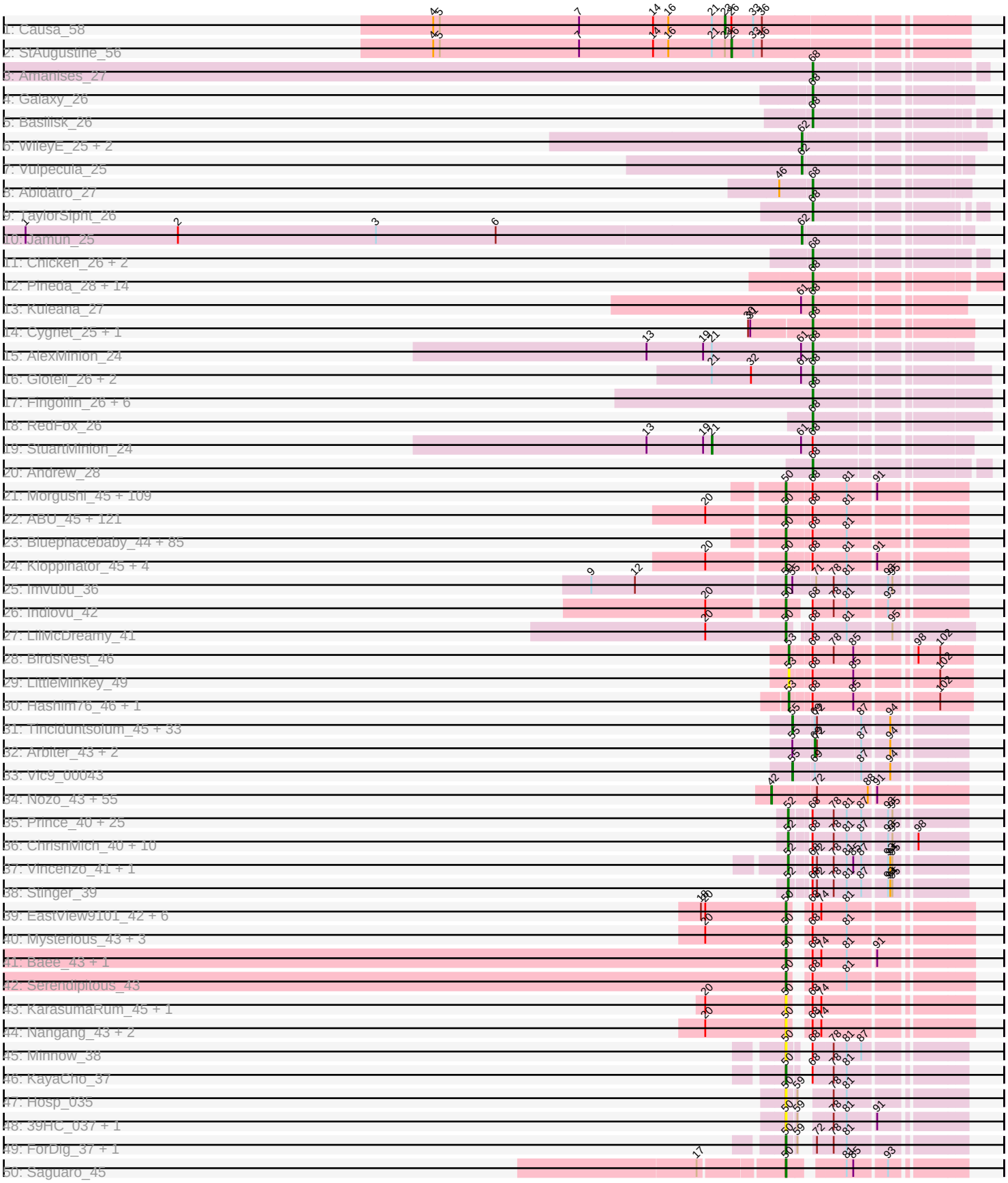
Pham 347047


1: Causa_58
2: StAugustine_56
3: Amanises_27
4: Galaxy_26
5: Basilisk_26
6: WileyE_25 + 2
7: Vulpecula_25
8: Abidatro_27
9: TaylorSpht_26
10: Jamun_25
11: Chicken_26 + 2
12: Pineda_28 + 14
13: Kuleana_27
14: Cygnet_25 + 1
15: AlexMinion_24
16: Glotell_26 + 2
17: Fingolfin_26 + 6
18: RedFox_26
19: StuartMinion_24
20: Andrew_28
21: Morgushi_45 + 109
22: ABU_45 + 121
23: Bluephacebaby_44 + 85
24: Kloppinator_45 + 4
25: Imvubu_36
26: Indiovu_42
27: LilMcDreamy_41
28: BirdsNest_46
29: LittleMinkey_49
30: Hashim76_46 + 1
31: Tincidunt solum_45 + 33
32: Arbiter_43 + 2
33: Vic9_00043
34: Nozo_43 + 55
35: Prince_40 + 25
36: ChrishMich_40 + 10
37: Vincenzo_41 + 1
38: Stinger_39
39: EastView9101_42 + 6
40: Mysterious_43 + 3
41: Baee_43 + 1
42: Serendipitous_43
43: KarasumaRum_45 + 1
44: Nangang_43 + 2
45: Minnow_38
46: KayaCho_37
47: Hosp_035
48: 39HC_037 + 1
49: ForDig_37 + 1
50: Saguaro_45

Pham 347047


51: Thonko_43
52: CRB2_46
53: Rinkes_44
54: Funsized_46
55: Knocker_45
56: Quesadilla_46
57: PenguinLover67_46
58: Catfish_31
59: BeeGee_38 + 1
60: LonelyBoi_35
61: Nymphadora_34 + 5
62: Tayonia_35 + 11
63: Hugley_32
64: Clap_30 + 13
65: Vasanti_31
66: JCole_32
67: RayTheFireFly_38
68: Phistory_39 + 3
69: Horus_39 + 15
70: Spooky_39 + 1
71: Crater_36
72: TraderJ_40 + 2
73: BigglyBass_38
74: Axumite_38 + 3
75: MossRose_40 + 6
76: Mariokart_38 + 1
77: Coldpizza_41
78: Sour_43
79: AksarBAT_38 + 1
80: Evaa_38
81: Yago84_38 + 2
82: LittleMunchkin_40
83: BobRoss2024_37
84: CharlottesWeb_38
85: Coco2012_38
86: Avani_28 + 1
87: Demsculpinboyz_28 + 7
88: ThetaBob_24 + 1
89: Stuck_36
90: Sbash_32
91: Rubeelu_32 + 1
92: Purky_30
93: Purky_36
94: Rem711_6
95: 32HC_7
96: Whack_33
97: Sleepyhead_33
98: Lukepolites_69
99: Pine5_39
100: Shambre1_30

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 347047 Report

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

Pham number 347047 has 662 members, 72 are drafts.

Phages represented in each track:
• Track 1 : Causa_58
• Track 2 : StAugustine_56
• Track 3 : Amanises_27
• Track 4 : Galaxy_26
• Track 5 : Basilisk_26
• Track 6 : WileyE_25, Chickaboom_25, Brynnie_25
• Track 7 : Vulpecula_25
• Track 8 : Abidatro_27
• Track 9 : TaylorSipht_26
• Track 10 : Jamun_25
• Track 11 : Chicken_26, Niblet_26, Zixiang_26
• Track 12 : Pineda_28, Polka_26, Coral_26, Colusalem_27, Lunar_27, Orcanus_26, Toad24_27, Cote_27, GramZayde_26, Daob_27, Amelia_27, OtsoOtso_26, Melons_27, Damocles_28, HannahPhantana_27
• Track 13 : Kuleana_27
• Track 14 : Cygnet_25, Antrice_26
• Track 15 : AlexMinion_24
• Track 16 : Glotell_26, Leona_25, Azaz_25
• Track 17 : Fingolfin_26, Amphitrite_26, DanHam62_26, KHumphrey_26, Atlantica_26, Camara_26, PhluffyCoco_26
• Track 18 : RedFox_26
• Track 19 : StuartMinion_24
• Track 20 : Andrew_28
• Track 21 : Morgushi_45, MiniBoss_45, Soile_45, Beaglebox_44, Haleema_44, Solosis_44, Jesabah_45, Lulumae_44, Telesworld_44, Emiris_45, Brilliant_45, Cobra_45, Swish_45, Kwadwo_44, Wallhey_44, Vectra_44, Vaishali24_44, Orfeu_44, Khan1_44, Ricotta_44, JacAttac_45, Mikota_45, Iridessa_45, KingTut_36, Vaticameos_41, Piglet_0044, Vortex_45, PallasAthena_44, Fozzie_44, Apizium_44, CamL_45, SallyH_45, MRabcd_44, Puhltonio_45, Andre_45, Nova1_45, Lehmann_45, GeneCoco_45, HSavage_45, Maskar_44, Dice_44, Derpp_44, Carthage_43, TallGrassMM_45, Labeouficaum_44, Salazzle_45, Pherdinand_45, Cannibal_45, Dione_44, Pinkman_44, Riverton_45, Samaymay_45, LuckyMarjie_44, DuchessDung_43, Jbug01_45, Legolas_44, Pacifista_44, Cher_44, Nathan_45, Gwennie1_45, Aleia_45, MrPhizzler_45, RedMaple_44, Murdoc_45, Serpentine_0045, Grand2040_44, KLucky39_45, Simielle_44, Zonia_45, Maru_44, Rimu_45, Triad_45, Mcshane_44, Yoshand_45, BlackStallion_45, Gareth_44, Kwksand96_44, Banjo_44, Cornbread_44, Frankicide_45, Freya_44, KlimbOn_45,

Phunky_45, Roy17_45, Ashraf_44, ImtiyazSitla_44, Serendipity_45, Mana_44, Sheila_45, QueenBeane_45, Gyarad_0045, RedRaider89_46, Taraxa_45, Timmi_44, ElvisPhasley_45, PinheadLarry_45, Xavier_44, MelsMeow_44, Longacauda_44, Toni_44, TyrionL_44, Childish_44, OSmaximus_45, Newman_45, Hocus_44, Sigman_45, FluffyNinja_45, Phareon_45, Daffy_45, Inverness_45
• Track 22 : ABU_45, TooFast2Furius_46, Spartan300_45, PhrodoBaggins_44, Badfish_45, LasagnaCat_45, DoesntMatter_44, Horchata_45, Scrick_45, LostAndPhound_44, Chute_45, Katniss_45, Orion_45, Keitherie_45, Scoot17C_45, Charles1_45, Megatron_45, Omniscient_45, PhatCats2014_45, Lulwa_45, Held_45, HenryJackson_44, GreenChile_45, Harvey_45, Robyn_44, Nehme_44, Nyala_44, DaddyDaniels_45, PG1_45, BlacksBerry_44, Olak_44, AltPhacts_45, Morty_45, DonSanchon_44, Gophee_45, Potter_44, HighStump_44, Chuni_45, FleetyMac_45, ShadowBud_45, EmGer13_44, Aonishiki_45, OneBrain_46, CampRoach_45, Kimbrough_45, LeiMonet_45, Fang_45, ShiVal_45, Lumine_44, TomBombadil_45, Craff_45, Jiraiya_44, CharlieGBrown_44, True_44, Anderson_45, Struggle_44, Hekos_42, Fringe_45, Flake_45, EmpTee_45, SirBeauregard_45, Adriana_45, Mesmerelda_44, Chaelin_45, Mecca_44, Valjean_45, Megamind20_45, Roscoe_46, Plata_44, Vivaldi_45, DolOn_46, Nacho_0045, Chorkpop_45, SassyCat97_44, Numberten_45, DelRivs_44, Giraffe_45, MitKao_45, Boehler_45, Aelin_44, Inchworm_45, NiaNia_47, Bishoperium_44, Chah_46, Olive_45, SDcharge11_45, Oline_44, Tomlarah_45, Karn_44, Manad_44, Jiminy_44, Quisquiliae_45, Mosaic_44, Podrick_45, Selr12_45, Larson_46, ThreeOh3D2_45, Windsor_44, Skippy_45, Squiggle_45, Coletti_45, Schadenfreude_44, Lopsy_44, CheetO_45, Duggie_44, Mutante_44, Crownjwl_45, BoogieWoogie_45, IsaacEli_45, Trypo_45, ProfessorX_45, Cornobble_44, LeeLot_45, LemonSlice_45, Squid_45, Kikipoo_45, Doddsville_45, Thunderbird_44, Lego3393_44, Virgeve_44, Durga_45, Antonia_44
• Track 23 : Bluephacebaby_44, Hamish_45, PhenghisKhan_44, JangoPhett_45, Eremos_45, AbsoluteMadLad_44, PhrankReynolds_43, Colbert_45, UAch1_45, Altwerkus_44, HogWash_45, Phipps_45, Jillium_44, Slatt_45, FugateOSU_44, Roliet_45, Phamished_45, Mag7_44, Lasso_45, KingVeVeVe_45, Tooj_45, Hartsy_45, Waterdiva_45, FremontTroll_44, BlueHusk_45, Happabalu_45, Mesh1_45, Kahve_44, PhatLouie_45, Daka_46, Oosterbaan_45, YouGoGlencoco_45, Septica_44, Soto_45, Matalotodo_45, Placalicious_44, Zaider_46, Cosmolli16_44, BatteryCK_44, Caspiboi_44, FriarPreacher_44, JDog_44, Haimas_45, DirtJuice_45, Zelda_45, Buckeye_45, Orwigg_44, Hetaeria_45, Phleuron_44, Basato_46, Swiphy_45, Usavi_45, Pipsqueak_45, Melc17_45, Burr_44, Veritas_44, Mulan_44, MichaelPhcott_44, Prickles_45, Iridoclysis_45, Riggan_45, Magic8_45, Weher20_45, Vista_45, Azuria_44, Gwilliam_45, SilverBell_45, OliverWalter_45, Kiwot_45, Nicole21_45, JakeO_44, Suffolk_45, Kailash_45, Phergie_44, Schueller_44, Thora_45, Dingo_45, AngelCake_45, Dati_45, Chunky_45, Etaye_45, Sophia_44, Surely_45, Virapocalypse_45, Chipette_46, Hertubise_45
• Track 24 : Kloppinator_45, Plmatters_45, UncleHowie_45, Eugenia_45, Pops_45
• Track 25 : Imvubu_36
• Track 26 : Indlovu_42
• Track 27 : LilMcDreamy_41
• Track 28 : BirdsNest_46
• Track 29 : LittleMinkey_49
• Track 30 : Hashim76_46, Zenteno07_48
• Track 31 : Tinciduntsolum_45, Hedgerow_44, Brownie5_44, Rhinoforte_44, LilSmirk_44, Boyle_44, Eaglehorse_44, Ares_44, Lars_44, FrenchFry_44, Bananafish_44, Blocker23_44, Tres_44, Holeinone_44, Sabella_43, PrinceCharming_44, TA17A_45, Allegro_44, Glass_44, Kheth_44, Kaleb_44,

Phantasmagoria_44, LizLemon_44, Lephleur_44, MasterPo_44, Calamitous_44, Faze9_43, ItsyBitsy1_44, West99_44, Coffee_44, Kolhan_44, Godines_44, Laurie_43, Opia_44
• Track 32 : Arbiter_43, Qyrzula_41, Rosebush_43
• Track 33 : Vic9_00043
• Track 34 : Nozo_43, Yahalom_43, Daisy_43, Rita1961_43, Obutu_43, Gervas_43, Philly_42, Marlia_43, Corofin_43, Heathcliff_43, Neos5_43, Olivio_42, Morty007_43, Chalmers_43, Chandler_43, Mortcellus_42, Abinghost_43, Gadjet_44, Devonte_43, Deenasa_43, Casbah_42, OrangeOswald_43, Shenandoah_43, Compostia_44, LestyG_43, TinyTerror_43, SynergyX_43, Baloo_43, MmasiCarm_43, SwainyDoc_43, Kamiyu_43, Bernardo_44, Athena_44, Jackstina_40, Marley1013_43, Mulaychimus_43, Phlyer_43, Yinz_43, ChaChing_43, Ben11_42, Halfpint_42, Briakila_44, Pipefish_45, Phayeta_44, Phaedrus_41, Glubnar_44, HarveySr_43, RomaT_43, Chentzyk_43, Akoma_43, GlenHope_44, Tydolla_43, RagingRooster_43, SlippinJimmy_43, Kronus_42, Audrey_43
• Track 35 : Prince_40, Zemanar_41, JaguarMi_40, Fortunato_41, Apex_41, Fanaw_39, Nigel_39, Heath_39, Hydro_40, JAMaL_40, VioletZ_41, BobbyK_41, QueenPie_39, JoyceMaria_40, Austelle_41, Waleliano_40, Mudslide_40, Lolalove_40, BrownCNA_42, Mithril_40, RawrgerThat_41, Xincheng_39, Hangman_40, Frederick_41, Magpie_39, Cooper_41
• Track 36 : ChrisnMich_40, LittleDigger_39, Antihero_39, Renkei_39, Ahwei_39, Nanao_39, Hally898_39, GinPorsche_40, Lambano_39, Epah_39, Poster_39
• Track 37 : Vincenzo_41, AlanGrant_42
• Track 38 : Stinger_39
• Track 39 : EastView9101_42, Rita130_44, Reccee_44, Acadian_44, Donny_44, SirJeffery_44, Suigeneris_44
• Track 40 : Mysterious_43, Reprobate_44, Nehemiah_43, Phelemich_43
• Track 41 : Baee_43, Rich_42
• Track 42 : Serendipitous_43
• Track 43 : KarasumaRum_45, StinkyVeggy_45
• Track 44 : Nangang_43, Shenyu_43, DigitDog_43
• Track 45 : Minnow_38
• Track 46 : KayaCho_37
• Track 47 : Hosp_035
• Track 48 : 39HC_037, 40BC_037
• Track 49 : ForDig_37, Jolie1_037
• Track 50 : Saguaro_45
• Track 51 : Thonko_43
• Track 52 : CRB2_46
• Track 53 : Rinkes_44
• Track 54 : Funsized_46
• Track 55 : Knocker_45
• Track 56 : Quesadilla_46
• Track 57 : PenguinLover67_46
• Track 58 : Catfish_31
• Track 59 : BeeGee_38, RavenCo17_36
• Track 60 : LonelyBoi_35
• Track 61 : Nymphadora_34, Bosnia_34, Herod_34, BatStarr_34, Eviarto_34, TimTam_34
• Track 62 : Tayonia_35, Eudoria_35, Dillpickles_37, Maridalia_34, Neobush_35, Manasvini_35, Suscepit_35, Zameen_35, Polly_32, Kita_36, Antonio_35, Trumpet_35
• Track 63 : Hugley_32

• Track 64 : Clap_30, Jalleen_30, Haley23_30, Savage_30, Sahara_29, Mocha12_30, GemG_30, Sproutie_30, Ebert_31, Cynthia_30, TuertoX_30, Whiteclaw_30, Yinzer_30, Gizermo_30
• Track 65 : Vasanti_31
• Track 66 : JCole_32
• Track 67 : RayTheFireFly_38
• Track 68 : Phistory_39, Apricot_38, BENtherdunthat_38, Frickyeah_39
• Track 69 : Horus_39, BearBQ_38, ShawBrad_38, Lutum_39, Asapag_39, Ecliptus_40, Leroy_39, Phabuloso_36, Whitney_42, ODay_42, Periwinkle_42, Budski_39, Getalong_40, Kenna_38, Holliday_38, CheeseTouch_37
• Track 70 : Spooky_39, Squiddly_40
• Track 71 : Crater_36
• Track 72 : TraderJ_40, Yeshua_40, Wooper_40
• Track 73 : BiggityBass_38
• Track 74 : Axumite_38, Shatter_38, Ligma_38, Fresco_38
• Track 75 : MossRose_40, MakoManhole_40, CaiB_40, AnarQue_40, FelixTres_39, Blackpen_40, CloverMinnie_40
• Track 76 : Mariokart_38, JellyBelly_38
• Track 77 : Coldpizza_41
• Track 78 : Sour_43
• Track 79 : AksarBAT_38, NHagos_38
• Track 80 : Evaa_38
• Track 81 : Yago84_38, Sisko_38, AnClar_39
• Track 82 : LittleMunchkin_40
• Track 83 : BobRoss2024_37
• Track 84 : CharlottesWeb_38
• Track 85 : Coco2012_38
• Track 86 : Avani_28, ShroomBoi_22
• Track 87 : Demsculpinboyz_28, Bipolar_22, Che9d_28, Kenuha5_22, Ogopogo_25, Kersh_23, Pollywog_25, Yoshi_28
• Track 88 : ThetaBob_24, Madiba_23
• Track 89 : Stuck_36
• Track 90 : Sbash_32
• Track 91 : Rubeelu_32, Butters_32
• Track 92 : Purky_30
• Track 93 : Purky_36
• Track 94 : Rem711_6
• Track 95 : 32HC_7
• Track 96 : Whack_33
• Track 97 : Sleepyhead_33
• Track 98 : Lukepolites_69
• Track 99 : Pine5_39
• Track 100 : Shambre1_30

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

The start number called the most often in the published annotations is 50, it was called in 319 of the 590 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• 39HC_037, 40BC_037, ABU_45, AbsoluteMadLad_44, Acadian_44, Adriana_45, Aelin_44, Aleia_45, AltPhacts_45, Altwerkus_44, Anderson_45, Andre_45, AngelCake_45, Antonia_44, Aonishiki_45, Apizium_44, Ashraf_44, Azuria_44, Badfish_45, Baee_43, Banjo_44, Basato_46, BatteryCK_44, Beaglebox_44, Bishoperium_44, BlackStallion_45, BlacksBerry_44, BlueHusk_45, Bluephacebaby_44, Boehler_45, BoogieWoogie_45, Brilliant_45, Buckeye_45, Burr_44, CRB2_46, CamL_45, CampRoach_45, Cannibal_45, Carthage_43, Caspiboi_44, Chaelin_45, Chah_46, Charles1_45, CharlieGBrown_44, CheetO_45, Cher_44, Childish_44, Chipette_46, Chorkpop_45, Chuni_45, Chunky_45, Chute_45, Cobra_45, Colbert_45, Coletti_45, Cornbread_44, Cornobble_44, Cosmolli16_44, Craff_45, Crownjwl_45, DaddyDaniels_45, Daffy_45, Daka_46, Dati_45, DelRivs_44, Derpp_44, Dice_44, DigitDog_43, Dingo_45, Dione_44, DirtJuice_45, Doddsville_45, DoesntMatter_44, DolOn_46, DonSanchon_44, Donny_44, DuchessDung_43, Duggie_44, Durga_45, EastView9101_42, ElvisPhasley_45, EmGer13_44, Emiris_45, EmpTee_45, Eremos_45, Etaye_45, Eugenia_45, Fang_45, Flake_45, FleetyMac_45, FluffyNinja_45, ForDig_37, Fozzie_44, Frankicide_45, FremontTroll_44, Freya_44, FriarPreacher_44, Fringe_45, FugateOSU_44, Funsized_46, Gareth_44, GeneCoco_45, Giraffe_45, Gophee_45, Grand2040_44, GreenChile_45, Gwennie1_45, Gwilliam_45, Gyarad_0045, HSavage_45, Haimas_45, Haleema_44, Hamish_45, Happabalu_45, Hartsy_45, Harvey_45, Hekos_42, Held_45, HenryJackson_44, Hertubise_45, Hetaeria_45, HighStump_44, Hocus_44, HogWash_45, Horchata_45, Hosp_035, ImtiyazSitla_44, Imvubu_36, Inchworm_45, Indlovu_42, Inverness_45, Iridessa_45, Iridoclysis_45, IsaacEli_45, JDog_44, JacAttac_45, JakeO_44, JangoPhett_45, Jbug01_45, Jesabah_45, Jillium_44, Jiminy_44, Jiraiya_44, Jolie1_037, KLucky39_45, Kahve_44, Kailash_45, KarasumaRum_45, Karn_44, Katniss_45, KayaCho_37, Keitherie_45, Khan1_44, Kikipoo_45, Kimbrough_45, KingTut_36, KingVeVeVe_45, Kiwot_45, KlimbOn_45, Kloppinator_45, Knocker_45, Kwadwo_44, Kwksand96_44, Labeouficaum_44, Larson_46, LasagnaCat_45, Lasso_45, LeeLot_45, Lego3393_44, Legolas_44, Lehmann_45, LeiMonet_45, LemonSlice_45, LilMcDreamy_41, Longacauda_44, Lopsy_44, LostAndPhound_44, LuckyMarjie_44, Lulumae_44, Lulwa_45, Lumine_44, MRabcd_44, Mag7_44, Magic8_45, Mana_44, Manad_44, Maru_44, Maskar_44, Matalotodo_45, Mcshane_44, Mecca_44, Megamind20_45, Megatron_45, Melc17_45, MelsMeow_44, Mesh1_45, Mesmerelda_44, MichaelPhcott_44, Mikota_45, MiniBoss_45, Minnow_38, MitKao_45, Morgushi_45, Morty_45, Mosaic_44, MrPhizzler_45, Mulan_44, Murdoc_45, Mutante_44, Mysterious_43, Nacho_0045, Nangang_43, Nathan_45, Nehemiah_43, Nehme_44, Newman_45, NiaNia_47, Nicole21_45, Nova1_45, Numberten_45, Nyala_44, OSmaximus_45, Olak_44, Oline_44, Olive_45, OliverWalter_45, Omniscient_45, OneBrain_46, Oosterbaan_45, Orfeu_44, Orion_45, Orwigg_44, PG1_45, Pacifista_44, PallasAthena_44, PenguinLover67_46, Phamished_45, Phareon_45, PhatCats2014_45, PhatLouie_45, Phelemich_43, PhenghisKhan_44, Pherdinand_45, Phergie_44, Phipps_45, Phleuron_44, PhrankReynolds_43, PhrodoBaggins_44, Phunky_45, Piglet_0044, PinheadLarry_45, Pinkman_44, Pipsqueak_45, Placalicious_44, Plata_44, Plmatters_45, Podrick_45, Pops_45, Potter_44, Prickles_45, ProfessorX_45, Puhltonio_45, QueenBeane_45, Quesadilla_46, Quisquiliae_45, Reccee_44, RedMaple_44, RedRaider89_46, Reprobate_44, Rich_42, Ricotta_44, Riggan_45, Rimu_45, Rita130_44, Riverton_45, Robyn_44, Roliet_45, Roscoe_46, Roy17_45, SDcharge11_45, Saguaro_45, Salazzle_45, SallyH_45, Samaymay_45, SassyCat97_44, Schadenfreude_44, Schueller_44, Scoot17C_45, Scrick_45, Selr12_45, Septica_44, Serendipitous_43, Serendipity_45, Serpentine_0045, ShadowBud_45, Sheila_45, Shenyu_43, ShiVal_45, Sigman_45, SilverBell_45, Simielle_44, SirBeauregard_45, SirJeffery_44, Skippy_45, Slatt_45,

