

Gene: Brilliant_46 Start: 39426, Stop: 38902, Start Num: 26
Candidate Starts for Brilliant_46:

(Start: 26 @39426 has 243 MA's), (Start: 52 @39327 has 53 MA's), (72, 39249), (73, 39234), (81, 39189),

Gene: BrownCNA_43 Start: 39918, Stop: 39460, Start Num: 48
Candidate Starts for BrownCNA_43:
(Start: 15 @40089 has 1 MA's), (18, 40065), (20, 40053), (32, 39999), (Start: 48 @39918 has 3 MA's), (Start: 55 @39885 has 23 MA's), (77, 39777), (87, 39702), (90, 39690), (94, 39657), (96, 39648), (110, 39600), (114, 39564), (119, 39546),

Gene: Brownie5_45 Start: 39983, Stop: 39594, Start Num: 57
Candidate Starts for Brownie5_45:
(Start: 57 @39983 has 36 MA's), (72, 39926), (77, 39884), (81, 39863), (86, 39818), (88, 39803), (90, 39794), (93, 39782), (94, 39761), (108, 39698), (110, 39692), (114, 39656), (115, 39653), (126, 39614),

Gene: Buckeye_46 Start: 39741, Stop: 39214, Start Num: 26
Candidate Starts for Buckeye_46:
(Start: 26 @39741 has 243 MA's), (Start: 52 @39639 has 53 MA's), (72, 39561), (73, 39546), (81, 39501),

Gene: Burr_45 Start: 39415, Stop: 38891, Start Num: 26
Candidate Starts for Burr_45:
(Start: 26 @39415 has 243 MA's), (Start: 52 @39316 has 53 MA's), (72, 39238), (73, 39223), (81, 39178),

Gene: CRB2_47 Start: 42140, Stop: 41727, Start Num: 61
Candidate Starts for CRB2_47:
(23, 42299), (25, 42290), (Start: 37 @42215 has 4 MA's), (Start: 61 @42140 has 5 MA's), (74, 42065), (131, 41756),

Gene: CaiB_41 Start: 35212, Stop: 34826, Start Num: 69
Candidate Starts for CaiB_41:
(Start: 51 @35266 has 2 MA's), (Start: 69 @35212 has 6 MA's), (72, 35173), (74, 35152), (76, 35137), (87, 35044), (90, 35032), (92, 35023), (94, 34999), (107, 34951), (111, 34942),

Gene: Calamitous_45 Start: 39863, Stop: 39474, Start Num: 57
Candidate Starts for Calamitous_45:
(Start: 57 @39863 has 36 MA's), (72, 39806), (77, 39764), (81, 39743), (86, 39698), (88, 39683), (90, 39674), (93, 39662), (94, 39641), (108, 39578), (110, 39572), (114, 39536), (115, 39533), (126, 39494),

Gene: CamL_46 Start: 39716, Stop: 39192, Start Num: 26
Candidate Starts for CamL_46:
(Start: 26 @39716 has 243 MA's), (Start: 52 @39617 has 53 MA's), (72, 39539), (73, 39524), (81, 39479),

Gene: CampRoach_46 Start: 39607, Stop: 39182, Start Num: 52
Candidate Starts for CampRoach_46:
(22, 39757), (24, 39748), (27, 39733), (Start: 52 @39607 has 53 MA's), (72, 39529), (73, 39514), (81, 39469),

Gene: Cannibal_46 Start: 39699, Stop: 39175, Start Num: 26
Candidate Starts for Cannibal_46:

(Start: 26 @39699 has 243 MA's), (Start: 52 @39600 has 53 MA's), (72, 39522), (73, 39507), (81, 39462),

Gene: Carthage_44 Start: 38628, Stop: 38104, Start Num: 26
Candidate Starts for Carthage_44:
(Start: 26 @38628 has 243 MA's), (Start: 52 @38529 has 53 MA's), (72, 38451), (73, 38436), (81, 38391),

Gene: Casbah_43 Start: 39313, Stop: 38876, Start Num: 53
Candidate Starts for Casbah_43:
(Start: 16 @39532 has 1 MA's), (35, 39430), (42, 39376), (Start: 46 @39361 has 41 MA's), (Start: 53 @39313 has 11 MA's), (71, 39223), (77, 39178), (78, 39172), (80, 39166), (86, 39115), (100, 39028), (104, 39004), (114, 38956),

Gene: Caspiboi_45 Start: 39425, Stop: 38901, Start Num: 26
Candidate Starts for Caspiboi_45:
(Start: 26 @39425 has 243 MA's), (Start: 52 @39326 has 53 MA's), (72, 39248), (73, 39233), (81, 39188),

Gene: Causa_59 Start: 48193, Stop: 47834, Start Num: 67
Candidate Starts for Causa_59:
(40, 48304), (45, 48289), (Start: 48 @48259 has 3 MA's), (Start: 67 @48193 has 4 MA's), (77, 48100), (92, 48004), (99, 47968), (114, 47902), (119, 47884), (120, 47881),

Gene: ChaChing_44 Start: 39524, Stop: 39039, Start Num: 46
Candidate Starts for ChaChing_44:
(Start: 16 @39695 has 1 MA's), (35, 39593), (42, 39539), (Start: 46 @39524 has 41 MA's), (Start: 53 @39476 has 11 MA's), (71, 39386), (77, 39341), (78, 39335), (80, 39329), (86, 39278), (100, 39191), (104, 39167), (114, 39119),

Gene: Chaelin_46 Start: 39416, Stop: 38889, Start Num: 26
Candidate Starts for Chaelin_46:
(Start: 26 @39416 has 243 MA's), (Start: 52 @39314 has 53 MA's), (72, 39236), (73, 39221), (81, 39176),

Gene: Chah_47 Start: 39634, Stop: 39209, Start Num: 52
Candidate Starts for Chah_47:
(22, 39784), (24, 39775), (27, 39760), (Start: 52 @39634 has 53 MA's), (72, 39556), (73, 39541), (81, 39496),

Gene: Chalmers_44 Start: 40316, Stop: 39831, Start Num: 46
Candidate Starts for Chalmers_44:
(Start: 16 @40487 has 1 MA's), (35, 40385), (42, 40331), (Start: 46 @40316 has 41 MA's), (Start: 53 @40268 has 11 MA's), (71, 40178), (77, 40133), (78, 40127), (80, 40121), (86, 40070), (100, 39983), (104, 39959), (114, 39911),

Gene: Chandler_44 Start: 40244, Stop: 39807, Start Num: 53
Candidate Starts for Chandler_44:
(Start: 16 @40463 has 1 MA's), (35, 40361), (42, 40307), (Start: 46 @40292 has 41 MA's), (Start: 53 @40244 has 11 MA's), (71, 40154), (77, 40109), (78, 40103), (80, 40097), (86, 40046), (100, 39959), (104, 39935), (114, 39887),

Gene: Charles1_46 Start: 39701, Stop: 39177, Start Num: 26

Candidate Starts for Charles1_46:
(Start: 26 @39701 has 243 MA's), (Start: 52 @39602 has 53 MA's), (72, 39524), (73, 39509), (81, 39464),

Gene: CharlieGBrown_45 Start: 39291, Stop: 38767, Start Num: 26
Candidate Starts for CharlieGBrown_45:
(Start: 26 @39291 has 243 MA's), (Start: 52 @39192 has 53 MA's), (72, 39114), (73, 39099), (81, 39054),

Gene: CharlottesWeb_39 Start: 33161, Stop: 32775, Start Num: 59
Candidate Starts for CharlottesWeb_39:
(Start: 59 @33161 has 1 MA's), (80, 33047), (81, 33041), (90, 32972), (92, 32963), (107, 32888), (116, 32843), (119, 32831),

Gene: CheetO_46 Start: 39721, Stop: 39191, Start Num: 26
Candidate Starts for CheetO_46:
(Start: 26 @39721 has 243 MA's), (Start: 52 @39616 has 53 MA's), (72, 39538), (73, 39523), (81, 39478),

Gene: Chentzyk_44 Start: 39873, Stop: 39388, Start Num: 46
Candidate Starts for Chentzyk_44:
(Start: 16 @40044 has 1 MA's), (35, 39942), (42, 39888), (Start: 46 @39873 has 41 MA's), (Start: 53 @39825 has 11 MA's), (71, 39735), (77, 39690), (78, 39684), (80, 39678), (86, 39627), (100, 39540), (104, 39516), (114, 39468),

Gene: Cher_45 Start: 39438, Stop: 38914, Start Num: 26
Candidate Starts for Cher_45:
(Start: 26 @39438 has 243 MA's), (Start: 52 @39339 has 53 MA's), (72, 39261), (73, 39246), (81, 39201),

Gene: CherryTomatoes_186 Start: 132867, Stop: 133241, Start Num: 65
Candidate Starts for CherryTomatoes_186:
(Start: 65 @132867 has 4 MA's), (74, 132921), (84, 132984), (86, 133005), (114, 133146), (134, 133230),

Gene: Childish_45 Start: 39441, Stop: 38917, Start Num: 26
Candidate Starts for Childish_45:
(Start: 26 @39441 has 243 MA's), (Start: 52 @39342 has 53 MA's), (72, 39264), (73, 39249), (81, 39204),

Gene: Chipette_47 Start: 39931, Stop: 39407, Start Num: 26
Candidate Starts for Chipette_47:
(Start: 26 @39931 has 243 MA's), (Start: 52 @39832 has 53 MA's), (72, 39754), (73, 39739), (81, 39694),

Gene: Chorkpop_46 Start: 39437, Stop: 38913, Start Num: 26
Candidate Starts for Chorkpop_46:
(Start: 26 @39437 has 243 MA's), (Start: 52 @39338 has 53 MA's), (72, 39260), (73, 39245), (81, 39200),

Gene: ChrisnMich_41 Start: 38585, Stop: 38160, Start Num: 55
Candidate Starts for ChrisnMich_41:

(Start: 15 @38789 has 1 MA's), (20, 38753), (32, 38699), (Start: 48 @38618 has 3 MA's), (Start: 55 @38585 has 23 MA's), (77, 38477), (87, 38402), (94, 38357), (96, 38348), (110, 38300), (114, 38264), (119, 38246),

Gene: Chuni_46 Start: 39735, Stop: 39208, Start Num: 26
Candidate Starts for Chuni_46:
(Start: 26 @39735 has 243 MA's), (Start: 52 @39633 has 53 MA's), (72, 39555), (73, 39540), (81, 39495),

Gene: Chunky_46 Start: 39724, Stop: 39200, Start Num: 26
Candidate Starts for Chunky_46:
(Start: 26 @39724 has 243 MA's), (Start: 52 @39625 has 53 MA's), (72, 39547), (73, 39532), (81, 39487),

Gene: Chute_46 Start: 39765, Stop: 39238, Start Num: 26
Candidate Starts for Chute_46:
(Start: 26 @39765 has 243 MA's), (Start: 52 @39663 has 53 MA's), (72, 39585), (73, 39570), (81, 39525),

Gene: CloverMinnie_41 Start: 35206, Stop: 34766, Start Num: 51
Candidate Starts for CloverMinnie_41:
(Start: 51 @35206 has 2 MA's), (Start: 69 @35152 has 6 MA's), (74, 35092), (76, 35077), (87, 34984), (90, 34972), (94, 34939), (107, 34891), (111, 34882),

Gene: Cobra_46 Start: 39722, Stop: 39198, Start Num: 26
Candidate Starts for Cobra_46:
(Start: 26 @39722 has 243 MA's), (Start: 52 @39623 has 53 MA's), (72, 39545), (73, 39530), (81, 39485),

Gene: Coco2012_39 Start: 33158, Stop: 32772, Start Num: 59
Candidate Starts for Coco2012_39:
(Start: 59 @33158 has 1 MA's), (80, 33044), (81, 33038), (90, 32969), (92, 32960), (107, 32885), (116, 32840), (119, 32828),

Gene: Coffee_45 Start: 39966, Stop: 39577, Start Num: 57
Candidate Starts for Coffee_45:
(Start: 57 @39966 has 36 MA's), (72, 39909), (77, 39867), (81, 39846), (86, 39801), (88, 39786), (90, 39777), (93, 39765), (94, 39744), (108, 39681), (110, 39675), (114, 39639), (115, 39636), (126, 39597),

Gene: Colbert_46 Start: 39777, Stop: 39253, Start Num: 26
Candidate Starts for Colbert_46:
(Start: 26 @39777 has 243 MA's), (Start: 52 @39678 has 53 MA's), (72, 39600), (73, 39585), (81, 39540),

Gene: Coldpizza_42 Start: 37983, Stop: 37594, Start Num: 67
Candidate Starts for Coldpizza_42:
(Start: 67 @37983 has 4 MA's), (76, 37899), (77, 37893), (81, 37875), (92, 37797), (114, 37686),

Gene: Coletti_46 Start: 39765, Stop: 39238, Start Num: 26
Candidate Starts for Coletti_46:
(Start: 26 @39765 has 243 MA's), (Start: 52 @39663 has 53 MA's), (72, 39585), (73, 39570), (81, 39525),

Gene: Compostia_45 Start: 39940, Stop: 39455, Start Num: 46
Candidate Starts for Compostia_45:
(Start: 16 @40111 has 1 MA's), (35, 40009), (42, 39955), (Start: 46 @39940 has 41 MA's), (Start: 53 @39892 has 11 MA's), (71, 39802), (77, 39757), (78, 39751), (80, 39745), (86, 39694), (100, 39607), (104, 39583), (114, 39535),

Gene: Cooper_42 Start: 38807, Stop: 38379, Start Num: 55
Candidate Starts for Cooper_42:
(Start: 15 @39008 has 1 MA's), (20, 38972), (Start: 48 @38840 has 3 MA's), (Start: 55 @38807 has 23 MA's), (77, 38696), (87, 38621), (90, 38609), (96, 38567), (110, 38519), (113, 38486), (114, 38483), (119, 38465), (129, 38420),

Gene: Cornbread_45 Start: 39438, Stop: 38914, Start Num: 26
Candidate Starts for Cornbread_45:
(Start: 26 @39438 has 243 MA's), (Start: 52 @39339 has 53 MA's), (72, 39261), (73, 39246), (81, 39201),

Gene: Cornobble_45 Start: 39279, Stop: 38752, Start Num: 26
Candidate Starts for Cornobble_45:
(Start: 26 @39279 has 243 MA's), (Start: 52 @39177 has 53 MA's), (72, 39099), (73, 39084), (81, 39039),

Gene: Corofin_44 Start: 39535, Stop: 39050, Start Num: 46
Candidate Starts for Corofin_44:
(Start: 16 @39706 has 1 MA's), (35, 39604), (42, 39550), (Start: 46 @39535 has 41 MA's), (Start: 53 @39487 has 11 MA's), (71, 39397), (77, 39352), (78, 39346), (80, 39340), (86, 39289), (100, 39202), (104, 39178), (114, 39130),

Gene: Cosmolli16_45 Start: 39429, Stop: 38902, Start Num: 26
Candidate Starts for Cosmolli16_45:
(Start: 26 @39429 has 243 MA's), (Start: 52 @39327 has 53 MA's), (72, 39249), (73, 39234), (81, 39189),

Gene: Craff_46 Start: 39620, Stop: 39195, Start Num: 52
Candidate Starts for Craff_46:
(22, 39770), (24, 39761), (27, 39746), (Start: 52 @39620 has 53 MA's), (72, 39542), (73, 39527), (81, 39482),

Gene: Crownjwl_46 Start: 39498, Stop: 38968, Start Num: 26
Candidate Starts for Crownjwl_46:
(Start: 26 @39498 has 243 MA's), (Start: 52 @39393 has 53 MA's), (72, 39315), (73, 39300), (81, 39255),

Gene: DaddyDaniels_46 Start: 39410, Stop: 38886, Start Num: 26
Candidate Starts for DaddyDaniels_46:
(Start: 26 @39410 has 243 MA's), (Start: 52 @39311 has 53 MA's), (72, 39233), (73, 39218), (81, 39173),

Gene: Daffy_46 Start: 39441, Stop: 38917, Start Num: 26
Candidate Starts for Daffy_46:
(Start: 26 @39441 has 243 MA's), (Start: 52 @39342 has 53 MA's), (72, 39264), (73, 39249), (81, 39204),

Gene: Daisy_44 Start: 39536, Stop: 39051, Start Num: 46
Candidate Starts for Daisy_44:
(Start: 16 @39707 has 1 MA's), (35, 39605), (42, 39551), (Start: 46 @39536 has 41 MA's), (Start: 53 @39488 has 11 MA's), (71, 39398), (77, 39353), (78, 39347), (80, 39341), (86, 39290), (100, 39203), (104, 39179), (114, 39131),

Gene: Daka_47 Start: 39714, Stop: 39190, Start Num: 26
Candidate Starts for Daka_47:
(Start: 26 @39714 has 243 MA's), (Start: 52 @39615 has 53 MA's), (72, 39537), (73, 39522), (81, 39477),

Gene: Dati_46 Start: 39336, Stop: 38911, Start Num: 52
Candidate Starts for Dati_46:
(Start: 26 @39438 has 243 MA's), (Start: 52 @39336 has 53 MA's), (72, 39258), (73, 39243), (81, 39198),

Gene: Deenasa_44 Start: 40271, Stop: 39786, Start Num: 46
Candidate Starts for Deenasa_44:
(Start: 16 @40442 has 1 MA's), (35, 40340), (42, 40286), (Start: 46 @40271 has 41 MA's), (Start: 53 @40223 has 11 MA's), (71, 40133), (77, 40088), (78, 40082), (80, 40076), (86, 40025), (100, 39938), (104, 39914), (114, 39866),

Gene: DelRivs_45 Start: 39442, Stop: 38912, Start Num: 26
Candidate Starts for DelRivs_45:
(Start: 26 @39442 has 243 MA's), (Start: 52 @39337 has 53 MA's), (72, 39259), (73, 39244), (81, 39199),

Gene: Derpp_45 Start: 39280, Stop: 38756, Start Num: 26
Candidate Starts for Derpp_45:
(Start: 26 @39280 has 243 MA's), (Start: 52 @39181 has 53 MA's), (72, 39103), (73, 39088), (81, 39043),

Gene: Devonte_44 Start: 39500, Stop: 39015, Start Num: 46
Candidate Starts for Devonte_44:
(Start: 16 @39671 has 1 MA's), (35, 39569), (42, 39515), (Start: 46 @39500 has 41 MA's), (Start: 53 @39452 has 11 MA's), (71, 39362), (77, 39317), (78, 39311), (80, 39305), (86, 39254), (100, 39167), (104, 39143), (114, 39095),

Gene: Dice_45 Start: 39412, Stop: 38891, Start Num: 26
Candidate Starts for Dice_45:
(Start: 26 @39412 has 243 MA's), (Start: 52 @39316 has 53 MA's), (72, 39238), (73, 39223), (81, 39178),