Soile_45, Solosis_44, Sophia_44, Soto_45, Spartan300_45, Squid_45, Squiggle_45, StinkyVeggy_45, Struggle_44, Suffolk_45, Suigeneris_44, Surely_45, Swiphy_45, Swish_45, TallGrassMM_45, Taraxa_45, Telesworld_44, Thora_45, ThreeOh3D2_45, Thunderbird_44, Timmi_44, TomBombadil_45, Tomlarah_45, Toni_44, TooFast2Furius_46, Tooj_45, Triad_45, True_44, Trypo_45, TyrionL_44, UAch1_45, UncleHowie_45, Usavi_45, Vaishali24_44, Valjean_45, Vaticameos_41, Vectra_44, Veritas_44, Virapocalypse_45, Virgeve_44, Vista_45, Vivaldi_45, Vortex_45, Wallhey_44, Waterdiva_45, Weher20_45, Windsor_44, Xavier_44, Yoshand_45, YouGoGlencoco_45, Zaider_46, Zelda_45, Zonia_45,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• 32HC_7, Abidatro_27, Abinghost_43, Ahwei_39, Akoma_43, AksarBAT_38, AlanGrant_42, AlexMinion_24, Allegro_44, Amanises_27, Amelia_27, Amphitrite_26, AnClar_39, AnarQue_40, Andrew_28, Antihero_39, Antonio_35, Antrice_26, Apex_41, Apricot_38, Arbiter_43, Ares_44, Asapag_39, Athena_44, Atlantica_26, Audrey_43, Austelle_41, Avani_28, Axumite_38, Azaz_25, BENtherdunthat_38, Baloo_43, Bananafish_44, Basilisk_26, BatStarr_34, BearBQ_38, BeeGee_38, Ben11_42, Bernardo_44, BiggityBass_38, Bipolar_22, BirdsNest_46, Blackpen_40, Blocker23_44, BobRoss2024_37, BobbyK_41, Bosnia_34, Boyle_44, Briakila_44, BrownCNA_42, Brownie5_44, Brynnie_25, Budski_39, Butters_32, CaiB_40, Calamitous_44, Camara_26, Casbah_42, Catfish_31, Causa_58, ChaChing_43, Chalmers_43, Chandler_43, CharlottesWeb_38, Che9d_28, CheeseTouch_37, Chentzyk_43, Chickaboom_25, Chicken_26, ChrisnMich_40, Clap_30, CloverMinnie_40, Coco2012_38, Coffee_44, Coldpizza_41, Colusalem_27, Compostia_44, Cooper_41, Coral_26, Corofin_43, Cote_27, Crater_36, Cygnet_25, Cynthia_30, Daisy_43, Damocles_28, DanHam62_26, Daob_27, Deenasa_43, Demsculpinboyz_28, Devonte_43, Dillpickles_37, Eaglehorse_44, Ebert_31, Ecliptus_40, Epah_39, Eudoria_35, Evaa_38, Eviarto_34, Fanaw_39, Faze9_43, FelixTres_39, Fingolfin_26, Fortunato_41, Frederick_41, FrenchFry_44, Fresco_38, Frickyeah_39, Gadjet_44, Galaxy_26, GemG_30, Gervas_43, Getalong_40, GinPorsche_40, Gizermo_30, Glass_44, GlenHope_44, Glotell_26, Glubnar_44, Godines_44, GramZayde_26, Haley23_30, Halfpint_42, Hally898_39, Hangman_40, HannahPhantana_27, HarveySr_43, Hashim76_46, Heath_39, Heathcliff_43, Hedgerow_44, Herod_34, Holeinone_44, Holliday_38, Horus_39, Hugley_32, Hydro_40, ItsyBitsy1_44, JAMaL_40, JCole_32, Jackstina_40, JaguarMi_40, Jalleen_30, Jamun_25, JellyBelly_38, JoyceMaria_40, KHumphrey_26, Kaleb_44, Kamiyu_43, Kenna_38, Kenuha5_22, Kersh_23, Kheth_44, Kita_36, Kolhan_44, Kronus_42, Kuleana_27, Lambano_39, Lars_44, Laurie_43, Leona_25, Lephleur_44, Leroy_39, LestyG_43, Ligma_38, LilSmirk_44, LittleDigger_39, LittleMinkey_49, LittleMunchkin_40, LizLemon_44, Lolalove_40, LonelyBoi_35, Lukepolites_69, Lunar_27, Lutum_39, Madiba_23, Magpie_39, MakoManhole_40, Manasvini_35, Maridalia_34, Mariokart_38, Marley1013_43, Marlia_43, MasterPo_44, Melons_27, Mithril_40, MmasiCarm_43, Mocha12_30, Mortcellus_42, Morty007_43, MossRose_40, Mudslide_40, Mulaychimus_43, NHagos_38, Nanao_39, Neobush_35, Neos5_43, Niblet_26, Nigel_39, Nozo_43, Nymphadora_34, ODay_42, Obutu_43, Ogopogo_25, Olivio_42, Opia_44, OrangeOswald_43, Orcanus_26, OtsoOtso_26, Periwinkle_42, Phabuloso_36, Phaedrus_41, Phantasmagoria_44, Phayeta_44, Philly_42, Phistory_39, PhluffyCoco_26, Phlyer_43, Pine5_39, Pineda_28, Pipefish_45, Polka_26, Polly_32, Pollywog_25, Poster_39, PrinceCharming_44, Prince_40, Purky_30, Purky_36, QueenPie_39, Qyrzula_41,

RagingRooster_43, RavenCo17_36, RawrgerThat_41, RayTheFireFly_38, RedFox_26, Rem711_6, Renkei_39, Rhinoforte_44, Rinkes_44, Rita1961_43, RomaT_43, Rosebush_43, Rubeelu_32, Sabella_43, Sahara_29, Savage_30, Sbash_32, Shambre1_30, Shatter_38, ShawBrad_38, Shenandoah_43, ShroomBoi_22, Sisko_38, Sleepyhead_33, SlippinJimmy_43, Sour_43, Spooky_39, Sproutie_30, Squiddly_40, StAugustine_56, Stinger_39, StuartMinion_24, Stuck_36, Suscepit_35, SwainyDoc_43, SynergyX_43, TA17A_45, TaylorSipht_26, Tayonia_35, ThetaBob_24, Thonko_43, TimTam_34, Tinciduntsolum_45, TinyTerror_43, Toad24_27, TraderJ_40, Tres_44, Trumpet_35, TuertoX_30, Tydolla_43, Vasanti_31, Vic9_00043, Vincenzo_41, VioletZ_41, Vulpecula_25, Waleliano_40, West99_44, Whack_33, Whiteclaw_30, Whitney_42, WileyE_25, Wooper_40, Xincheng_39, Yago84_38, Yahalom_43, Yeshua_40, Yinz_43, Yinzer_30, Yoshi_28, Zameen_35, Zemanar_41, Zenteno07_48, Zixiang_26,

Summary by start number:

Start 21:
• Found in 7 of 662 (1.1%) of genes in pham
• Manual Annotations of this start: 1 of 590
• Called 14.3% of time when present
• Phage (with cluster) where this start called: StuartMinion_24 (AS3),

Start 23:
• Found in 7 of 662 (1.1%) of genes in pham
• Manual Annotations of this start: 1 of 590
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Causa_58 (AI),

Start 26:
• Found in 2 of 662 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 590
• Called 50.0% of time when present
• Phage (with cluster) where this start called: StAugustine_56 (AI),

Start 32:
• Found in 7 of 662 (1.1%) of genes in pham
• Manual Annotations of this start: 1 of 590
• Called 14.3% of time when present
• Phage (with cluster) where this start called: CharlottesWeb_38 (DR),

Start 37:
• Found in 8 of 662 (1.2%) of genes in pham
• No Manual Annotations of this start.
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Coco2012_38 (DR),

Start 38:
• Found in 10 of 662 (1.5%) of genes in pham
• Manual Annotations of this start: 5 of 590
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Axumite_38 (DR), Fresco_38 (DR), JellyBelly_38 (DR), Ligma_38 (DR), Mariokart_38 (DR), Shatter_38 (DR),

Start 40:
• Found in 8 of 662 (1.2%) of genes in pham
• Manual Annotations of this start: 5 of 590
• Called 75.0% of time when present
• Phage (with cluster) where this start called: AnClar_39 (DR), BiggityBass_38 (DR), BobRoss2024_37 (DR), LittleMunchkin_40 (DR), Sisko_38 (DR), Yago84_38 (DR),

Start 42:
• Found in 70 of 662 (10.6%) of genes in pham
• Manual Annotations of this start: 63 of 590
• Called 98.6% of time when present
• Phage (with cluster) where this start called: Abinghost_43 (B3), Akoma_43 (B3), AksarBAT_38 (DR), AnarQue_40 (DR), Athena_44 (B3), Audrey_43 (B3), Baloo_43 (B3), Ben11_42 (B3), Bernardo_44 (B3), Blackpen_40 (DR), Briakila_44 (B3), CaiB_40 (DR), Casbah_42 (B3), ChaChing_43 (B3), Chalmers_43 (B3), Chandler_43 (B3), Chentzyk_43 (B3), CloverMinnie_40 (DR), Compostia_44 (B3), Corofin_43 (B3), Daisy_43 (B3), Deenasa_43 (B3), Devonte_43 (B3), FelixTres_39 (DR), Gadjet_44 (B3), Gervas_43 (B3), GlenHope_44 (B3), Glubnar_44 (B3), Halfpint_42 (B3), HarveySr_43 (B3), Heathcliff_43 (B3), Jackstina_40 (B3), Kamiyu_43 (B3), Kronus_42 (B3), LestyG_43 (B3), MakoManhole_40 (DR), Marley1013_43 (B3), Marlia_43 (B3), MmasiCarm_43 (B3), Mortcellus_42 (B3), Morty007_43 (B3), MossRose_40 (DR), Mulaychimus_43 (B3), NHagos_38 (DR), Neos5_43 (B3), Nozo_43 (B3), Obutu_43 (B3), Olivio_42 (B3), OrangeOswald_43 (B3), Phaedrus_41 (B3), Phayeta_44 (B3), Philly_42 (B3), Phlyer_43 (B3), Pipefish_45 (B3), RagingRooster_43 (B3), Rita1961_43 (B3), RomaT_43 (B3), Shenandoah_43 (B3), SlippinJimmy_43 (B3), Sour_43 (DR), SwainyDoc_43 (B3), SynergyX_43 (B3), TinyTerror_43 (B3), TraderJ_40 (DR), Tydolla_43 (B3), Wooper_40 (DR), Yahalom_43 (B3), Yeshua_40 (DR), Yinz_43 (B3),

Start 45:
• Found in 48 of 662 (7.3%) of genes in pham
• Manual Annotations of this start: 39 of 590
• Called 85.4% of time when present
• Phage (with cluster) where this start called: 32HC_7 (Z), Antonio_35 (CZ1), Asapag_39 (DN1), BatStarr_34 (CZ1), BearBQ_38 (DN), BeeGee_38 (CY5), Bosnia_34 (CZ1), Budski_39 (DN), CheeseTouch_37 (DN1), Dillpickles_37 (CZ1), Ecliptus_40 (DN), Eudoria_35 (CZ1), Eviarto_34 (CZ1), Getalong_40 (DN1), Herod_34 (CZ1), Holliday_38 (DN1), Horus_39 (DN1), JCole_32 (CZ2), Kenna_38 (DN1), Kita_36 (CZ1), Leroy_39 (DN1), Lutum_39 (DN1), Manasvini_35 (CZ1), Maridalia_34 (CZ1), Neobush_35 (CZ1), Nymphadora_34 (CZ1), ODay_42 (DN), Periwinkle_42 (DN1), Phabuloso_36 (DN1), Polly_32 (CZ1), RavenCo17_36 (CZ8), Rem711_6 (Z), ShawBrad_38 (DN1), Sleepyhead_33 (singleton), Suscepit_35 (CZ1), Tayonia_35 (CZ1), TimTam_34 (CZ1), Trumpet_35 (CZ1), Whack_33 (singleton), Whitney_42 (DN1), Zameen_35 (CZ1),

Start 47:
• Found in 9 of 662 (1.4%) of genes in pham
• Manual Annotations of this start: 5 of 590
• Called 55.6% of time when present
• Phage (with cluster) where this start called: Butters_32 (N), Purky_30 (P6), Rubeelu_32 (N), Sbash_32 (I2), Stuck_36 (I2),

Start 48:

• Found in 1 of 662 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 590
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Thonko_43 (B8),

Start 49:
• Found in 13 of 662 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 590
• Called 7.7% of time when present
• Phage (with cluster) where this start called: Purky_36 (P6),

Start 50:
• Found in 358 of 662 (54.1%) of genes in pham
• Manual Annotations of this start: 319 of 590
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 39HC_037 (B6), 40BC_037 (B6), ABU_45 (B1), AbsoluteMadLad_44 (B1), Acadian_44 (B5), Adriana_45 (B1), Aelin_44 (B1), Aleia_45 (B1), AltPhacts_45 (B1), Altwerkus_44 (B1), Anderson_45 (B1), Andre_45 (B1), AngelCake_45 (B1), Antonia_44 (B1), Aonishiki_45 (B1), Apizium_44 (B1), Ashraf_44 (B1), Azuria_44 (B1), Badfish_45 (B1), Baee_43 (B5), Banjo_44 (B1), Basato_46 (B1), BatteryCK_44 (B1), Beaglebox_44 (B1), Bishoperium_44 (B1), BlackStallion_45 (B1), BlacksBerry_44 (B1), BlueHusk_45 (B1), Bluephacebaby_44 (B1), Boehler_45 (B1), BoogieWoogie_45 (B1), Brilliant_45 (B1), Buckeye_45 (B1), Burr_44 (B1), CRB2_46 (B9), CamL_45 (B1), CampRoach_45 (B1), Cannibal_45 (B1), Carthage_43 (B1), Caspiboi_44 (B1), Chaelin_45 (B1), Chah_46 (B1), Charles1_45 (B1), CharlieGBrown_44 (B1), CheetO_45 (B1), Cher_44 (B1), Childish_44 (B1), Chipette_46 (B1), Chorkpop_45 (B1), Chuni_45 (B1), Chunky_45 (B1), Chute_45 (B1), Cobra_45 (B1), Colbert_45 (B1), Coletti_45 (B1), Cornbread_44 (B1), Cornobble_44 (B1), Cosmolli16_44 (B1), Craff_45 (B1), Crownjwl_45 (B1), DaddyDaniels_45 (B1), Daffy_45 (B1), Daka_46 (B1), Dati_45 (B1), DelRivs_44 (B1), Derpp_44 (B1), Dice_44 (B1), DigitDog_43 (B5), Dingo_45 (B1), Dione_44 (B1), DirtJuice_45 (B1), Doddsville_45 (B1), DoesntMatter_44 (B1), DolOn_46 (B1), DonSanchon_44 (B1), Donny_44 (B5), DuchessDung_43 (B1), Duggie_44 (B1), Durga_45 (B1), EastView9101_42 (B5), ElvisPhasley_45 (B1), EmGer13_44 (B1), Emiris_45 (B1), EmpTee_45 (B1), Eremos_45 (B1), Etaye_45 (B1), Eugenia_45 (B1), Fang_45 (B1), Flake_45 (B1), FleetyMac_45 (B1), FluffyNinja_45 (B1), ForDig_37 (B6), Fozzie_44 (B1), Frankicide_45 (B1), FremontTroll_44 (B1), Freya_44 (B1), FriarPreacher_44 (B1), Fringe_45 (B1), FugateOSU_44 (B1), Funsized_46 (B9), Gareth_44 (B1), GeneCoco_45 (B1), Giraffe_45 (B1), Gophee_45 (B1), Grand2040_44 (B1), GreenChile_45 (B1), Gwennie1_45 (B1), Gwilliam_45 (B1), Gyarad_0045 (B1), HSavage_45 (B1), Haimas_45 (B1), Haleema_44 (B1), Hamish_45 (B1), Happabalu_45 (B1), Hartsy_45 (B1), Harvey_45 (B1), Hekos_42 (B1), Held_45 (B1), HenryJackson_44 (B1), Hertubise_45 (B1), Hetaeria_45 (B1), HighStump_44 (B1), Hocus_44 (B1), HogWash_45 (B1), Horchata_45 (B1), Hosp_035 (B6), ImtiyazSitla_44 (B1), Imvubu_36 (B10), Inchworm_45 (B1), Indlovu_42 (B11), Inverness_45 (B1), Iridessa_45 (B1), Iridoclysis_45 (B1), IsaacEli_45 (B1), JDog_44 (B1), JacAttac_45 (B1), JakeO_44 (B1), JangoPhett_45 (B1), Jbug01_45 (B1), Jesabah_45 (B1), Jillium_44 (B1), Jiminy_44 (B1), Jiraiya_44 (B1), Jolie1_037 (B6), KLucky39_45 (B1), Kahve_44 (B1), Kailash_45 (B1), KarasumaRum_45 (B5), Karn_44 (B1), Katniss_45 (B1), KayaCho_37 (B6), Keitherie_45 (B1), Khan1_44 (B1), Kikipoo_45 (B1), Kimbrough_45 (B1), KingTut_36 (B1), KingVeVeVe_45 (B1), Kiwot_45 (B1), KlimbOn_45 (B1), Kloppinator_45 (B1), Knocker_45 (B9), Kwadwo_44 (B1), Kwksand96_44 (B1), Labeouficaum_44 (B1),

Larson_46 (B1), LasagnaCat_45 (B1), Lasso_45 (B1), LeeLot_45 (B1), Lego3393_44 (B1), Legolas_44 (B1), Lehmann_45 (B1), LeiMonet_45 (B1), LemonSlice_45 (B1), LilMcDreamy_41 (B12), Longacauda_44 (B1), Lopsy_44 (B1), LostAndPhound_44 (B1), LuckyMarjie_44 (B1), Lulumae_44 (B1), Lulwa_45 (B1), Lumine_44 (B1), MRabcd_44 (B1), Mag7_44 (B1), Magic8_45 (B1), Mana_44 (B1), Manad_44 (B1), Maru_44 (B1), Maskar_44 (B1), Matalotodo_45 (B1), Mcshane_44 (B1), Mecca_44 (B1), Megamind20_45 (B1), Megatron_45 (B1), Melc17_45 (B1), MelsMeow_44 (B1), Mesh1_45 (B1), Mesmerelda_44 (B1), MichaelPhcott_44 (B1), Mikota_45 (B1), MiniBoss_45 (B1), Minnow_38 (B6), MitKao_45 (B1), Morgushi_45 (B1), Morty_45 (B1), Mosaic_44 (B1), MrPhizzler_45 (B1), Mulan_44 (B1), Murdoc_45 (B1), Mutante_44 (B1), Mysterious_43 (B5), Nacho_0045 (B1), Nangang_43 (B5), Nathan_45 (B1), Nehemiah_43 (B5), Nehme_44 (B1), Newman_45 (B1), NiaNia_47 (B1), Nicole21_45 (B1), Nova1_45 (B1), Numberten_45 (B1), Nyala_44 (B1), OSmaximus_45 (B1), Olak_44 (B1), Oline_44 (B1), Olive_45 (B1), OliverWalter_45 (B1), Omniscient_45 (B1), OneBrain_46 (B1), Oosterbaan_45 (B1), Orfeu_44 (B1), Orion_45 (B1), Orwigg_44 (B1), PG1_45 (B1), Pacifista_44 (B1), PallasAthena_44 (B1), PenguinLover67_46 (B9), Phamished_45 (B1), Phareon_45 (B1), PhatCats2014_45 (B1), PhatLouie_45 (B1), Phelemich_43 (B5), PhenghisKhan_44 (B1), Pherdinand_45 (B1), Phergie_44 (B1), Phipps_45 (B1), Phleuron_44 (B1), PhrankReynolds_43 (B1), PhrodoBaggins_44 (B1), Phunky_45 (B1), Piglet_0044 (B1), PinheadLarry_45 (B1), Pinkman_44 (B1), Pipsqueak_45 (B1), Placalicious_44 (B1), Plata_44 (B1), Plmatters_45 (B1), Podrick_45 (B1), Pops_45 (B1), Potter_44 (B1), Prickles_45 (B1), ProfessorX_45 (B1), Puhltonio_45 (B1), QueenBeane_45 (B1), Quesadilla_46 (B9), Quisquiliae_45 (B1), Reccee_44 (B5), RedMaple_44 (B1), RedRaider89_46 (B1), Reprobate_44 (B5), Rich_42 (B5), Ricotta_44 (B1), Riggan_45 (B1), Rimu_45 (B1), Rita130_44 (B5), Riverton_45 (B1), Robyn_44 (B1), Roliet_45 (B1), Roscoe_46 (B1), Roy17_45 (B1), SDcharge11_45 (B1), Saguaro_45 (B7), Salazzle_45 (B1), SallyH_45 (B1), Samaymay_45 (B1), SassyCat97_44 (B1), Schadenfreude_44 (B1), Schueller_44 (B1), Scoot17C_45 (B1), Scrick_45 (B1), Selr12_45 (B1), Septica_44 (B1), Serendipitous_43 (B5), Serendipity_45 (B1), Serpentine_0045 (B1), ShadowBud_45 (B1), Sheila_45 (B1), Shenyu_43 (B5), ShiVal_45 (B1), Sigman_45 (B1), SilverBell_45 (B1), Simielle_44 (B1), SirBeauregard_45 (B1), SirJeffery_44 (B5), Skippy_45 (B1), Slatt_45 (B1), Soile_45 (B1), Solosis_44 (B1), Sophia_44 (B1), Soto_45 (B1), Spartan300_45 (B1), Squid_45 (B1), Squiggle_45 (B1), StinkyVeggy_45 (B5), Struggle_44 (B1), Suffolk_45 (B1), Suigeneris_44 (B5), Surely_45 (B1), Swiphy_45 (B1), Swish_45 (B1), TallGrassMM_45 (B1), Taraxa_45 (B1), Telesworld_44 (B1), Thora_45 (B1), ThreeOh3D2_45 (B1), Thunderbird_44 (B1), Timmi_44 (B1), TomBombadil_45 (B1), Tomlarah_45 (B1), Toni_44 (B1), TooFast2Furius_46 (B1), Tooj_45 (B1), Triad_45 (B1), True_44 (B1), Trypo_45 (B1), TyrionL_44 (B1), UAch1_45 (B1), UncleHowie_45 (B1), Usavi_45 (B1), Vaishali24_44 (B1), Valjean_45 (B1), Vaticameos_41 (B1), Vectra_44 (B1), Veritas_44 (B1), Virapocalypse_45 (B1), Virgeve_44 (B1), Vista_45 (B1), Vivaldi_45 (B1), Vortex_45 (B1), Wallhey_44 (B1), Waterdiva_45 (B1), Weher20_45 (B1), Windsor_44 (B1), Xavier_44 (B1), Yoshand_45 (B1), YouGoGlencoco_45 (B1), Zaider_46 (B1), Zelda_45 (B1), Zonia_45 (B1),

Start 52:
• Found in 40 of 662 (6.0%) of genes in pham
• Manual Annotations of this start: 29 of 590
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ahwei_39 (B4), AlanGrant_42 (B4), Antihero_39 (B4), Apex_41 (B4), Austelle_41 (B4), BobbyK_41 (B4), BrownCNA_42 (B4), ChrisnMich_40 (B4), Cooper_41 (B4), Epah_39 (B4), Fanaw_39 (B4),

Fortunato_41 (B4), Frederick_41 (B4), GinPorsche_40 (B4), Hally898_39 (B4), Hangman_40 (B4), Heath_39 (B4), Hydro_40 (B4), JAMaL_40 (B4), JaguarMi_40 (B4), JoyceMaria_40 (B4), Lambano_39 (B4), LittleDigger_39 (B4), Lolalove_40 (B4), Magpie_39 (B4), Mithril_40 (B4), Mudslide_40 (B4), Nanao_39 (B4), Nigel_39 (B4), Poster_39 (B4), Prince_40 (B4), QueenPie_39 (B4), RawrgerThat_41 (B4), Renkei_39 (B4), Stinger_39 (B4), Vincenzo_41 (B4), VioletZ_41 (B4), Waleliano_40 (B4), Xincheng_39 (B4), Zemanar_41 (B4),

Start 53:
• Found in 6 of 662 (0.9%) of genes in pham
• Manual Annotations of this start: 5 of 590
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BirdsNest_46 (B13), Coldpizza_41 (DR), Evaa_38 (DR), Hashim76_46 (B13), LittleMinkey_49 (B13), Zenteno07_48 (B13),

Start 54:
• Found in 2 of 662 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Lukepolites_69 (singleton),

Start 55:
• Found in 42 of 662 (6.3%) of genes in pham
• Manual Annotations of this start: 35 of 590
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Allegro_44 (B2), Ares_44 (B2), Bananafish_44 (B2), Blocker23_44 (B2), Boyle_44 (B2), Brownie5_44 (B2), Calamitous_44 (B2), Coffee_44 (B2), Eaglehorse_44 (B2), Faze9_43 (B2), FrenchFry_44 (B2), Glass_44 (B2), Godines_44 (B2), Hedgerow_44 (B2), Holeinone_44 (B2), ItsyBitsy1_44 (B2), Kaleb_44 (B2), Kheth_44 (B2), Kolhan_44 (B2), Lars_44 (B2), Laurie_43 (B2), Lephleur_44 (B2), LilSmirk_44 (B2), LizLemon_44 (B2), MasterPo_44 (B2), Opia_44 (B2), Phantasmagoria_44 (B2), PrinceCharming_44 (B2), Rhinoforte_44 (B2), Rinkes_44 (B9), Sabella_43 (B2), TA17A_45 (B2), Tinciduntsolum_45 (B2), Tres_44 (B2), Vic9_00043 (B2), West99_44 (B2),

Start 57:
• Found in 16 of 662 (2.4%) of genes in pham
• Manual Annotations of this start: 13 of 590
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Clap_30 (CZ2), Cynthia_30 (CZ2), Ebert_31 (CZ2), GemG_30 (CZ2), Gizermo_30 (CZ2), Haley23_30 (CZ2), Jalleen_30 (CZ2), Mocha12_30 (CZ2), Pine5_39 (singleton), Sahara_29 (CZ2), Savage_30 (CZ2), Sproutie_30 (CZ2), TuertoX_30 (CZ2), Vasanti_31 (CZ2), Whiteclaw_30 (CZ2), Yinzer_30 (CZ2),

Start 59:
• Found in 8 of 662 (1.2%) of genes in pham
• Manual Annotations of this start: 3 of 590
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Shambre1_30 (singleton), Spooky_39 (DN2), Squiddly_40 (DN2),

Start 62:
• Found in 5 of 662 (0.8%) of genes in pham
• Manual Annotations of this start: 5 of 590
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Brynnie_25 (AS1), Chickaboom_25 (AS1), Jamun_25 (AS1), Vulpecula_25 (AS1), WileyE_25 (AS1),

Start 63:
• Found in 12 of 662 (1.8%) of genes in pham
• Manual Annotations of this start: 10 of 590
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Avani_28 (F2), Bipolar_22 (F1), Che9d_28 (F2), Demsculpinboyz_28 (F2), Kenuha5_22 (F1), Kersh_23 (F1), Ogopogo_25 (F1), Pollywog_25 (F1), ShroomBoi_22 (F1), Yoshi_28 (F2),

Start 65:
• Found in 2 of 662 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 590
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LonelyBoi_35 (CY7), RayTheFireFly_38 (DB),

Start 66:
• Found in 13 of 662 (2.0%) of genes in pham
• Manual Annotations of this start: 2 of 590
• Called 15.4% of time when present
• Phage (with cluster) where this start called: Madiba_23 (F1), ThetaBob_24 (F4),

Start 68:
• Found in 485 of 662 (73.3%) of genes in pham
• Manual Annotations of this start: 41 of 590
• Called 9.5% of time when present
• Phage (with cluster) where this start called: Abidatro_27 (AS1), AlexMinion_24 (AS3), Amanises_27 (AS1), Amelia_27 (AS2), Amphitrite_26 (AS3), Andrew_28 (AS3), Antrice_26 (AS2), Apricot_38 (DN3), Atlantica_26 (AS3), Azaz_25 (AS3), BENtherdunthat_38 (DN1), Basilisk_26 (AS1), Camara_26 (AS3), Catfish_31 (CU5), Chicken_26 (AS1), Colusalem_27 (AS2), Coral_26 (AS2), Cote_27 (AS2), Crater_36 (DN3), Cygnet_25 (AS2), Damocles_28 (AS2), DanHam62_26 (AS3), Daob_27 (AS2), Fingolfin_26 (AS3), Frickyeah_39 (DN1), Galaxy_26 (AS1), Glotell_26 (AS3), GramZayde_26 (AS2), HannahPhantana_27 (AS2), Hugley_32 (CZ1), KHumphrey_26 (AS3), Kuleana_27 (AS2), Leona_25 (AS3), Lunar_27 (AS2), Melons_27 (AS2), Niblet_26 (AS1), Orcanus_26 (AS1), OtsoOtso_26 (AS2), Phistory_39 (DN1), PhluffyCoco_26 (AS3), Pineda_28 (AS2), Polka_26 (AS2), RedFox_26 (AS3), TaylorSipht_26 (AS1), Toad24_27 (AS1), Zixiang_26 (AS1),

Start 69:
• Found in 50 of 662 (7.6%) of genes in pham
• Manual Annotations of this start: 3 of 590
• Called 6.0% of time when present
• Phage (with cluster) where this start called: Arbiter_43 (B2), Qyrzula_41 (B2), Rosebush_43 (B2),

Summary by clusters:

There are 37 clusters represented in this pham: DN, singleton, CZ2, CZ1, DB, CZ8, B12, B13, B10, B11, P6, DR, CU5, I2, DN1, DN3, DN2, AS3, AS2, AS1, CY7, CY5, AI, N, Z, F1, F2, F4, B4, B5, B6, B7, B1, B2, B3, B8, B9,

Info for manual annotations of cluster AI:
•Start number 23 was manually annotated 1 time for cluster AI.
•Start number 26 was manually annotated 1 time for cluster AI.

Info for manual annotations of cluster AS1:
•Start number 62 was manually annotated 5 times for cluster AS1.
•Start number 68 was manually annotated 10 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 68 was manually annotated 14 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 21 was manually annotated 1 time for cluster AS3.
•Start number 68 was manually annotated 12 times for cluster AS3.

Info for manual annotations of cluster B1:
•Start number 50 was manually annotated 297 times for cluster B1.

Info for manual annotations of cluster B10:
•Start number 50 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:
•Start number 50 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:
•Start number 50 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:
•Start number 53 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:
•Start number 55 was manually annotated 34 times for cluster B2.
•Start number 69 was manually annotated 3 times for cluster B2.

Info for manual annotations of cluster B3:
•Start number 42 was manually annotated 53 times for cluster B3.

Info for manual annotations of cluster B4:
•Start number 52 was manually annotated 29 times for cluster B4.

Info for manual annotations of cluster B5:
•Start number 50 was manually annotated 11 times for cluster B5.

Info for manual annotations of cluster B6:
•Start number 50 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:
•Start number 50 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:
•Start number 48 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:
•Start number 50 was manually annotated 5 times for cluster B9.
•Start number 55 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster CU5:
•Start number 68 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CY5:
•Start number 45 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY7:
•Start number 65 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ1:
•Start number 45 was manually annotated 17 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 45 was manually annotated 1 time for cluster CZ2.
•Start number 57 was manually annotated 13 times for cluster CZ2.

Info for manual annotations of cluster CZ8:
•Start number 45 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DB:
•Start number 65 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DN:
•Start number 45 was manually annotated 4 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 45 was manually annotated 12 times for cluster DN1.
•Start number 68 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 59 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:
•Start number 68 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DR:
•Start number 32 was manually annotated 1 time for cluster DR.
•Start number 38 was manually annotated 5 times for cluster DR.
•Start number 40 was manually annotated 5 times for cluster DR.
•Start number 42 was manually annotated 10 times for cluster DR.
•Start number 53 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster F1:
•Start number 63 was manually annotated 6 times for cluster F1.
•Start number 66 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:
•Start number 63 was manually annotated 4 times for cluster F2.

Info for manual annotations of cluster F4:
•Start number 66 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster I2:
•Start number 47 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster N:
•Start number 47 was manually annotated 2 times for cluster N.

Info for manual annotations of cluster P6:
•Start number 47 was manually annotated 1 time for cluster P6.
•Start number 49 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster Z:
•Start number 45 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_7 Start: 3414, Stop: 3172, Start Num: 45
Candidate Starts for 32HC_7:
(Start: 42 @3423 has 63 MA's), (Start: 45 @3414 has 39 MA's), (60, 3384), (89, 3291), (92, 3273),

Gene: 39HC_037 Start: 36987, Stop: 36790, Start Num: 50
Candidate Starts for 39HC_037:
(Start: 50 @36987 has 319 MA's), (Start: 59 @36975 has 3 MA's), (78, 36948), (81, 36930), (91, 36897),

Gene: 40BC_037 Start: 36987, Stop: 36790, Start Num: 50
Candidate Starts for 40BC_037:
(Start: 50 @36987 has 319 MA's), (Start: 59 @36975 has 3 MA's), (78, 36948), (81, 36930), (91, 36897),

Gene: ABU_45 Start: 39190, Stop: 38975, Start Num: 50
Candidate Starts for ABU_45:
(20, 39292), (Start: 50 @39190 has 319 MA's), (Start: 68 @39160 has 41 MA's), (81, 39115),

Gene: Abidatro_27 Start: 19710, Stop: 19528, Start Num: 68
Candidate Starts for Abidatro_27:
(46, 19749), (Start: 68 @19710 has 41 MA's),

Gene: Abinghost_43 Start: 39027, Stop: 38791, Start Num: 42
Candidate Starts for Abinghost_43:
(Start: 42 @39027 has 63 MA's), (72, 38970), (88, 38904), (91, 38898),

Gene: AbsoluteMadLad_44 Start: 39199, Stop: 38984, Start Num: 50
Candidate Starts for AbsoluteMadLad_44:
(Start: 50 @39199 has 319 MA's), (Start: 68 @39169 has 41 MA's), (81, 39124),

Gene: Acadian_44 Start: 39648, Stop: 39439, Start Num: 50
Candidate Starts for Acadian_44:
(18, 39762), (20, 39756), (Start: 50 @39648 has 319 MA's), (Start: 68 @39633 has 41 MA's), (74, 39621), (81, 39588),

Gene: Adriana_45 Start: 39188, Stop: 38973, Start Num: 50
Candidate Starts for Adriana_45:
(20, 39290), (Start: 50 @39188 has 319 MA's), (Start: 68 @39158 has 41 MA's), (81, 39113),

Gene: Aelin_44 Start: 38754, Stop: 38539, Start Num: 50
Candidate Starts for Aelin_44:
(20, 38856), (Start: 50 @38754 has 319 MA's), (Start: 68 @38724 has 41 MA's), (81, 38679),

Gene: Ahwei_39 Start: 38171, Stop: 37965, Start Num: 52
Candidate Starts for Ahwei_39:
(Start: 52 @38171 has 29 MA's), (Start: 68 @38150 has 41 MA's), (78, 38123), (81, 38105), (87, 38087), (93, 38057), (95, 38051), (98, 38030),

Gene: Akoma_43 Start: 39031, Stop: 38795, Start Num: 42
Candidate Starts for Akoma_43:
(Start: 42 @39031 has 63 MA's), (72, 38974), (88, 38908), (91, 38902),

Gene: AksarBAT_38 Start: 33442, Stop: 33182, Start Num: 42
Candidate Starts for AksarBAT_38:
(29, 33475), (Start: 42 @33442 has 63 MA's), (Start: 68 @33400 has 41 MA's), (Start: 69 @33397 has 3 MA's), (85, 33346), (88, 33328), (95, 33301),

Gene: AlanGrant_42 Start: 39951, Stop: 39745, Start Num: 52
Candidate Starts for AlanGrant_42:
(Start: 52 @39951 has 29 MA's), (Start: 68 @39930 has 41 MA's), (72, 39924), (78, 39903), (81, 39885), (85, 39876), (87, 39867), (93, 39837), (94, 39834), (95, 39831),

Gene: Aleia_45 Start: 38768, Stop: 38553, Start Num: 50
Candidate Starts for Aleia_45:
(Start: 50 @38768 has 319 MA's), (Start: 68 @38738 has 41 MA's), (81, 38693), (91, 38660),

Gene: AlexMinion_24 Start: 18294, Stop: 18103, Start Num: 68
Candidate Starts for AlexMinion_24:
(13, 18519), (19, 18441), (Start: 21 @18429 has 1 MA's), (61, 18306), (Start: 68 @18294 has 41 MA's),

Gene: Allegro_44 Start: 39432, Stop: 39226, Start Num: 55
Candidate Starts for Allegro_44:
(Start: 55 @39432 has 35 MA's), (Start: 69 @39405 has 3 MA's), (72, 39402), (87, 39348), (94, 39315),

Gene: AltPhacts_45 Start: 39177, Stop: 38962, Start Num: 50
Candidate Starts for AltPhacts_45:
(20, 39279), (Start: 50 @39177 has 319 MA's), (Start: 68 @39147 has 41 MA's), (81, 39102),

Gene: Altwerkus_44 Start: 38878, Stop: 38663, Start Num: 50
Candidate Starts for Altwerkus_44:
(Start: 50 @38878 has 319 MA's), (Start: 68 @38848 has 41 MA's), (81, 38803),

Gene: Amanises_27 Start: 20160, Stop: 19957, Start Num: 68
Candidate Starts for Amanises_27:
(Start: 68 @20160 has 41 MA's),

Gene: Amelia_27 Start: 19057, Stop: 18836, Start Num: 68
Candidate Starts for Amelia_27:
(Start: 68 @19057 has 41 MA's),

Gene: Amphitrite_26 Start: 18730, Stop: 18515, Start Num: 68
Candidate Starts for Amphitrite_26:
(Start: 68 @18730 has 41 MA's),

Gene: AnClar_39 Start: 35606, Stop: 35379, Start Num: 40
Candidate Starts for AnClar_39:
(Start: 40 @35606 has 5 MA's), (90, 35489), (101, 35420),

Gene: AnarQue_40 Start: 34838, Stop: 34584, Start Num: 42
Candidate Starts for AnarQue_40:
(28, 34880), (Start: 42 @34838 has 63 MA's), (Start: 69 @34790 has 3 MA's), (85, 34739), (88, 34721), (95, 34694),

Gene: Anderson_45 Start: 39183, Stop: 38968, Start Num: 50
Candidate Starts for Anderson_45:
(20, 39285), (Start: 50 @39183 has 319 MA's), (Start: 68 @39153 has 41 MA's), (81, 39108),

Gene: Andre_45 Start: 39182, Stop: 38967, Start Num: 50
Candidate Starts for Andre_45:
(Start: 50 @39182 has 319 MA's), (Start: 68 @39152 has 41 MA's), (81, 39107), (91, 39074),

Gene: Andrew_28 Start: 19161, Stop: 18955, Start Num: 68
Candidate Starts for Andrew_28:
(Start: 68 @19161 has 41 MA's),

Gene: AngelCake_45 Start: 39202, Stop: 38987, Start Num: 50
Candidate Starts for AngelCake_45:
(Start: 50 @39202 has 319 MA's), (Start: 68 @39172 has 41 MA's), (81, 39127),

Gene: Antihero_39 Start: 38171, Stop: 37965, Start Num: 52
Candidate Starts for Antihero_39:
(Start: 52 @38171 has 29 MA's), (Start: 68 @38150 has 41 MA's), (78, 38123), (81, 38105), (87, 38087), (93, 38057), (95, 38051), (98, 38030),

Gene: Antonia_44 Start: 38754, Stop: 38539, Start Num: 50
Candidate Starts for Antonia_44:
(20, 38856), (Start: 50 @38754 has 319 MA's), (Start: 68 @38724 has 41 MA's), (81, 38679),

Gene: Antonio_35 Start: 29354, Stop: 29118, Start Num: 45
Candidate Starts for Antonio_35:
(Start: 45 @29354 has 39 MA's), (Start: 68 @29312 has 41 MA's), (77, 29291), (86, 29249), (96, 29201), (105, 29129),

Gene: Antrice_26 Start: 19359, Stop: 19168, Start Num: 68
Candidate Starts for Antrice_26:

(30, 19434), (31, 19431), (Start: 68 @19359 has 41 MA's),

Gene: Aonishiki_45 Start: 39226, Stop: 39011, Start Num: 50
Candidate Starts for Aonishiki_45:
(20, 39328), (Start: 50 @39226 has 319 MA's), (Start: 68 @39196 has 41 MA's), (81, 39151),

Gene: Apex_41 Start: 39377, Stop: 39171, Start Num: 52
Candidate Starts for Apex_41:
(Start: 52 @39377 has 29 MA's), (Start: 68 @39356 has 41 MA's), (78, 39329), (81, 39311), (87, 39293), (93, 39263), (95, 39257),

Gene: Apizium_44 Start: 38943, Stop: 38728, Start Num: 50
Candidate Starts for Apizium_44:
(Start: 50 @38943 has 319 MA's), (Start: 68 @38913 has 41 MA's), (81, 38868), (91, 38835),

Gene: Apricot_38 Start: 28904, Stop: 28710, Start Num: 68
Candidate Starts for Apricot_38:
(Start: 45 @28946 has 39 MA's), (Start: 68 @28904 has 41 MA's), (77, 28883), (86, 28841), (96, 28793),

Gene: Arbiter_43 Start: 39491, Stop: 39312, Start Num: 69
Candidate Starts for Arbiter_43:
(Start: 55 @39518 has 35 MA's), (Start: 69 @39491 has 3 MA's), (72, 39488), (87, 39434), (94, 39401),

Gene: Ares_44 Start: 39502, Stop: 39296, Start Num: 55
Candidate Starts for Ares_44:
(Start: 55 @39502 has 35 MA's), (Start: 69 @39475 has 3 MA's), (72, 39472), (87, 39418), (94, 39385),

Gene: Asapag_39 Start: 30538, Stop: 30302, Start Num: 45
Candidate Starts for Asapag_39:
(Start: 45 @30538 has 39 MA's), (Start: 68 @30496 has 41 MA's), (77, 30475), (86, 30433), (96, 30385),

Gene: Ashraf_44 Start: 38747, Stop: 38532, Start Num: 50
Candidate Starts for Ashraf_44:
(Start: 50 @38747 has 319 MA's), (Start: 68 @38717 has 41 MA's), (81, 38672), (91, 38639),

Gene: Athena_44 Start: 39778, Stop: 39542, Start Num: 42
Candidate Starts for Athena_44:
(Start: 42 @39778 has 63 MA's), (72, 39721), (88, 39655), (91, 39649),

Gene: Atlantica_26 Start: 18732, Stop: 18517, Start Num: 68
Candidate Starts for Atlantica_26:
(Start: 68 @18732 has 41 MA's),

Gene: Audrey_43 Start: 39027, Stop: 38791, Start Num: 42
Candidate Starts for Audrey_43:
(Start: 42 @39027 has 63 MA's), (72, 38970), (88, 38904), (91, 38898),

Gene: Austelle_41 Start: 39833, Stop: 39627, Start Num: 52
Candidate Starts for Austelle_41:
(Start: 52 @39833 has 29 MA's), (Start: 68 @39812 has 41 MA's), (78, 39785), (81, 39767), (87, 39749), (93, 39719), (95, 39713),

Gene: Avani_28 Start: 24082, Stop: 23903, Start Num: 63
Candidate Starts for Avani_28:
(Start: 49 @24106 has 1 MA's), (Start: 63 @24082 has 10 MA's), (Start: 66 @24076 has 2 MA's), (70, 24064), (76, 24049), (83, 24016), (101, 23920),

Gene: Axumite_38 Start: 32837, Stop: 32601, Start Num: 38
Candidate Starts for Axumite_38:
(37, 32840), (Start: 38 @32837 has 5 MA's), (Start: 47 @32816 has 5 MA's), (51, 32810), (67, 32786), (72, 32780), (94, 32690),

Gene: Azaz_25 Start: 18655, Stop: 18440, Start Num: 68
Candidate Starts for Azaz_25:
(Start: 21 @18790 has 1 MA's), (Start: 32 @18736 has 1 MA's), (61, 18667), (Start: 68 @18655 has 41 MA's),

Gene: Azuria_44 Start: 39205, Stop: 38990, Start Num: 50
Candidate Starts for Azuria_44:
(Start: 50 @39205 has 319 MA's), (Start: 68 @39175 has 41 MA's), (81, 39130),

Gene: BENtherdunthat_38 Start: 28707, Stop: 28513, Start Num: 68
Candidate Starts for BENtherdunthat_38:
(Start: 45 @28749 has 39 MA's), (Start: 68 @28707 has 41 MA's), (77, 28686), (86, 28644), (96, 28596),

Gene: Badfish_45 Start: 39213, Stop: 38998, Start Num: 50
Candidate Starts for Badfish_45:
(20, 39315), (Start: 50 @39213 has 319 MA's), (Start: 68 @39183 has 41 MA's), (81, 39138),

Gene: Baee_43 Start: 39550, Stop: 39341, Start Num: 50
Candidate Starts for Baee_43:
(Start: 50 @39550 has 319 MA's), (Start: 68 @39535 has 41 MA's), (74, 39523), (81, 39490), (91, 39457),

Gene: Baloo_43 Start: 39030, Stop: 38794, Start Num: 42
Candidate Starts for Baloo_43:
(Start: 42 @39030 has 63 MA's), (72, 38973), (88, 38907), (91, 38901),

Gene: Bananafish_44 Start: 39438, Stop: 39232, Start Num: 55
Candidate Starts for Bananafish_44:
(Start: 55 @39438 has 35 MA's), (Start: 69 @39411 has 3 MA's), (72, 39408), (87, 39354), (94, 39321),

Gene: Banjo_44 Start: 38888, Stop: 38673, Start Num: 50
Candidate Starts for Banjo_44:
(Start: 50 @38888 has 319 MA's), (Start: 68 @38858 has 41 MA's), (81, 38813), (91, 38780),

Gene: Basato_46 Start: 39467, Stop: 39252, Start Num: 50
Candidate Starts for Basato_46:
(Start: 50 @39467 has 319 MA's), (Start: 68 @39437 has 41 MA's), (81, 39392),

Gene: Basilisk_26 Start: 20189, Stop: 19986, Start Num: 68
Candidate Starts for Basilisk_26:
(Start: 68 @20189 has 41 MA's),

Gene: BatStarr_34 Start: 29521, Stop: 29285, Start Num: 45
Candidate Starts for BatStarr_34:
(Start: 45 @29521 has 39 MA's), (Start: 68 @29479 has 41 MA's), (86, 29416), (96, 29368), (98, 29356),

Gene: BatteryCK_44 Start: 38807, Stop: 38592, Start Num: 50
Candidate Starts for BatteryCK_44:
(Start: 50 @38807 has 319 MA's), (Start: 68 @38777 has 41 MA's), (81, 38732),

Gene: Beaglebox_44 Start: 38909, Stop: 38694, Start Num: 50
Candidate Starts for Beaglebox_44:
(Start: 50 @38909 has 319 MA's), (Start: 68 @38879 has 41 MA's), (81, 38834), (91, 38801),

Gene: BearBQ_38 Start: 30173, Stop: 29937, Start Num: 45
Candidate Starts for BearBQ_38:
(Start: 45 @30173 has 39 MA's), (Start: 68 @30131 has 41 MA's), (77, 30110), (86, 30068), (96, 30020),

Gene: BeeGee_38 Start: 30304, Stop: 30068, Start Num: 45
Candidate Starts for BeeGee_38:
(Start: 45 @30304 has 39 MA's), (Start: 68 @30262 has 41 MA's), (77, 30241), (86, 30199), (96, 30151),

Gene: Ben11_42 Start: 38849, Stop: 38613, Start Num: 42
Candidate Starts for Ben11_42:
(Start: 42 @38849 has 63 MA's), (72, 38792), (88, 38726), (91, 38720),

Gene: Bernardo_44 Start: 39575, Stop: 39339, Start Num: 42
Candidate Starts for Bernardo_44:
(Start: 42 @39575 has 63 MA's), (72, 39518), (88, 39452), (91, 39446),

Gene: BiggityBass_38 Start: 35067, Stop: 34840, Start Num: 40
Candidate Starts for BiggityBass_38:
(33, 35082), (Start: 40 @35067 has 5 MA's), (90, 34950), (101, 34881),

Gene: Bipolar_22 Start: 24352, Stop: 24173, Start Num: 63
Candidate Starts for Bipolar_22:
(Start: 49 @24376 has 1 MA's), (Start: 63 @24352 has 10 MA's), (Start: 66 @24346 has 2 MA's), (76, 24319), (83, 24286), (101, 24190),

Gene: BirdsNest_46 Start: 37877, Stop: 37662, Start Num: 53
Candidate Starts for BirdsNest_46:
(Start: 53 @37877 has 5 MA's), (Start: 68 @37853 has 41 MA's), (78, 37826), (85, 37799), (98, 37733), (102, 37703),

Gene: Bishoperium_44 Start: 38897, Stop: 38682, Start Num: 50
Candidate Starts for Bishoperium_44:
(20, 38999), (Start: 50 @38897 has 319 MA's), (Start: 68 @38867 has 41 MA's), (81, 38822),

Gene: BlackStallion_45 Start: 39199, Stop: 38984, Start Num: 50
Candidate Starts for BlackStallion_45:
(Start: 50 @39199 has 319 MA's), (Start: 68 @39169 has 41 MA's), (81, 39124), (91, 39091),

Gene: Blackpen_40 Start: 34256, Stop: 34002, Start Num: 42
Candidate Starts for Blackpen_40:
(28, 34298), (Start: 42 @34256 has 63 MA's), (Start: 69 @34208 has 3 MA's), (85, 34157), (88, 34139), (95, 34112),

Gene: BlacksBerry_44 Start: 38915, Stop: 38700, Start Num: 50
Candidate Starts for BlacksBerry_44:
(20, 39017), (Start: 50 @38915 has 319 MA's), (Start: 68 @38885 has 41 MA's), (81, 38840),

Gene: Blocker23_44 Start: 39556, Stop: 39350, Start Num: 55
Candidate Starts for Blocker23_44:
(Start: 55 @39556 has 35 MA's), (Start: 69 @39529 has 3 MA's), (72, 39526), (87, 39472), (94, 39439),

Gene: BlueHusk_45 Start: 38696, Stop: 38481, Start Num: 50
Candidate Starts for BlueHusk_45:
(Start: 50 @38696 has 319 MA's), (Start: 68 @38666 has 41 MA's), (81, 38621),