Gene: DigitDog_44 Start: 39734, Stop: 39348, Start Num: 63
Candidate Starts for DigitDog_44:
(Start: 63 @39734 has 13 MA's), (70, 39713), (74, 39674), (77, 39653), (85, 39593), (88, 39575), (90, 39566), (110, 39479), (114, 39443), (119, 39425), (127, 39389),

Gene: Dingo_46 Start: 39704, Stop: 39174, Start Num: 26
Candidate Starts for Dingo_46:
(Start: 26 @39704 has 243 MA's), (Start: 52 @39599 has 53 MA's), (72, 39521), (73, 39506), (81, 39461),

Gene: Dione_45 Start: 39420, Stop: 38896, Start Num: 26
Candidate Starts for Dione_45:
(Start: 26 @39420 has 243 MA's), (Start: 52 @39321 has 53 MA's), (72, 39243), (73, 39228), (81, 39183),

Gene: DirtJuice_46 Start: 39704, Stop: 39180, Start Num: 26
Candidate Starts for DirtJuice_46:
(Start: 26 @39704 has 243 MA's), (Start: 52 @39605 has 53 MA's), (72, 39527), (73, 39512), (81, 39467),

Gene: Doddsville_46 Start: 39434, Stop: 38910, Start Num: 26
Candidate Starts for Doddsville_46:
(Start: 26 @39434 has 243 MA's), (Start: 52 @39335 has 53 MA's), (72, 39257), (73, 39242), (81, 39197),

Gene: DoesntMatter_45 Start: 39707, Stop: 39183, Start Num: 26
Candidate Starts for DoesntMatter_45:
(Start: 26 @39707 has 243 MA's), (Start: 52 @39608 has 53 MA's), (72, 39530), (73, 39515), (81, 39470),

Gene: DolOn_48 Start: 39845, Stop: 39420, Start Num: 52
Candidate Starts for DolOn_48:
(22, 39995), (24, 39986), (27, 39971), (Start: 52 @39845 has 53 MA's), (72, 39767), (73, 39752), (81, 39707),

Gene: DonSanchon_45 Start: 39417, Stop: 38890, Start Num: 26
Candidate Starts for DonSanchon_45:
(Start: 26 @39417 has 243 MA's), (Start: 52 @39315 has 53 MA's), (72, 39237), (73, 39222), (81, 39177),

Gene: Donny_45 Start: 40039, Stop: 39653, Start Num: 63
Candidate Starts for Donny_45:
(29, 40177), (Start: 63 @40039 has 13 MA's), (70, 40018), (74, 39979), (77, 39958), (85, 39898), (90, 39871), (110, 39784), (114, 39748), (119, 39730), (127, 39694), (132, 39673),

Gene: DuchessDung_44 Start: 38469, Stop: 38044, Start Num: 52
Candidate Starts for DuchessDung_44:
(22, 38619), (24, 38610), (27, 38595), (Start: 52 @38469 has 53 MA's), (72, 38391), (73, 38376), (81, 38331),

Gene: Duggie_45 Start: 39436, Stop: 38912, Start Num: 26
Candidate Starts for Duggie_45:
(Start: 26 @39436 has 243 MA's), (Start: 52 @39337 has 53 MA's), (72, 39259), (73, 39244), (81, 39199),

Gene: Durga_46 Start: 39635, Stop: 39210, Start Num: 52
Candidate Starts for Durga_46:
(22, 39785), (24, 39776), (27, 39761), (Start: 52 @39635 has 53 MA's), (72, 39557), (73, 39542), (81, 39497),

Gene: Eaglehorse_45 Start: 39890, Stop: 39501, Start Num: 57
Candidate Starts for Eaglehorse_45:

(Start: 57 @39890 has 36 MA's), (72, 39833), (77, 39791), (81, 39770), (86, 39725), (88, 39710), (90, 39701), (93, 39689), (94, 39668), (108, 39605), (110, 39599), (114, 39563), (115, 39560), (126, 39521),

Gene: EastView9101_43 Start: 39689, Stop: 39303, Start Num: 63
Candidate Starts for EastView9101_43:
(29, 39827), (Start: 63 @39689 has 13 MA's), (70, 39668), (74, 39629), (77, 39608), (85, 39548), (90, 39521), (110, 39434), (114, 39398), (119, 39380), (127, 39344), (132, 39323),

Gene: ElvisPhasley_46 Start: 39657, Stop: 39232, Start Num: 52
Candidate Starts for ElvisPhasley_46:
(22, 39807), (24, 39798), (27, 39783), (Start: 52 @39657 has 53 MA's), (72, 39579), (73, 39564), (81, 39519),

Gene: EmGer13_46 Start: 39176, Stop: 38751, Start Num: 52
Candidate Starts for EmGer13_46:
(Start: 26 @39278 has 243 MA's), (Start: 52 @39176 has 53 MA's), (72, 39098), (73, 39083), (81, 39038),

Gene: Emiris_46 Start: 39603, Stop: 39178, Start Num: 52
Candidate Starts for Emiris_46:
(22, 39753), (24, 39744), (27, 39729), (Start: 52 @39603 has 53 MA's), (72, 39525), (73, 39510), (81, 39465),

Gene: EmpTee_46 Start: 39720, Stop: 39190, Start Num: 26
Candidate Starts for EmpTee_46:
(Start: 26 @39720 has 243 MA's), (Start: 52 @39615 has 53 MA's), (72, 39537), (73, 39522), (81, 39477),

Gene: Epah_40 Start: 38593, Stop: 38168, Start Num: 55
Candidate Starts for Epah_40:
(Start: 15 @38797 has 1 MA's), (20, 38761), (32, 38707), (Start: 48 @38626 has 3 MA's), (Start: 55 @38593 has 23 MA's), (77, 38485), (87, 38410), (90, 38398), (94, 38365), (96, 38356), (110, 38308), (114, 38272), (119, 38254),

Gene: Eremos_46 Start: 39713, Stop: 39189, Start Num: 26
Candidate Starts for Eremos_46:
(Start: 26 @39713 has 243 MA's), (Start: 52 @39614 has 53 MA's), (72, 39536), (73, 39521), (81, 39476),

Gene: Etaye_46 Start: 39707, Stop: 39180, Start Num: 26
Candidate Starts for Etaye_46:
(Start: 26 @39707 has 243 MA's), (Start: 52 @39605 has 53 MA's), (72, 39527), (73, 39512), (81, 39467),

Gene: Eugenia_46 Start: 39723, Stop: 39199, Start Num: 26
Candidate Starts for Eugenia_46:
(Start: 26 @39723 has 243 MA's), (Start: 52 @39624 has 53 MA's), (72, 39546), (73, 39531), (81, 39486),

Gene: Evaa_39 Start: 34284, Stop: 33898, Start Num: 67
Candidate Starts for Evaa_39:

(62, 34296), (Start: 67 @34284 has 4 MA's), (77, 34194), (81, 34176), (93, 34095), (102, 34041), (107, 34029),

Gene: Fanaw_40 Start: 39290, Stop: 38865, Start Num: 55
Candidate Starts for Fanaw_40:
(Start: 15 @39494 has 1 MA's), (18, 39470), (20, 39458), (32, 39404), (Start: 48 @39323 has 3 MA's), (Start: 55 @39290 has 23 MA's), (Start: 57 @39284 has 36 MA's), (77, 39182), (87, 39107), (88, 39104), (94, 39062), (96, 39053), (110, 39005), (114, 38969), (119, 38951),

Gene: Fang_46 Start: 39628, Stop: 39203, Start Num: 52
Candidate Starts for Fang_46:
(22, 39778), (24, 39769), (27, 39754), (Start: 52 @39628 has 53 MA's), (72, 39550), (73, 39535), (81, 39490),

Gene: Faze9_44 Start: 39986, Stop: 39597, Start Num: 57
Candidate Starts for Faze9_44:
(Start: 57 @39986 has 36 MA's), (72, 39929), (77, 39887), (81, 39866), (86, 39821), (88, 39806), (90, 39797), (93, 39785), (94, 39764), (108, 39701), (110, 39695), (114, 39659), (115, 39656), (126, 39617),

Gene: FelixTres_41 Start: 35269, Stop: 34829, Start Num: 51
Candidate Starts for FelixTres_41:
(Start: 51 @35269 has 2 MA's), (Start: 69 @35215 has 6 MA's), (74, 35155), (76, 35140), (87, 35047), (90, 35035), (94, 35002), (107, 34954), (111, 34945),

Gene: Flake_46 Start: 39772, Stop: 39245, Start Num: 26
Candidate Starts for Flake_46:
(Start: 26 @39772 has 243 MA's), (Start: 52 @39670 has 53 MA's), (72, 39592), (73, 39577), (81, 39532),

Gene: FleetyMac_46 Start: 39623, Stop: 39198, Start Num: 52
Candidate Starts for FleetyMac_46:
(Start: 26 @39725 has 243 MA's), (Start: 52 @39623 has 53 MA's), (72, 39545), (73, 39530), (81, 39485),

Gene: FluffyNinja_46 Start: 39621, Stop: 39196, Start Num: 52
Candidate Starts for FluffyNinja_46:
(22, 39771), (24, 39762), (27, 39747), (Start: 52 @39621 has 53 MA's), (72, 39543), (73, 39528), (81, 39483),

Gene: ForDig_38 Start: 37407, Stop: 36973, Start Num: 54
Candidate Starts for ForDig_38:
(12, 37635), (21, 37563), (Start: 54 @37407 has 2 MA's), (74, 37302), (77, 37281), (85, 37221), (93, 37182), (97, 37149), (114, 37074), (119, 37056),

Gene: Fortunato_42 Start: 39822, Stop: 39193, Start Num: 15
Candidate Starts for Fortunato_42:
(Start: 15 @39822 has 1 MA's), (20, 39786), (32, 39732), (Start: 48 @39651 has 3 MA's), (Start: 55 @39618 has 23 MA's), (Start: 57 @39612 has 36 MA's), (77, 39510), (87, 39435), (90, 39423), (94, 39390), (96, 39381), (110, 39333), (114, 39297), (119, 39279),

Gene: Fozzie_45 Start: 39742, Stop: 39212, Start Num: 26
Candidate Starts for Fozzie_45:

(Start: 26 @39742 has 243 MA's), (Start: 52 @39637 has 53 MA's), (72, 39559), (73, 39544), (81, 39499),

Gene: Frankicide_46 Start: 39732, Stop: 39208, Start Num: 26
Candidate Starts for Frankicide_46:
(Start: 26 @39732 has 243 MA's), (Start: 52 @39633 has 53 MA's), (72, 39555), (73, 39540), (81, 39495),

Gene: Frederick_42 Start: 39624, Stop: 39199, Start Num: 55
Candidate Starts for Frederick_42:
(Start: 15 @39828 has 1 MA's), (18, 39804), (20, 39792), (32, 39738), (Start: 48 @39657 has 3 MA's), (Start: 55 @39624 has 23 MA's), (77, 39516), (87, 39441), (94, 39396), (96, 39387), (110, 39339), (114, 39303), (119, 39285),

Gene: FremontTroll_45 Start: 39480, Stop: 38950, Start Num: 26
Candidate Starts for FremontTroll_45:
(Start: 26 @39480 has 243 MA's), (Start: 52 @39375 has 53 MA's), (72, 39297), (73, 39282), (81, 39237),

Gene: FrenchFry_45 Start: 39980, Stop: 39591, Start Num: 57
Candidate Starts for FrenchFry_45:
(Start: 57 @39980 has 36 MA's), (72, 39923), (77, 39881), (81, 39860), (86, 39815), (88, 39800), (90, 39791), (93, 39779), (94, 39758), (108, 39695), (110, 39689), (114, 39653), (115, 39650), (126, 39611),

Gene: Fresco_39 Start: 33273, Stop: 32851, Start Num: 58
Candidate Starts for Fresco_39:
(Start: 58 @33273 has 10 MA's), (77, 33156), (81, 33138), (87, 33081), (102, 32994), (107, 32979), (116, 32934), (125, 32892),

Gene: Freya_45 Start: 39411, Stop: 38887, Start Num: 26
Candidate Starts for Freya_45:
(Start: 26 @39411 has 243 MA's), (Start: 52 @39312 has 53 MA's), (72, 39234), (73, 39219), (81, 39174),

Gene: FriarPreacher_45 Start: 39744, Stop: 39214, Start Num: 26
Candidate Starts for FriarPreacher_45:
(Start: 26 @39744 has 243 MA's), (Start: 52 @39639 has 53 MA's), (72, 39561), (73, 39546), (81, 39501),

Gene: Fringe_46 Start: 39604, Stop: 39179, Start Num: 52
Candidate Starts for Fringe_46:
(22, 39754), (24, 39745), (27, 39730), (Start: 52 @39604 has 53 MA's), (72, 39526), (73, 39511), (81, 39466),

Gene: FugateOSU_45 Start: 39419, Stop: 38892, Start Num: 26
Candidate Starts for FugateOSU_45:
(Start: 26 @39419 has 243 MA's), (Start: 52 @39317 has 53 MA's), (72, 39239), (73, 39224), (81, 39179),

Gene: Funsized_47 Start: 42156, Stop: 41758, Start Num: 61
Candidate Starts for Funsized_47:

(Start: 61 @42156 has 5 MA's), (81, 42054), (87, 41997), (88, 41994), (95, 41946), (109, 41886), (119, 41829),

Gene: Gadjet_45 Start: 39523, Stop: 39038, Start Num: 46
Candidate Starts for Gadjet_45:
(Start: 16 @39694 has 1 MA's), (35, 39592), (42, 39538), (Start: 46 @39523 has 41 MA's), (Start: 53 @39475 has 11 MA's), (71, 39385), (77, 39340), (78, 39334), (80, 39328), (86, 39277), (100, 39190), (104, 39166), (114, 39118),

Gene: Gareth_45 Start: 39320, Stop: 38895, Start Num: 52
Candidate Starts for Gareth_45:
(Start: 26 @39419 has 243 MA's), (Start: 52 @39320 has 53 MA's), (72, 39242), (73, 39227), (81, 39182),

Gene: GeneCoco_46 Start: 39728, Stop: 39204, Start Num: 26
Candidate Starts for GeneCoco_46:
(Start: 26 @39728 has 243 MA's), (Start: 52 @39629 has 53 MA's), (72, 39551), (73, 39536), (81, 39491),

Gene: Gervas_44 Start: 39490, Stop: 39005, Start Num: 46
Candidate Starts for Gervas_44:
(Start: 16 @39661 has 1 MA's), (35, 39559), (42, 39505), (Start: 46 @39490 has 41 MA's), (Start: 53 @39442 has 11 MA's), (71, 39352), (77, 39307), (78, 39301), (80, 39295), (86, 39244), (100, 39157), (104, 39133), (114, 39085),

Gene: GinPorsche_41 Start: 38593, Stop: 38168, Start Num: 55
Candidate Starts for GinPorsche_41:
(Start: 15 @38797 has 1 MA's), (20, 38761), (32, 38707), (Start: 48 @38626 has 3 MA's), (Start: 55 @38593 has 23 MA's), (77, 38485), (87, 38410), (90, 38398), (94, 38365), (96, 38356), (110, 38308), (114, 38272), (119, 38254),

Gene: Giraffe_46 Start: 39422, Stop: 38898, Start Num: 26
Candidate Starts for Giraffe_46:
(Start: 26 @39422 has 243 MA's), (Start: 52 @39323 has 53 MA's), (72, 39245), (73, 39230), (81, 39185),

Gene: Glass_45 Start: 39980, Stop: 39591, Start Num: 57
Candidate Starts for Glass_45:
(Start: 57 @39980 has 36 MA's), (72, 39923), (77, 39881), (81, 39860), (86, 39815), (88, 39800), (90, 39791), (93, 39779), (94, 39758), (108, 39695), (110, 39689), (114, 39653), (115, 39650), (126, 39611),

Gene: GlenHope_45 Start: 39503, Stop: 39018, Start Num: 46
Candidate Starts for GlenHope_45:
(Start: 16 @39674 has 1 MA's), (35, 39572), (42, 39518), (Start: 46 @39503 has 41 MA's), (Start: 53 @39455 has 11 MA's), (71, 39365), (77, 39320), (78, 39314), (80, 39308), (86, 39257), (100, 39170), (104, 39146), (114, 39098),

Gene: Glubnar_45 Start: 39502, Stop: 39017, Start Num: 46
Candidate Starts for Glubnar_45:
(Start: 16 @39673 has 1 MA's), (35, 39571), (42, 39517), (Start: 46 @39502 has 41 MA's), (Start: 53 @39454 has 11 MA's), (71, 39364), (77, 39319), (78, 39313), (80, 39307), (86, 39256), (100, 39169), (104, 39145), (114, 39097),

Gene: Godines_45 Start: 39922, Stop: 39533, Start Num: 57
Candidate Starts for Godines_45:
(Start: 57 @39922 has 36 MA's), (72, 39865), (77, 39823), (81, 39802), (86, 39757), (88, 39742), (90, 39733), (93, 39721), (94, 39700), (108, 39637), (110, 39631), (114, 39595), (115, 39592), (126, 39553),

Gene: Gophee_46 Start: 39711, Stop: 39181, Start Num: 26
Candidate Starts for Gophee_46:
(Start: 26 @39711 has 243 MA's), (Start: 52 @39606 has 53 MA's), (72, 39528), (73, 39513), (81, 39468),

Gene: Grand2040_45 Start: 39437, Stop: 38913, Start Num: 26
Candidate Starts for Grand2040_45:
(Start: 26 @39437 has 243 MA's), (Start: 52 @39338 has 53 MA's), (72, 39260), (73, 39245), (81, 39200),

Gene: GreenChile_46 Start: 39716, Stop: 39189, Start Num: 26
Candidate Starts for GreenChile_46:
(Start: 26 @39716 has 243 MA's), (Start: 52 @39614 has 53 MA's), (72, 39536), (73, 39521), (81, 39476),

Gene: Gwennie1_46 Start: 39783, Stop: 39259, Start Num: 26
Candidate Starts for Gwennie1_46:
(Start: 26 @39783 has 243 MA's), (Start: 52 @39684 has 53 MA's), (72, 39606), (73, 39591), (81, 39546),

Gene: Gwilliam_46 Start: 39717, Stop: 39193, Start Num: 26
Candidate Starts for Gwilliam_46:
(Start: 26 @39717 has 243 MA's), (Start: 52 @39618 has 53 MA's), (72, 39540), (73, 39525), (81, 39480),

Gene: Gyarad_0046 Start: 39719, Stop: 39195, Start Num: 26
Candidate Starts for Gyarad_0046:
(Start: 26 @39719 has 243 MA's), (Start: 52 @39620 has 53 MA's), (72, 39542), (73, 39527), (81, 39482),