Gene: Bluephacebaby_44 Start: 38894, Stop: 38679, Start Num: 50
Candidate Starts for Bluephacebaby_44:
(Start: 50 @38894 has 319 MA's), (Start: 68 @38864 has 41 MA's), (81, 38819),

Gene: BobRoss2024_37 Start: 32952, Stop: 32707, Start Num: 40
Candidate Starts for BobRoss2024_37:
(28, 32994), (29, 32985), (Start: 40 @32952 has 5 MA's), (58, 32919), (64, 32910), (Start: 68 @32901 has 41 MA's), (85, 32847), (100, 32763),

Gene: BobbyK_41 Start: 39202, Stop: 38996, Start Num: 52
Candidate Starts for BobbyK_41:
(Start: 52 @39202 has 29 MA's), (Start: 68 @39181 has 41 MA's), (78, 39154), (81, 39136), (87, 39118), (93, 39088), (95, 39082),

Gene: Boehler_45 Start: 39200, Stop: 38985, Start Num: 50
Candidate Starts for Boehler_45:
(20, 39302), (Start: 50 @39200 has 319 MA's), (Start: 68 @39170 has 41 MA's), (81, 39125),

Gene: BoogieWoogie_45 Start: 38881, Stop: 38666, Start Num: 50
Candidate Starts for BoogieWoogie_45:
(20, 38983), (Start: 50 @38881 has 319 MA's), (Start: 68 @38851 has 41 MA's), (81, 38806),

Gene: Bosnia_34 Start: 29521, Stop: 29285, Start Num: 45
Candidate Starts for Bosnia_34:
(Start: 45 @29521 has 39 MA's), (Start: 68 @29479 has 41 MA's), (86, 29416), (96, 29368), (98, 29356),

Gene: Boyle_44 Start: 39557, Stop: 39351, Start Num: 55
Candidate Starts for Boyle_44:
(Start: 55 @39557 has 35 MA's), (Start: 69 @39530 has 3 MA's), (72, 39527), (87, 39473), (94, 39440),

Gene: Briakila_44 Start: 39797, Stop: 39561, Start Num: 42
Candidate Starts for Briakila_44:
(Start: 42 @39797 has 63 MA's), (72, 39740), (88, 39674), (91, 39668),

Gene: Brilliant_45 Start: 38905, Stop: 38690, Start Num: 50
Candidate Starts for Brilliant_45:
(Start: 50 @38905 has 319 MA's), (Start: 68 @38875 has 41 MA's), (81, 38830), (91, 38797),

Gene: BrownCNA_42 Start: 39463, Stop: 39257, Start Num: 52
Candidate Starts for BrownCNA_42:
(Start: 52 @39463 has 29 MA's), (Start: 68 @39442 has 41 MA's), (78, 39415), (81, 39397), (87, 39379), (93, 39349), (95, 39343),

Gene: Brownie5_44 Start: 39563, Stop: 39357, Start Num: 55
Candidate Starts for Brownie5_44:
(Start: 55 @39563 has 35 MA's), (Start: 69 @39536 has 3 MA's), (72, 39533), (87, 39479), (94, 39446),

Gene: Brynnie_25 Start: 19788, Stop: 19591, Start Num: 62
Candidate Starts for Brynnie_25:
(Start: 62 @19788 has 5 MA's),

Gene: Buckeye_45 Start: 39217, Stop: 39002, Start Num: 50
Candidate Starts for Buckeye_45:
(Start: 50 @39217 has 319 MA's), (Start: 68 @39187 has 41 MA's), (81, 39142),

Gene: Budski_39 Start: 30500, Stop: 30264, Start Num: 45
Candidate Starts for Budski_39:
(Start: 45 @30500 has 39 MA's), (Start: 68 @30458 has 41 MA's), (77, 30437), (86, 30395), (96, 30347),

Gene: Burr_44 Start: 38894, Stop: 38679, Start Num: 50
Candidate Starts for Burr_44:
(Start: 50 @38894 has 319 MA's), (Start: 68 @38864 has 41 MA's), (81, 38819),

Gene: Butters_32 Start: 26751, Stop: 26518, Start Num: 47
Candidate Starts for Butters_32:
(22, 26826), (Start: 23 @26823 has 1 MA's), (25, 26817), (43, 26760), (Start: 47 @26751 has 5 MA's), (60, 26727), (79, 26679), (96, 26601), (105, 26529),

Gene: CRB2_46 Start: 41727, Stop: 41521, Start Num: 50
Candidate Starts for CRB2_46:
(Start: 50 @41727 has 319 MA's), (Start: 68 @41706 has 41 MA's), (81, 41661), (85, 41652), (95, 41607), (102, 41556),

Gene: CaiB_40 Start: 34824, Stop: 34570, Start Num: 42
Candidate Starts for CaiB_40:
(28, 34866), (Start: 42 @34824 has 63 MA's), (Start: 69 @34776 has 3 MA's), (85, 34725), (88, 34707), (95, 34680),

Gene: Calamitous_44 Start: 39443, Stop: 39237, Start Num: 55
Candidate Starts for Calamitous_44:
(Start: 55 @39443 has 35 MA's), (Start: 69 @39416 has 3 MA's), (72, 39413), (87, 39359), (94, 39326),

Gene: CamL_45 Start: 39195, Stop: 38980, Start Num: 50
Candidate Starts for CamL_45:
(Start: 50 @39195 has 319 MA's), (Start: 68 @39165 has 41 MA's), (81, 39120), (91, 39087),

Gene: Camara_26 Start: 18733, Stop: 18518, Start Num: 68
Candidate Starts for Camara_26:
(Start: 68 @18733 has 41 MA's),

Gene: CampRoach_45 Start: 39185, Stop: 38970, Start Num: 50
Candidate Starts for CampRoach_45:
(20, 39287), (Start: 50 @39185 has 319 MA's), (Start: 68 @39155 has 41 MA's), (81, 39110),

Gene: Cannibal_45 Start: 39178, Stop: 38963, Start Num: 50
Candidate Starts for Cannibal_45:
(Start: 50 @39178 has 319 MA's), (Start: 68 @39148 has 41 MA's), (81, 39103), (91, 39070),

Gene: Carthage_43 Start: 38107, Stop: 37892, Start Num: 50
Candidate Starts for Carthage_43:
(Start: 50 @38107 has 319 MA's), (Start: 68 @38077 has 41 MA's), (81, 38032), (91, 37999),

Gene: Casbah_42 Start: 38879, Stop: 38643, Start Num: 42
Candidate Starts for Casbah_42:
(Start: 42 @38879 has 63 MA's), (72, 38822), (88, 38756), (91, 38750),

Gene: Caspiboi_44 Start: 38904, Stop: 38689, Start Num: 50
Candidate Starts for Caspiboi_44:
(Start: 50 @38904 has 319 MA's), (Start: 68 @38874 has 41 MA's), (81, 38829),

Gene: Catfish_31 Start: 25984, Stop: 25784, Start Num: 68
Candidate Starts for Catfish_31:
(10, 26254), (41, 26041), (Start: 68 @25984 has 41 MA's), (74, 25972), (91, 25897),

Gene: Causa_58 Start: 47837, Stop: 47532, Start Num: 23
Candidate Starts for Causa_58:
(4, 48239), (5, 48230), (7, 48038), (14, 47936), (16, 47915), (Start: 21 @47855 has 1 MA's), (Start: 23 @47837 has 1 MA's), (Start: 26 @47828 has 1 MA's), (33, 47798), (36, 47786),

Gene: ChaChing_43 Start: 39042, Stop: 38806, Start Num: 42
Candidate Starts for ChaChing_43:
(Start: 42 @39042 has 63 MA's), (72, 38985), (88, 38919), (91, 38913),

Gene: Chaelin_45 Start: 38892, Stop: 38677, Start Num: 50
Candidate Starts for Chaelin_45:
(20, 38994), (Start: 50 @38892 has 319 MA's), (Start: 68 @38862 has 41 MA's), (81, 38817),

Gene: Chah_46 Start: 39212, Stop: 38997, Start Num: 50
Candidate Starts for Chah_46:
(20, 39314), (Start: 50 @39212 has 319 MA's), (Start: 68 @39182 has 41 MA's), (81, 39137),

Gene: Chalmers_43 Start: 39834, Stop: 39598, Start Num: 42
Candidate Starts for Chalmers_43:
(Start: 42 @39834 has 63 MA's), (72, 39777), (88, 39711), (91, 39705),

Gene: Chandler_43 Start: 39810, Stop: 39574, Start Num: 42
Candidate Starts for Chandler_43:
(Start: 42 @39810 has 63 MA's), (72, 39753), (88, 39687), (91, 39681),

Gene: Charles1_45 Start: 39180, Stop: 38965, Start Num: 50
Candidate Starts for Charles1_45:
(20, 39282), (Start: 50 @39180 has 319 MA's), (Start: 68 @39150 has 41 MA's), (81, 39105),

Gene: CharlieGBrown_44 Start: 38770, Stop: 38555, Start Num: 50
Candidate Starts for CharlieGBrown_44:
(20, 38872), (Start: 50 @38770 has 319 MA's), (Start: 68 @38740 has 41 MA's), (81, 38695),

Gene: CharlottesWeb_38 Start: 32778, Stop: 32527, Start Num: 32
Candidate Starts for CharlottesWeb_38:
(Start: 32 @32778 has 1 MA's), (37, 32766), (Start: 38 @32763 has 5 MA's), (67, 32712), (72, 32706), (94, 32616),

Gene: Che9d_28 Start: 24090, Stop: 23911, Start Num: 63
Candidate Starts for Che9d_28:
(Start: 49 @24114 has 1 MA's), (Start: 63 @24090 has 10 MA's), (Start: 66 @24084 has 2 MA's), (76, 24057), (83, 24024), (101, 23928),

Gene: CheeseTouch_37 Start: 27100, Stop: 26864, Start Num: 45
Candidate Starts for CheeseTouch_37:
(Start: 45 @27100 has 39 MA's), (Start: 68 @27058 has 41 MA's), (77, 27037), (86, 26995), (96, 26947),

Gene: CheetO_45 Start: 39194, Stop: 38979, Start Num: 50
Candidate Starts for CheetO_45:
(20, 39296), (Start: 50 @39194 has 319 MA's), (Start: 68 @39164 has 41 MA's), (81, 39119),

Gene: Chentzyk_43 Start: 39391, Stop: 39155, Start Num: 42
Candidate Starts for Chentzyk_43:
(Start: 42 @39391 has 63 MA's), (72, 39334), (88, 39268), (91, 39262),

Gene: Cher_44 Start: 38917, Stop: 38702, Start Num: 50
Candidate Starts for Cher_44:
(Start: 50 @38917 has 319 MA's), (Start: 68 @38887 has 41 MA's), (81, 38842), (91, 38809),

Gene: Chickaboom_25 Start: 18878, Stop: 18663, Start Num: 62
Candidate Starts for Chickaboom_25:
(Start: 62 @18878 has 5 MA's),

Gene: Chicken_26 Start: 20027, Stop: 19824, Start Num: 68
Candidate Starts for Chicken_26:
(Start: 68 @20027 has 41 MA's),

Gene: Childish_44 Start: 38920, Stop: 38705, Start Num: 50
Candidate Starts for Childish_44:
(Start: 50 @38920 has 319 MA's), (Start: 68 @38890 has 41 MA's), (81, 38845), (91, 38812),

Gene: Chipette_46 Start: 39410, Stop: 39195, Start Num: 50
Candidate Starts for Chipette_46:
(Start: 50 @39410 has 319 MA's), (Start: 68 @39380 has 41 MA's), (81, 39335),

Gene: Chorkpop_45 Start: 38916, Stop: 38701, Start Num: 50
Candidate Starts for Chorkpop_45:

(20, 39018), (Start: 50 @38916 has 319 MA's), (Start: 68 @38886 has 41 MA's), (81, 38841),

Gene: ChrisnMich_40 Start: 38163, Stop: 37957, Start Num: 52
Candidate Starts for ChrisnMich_40:
(Start: 52 @38163 has 29 MA's), (Start: 68 @38142 has 41 MA's), (78, 38115), (81, 38097), (87, 38079), (93, 38049), (95, 38043), (98, 38022),

Gene: Chuni_45 Start: 39211, Stop: 38996, Start Num: 50
Candidate Starts for Chuni_45:
(20, 39313), (Start: 50 @39211 has 319 MA's), (Start: 68 @39181 has 41 MA's), (81, 39136),

Gene: Chunky_45 Start: 39203, Stop: 38988, Start Num: 50
Candidate Starts for Chunky_45:
(Start: 50 @39203 has 319 MA's), (Start: 68 @39173 has 41 MA's), (81, 39128),

Gene: Chute_45 Start: 39241, Stop: 39026, Start Num: 50
Candidate Starts for Chute_45:
(20, 39343), (Start: 50 @39241 has 319 MA's), (Start: 68 @39211 has 41 MA's), (81, 39166),

Gene: Clap_30 Start: 25663, Stop: 25463, Start Num: 57
Candidate Starts for Clap_30:
(Start: 57 @25663 has 13 MA's), (74, 25642), (78, 25627), (80, 25615), (91, 25579),

Gene: CloverMinnie_40 Start: 34764, Stop: 34510, Start Num: 42
Candidate Starts for CloverMinnie_40:
(28, 34806), (Start: 42 @34764 has 63 MA's), (Start: 69 @34716 has 3 MA's), (85, 34665), (88, 34647), (95, 34620),

Gene: Cobra_45 Start: 39201, Stop: 38986, Start Num: 50
Candidate Starts for Cobra_45:
(Start: 50 @39201 has 319 MA's), (Start: 68 @39171 has 41 MA's), (81, 39126), (91, 39093),

Gene: Coco2012_38 Start: 32763, Stop: 32524, Start Num: 37
Candidate Starts for Coco2012_38:
(Start: 32 @32775 has 1 MA's), (37, 32763), (Start: 38 @32760 has 5 MA's), (67, 32709), (72, 32703), (94, 32613),

Gene: Coffee_44 Start: 39546, Stop: 39340, Start Num: 55
Candidate Starts for Coffee_44:
(Start: 55 @39546 has 35 MA's), (Start: 69 @39519 has 3 MA's), (72, 39516), (87, 39462), (94, 39429),

Gene: Colbert_45 Start: 39256, Stop: 39041, Start Num: 50
Candidate Starts for Colbert_45:
(Start: 50 @39256 has 319 MA's), (Start: 68 @39226 has 41 MA's), (81, 39181),

Gene: Coldpizza_41 Start: 37616, Stop: 37404, Start Num: 53
Candidate Starts for Coldpizza_41:
(Start: 38 @37640 has 5 MA's), (Start: 40 @37634 has 5 MA's), (Start: 53 @37616 has 5 MA's), (80, 37550), (85, 37535), (88, 37517), (93, 37496), (101, 37445),

Gene: Coletti_45 Start: 39241, Stop: 39026, Start Num: 50
Candidate Starts for Coletti_45:
(20, 39343), (Start: 50 @39241 has 319 MA's), (Start: 68 @39211 has 41 MA's), (81, 39166),

Gene: Colusalem_27 Start: 19035, Stop: 18814, Start Num: 68
Candidate Starts for Colusalem_27:
(Start: 68 @19035 has 41 MA's),

Gene: Compostia_44 Start: 39458, Stop: 39222, Start Num: 42
Candidate Starts for Compostia_44:
(Start: 42 @39458 has 63 MA's), (72, 39401), (88, 39335), (91, 39329),

Gene: Cooper_41 Start: 38382, Stop: 38176, Start Num: 52
Candidate Starts for Cooper_41:
(Start: 52 @38382 has 29 MA's), (Start: 68 @38361 has 41 MA's), (78, 38334), (81, 38316), (87, 38298), (93, 38268), (95, 38262),

Gene: Coral_26 Start: 18896, Stop: 18675, Start Num: 68
Candidate Starts for Coral_26:
(Start: 68 @18896 has 41 MA's),

Gene: Cornbread_44 Start: 38917, Stop: 38702, Start Num: 50
Candidate Starts for Cornbread_44:
(Start: 50 @38917 has 319 MA's), (Start: 68 @38887 has 41 MA's), (81, 38842), (91, 38809),

Gene: Cornobble_44 Start: 38755, Stop: 38540, Start Num: 50
Candidate Starts for Cornobble_44:
(20, 38857), (Start: 50 @38755 has 319 MA's), (Start: 68 @38725 has 41 MA's), (81, 38680),

Gene: Corofin_43 Start: 39053, Stop: 38817, Start Num: 42
Candidate Starts for Corofin_43:
(Start: 42 @39053 has 63 MA's), (72, 38996), (88, 38930), (91, 38924),

Gene: Cosmolli16_44 Start: 38905, Stop: 38690, Start Num: 50
Candidate Starts for Cosmolli16_44:
(Start: 50 @38905 has 319 MA's), (Start: 68 @38875 has 41 MA's), (81, 38830),

Gene: Cote_27 Start: 19041, Stop: 18820, Start Num: 68
Candidate Starts for Cote_27:
(Start: 68 @19041 has 41 MA's),

Gene: Craff_45 Start: 39198, Stop: 38983, Start Num: 50
Candidate Starts for Craff_45:
(20, 39300), (Start: 50 @39198 has 319 MA's), (Start: 68 @39168 has 41 MA's), (81, 39123),

Gene: Crater_36 Start: 28423, Stop: 28229, Start Num: 68
Candidate Starts for Crater_36:
(Start: 45 @28465 has 39 MA's), (Start: 68 @28423 has 41 MA's), (75, 28405), (77, 28402), (86, 28360), (96, 28312), (98, 28300), (105, 28240),

Gene: Crownjwl_45 Start: 38971, Stop: 38756, Start Num: 50
Candidate Starts for Crownjwl_45:
(20, 39073), (Start: 50 @38971 has 319 MA's), (Start: 68 @38941 has 41 MA's), (81, 38896),

Gene: Cygnet_25 Start: 19348, Stop: 19154, Start Num: 68
Candidate Starts for Cygnet_25:

(30, 19423), (31, 19420), (Start: 68 @19348 has 41 MA's),

Gene: Cynthia_30 Start: 25663, Stop: 25463, Start Num: 57
Candidate Starts for Cynthia_30:
(Start: 57 @25663 has 13 MA's), (74, 25642), (78, 25627), (80, 25615), (91, 25579),

Gene: DaddyDaniels_45 Start: 38889, Stop: 38674, Start Num: 50
Candidate Starts for DaddyDaniels_45:
(20, 38991), (Start: 50 @38889 has 319 MA's), (Start: 68 @38859 has 41 MA's), (81, 38814),

Gene: Daffy_45 Start: 38920, Stop: 38705, Start Num: 50
Candidate Starts for Daffy_45:
(Start: 50 @38920 has 319 MA's), (Start: 68 @38890 has 41 MA's), (81, 38845), (91, 38812),

Gene: Daisy_43 Start: 39054, Stop: 38818, Start Num: 42
Candidate Starts for Daisy_43:
(Start: 42 @39054 has 63 MA's), (72, 38997), (88, 38931), (91, 38925),

Gene: Daka_46 Start: 39193, Stop: 38978, Start Num: 50
Candidate Starts for Daka_46:
(Start: 50 @39193 has 319 MA's), (Start: 68 @39163 has 41 MA's), (81, 39118),

Gene: Damocles_28 Start: 19194, Stop: 18973, Start Num: 68
Candidate Starts for Damocles_28:
(Start: 68 @19194 has 41 MA's),

Gene: DanHam62_26 Start: 18732, Stop: 18517, Start Num: 68
Candidate Starts for DanHam62_26:
(Start: 68 @18732 has 41 MA's),

Gene: Daob_27 Start: 19046, Stop: 18825, Start Num: 68
Candidate Starts for Daob_27:
(Start: 68 @19046 has 41 MA's),

Gene: Dati_45 Start: 38914, Stop: 38699, Start Num: 50
Candidate Starts for Dati_45:
(Start: 50 @38914 has 319 MA's), (Start: 68 @38884 has 41 MA's), (81, 38839),

Gene: Deenasa_43 Start: 39789, Stop: 39553, Start Num: 42
Candidate Starts for Deenasa_43:
(Start: 42 @39789 has 63 MA's), (72, 39732), (88, 39666), (91, 39660),

Gene: DelRivs_44 Start: 38915, Stop: 38700, Start Num: 50
Candidate Starts for DelRivs_44:
(20, 39017), (Start: 50 @38915 has 319 MA's), (Start: 68 @38885 has 41 MA's), (81, 38840),

Gene: Demsculpinboyz_28 Start: 24075, Stop: 23896, Start Num: 63
Candidate Starts for Demsculpinboyz_28:
(Start: 49 @24099 has 1 MA's), (Start: 63 @24075 has 10 MA's), (Start: 66 @24069 has 2 MA's), (76, 24042), (83, 24009), (101, 23913),

Gene: Derpp_44 Start: 38759, Stop: 38544, Start Num: 50
Candidate Starts for Derpp_44:

(Start: 50 @38759 has 319 MA's), (Start: 68 @38729 has 41 MA's), (81, 38684), (91, 38651),

Gene: Devonte_43 Start: 39018, Stop: 38782, Start Num: 42
Candidate Starts for Devonte_43:
(Start: 42 @39018 has 63 MA's), (72, 38961), (88, 38895), (91, 38889),

Gene: Dice_44 Start: 38894, Stop: 38679, Start Num: 50
Candidate Starts for Dice_44:
(Start: 50 @38894 has 319 MA's), (Start: 68 @38864 has 41 MA's), (81, 38819), (91, 38786),

Gene: DigitDog_43 Start: 39348, Stop: 39139, Start Num: 50
Candidate Starts for DigitDog_43:
(20, 39456), (Start: 50 @39348 has 319 MA's), (Start: 68 @39333 has 41 MA's), (74, 39321),

Gene: Dillpickles_37 Start: 29398, Stop: 29162, Start Num: 45
Candidate Starts for Dillpickles_37:
(Start: 45 @29398 has 39 MA's), (Start: 68 @29356 has 41 MA's), (77, 29335), (86, 29293), (96, 29245), (105, 29173),

Gene: Dingo_45 Start: 39177, Stop: 38962, Start Num: 50
Candidate Starts for Dingo_45:
(Start: 50 @39177 has 319 MA's), (Start: 68 @39147 has 41 MA's), (81, 39102),

Gene: Dione_44 Start: 38899, Stop: 38684, Start Num: 50
Candidate Starts for Dione_44:
(Start: 50 @38899 has 319 MA's), (Start: 68 @38869 has 41 MA's), (81, 38824), (91, 38791),

Gene: DirtJuice_45 Start: 39183, Stop: 38968, Start Num: 50
Candidate Starts for DirtJuice_45:
(Start: 50 @39183 has 319 MA's), (Start: 68 @39153 has 41 MA's), (81, 39108),

Gene: Doddsville_45 Start: 38913, Stop: 38698, Start Num: 50
Candidate Starts for Doddsville_45:
(20, 39015), (Start: 50 @38913 has 319 MA's), (Start: 68 @38883 has 41 MA's), (81, 38838),

Gene: DoesntMatter_44 Start: 39186, Stop: 38971, Start Num: 50
Candidate Starts for DoesntMatter_44:
(20, 39288), (Start: 50 @39186 has 319 MA's), (Start: 68 @39156 has 41 MA's), (81, 39111),

Gene: DolOn_46 Start: 39423, Stop: 39208, Start Num: 50
Candidate Starts for DolOn_46:
(20, 39525), (Start: 50 @39423 has 319 MA's), (Start: 68 @39393 has 41 MA's), (81, 39348),

Gene: DonSanchon_44 Start: 38893, Stop: 38678, Start Num: 50
Candidate Starts for DonSanchon_44:
(20, 38995), (Start: 50 @38893 has 319 MA's), (Start: 68 @38863 has 41 MA's), (81, 38818),

Gene: Donny_44 Start: 39653, Stop: 39444, Start Num: 50
Candidate Starts for Donny_44:
(18, 39767), (20, 39761), (Start: 50 @39653 has 319 MA's), (Start: 68 @39638 has 41 MA's), (74, 39626), (81, 39593),

Gene: DuchessDung_43 Start: 38047, Stop: 37832, Start Num: 50

Candidate Starts for DuchessDung_43:
(Start: 50 @38047 has 319 MA's), (Start: 68 @38017 has 41 MA's), (81, 37972), (91, 37939),

Gene: Duggie_44 Start: 38915, Stop: 38700, Start Num: 50
Candidate Starts for Duggie_44:
(20, 39017), (Start: 50 @38915 has 319 MA's), (Start: 68 @38885 has 41 MA's), (81, 38840),

Gene: Durga_45 Start: 39213, Stop: 38998, Start Num: 50
Candidate Starts for Durga_45:
(20, 39315), (Start: 50 @39213 has 319 MA's), (Start: 68 @39183 has 41 MA's), (81, 39138),

Gene: Eaglehorse_44 Start: 39470, Stop: 39264, Start Num: 55
Candidate Starts for Eaglehorse_44:
(Start: 55 @39470 has 35 MA's), (Start: 69 @39443 has 3 MA's), (72, 39440), (87, 39386), (94, 39353),

Gene: EastView9101_42 Start: 39303, Stop: 39094, Start Num: 50
Candidate Starts for EastView9101_42:
(18, 39417), (20, 39411), (Start: 50 @39303 has 319 MA's), (Start: 68 @39288 has 41 MA's), (74, 39276), (81, 39243),

Gene: Ebert_31 Start: 25587, Stop: 25387, Start Num: 57
Candidate Starts for Ebert_31:
(Start: 57 @25587 has 13 MA's), (74, 25566), (78, 25551), (80, 25539), (91, 25503),

Gene: Ecliptus_40 Start: 31004, Stop: 30768, Start Num: 45
Candidate Starts for Ecliptus_40:
(Start: 45 @31004 has 39 MA's), (Start: 68 @30962 has 41 MA's), (77, 30941), (86, 30899), (96, 30851),

Gene: ElvisPhasley_45 Start: 39235, Stop: 39020, Start Num: 50
Candidate Starts for ElvisPhasley_45:
(Start: 50 @39235 has 319 MA's), (Start: 68 @39205 has 41 MA's), (81, 39160), (91, 39127),

Gene: EmGer13_44 Start: 38754, Stop: 38539, Start Num: 50
Candidate Starts for EmGer13_44:
(20, 38856), (Start: 50 @38754 has 319 MA's), (Start: 68 @38724 has 41 MA's), (81, 38679),

Gene: Emiris_45 Start: 39181, Stop: 38966, Start Num: 50
Candidate Starts for Emiris_45:
(Start: 50 @39181 has 319 MA's), (Start: 68 @39151 has 41 MA's), (81, 39106), (91, 39073),

Gene: EmpTee_45 Start: 39193, Stop: 38978, Start Num: 50
Candidate Starts for EmpTee_45:
(20, 39295), (Start: 50 @39193 has 319 MA's), (Start: 68 @39163 has 41 MA's), (81, 39118),

Gene: Epah_39 Start: 38171, Stop: 37965, Start Num: 52
Candidate Starts for Epah_39:
(Start: 52 @38171 has 29 MA's), (Start: 68 @38150 has 41 MA's), (78, 38123), (81, 38105), (87, 38087), (93, 38057), (95, 38051), (98, 38030),

Gene: Eremos_45 Start: 39192, Stop: 38977, Start Num: 50
Candidate Starts for Eremos_45:
(Start: 50 @39192 has 319 MA's), (Start: 68 @39162 has 41 MA's), (81, 39117),

Gene: Etaye_45 Start: 39183, Stop: 38968, Start Num: 50
Candidate Starts for Etaye_45:
(Start: 50 @39183 has 319 MA's), (Start: 68 @39153 has 41 MA's), (81, 39108),

Gene: Eudoria_35 Start: 29354, Stop: 29118, Start Num: 45
Candidate Starts for Eudoria_35:
(Start: 45 @29354 has 39 MA's), (Start: 68 @29312 has 41 MA's), (77, 29291), (86, 29249), (96, 29201), (105, 29129),

Gene: Eugenia_45 Start: 39202, Stop: 38987, Start Num: 50
Candidate Starts for Eugenia_45:
(20, 39304), (Start: 50 @39202 has 319 MA's), (Start: 68 @39172 has 41 MA's), (81, 39127), (91, 39094),

Gene: Evaa_38 Start: 33917, Stop: 33678, Start Num: 53
Candidate Starts for Evaa_38:
(Start: 38 @33941 has 5 MA's), (Start: 40 @33935 has 5 MA's), (Start: 53 @33917 has 5 MA's), (80, 33851), (101, 33746),

Gene: Eviarto_34 Start: 29497, Stop: 29261, Start Num: 45
Candidate Starts for Eviarto_34:
(Start: 45 @29497 has 39 MA's), (Start: 68 @29455 has 41 MA's), (86, 29392), (96, 29344), (98, 29332),

Gene: Fanaw_39 Start: 38868, Stop: 38662, Start Num: 52
Candidate Starts for Fanaw_39:
(Start: 52 @38868 has 29 MA's), (Start: 68 @38847 has 41 MA's), (78, 38820), (81, 38802), (87, 38784), (93, 38754), (95, 38748),

Gene: Fang_45 Start: 39206, Stop: 38991, Start Num: 50
Candidate Starts for Fang_45:
(20, 39308), (Start: 50 @39206 has 319 MA's), (Start: 68 @39176 has 41 MA's), (81, 39131),

Gene: Faze9_43 Start: 39566, Stop: 39360, Start Num: 55
Candidate Starts for Faze9_43:
(Start: 55 @39566 has 35 MA's), (Start: 69 @39539 has 3 MA's), (72, 39536), (87, 39482), (94, 39449),

Gene: FelixTres_39 Start: 34827, Stop: 34573, Start Num: 42
Candidate Starts for FelixTres_39:
(28, 34869), (Start: 42 @34827 has 63 MA's), (Start: 69 @34779 has 3 MA's), (85, 34728), (88, 34710), (95, 34683),

Gene: Fingolfin_26 Start: 18733, Stop: 18518, Start Num: 68
Candidate Starts for Fingolfin_26:
(Start: 68 @18733 has 41 MA's),

Gene: Flake_45 Start: 39248, Stop: 39033, Start Num: 50
Candidate Starts for Flake_45:
(20, 39350), (Start: 50 @39248 has 319 MA's), (Start: 68 @39218 has 41 MA's), (81, 39173),

Gene: FleetyMac_45 Start: 39201, Stop: 38986, Start Num: 50
Candidate Starts for FleetyMac_45:

(20, 39303), (Start: 50 @39201 has 319 MA's), (Start: 68 @39171 has 41 MA's), (81, 39126),

Gene: FluffyNinja_45 Start: 39199, Stop: 38984, Start Num: 50
Candidate Starts for FluffyNinja_45:
(Start: 50 @39199 has 319 MA's), (Start: 68 @39169 has 41 MA's), (81, 39124), (91, 39091),

Gene: ForDig_37 Start: 36976, Stop: 36779, Start Num: 50
Candidate Starts for ForDig_37:
(Start: 50 @36976 has 319 MA's), (Start: 59 @36964 has 3 MA's), (72, 36958), (78, 36937), (81, 36919),

Gene: Fortunato_41 Start: 39196, Stop: 38990, Start Num: 52
Candidate Starts for Fortunato_41:
(Start: 52 @39196 has 29 MA's), (Start: 68 @39175 has 41 MA's), (78, 39148), (81, 39130), (87, 39112), (93, 39082), (95, 39076),

Gene: Fozzie_44 Start: 39215, Stop: 39000, Start Num: 50
Candidate Starts for Fozzie_44:
(Start: 50 @39215 has 319 MA's), (Start: 68 @39185 has 41 MA's), (81, 39140), (91, 39107),

Gene: Frankicide_45 Start: 39211, Stop: 38996, Start Num: 50
Candidate Starts for Frankicide_45:
(Start: 50 @39211 has 319 MA's), (Start: 68 @39181 has 41 MA's), (81, 39136), (91, 39103),

Gene: Frederick_41 Start: 39202, Stop: 38996, Start Num: 52
Candidate Starts for Frederick_41:
(Start: 52 @39202 has 29 MA's), (Start: 68 @39181 has 41 MA's), (78, 39154), (81, 39136), (87, 39118), (93, 39088), (95, 39082),

Gene: FremontTroll_44 Start: 38953, Stop: 38738, Start Num: 50
Candidate Starts for FremontTroll_44:
(Start: 50 @38953 has 319 MA's), (Start: 68 @38923 has 41 MA's), (81, 38878),

Gene: FrenchFry_44 Start: 39560, Stop: 39354, Start Num: 55
Candidate Starts for FrenchFry_44:
(Start: 55 @39560 has 35 MA's), (Start: 69 @39533 has 3 MA's), (72, 39530), (87, 39476), (94, 39443),

Gene: Fresco_38 Start: 32837, Stop: 32601, Start Num: 38
Candidate Starts for Fresco_38:
(37, 32840), (Start: 38 @32837 has 5 MA's), (Start: 47 @32816 has 5 MA's), (51, 32810), (67, 32786), (72, 32780), (94, 32690),

Gene: Freya_44 Start: 38890, Stop: 38675, Start Num: 50
Candidate Starts for Freya_44:
(Start: 50 @38890 has 319 MA's), (Start: 68 @38860 has 41 MA's), (81, 38815), (91, 38782),

Gene: FriarPreacher_44 Start: 39217, Stop: 39002, Start Num: 50
Candidate Starts for FriarPreacher_44:
(Start: 50 @39217 has 319 MA's), (Start: 68 @39187 has 41 MA's), (81, 39142),

Gene: Frickyeah_39 Start: 28597, Stop: 28403, Start Num: 68
Candidate Starts for Frickyeah_39:

(Start: 45 @28639 has 39 MA's), (Start: 68 @28597 has 41 MA's), (77, 28576), (86, 28534), (96, 28486),

Gene: Fringe_45 Start: 39182, Stop: 38967, Start Num: 50
Candidate Starts for Fringe_45:
(20, 39284), (Start: 50 @39182 has 319 MA's), (Start: 68 @39152 has 41 MA's), (81, 39107),

Gene: FugateOSU_44 Start: 38895, Stop: 38680, Start Num: 50
Candidate Starts for FugateOSU_44:
(Start: 50 @38895 has 319 MA's), (Start: 68 @38865 has 41 MA's), (81, 38820),

Gene: Funsized_46 Start: 41756, Stop: 41544, Start Num: 50
Candidate Starts for Funsized_46:
(8, 42029), (12, 41957), (39, 41783), (Start: 50 @41756 has 319 MA's), (Start: 55 @41747 has 35 MA's), (71, 41723), (78, 41702), (81, 41684), (87, 41666),

Gene: Gadjet_44 Start: 39041, Stop: 38805, Start Num: 42
Candidate Starts for Gadjet_44:
(Start: 42 @39041 has 63 MA's), (72, 38984), (88, 38918), (91, 38912),

Gene: Galaxy_26 Start: 19656, Stop: 19465, Start Num: 68
Candidate Starts for Galaxy_26:
(Start: 68 @19656 has 41 MA's),

Gene: Gareth_44 Start: 38898, Stop: 38683, Start Num: 50
Candidate Starts for Gareth_44:
(Start: 50 @38898 has 319 MA's), (Start: 68 @38868 has 41 MA's), (81, 38823), (91, 38790),

Gene: GemG_30 Start: 25663, Stop: 25463, Start Num: 57
Candidate Starts for GemG_30:
(Start: 57 @25663 has 13 MA's), (74, 25642), (78, 25627), (80, 25615), (91, 25579),

Gene: GeneCoco_45 Start: 39207, Stop: 38992, Start Num: 50
Candidate Starts for GeneCoco_45:
(Start: 50 @39207 has 319 MA's), (Start: 68 @39177 has 41 MA's), (81, 39132), (91, 39099),

Gene: Gervas_43 Start: 39008, Stop: 38772, Start Num: 42
Candidate Starts for Gervas_43:
(Start: 42 @39008 has 63 MA's), (72, 38951), (88, 38885), (91, 38879),

Gene: Getalong_40 Start: 31359, Stop: 31123, Start Num: 45
Candidate Starts for Getalong_40:
(Start: 45 @31359 has 39 MA's), (Start: 68 @31317 has 41 MA's), (77, 31296), (86, 31254), (96, 31206),

Gene: GinPorsche_40 Start: 38171, Stop: 37965, Start Num: 52
Candidate Starts for GinPorsche_40:
(Start: 52 @38171 has 29 MA's), (Start: 68 @38150 has 41 MA's), (78, 38123), (81, 38105), (87, 38087), (93, 38057), (95, 38051), (98, 38030),

Gene: Giraffe_45 Start: 38901, Stop: 38686, Start Num: 50
Candidate Starts for Giraffe_45:
(20, 39003), (Start: 50 @38901 has 319 MA's), (Start: 68 @38871 has 41 MA's), (81, 38826),

Gene: Gizermo_30 Start: 25663, Stop: 25463, Start Num: 57
Candidate Starts for Gizermo_30:
(Start: 57 @25663 has 13 MA's), (74, 25642), (78, 25627), (80, 25615), (91, 25579),

Gene: Glass_44 Start: 39560, Stop: 39354, Start Num: 55
Candidate Starts for Glass_44:
(Start: 55 @39560 has 35 MA's), (Start: 69 @39533 has 3 MA's), (72, 39530), (87, 39476), (94, 39443),

Gene: GlenHope_44 Start: 39021, Stop: 38785, Start Num: 42
Candidate Starts for GlenHope_44:
(Start: 42 @39021 has 63 MA's), (72, 38964), (88, 38898), (91, 38892),

Gene: Glotell_26 Start: 18731, Stop: 18516, Start Num: 68
Candidate Starts for Glotell_26:
(Start: 21 @18866 has 1 MA's), (Start: 32 @18812 has 1 MA's), (61, 18743), (Start: 68 @18731 has 41 MA's),

Gene: Glubnar_44 Start: 39020, Stop: 38784, Start Num: 42
Candidate Starts for Glubnar_44:
(Start: 42 @39020 has 63 MA's), (72, 38963), (88, 38897), (91, 38891),

Gene: Godines_44 Start: 39502, Stop: 39296, Start Num: 55
Candidate Starts for Godines_44:
(Start: 55 @39502 has 35 MA's), (Start: 69 @39475 has 3 MA's), (72, 39472), (87, 39418), (94, 39385),

Gene: Gophee_45 Start: 39184, Stop: 38969, Start Num: 50
Candidate Starts for Gophee_45:
(20, 39286), (Start: 50 @39184 has 319 MA's), (Start: 68 @39154 has 41 MA's), (81, 39109),

Gene: GramZayde_26 Start: 18877, Stop: 18656, Start Num: 68
Candidate Starts for GramZayde_26:
(Start: 68 @18877 has 41 MA's),

Gene: Grand2040_44 Start: 38916, Stop: 38701, Start Num: 50
Candidate Starts for Grand2040_44:
(Start: 50 @38916 has 319 MA's), (Start: 68 @38886 has 41 MA's), (81, 38841), (91, 38808),

Gene: GreenChile_45 Start: 39192, Stop: 38977, Start Num: 50
Candidate Starts for GreenChile_45:
(20, 39294), (Start: 50 @39192 has 319 MA's), (Start: 68 @39162 has 41 MA's), (81, 39117),

Gene: Gwennie1_45 Start: 39262, Stop: 39047, Start Num: 50
Candidate Starts for Gwennie1_45:
(Start: 50 @39262 has 319 MA's), (Start: 68 @39232 has 41 MA's), (81, 39187), (91, 39154),

Gene: Gwilliam_45 Start: 39196, Stop: 38981, Start Num: 50
Candidate Starts for Gwilliam_45:
(Start: 50 @39196 has 319 MA's), (Start: 68 @39166 has 41 MA's), (81, 39121),

Gene: Gyarad_0045 Start: 39198, Stop: 38983, Start Num: 50
Candidate Starts for Gyarad_0045:
(Start: 50 @39198 has 319 MA's), (Start: 68 @39168 has 41 MA's), (81, 39123), (91, 39090),

Gene: HSavage_45 Start: 39202, Stop: 38987, Start Num: 50
Candidate Starts for HSavage_45:
(Start: 50 @39202 has 319 MA's), (Start: 68 @39172 has 41 MA's), (81, 39127), (91, 39094),

Gene: Haimas_45 Start: 39193, Stop: 38978, Start Num: 50
Candidate Starts for Haimas_45:
(Start: 50 @39193 has 319 MA's), (Start: 68 @39163 has 41 MA's), (81, 39118),

Gene: Haleema_44 Start: 38916, Stop: 38701, Start Num: 50
Candidate Starts for Haleema_44:
(Start: 50 @38916 has 319 MA's), (Start: 68 @38886 has 41 MA's), (81, 38841), (91, 38808),

Gene: Haley23_30 Start: 25663, Stop: 25463, Start Num: 57
Candidate Starts for Haley23_30:
(Start: 57 @25663 has 13 MA's), (74, 25642), (78, 25627), (80, 25615), (91, 25579),

Gene: Halfpint_42 Start: 38847, Stop: 38611, Start Num: 42
Candidate Starts for Halfpint_42:
(Start: 42 @38847 has 63 MA's), (72, 38790), (88, 38724), (91, 38718),

Gene: Hally898_39 Start: 38183, Stop: 37977, Start Num: 52
Candidate Starts for Hally898_39:
(Start: 52 @38183 has 29 MA's), (Start: 68 @38162 has 41 MA's), (78, 38135), (81, 38117), (87, 38099), (93, 38069), (95, 38063), (98, 38042),

Gene: Hamish_45 Start: 39185, Stop: 38970, Start Num: 50
Candidate Starts for Hamish_45:
(Start: 50 @39185 has 319 MA's), (Start: 68 @39155 has 41 MA's), (81, 39110),

Gene: Hangman_40 Start: 39194, Stop: 38988, Start Num: 52
Candidate Starts for Hangman_40:
(Start: 52 @39194 has 29 MA's), (Start: 68 @39173 has 41 MA's), (78, 39146), (81, 39128), (87, 39110), (93, 39080), (95, 39074),

Gene: HannahPhantana_27 Start: 19053, Stop: 18832, Start Num: 68
Candidate Starts for HannahPhantana_27:
(Start: 68 @19053 has 41 MA's),

Gene: Happabalu_45 Start: 38914, Stop: 38699, Start Num: 50
Candidate Starts for Happabalu_45:
(Start: 50 @38914 has 319 MA's), (Start: 68 @38884 has 41 MA's), (81, 38839),

Gene: Hartsy_45 Start: 39236, Stop: 39021, Start Num: 50
Candidate Starts for Hartsy_45:
(Start: 50 @39236 has 319 MA's), (Start: 68 @39206 has 41 MA's), (81, 39161),

Gene: Harvey_45 Start: 39211, Stop: 38996, Start Num: 50
Candidate Starts for Harvey_45:
(20, 39313), (Start: 50 @39211 has 319 MA's), (Start: 68 @39181 has 41 MA's), (81, 39136),

Gene: HarveySr_43 Start: 39014, Stop: 38778, Start Num: 42
Candidate Starts for HarveySr_43:

(Start: 42 @39014 has 63 MA's), (72, 38957), (88, 38891), (91, 38885),

Gene: Hashim76_46 Start: 38349, Stop: 38134, Start Num: 53
Candidate Starts for Hashim76_46:
(Start: 53 @38349 has 5 MA's), (Start: 68 @38325 has 41 MA's), (85, 38271), (102, 38175),

Gene: Heath_39 Start: 38801, Stop: 38595, Start Num: 52
Candidate Starts for Heath_39:
(Start: 52 @38801 has 29 MA's), (Start: 68 @38780 has 41 MA's), (78, 38753), (81, 38735), (87, 38717), (93, 38687), (95, 38681),

Gene: Heathcliff_43 Start: 38992, Stop: 38756, Start Num: 42
Candidate Starts for Heathcliff_43:
(Start: 42 @38992 has 63 MA's), (72, 38935), (88, 38869), (91, 38863),

Gene: Hedgerow_44 Start: 39542, Stop: 39336, Start Num: 55
Candidate Starts for Hedgerow_44:
(Start: 55 @39542 has 35 MA's), (Start: 69 @39515 has 3 MA's), (72, 39512), (87, 39458), (94, 39425),

Gene: Hekos_42 Start: 37765, Stop: 37550, Start Num: 50
Candidate Starts for Hekos_42:
(20, 37867), (Start: 50 @37765 has 319 MA's), (Start: 68 @37735 has 41 MA's), (81, 37690),

Gene: Held_45 Start: 38900, Stop: 38685, Start Num: 50
Candidate Starts for Held_45:
(20, 39002), (Start: 50 @38900 has 319 MA's), (Start: 68 @38870 has 41 MA's), (81, 38825),

Gene: HenryJackson_44 Start: 38916, Stop: 38701, Start Num: 50
Candidate Starts for HenryJackson_44:
(20, 39018), (Start: 50 @38916 has 319 MA's), (Start: 68 @38886 has 41 MA's), (81, 38841),

Gene: Herod_34 Start: 29521, Stop: 29285, Start Num: 45
Candidate Starts for Herod_34:
(Start: 45 @29521 has 39 MA's), (Start: 68 @29479 has 41 MA's), (86, 29416), (96, 29368), (98, 29356),

Gene: Hertubise_45 Start: 39207, Stop: 38992, Start Num: 50
Candidate Starts for Hertubise_45:
(Start: 50 @39207 has 319 MA's), (Start: 68 @39177 has 41 MA's), (81, 39132),

Gene: Hetaeria_45 Start: 39209, Stop: 38994, Start Num: 50
Candidate Starts for Hetaeria_45:
(Start: 50 @39209 has 319 MA's), (Start: 68 @39179 has 41 MA's), (81, 39134),

Gene: HighStump_44 Start: 38899, Stop: 38684, Start Num: 50
Candidate Starts for HighStump_44:
(20, 39001), (Start: 50 @38899 has 319 MA's), (Start: 68 @38869 has 41 MA's), (81, 38824),

Gene: Hocus_44 Start: 38905, Stop: 38690, Start Num: 50
Candidate Starts for Hocus_44:
(Start: 50 @38905 has 319 MA's), (Start: 68 @38875 has 41 MA's), (81, 38830), (91, 38797),

Gene: HogWash_45 Start: 39205, Stop: 38990, Start Num: 50

Candidate Starts for HogWash_45:
(Start: 50 @39205 has 319 MA's), (Start: 68 @39175 has 41 MA's), (81, 39130),

Gene: Holeinone_44 Start: 39422, Stop: 39216, Start Num: 55
Candidate Starts for Holeinone_44:
(Start: 55 @39422 has 35 MA's), (Start: 69 @39395 has 3 MA's), (72, 39392), (87, 39338), (94, 39305),

Gene: Holliday_38 Start: 29214, Stop: 28978, Start Num: 45
Candidate Starts for Holliday_38:
(Start: 45 @29214 has 39 MA's), (Start: 68 @29172 has 41 MA's), (77, 29151), (86, 29109), (96, 29061),

Gene: Horchata_45 Start: 39187, Stop: 38972, Start Num: 50
Candidate Starts for Horchata_45:
(20, 39289), (Start: 50 @39187 has 319 MA's), (Start: 68 @39157 has 41 MA's), (81, 39112),

Gene: Horus_39 Start: 30560, Stop: 30324, Start Num: 45
Candidate Starts for Horus_39:
(Start: 45 @30560 has 39 MA's), (Start: 68 @30518 has 41 MA's), (77, 30497), (86, 30455), (96, 30407),

Gene: Hosp_035 Start: 35180, Stop: 34983, Start Num: 50
Candidate Starts for Hosp_035:
(Start: 50 @35180 has 319 MA's), (Start: 59 @35168 has 3 MA's), (78, 35141), (81, 35123),

Gene: Hugley_32 Start: 29478, Stop: 29284, Start Num: 68
Candidate Starts for Hugley_32:
(Start: 45 @29520 has 39 MA's), (Start: 68 @29478 has 41 MA's), (86, 29415), (96, 29367), (98, 29355),

Gene: Hydro_40 Start: 39211, Stop: 39005, Start Num: 52
Candidate Starts for Hydro_40:
(Start: 52 @39211 has 29 MA's), (Start: 68 @39190 has 41 MA's), (78, 39163), (81, 39145), (87, 39127), (93, 39097), (95, 39091),

Gene: ImtiyazSitla_44 Start: 38747, Stop: 38532, Start Num: 50
Candidate Starts for ImtiyazSitla_44:
(Start: 50 @38747 has 319 MA's), (Start: 68 @38717 has 41 MA's), (81, 38672), (91, 38639),

Gene: Imvubu_36 Start: 35895, Stop: 35680, Start Num: 50
Candidate Starts for Imvubu_36:
(9, 36156), (12, 36096), (Start: 50 @35895 has 319 MA's), (Start: 55 @35886 has 35 MA's), (71, 35859), (78, 35838), (81, 35820), (93, 35772), (95, 35766),

Gene: Inchworm_45 Start: 39185, Stop: 38970, Start Num: 50
Candidate Starts for Inchworm_45:
(20, 39287), (Start: 50 @39185 has 319 MA's), (Start: 68 @39155 has 41 MA's), (81, 39110),

Gene: Indlovu_42 Start: 38503, Stop: 38300, Start Num: 50
Candidate Starts for Indlovu_42:
(20, 38602), (Start: 50 @38503 has 319 MA's), (Start: 68 @38485 has 41 MA's), (78, 38458), (81, 38440), (93, 38392),

Gene: Inverness_45 Start: 39199, Stop: 38984, Start Num: 50
Candidate Starts for Inverness_45:
(Start: 50 @39199 has 319 MA's), (Start: 68 @39169 has 41 MA's), (81, 39124), (91, 39091),

Gene: Iridessa_45 Start: 38901, Stop: 38686, Start Num: 50
Candidate Starts for Iridessa_45:
(Start: 50 @38901 has 319 MA's), (Start: 68 @38871 has 41 MA's), (81, 38826), (91, 38793),

Gene: Iridoclysis_45 Start: 39179, Stop: 38964, Start Num: 50
Candidate Starts for Iridoclysis_45:
(Start: 50 @39179 has 319 MA's), (Start: 68 @39149 has 41 MA's), (81, 39104),

Gene: IsaacEli_45 Start: 39203, Stop: 38988, Start Num: 50
Candidate Starts for IsaacEli_45:
(20, 39305), (Start: 50 @39203 has 319 MA's), (Start: 68 @39173 has 41 MA's), (81, 39128),

Gene: ItsyBitsy1_44 Start: 39424, Stop: 39218, Start Num: 55
Candidate Starts for ItsyBitsy1_44:
(Start: 55 @39424 has 35 MA's), (Start: 69 @39397 has 3 MA's), (72, 39394), (87, 39340), (94, 39307),

Gene: JAMaL_40 Start: 39382, Stop: 39176, Start Num: 52
Candidate Starts for JAMaL_40:
(Start: 52 @39382 has 29 MA's), (Start: 68 @39361 has 41 MA's), (78, 39334), (81, 39316), (87, 39298), (93, 39268), (95, 39262),

Gene: JCole_32 Start: 26177, Stop: 25941, Start Num: 45
Candidate Starts for JCole_32:
(Start: 45 @26177 has 39 MA's), (Start: 68 @26135 has 41 MA's), (75, 26117), (77, 26114), (79, 26102), (86, 26072), (96, 26024),

Gene: JDog_44 Start: 38916, Stop: 38701, Start Num: 50
Candidate Starts for JDog_44:
(Start: 50 @38916 has 319 MA's), (Start: 68 @38886 has 41 MA's), (81, 38841),