Gene: HSavage_46 Start: 39723, Stop: 39199, Start Num: 26
Candidate Starts for HSavage_46:
(Start: 26 @39723 has 243 MA's), (Start: 52 @39624 has 53 MA's), (72, 39546), (73, 39531), (81, 39486),

Gene: Haimas_46 Start: 39717, Stop: 39190, Start Num: 26
Candidate Starts for Haimas_46:
(Start: 26 @39717 has 243 MA's), (Start: 52 @39615 has 53 MA's), (72, 39537), (73, 39522), (81, 39477),

Gene: Haleema_45 Start: 39437, Stop: 38913, Start Num: 26
Candidate Starts for Haleema_45:
(Start: 26 @39437 has 243 MA's), (Start: 52 @39338 has 53 MA's), (72, 39260), (73, 39245), (81, 39200),

Gene: Halfpint_43 Start: 39281, Stop: 38844, Start Num: 53

Candidate Starts for Halfpint_43:
(Start: 16 @39500 has 1 MA's), (35, 39398), (42, 39344), (Start: 46 @39329 has 41 MA's), (Start: 53 @39281 has 11 MA's), (71, 39191), (77, 39146), (78, 39140), (80, 39134), (86, 39083), (100, 38996), (104, 38972), (114, 38924),

Gene: Hally898_40 Start: 38605, Stop: 38180, Start Num: 55
Candidate Starts for Hally898_40:
(Start: 15 @38809 has 1 MA's), (20, 38773), (32, 38719), (Start: 48 @38638 has 3 MA's), (Start: 55 @38605 has 23 MA's), (77, 38497), (87, 38422), (90, 38410), (94, 38377), (96, 38368), (110, 38320), (114, 38284), (119, 38266),

Gene: Hamish_46 Start: 39709, Stop: 39182, Start Num: 26
Candidate Starts for Hamish_46:
(Start: 26 @39709 has 243 MA's), (Start: 52 @39607 has 53 MA's), (72, 39529), (73, 39514), (81, 39469),

Gene: Hangman_41 Start: 39616, Stop: 39191, Start Num: 55
Candidate Starts for Hangman_41:
(Start: 15 @39820 has 1 MA's), (18, 39796), (20, 39784), (32, 39730), (Start: 48 @39649 has 3 MA's), (Start: 55 @39616 has 23 MA's), (77, 39508), (87, 39433), (90, 39421), (94, 39388), (96, 39379), (110, 39331), (114, 39295), (119, 39277),

Gene: Happabalu_46 Start: 39438, Stop: 38911, Start Num: 26
Candidate Starts for Happabalu_46:
(Start: 26 @39438 has 243 MA's), (Start: 52 @39336 has 53 MA's), (72, 39258), (73, 39243), (81, 39198),

Gene: Hartsy_46 Start: 39760, Stop: 39233, Start Num: 26
Candidate Starts for Hartsy_46:
(Start: 26 @39760 has 243 MA's), (Start: 52 @39658 has 53 MA's), (72, 39580), (73, 39565), (81, 39520),

Gene: Harvey_46 Start: 39735, Stop: 39208, Start Num: 26
Candidate Starts for Harvey_46:
(Start: 26 @39735 has 243 MA's), (Start: 52 @39633 has 53 MA's), (72, 39555), (73, 39540), (81, 39495),

Gene: HarveySr_44 Start: 39496, Stop: 39011, Start Num: 46
Candidate Starts for HarveySr_44:
(Start: 16 @39667 has 1 MA's), (35, 39565), (42, 39511), (Start: 46 @39496 has 41 MA's), (Start: 53 @39448 has 11 MA's), (71, 39358), (77, 39313), (78, 39307), (80, 39301), (86, 39250), (100, 39163), (104, 39139), (114, 39091),

Gene: Hashim76_47 Start: 38867, Stop: 38346, Start Num: 38
Candidate Starts for Hashim76_47:
(11, 39095), (23, 38954), (Start: 37 @38870 has 4 MA's), (Start: 38 @38867 has 1 MA's), (47, 38834), (Start: 51 @38807 has 2 MA's), (62, 38768), (77, 38666), (80, 38654), (89, 38582), (96, 38537), (109, 38480),

Gene: Heath_40 Start: 39223, Stop: 38798, Start Num: 55
Candidate Starts for Heath_40:
(Start: 15 @39427 has 1 MA's), (18, 39403), (20, 39391), (32, 39337), (Start: 48 @39256 has 3 MA's), (Start: 55 @39223 has 23 MA's), (77, 39115), (87, 39040), (90, 39028), (94, 38995), (96, 38986), (110,

38938), (114, 38902), (119, 38884),

Gene: Heathcliff_44 Start: 39474, Stop: 38989, Start Num: 46
Candidate Starts for Heathcliff_44:
(Start: 16 @39645 has 1 MA's), (35, 39543), (42, 39489), (Start: 46 @39474 has 41 MA's), (Start: 53 @39426 has 11 MA's), (71, 39336), (77, 39291), (78, 39285), (80, 39279), (86, 39228), (100, 39141), (104, 39117), (114, 39069),

Gene: Hedgerow_45 Start: 39962, Stop: 39573, Start Num: 57
Candidate Starts for Hedgerow_45:
(Start: 57 @39962 has 36 MA's), (72, 39905), (77, 39863), (81, 39842), (86, 39797), (88, 39782), (90, 39773), (93, 39761), (94, 39740), (108, 39677), (110, 39671), (114, 39635), (115, 39632), (126, 39593),

Gene: Hekos_43 Start: 38286, Stop: 37762, Start Num: 26
Candidate Starts for Hekos_43:
(Start: 26 @38286 has 243 MA's), (Start: 52 @38187 has 53 MA's), (72, 38109), (73, 38094), (81, 38049),

Gene: Held_46 Start: 39421, Stop: 38897, Start Num: 26
Candidate Starts for Held_46:
(Start: 26 @39421 has 243 MA's), (Start: 52 @39322 has 53 MA's), (72, 39244), (73, 39229), (81, 39184),

Gene: HenryJackson_45 Start: 39437, Stop: 38913, Start Num: 26
Candidate Starts for HenryJackson_45:
(Start: 26 @39437 has 243 MA's), (Start: 52 @39338 has 53 MA's), (72, 39260), (73, 39245), (81, 39200),

Gene: Hertubise_46 Start: 39731, Stop: 39204, Start Num: 26
Candidate Starts for Hertubise_46:
(Start: 26 @39731 has 243 MA's), (Start: 52 @39629 has 53 MA's), (72, 39551), (73, 39536), (81, 39491),

Gene: Hetaeria_46 Start: 39733, Stop: 39206, Start Num: 26
Candidate Starts for Hetaeria_46:
(Start: 26 @39733 has 243 MA's), (Start: 52 @39631 has 53 MA's), (72, 39553), (73, 39538), (81, 39493),

Gene: HighStump_45 Start: 39321, Stop: 38896, Start Num: 52
Candidate Starts for HighStump_45:
(22, 39471), (24, 39462), (27, 39447), (Start: 52 @39321 has 53 MA's), (72, 39243), (73, 39228), (81, 39183),

Gene: Hocus_45 Start: 39426, Stop: 38902, Start Num: 26
Candidate Starts for Hocus_45:
(Start: 26 @39426 has 243 MA's), (Start: 52 @39327 has 53 MA's), (72, 39249), (73, 39234), (81, 39189),

Gene: HogWash_46 Start: 39729, Stop: 39202, Start Num: 26
Candidate Starts for HogWash_46:
(Start: 26 @39729 has 243 MA's), (Start: 52 @39627 has 53 MA's), (72, 39549), (73, 39534), (81, 39489),

Gene: Holeinone_45 Start: 39842, Stop: 39453, Start Num: 57
Candidate Starts for Holeinone_45:
(Start: 57 @39842 has 36 MA's), (72, 39785), (77, 39743), (81, 39722), (86, 39677), (88, 39662), (90, 39653), (93, 39641), (94, 39620), (108, 39557), (110, 39551), (114, 39515), (115, 39512), (126, 39473),

Gene: Horchata_46 Start: 39711, Stop: 39184, Start Num: 26
Candidate Starts for Horchata_46:
(Start: 26 @39711 has 243 MA's), (Start: 52 @39609 has 53 MA's), (72, 39531), (73, 39516), (81, 39471),

Gene: Hosp_036 Start: 35614, Stop: 35177, Start Num: 54
Candidate Starts for Hosp_036:
(12, 35842), (21, 35770), (Start: 54 @35614 has 2 MA's), (70, 35548), (77, 35488), (90, 35401), (93, 35389), (94, 35368), (114, 35269),

Gene: Hydro_41 Start: 39633, Stop: 39208, Start Num: 55
Candidate Starts for Hydro_41:
(Start: 15 @39837 has 1 MA's), (18, 39813), (20, 39801), (32, 39747), (Start: 48 @39666 has 3 MA's), (Start: 55 @39633 has 23 MA's), (77, 39525), (87, 39450), (90, 39438), (94, 39405), (96, 39396), (110, 39348), (114, 39312), (119, 39294),

Gene: ImtiyazSitla_45 Start: 39169, Stop: 38744, Start Num: 52
Candidate Starts for ImtiyazSitla_45:
(22, 39319), (24, 39310), (27, 39295), (Start: 52 @39169 has 53 MA's), (72, 39091), (73, 39076), (81, 39031),

Gene: Imvubu_37 Start: 36451, Stop: 35897, Start Num: 36
Candidate Starts for Imvubu_37:
(11, 36676), (23, 36532), (25, 36523), (Start: 36 @36451 has 1 MA's), (50, 36370), (Start: 57 @36331 has 36 MA's), (Start: 61 @36322 has 5 MA's), (62, 36319), (77, 36211), (90, 36124), (94, 36091), (95, 36085), (108, 36028), (119, 35968),

Gene: Inchworm_46 Start: 39607, Stop: 39182, Start Num: 52
Candidate Starts for Inchworm_46:
(22, 39757), (24, 39748), (27, 39733), (Start: 52 @39607 has 53 MA's), (72, 39529), (73, 39514), (81, 39469),

Gene: Indlovu_43 Start: 38910, Stop: 38503, Start Num: 61
Candidate Starts for Indlovu_43:
(Start: 61 @38910 has 5 MA's), (74, 38835), (88, 38736), (94, 38694), (105, 38637), (114, 38589),

Gene: Inverness_46 Start: 39720, Stop: 39196, Start Num: 26
Candidate Starts for Inverness_46:
(Start: 26 @39720 has 243 MA's), (Start: 52 @39621 has 53 MA's), (72, 39543), (73, 39528), (81, 39483),

Gene: Iridessa_46 Start: 39422, Stop: 38898, Start Num: 26
Candidate Starts for Iridessa_46:
(Start: 26 @39422 has 243 MA's), (Start: 52 @39323 has 53 MA's), (72, 39245), (73, 39230), (81, 39185),

Gene: Iridoclysis_46 Start: 39703, Stop: 39176, Start Num: 26
Candidate Starts for Iridoclysis_46:
(Start: 26 @39703 has 243 MA's), (Start: 52 @39601 has 53 MA's), (72, 39523), (73, 39508), (81, 39463),

Gene: IsaacEli_46 Start: 39625, Stop: 39200, Start Num: 52
Candidate Starts for IsaacEli_46:
(22, 39775), (24, 39766), (27, 39751), (Start: 52 @39625 has 53 MA's), (72, 39547), (73, 39532), (81, 39487),

Gene: ItsyBitsy1_45 Start: 39844, Stop: 39455, Start Num: 57
Candidate Starts for ItsyBitsy1_45:
(Start: 57 @39844 has 36 MA's), (72, 39787), (77, 39745), (81, 39724), (86, 39679), (88, 39664), (90, 39655), (93, 39643), (94, 39622), (108, 39559), (110, 39553), (114, 39517), (115, 39514), (126, 39475),

Gene: JAMaL_41 Start: 39804, Stop: 39379, Start Num: 55
Candidate Starts for JAMaL_41:
(Start: 15 @40008 has 1 MA's), (18, 39984), (20, 39972), (28, 39936), (32, 39918), (Start: 48 @39837 has 3 MA's), (Start: 55 @39804 has 23 MA's), (Start: 57 @39798 has 36 MA's), (77, 39696), (87, 39621), (90, 39609), (94, 39576), (110, 39519), (114, 39483), (119, 39465),

Gene: JDog_45 Start: 39338, Stop: 38913, Start Num: 52
Candidate Starts for JDog_45:
(Start: 26 @39440 has 243 MA's), (Start: 52 @39338 has 53 MA's), (72, 39260), (73, 39245), (81, 39200),

Gene: JacAttac_46 Start: 39607, Stop: 39182, Start Num: 52
Candidate Starts for JacAttac_46:
(22, 39757), (24, 39748), (27, 39733), (Start: 52 @39607 has 53 MA's), (72, 39529), (73, 39514), (81, 39469),

Gene: Jackstina_41 Start: 39385, Stop: 38948, Start Num: 53
Candidate Starts for Jackstina_41:
(Start: 16 @39604 has 1 MA's), (35, 39502), (42, 39448), (Start: 46 @39433 has 41 MA's), (Start: 53 @39385 has 11 MA's), (71, 39295), (77, 39250), (78, 39244), (80, 39238), (86, 39187), (100, 39100), (104, 39076), (114, 39028),

Gene: JaguarMi_41 Start: 39177, Stop: 38674, Start Num: 37
Candidate Starts for JaguarMi_41:
(23, 39261), (Start: 37 @39177 has 4 MA's), (Start: 48 @39132 has 3 MA's), (Start: 55 @39099 has 23 MA's), (77, 38991), (87, 38916), (90, 38904), (94, 38871), (96, 38862), (110, 38814), (114, 38778), (119, 38760),

Gene: JakeO_45 Start: 39439, Stop: 38915, Start Num: 26
Candidate Starts for JakeO_45:
(Start: 26 @39439 has 243 MA's), (Start: 52 @39340 has 53 MA's), (72, 39262), (73, 39247), (81, 39202),

Gene: JangoPhett_46 Start: 39714, Stop: 39184, Start Num: 26
Candidate Starts for JangoPhett_46:
(Start: 26 @39714 has 243 MA's), (Start: 52 @39609 has 53 MA's), (72, 39531), (73, 39516), (81, 39471),

Gene: Jbug01_46 Start: 38934, Stop: 38407, Start Num: 26
Candidate Starts for Jbug01_46:
(Start: 26 @38934 has 243 MA's), (Start: 52 @38832 has 53 MA's), (72, 38754), (73, 38739), (81, 38694),

Gene: JellyBelly_39 Start: 33164, Stop: 32778, Start Num: 59
Candidate Starts for JellyBelly_39:
(Start: 59 @33164 has 1 MA's), (80, 33050), (81, 33044), (90, 32975), (92, 32966), (107, 32891), (116, 32846), (119, 32834),

Gene: Jesabah_46 Start: 39442, Stop: 38915, Start Num: 26
Candidate Starts for Jesabah_46:
(Start: 26 @39442 has 243 MA's), (Start: 52 @39340 has 53 MA's), (72, 39262), (73, 39247), (81, 39202),

Gene: Jillium_45 Start: 39433, Stop: 38906, Start Num: 26
Candidate Starts for Jillium_45:
(Start: 26 @39433 has 243 MA's), (Start: 52 @39331 has 53 MA's), (72, 39253), (73, 39238), (81, 39193),

Gene: Jiminy_45 Start: 39274, Stop: 38750, Start Num: 26
Candidate Starts for Jiminy_45:
(Start: 26 @39274 has 243 MA's), (Start: 52 @39175 has 53 MA's), (72, 39097), (73, 39082), (81, 39037),

Gene: Jiraiya_45 Start: 39427, Stop: 38903, Start Num: 26
Candidate Starts for Jiraiya_45:
(Start: 26 @39427 has 243 MA's), (Start: 52 @39328 has 53 MA's), (72, 39250), (73, 39235), (81, 39190),

Gene: Jolie1_038 Start: 37398, Stop: 36964, Start Num: 54
Candidate Starts for Jolie1_038:
(12, 37626), (Start: 54 @37398 has 2 MA's), (74, 37293), (77, 37272), (85, 37212), (90, 37185), (93, 37173), (97, 37140), (114, 37065), (119, 37047),

Gene: JoyceMaria_41 Start: 39619, Stop: 39194, Start Num: 55
Candidate Starts for JoyceMaria_41:
(Start: 15 @39823 has 1 MA's), (18, 39799), (20, 39787), (32, 39733), (Start: 48 @39652 has 3 MA's), (Start: 55 @39619 has 23 MA's), (Start: 57 @39613 has 36 MA's), (77, 39511), (87, 39436), (90, 39424), (94, 39391), (96, 39382), (110, 39334), (114, 39298), (119, 39280),

Gene: KLucky39_46 Start: 39718, Stop: 39194, Start Num: 26
Candidate Starts for KLucky39_46:
(Start: 26 @39718 has 243 MA's), (Start: 52 @39619 has 53 MA's), (72, 39541), (73, 39526), (81, 39481),

Gene: Kahve_45 Start: 39434, Stop: 38910, Start Num: 26
Candidate Starts for Kahve_45:
(Start: 26 @39434 has 243 MA's), (Start: 52 @39335 has 53 MA's), (72, 39257), (73, 39242), (81, 39197),

Gene: Kailash_46 Start: 39775, Stop: 39248, Start Num: 26

Candidate Starts for Kailash_46:
(Start: 26 @39775 has 243 MA's), (Start: 52 @39673 has 53 MA's), (72, 39595), (73, 39580), (81, 39535),

Gene: Kaleb_45 Start: 39977, Stop: 39588, Start Num: 57
Candidate Starts for Kaleb_45:
(Start: 57 @39977 has 36 MA's), (72, 39920), (77, 39878), (81, 39857), (86, 39812), (88, 39797), (90, 39788), (93, 39776), (94, 39755), (108, 39692), (110, 39686), (114, 39650), (115, 39647), (126, 39608),

Gene: Kamiyu_44 Start: 39482, Stop: 38997, Start Num: 46
Candidate Starts for Kamiyu_44:
(Start: 16 @39653 has 1 MA's), (35, 39551), (42, 39497), (Start: 46 @39482 has 41 MA's), (Start: 53 @39434 has 11 MA's), (71, 39344), (77, 39299), (78, 39293), (80, 39287), (86, 39236), (100, 39149), (104, 39125), (114, 39077),

Gene: KarasumaRum_46 Start: 40176, Stop: 39790, Start Num: 63
Candidate Starts for KarasumaRum_46:
(Start: 63 @40176 has 13 MA's), (70, 40155), (74, 40116), (77, 40095), (85, 40035), (88, 40017), (90, 40008), (114, 39885), (119, 39867), (127, 39831),

Gene: Karn_45 Start: 39434, Stop: 38910, Start Num: 26
Candidate Starts for Karn_45:
(Start: 26 @39434 has 243 MA's), (Start: 52 @39335 has 53 MA's), (72, 39257), (73, 39242), (81, 39197),