Gene: JacAttac_45 Start: 39185, Stop: 38970, Start Num: 50
Candidate Starts for JacAttac_45:
(Start: 50 @39185 has 319 MA's), (Start: 68 @39155 has 41 MA's), (81, 39110), (91, 39077),

Gene: Jackstina_40 Start: 38951, Stop: 38715, Start Num: 42
Candidate Starts for Jackstina_40:
(Start: 42 @38951 has 63 MA's), (72, 38894), (88, 38828), (91, 38822),

Gene: JaguarMi_40 Start: 38677, Stop: 38471, Start Num: 52
Candidate Starts for JaguarMi_40:
(Start: 52 @38677 has 29 MA's), (Start: 68 @38656 has 41 MA's), (78, 38629), (81, 38611), (87, 38593), (93, 38563), (95, 38557),

Gene: JakeO_44 Start: 38918, Stop: 38703, Start Num: 50
Candidate Starts for JakeO_44:
(Start: 50 @38918 has 319 MA's), (Start: 68 @38888 has 41 MA's), (81, 38843),

Gene: Jalleen_30 Start: 25302, Stop: 25102, Start Num: 57
Candidate Starts for Jalleen_30:

(Start: 57 @25302 has 13 MA's), (74, 25281), (78, 25266), (80, 25254), (91, 25218),

Gene: Jamun_25 Start: 19385, Stop: 19188, Start Num: 62
Candidate Starts for Jamun_25:
(1, 20447), (2, 20237), (3, 19964), (6, 19799), (Start: 62 @19385 has 5 MA's),

Gene: JangoPhett_45 Start: 39187, Stop: 38972, Start Num: 50
Candidate Starts for JangoPhett_45:
(Start: 50 @39187 has 319 MA's), (Start: 68 @39157 has 41 MA's), (81, 39112),

Gene: Jbug01_45 Start: 38410, Stop: 38195, Start Num: 50
Candidate Starts for Jbug01_45:
(Start: 50 @38410 has 319 MA's), (Start: 68 @38380 has 41 MA's), (81, 38335), (91, 38302),

Gene: JellyBelly_38 Start: 32766, Stop: 32530, Start Num: 38
Candidate Starts for JellyBelly_38:
(Start: 32 @32781 has 1 MA's), (37, 32769), (Start: 38 @32766 has 5 MA's), (67, 32715), (72, 32709), (94, 32619),

Gene: Jesabah_45 Start: 38918, Stop: 38703, Start Num: 50
Candidate Starts for Jesabah_45:
(Start: 50 @38918 has 319 MA's), (Start: 68 @38888 has 41 MA's), (81, 38843), (91, 38810),

Gene: Jillium_44 Start: 38909, Stop: 38694, Start Num: 50
Candidate Starts for Jillium_44:
(Start: 50 @38909 has 319 MA's), (Start: 68 @38879 has 41 MA's), (81, 38834),

Gene: Jiminy_44 Start: 38753, Stop: 38538, Start Num: 50
Candidate Starts for Jiminy_44:
(20, 38855), (Start: 50 @38753 has 319 MA's), (Start: 68 @38723 has 41 MA's), (81, 38678),

Gene: Jiraiya_44 Start: 38906, Stop: 38691, Start Num: 50
Candidate Starts for Jiraiya_44:
(20, 39008), (Start: 50 @38906 has 319 MA's), (Start: 68 @38876 has 41 MA's), (81, 38831),

Gene: Jolie1_037 Start: 36967, Stop: 36770, Start Num: 50
Candidate Starts for Jolie1_037:
(Start: 50 @36967 has 319 MA's), (Start: 59 @36955 has 3 MA's), (72, 36949), (78, 36928), (81, 36910),

Gene: JoyceMaria_40 Start: 39197, Stop: 38991, Start Num: 52
Candidate Starts for JoyceMaria_40:
(Start: 52 @39197 has 29 MA's), (Start: 68 @39176 has 41 MA's), (78, 39149), (81, 39131), (87, 39113), (93, 39083), (95, 39077),

Gene: KHumphrey_26 Start: 18730, Stop: 18515, Start Num: 68
Candidate Starts for KHumphrey_26:
(Start: 68 @18730 has 41 MA's),

Gene: KLucky39_45 Start: 39197, Stop: 38982, Start Num: 50
Candidate Starts for KLucky39_45:
(Start: 50 @39197 has 319 MA's), (Start: 68 @39167 has 41 MA's), (81, 39122), (91, 39089),

Gene: Kahve_44 Start: 38913, Stop: 38698, Start Num: 50
Candidate Starts for Kahve_44:
(Start: 50 @38913 has 319 MA's), (Start: 68 @38883 has 41 MA's), (81, 38838),

Gene: Kailash_45 Start: 39251, Stop: 39036, Start Num: 50
Candidate Starts for Kailash_45:
(Start: 50 @39251 has 319 MA's), (Start: 68 @39221 has 41 MA's), (81, 39176),

Gene: Kaleb_44 Start: 39557, Stop: 39351, Start Num: 55
Candidate Starts for Kaleb_44:
(Start: 55 @39557 has 35 MA's), (Start: 69 @39530 has 3 MA's), (72, 39527), (87, 39473), (94, 39440),

Gene: Kamiyu_43 Start: 39000, Stop: 38764, Start Num: 42
Candidate Starts for Kamiyu_43:
(Start: 42 @39000 has 63 MA's), (72, 38943), (88, 38877), (91, 38871),

Gene: KarasumaRum_45 Start: 39790, Stop: 39581, Start Num: 50
Candidate Starts for KarasumaRum_45:
(20, 39898), (Start: 50 @39790 has 319 MA's), (Start: 68 @39775 has 41 MA's), (74, 39763),

Gene: Karn_44 Start: 38913, Stop: 38698, Start Num: 50
Candidate Starts for Karn_44:
(20, 39015), (Start: 50 @38913 has 319 MA's), (Start: 68 @38883 has 41 MA's), (81, 38838),

Gene: Katniss_45 Start: 39212, Stop: 38997, Start Num: 50
Candidate Starts for Katniss_45:
(20, 39314), (Start: 50 @39212 has 319 MA's), (Start: 68 @39182 has 41 MA's), (81, 39137),

Gene: KayaCho_37 Start: 36966, Stop: 36766, Start Num: 50
Candidate Starts for KayaCho_37:
(Start: 50 @36966 has 319 MA's), (Start: 68 @36951 has 41 MA's), (78, 36924), (81, 36906),

Gene: Keitherie_45 Start: 39250, Stop: 39035, Start Num: 50
Candidate Starts for Keitherie_45:
(20, 39352), (Start: 50 @39250 has 319 MA's), (Start: 68 @39220 has 41 MA's), (81, 39175),

Gene: Kenna_38 Start: 29550, Stop: 29314, Start Num: 45
Candidate Starts for Kenna_38:
(Start: 45 @29550 has 39 MA's), (Start: 68 @29508 has 41 MA's), (77, 29487), (86, 29445), (96, 29397),

Gene: Kenuha5_22 Start: 24468, Stop: 24289, Start Num: 63
Candidate Starts for Kenuha5_22:
(Start: 49 @24492 has 1 MA's), (Start: 63 @24468 has 10 MA's), (Start: 66 @24462 has 2 MA's), (76, 24435), (83, 24402), (101, 24306),

Gene: Kersh_23 Start: 24511, Stop: 24332, Start Num: 63
Candidate Starts for Kersh_23:
(Start: 49 @24535 has 1 MA's), (Start: 63 @24511 has 10 MA's), (Start: 66 @24505 has 2 MA's), (76, 24478), (83, 24445), (101, 24349),

Gene: Khan1_44 Start: 38934, Stop: 38719, Start Num: 50
Candidate Starts for Khan1_44:

(Start: 50 @38934 has 319 MA's), (Start: 68 @38904 has 41 MA's), (81, 38859), (91, 38826),

Gene: Kheth_44 Start: 39445, Stop: 39239, Start Num: 55
Candidate Starts for Kheth_44:
(Start: 55 @39445 has 35 MA's), (Start: 69 @39418 has 3 MA's), (72, 39415), (87, 39361), (94, 39328),

Gene: Kikipoo_45 Start: 39203, Stop: 38988, Start Num: 50
Candidate Starts for Kikipoo_45:
(20, 39305), (Start: 50 @39203 has 319 MA's), (Start: 68 @39173 has 41 MA's), (81, 39128),

Gene: Kimbrough_45 Start: 38905, Stop: 38690, Start Num: 50
Candidate Starts for Kimbrough_45:
(20, 39007), (Start: 50 @38905 has 319 MA's), (Start: 68 @38875 has 41 MA's), (81, 38830),

Gene: KingTut_36 Start: 34574, Stop: 34359, Start Num: 50
Candidate Starts for KingTut_36:
(Start: 50 @34574 has 319 MA's), (Start: 68 @34544 has 41 MA's), (81, 34499), (91, 34466),

Gene: KingVeVeVe_45 Start: 39178, Stop: 38963, Start Num: 50
Candidate Starts for KingVeVeVe_45:
(Start: 50 @39178 has 319 MA's), (Start: 68 @39148 has 41 MA's), (81, 39103),

Gene: Kita_36 Start: 29363, Stop: 29127, Start Num: 45
Candidate Starts for Kita_36:
(Start: 45 @29363 has 39 MA's), (Start: 68 @29321 has 41 MA's), (77, 29300), (86, 29258), (96, 29210), (105, 29138),

Gene: Kiwot_45 Start: 38756, Stop: 38541, Start Num: 50
Candidate Starts for Kiwot_45:
(Start: 50 @38756 has 319 MA's), (Start: 68 @38726 has 41 MA's), (81, 38681),

Gene: KlimbOn_45 Start: 39191, Stop: 38976, Start Num: 50
Candidate Starts for KlimbOn_45:
(Start: 50 @39191 has 319 MA's), (Start: 68 @39161 has 41 MA's), (81, 39116), (91, 39083),

Gene: Kloppinator_45 Start: 39214, Stop: 38999, Start Num: 50
Candidate Starts for Kloppinator_45:
(20, 39316), (Start: 50 @39214 has 319 MA's), (Start: 68 @39184 has 41 MA's), (81, 39139), (91, 39106),

Gene: Knocker_45 Start: 40870, Stop: 40658, Start Num: 50
Candidate Starts for Knocker_45:
(20, 40978), (Start: 50 @40870 has 319 MA's), (Start: 55 @40861 has 35 MA's), (71, 40837), (73, 40831), (78, 40816), (81, 40798),

Gene: Kolhan_44 Start: 39436, Stop: 39230, Start Num: 55
Candidate Starts for Kolhan_44:
(Start: 55 @39436 has 35 MA's), (Start: 69 @39409 has 3 MA's), (72, 39406), (87, 39352), (94, 39319),

Gene: Kronus_42 Start: 39610, Stop: 39374, Start Num: 42
Candidate Starts for Kronus_42:
(Start: 42 @39610 has 63 MA's), (72, 39553), (88, 39487), (91, 39481),

Gene: Kuleana_27 Start: 19065, Stop: 18880, Start Num: 68
Candidate Starts for Kuleana_27:
(61, 19077), (Start: 68 @19065 has 41 MA's),

Gene: Kwadwo_44 Start: 38895, Stop: 38680, Start Num: 50
Candidate Starts for Kwadwo_44:
(Start: 50 @38895 has 319 MA's), (Start: 68 @38865 has 41 MA's), (81, 38820), (91, 38787),

Gene: Kwksand96_44 Start: 38764, Stop: 38549, Start Num: 50
Candidate Starts for Kwksand96_44:
(Start: 50 @38764 has 319 MA's), (Start: 68 @38734 has 41 MA's), (81, 38689), (91, 38656),

Gene: Labeouficaum_44 Start: 38759, Stop: 38544, Start Num: 50
Candidate Starts for Labeouficaum_44:
(Start: 50 @38759 has 319 MA's), (Start: 68 @38729 has 41 MA's), (81, 38684), (91, 38651),

Gene: Lambano_39 Start: 38183, Stop: 37977, Start Num: 52
Candidate Starts for Lambano_39:
(Start: 52 @38183 has 29 MA's), (Start: 68 @38162 has 41 MA's), (78, 38135), (81, 38117), (87, 38099), (93, 38069), (95, 38063), (98, 38042),

Gene: Lars_44 Start: 39547, Stop: 39341, Start Num: 55
Candidate Starts for Lars_44:
(Start: 55 @39547 has 35 MA's), (Start: 69 @39520 has 3 MA's), (72, 39517), (87, 39463), (94, 39430),

Gene: Larson_46 Start: 39308, Stop: 39093, Start Num: 50
Candidate Starts for Larson_46:
(20, 39410), (Start: 50 @39308 has 319 MA's), (Start: 68 @39278 has 41 MA's), (81, 39233),

Gene: LasagnaCat_45 Start: 39197, Stop: 38982, Start Num: 50
Candidate Starts for LasagnaCat_45:
(20, 39299), (Start: 50 @39197 has 319 MA's), (Start: 68 @39167 has 41 MA's), (81, 39122),

Gene: Lasso_45 Start: 39170, Stop: 38955, Start Num: 50
Candidate Starts for Lasso_45:
(Start: 50 @39170 has 319 MA's), (Start: 68 @39140 has 41 MA's), (81, 39095),

Gene: Laurie_43 Start: 38946, Stop: 38740, Start Num: 55
Candidate Starts for Laurie_43:
(Start: 55 @38946 has 35 MA's), (Start: 69 @38919 has 3 MA's), (72, 38916), (87, 38862), (94, 38829),

Gene: LeeLot_45 Start: 39201, Stop: 38986, Start Num: 50
Candidate Starts for LeeLot_45:
(20, 39303), (Start: 50 @39201 has 319 MA's), (Start: 68 @39171 has 41 MA's), (81, 39126),

Gene: Lego3393_44 Start: 39206, Stop: 38991, Start Num: 50
Candidate Starts for Lego3393_44:
(20, 39308), (Start: 50 @39206 has 319 MA's), (Start: 68 @39176 has 41 MA's), (81, 39131),

Gene: Legolas_44 Start: 38911, Stop: 38696, Start Num: 50
Candidate Starts for Legolas_44:
(Start: 50 @38911 has 319 MA's), (Start: 68 @38881 has 41 MA's), (81, 38836), (91, 38803),

Gene: Lehmann_45 Start: 38734, Stop: 38519, Start Num: 50
Candidate Starts for Lehmann_45:
(Start: 50 @38734 has 319 MA's), (Start: 68 @38704 has 41 MA's), (81, 38659), (91, 38626),

Gene: LeiMonet_45 Start: 38902, Stop: 38687, Start Num: 50
Candidate Starts for LeiMonet_45:
(20, 39004), (Start: 50 @38902 has 319 MA's), (Start: 68 @38872 has 41 MA's), (81, 38827),

Gene: LemonSlice_45 Start: 38898, Stop: 38683, Start Num: 50
Candidate Starts for LemonSlice_45:
(20, 39000), (Start: 50 @38898 has 319 MA's), (Start: 68 @38868 has 41 MA's), (81, 38823),

Gene: Leona_25 Start: 18655, Stop: 18440, Start Num: 68
Candidate Starts for Leona_25:
(Start: 21 @18790 has 1 MA's), (Start: 32 @18736 has 1 MA's), (61, 18667), (Start: 68 @18655 has 41 MA's),

Gene: Lephleur_44 Start: 39440, Stop: 39234, Start Num: 55
Candidate Starts for Lephleur_44:
(Start: 55 @39440 has 35 MA's), (Start: 69 @39413 has 3 MA's), (72, 39410), (87, 39356), (94, 39323),

Gene: Leroy_39 Start: 30561, Stop: 30325, Start Num: 45
Candidate Starts for Leroy_39:
(Start: 45 @30561 has 39 MA's), (Start: 68 @30519 has 41 MA's), (77, 30498), (86, 30456), (96, 30408),

Gene: LestyG_43 Start: 39031, Stop: 38795, Start Num: 42
Candidate Starts for LestyG_43:
(Start: 42 @39031 has 63 MA's), (72, 38974), (88, 38908), (91, 38902),

Gene: Ligma_38 Start: 32837, Stop: 32601, Start Num: 38
Candidate Starts for Ligma_38:
(37, 32840), (Start: 38 @32837 has 5 MA's), (Start: 47 @32816 has 5 MA's), (51, 32810), (67, 32786), (72, 32780), (94, 32690),

Gene: LilMcDreamy_41 Start: 38754, Stop: 38542, Start Num: 50
Candidate Starts for LilMcDreamy_41:
(20, 38862), (Start: 50 @38754 has 319 MA's), (Start: 68 @38736 has 41 MA's), (81, 38691), (95, 38637),

Gene: LilSmirk_44 Start: 39434, Stop: 39228, Start Num: 55
Candidate Starts for LilSmirk_44:
(Start: 55 @39434 has 35 MA's), (Start: 69 @39407 has 3 MA's), (72, 39404), (87, 39350), (94, 39317),

Gene: LittleDigger_39 Start: 38205, Stop: 37999, Start Num: 52
Candidate Starts for LittleDigger_39:
(Start: 52 @38205 has 29 MA's), (Start: 68 @38184 has 41 MA's), (78, 38157), (81, 38139), (87, 38121), (93, 38091), (95, 38085), (98, 38064),

Gene: LittleMinkey_49 Start: 38461, Stop: 38246, Start Num: 53
Candidate Starts for LittleMinkey_49:
(Start: 53 @38461 has 5 MA's), (Start: 68 @38437 has 41 MA's), (85, 38383), (102, 38287),

Gene: LittleMunchkin_40 Start: 36172, Stop: 35945, Start Num: 40
Candidate Starts for LittleMunchkin_40:
(Start: 40 @36172 has 5 MA's), (90, 36055), (95, 36031),

Gene: LizLemon_44 Start: 39556, Stop: 39350, Start Num: 55
Candidate Starts for LizLemon_44:
(Start: 55 @39556 has 35 MA's), (Start: 69 @39529 has 3 MA's), (72, 39526), (87, 39472), (94, 39439),

Gene: Lolalove_40 Start: 39208, Stop: 39002, Start Num: 52
Candidate Starts for Lolalove_40:
(Start: 52 @39208 has 29 MA's), (Start: 68 @39187 has 41 MA's), (78, 39160), (81, 39142), (87, 39124), (93, 39094), (95, 39088),

Gene: LonelyBoi_35 Start: 30866, Stop: 30690, Start Num: 65
Candidate Starts for LonelyBoi_35:
(Start: 65 @30866 has 2 MA's), (74, 30851), (80, 30824),

Gene: Longacauda_44 Start: 38903, Stop: 38688, Start Num: 50
Candidate Starts for Longacauda_44:
(Start: 50 @38903 has 319 MA's), (Start: 68 @38873 has 41 MA's), (81, 38828), (91, 38795),

Gene: Lopsy_44 Start: 38753, Stop: 38538, Start Num: 50
Candidate Starts for Lopsy_44:
(20, 38855), (Start: 50 @38753 has 319 MA's), (Start: 68 @38723 has 41 MA's), (81, 38678),

Gene: LostAndPhound_44 Start: 38904, Stop: 38689, Start Num: 50
Candidate Starts for LostAndPhound_44:
(20, 39006), (Start: 50 @38904 has 319 MA's), (Start: 68 @38874 has 41 MA's), (81, 38829),

Gene: LuckyMarjie_44 Start: 38913, Stop: 38698, Start Num: 50
Candidate Starts for LuckyMarjie_44:
(Start: 50 @38913 has 319 MA's), (Start: 68 @38883 has 41 MA's), (81, 38838), (91, 38805),

Gene: Lukepolites_69 Start: 44405, Stop: 44190, Start Num: 54
Candidate Starts for Lukepolites_69:
(54, 44405),

Gene: Lulumae_44 Start: 38895, Stop: 38680, Start Num: 50
Candidate Starts for Lulumae_44:
(Start: 50 @38895 has 319 MA's), (Start: 68 @38865 has 41 MA's), (81, 38820), (91, 38787),

Gene: Lulwa_45 Start: 39182, Stop: 38967, Start Num: 50
Candidate Starts for Lulwa_45:
(20, 39284), (Start: 50 @39182 has 319 MA's), (Start: 68 @39152 has 41 MA's), (81, 39107),

Gene: Lumine_44 Start: 38891, Stop: 38676, Start Num: 50
Candidate Starts for Lumine_44:
(20, 38993), (Start: 50 @38891 has 319 MA's), (Start: 68 @38861 has 41 MA's), (81, 38816),

Gene: Lunar_27 Start: 19041, Stop: 18820, Start Num: 68
Candidate Starts for Lunar_27:
(Start: 68 @19041 has 41 MA's),

Gene: Lutum_39 Start: 29550, Stop: 29314, Start Num: 45
Candidate Starts for Lutum_39:
(Start: 45 @29550 has 39 MA's), (Start: 68 @29508 has 41 MA's), (77, 29487), (86, 29445), (96, 29397),

Gene: MRabcd_44 Start: 38895, Stop: 38680, Start Num: 50
Candidate Starts for MRabcd_44:
(Start: 50 @38895 has 319 MA's), (Start: 68 @38865 has 41 MA's), (81, 38820), (91, 38787),

Gene: Madiba_23 Start: 24209, Stop: 24036, Start Num: 66
Candidate Starts for Madiba_23:
(Start: 49 @24239 has 1 MA's), (Start: 63 @24215 has 10 MA's), (Start: 66 @24209 has 2 MA's), (76, 24182), (83, 24149), (101, 24053),

Gene: Mag7_44 Start: 38801, Stop: 38586, Start Num: 50
Candidate Starts for Mag7_44:
(Start: 50 @38801 has 319 MA's), (Start: 68 @38771 has 41 MA's), (81, 38726),

Gene: Magic8_45 Start: 39236, Stop: 39021, Start Num: 50
Candidate Starts for Magic8_45:
(Start: 50 @39236 has 319 MA's), (Start: 68 @39206 has 41 MA's), (81, 39161),

Gene: Magpie_39 Start: 39044, Stop: 38838, Start Num: 52
Candidate Starts for Magpie_39:
(Start: 52 @39044 has 29 MA's), (Start: 68 @39023 has 41 MA's), (78, 38996), (81, 38978), (87, 38960), (93, 38930), (95, 38924),

Gene: MakoManhole_40 Start: 34842, Stop: 34588, Start Num: 42
Candidate Starts for MakoManhole_40:
(28, 34884), (Start: 42 @34842 has 63 MA's), (Start: 69 @34794 has 3 MA's), (85, 34743), (88, 34725), (95, 34698),

Gene: Mana_44 Start: 38910, Stop: 38695, Start Num: 50
Candidate Starts for Mana_44:
(Start: 50 @38910 has 319 MA's), (Start: 68 @38880 has 41 MA's), (81, 38835), (91, 38802),

Gene: Manad_44 Start: 38752, Stop: 38537, Start Num: 50
Candidate Starts for Manad_44:
(20, 38854), (Start: 50 @38752 has 319 MA's), (Start: 68 @38722 has 41 MA's), (81, 38677),

Gene: Manasvini_35 Start: 29355, Stop: 29119, Start Num: 45
Candidate Starts for Manasvini_35:
(Start: 45 @29355 has 39 MA's), (Start: 68 @29313 has 41 MA's), (77, 29292), (86, 29250), (96, 29202), (105, 29130),

Gene: Maridalia_34 Start: 29354, Stop: 29118, Start Num: 45
Candidate Starts for Maridalia_34:
(Start: 45 @29354 has 39 MA's), (Start: 68 @29312 has 41 MA's), (77, 29291), (86, 29249), (96, 29201), (105, 29129),

Gene: Mariokart_38 Start: 32762, Stop: 32526, Start Num: 38
Candidate Starts for Mariokart_38:

(Start: 32 @32777 has 1 MA's), (37, 32765), (Start: 38 @32762 has 5 MA's), (67, 32711), (72, 32705), (94, 32615),

Gene: Marley1013_43 Start: 39809, Stop: 39573, Start Num: 42
Candidate Starts for Marley1013_43:
(Start: 42 @39809 has 63 MA's), (72, 39752), (88, 39686), (91, 39680),

Gene: Marlia_43 Start: 39012, Stop: 38776, Start Num: 42
Candidate Starts for Marlia_43:
(Start: 42 @39012 has 63 MA's), (72, 38955), (88, 38889), (91, 38883),

Gene: Maru_44 Start: 38853, Stop: 38638, Start Num: 50
Candidate Starts for Maru_44:
(Start: 50 @38853 has 319 MA's), (Start: 68 @38823 has 41 MA's), (81, 38778), (91, 38745),

Gene: Maskar_44 Start: 38747, Stop: 38532, Start Num: 50
Candidate Starts for Maskar_44:
(Start: 50 @38747 has 319 MA's), (Start: 68 @38717 has 41 MA's), (81, 38672), (91, 38639),

Gene: MasterPo_44 Start: 39443, Stop: 39237, Start Num: 55
Candidate Starts for MasterPo_44:
(Start: 55 @39443 has 35 MA's), (Start: 69 @39416 has 3 MA's), (72, 39413), (87, 39359), (94, 39326),

Gene: Matalotodo_45 Start: 39196, Stop: 38981, Start Num: 50
Candidate Starts for Matalotodo_45:
(Start: 50 @39196 has 319 MA's), (Start: 68 @39166 has 41 MA's), (81, 39121),

Gene: Mcshane_44 Start: 38893, Stop: 38678, Start Num: 50
Candidate Starts for Mcshane_44:
(Start: 50 @38893 has 319 MA's), (Start: 68 @38863 has 41 MA's), (81, 38818), (91, 38785),

Gene: Mecca_44 Start: 38896, Stop: 38681, Start Num: 50
Candidate Starts for Mecca_44:
(20, 38998), (Start: 50 @38896 has 319 MA's), (Start: 68 @38866 has 41 MA's), (81, 38821),

Gene: Megamind20_45 Start: 38918, Stop: 38703, Start Num: 50
Candidate Starts for Megamind20_45:
(20, 39020), (Start: 50 @38918 has 319 MA's), (Start: 68 @38888 has 41 MA's), (81, 38843),