Gene: Katniss_46 Start: 39634, Stop: 39209, Start Num: 52
Candidate Starts for Katniss_46:
(22, 39784), (24, 39775), (27, 39760), (Start: 52 @39634 has 53 MA's), (72, 39556), (73, 39541), (81, 39496),

Gene: KayaCho_38 Start: 37397, Stop: 36963, Start Num: 54
Candidate Starts for KayaCho_38:
(Start: 54 @37397 has 2 MA's), (74, 37292), (77, 37271), (85, 37211), (90, 37184), (93, 37172), (97, 37139), (114, 37064), (119, 37046),

Gene: Keitherie_46 Start: 39774, Stop: 39247, Start Num: 26
Candidate Starts for Keitherie_46:
(Start: 26 @39774 has 243 MA's), (Start: 52 @39672 has 53 MA's), (72, 39594), (73, 39579), (81, 39534),

Gene: Khan1_45 Start: 39455, Stop: 38931, Start Num: 26
Candidate Starts for Khan1_45:
(Start: 26 @39455 has 243 MA's), (Start: 52 @39356 has 53 MA's), (72, 39278), (73, 39263), (81, 39218),

Gene: Kheth_45 Start: 39865, Stop: 39476, Start Num: 57
Candidate Starts for Kheth_45:
(Start: 57 @39865 has 36 MA's), (72, 39808), (77, 39766), (81, 39745), (86, 39700), (88, 39685), (90, 39676), (93, 39664), (94, 39643), (108, 39580), (110, 39574), (114, 39538), (115, 39535), (126, 39496),

Gene: Kikipoo_46 Start: 39625, Stop: 39200, Start Num: 52

Candidate Starts for Kikipoo_46:
(22, 39775), (24, 39766), (27, 39751), (Start: 52 @39625 has 53 MA's), (72, 39547), (73, 39532), (81, 39487),

Gene: Kimbrough_46 Start: 39435, Stop: 38902, Start Num: 26
Candidate Starts for Kimbrough_46:
(Start: 26 @39435 has 243 MA's), (Start: 52 @39327 has 53 MA's), (72, 39249), (73, 39234), (81, 39189),

Gene: KingTut_37 Start: 35098, Stop: 34571, Start Num: 26
Candidate Starts for KingTut_37:
(Start: 26 @35098 has 243 MA's), (Start: 52 @34996 has 53 MA's), (72, 34918), (73, 34903), (81, 34858),

Gene: KingVeVeVe_46 Start: 39705, Stop: 39175, Start Num: 26
Candidate Starts for KingVeVeVe_46:
(Start: 26 @39705 has 243 MA's), (Start: 52 @39600 has 53 MA's), (72, 39522), (73, 39507), (81, 39462),

Gene: Kiwot_46 Start: 39283, Stop: 38753, Start Num: 26
Candidate Starts for Kiwot_46:
(Start: 26 @39283 has 243 MA's), (Start: 52 @39178 has 53 MA's), (72, 39100), (73, 39085), (81, 39040),

Gene: KlimbOn_46 Start: 39712, Stop: 39188, Start Num: 26
Candidate Starts for KlimbOn_46:
(Start: 26 @39712 has 243 MA's), (Start: 52 @39613 has 53 MA's), (72, 39535), (73, 39520), (81, 39475),

Gene: Kloppinator_46 Start: 39738, Stop: 39211, Start Num: 26
Candidate Starts for Kloppinator_46:
(Start: 26 @39738 has 243 MA's), (Start: 52 @39636 has 53 MA's), (72, 39558), (73, 39543), (81, 39498),

Gene: Knocker_46 Start: 41265, Stop: 40882, Start Num: 61
Candidate Starts for Knocker_46:
(Start: 61 @41265 has 5 MA's), (77, 41190), (81, 41172), (82, 41157), (87, 41115), (96, 41061), (103, 41019), (106, 41013), (118, 40950), (128, 40914),

Gene: Kolhan_45 Start: 39856, Stop: 39467, Start Num: 57
Candidate Starts for Kolhan_45:
(Start: 57 @39856 has 36 MA's), (72, 39799), (77, 39757), (81, 39736), (86, 39691), (88, 39676), (90, 39667), (93, 39655), (94, 39634), (108, 39571), (110, 39565), (114, 39529), (115, 39526), (126, 39487),

Gene: Kronus_43 Start: 40092, Stop: 39607, Start Num: 46
Candidate Starts for Kronus_43:
(Start: 16 @40263 has 1 MA's), (35, 40161), (42, 40107), (Start: 46 @40092 has 41 MA's), (Start: 53 @40044 has 11 MA's), (71, 39954), (77, 39909), (78, 39903), (80, 39897), (86, 39846), (100, 39759), (104, 39735), (114, 39687),

Gene: Kwadwo_45 Start: 39416, Stop: 38892, Start Num: 26
Candidate Starts for Kwadwo_45:

(Start: 26 @39416 has 243 MA's), (Start: 52 @39317 has 53 MA's), (72, 39239), (73, 39224), (81, 39179),

Gene: Kwksand96_45 Start: 39285, Stop: 38761, Start Num: 26
Candidate Starts for Kwksand96_45:
(Start: 26 @39285 has 243 MA's), (Start: 52 @39186 has 53 MA's), (72, 39108), (73, 39093), (81, 39048),

Gene: Labeouficaum_45 Start: 39280, Stop: 38756, Start Num: 26
Candidate Starts for Labeouficaum_45:
(Start: 26 @39280 has 243 MA's), (Start: 52 @39181 has 53 MA's), (72, 39103), (73, 39088), (81, 39043),

Gene: Lambano_40 Start: 38605, Stop: 38180, Start Num: 55
Candidate Starts for Lambano_40:
(Start: 15 @38809 has 1 MA's), (20, 38773), (32, 38719), (Start: 48 @38638 has 3 MA's), (Start: 55 @38605 has 23 MA's), (77, 38497), (87, 38422), (90, 38410), (94, 38377), (96, 38368), (110, 38320), (114, 38284), (119, 38266),

Gene: Lars_45 Start: 39967, Stop: 39578, Start Num: 57
Candidate Starts for Lars_45:
(Start: 57 @39967 has 36 MA's), (72, 39910), (77, 39868), (81, 39847), (86, 39802), (88, 39787), (90, 39778), (93, 39766), (94, 39745), (108, 39682), (110, 39676), (114, 39640), (115, 39637), (122, 39610), (126, 39598),

Gene: Larson_47 Start: 39832, Stop: 39305, Start Num: 26
Candidate Starts for Larson_47:
(Start: 26 @39832 has 243 MA's), (Start: 52 @39730 has 53 MA's), (72, 39652), (73, 39637), (81, 39592),

Gene: LasagnaCat_46 Start: 39619, Stop: 39194, Start Num: 52
Candidate Starts for LasagnaCat_46:
(22, 39769), (24, 39760), (27, 39745), (Start: 52 @39619 has 53 MA's), (72, 39541), (73, 39526), (81, 39481),

Gene: Lasso_46 Start: 39691, Stop: 39167, Start Num: 26
Candidate Starts for Lasso_46:
(Start: 26 @39691 has 243 MA's), (Start: 52 @39592 has 53 MA's), (72, 39514), (73, 39499), (81, 39454),

Gene: Laurie_44 Start: 39366, Stop: 38977, Start Num: 57
Candidate Starts for Laurie_44:
(Start: 57 @39366 has 36 MA's), (72, 39309), (77, 39267), (81, 39246), (86, 39201), (88, 39186), (90, 39177), (93, 39165), (94, 39144), (108, 39081), (110, 39075), (114, 39039), (115, 39036), (119, 39021), (126, 38997),

Gene: LeeLot_46 Start: 39722, Stop: 39198, Start Num: 26
Candidate Starts for LeeLot_46:
(Start: 26 @39722 has 243 MA's), (Start: 52 @39623 has 53 MA's), (72, 39545), (73, 39530), (81, 39485),

Gene: Legolas_45 Start: 39333, Stop: 38908, Start Num: 52
Candidate Starts for Legolas_45:

(8, 39888), (10, 39693), (13, 39549), (Start: 52 @39333 has 53 MA's), (72, 39255), (73, 39240), (81, 39195),

Gene: Lehmann_46 Start: 39156, Stop: 38731, Start Num: 52
Candidate Starts for Lehmann_46:
(Start: 26 @39255 has 243 MA's), (Start: 52 @39156 has 53 MA's), (72, 39078), (73, 39063), (81, 39018),

Gene: LeiMonet_46 Start: 39423, Stop: 38899, Start Num: 26
Candidate Starts for LeiMonet_46:
(Start: 26 @39423 has 243 MA's), (Start: 52 @39324 has 53 MA's), (72, 39246), (73, 39231), (81, 39186),

Gene: LemonSlice_46 Start: 39422, Stop: 38895, Start Num: 26
Candidate Starts for LemonSlice_46:
(Start: 26 @39422 has 243 MA's), (Start: 52 @39320 has 53 MA's), (72, 39242), (73, 39227), (81, 39182),

Gene: Lephleur_45 Start: 39860, Stop: 39471, Start Num: 57
Candidate Starts for Lephleur_45:
(Start: 57 @39860 has 36 MA's), (72, 39803), (77, 39761), (81, 39740), (86, 39695), (88, 39680), (90, 39671), (93, 39659), (94, 39638), (108, 39575), (110, 39569), (114, 39533), (115, 39530), (126, 39491),

Gene: LestyG_44 Start: 39513, Stop: 39028, Start Num: 46
Candidate Starts for LestyG_44:
(Start: 16 @39684 has 1 MA's), (35, 39582), (42, 39528), (Start: 46 @39513 has 41 MA's), (Start: 53 @39465 has 11 MA's), (71, 39375), (77, 39330), (78, 39324), (80, 39318), (86, 39267), (100, 39180), (104, 39156), (114, 39108),

Gene: Ligma_39 Start: 33273, Stop: 32851, Start Num: 58
Candidate Starts for Ligma_39:
(Start: 58 @33273 has 10 MA's), (77, 33156), (81, 33138), (87, 33081), (102, 32994), (107, 32979), (116, 32934), (125, 32892),

Gene: LilMcDreamy_42 Start: 39137, Stop: 38754, Start Num: 63
Candidate Starts for LilMcDreamy_42:
(Start: 15 @39353 has 1 MA's), (Start: 63 @39137 has 13 MA's), (74, 39077), (77, 39056), (90, 38969), (94, 38936), (96, 38927), (119, 38831), (124, 38804),

Gene: LilSmirk_45 Start: 39854, Stop: 39465, Start Num: 57
Candidate Starts for LilSmirk_45:
(Start: 57 @39854 has 36 MA's), (72, 39797), (77, 39755), (81, 39734), (86, 39689), (88, 39674), (90, 39665), (93, 39653), (94, 39632), (108, 39569), (110, 39563), (114, 39527), (115, 39524), (126, 39485),

Gene: LittleDigger_40 Start: 38627, Stop: 38202, Start Num: 55
Candidate Starts for LittleDigger_40:
(Start: 15 @38831 has 1 MA's), (20, 38795), (32, 38741), (Start: 48 @38660 has 3 MA's), (Start: 55 @38627 has 23 MA's), (77, 38519), (87, 38444), (94, 38399), (110, 38342), (114, 38306), (119, 38288),

Gene: LittleMinkey_50 Start: 38961, Stop: 38461, Start Num: 37

Candidate Starts for LittleMinkey_50:
(1, 39951), (2, 39846), (3, 39825), (4, 39822), (5, 39807), (6, 39792), (7, 39786), (9, 39345), (11, 39186), (23, 39045), (Start: 37 @38961 has 4 MA's), (Start: 51 @38901 has 2 MA's), (Start: 61 @38865 has 5 MA's), (77, 38760), (80, 38748), (89, 38676), (119, 38529), (130, 38493),

Gene: LittleMunchkin_41 Start: 36568, Stop: 36182, Start Num: 58
Candidate Starts for LittleMunchkin_41:
(Start: 58 @36568 has 10 MA's), (77, 36460), (81, 36442), (90, 36373), (93, 36361), (97, 36328), (116, 36247), (119, 36235),

Gene: LizLemon_45 Start: 39976, Stop: 39587, Start Num: 57
Candidate Starts for LizLemon_45:
(Start: 57 @39976 has 36 MA's), (72, 39919), (77, 39877), (81, 39856), (86, 39811), (88, 39796), (90, 39787), (93, 39775), (94, 39754), (108, 39691), (110, 39685), (114, 39649), (115, 39646), (126, 39607),

Gene: Lolalove_41 Start: 39630, Stop: 39205, Start Num: 55
Candidate Starts for Lolalove_41:
(Start: 15 @39834 has 1 MA's), (18, 39810), (20, 39798), (32, 39744), (Start: 48 @39663 has 3 MA's), (Start: 55 @39630 has 23 MA's), (Start: 57 @39624 has 36 MA's), (77, 39522), (87, 39447), (90, 39435), (94, 39402), (96, 39393), (110, 39345), (114, 39309), (119, 39291),

Gene: Longacauda_45 Start: 39424, Stop: 38900, Start Num: 26
Candidate Starts for Longacauda_45:
(Start: 26 @39424 has 243 MA's), (Start: 52 @39325 has 53 MA's), (72, 39247), (73, 39232), (81, 39187),

Gene: Lopsy_45 Start: 39277, Stop: 38750, Start Num: 26
Candidate Starts for Lopsy_45:
(Start: 26 @39277 has 243 MA's), (Start: 52 @39175 has 53 MA's), (72, 39097), (73, 39082), (81, 39037),

Gene: LostAndPhound_45 Start: 39425, Stop: 38901, Start Num: 26
Candidate Starts for LostAndPhound_45:
(Start: 26 @39425 has 243 MA's), (Start: 52 @39326 has 53 MA's), (72, 39248), (73, 39233), (81, 39188),

Gene: LuckyMarjie_45 Start: 39431, Stop: 38910, Start Num: 26
Candidate Starts for LuckyMarjie_45:
(Start: 26 @39431 has 243 MA's), (Start: 52 @39335 has 53 MA's), (72, 39257), (73, 39242), (81, 39197),

Gene: Lulumae_45 Start: 39416, Stop: 38892, Start Num: 26
Candidate Starts for Lulumae_45:
(Start: 26 @39416 has 243 MA's), (Start: 52 @39317 has 53 MA's), (72, 39239), (73, 39224), (81, 39179),

Gene: Lulwa_46 Start: 39703, Stop: 39179, Start Num: 26
Candidate Starts for Lulwa_46:
(Start: 26 @39703 has 243 MA's), (Start: 52 @39604 has 53 MA's), (72, 39526), (73, 39511), (81, 39466),

Gene: Lumine_45 Start: 39412, Stop: 38888, Start Num: 26

Candidate Starts for Lumine_45:
(Start: 26 @39412 has 243 MA's), (Start: 52 @39313 has 53 MA's), (72, 39235), (73, 39220), (81, 39175),

Gene: MRabcd_45 Start: 39416, Stop: 38892, Start Num: 26
Candidate Starts for MRabcd_45:
(Start: 26 @39416 has 243 MA's), (Start: 52 @39317 has 53 MA's), (72, 39239), (73, 39224), (81, 39179),

Gene: Mag7_45 Start: 39325, Stop: 38798, Start Num: 26
Candidate Starts for Mag7_45:
(Start: 26 @39325 has 243 MA's), (Start: 52 @39223 has 53 MA's), (72, 39145), (73, 39130), (81, 39085),

Gene: Magic8_46 Start: 39760, Stop: 39233, Start Num: 26
Candidate Starts for Magic8_46:
(Start: 26 @39760 has 243 MA's), (Start: 52 @39658 has 53 MA's), (72, 39580), (73, 39565), (81, 39520),

Gene: Magpie_40 Start: 39466, Stop: 39041, Start Num: 55
Candidate Starts for Magpie_40:
(Start: 15 @39670 has 1 MA's), (18, 39646), (20, 39634), (32, 39580), (34, 39574), (Start: 48 @39499 has 3 MA's), (Start: 55 @39466 has 23 MA's), (Start: 57 @39460 has 36 MA's), (77, 39358), (87, 39283), (90, 39271), (94, 39238), (96, 39229), (110, 39181), (114, 39145), (119, 39127),

Gene: MakoManhole_41 Start: 35230, Stop: 34844, Start Num: 69
Candidate Starts for MakoManhole_41:
(Start: 51 @35284 has 2 MA's), (Start: 69 @35230 has 6 MA's), (74, 35170), (76, 35155), (87, 35062), (90, 35050), (94, 35017), (107, 34969), (111, 34960),

Gene: Mana_45 Start: 39431, Stop: 38907, Start Num: 26
Candidate Starts for Mana_45:
(Start: 26 @39431 has 243 MA's), (Start: 52 @39332 has 53 MA's), (72, 39254), (73, 39239), (81, 39194),

Gene: Manad_45 Start: 39276, Stop: 38749, Start Num: 26
Candidate Starts for Manad_45:
(Start: 26 @39276 has 243 MA's), (Start: 52 @39174 has 53 MA's), (72, 39096), (73, 39081), (81, 39036),

Gene: Mariokart_39 Start: 33175, Stop: 32774, Start Num: 58
Candidate Starts for Mariokart_39:
(Start: 58 @33175 has 10 MA's), (80, 33046), (81, 33040), (90, 32971), (92, 32962), (107, 32887), (116, 32842), (119, 32830),

Gene: Marley1013_44 Start: 40291, Stop: 39806, Start Num: 46
Candidate Starts for Marley1013_44:
(Start: 16 @40462 has 1 MA's), (35, 40360), (42, 40306), (Start: 46 @40291 has 41 MA's), (Start: 53 @40243 has 11 MA's), (71, 40153), (77, 40108), (78, 40102), (80, 40096), (86, 40045), (100, 39958), (104, 39934), (114, 39886),

Gene: Marlia_44 Start: 39446, Stop: 39009, Start Num: 53
Candidate Starts for Marlia_44:

(Start: 16 @39665 has 1 MA's), (35, 39563), (42, 39509), (Start: 46 @39494 has 41 MA's), (Start: 53 @39446 has 11 MA's), (71, 39356), (77, 39311), (78, 39305), (80, 39299), (86, 39248), (100, 39161), (104, 39137), (114, 39089),

Gene: Maru_45 Start: 39374, Stop: 38850, Start Num: 26
Candidate Starts for Maru_45:
(Start: 26 @39374 has 243 MA's), (Start: 52 @39275 has 53 MA's), (72, 39197), (73, 39182), (81, 39137),

Gene: Maskar_45 Start: 39169, Stop: 38744, Start Num: 52
Candidate Starts for Maskar_45:
(22, 39319), (24, 39310), (27, 39295), (Start: 52 @39169 has 53 MA's), (72, 39091), (73, 39076), (81, 39031),

Gene: MasterPo_45 Start: 39863, Stop: 39474, Start Num: 57
Candidate Starts for MasterPo_45:
(Start: 57 @39863 has 36 MA's), (72, 39806), (77, 39764), (81, 39743), (86, 39698), (88, 39683), (90, 39674), (93, 39662), (94, 39641), (108, 39578), (110, 39572), (114, 39536), (115, 39533), (126, 39494),

Gene: Matalotodo_46 Start: 39720, Stop: 39193, Start Num: 26
Candidate Starts for Matalotodo_46:
(Start: 26 @39720 has 243 MA's), (Start: 52 @39618 has 53 MA's), (72, 39540), (73, 39525), (81, 39480),

Gene: Mcshane_45 Start: 39417, Stop: 38890, Start Num: 26
Candidate Starts for Mcshane_45:
(Start: 26 @39417 has 243 MA's), (Start: 52 @39315 has 53 MA's), (72, 39237), (73, 39222), (81, 39177),

Gene: Mecca_45 Start: 39423, Stop: 38893, Start Num: 26
Candidate Starts for Mecca_45:
(Start: 26 @39423 has 243 MA's), (Start: 52 @39318 has 53 MA's), (72, 39240), (73, 39225), (81, 39180),

Gene: Megamind20_46 Start: 39445, Stop: 38915, Start Num: 26
Candidate Starts for Megamind20_46:
(Start: 26 @39445 has 243 MA's), (Start: 52 @39340 has 53 MA's), (72, 39262), (73, 39247), (81, 39202),

Gene: Megatron_46 Start: 39616, Stop: 39191, Start Num: 52
Candidate Starts for Megatron_46:
(22, 39766), (24, 39757), (27, 39742), (Start: 52 @39616 has 53 MA's), (72, 39538), (73, 39523), (81, 39478),

Gene: Melc17_46 Start: 39715, Stop: 39188, Start Num: 26
Candidate Starts for Melc17_46:
(Start: 26 @39715 has 243 MA's), (Start: 52 @39613 has 53 MA's), (72, 39535), (73, 39520), (81, 39475),

Gene: MelsMeow_45 Start: 39219, Stop: 38794, Start Num: 52
Candidate Starts for MelsMeow_45:

(22, 39369), (24, 39360), (27, 39345), (Start: 52 @39219 has 53 MA's), (72, 39141), (73, 39126), (81, 39081),

Gene: Mesh1_46 Start: 39732, Stop: 39205, Start Num: 26
Candidate Starts for Mesh1_46:
(Start: 26 @39732 has 243 MA's), (Start: 52 @39630 has 53 MA's), (72, 39552), (73, 39537), (81, 39492),

Gene: Mesmerelda_45 Start: 39433, Stop: 38903, Start Num: 26
Candidate Starts for Mesmerelda_45:
(Start: 26 @39433 has 243 MA's), (Start: 52 @39328 has 53 MA's), (72, 39250), (73, 39235), (81, 39190),

Gene: MichaelPhcott_45 Start: 39322, Stop: 38795, Start Num: 26
Candidate Starts for MichaelPhcott_45:
(Start: 26 @39322 has 243 MA's), (Start: 52 @39220 has 53 MA's), (72, 39142), (73, 39127), (81, 39082),

Gene: Mikota_46 Start: 39702, Stop: 39178, Start Num: 26
Candidate Starts for Mikota_46:
(Start: 26 @39702 has 243 MA's), (Start: 52 @39603 has 53 MA's), (72, 39525), (73, 39510), (81, 39465),

Gene: MiniBoss_46 Start: 39708, Stop: 39184, Start Num: 26
Candidate Starts for MiniBoss_46:
(Start: 26 @39708 has 243 MA's), (Start: 52 @39609 has 53 MA's), (72, 39531), (73, 39516), (81, 39471),

Gene: Minnow_39 Start: 37387, Stop: 36953, Start Num: 54
Candidate Starts for Minnow_39:
(34, 37486), (Start: 54 @37387 has 2 MA's), (74, 37282), (77, 37261), (85, 37201), (90, 37174), (93, 37162), (97, 37129), (114, 37054), (119, 37036),

Gene: MitKao_46 Start: 39423, Stop: 38899, Start Num: 26
Candidate Starts for MitKao_46:
(Start: 26 @39423 has 243 MA's), (Start: 52 @39324 has 53 MA's), (72, 39246), (73, 39231), (81, 39186),

Gene: Mithril_41 Start: 39634, Stop: 39209, Start Num: 55
Candidate Starts for Mithril_41:
(Start: 15 @39838 has 1 MA's), (18, 39814), (20, 39802), (32, 39748), (Start: 48 @39667 has 3 MA's), (Start: 55 @39634 has 23 MA's), (77, 39526), (87, 39451), (90, 39439), (94, 39406), (96, 39397), (110, 39349), (114, 39313), (119, 39295),

Gene: MmasiCarm_44 Start: 39495, Stop: 39010, Start Num: 46
Candidate Starts for MmasiCarm_44:
(Start: 16 @39666 has 1 MA's), (35, 39564), (42, 39510), (Start: 46 @39495 has 41 MA's), (Start: 53 @39447 has 11 MA's), (71, 39357), (77, 39312), (78, 39306), (80, 39300), (86, 39249), (100, 39162), (104, 39138), (114, 39090),

Gene: Morgushi_46 Start: 39424, Stop: 38900, Start Num: 26
Candidate Starts for Morgushi_46:

(Start: 26 @39424 has 243 MA's), (Start: 52 @39325 has 53 MA's), (72, 39247), (73, 39232), (81, 39187),

Gene: Mortcellus_43 Start: 40147, Stop: 39662, Start Num: 46
Candidate Starts for Mortcellus_43:
(Start: 16 @40318 has 1 MA's), (35, 40216), (42, 40162), (Start: 46 @40147 has 41 MA's), (Start: 53 @40099 has 11 MA's), (71, 40009), (77, 39964), (78, 39958), (80, 39952), (86, 39901), (100, 39814), (104, 39790), (114, 39742),

Gene: Morty_46 Start: 39625, Stop: 39200, Start Num: 52
Candidate Starts for Morty_46:
(22, 39775), (24, 39766), (27, 39751), (Start: 52 @39625 has 53 MA's), (72, 39547), (73, 39532), (81, 39487),

Gene: Morty007_44 Start: 40243, Stop: 39806, Start Num: 53
Candidate Starts for Morty007_44:
(Start: 16 @40462 has 1 MA's), (35, 40360), (42, 40306), (Start: 46 @40291 has 41 MA's), (Start: 53 @40243 has 11 MA's), (71, 40153), (77, 40108), (78, 40102), (80, 40096), (86, 40045), (100, 39958), (104, 39934), (114, 39886),

Gene: Mosaic_45 Start: 39417, Stop: 38905, Start Num: 26
Candidate Starts for Mosaic_45:
(Start: 26 @39417 has 243 MA's), (Start: 52 @39318 has 53 MA's), (72, 39252), (73, 39237), (81, 39192),

Gene: MossRose_41 Start: 35209, Stop: 34823, Start Num: 69
Candidate Starts for MossRose_41:
(Start: 51 @35263 has 2 MA's), (Start: 69 @35209 has 6 MA's), (74, 35149), (76, 35134), (87, 35041), (90, 35029), (94, 34996), (107, 34948), (111, 34939),

Gene: MrPhizzler_46 Start: 39432, Stop: 38908, Start Num: 26
Candidate Starts for MrPhizzler_46:
(Start: 26 @39432 has 243 MA's), (Start: 52 @39333 has 53 MA's), (72, 39255), (73, 39240), (81, 39195),

Gene: Mudslide_41 Start: 39866, Stop: 39441, Start Num: 55
Candidate Starts for Mudslide_41:
(Start: 15 @40070 has 1 MA's), (18, 40046), (20, 40034), (32, 39980), (Start: 48 @39899 has 3 MA's), (Start: 55 @39866 has 23 MA's), (77, 39758), (87, 39683), (90, 39671), (94, 39638), (96, 39629), (110, 39581), (114, 39545), (119, 39527),

Gene: Mulan_45 Start: 39342, Stop: 38917, Start Num: 52
Candidate Starts for Mulan_45:
(22, 39492), (24, 39483), (27, 39468), (Start: 52 @39342 has 53 MA's), (72, 39264), (73, 39249), (81, 39204),

Gene: Mulaychimus_44 Start: 39477, Stop: 38992, Start Num: 46
Candidate Starts for Mulaychimus_44:
(Start: 16 @39648 has 1 MA's), (35, 39546), (42, 39492), (Start: 46 @39477 has 41 MA's), (Start: 53 @39429 has 11 MA's), (71, 39339), (77, 39294), (78, 39288), (80, 39282), (86, 39231), (100, 39144), (104, 39120), (114, 39072),

Gene: Murdoc_46 Start: 39716, Stop: 39192, Start Num: 26

Candidate Starts for Murdoc_46:
(Start: 26 @39716 has 243 MA's), (Start: 52 @39617 has 53 MA's), (72, 39539), (73, 39524), (81, 39479),

Gene: Mutante_45 Start: 39324, Stop: 38899, Start Num: 52
Candidate Starts for Mutante_45:
(Start: 26 @39429 has 243 MA's), (Start: 52 @39324 has 53 MA's), (72, 39246), (73, 39231), (81, 39186),

Gene: Mysterious_44 Start: 40306, Stop: 39920, Start Num: 63
Candidate Starts for Mysterious_44:
(Start: 63 @40306 has 13 MA's), (74, 40246), (75, 40240), (77, 40225), (88, 40147), (90, 40138), (96, 40096), (97, 40093), (110, 40051), (112, 40039), (114, 40015), (119, 39997), (127, 39961),

Gene: NHagos_39 Start: 33821, Stop: 33447, Start Num: 68
Candidate Starts for NHagos_39:
(Start: 68 @33821 has 1 MA's), (77, 33740), (81, 33722), (90, 33653), (102, 33584), (114, 33533), (119, 33515),

Gene: Nacho_0046 Start: 39619, Stop: 39194, Start Num: 52
Candidate Starts for Nacho_0046:
(22, 39769), (24, 39760), (27, 39745), (Start: 52 @39619 has 53 MA's), (72, 39541), (73, 39526), (81, 39481),

Gene: Nanao_40 Start: 38592, Stop: 38167, Start Num: 55
Candidate Starts for Nanao_40:
(Start: 15 @38796 has 1 MA's), (20, 38760), (32, 38706), (Start: 48 @38625 has 3 MA's), (Start: 55 @38592 has 23 MA's), (77, 38484), (87, 38409), (90, 38397), (94, 38364), (96, 38355), (110, 38307), (114, 38271), (119, 38253),

Gene: Nangang_44 Start: 40099, Stop: 39713, Start Num: 63
Candidate Starts for Nangang_44:
(Start: 63 @40099 has 13 MA's), (70, 40078), (74, 40039), (77, 40018), (85, 39958), (88, 39940), (90, 39931), (110, 39844), (114, 39808), (119, 39790), (127, 39754),

Gene: Nathan_46 Start: 39754, Stop: 39230, Start Num: 26
Candidate Starts for Nathan_46:
(Start: 26 @39754 has 243 MA's), (Start: 52 @39655 has 53 MA's), (72, 39577), (73, 39562), (81, 39517),

Gene: Nehemiah_44 Start: 40306, Stop: 39920, Start Num: 63
Candidate Starts for Nehemiah_44:
(Start: 63 @40306 has 13 MA's), (74, 40246), (75, 40240), (77, 40225), (88, 40147), (90, 40138), (96, 40096), (97, 40093), (110, 40051), (112, 40039), (114, 40015), (119, 39997), (127, 39961),

Gene: Nehme_45 Start: 39453, Stop: 38926, Start Num: 26
Candidate Starts for Nehme_45:
(Start: 26 @39453 has 243 MA's), (Start: 52 @39351 has 53 MA's), (72, 39273), (73, 39258), (81, 39213),

Gene: Neos5_44 Start: 40306, Stop: 39821, Start Num: 46
Candidate Starts for Neos5_44:

(Start: 16 @40477 has 1 MA's), (35, 40375), (42, 40321), (Start: 46 @40306 has 41 MA's), (Start: 53 @40258 has 11 MA's), (71, 40168), (77, 40123), (78, 40117), (80, 40111), (86, 40060), (100, 39973), (104, 39949), (114, 39901),

Gene: Newman_46 Start: 39715, Stop: 39191, Start Num: 26
Candidate Starts for Newman_46:
(Start: 26 @39715 has 243 MA's), (Start: 52 @39616 has 53 MA's), (72, 39538), (73, 39523), (81, 39478),

Gene: NiaNia_48 Start: 39452, Stop: 38922, Start Num: 26
Candidate Starts for NiaNia_48:
(Start: 26 @39452 has 243 MA's), (Start: 52 @39347 has 53 MA's), (72, 39269), (73, 39254), (81, 39209),

Gene: Nicole21_46 Start: 39716, Stop: 39189, Start Num: 26
Candidate Starts for Nicole21_46:
(Start: 26 @39716 has 243 MA's), (Start: 52 @39614 has 53 MA's), (72, 39536), (73, 39521), (81, 39476),

Gene: Nigel_40 Start: 38541, Stop: 38083, Start Num: 48
Candidate Starts for Nigel_40:
(14, 38721), (Start: 15 @38709 has 1 MA's), (19, 38679), (21, 38670), (30, 38625), (32, 38619), (Start: 48 @38541 has 3 MA's), (Start: 55 @38508 has 23 MA's), (77, 38400), (87, 38325), (90, 38313), (93, 38301), (94, 38280), (110, 38223), (114, 38187), (129, 38124), (135, 38091),

Gene: Nova1_46 Start: 39369, Stop: 38845, Start Num: 26
Candidate Starts for Nova1_46:
(Start: 26 @39369 has 243 MA's), (Start: 52 @39270 has 53 MA's), (72, 39192), (73, 39177), (81, 39132),

Gene: Nozo_44 Start: 40271, Stop: 39786, Start Num: 46
Candidate Starts for Nozo_44:
(Start: 16 @40442 has 1 MA's), (35, 40340), (42, 40286), (Start: 46 @40271 has 41 MA's), (Start: 53 @40223 has 11 MA's), (71, 40133), (77, 40088), (78, 40082), (80, 40076), (86, 40025), (100, 39938), (104, 39914), (114, 39866),

Gene: Numberten_46 Start: 39722, Stop: 39198, Start Num: 26
Candidate Starts for Numberten_46:
(Start: 26 @39722 has 243 MA's), (Start: 52 @39623 has 53 MA's), (72, 39545), (73, 39530), (81, 39485),

Gene: Nyala_45 Start: 39421, Stop: 38891, Start Num: 26
Candidate Starts for Nyala_45:
(Start: 26 @39421 has 243 MA's), (Start: 52 @39316 has 53 MA's), (72, 39238), (73, 39223), (81, 39178),

Gene: OSmaximus_46 Start: 39658, Stop: 39233, Start Num: 52
Candidate Starts for OSmaximus_46:
(22, 39808), (24, 39799), (27, 39784), (Start: 52 @39658 has 53 MA's), (72, 39580), (73, 39565), (81, 39520),

Gene: Obutu_44 Start: 39495, Stop: 39010, Start Num: 46
Candidate Starts for Obutu_44:

(Start: 16 @39666 has 1 MA's), (35, 39564), (42, 39510), (Start: 46 @39495 has 41 MA's), (Start: 53 @39447 has 11 MA's), (71, 39357), (77, 39312), (78, 39306), (80, 39300), (86, 39249), (100, 39162), (104, 39138), (114, 39090),

Gene: Olak_45 Start: 39424, Stop: 38894, Start Num: 26
Candidate Starts for Olak_45:
(Start: 26 @39424 has 243 MA's), (Start: 52 @39319 has 53 MA's), (72, 39241), (73, 39226), (81, 39181),

Gene: Oline_45 Start: 39284, Stop: 38760, Start Num: 26
Candidate Starts for Oline_45:
(Start: 26 @39284 has 243 MA's), (Start: 52 @39185 has 53 MA's), (72, 39107), (73, 39092), (81, 39047),

Gene: Olive_46 Start: 39711, Stop: 39181, Start Num: 26
Candidate Starts for Olive_46:
(Start: 26 @39711 has 243 MA's), (Start: 52 @39606 has 53 MA's), (72, 39528), (73, 39513), (81, 39468),

Gene: OliverWalter_46 Start: 39733, Stop: 39203, Start Num: 26
Candidate Starts for OliverWalter_46:
(Start: 26 @39733 has 243 MA's), (Start: 52 @39628 has 53 MA's), (72, 39550), (73, 39535), (81, 39490),

Gene: Olivio_43 Start: 39316, Stop: 38879, Start Num: 53
Candidate Starts for Olivio_43:
(Start: 16 @39535 has 1 MA's), (35, 39433), (42, 39379), (Start: 46 @39364 has 41 MA's), (Start: 53 @39316 has 11 MA's), (71, 39226), (77, 39181), (78, 39175), (80, 39169), (86, 39118), (100, 39031), (104, 39007), (114, 38959),

Gene: Omniscient_46 Start: 39730, Stop: 39200, Start Num: 26
Candidate Starts for Omniscient_46:
(Start: 26 @39730 has 243 MA's), (Start: 52 @39625 has 53 MA's), (72, 39547), (73, 39532), (81, 39487),

Gene: OneBrain_47 Start: 39423, Stop: 38899, Start Num: 26
Candidate Starts for OneBrain_47:
(Start: 26 @39423 has 243 MA's), (Start: 52 @39324 has 53 MA's), (72, 39246), (73, 39231), (81, 39186),

Gene: Oosterbaan_46 Start: 39718, Stop: 39191, Start Num: 26
Candidate Starts for Oosterbaan_46:
(Start: 26 @39718 has 243 MA's), (Start: 52 @39616 has 53 MA's), (72, 39538), (73, 39523), (81, 39478),

Gene: Opia_45 Start: 39849, Stop: 39460, Start Num: 57
Candidate Starts for Opia_45:
(Start: 57 @39849 has 36 MA's), (72, 39792), (77, 39750), (81, 39729), (86, 39684), (88, 39669), (90, 39660), (93, 39648), (94, 39627), (108, 39564), (110, 39558), (114, 39522), (115, 39519), (126, 39480),

Gene: OrangeOswald_44 Start: 39512, Stop: 39027, Start Num: 46
Candidate Starts for OrangeOswald_44:

(Start: 16 @39683 has 1 MA's), (35, 39581), (42, 39527), (Start: 46 @39512 has 41 MA's), (Start: 53 @39464 has 11 MA's), (71, 39374), (77, 39329), (78, 39323), (80, 39317), (86, 39266), (100, 39179), (104, 39155), (114, 39107),