Gene: Megatron_45 Start: 39194, Stop: 38979, Start Num: 50
Candidate Starts for Megatron_45:
(20, 39296), (Start: 50 @39194 has 319 MA's), (Start: 68 @39164 has 41 MA's), (81, 39119),

Gene: Melc17_45 Start: 39191, Stop: 38976, Start Num: 50
Candidate Starts for Melc17_45:
(Start: 50 @39191 has 319 MA's), (Start: 68 @39161 has 41 MA's), (81, 39116),

Gene: Melons_27 Start: 19041, Stop: 18820, Start Num: 68
Candidate Starts for Melons_27:
(Start: 68 @19041 has 41 MA's),

Gene: MelsMeow_44 Start: 38797, Stop: 38582, Start Num: 50
Candidate Starts for MelsMeow_44:

(Start: 50 @38797 has 319 MA's), (Start: 68 @38767 has 41 MA's), (81, 38722), (91, 38689),

Gene: Mesh1_45 Start: 39208, Stop: 38993, Start Num: 50
Candidate Starts for Mesh1_45:
(Start: 50 @39208 has 319 MA's), (Start: 68 @39178 has 41 MA's), (81, 39133),

Gene: Mesmerelda_44 Start: 38906, Stop: 38691, Start Num: 50
Candidate Starts for Mesmerelda_44:
(20, 39008), (Start: 50 @38906 has 319 MA's), (Start: 68 @38876 has 41 MA's), (81, 38831),

Gene: MichaelPhcott_44 Start: 38798, Stop: 38583, Start Num: 50
Candidate Starts for MichaelPhcott_44:
(Start: 50 @38798 has 319 MA's), (Start: 68 @38768 has 41 MA's), (81, 38723),

Gene: Mikota_45 Start: 39181, Stop: 38966, Start Num: 50
Candidate Starts for Mikota_45:
(Start: 50 @39181 has 319 MA's), (Start: 68 @39151 has 41 MA's), (81, 39106), (91, 39073),

Gene: MiniBoss_45 Start: 39187, Stop: 38972, Start Num: 50
Candidate Starts for MiniBoss_45:
(Start: 50 @39187 has 319 MA's), (Start: 68 @39157 has 41 MA's), (81, 39112), (91, 39079),

Gene: Minnow_38 Start: 36956, Stop: 36756, Start Num: 50
Candidate Starts for Minnow_38:
(Start: 50 @36956 has 319 MA's), (Start: 68 @36941 has 41 MA's), (78, 36914), (81, 36896), (87, 36878),

Gene: MitKao_45 Start: 38902, Stop: 38687, Start Num: 50
Candidate Starts for MitKao_45:
(20, 39004), (Start: 50 @38902 has 319 MA's), (Start: 68 @38872 has 41 MA's), (81, 38827),

Gene: Mithril_40 Start: 39212, Stop: 39006, Start Num: 52
Candidate Starts for Mithril_40:
(Start: 52 @39212 has 29 MA's), (Start: 68 @39191 has 41 MA's), (78, 39164), (81, 39146), (87, 39128), (93, 39098), (95, 39092),

Gene: MmasiCarm_43 Start: 39013, Stop: 38777, Start Num: 42
Candidate Starts for MmasiCarm_43:
(Start: 42 @39013 has 63 MA's), (72, 38956), (88, 38890), (91, 38884),

Gene: Mocha12_30 Start: 25663, Stop: 25463, Start Num: 57
Candidate Starts for Mocha12_30:
(Start: 57 @25663 has 13 MA's), (74, 25642), (78, 25627), (80, 25615), (91, 25579),

Gene: Morgushi_45 Start: 38903, Stop: 38688, Start Num: 50
Candidate Starts for Morgushi_45:
(Start: 50 @38903 has 319 MA's), (Start: 68 @38873 has 41 MA's), (81, 38828), (91, 38795),

Gene: Mortcellus_42 Start: 39665, Stop: 39429, Start Num: 42
Candidate Starts for Mortcellus_42:
(Start: 42 @39665 has 63 MA's), (72, 39608), (88, 39542), (91, 39536),

Gene: Morty_45 Start: 39203, Stop: 38988, Start Num: 50

Candidate Starts for Morty_45:
(20, 39305), (Start: 50 @39203 has 319 MA's), (Start: 68 @39173 has 41 MA's), (81, 39128),

Gene: Morty007_43 Start: 39809, Stop: 39573, Start Num: 42
Candidate Starts for Morty007_43:
(Start: 42 @39809 has 63 MA's), (72, 39752), (88, 39686), (91, 39680),

Gene: Mosaic_44 Start: 38908, Stop: 38693, Start Num: 50
Candidate Starts for Mosaic_44:
(20, 39010), (Start: 50 @38908 has 319 MA's), (Start: 68 @38878 has 41 MA's), (81, 38833),

Gene: MossRose_40 Start: 34821, Stop: 34567, Start Num: 42
Candidate Starts for MossRose_40:
(28, 34863), (Start: 42 @34821 has 63 MA's), (Start: 69 @34773 has 3 MA's), (85, 34722), (88, 34704), (95, 34677),

Gene: MrPhizzler_45 Start: 38911, Stop: 38696, Start Num: 50
Candidate Starts for MrPhizzler_45:
(Start: 50 @38911 has 319 MA's), (Start: 68 @38881 has 41 MA's), (81, 38836), (91, 38803),

Gene: Mudslide_40 Start: 39444, Stop: 39238, Start Num: 52
Candidate Starts for Mudslide_40:
(Start: 52 @39444 has 29 MA's), (Start: 68 @39423 has 41 MA's), (78, 39396), (81, 39378), (87, 39360), (93, 39330), (95, 39324),

Gene: Mulan_44 Start: 38920, Stop: 38705, Start Num: 50
Candidate Starts for Mulan_44:
(Start: 50 @38920 has 319 MA's), (Start: 68 @38890 has 41 MA's), (81, 38845),

Gene: Mulaychimus_43 Start: 38995, Stop: 38759, Start Num: 42
Candidate Starts for Mulaychimus_43:
(Start: 42 @38995 has 63 MA's), (72, 38938), (88, 38872), (91, 38866),

Gene: Murdoc_45 Start: 39195, Stop: 38980, Start Num: 50
Candidate Starts for Murdoc_45:
(Start: 50 @39195 has 319 MA's), (Start: 68 @39165 has 41 MA's), (81, 39120), (91, 39087),

Gene: Mutante_44 Start: 38902, Stop: 38687, Start Num: 50
Candidate Starts for Mutante_44:
(20, 39004), (Start: 50 @38902 has 319 MA's), (Start: 68 @38872 has 41 MA's), (81, 38827),

Gene: Mysterious_43 Start: 39920, Stop: 39711, Start Num: 50
Candidate Starts for Mysterious_43:
(20, 40028), (Start: 50 @39920 has 319 MA's), (Start: 68 @39905 has 41 MA's), (81, 39860),

Gene: NHagos_38 Start: 33445, Stop: 33185, Start Num: 42
Candidate Starts for NHagos_38:
(29, 33478), (Start: 42 @33445 has 63 MA's), (Start: 68 @33403 has 41 MA's), (Start: 69 @33400 has 3 MA's), (85, 33349), (88, 33331), (95, 33304),

Gene: Nacho_0045 Start: 39197, Stop: 38982, Start Num: 50
Candidate Starts for Nacho_0045:
(20, 39299), (Start: 50 @39197 has 319 MA's), (Start: 68 @39167 has 41 MA's), (81, 39122),

Gene: Nanao_39 Start: 38170, Stop: 37964, Start Num: 52
Candidate Starts for Nanao_39:
(Start: 52 @38170 has 29 MA's), (Start: 68 @38149 has 41 MA's), (78, 38122), (81, 38104), (87, 38086), (93, 38056), (95, 38050), (98, 38029),

Gene: Nangang_43 Start: 39713, Stop: 39504, Start Num: 50
Candidate Starts for Nangang_43:
(20, 39821), (Start: 50 @39713 has 319 MA's), (Start: 68 @39698 has 41 MA's), (74, 39686),

Gene: Nathan_45 Start: 39233, Stop: 39018, Start Num: 50
Candidate Starts for Nathan_45:
(Start: 50 @39233 has 319 MA's), (Start: 68 @39203 has 41 MA's), (81, 39158), (91, 39125),

Gene: Nehemiah_43 Start: 39920, Stop: 39711, Start Num: 50
Candidate Starts for Nehemiah_43:
(20, 40028), (Start: 50 @39920 has 319 MA's), (Start: 68 @39905 has 41 MA's), (81, 39860),

Gene: Nehme_44 Start: 38929, Stop: 38714, Start Num: 50
Candidate Starts for Nehme_44:
(20, 39031), (Start: 50 @38929 has 319 MA's), (Start: 68 @38899 has 41 MA's), (81, 38854),

Gene: Neobush_35 Start: 29354, Stop: 29118, Start Num: 45
Candidate Starts for Neobush_35:
(Start: 45 @29354 has 39 MA's), (Start: 68 @29312 has 41 MA's), (77, 29291), (86, 29249), (96, 29201), (105, 29129),

Gene: Neos5_43 Start: 39824, Stop: 39588, Start Num: 42
Candidate Starts for Neos5_43:
(Start: 42 @39824 has 63 MA's), (72, 39767), (88, 39701), (91, 39695),

Gene: Newman_45 Start: 39194, Stop: 38979, Start Num: 50
Candidate Starts for Newman_45:
(Start: 50 @39194 has 319 MA's), (Start: 68 @39164 has 41 MA's), (81, 39119), (91, 39086),

Gene: NiaNia_47 Start: 38925, Stop: 38710, Start Num: 50
Candidate Starts for NiaNia_47:
(20, 39027), (Start: 50 @38925 has 319 MA's), (Start: 68 @38895 has 41 MA's), (81, 38850),

Gene: Niblet_26 Start: 20027, Stop: 19824, Start Num: 68
Candidate Starts for Niblet_26:
(Start: 68 @20027 has 41 MA's),

Gene: Nicole21_45 Start: 39192, Stop: 38977, Start Num: 50
Candidate Starts for Nicole21_45:
(Start: 50 @39192 has 319 MA's), (Start: 68 @39162 has 41 MA's), (81, 39117),

Gene: Nigel_39 Start: 38086, Stop: 37880, Start Num: 52
Candidate Starts for Nigel_39:
(Start: 52 @38086 has 29 MA's), (Start: 68 @38065 has 41 MA's), (78, 38038), (81, 38020), (87, 38002), (93, 37972), (95, 37966),

Gene: Nova1_45 Start: 38848, Stop: 38633, Start Num: 50

Candidate Starts for Nova1_45:
(Start: 50 @38848 has 319 MA's), (Start: 68 @38818 has 41 MA's), (81, 38773), (91, 38740),

Gene: Nozo_43 Start: 39789, Stop: 39553, Start Num: 42
Candidate Starts for Nozo_43:
(Start: 42 @39789 has 63 MA's), (72, 39732), (88, 39666), (91, 39660),

Gene: Numberten_45 Start: 39201, Stop: 38986, Start Num: 50
Candidate Starts for Numberten_45:
(20, 39303), (Start: 50 @39201 has 319 MA's), (Start: 68 @39171 has 41 MA's), (81, 39126),

Gene: Nyala_44 Start: 38894, Stop: 38679, Start Num: 50
Candidate Starts for Nyala_44:
(20, 38996), (Start: 50 @38894 has 319 MA's), (Start: 68 @38864 has 41 MA's), (81, 38819),

Gene: Nymphadora_34 Start: 29521, Stop: 29285, Start Num: 45
Candidate Starts for Nymphadora_34:
(Start: 45 @29521 has 39 MA's), (Start: 68 @29479 has 41 MA's), (86, 29416), (96, 29368), (98, 29356),

Gene: ODay_42 Start: 31024, Stop: 30788, Start Num: 45
Candidate Starts for ODay_42:
(Start: 45 @31024 has 39 MA's), (Start: 68 @30982 has 41 MA's), (77, 30961), (86, 30919), (96, 30871),

Gene: OSmaximus_45 Start: 39236, Stop: 39021, Start Num: 50
Candidate Starts for OSmaximus_45:
(Start: 50 @39236 has 319 MA's), (Start: 68 @39206 has 41 MA's), (81, 39161), (91, 39128),

Gene: Obutu_43 Start: 39013, Stop: 38777, Start Num: 42
Candidate Starts for Obutu_43:
(Start: 42 @39013 has 63 MA's), (72, 38956), (88, 38890), (91, 38884),

Gene: Ogopogo_25 Start: 24675, Stop: 24496, Start Num: 63
Candidate Starts for Ogopogo_25:
(Start: 49 @24699 has 1 MA's), (Start: 63 @24675 has 10 MA's), (Start: 66 @24669 has 2 MA's), (76, 24642), (83, 24609), (101, 24513),

Gene: Olak_44 Start: 38897, Stop: 38682, Start Num: 50
Candidate Starts for Olak_44:
(20, 38999), (Start: 50 @38897 has 319 MA's), (Start: 68 @38867 has 41 MA's), (81, 38822),

Gene: Oline_44 Start: 38763, Stop: 38548, Start Num: 50
Candidate Starts for Oline_44:
(20, 38865), (Start: 50 @38763 has 319 MA's), (Start: 68 @38733 has 41 MA's), (81, 38688),

Gene: Olive_45 Start: 39184, Stop: 38969, Start Num: 50
Candidate Starts for Olive_45:
(20, 39286), (Start: 50 @39184 has 319 MA's), (Start: 68 @39154 has 41 MA's), (81, 39109),

Gene: OliverWalter_45 Start: 39206, Stop: 38991, Start Num: 50
Candidate Starts for OliverWalter_45:
(Start: 50 @39206 has 319 MA's), (Start: 68 @39176 has 41 MA's), (81, 39131),

Gene: Olivio_42 Start: 38882, Stop: 38646, Start Num: 42
Candidate Starts for Olivio_42:
(Start: 42 @38882 has 63 MA's), (72, 38825), (88, 38759), (91, 38753),

Gene: Omniscient_45 Start: 39203, Stop: 38988, Start Num: 50
Candidate Starts for Omniscient_45:
(20, 39305), (Start: 50 @39203 has 319 MA's), (Start: 68 @39173 has 41 MA's), (81, 39128),

Gene: OneBrain_46 Start: 38902, Stop: 38687, Start Num: 50
Candidate Starts for OneBrain_46:
(20, 39004), (Start: 50 @38902 has 319 MA's), (Start: 68 @38872 has 41 MA's), (81, 38827),

Gene: Oosterbaan_45 Start: 39194, Stop: 38979, Start Num: 50
Candidate Starts for Oosterbaan_45:
(Start: 50 @39194 has 319 MA's), (Start: 68 @39164 has 41 MA's), (81, 39119),

Gene: Opia_44 Start: 39429, Stop: 39223, Start Num: 55
Candidate Starts for Opia_44:
(Start: 55 @39429 has 35 MA's), (Start: 69 @39402 has 3 MA's), (72, 39399), (87, 39345), (94, 39312),

Gene: OrangeOswald_43 Start: 39030, Stop: 38794, Start Num: 42
Candidate Starts for OrangeOswald_43:
(Start: 42 @39030 has 63 MA's), (72, 38973), (88, 38907), (91, 38901),

Gene: Orcanus_26 Start: 19951, Stop: 19748, Start Num: 68
Candidate Starts for Orcanus_26:
(Start: 68 @19951 has 41 MA's),

Gene: Orfeu_44 Start: 38902, Stop: 38687, Start Num: 50
Candidate Starts for Orfeu_44:
(Start: 50 @38902 has 319 MA's), (Start: 68 @38872 has 41 MA's), (81, 38827), (91, 38794),

Gene: Orion_45 Start: 39192, Stop: 38977, Start Num: 50
Candidate Starts for Orion_45:
(20, 39294), (Start: 50 @39192 has 319 MA's), (Start: 68 @39162 has 41 MA's), (81, 39117),

Gene: Orwigg_44 Start: 38890, Stop: 38675, Start Num: 50
Candidate Starts for Orwigg_44:
(Start: 50 @38890 has 319 MA's), (Start: 68 @38860 has 41 MA's), (81, 38815),

Gene: OtsoOtso_26 Start: 18904, Stop: 18683, Start Num: 68
Candidate Starts for OtsoOtso_26:
(Start: 68 @18904 has 41 MA's),

Gene: PG1_45 Start: 39205, Stop: 38990, Start Num: 50
Candidate Starts for PG1_45:
(20, 39307), (Start: 50 @39205 has 319 MA's), (Start: 68 @39175 has 41 MA's), (81, 39130),

Gene: Pacifista_44 Start: 38896, Stop: 38681, Start Num: 50
Candidate Starts for Pacifista_44:
(Start: 50 @38896 has 319 MA's), (Start: 68 @38866 has 41 MA's), (81, 38821), (91, 38788),

Gene: PallasAthena_44 Start: 38907, Stop: 38692, Start Num: 50
Candidate Starts for PallasAthena_44:
(Start: 50 @38907 has 319 MA's), (Start: 68 @38877 has 41 MA's), (81, 38832), (91, 38799),

Gene: PenguinLover67_46 Start: 41013, Stop: 40795, Start Num: 50
Candidate Starts for PenguinLover67_46:
(20, 41109), (Start: 50 @41013 has 319 MA's), (Start: 68 @40980 has 41 MA's), (78, 40953), (81, 40935), (102, 40830),

Gene: Periwinkle_42 Start: 31005, Stop: 30769, Start Num: 45
Candidate Starts for Periwinkle_42:
(Start: 45 @31005 has 39 MA's), (Start: 68 @30963 has 41 MA's), (77, 30942), (86, 30900), (96, 30852),

Gene: Phabuloso_36 Start: 29262, Stop: 29026, Start Num: 45
Candidate Starts for Phabuloso_36:
(Start: 45 @29262 has 39 MA's), (Start: 68 @29220 has 41 MA's), (77, 29199), (86, 29157), (96, 29109),

Gene: Phaedrus_41 Start: 38950, Stop: 38714, Start Num: 42
Candidate Starts for Phaedrus_41:
(Start: 42 @38950 has 63 MA's), (72, 38893), (88, 38827), (91, 38821),

Gene: Phamished_45 Start: 39200, Stop: 38985, Start Num: 50
Candidate Starts for Phamished_45:
(Start: 50 @39200 has 319 MA's), (Start: 68 @39170 has 41 MA's), (81, 39125),

Gene: Phantasmagoria_44 Start: 39441, Stop: 39235, Start Num: 55
Candidate Starts for Phantasmagoria_44:
(Start: 55 @39441 has 35 MA's), (Start: 69 @39414 has 3 MA's), (72, 39411), (87, 39357), (94, 39324),

Gene: Phareon_45 Start: 38904, Stop: 38689, Start Num: 50
Candidate Starts for Phareon_45:
(Start: 50 @38904 has 319 MA's), (Start: 68 @38874 has 41 MA's), (81, 38829), (91, 38796),

Gene: PhatCats2014_45 Start: 39209, Stop: 38994, Start Num: 50
Candidate Starts for PhatCats2014_45:
(20, 39311), (Start: 50 @39209 has 319 MA's), (Start: 68 @39179 has 41 MA's), (81, 39134),

Gene: PhatLouie_45 Start: 39198, Stop: 38983, Start Num: 50
Candidate Starts for PhatLouie_45:
(Start: 50 @39198 has 319 MA's), (Start: 68 @39168 has 41 MA's), (81, 39123),

Gene: Phayeta_44 Start: 38895, Stop: 38659, Start Num: 42
Candidate Starts for Phayeta_44:
(Start: 42 @38895 has 63 MA's), (72, 38838), (88, 38772), (91, 38766),

Gene: Phelemich_43 Start: 39919, Stop: 39710, Start Num: 50
Candidate Starts for Phelemich_43:
(20, 40027), (Start: 50 @39919 has 319 MA's), (Start: 68 @39904 has 41 MA's), (81, 39859),

Gene: PhenghisKhan_44 Start: 38804, Stop: 38589, Start Num: 50
Candidate Starts for PhenghisKhan_44:

(Start: 50 @38804 has 319 MA's), (Start: 68 @38774 has 41 MA's), (81, 38729),

Gene: Pherdinand_45 Start: 39200, Stop: 38985, Start Num: 50
Candidate Starts for Pherdinand_45:
(Start: 50 @39200 has 319 MA's), (Start: 68 @39170 has 41 MA's), (81, 39125), (91, 39092),

Gene: Phergie_44 Start: 38795, Stop: 38580, Start Num: 50
Candidate Starts for Phergie_44:
(Start: 50 @38795 has 319 MA's), (Start: 68 @38765 has 41 MA's), (81, 38720),

Gene: Philly_42 Start: 38881, Stop: 38645, Start Num: 42
Candidate Starts for Philly_42:
(Start: 42 @38881 has 63 MA's), (72, 38824), (88, 38758), (91, 38752),

Gene: Phipps_45 Start: 39171, Stop: 38956, Start Num: 50
Candidate Starts for Phipps_45:
(Start: 50 @39171 has 319 MA's), (Start: 68 @39141 has 41 MA's), (81, 39096),

Gene: Phistory_39 Start: 29860, Stop: 29666, Start Num: 68
Candidate Starts for Phistory_39:
(Start: 45 @29902 has 39 MA's), (Start: 68 @29860 has 41 MA's), (77, 29839), (86, 29797), (96, 29749),

Gene: Phleuron_44 Start: 38801, Stop: 38586, Start Num: 50
Candidate Starts for Phleuron_44:
(Start: 50 @38801 has 319 MA's), (Start: 68 @38771 has 41 MA's), (81, 38726),

Gene: PhluffyCoco_26 Start: 18717, Stop: 18502, Start Num: 68
Candidate Starts for PhluffyCoco_26:
(Start: 68 @18717 has 41 MA's),

Gene: Phlyer_43 Start: 39769, Stop: 39533, Start Num: 42
Candidate Starts for Phlyer_43:
(Start: 42 @39769 has 63 MA's), (72, 39712), (88, 39646), (91, 39640),

Gene: PhrankReynolds_43 Start: 38801, Stop: 38586, Start Num: 50
Candidate Starts for PhrankReynolds_43:
(Start: 50 @38801 has 319 MA's), (Start: 68 @38771 has 41 MA's), (81, 38726),

Gene: PhrodoBaggins_44 Start: 39188, Stop: 38973, Start Num: 50
Candidate Starts for PhrodoBaggins_44:
(20, 39290), (Start: 50 @39188 has 319 MA's), (Start: 68 @39158 has 41 MA's), (81, 39113),

Gene: Phunky_45 Start: 39201, Stop: 38986, Start Num: 50
Candidate Starts for Phunky_45:
(Start: 50 @39201 has 319 MA's), (Start: 68 @39171 has 41 MA's), (81, 39126), (91, 39093),

Gene: Piglet_0044 Start: 39308, Stop: 39093, Start Num: 50
Candidate Starts for Piglet_0044:
(Start: 50 @39308 has 319 MA's), (Start: 68 @39278 has 41 MA's), (81, 39233), (91, 39200),

Gene: Pine5_39 Start: 32324, Stop: 32103, Start Num: 57
Candidate Starts for Pine5_39:

(Start: 57 @32324 has 13 MA's), (74, 32294), (78, 32279), (95, 32210),

Gene: Pineda_28 Start: 19194, Stop: 18973, Start Num: 68
Candidate Starts for Pineda_28:
(Start: 68 @19194 has 41 MA's),

Gene: PinheadLarry_45 Start: 38914, Stop: 38699, Start Num: 50
Candidate Starts for PinheadLarry_45:
(Start: 50 @38914 has 319 MA's), (Start: 68 @38884 has 41 MA's), (81, 38839), (91, 38806),

Gene: Pinkman_44 Start: 38757, Stop: 38542, Start Num: 50
Candidate Starts for Pinkman_44:
(Start: 50 @38757 has 319 MA's), (Start: 68 @38727 has 41 MA's), (81, 38682), (91, 38649),

Gene: Pipefish_45 Start: 40422, Stop: 40186, Start Num: 42
Candidate Starts for Pipefish_45:
(Start: 42 @40422 has 63 MA's), (72, 40365), (88, 40299), (91, 40293),

Gene: Pipsqueak_45 Start: 39199, Stop: 38984, Start Num: 50
Candidate Starts for Pipsqueak_45:
(Start: 50 @39199 has 319 MA's), (Start: 68 @39169 has 41 MA's), (81, 39124),

Gene: Placalicious_44 Start: 38892, Stop: 38677, Start Num: 50
Candidate Starts for Placalicious_44:
(Start: 50 @38892 has 319 MA's), (Start: 68 @38862 has 41 MA's), (81, 38817),

Gene: Plata_44 Start: 38913, Stop: 38698, Start Num: 50
Candidate Starts for Plata_44:
(20, 39015), (Start: 50 @38913 has 319 MA's), (Start: 68 @38883 has 41 MA's), (81, 38838),

Gene: Plmatters_45 Start: 39198, Stop: 38983, Start Num: 50
Candidate Starts for Plmatters_45:
(20, 39300), (Start: 50 @39198 has 319 MA's), (Start: 68 @39168 has 41 MA's), (81, 39123), (91, 39090),

Gene: Podrick_45 Start: 39189, Stop: 38974, Start Num: 50
Candidate Starts for Podrick_45:
(20, 39291), (Start: 50 @39189 has 319 MA's), (Start: 68 @39159 has 41 MA's), (81, 39114),

Gene: Polka_26 Start: 18904, Stop: 18683, Start Num: 68
Candidate Starts for Polka_26:
(Start: 68 @18904 has 41 MA's),

Gene: Polly_32 Start: 28797, Stop: 28561, Start Num: 45
Candidate Starts for Polly_32:
(Start: 45 @28797 has 39 MA's), (Start: 68 @28755 has 41 MA's), (77, 28734), (86, 28692), (96, 28644), (105, 28572),