Gene: Orfeu_45 Start: 39423, Stop: 38899, Start Num: 26
Candidate Starts for Orfeu_45:
(Start: 26 @39423 has 243 MA's), (Start: 52 @39324 has 53 MA's), (72, 39246), (73, 39231), (81, 39186),

Gene: Orion_46 Start: 39614, Stop: 39189, Start Num: 52
Candidate Starts for Orion_46:
(22, 39764), (24, 39755), (27, 39740), (Start: 52 @39614 has 53 MA's), (72, 39536), (73, 39521), (81, 39476),

Gene: Orwigg_45 Start: 39417, Stop: 38887, Start Num: 26
Candidate Starts for Orwigg_45:
(Start: 26 @39417 has 243 MA's), (Start: 52 @39312 has 53 MA's), (72, 39234), (73, 39219), (81, 39174),

Gene: PG1_46 Start: 39627, Stop: 39202, Start Num: 52
Candidate Starts for PG1_46:
(22, 39777), (24, 39768), (27, 39753), (Start: 52 @39627 has 53 MA's), (72, 39549), (73, 39534), (81, 39489),

Gene: Pacifista_45 Start: 39420, Stop: 38893, Start Num: 26
Candidate Starts for Pacifista_45:
(Start: 26 @39420 has 243 MA's), (Start: 52 @39318 has 53 MA's), (72, 39240), (73, 39225), (81, 39180),

Gene: PallasAthena_45 Start: 39428, Stop: 38904, Start Num: 26
Candidate Starts for PallasAthena_45:
(Start: 26 @39428 has 243 MA's), (Start: 52 @39329 has 53 MA's), (72, 39251), (73, 39236), (81, 39191),

Gene: PenguinLover67_47 Start: 41507, Stop: 41013, Start Num: 37
Candidate Starts for PenguinLover67_47:
(23, 41591), (25, 41582), (Start: 37 @41507 has 4 MA's), (Start: 61 @41429 has 5 MA's), (77, 41327), (80, 41315),

Gene: Phaedrus_42 Start: 39384, Stop: 38947, Start Num: 53
Candidate Starts for Phaedrus_42:
(Start: 16 @39603 has 1 MA's), (35, 39501), (42, 39447), (Start: 46 @39432 has 41 MA's), (Start: 53 @39384 has 11 MA's), (71, 39294), (77, 39249), (78, 39243), (80, 39237), (86, 39186), (100, 39099), (104, 39075), (114, 39027),

Gene: Phamished_46 Start: 39622, Stop: 39197, Start Num: 52
Candidate Starts for Phamished_46:
(22, 39772), (24, 39763), (27, 39748), (Start: 52 @39622 has 53 MA's), (72, 39544), (73, 39529), (81, 39484),

Gene: Phantasmagoria_45 Start: 39861, Stop: 39472, Start Num: 57
Candidate Starts for Phantasmagoria_45:

(Start: 57 @39861 has 36 MA's), (72, 39804), (77, 39762), (81, 39741), (86, 39696), (88, 39681), (90, 39672), (93, 39660), (94, 39639), (108, 39576), (110, 39570), (114, 39534), (115, 39531), (126, 39492),

Gene: Phareon_46 Start: 39425, Stop: 38901, Start Num: 26
Candidate Starts for Phareon_46:
(Start: 26 @39425 has 243 MA's), (Start: 52 @39326 has 53 MA's), (72, 39248), (73, 39233), (81, 39188),

Gene: PhatCats2014_46 Start: 39631, Stop: 39206, Start Num: 52
Candidate Starts for PhatCats2014_46:
(22, 39781), (24, 39772), (27, 39757), (Start: 52 @39631 has 53 MA's), (72, 39553), (73, 39538), (81, 39493),

Gene: PhatLouie_46 Start: 39722, Stop: 39195, Start Num: 26
Candidate Starts for PhatLouie_46:
(Start: 26 @39722 has 243 MA's), (Start: 52 @39620 has 53 MA's), (72, 39542), (73, 39527), (81, 39482),

Gene: Phayeta_45 Start: 39329, Stop: 38892, Start Num: 53
Candidate Starts for Phayeta_45:
(Start: 16 @39548 has 1 MA's), (35, 39446), (42, 39392), (Start: 46 @39377 has 41 MA's), (Start: 53 @39329 has 11 MA's), (71, 39239), (77, 39194), (78, 39188), (80, 39182), (86, 39131), (100, 39044), (104, 39020), (114, 38972),

Gene: Phelemich_44 Start: 40305, Stop: 39919, Start Num: 63
Candidate Starts for Phelemich_44:
(Start: 63 @40305 has 13 MA's), (74, 40245), (77, 40224), (88, 40146), (90, 40137), (96, 40095), (97, 40092), (104, 40062), (110, 40050), (112, 40038), (114, 40014), (119, 39996), (127, 39960),

Gene: PhenghisKhan_45 Start: 39328, Stop: 38801, Start Num: 26
Candidate Starts for PhenghisKhan_45:
(Start: 26 @39328 has 243 MA's), (Start: 52 @39226 has 53 MA's), (72, 39148), (73, 39133), (81, 39088),

Gene: Pherdinand_46 Start: 39622, Stop: 39197, Start Num: 52
Candidate Starts for Pherdinand_46:
(22, 39772), (24, 39763), (27, 39748), (Start: 52 @39622 has 53 MA's), (72, 39544), (73, 39529), (81, 39484),

Gene: Phergie_45 Start: 39319, Stop: 38792, Start Num: 26
Candidate Starts for Phergie_45:
(Start: 26 @39319 has 243 MA's), (Start: 52 @39217 has 53 MA's), (72, 39139), (73, 39124), (81, 39079),

Gene: Philly_43 Start: 39363, Stop: 38878, Start Num: 46
Candidate Starts for Philly_43:
(Start: 16 @39534 has 1 MA's), (35, 39432), (42, 39378), (Start: 46 @39363 has 41 MA's), (Start: 53 @39315 has 11 MA's), (71, 39225), (77, 39180), (78, 39174), (80, 39168), (86, 39117), (100, 39030), (104, 39006), (114, 38958),

Gene: Phipps_46 Start: 39698, Stop: 39168, Start Num: 26
Candidate Starts for Phipps_46:

(Start: 26 @39698 has 243 MA's), (Start: 52 @39593 has 53 MA's), (72, 39515), (73, 39500), (81, 39455),

Gene: Phleuron_45 Start: 39325, Stop: 38798, Start Num: 26
Candidate Starts for Phleuron_45:
(Start: 26 @39325 has 243 MA's), (Start: 52 @39223 has 53 MA's), (72, 39145), (73, 39130), (81, 39085),

Gene: Phlyer_44 Start: 40251, Stop: 39766, Start Num: 46
Candidate Starts for Phlyer_44:
(Start: 16 @40422 has 1 MA's), (35, 40320), (42, 40266), (Start: 46 @40251 has 41 MA's), (Start: 53 @40203 has 11 MA's), (71, 40113), (77, 40068), (78, 40062), (80, 40056), (86, 40005), (100, 39918), (104, 39894), (114, 39846),

Gene: PhrankReynolds_44 Start: 39325, Stop: 38798, Start Num: 26
Candidate Starts for PhrankReynolds_44:
(Start: 26 @39325 has 243 MA's), (Start: 52 @39223 has 53 MA's), (72, 39145), (73, 39130), (81, 39085),

Gene: PhrodoBaggins_45 Start: 39610, Stop: 39185, Start Num: 52
Candidate Starts for PhrodoBaggins_45:
(22, 39760), (24, 39751), (27, 39736), (Start: 52 @39610 has 53 MA's), (72, 39532), (73, 39517), (81, 39472),

Gene: Phunky_46 Start: 39722, Stop: 39198, Start Num: 26
Candidate Starts for Phunky_46:
(Start: 26 @39722 has 243 MA's), (Start: 52 @39623 has 53 MA's), (72, 39545), (73, 39530), (81, 39485),

Gene: Piglet_0045 Start: 39829, Stop: 39305, Start Num: 26
Candidate Starts for Piglet_0045:
(Start: 26 @39829 has 243 MA's), (Start: 52 @39730 has 53 MA's), (72, 39652), (73, 39637), (81, 39592),

Gene: PinheadLarry_46 Start: 39435, Stop: 38911, Start Num: 26
Candidate Starts for PinheadLarry_46:
(Start: 26 @39435 has 243 MA's), (Start: 52 @39336 has 53 MA's), (72, 39258), (73, 39243), (81, 39198),

Gene: Pinkman_45 Start: 39278, Stop: 38754, Start Num: 26
Candidate Starts for Pinkman_45:
(Start: 26 @39278 has 243 MA's), (Start: 52 @39179 has 53 MA's), (72, 39101), (73, 39086), (81, 39041),

Gene: Pipefish_46 Start: 40904, Stop: 40419, Start Num: 46
Candidate Starts for Pipefish_46:
(Start: 16 @41075 has 1 MA's), (35, 40973), (42, 40919), (Start: 46 @40904 has 41 MA's), (Start: 53 @40856 has 11 MA's), (71, 40766), (77, 40721), (78, 40715), (80, 40709), (86, 40658), (100, 40571), (104, 40547), (114, 40499),

Gene: Pipsqueak_46 Start: 39723, Stop: 39196, Start Num: 26
Candidate Starts for Pipsqueak_46:

(Start: 26 @39723 has 243 MA's), (Start: 52 @39621 has 53 MA's), (72, 39543), (73, 39528), (81, 39483),

Gene: Placalicious_45 Start: 39416, Stop: 38889, Start Num: 26
Candidate Starts for Placalicious_45:
(Start: 26 @39416 has 243 MA's), (Start: 52 @39314 has 53 MA's), (72, 39236), (73, 39221), (81, 39176),

Gene: Plata_45 Start: 39434, Stop: 38910, Start Num: 26
Candidate Starts for Plata_45:
(Start: 26 @39434 has 243 MA's), (Start: 52 @39335 has 53 MA's), (72, 39257), (73, 39242), (81, 39197),

Gene: Plmatters_46 Start: 39719, Stop: 39195, Start Num: 26
Candidate Starts for Plmatters_46:
(Start: 26 @39719 has 243 MA's), (Start: 52 @39620 has 53 MA's), (72, 39542), (73, 39527), (81, 39482),

Gene: Podrick_46 Start: 39710, Stop: 39186, Start Num: 26
Candidate Starts for Podrick_46:
(Start: 26 @39710 has 243 MA's), (Start: 52 @39611 has 53 MA's), (72, 39533), (73, 39518), (81, 39473),

Gene: Pops_46 Start: 39734, Stop: 39210, Start Num: 26
Candidate Starts for Pops_46:
(Start: 26 @39734 has 243 MA's), (Start: 52 @39635 has 53 MA's), (72, 39557), (73, 39542), (81, 39497),

Gene: Poster_40 Start: 38593, Stop: 38168, Start Num: 55
Candidate Starts for Poster_40:
(Start: 15 @38797 has 1 MA's), (20, 38761), (32, 38707), (Start: 48 @38626 has 3 MA's), (Start: 55 @38593 has 23 MA's), (77, 38485), (87, 38410), (90, 38398), (94, 38365), (96, 38356), (110, 38308), (114, 38272), (119, 38254),

Gene: Potter_45 Start: 39434, Stop: 38910, Start Num: 26
Candidate Starts for Potter_45:
(Start: 26 @39434 has 243 MA's), (Start: 52 @39335 has 53 MA's), (72, 39257), (73, 39242), (81, 39197),

Gene: Prickles_46 Start: 39710, Stop: 39186, Start Num: 26
Candidate Starts for Prickles_46:
(Start: 26 @39710 has 243 MA's), (Start: 52 @39611 has 53 MA's), (72, 39533), (73, 39518), (81, 39473),

Gene: Prince_41 Start: 39776, Stop: 39351, Start Num: 55
Candidate Starts for Prince_41:
(Start: 15 @39980 has 1 MA's), (18, 39956), (20, 39944), (32, 39890), (Start: 48 @39809 has 3 MA's), (Start: 55 @39776 has 23 MA's), (Start: 57 @39770 has 36 MA's), (77, 39668), (87, 39593), (90, 39581), (94, 39548), (96, 39539), (110, 39491), (114, 39455), (119, 39437),

Gene: PrinceCharming_45 Start: 39969, Stop: 39580, Start Num: 57
Candidate Starts for PrinceCharming_45:

(Start: 57 @39969 has 36 MA's), (72, 39912), (77, 39870), (81, 39849), (86, 39804), (88, 39789), (90, 39780), (93, 39768), (94, 39747), (108, 39684), (110, 39678), (114, 39642), (115, 39639), (126, 39600),

Gene: ProfessorX_46 Start: 39711, Stop: 39181, Start Num: 26
Candidate Starts for ProfessorX_46:
(Start: 26 @39711 has 243 MA's), (Start: 52 @39606 has 53 MA's), (72, 39528), (73, 39513), (81, 39468),

Gene: Puhltonio_46 Start: 39726, Stop: 39202, Start Num: 26
Candidate Starts for Puhltonio_46:
(Start: 26 @39726 has 243 MA's), (Start: 52 @39627 has 53 MA's), (72, 39549), (73, 39534), (81, 39489),

Gene: Pupper_184 Start: 132729, Stop: 133103, Start Num: 65
Candidate Starts for Pupper_184:
(Start: 65 @132729 has 4 MA's), (74, 132783), (84, 132846), (86, 132867), (114, 133008), (117, 133020), (134, 133092),

Gene: QueenBeane_46 Start: 39716, Stop: 39192, Start Num: 26
Candidate Starts for QueenBeane_46:
(Start: 26 @39716 has 243 MA's), (Start: 52 @39617 has 53 MA's), (72, 39539), (73, 39524), (81, 39479),

Gene: QueenPie_40 Start: 39717, Stop: 39292, Start Num: 55
Candidate Starts for QueenPie_40:
(Start: 15 @39921 has 1 MA's), (18, 39897), (19, 39891), (20, 39885), (32, 39831), (Start: 48 @39750 has 3 MA's), (Start: 55 @39717 has 23 MA's), (77, 39609), (87, 39534), (90, 39522), (94, 39489), (96, 39480), (110, 39432), (114, 39396), (119, 39378),

Gene: Quesadilla_47 Start: 41493, Stop: 40987, Start Num: 37
Candidate Starts for Quesadilla_47:
(23, 41577), (Start: 37 @41493 has 4 MA's), (Start: 61 @41406 has 5 MA's), (77, 41304), (108, 41115), (119, 41055), (130, 41019),

Gene: Quisquiliae_46 Start: 39747, Stop: 39220, Start Num: 26
Candidate Starts for Quisquiliae_46:
(Start: 26 @39747 has 243 MA's), (Start: 52 @39645 has 53 MA's), (72, 39567), (73, 39552), (81, 39507),

Gene: RagingRooster_44 Start: 39513, Stop: 39028, Start Num: 46
Candidate Starts for RagingRooster_44:
(Start: 16 @39684 has 1 MA's), (35, 39582), (42, 39528), (Start: 46 @39513 has 41 MA's), (Start: 53 @39465 has 11 MA's), (71, 39375), (77, 39330), (78, 39324), (80, 39318), (86, 39267), (100, 39180), (104, 39156), (114, 39108),

Gene: RawrgerThat_42 Start: 39621, Stop: 39196, Start Num: 55
Candidate Starts for RawrgerThat_42:
(Start: 15 @39825 has 1 MA's), (20, 39789), (32, 39735), (Start: 48 @39654 has 3 MA's), (Start: 55 @39621 has 23 MA's), (Start: 57 @39615 has 36 MA's), (77, 39513), (87, 39438), (90, 39426), (94, 39393), (96, 39384), (110, 39336), (114, 39300), (119, 39282),

Gene: Reccee_45 Start: 40217, Stop: 39831, Start Num: 63

Candidate Starts for Reccee_45:
(29, 40355), (Start: 63 @40217 has 13 MA's), (70, 40196), (74, 40157), (77, 40136), (85, 40076), (90, 40049), (110, 39962), (114, 39926), (119, 39908), (127, 39872), (132, 39851),

Gene: RedMaple_45 Start: 39624, Stop: 39199, Start Num: 52
Candidate Starts for RedMaple_45:
(22, 39774), (24, 39765), (27, 39750), (Start: 52 @39624 has 53 MA's), (72, 39546), (73, 39531), (81, 39486),

Gene: RedRaider89_47 Start: 39943, Stop: 39419, Start Num: 26
Candidate Starts for RedRaider89_47:
(Start: 26 @39943 has 243 MA's), (Start: 52 @39844 has 53 MA's), (72, 39766), (73, 39751), (81, 39706),

Gene: Renkei_40 Start: 38627, Stop: 38202, Start Num: 55
Candidate Starts for Renkei_40:
(Start: 15 @38831 has 1 MA's), (20, 38795), (32, 38741), (Start: 48 @38660 has 3 MA's), (Start: 55 @38627 has 23 MA's), (77, 38519), (87, 38444), (94, 38399), (110, 38342), (114, 38306), (119, 38288),

Gene: Reprobate_45 Start: 40310, Stop: 39924, Start Num: 63
Candidate Starts for Reprobate_45:
(Start: 63 @40310 has 13 MA's), (74, 40250), (77, 40229), (88, 40151), (90, 40142), (96, 40100), (97, 40097), (104, 40067), (110, 40055), (112, 40043), (114, 40019), (119, 40001), (127, 39965),

Gene: Rhinoforte_45 Start: 39970, Stop: 39581, Start Num: 57
Candidate Starts for Rhinoforte_45:
(Start: 57 @39970 has 36 MA's), (72, 39913), (77, 39871), (81, 39850), (86, 39805), (88, 39790), (90, 39781), (93, 39769), (94, 39748), (108, 39685), (110, 39679), (114, 39643), (115, 39640), (126, 39601),

Gene: Rich_43 Start: 39907, Stop: 39521, Start Num: 63
Candidate Starts for Rich_43:
(Start: 63 @39907 has 13 MA's), (70, 39886), (74, 39847), (77, 39826), (85, 39766), (90, 39739), (110, 39652), (114, 39616), (124, 39571),

Gene: Ricotta_45 Start: 39439, Stop: 38918, Start Num: 26
Candidate Starts for Ricotta_45:
(Start: 26 @39439 has 243 MA's), (Start: 52 @39343 has 53 MA's), (72, 39265), (73, 39250), (81, 39205),

Gene: Riggan_46 Start: 39706, Stop: 39179, Start Num: 26
Candidate Starts for Riggan_46:
(Start: 26 @39706 has 243 MA's), (Start: 52 @39604 has 53 MA's), (72, 39526), (73, 39511), (81, 39466),

Gene: Rimu_46 Start: 39452, Stop: 38928, Start Num: 26
Candidate Starts for Rimu_46:
(Start: 26 @39452 has 243 MA's), (Start: 52 @39353 has 53 MA's), (72, 39275), (73, 39260), (81, 39215),

Gene: Rinkes_45 Start: 40821, Stop: 40423, Start Num: 61
Candidate Starts for Rinkes_45:

(12, 41061), (Start: 15 @41028 has 1 MA's), (19, 40998), (Start: 61 @40821 has 5 MA's), (77, 40752), (81, 40734), (92, 40656), (95, 40626), (119, 40509), (130, 40473),

Gene: Rita130_45 Start: 40037, Stop: 39651, Start Num: 63
Candidate Starts for Rita130_45:
(29, 40175), (Start: 63 @40037 has 13 MA's), (70, 40016), (74, 39977), (77, 39956), (85, 39896), (90, 39869), (110, 39782), (114, 39746), (119, 39728), (127, 39692), (132, 39671),

Gene: Rita1961_44 Start: 39496, Stop: 39011, Start Num: 46
Candidate Starts for Rita1961_44:
(Start: 16 @39667 has 1 MA's), (35, 39565), (42, 39511), (Start: 46 @39496 has 41 MA's), (Start: 53 @39448 has 11 MA's), (71, 39358), (77, 39313), (78, 39307), (80, 39301), (86, 39250), (100, 39163), (104, 39139), (114, 39091),

Gene: Riverton_46 Start: 39724, Stop: 39200, Start Num: 26
Candidate Starts for Riverton_46:
(Start: 26 @39724 has 243 MA's), (Start: 52 @39625 has 53 MA's), (72, 39547), (73, 39532), (81, 39487),

Gene: Robyn_45 Start: 39290, Stop: 38763, Start Num: 26
Candidate Starts for Robyn_45:
(Start: 26 @39290 has 243 MA's), (Start: 52 @39188 has 53 MA's), (72, 39110), (73, 39095), (81, 39050),

Gene: Roliet_46 Start: 39718, Stop: 39188, Start Num: 26
Candidate Starts for Roliet_46:
(Start: 26 @39718 has 243 MA's), (Start: 52 @39613 has 53 MA's), (72, 39535), (73, 39520), (81, 39475),

Gene: RomaT_44 Start: 40286, Stop: 39801, Start Num: 46
Candidate Starts for RomaT_44:
(Start: 16 @40457 has 1 MA's), (35, 40355), (42, 40301), (Start: 46 @40286 has 41 MA's), (Start: 53 @40238 has 11 MA's), (71, 40148), (77, 40103), (78, 40097), (80, 40091), (86, 40040), (100, 39953), (104, 39929), (114, 39881),

Gene: Roscoe_47 Start: 39956, Stop: 39426, Start Num: 26
Candidate Starts for Roscoe_47:
(Start: 26 @39956 has 243 MA's), (Start: 52 @39851 has 53 MA's), (72, 39773), (73, 39758), (81, 39713),

Gene: Rosebush_44 Start: 39977, Stop: 39588, Start Num: 57
Candidate Starts for Rosebush_44:
(Start: 57 @39977 has 36 MA's), (72, 39920), (77, 39878), (81, 39857), (86, 39812), (88, 39797), (90, 39788), (93, 39776), (94, 39755), (108, 39692), (110, 39686), (114, 39650), (115, 39647), (126, 39608),

Gene: Roy17_46 Start: 39416, Stop: 38892, Start Num: 26
Candidate Starts for Roy17_46:
(Start: 26 @39416 has 243 MA's), (Start: 52 @39317 has 53 MA's), (72, 39239), (73, 39224), (81, 39179),

Gene: SCentae_183 Start: 132921, Stop: 133295, Start Num: 65
Candidate Starts for SCentae_183:

(Start: 65 @132921 has 4 MA's), (74, 132975), (84, 133038), (86, 133059), (114, 133200), (117, 133212), (134, 133284),

Gene: SDcharge11_46 Start: 39696, Stop: 39166, Start Num: 26
Candidate Starts for SDcharge11_46:
(Start: 26 @39696 has 243 MA's), (Start: 52 @39591 has 53 MA's), (72, 39513), (73, 39498), (81, 39453),

Gene: Sabella_44 Start: 39854, Stop: 39465, Start Num: 57
Candidate Starts for Sabella_44:
(Start: 57 @39854 has 36 MA's), (72, 39797), (77, 39755), (81, 39734), (86, 39689), (88, 39674), (90, 39665), (93, 39653), (94, 39632), (108, 39569), (110, 39563), (114, 39527), (115, 39524), (126, 39485),

Gene: Saguaro_46 Start: 41034, Stop: 40648, Start Num: 66
Candidate Starts for Saguaro_46:
(Start: 66 @41034 has 1 MA's), (77, 40953), (88, 40875), (94, 40833), (96, 40824), (98, 40815),

Gene: Salazzle_46 Start: 39190, Stop: 38765, Start Num: 52
Candidate Starts for Salazzle_46:
(Start: 26 @39289 has 243 MA's), (Start: 52 @39190 has 53 MA's), (72, 39112), (73, 39097), (81, 39052),

Gene: SallyH_46 Start: 39627, Stop: 39202, Start Num: 52
Candidate Starts for SallyH_46:
(22, 39777), (24, 39768), (27, 39753), (Start: 52 @39627 has 53 MA's), (72, 39549), (73, 39534), (81, 39489),

Gene: Samaymay_46 Start: 39716, Stop: 39192, Start Num: 26
Candidate Starts for Samaymay_46:
(Start: 26 @39716 has 243 MA's), (Start: 52 @39617 has 53 MA's), (72, 39539), (73, 39524), (81, 39479),

Gene: SassyCat97_45 Start: 39422, Stop: 38898, Start Num: 26
Candidate Starts for SassyCat97_45:
(Start: 26 @39422 has 243 MA's), (Start: 52 @39323 has 53 MA's), (72, 39245), (73, 39230), (81, 39185),

Gene: Schadenfreude_45 Start: 39264, Stop: 38749, Start Num: 26
Candidate Starts for Schadenfreude_45:
(Start: 26 @39264 has 243 MA's), (Start: 52 @39162 has 53 MA's), (72, 39096), (73, 39081), (81, 39036),

Gene: Schueller_45 Start: 39435, Stop: 38911, Start Num: 26
Candidate Starts for Schueller_45:
(Start: 26 @39435 has 243 MA's), (Start: 52 @39336 has 53 MA's), (72, 39258), (73, 39243), (81, 39198),

Gene: Scoot17C_46 Start: 39616, Stop: 39191, Start Num: 52
Candidate Starts for Scoot17C_46:
(22, 39766), (24, 39757), (27, 39742), (Start: 52 @39616 has 53 MA's), (72, 39538), (73, 39523), (81, 39478),

Gene: Scrick_46 Start: 39446, Stop: 38916, Start Num: 26
Candidate Starts for Scrick_46:
(Start: 26 @39446 has 243 MA's), (Start: 52 @39341 has 53 MA's), (72, 39263), (73, 39248), (81, 39203),

Gene: Selr12_46 Start: 39449, Stop: 38919, Start Num: 26
Candidate Starts for Selr12_46:
(Start: 26 @39449 has 243 MA's), (Start: 52 @39344 has 53 MA's), (72, 39266), (73, 39251), (81, 39206),

Gene: Septica_45 Start: 39726, Stop: 39202, Start Num: 26
Candidate Starts for Septica_45:
(Start: 26 @39726 has 243 MA's), (Start: 52 @39627 has 53 MA's), (72, 39549), (73, 39534), (81, 39489),

Gene: Serendipitous_44 Start: 39865, Stop: 39479, Start Num: 63
Candidate Starts for Serendipitous_44:
(49, 39916), (Start: 63 @39865 has 13 MA's), (70, 39844), (74, 39805), (77, 39784), (85, 39724), (90, 39697), (110, 39610), (114, 39574), (119, 39556), (127, 39520),

Gene: Serendipity_46 Start: 39740, Stop: 39216, Start Num: 26
Candidate Starts for Serendipity_46:
(Start: 26 @39740 has 243 MA's), (Start: 52 @39641 has 53 MA's), (72, 39563), (73, 39548), (81, 39503),

Gene: Serpentine_0046 Start: 39721, Stop: 39197, Start Num: 26
Candidate Starts for Serpentine_0046:
(Start: 26 @39721 has 243 MA's), (Start: 52 @39622 has 53 MA's), (72, 39544), (73, 39529), (81, 39484),

Gene: ShadowBud_46 Start: 39744, Stop: 39217, Start Num: 26
Candidate Starts for ShadowBud_46:
(Start: 26 @39744 has 243 MA's), (Start: 52 @39642 has 53 MA's), (72, 39564), (73, 39549), (81, 39504),

Gene: Shatter_39 Start: 33273, Stop: 32851, Start Num: 58
Candidate Starts for Shatter_39:
(Start: 58 @33273 has 10 MA's), (77, 33156), (81, 33138), (87, 33081), (102, 32994), (107, 32979), (116, 32934), (125, 32892),

Gene: Sheila_46 Start: 39758, Stop: 39234, Start Num: 26
Candidate Starts for Sheila_46:
(Start: 26 @39758 has 243 MA's), (Start: 52 @39659 has 53 MA's), (72, 39581), (73, 39566), (81, 39521),

Gene: Shenandoah_44 Start: 39437, Stop: 39000, Start Num: 53
Candidate Starts for Shenandoah_44:
(Start: 16 @39656 has 1 MA's), (35, 39554), (42, 39500), (Start: 46 @39485 has 41 MA's), (Start: 53 @39437 has 11 MA's), (71, 39347), (77, 39302), (78, 39296), (80, 39290), (86, 39239), (100, 39152), (104, 39128), (114, 39080),

Gene: Shenyu_44 Start: 40099, Stop: 39713, Start Num: 63
Candidate Starts for Shenyu_44:

(Start: 63 @40099 has 13 MA's), (70, 40078), (74, 40039), (77, 40018), (85, 39958), (88, 39940), (90, 39931), (110, 39844), (114, 39808), (119, 39790), (127, 39754),

Gene: ShiVal_46 Start: 39720, Stop: 39190, Start Num: 26
Candidate Starts for ShiVal_46:
(Start: 26 @39720 has 243 MA's), (Start: 52 @39615 has 53 MA's), (72, 39537), (73, 39522), (81, 39477),

Gene: Sigman_46 Start: 39607, Stop: 39182, Start Num: 52
Candidate Starts for Sigman_46:
(22, 39757), (24, 39748), (27, 39733), (Start: 52 @39607 has 53 MA's), (72, 39529), (73, 39514), (81, 39469),

Gene: SilverBell_46 Start: 39739, Stop: 39212, Start Num: 26
Candidate Starts for SilverBell_46:
(Start: 26 @39739 has 243 MA's), (Start: 52 @39637 has 53 MA's), (72, 39559), (73, 39544), (81, 39499),

Gene: Simielle_45 Start: 39409, Stop: 38885, Start Num: 26
Candidate Starts for Simielle_45:
(Start: 26 @39409 has 243 MA's), (Start: 52 @39310 has 53 MA's), (72, 39232), (73, 39217), (81, 39172),

Gene: SirBeauregard_46 Start: 39416, Stop: 38889, Start Num: 26
Candidate Starts for SirBeauregard_46:
(Start: 26 @39416 has 243 MA's), (Start: 52 @39314 has 53 MA's), (72, 39236), (73, 39221), (81, 39176),

Gene: SirJeffery_45 Start: 40036, Stop: 39650, Start Num: 63
Candidate Starts for SirJeffery_45:
(29, 40174), (Start: 63 @40036 has 13 MA's), (70, 40015), (74, 39976), (77, 39955), (85, 39895), (90, 39868), (110, 39781), (114, 39745), (119, 39727), (127, 39691), (132, 39670),

Gene: Sisko_39 Start: 34043, Stop: 33624, Start Num: 58
Candidate Starts for Sisko_39:
(Start: 58 @34043 has 10 MA's), (77, 33926), (81, 33908), (116, 33707), (123, 33671), (125, 33665),

Gene: Skippy_46 Start: 39704, Stop: 39180, Start Num: 26
Candidate Starts for Skippy_46:
(Start: 26 @39704 has 243 MA's), (Start: 52 @39605 has 53 MA's), (72, 39527), (73, 39512), (81, 39467),

Gene: Skog_16 Start: 8706, Stop: 9095, Start Num: 65
Candidate Starts for Skog_16:
(Start: 65 @8706 has 4 MA's), (77, 8793), (81, 8811), (83, 8832), (84, 8835), (86, 8856), (114, 9000), (121, 9024),

Gene: Slatt_46 Start: 39730, Stop: 39206, Start Num: 26
Candidate Starts for Slatt_46:
(Start: 26 @39730 has 243 MA's), (Start: 52 @39631 has 53 MA's), (72, 39553), (73, 39538), (81, 39493),

Gene: SlippinJimmy_44 Start: 40230, Stop: 39793, Start Num: 53

Candidate Starts for SlippinJimmy_44:
(Start: 16 @40449 has 1 MA's), (35, 40347), (42, 40293), (Start: 46 @40278 has 41 MA's), (Start: 53 @40230 has 11 MA's), (71, 40140), (77, 40095), (78, 40089), (80, 40083), (86, 40032), (100, 39945), (104, 39921), (114, 39873),

Gene: Soile_46 Start: 39334, Stop: 38909, Start Num: 52
Candidate Starts for Soile_46:
(Start: 26 @39433 has 243 MA's), (Start: 52 @39334 has 53 MA's), (72, 39256), (73, 39241), (81, 39196),

Gene: Solosis_45 Start: 39431, Stop: 38907, Start Num: 26
Candidate Starts for Solosis_45:
(Start: 26 @39431 has 243 MA's), (Start: 52 @39332 has 53 MA's), (72, 39254), (73, 39239), (81, 39194),

Gene: Sophia_45 Start: 39431, Stop: 38907, Start Num: 26
Candidate Starts for Sophia_45:
(Start: 26 @39431 has 243 MA's), (Start: 52 @39332 has 53 MA's), (72, 39254), (73, 39239), (81, 39194),

Gene: Soto_46 Start: 39730, Stop: 39200, Start Num: 26
Candidate Starts for Soto_46:
(Start: 26 @39730 has 243 MA's), (Start: 52 @39625 has 53 MA's), (72, 39547), (73, 39532), (81, 39487),

Gene: Sour_44 Start: 37942, Stop: 37568, Start Num: 64
Candidate Starts for Sour_44:
(31, 38089), (39, 38026), (Start: 64 @37942 has 1 MA's), (77, 37858), (81, 37840), (90, 37771), (91, 37768), (110, 37684), (116, 37645), (133, 37582),

Gene: Spartan300_46 Start: 39716, Stop: 39186, Start Num: 26
Candidate Starts for Spartan300_46:
(Start: 26 @39716 has 243 MA's), (Start: 52 @39611 has 53 MA's), (72, 39533), (73, 39518), (81, 39473),

Gene: Squid_46 Start: 39422, Stop: 38898, Start Num: 26
Candidate Starts for Squid_46:
(Start: 26 @39422 has 243 MA's), (Start: 52 @39323 has 53 MA's), (72, 39245), (73, 39230), (81, 39185),

Gene: Squiggle_46 Start: 39440, Stop: 38910, Start Num: 26
Candidate Starts for Squiggle_46:
(Start: 26 @39440 has 243 MA's), (Start: 52 @39335 has 53 MA's), (72, 39257), (73, 39242), (81, 39197),

Gene: StAugustine_57 Start: 48208, Stop: 47849, Start Num: 67
Candidate Starts for StAugustine_57:
(40, 48319), (45, 48304), (Start: 48 @48274 has 3 MA's), (Start: 67 @48208 has 4 MA's), (77, 48115), (92, 48019), (99, 47983), (114, 47917), (119, 47899), (120, 47896),

Gene: Stinger_40 Start: 38231, Stop: 37773, Start Num: 48
Candidate Starts for Stinger_40:

(Start: 15 @38399 has 1 MA's), (32, 38309), (Start: 48 @38231 has 3 MA's), (Start: 55 @38198 has 23 MA's), (77, 38090), (87, 38015), (90, 38003), (93, 37991), (94, 37970), (96, 37961), (110, 37913), (114, 37877), (129, 37814), (135, 37781),

Gene: StinkyVeggy_46 Start: 40176, Stop: 39790, Start Num: 63
Candidate Starts for StinkyVeggy_46:
(Start: 63 @40176 has 13 MA's), (70, 40155), (74, 40116), (77, 40095), (85, 40035), (88, 40017), (90, 40008), (114, 39885), (119, 39867), (127, 39831),

Gene: Struggle_45 Start: 39272, Stop: 38748, Start Num: 26
Candidate Starts for Struggle_45:
(Start: 26 @39272 has 243 MA's), (Start: 52 @39173 has 53 MA's), (72, 39095), (73, 39080), (81, 39035),

Gene: Suffolk_46 Start: 39721, Stop: 39197, Start Num: 26
Candidate Starts for Suffolk_46:
(Start: 26 @39721 has 243 MA's), (Start: 52 @39622 has 53 MA's), (72, 39544), (73, 39529), (81, 39484),

Gene: Suigeneris_45 Start: 40039, Stop: 39653, Start Num: 63
Candidate Starts for Suigeneris_45:
(29, 40177), (Start: 63 @40039 has 13 MA's), (70, 40018), (74, 39979), (77, 39958), (85, 39898), (90, 39871), (110, 39784), (114, 39748), (119, 39730), (127, 39694), (132, 39673),

Gene: Surely_46 Start: 39727, Stop: 39200, Start Num: 26
Candidate Starts for Surely_46:
(Start: 26 @39727 has 243 MA's), (Start: 52 @39625 has 53 MA's), (72, 39547), (73, 39532), (81, 39487),

Gene: SwainyDoc_44 Start: 39507, Stop: 39022, Start Num: 46
Candidate Starts for SwainyDoc_44:
(Start: 16 @39678 has 1 MA's), (35, 39576), (42, 39522), (Start: 46 @39507 has 41 MA's), (Start: 53 @39459 has 11 MA's), (71, 39369), (77, 39324), (78, 39318), (80, 39312), (86, 39261), (100, 39174), (104, 39150), (114, 39102),

Gene: Swiphy_46 Start: 39722, Stop: 39195, Start Num: 26
Candidate Starts for Swiphy_46:
(Start: 26 @39722 has 243 MA's), (Start: 52 @39620 has 53 MA's), (72, 39542), (73, 39527), (81, 39482),

Gene: Swish_46 Start: 39608, Stop: 39183, Start Num: 52
Candidate Starts for Swish_46:
(22, 39758), (24, 39749), (27, 39734), (Start: 52 @39608 has 53 MA's), (72, 39530), (73, 39515), (81, 39470),

Gene: SynergyX_44 Start: 39513, Stop: 39028, Start Num: 46
Candidate Starts for SynergyX_44:
(Start: 16 @39684 has 1 MA's), (35, 39582), (42, 39528), (Start: 46 @39513 has 41 MA's), (Start: 53 @39465 has 11 MA's), (71, 39375), (77, 39330), (78, 39324), (80, 39318), (86, 39267), (100, 39180), (104, 39156), (114, 39108),

Gene: TA17A_46 Start: 39844, Stop: 39455, Start Num: 57
Candidate Starts for TA17A_46:

(Start: 57 @39844 has 36 MA's), (72, 39787), (77, 39745), (81, 39724), (86, 39679), (88, 39664), (90, 39655), (93, 39643), (94, 39622), (108, 39559), (110, 39553), (114, 39517), (115, 39514), (126, 39475),

Gene: TallGrassMM_46 Start: 39346, Stop: 38822, Start Num: 26
Candidate Starts for TallGrassMM_46:
(Start: 26 @39346 has 243 MA's), (Start: 52 @39247 has 53 MA's), (72, 39169), (73, 39154), (81, 39109),

Gene: Taraxa_46 Start: 38925, Stop: 38398, Start Num: 26
Candidate Starts for Taraxa_46:
(Start: 26 @38925 has 243 MA's), (Start: 52 @38823 has 53 MA's), (72, 38745), (73, 38730), (81, 38685),

Gene: Telesworld_45 Start: 39419, Stop: 38895, Start Num: 26
Candidate Starts for Telesworld_45:
(Start: 26 @39419 has 243 MA's), (Start: 52 @39320 has 53 MA's), (72, 39242), (73, 39227), (81, 39182),

Gene: Thonko_44 Start: 37338, Stop: 36958, Start Num: 63
Candidate Starts for Thonko_44:
(29, 37470), (43, 37404), (Start: 63 @37338 has 13 MA's), (77, 37257), (81, 37239),

Gene: Thora_46 Start: 39726, Stop: 39199, Start Num: 26
Candidate Starts for Thora_46:
(Start: 26 @39726 has 243 MA's), (Start: 52 @39624 has 53 MA's), (72, 39546), (73, 39531), (81, 39486),

Gene: ThreeOh3D2_46 Start: 39622, Stop: 39197, Start Num: 52
Candidate Starts for ThreeOh3D2_46:
(22, 39772), (24, 39763), (27, 39748), (Start: 52 @39622 has 53 MA's), (72, 39544), (73, 39529), (81, 39484),

Gene: Thunderbird_45 Start: 39427, Stop: 38903, Start Num: 26
Candidate Starts for Thunderbird_45:
(Start: 26 @39427 has 243 MA's), (Start: 52 @39328 has 53 MA's), (72, 39250), (73, 39235), (81, 39190),

Gene: Timmi_45 Start: 39432, Stop: 38908, Start Num: 26
Candidate Starts for Timmi_45:
(Start: 26 @39432 has 243 MA's), (Start: 52 @39333 has 53 MA's), (72, 39255), (73, 39240), (81, 39195),

Gene: Tinciduntsolum_46 Start: 39982, Stop: 39593, Start Num: 57
Candidate Starts for Tinciduntsolum_46:
(Start: 57 @39982 has 36 MA's), (72, 39925), (77, 39883), (81, 39862), (86, 39817), (88, 39802), (90, 39793), (93, 39781), (94, 39760), (108, 39697), (110, 39691), (114, 39655), (115, 39652), (126, 39613),

Gene: TinyTerror_44 Start: 39498, Stop: 39013, Start Num: 46
Candidate Starts for TinyTerror_44:
(Start: 16 @39669 has 1 MA's), (35, 39567), (42, 39513), (Start: 46 @39498 has 41 MA's), (Start: 53 @39450 has 11 MA's), (71, 39360), (77, 39315), (78, 39309), (80, 39303), (86, 39252), (100, 39165),

(104, 39141), (114, 39093),

Gene: TomBombadil_46 Start: 39717, Stop: 39193, Start Num: 26
Candidate Starts for TomBombadil_46:
(Start: 26 @39717 has 243 MA's), (Start: 52 @39618 has 53 MA's), (72, 39540), (73, 39525), (81, 39480),

Gene: Tomlarah_46 Start: 39714, Stop: 39184, Start Num: 26
Candidate Starts for Tomlarah_46:
(Start: 26 @39714 has 243 MA's), (Start: 52 @39609 has 53 MA's), (72, 39531), (73, 39516), (81, 39471),

Gene: Toni_45 Start: 39424, Stop: 38900, Start Num: 26
Candidate Starts for Toni_45:
(Start: 26 @39424 has 243 MA's), (Start: 52 @39325 has 53 MA's), (72, 39247), (73, 39232), (81, 39187),

Gene: TooFast2Furius_47 Start: 39956, Stop: 39429, Start Num: 26
Candidate Starts for TooFast2Furius_47:
(Start: 26 @39956 has 243 MA's), (Start: 52 @39854 has 53 MA's), (72, 39776), (73, 39761), (81, 39716),

Gene: Tooj_46 Start: 39781, Stop: 39257, Start Num: 26
Candidate Starts for Tooj_46:
(Start: 26 @39781 has 243 MA's), (Start: 52 @39682 has 53 MA's), (72, 39604), (73, 39589), (81, 39544),

Gene: TraderJ_41 Start: 35242, Stop: 34853, Start Num: 69
Candidate Starts for TraderJ_41:
(17, 35491), (Start: 69 @35242 has 6 MA's), (74, 35182), (76, 35167), (87, 35074), (90, 35062), (94, 35029), (107, 34981), (111, 34972), (119, 34924),

Gene: Tres_45 Start: 39857, Stop: 39468, Start Num: 57
Candidate Starts for Tres_45:
(Start: 57 @39857 has 36 MA's), (72, 39800), (77, 39758), (81, 39737), (86, 39692), (88, 39677), (90, 39668), (93, 39656), (94, 39635), (108, 39572), (110, 39566), (114, 39530), (115, 39527), (126, 39488),

Gene: Triad_46 Start: 38585, Stop: 38061, Start Num: 26
Candidate Starts for Triad_46:
(Start: 26 @38585 has 243 MA's), (Start: 52 @38486 has 53 MA's), (72, 38408), (73, 38393), (81, 38348),

Gene: True_45 Start: 39424, Stop: 38897, Start Num: 26
Candidate Starts for True_45:
(Start: 26 @39424 has 243 MA's), (Start: 52 @39322 has 53 MA's), (72, 39244), (73, 39229), (81, 39184),

Gene: Trypo_46 Start: 39618, Stop: 39193, Start Num: 52
Candidate Starts for Trypo_46:
(22, 39768), (24, 39759), (27, 39744), (Start: 52 @39618 has 53 MA's), (72, 39540), (73, 39525), (81, 39480),

Gene: Tydolla_44 Start: 40199, Stop: 39762, Start Num: 53
Candidate Starts for Tydolla_44:
(Start: 16 @40418 has 1 MA's), (35, 40316), (42, 40262), (Start: 46 @40247 has 41 MA's), (Start: 53 @40199 has 11 MA's), (71, 40109), (77, 40064), (78, 40058), (80, 40052), (86, 40001), (100, 39914), (104, 39890), (114, 39842),

Gene: TyrionL_45 Start: 39280, Stop: 38756, Start Num: 26
Candidate Starts for TyrionL_45:
(Start: 26 @39280 has 243 MA's), (Start: 52 @39181 has 53 MA's), (72, 39103), (73, 39088), (81, 39043),

Gene: UAch1_46 Start: 39733, Stop: 39206, Start Num: 26
Candidate Starts for UAch1_46:
(Start: 26 @39733 has 243 MA's), (Start: 52 @39631 has 53 MA's), (72, 39553), (73, 39538), (81, 39493),

Gene: UncleHowie_46 Start: 39423, Stop: 38896, Start Num: 26
Candidate Starts for UncleHowie_46:
(Start: 26 @39423 has 243 MA's), (Start: 52 @39321 has 53 MA's), (72, 39243), (73, 39228), (81, 39183),

Gene: Usavi_46 Start: 39721, Stop: 39197, Start Num: 26
Candidate Starts for Usavi_46:
(Start: 26 @39721 has 243 MA's), (Start: 52 @39622 has 53 MA's), (72, 39544), (73, 39529), (81, 39484),

Gene: Vaishali24_45 Start: 39382, Stop: 38858, Start Num: 26
Candidate Starts for Vaishali24_45:
(Start: 26 @39382 has 243 MA's), (Start: 52 @39283 has 53 MA's), (72, 39205), (73, 39190), (81, 39145),

Gene: Valjean_46 Start: 39719, Stop: 39189, Start Num: 26
Candidate Starts for Valjean_46:
(Start: 26 @39719 has 243 MA's), (Start: 52 @39614 has 53 MA's), (72, 39536), (73, 39521), (81, 39476),

Gene: Vaticameos_42 Start: 37411, Stop: 36887, Start Num: 26
Candidate Starts for Vaticameos_42:
(Start: 26 @37411 has 243 MA's), (Start: 52 @37312 has 53 MA's), (72, 37234), (73, 37219), (81, 37174),

Gene: Vectra_45 Start: 39280, Stop: 38756, Start Num: 26
Candidate Starts for Vectra_45:
(Start: 26 @39280 has 243 MA's), (Start: 52 @39181 has 53 MA's), (72, 39103), (73, 39088), (81, 39043),

Gene: Veritas_45 Start: 39286, Stop: 38759, Start Num: 26
Candidate Starts for Veritas_45:
(Start: 26 @39286 has 243 MA's), (Start: 52 @39184 has 53 MA's), (72, 39106), (73, 39091), (81, 39046),

Gene: Vic9_00044 Start: 40363, Stop: 39974, Start Num: 57
Candidate Starts for Vic9_00044:

(Start: 57 @40363 has 36 MA's), (72, 40306), (77, 40264), (81, 40243), (86, 40198), (88, 40183), (90, 40174), (93, 40162), (94, 40141), (108, 40078), (110, 40072), (114, 40036), (115, 40033), (119, 40018), (126, 39994),

Gene: Vincenzo_42 Start: 40436, Stop: 39954, Start Num: 44
Candidate Starts for Vincenzo_42:
(23, 40535), (25, 40526), (Start: 44 @40436 has 1 MA's), (Start: 56 @40379 has 1 MA's), (73, 40292), (74, 40286), (77, 40265), (79, 40256), (94, 40145), (105, 40097), (114, 40052), (119, 40034), (125, 40004), (129, 39989),

Gene: VioletZ_42 Start: 39692, Stop: 39267, Start Num: 55
Candidate Starts for VioletZ_42:
(Start: 15 @39896 has 1 MA's), (18, 39872), (20, 39860), (32, 39806), (Start: 48 @39725 has 3 MA's), (Start: 55 @39692 has 23 MA's), (Start: 57 @39686 has 36 MA's), (77, 39584), (87, 39509), (90, 39497), (94, 39464), (96, 39455), (110, 39407), (114, 39371), (119, 39353),

Gene: Virapocalypse_46 Start: 39714, Stop: 39184, Start Num: 26
Candidate Starts for Virapocalypse_46:
(Start: 26 @39714 has 243 MA's), (Start: 52 @39609 has 53 MA's), (72, 39531), (73, 39516), (81, 39471),

Gene: Virgeve_45 Start: 39491, Stop: 38964, Start Num: 26
Candidate Starts for Virgeve_45:
(Start: 26 @39491 has 243 MA's), (Start: 52 @39389 has 53 MA's), (72, 39311), (73, 39296), (81, 39251),

Gene: Vista_46 Start: 39724, Stop: 39197, Start Num: 26
Candidate Starts for Vista_46:
(Start: 26 @39724 has 243 MA's), (Start: 52 @39622 has 53 MA's), (72, 39544), (73, 39529), (81, 39484),

Gene: Vivaldi_46 Start: 39750, Stop: 39226, Start Num: 26
Candidate Starts for Vivaldi_46:
(Start: 26 @39750 has 243 MA's), (Start: 52 @39651 has 53 MA's), (72, 39573), (73, 39558), (81, 39513),

Gene: Vortex_46 Start: 39427, Stop: 38903, Start Num: 26
Candidate Starts for Vortex_46:
(Start: 26 @39427 has 243 MA's), (Start: 52 @39328 has 53 MA's), (72, 39250), (73, 39235), (81, 39190),

Gene: Waleliano_41 Start: 39619, Stop: 39194, Start Num: 55
Candidate Starts for Waleliano_41:
(Start: 15 @39823 has 1 MA's), (18, 39799), (20, 39787), (32, 39733), (Start: 48 @39652 has 3 MA's), (Start: 55 @39619 has 23 MA's), (77, 39511), (87, 39436), (90, 39424), (94, 39391), (96, 39382), (110, 39334), (114, 39298), (119, 39280),

Gene: Wallhey_45 Start: 39284, Stop: 38760, Start Num: 26
Candidate Starts for Wallhey_45:
(Start: 26 @39284 has 243 MA's), (Start: 52 @39185 has 53 MA's), (72, 39107), (73, 39092), (81, 39047),

Gene: Waterdiva_46 Start: 39716, Stop: 39189, Start Num: 26

Candidate Starts for Waterdiva_46:
(Start: 26 @39716 has 243 MA's), (Start: 52 @39614 has 53 MA's), (72, 39536), (73, 39521), (81, 39476),

Gene: Weher20_46 Start: 39715, Stop: 39188, Start Num: 26
Candidate Starts for Weher20_46:
(Start: 26 @39715 has 243 MA's), (Start: 52 @39613 has 53 MA's), (72, 39535), (73, 39520), (81, 39475),

Gene: West99_45 Start: 39977, Stop: 39588, Start Num: 57
Candidate Starts for West99_45:
(Start: 57 @39977 has 36 MA's), (72, 39920), (77, 39878), (81, 39857), (86, 39812), (88, 39797), (90, 39788), (93, 39776), (94, 39755), (108, 39692), (110, 39686), (114, 39650), (115, 39647), (126, 39608),

Gene: Windsor_45 Start: 39420, Stop: 38893, Start Num: 26
Candidate Starts for Windsor_45:
(Start: 26 @39420 has 243 MA's), (Start: 52 @39318 has 53 MA's), (72, 39240), (73, 39225), (81, 39180),

Gene: Wooper_41 Start: 35248, Stop: 34859, Start Num: 69
Candidate Starts for Wooper_41:
(17, 35497), (Start: 69 @35248 has 6 MA's), (74, 35188), (76, 35173), (87, 35080), (90, 35068), (94, 35035), (107, 34987), (111, 34978), (119, 34930),

Gene: Xavier_45 Start: 39434, Stop: 38910, Start Num: 26
Candidate Starts for Xavier_45:
(Start: 26 @39434 has 243 MA's), (Start: 52 @39335 has 53 MA's), (72, 39257), (73, 39242), (81, 39197),

Gene: Xincheng_40 Start: 39075, Stop: 38650, Start Num: 55
Candidate Starts for Xincheng_40:
(23, 39237), (Start: 37 @39153 has 4 MA's), (Start: 48 @39108 has 3 MA's), (Start: 55 @39075 has 23 MA's), (77, 38967), (87, 38892), (90, 38880), (94, 38847), (96, 38838), (110, 38790), (114, 38754), (119, 38736),

Gene: Yago84_39 Start: 34117, Stop: 33698, Start Num: 58
Candidate Starts for Yago84_39:
(Start: 58 @34117 has 10 MA's), (77, 34000), (81, 33982), (116, 33781), (123, 33745), (125, 33739),

Gene: Yahalom_44 Start: 39523, Stop: 39038, Start Num: 46
Candidate Starts for Yahalom_44:
(Start: 16 @39694 has 1 MA's), (35, 39592), (42, 39538), (Start: 46 @39523 has 41 MA's), (Start: 53 @39475 has 11 MA's), (71, 39385), (77, 39340), (78, 39334), (80, 39328), (86, 39277), (100, 39190), (104, 39166), (114, 39118),

Gene: Yeshua_41 Start: 35225, Stop: 34836, Start Num: 69
Candidate Starts for Yeshua_41:
(17, 35474), (Start: 69 @35225 has 6 MA's), (74, 35165), (76, 35150), (87, 35057), (90, 35045), (94, 35012), (107, 34964), (111, 34955), (119, 34907),

Gene: Yinz_44 Start: 39549, Stop: 39064, Start Num: 46
Candidate Starts for Yinz_44:

(Start: 16 @39720 has 1 MA's), (35, 39618), (42, 39564), (Start: 46 @39549 has 41 MA's), (Start: 53 @39501 has 11 MA's), (71, 39411), (77, 39366), (78, 39360), (80, 39354), (86, 39303), (100, 39216), (104, 39192), (114, 39144),

Gene: Yoshand_46 Start: 39621, Stop: 39196, Start Num: 52
Candidate Starts for Yoshand_46:
(22, 39771), (24, 39762), (27, 39747), (Start: 52 @39621 has 53 MA's), (72, 39543), (73, 39528), (81, 39483),

Gene: YouGoGlencoco_46 Start: 39718, Stop: 39191, Start Num: 26
Candidate Starts for YouGoGlencoco_46:
(Start: 26 @39718 has 243 MA's), (Start: 52 @39616 has 53 MA's), (72, 39538), (73, 39523), (81, 39478),

Gene: Zaider_47 Start: 39948, Stop: 39421, Start Num: 26
Candidate Starts for Zaider_47:
(Start: 26 @39948 has 243 MA's), (Start: 52 @39846 has 53 MA's), (72, 39768), (73, 39753), (81, 39708),

Gene: Zelda_46 Start: 39765, Stop: 39238, Start Num: 26
Candidate Starts for Zelda_46:
(Start: 26 @39765 has 243 MA's), (Start: 52 @39663 has 53 MA's), (72, 39585), (73, 39570), (81, 39525),

Gene: Zemanar_42 Start: 39622, Stop: 39197, Start Num: 55
Candidate Starts for Zemanar_42:
(Start: 15 @39826 has 1 MA's), (18, 39802), (20, 39790), (32, 39736), (Start: 48 @39655 has 3 MA's), (Start: 55 @39622 has 23 MA's), (Start: 57 @39616 has 36 MA's), (77, 39514), (87, 39439), (90, 39427), (94, 39394), (96, 39385), (110, 39337), (114, 39301), (119, 39283),

Gene: Zenteno07_49 Start: 39074, Stop: 38550, Start Num: 37
Candidate Starts for Zenteno07_49:
(2, 39968), (3, 39947), (4, 39944), (5, 39929), (6, 39914), (7, 39908), (11, 39299), (23, 39158), (Start: 37 @39074 has 4 MA's), (47, 39038), (Start: 51 @39011 has 2 MA's), (Start: 61 @38975 has 5 MA's), (77, 38870), (80, 38858), (89, 38786), (96, 38741), (109, 38684),

Gene: Zonia_46 Start: 39635, Stop: 39210, Start Num: 52
Candidate Starts for Zonia_46:
(Start: 52 @39635 has 53 MA's), (72, 39557), (73, 39542), (81, 39497),