Gene: Pollywog_25 Start: 25545, Stop: 25366, Start Num: 63
Candidate Starts for Pollywog_25:
(Start: 49 @25569 has 1 MA's), (Start: 63 @25545 has 10 MA's), (Start: 66 @25539 has 2 MA's), (76, 25512), (83, 25479), (101, 25383),

Gene: Pops_45 Start: 39213, Stop: 38998, Start Num: 50
Candidate Starts for Pops_45:
(20, 39315), (Start: 50 @39213 has 319 MA's), (Start: 68 @39183 has 41 MA's), (81, 39138), (91, 39105),

Gene: Poster_39 Start: 38171, Stop: 37965, Start Num: 52
Candidate Starts for Poster_39:
(Start: 52 @38171 has 29 MA's), (Start: 68 @38150 has 41 MA's), (78, 38123), (81, 38105), (87, 38087), (93, 38057), (95, 38051), (98, 38030),

Gene: Potter_44 Start: 38913, Stop: 38698, Start Num: 50
Candidate Starts for Potter_44:
(20, 39015), (Start: 50 @38913 has 319 MA's), (Start: 68 @38883 has 41 MA's), (81, 38838),

Gene: Prickles_45 Start: 39189, Stop: 38974, Start Num: 50
Candidate Starts for Prickles_45:
(Start: 50 @39189 has 319 MA's), (Start: 68 @39159 has 41 MA's), (81, 39114),

Gene: Prince_40 Start: 39354, Stop: 39148, Start Num: 52
Candidate Starts for Prince_40:
(Start: 52 @39354 has 29 MA's), (Start: 68 @39333 has 41 MA's), (78, 39306), (81, 39288), (87, 39270), (93, 39240), (95, 39234),

Gene: PrinceCharming_44 Start: 39549, Stop: 39343, Start Num: 55
Candidate Starts for PrinceCharming_44:
(Start: 55 @39549 has 35 MA's), (Start: 69 @39522 has 3 MA's), (72, 39519), (87, 39465), (94, 39432),

Gene: ProfessorX_45 Start: 39184, Stop: 38969, Start Num: 50
Candidate Starts for ProfessorX_45:
(20, 39286), (Start: 50 @39184 has 319 MA's), (Start: 68 @39154 has 41 MA's), (81, 39109),

Gene: Puhltonio_45 Start: 39205, Stop: 38990, Start Num: 50
Candidate Starts for Puhltonio_45:
(Start: 50 @39205 has 319 MA's), (Start: 68 @39175 has 41 MA's), (81, 39130), (91, 39097),

Gene: Purky_30 Start: 26584, Stop: 26351, Start Num: 47
Candidate Starts for Purky_30:
(22, 26659), (Start: 23 @26656 has 1 MA's), (25, 26650), (43, 26593), (Start: 47 @26584 has 5 MA's), (60, 26560), (79, 26512), (96, 26434), (99, 26419),

Gene: Purky_36 Start: 28450, Stop: 28653, Start Num: 49
Candidate Starts for Purky_36:
(Start: 49 @28450 has 1 MA's), (56, 28462), (Start: 66 @28480 has 2 MA's), (94, 28588), (97, 28600),

Gene: QueenBeane_45 Start: 39195, Stop: 38980, Start Num: 50
Candidate Starts for QueenBeane_45:
(Start: 50 @39195 has 319 MA's), (Start: 68 @39165 has 41 MA's), (81, 39120), (91, 39087),

Gene: QueenPie_39 Start: 39295, Stop: 39089, Start Num: 52
Candidate Starts for QueenPie_39:
(Start: 52 @39295 has 29 MA's), (Start: 68 @39274 has 41 MA's), (78, 39247), (81, 39229), (87, 39211), (93, 39181), (95, 39175),

Gene: Quesadilla_46 Start: 40987, Stop: 40781, Start Num: 50
Candidate Starts for Quesadilla_46:
(20, 41086), (Start: 50 @40987 has 319 MA's), (Start: 68 @40966 has 41 MA's), (81, 40921), (85, 40912),

Gene: Quisquiliae_45 Start: 39223, Stop: 39008, Start Num: 50
Candidate Starts for Quisquiliae_45:
(20, 39325), (Start: 50 @39223 has 319 MA's), (Start: 68 @39193 has 41 MA's), (81, 39148),

Gene: Qyrzula_41 Start: 39560, Stop: 39381, Start Num: 69
Candidate Starts for Qyrzula_41:
(Start: 55 @39587 has 35 MA's), (Start: 69 @39560 has 3 MA's), (72, 39557), (87, 39503), (94, 39470),

Gene: RagingRooster_43 Start: 39031, Stop: 38795, Start Num: 42
Candidate Starts for RagingRooster_43:
(Start: 42 @39031 has 63 MA's), (72, 38974), (88, 38908), (91, 38902),

Gene: RavenCo17_36 Start: 30180, Stop: 29944, Start Num: 45
Candidate Starts for RavenCo17_36:
(Start: 45 @30180 has 39 MA's), (Start: 68 @30138 has 41 MA's), (77, 30117), (86, 30075), (96, 30027),

Gene: RawrgerThat_41 Start: 39199, Stop: 38993, Start Num: 52
Candidate Starts for RawrgerThat_41:
(Start: 52 @39199 has 29 MA's), (Start: 68 @39178 has 41 MA's), (78, 39151), (81, 39133), (87, 39115), (93, 39085), (95, 39079),

Gene: RayTheFireFly_38 Start: 29870, Stop: 29667, Start Num: 65
Candidate Starts for RayTheFireFly_38:
(Start: 45 @29903 has 39 MA's), (Start: 65 @29870 has 2 MA's), (77, 29840), (84, 29807), (86, 29798), (96, 29750),

Gene: Reccee_44 Start: 39831, Stop: 39622, Start Num: 50
Candidate Starts for Reccee_44:
(18, 39945), (20, 39939), (Start: 50 @39831 has 319 MA's), (Start: 68 @39816 has 41 MA's), (74, 39804), (81, 39771),

Gene: RedFox_26 Start: 18732, Stop: 18517, Start Num: 68
Candidate Starts for RedFox_26:
(Start: 68 @18732 has 41 MA's),

Gene: RedMaple_44 Start: 39202, Stop: 38987, Start Num: 50
Candidate Starts for RedMaple_44:
(Start: 50 @39202 has 319 MA's), (Start: 68 @39172 has 41 MA's), (81, 39127), (91, 39094),

Gene: RedRaider89_46 Start: 39422, Stop: 39207, Start Num: 50
Candidate Starts for RedRaider89_46:
(Start: 50 @39422 has 319 MA's), (Start: 68 @39392 has 41 MA's), (81, 39347), (91, 39314),

Gene: Rem711_6 Start: 3521, Stop: 3279, Start Num: 45
Candidate Starts for Rem711_6:
(11, 3722), (24, 3584), (Start: 45 @3521 has 39 MA's), (79, 3443), (86, 3413), (89, 3398), (92, 3380),

Gene: Renkei_39 Start: 38205, Stop: 37999, Start Num: 52
Candidate Starts for Renkei_39:
(Start: 52 @38205 has 29 MA's), (Start: 68 @38184 has 41 MA's), (78, 38157), (81, 38139), (87, 38121), (93, 38091), (95, 38085), (98, 38064),

Gene: Reprobate_44 Start: 39924, Stop: 39715, Start Num: 50
Candidate Starts for Reprobate_44:
(20, 40032), (Start: 50 @39924 has 319 MA's), (Start: 68 @39909 has 41 MA's), (81, 39864),

Gene: Rhinoforte_44 Start: 39550, Stop: 39344, Start Num: 55
Candidate Starts for Rhinoforte_44:
(Start: 55 @39550 has 35 MA's), (Start: 69 @39523 has 3 MA's), (72, 39520), (87, 39466), (94, 39433),

Gene: Rich_42 Start: 39520, Stop: 39311, Start Num: 50
Candidate Starts for Rich_42:
(Start: 50 @39520 has 319 MA's), (Start: 68 @39505 has 41 MA's), (74, 39493), (81, 39460), (91, 39427),

Gene: Ricotta_44 Start: 38921, Stop: 38706, Start Num: 50
Candidate Starts for Ricotta_44:
(Start: 50 @38921 has 319 MA's), (Start: 68 @38891 has 41 MA's), (81, 38846), (91, 38813),

Gene: Riggan_45 Start: 39182, Stop: 38967, Start Num: 50
Candidate Starts for Riggan_45:
(Start: 50 @39182 has 319 MA's), (Start: 68 @39152 has 41 MA's), (81, 39107),

Gene: Rimu_45 Start: 38931, Stop: 38716, Start Num: 50
Candidate Starts for Rimu_45:
(Start: 50 @38931 has 319 MA's), (Start: 68 @38901 has 41 MA's), (81, 38856), (91, 38823),

Gene: Rinkes_44 Start: 40426, Stop: 40223, Start Num: 55
Candidate Starts for Rinkes_44:
(Start: 55 @40426 has 35 MA's), (81, 40363),

Gene: Rita130_44 Start: 39651, Stop: 39442, Start Num: 50
Candidate Starts for Rita130_44:
(18, 39765), (20, 39759), (Start: 50 @39651 has 319 MA's), (Start: 68 @39636 has 41 MA's), (74, 39624), (81, 39591),

Gene: Rita1961_43 Start: 39014, Stop: 38778, Start Num: 42
Candidate Starts for Rita1961_43:
(Start: 42 @39014 has 63 MA's), (72, 38957), (88, 38891), (91, 38885),

Gene: Riverton_45 Start: 39203, Stop: 38988, Start Num: 50
Candidate Starts for Riverton_45:
(Start: 50 @39203 has 319 MA's), (Start: 68 @39173 has 41 MA's), (81, 39128), (91, 39095),

Gene: Robyn_44 Start: 38766, Stop: 38551, Start Num: 50
Candidate Starts for Robyn_44:
(20, 38868), (Start: 50 @38766 has 319 MA's), (Start: 68 @38736 has 41 MA's), (81, 38691),

Gene: Roliet_45 Start: 39191, Stop: 38976, Start Num: 50
Candidate Starts for Roliet_45:

(Start: 50 @39191 has 319 MA's), (Start: 68 @39161 has 41 MA's), (81, 39116),

Gene: RomaT_43 Start: 39804, Stop: 39568, Start Num: 42
Candidate Starts for RomaT_43:
(Start: 42 @39804 has 63 MA's), (72, 39747), (88, 39681), (91, 39675),

Gene: Roscoe_46 Start: 39429, Stop: 39214, Start Num: 50
Candidate Starts for Roscoe_46:
(20, 39531), (Start: 50 @39429 has 319 MA's), (Start: 68 @39399 has 41 MA's), (81, 39354),

Gene: Rosebush_43 Start: 39530, Stop: 39351, Start Num: 69
Candidate Starts for Rosebush_43:
(Start: 55 @39557 has 35 MA's), (Start: 69 @39530 has 3 MA's), (72, 39527), (87, 39473), (94, 39440),

Gene: Roy17_45 Start: 38895, Stop: 38680, Start Num: 50
Candidate Starts for Roy17_45:
(Start: 50 @38895 has 319 MA's), (Start: 68 @38865 has 41 MA's), (81, 38820), (91, 38787),

Gene: Rubeelu_32 Start: 26751, Stop: 26518, Start Num: 47
Candidate Starts for Rubeelu_32:
(22, 26826), (Start: 23 @26823 has 1 MA's), (25, 26817), (43, 26760), (Start: 47 @26751 has 5 MA's),
(60, 26727), (79, 26679), (96, 26601), (105, 26529),

Gene: SDcharge11_45 Start: 39169, Stop: 38954, Start Num: 50
Candidate Starts for SDcharge11_45:
(20, 39271), (Start: 50 @39169 has 319 MA's), (Start: 68 @39139 has 41 MA's), (81, 39094),

Gene: Sabella_43 Start: 39434, Stop: 39228, Start Num: 55
Candidate Starts for Sabella_43:
(Start: 55 @39434 has 35 MA's), (Start: 69 @39407 has 3 MA's), (72, 39404), (87, 39350), (94, 39317),

Gene: Saguaro_45 Start: 40648, Stop: 40445, Start Num: 50
Candidate Starts for Saguaro_45:
(17, 40756), (Start: 50 @40648 has 319 MA's), (81, 40585), (85, 40576), (93, 40537),

Gene: Sahara_29 Start: 25333, Stop: 25133, Start Num: 57
Candidate Starts for Sahara_29:
(Start: 57 @25333 has 13 MA's), (74, 25312), (78, 25297), (80, 25285), (91, 25249),

Gene: Salazzle_45 Start: 38768, Stop: 38553, Start Num: 50
Candidate Starts for Salazzle_45:
(Start: 50 @38768 has 319 MA's), (Start: 68 @38738 has 41 MA's), (81, 38693), (91, 38660),

Gene: SallyH_45 Start: 39205, Stop: 38990, Start Num: 50
Candidate Starts for SallyH_45:
(Start: 50 @39205 has 319 MA's), (Start: 68 @39175 has 41 MA's), (81, 39130), (91, 39097),

Gene: Samaymay_45 Start: 39195, Stop: 38980, Start Num: 50
Candidate Starts for Samaymay_45:
(Start: 50 @39195 has 319 MA's), (Start: 68 @39165 has 41 MA's), (81, 39120), (91, 39087),

Gene: SassyCat97_44 Start: 38901, Stop: 38686, Start Num: 50
Candidate Starts for SassyCat97_44:

(20, 39003), (Start: 50 @38901 has 319 MA's), (Start: 68 @38871 has 41 MA's), (81, 38826),

Gene: Savage_30 Start: 25663, Stop: 25463, Start Num: 57
Candidate Starts for Savage_30:
(Start: 57 @25663 has 13 MA's), (74, 25642), (78, 25627), (80, 25615), (91, 25579),

Gene: Sbash_32 Start: 28849, Stop: 28601, Start Num: 47
Candidate Starts for Sbash_32:
(22, 28924), (Start: 23 @28921 has 1 MA's), (25, 28915), (43, 28858), (Start: 47 @28849 has 5 MA's), (60, 28825), (96, 28699), (99, 28684), (106, 28609),

Gene: Schadenfreude_44 Start: 38752, Stop: 38537, Start Num: 50
Candidate Starts for Schadenfreude_44:
(20, 38854), (Start: 50 @38752 has 319 MA's), (Start: 68 @38722 has 41 MA's), (81, 38677),

Gene: Schueller_44 Start: 38914, Stop: 38699, Start Num: 50
Candidate Starts for Schueller_44:
(Start: 50 @38914 has 319 MA's), (Start: 68 @38884 has 41 MA's), (81, 38839),

Gene: Scoot17C_45 Start: 39194, Stop: 38979, Start Num: 50
Candidate Starts for Scoot17C_45:
(20, 39296), (Start: 50 @39194 has 319 MA's), (Start: 68 @39164 has 41 MA's), (81, 39119),

Gene: Scrick_45 Start: 38919, Stop: 38704, Start Num: 50
Candidate Starts for Scrick_45:
(20, 39021), (Start: 50 @38919 has 319 MA's), (Start: 68 @38889 has 41 MA's), (81, 38844),

Gene: Selr12_45 Start: 38922, Stop: 38707, Start Num: 50
Candidate Starts for Selr12_45:
(20, 39024), (Start: 50 @38922 has 319 MA's), (Start: 68 @38892 has 41 MA's), (81, 38847),

Gene: Septica_44 Start: 39205, Stop: 38990, Start Num: 50
Candidate Starts for Septica_44:
(Start: 50 @39205 has 319 MA's), (Start: 68 @39175 has 41 MA's), (81, 39130),

Gene: Serendipitous_43 Start: 39478, Stop: 39269, Start Num: 50
Candidate Starts for Serendipitous_43:
(Start: 50 @39478 has 319 MA's), (Start: 68 @39463 has 41 MA's), (81, 39418),

Gene: Serendipity_45 Start: 39219, Stop: 39004, Start Num: 50
Candidate Starts for Serendipity_45:
(Start: 50 @39219 has 319 MA's), (Start: 68 @39189 has 41 MA's), (81, 39144), (91, 39111),

Gene: Serpentine_0045 Start: 39200, Stop: 38985, Start Num: 50
Candidate Starts for Serpentine_0045:
(Start: 50 @39200 has 319 MA's), (Start: 68 @39170 has 41 MA's), (81, 39125), (91, 39092),

Gene: ShadowBud_45 Start: 39220, Stop: 39005, Start Num: 50
Candidate Starts for ShadowBud_45:
(20, 39322), (Start: 50 @39220 has 319 MA's), (Start: 68 @39190 has 41 MA's), (81, 39145),

Gene: Shambre1_30 Start: 22778, Stop: 22578, Start Num: 59
Candidate Starts for Shambre1_30:

(Start: 59 @22778 has 3 MA's), (104, 22595),

Gene: Shatter_38 Start: 32837, Stop: 32601, Start Num: 38
Candidate Starts for Shatter_38:
(37, 32840), (Start: 38 @32837 has 5 MA's), (Start: 47 @32816 has 5 MA's), (51, 32810), (67, 32786), (72, 32780), (94, 32690),

Gene: ShawBrad_38 Start: 29124, Stop: 28888, Start Num: 45
Candidate Starts for ShawBrad_38:
(Start: 45 @29124 has 39 MA's), (Start: 68 @29082 has 41 MA's), (77, 29061), (86, 29019), (96, 28971),

Gene: Sheila_45 Start: 39237, Stop: 39022, Start Num: 50
Candidate Starts for Sheila_45:
(Start: 50 @39237 has 319 MA's), (Start: 68 @39207 has 41 MA's), (81, 39162), (91, 39129),

Gene: Shenandoah_43 Start: 39003, Stop: 38767, Start Num: 42
Candidate Starts for Shenandoah_43:
(Start: 42 @39003 has 63 MA's), (72, 38946), (88, 38880), (91, 38874),

Gene: Shenyu_43 Start: 39713, Stop: 39504, Start Num: 50
Candidate Starts for Shenyu_43:
(20, 39821), (Start: 50 @39713 has 319 MA's), (Start: 68 @39698 has 41 MA's), (74, 39686),

Gene: ShiVal_45 Start: 39193, Stop: 38978, Start Num: 50
Candidate Starts for ShiVal_45:
(20, 39295), (Start: 50 @39193 has 319 MA's), (Start: 68 @39163 has 41 MA's), (81, 39118),

Gene: ShroomBoi_22 Start: 24354, Stop: 24175, Start Num: 63
Candidate Starts for ShroomBoi_22:
(Start: 49 @24378 has 1 MA's), (Start: 63 @24354 has 10 MA's), (Start: 66 @24348 has 2 MA's), (70, 24336), (76, 24321), (83, 24288), (101, 24192),

Gene: Sigman_45 Start: 39185, Stop: 38970, Start Num: 50
Candidate Starts for Sigman_45:
(Start: 50 @39185 has 319 MA's), (Start: 68 @39155 has 41 MA's), (81, 39110), (91, 39077),

Gene: SilverBell_45 Start: 39215, Stop: 39000, Start Num: 50
Candidate Starts for SilverBell_45:
(Start: 50 @39215 has 319 MA's), (Start: 68 @39185 has 41 MA's), (81, 39140),

Gene: Simielle_44 Start: 38888, Stop: 38673, Start Num: 50
Candidate Starts for Simielle_44:
(Start: 50 @38888 has 319 MA's), (Start: 68 @38858 has 41 MA's), (81, 38813), (91, 38780),

Gene: SirBeauregard_45 Start: 38892, Stop: 38677, Start Num: 50
Candidate Starts for SirBeauregard_45:
(20, 38994), (Start: 50 @38892 has 319 MA's), (Start: 68 @38862 has 41 MA's), (81, 38817),

Gene: SirJeffery_44 Start: 39650, Stop: 39441, Start Num: 50
Candidate Starts for SirJeffery_44:
(18, 39764), (20, 39758), (Start: 50 @39650 has 319 MA's), (Start: 68 @39635 has 41 MA's), (74, 39623), (81, 39590),

Gene: Sisko_38 Start: 33610, Stop: 33383, Start Num: 40
Candidate Starts for Sisko_38:
(Start: 40 @33610 has 5 MA's), (90, 33493), (101, 33424),

Gene: Skippy_45 Start: 39183, Stop: 38968, Start Num: 50
Candidate Starts for Skippy_45:
(20, 39285), (Start: 50 @39183 has 319 MA's), (Start: 68 @39153 has 41 MA's), (81, 39108),

Gene: Slatt_45 Start: 39209, Stop: 38994, Start Num: 50
Candidate Starts for Slatt_45:
(Start: 50 @39209 has 319 MA's), (Start: 68 @39179 has 41 MA's), (81, 39134),

Gene: Sleepyhead_33 Start: 26741, Stop: 26493, Start Num: 45
Candidate Starts for Sleepyhead_33:
(27, 26798), (Start: 45 @26741 has 39 MA's), (54, 26723), (82, 26651), (86, 26636),

Gene: SlippinJimmy_43 Start: 39796, Stop: 39560, Start Num: 42
Candidate Starts for SlippinJimmy_43:
(Start: 42 @39796 has 63 MA's), (72, 39739), (88, 39673), (91, 39667),

Gene: Soile_45 Start: 38912, Stop: 38697, Start Num: 50
Candidate Starts for Soile_45:
(Start: 50 @38912 has 319 MA's), (Start: 68 @38882 has 41 MA's), (81, 38837), (91, 38804),

Gene: Solosis_44 Start: 38910, Stop: 38695, Start Num: 50
Candidate Starts for Solosis_44:
(Start: 50 @38910 has 319 MA's), (Start: 68 @38880 has 41 MA's), (81, 38835), (91, 38802),

Gene: Sophia_44 Start: 38910, Stop: 38695, Start Num: 50
Candidate Starts for Sophia_44:
(Start: 50 @38910 has 319 MA's), (Start: 68 @38880 has 41 MA's), (81, 38835),

Gene: Soto_45 Start: 39203, Stop: 38988, Start Num: 50
Candidate Starts for Soto_45:
(Start: 50 @39203 has 319 MA's), (Start: 68 @39173 has 41 MA's), (81, 39128),

Gene: Sour_43 Start: 37566, Stop: 37306, Start Num: 42
Candidate Starts for Sour_43:
(Start: 42 @37566 has 63 MA's), (72, 37515),

Gene: Spartan300_45 Start: 39189, Stop: 38974, Start Num: 50
Candidate Starts for Spartan300_45:
(20, 39291), (Start: 50 @39189 has 319 MA's), (Start: 68 @39159 has 41 MA's), (81, 39114),

Gene: Spooky_39 Start: 29741, Stop: 29508, Start Num: 59
Candidate Starts for Spooky_39:
(34, 29801), (44, 29771), (Start: 59 @29741 has 3 MA's), (60, 29738), (Start: 68 @29723 has 41 MA's), (102, 29549), (103, 29543),

Gene: Sproutie_30 Start: 25663, Stop: 25463, Start Num: 57
Candidate Starts for Sproutie_30:
(Start: 57 @25663 has 13 MA's), (74, 25642), (78, 25627), (80, 25615), (91, 25579),

Gene: Squid_45 Start: 38901, Stop: 38686, Start Num: 50
Candidate Starts for Squid_45:
(20, 39003), (Start: 50 @38901 has 319 MA's), (Start: 68 @38871 has 41 MA's), (81, 38826),

Gene: Squiddly_40 Start: 31125, Stop: 30892, Start Num: 59
Candidate Starts for Squiddly_40:
(34, 31185), (44, 31155), (Start: 59 @31125 has 3 MA's), (60, 31122), (Start: 68 @31107 has 41 MA's), (102, 30933), (103, 30927),

Gene: Squiggle_45 Start: 38913, Stop: 38698, Start Num: 50
Candidate Starts for Squiggle_45:
(20, 39015), (Start: 50 @38913 has 319 MA's), (Start: 68 @38883 has 41 MA's), (81, 38838),

Gene: StAugustine_56 Start: 47843, Stop: 47547, Start Num: 26
Candidate Starts for StAugustine_56:
(4, 48254), (5, 48245), (7, 48053), (14, 47951), (16, 47930), (Start: 21 @47870 has 1 MA's), (Start: 23 @47852 has 1 MA's), (Start: 26 @47843 has 1 MA's), (33, 47813), (36, 47801),

Gene: Stinger_39 Start: 37776, Stop: 37570, Start Num: 52
Candidate Starts for Stinger_39:
(Start: 52 @37776 has 29 MA's), (Start: 68 @37755 has 41 MA's), (72, 37749), (78, 37728), (81, 37710), (87, 37692), (93, 37662), (94, 37659), (95, 37656),

Gene: StinkyVeggy_45 Start: 39790, Stop: 39581, Start Num: 50
Candidate Starts for StinkyVeggy_45:
(20, 39898), (Start: 50 @39790 has 319 MA's), (Start: 68 @39775 has 41 MA's), (74, 39763),

Gene: Struggle_44 Start: 38751, Stop: 38536, Start Num: 50
Candidate Starts for Struggle_44:
(20, 38853), (Start: 50 @38751 has 319 MA's), (Start: 68 @38721 has 41 MA's), (81, 38676),

Gene: StuartMinion_24 Start: 18429, Stop: 18103, Start Num: 21
Candidate Starts for StuartMinion_24:
(13, 18519), (19, 18441), (Start: 21 @18429 has 1 MA's), (61, 18306), (Start: 68 @18294 has 41 MA's),

Gene: Stuck_36 Start: 31182, Stop: 30949, Start Num: 47
Candidate Starts for Stuck_36:
(22, 31257), (Start: 23 @31254 has 1 MA's), (25, 31248), (43, 31191), (Start: 47 @31182 has 5 MA's), (60, 31158), (79, 31110), (96, 31032),

Gene: Suffolk_45 Start: 39200, Stop: 38985, Start Num: 50
Candidate Starts for Suffolk_45:
(Start: 50 @39200 has 319 MA's), (Start: 68 @39170 has 41 MA's), (81, 39125),

Gene: Suigeneris_44 Start: 39653, Stop: 39444, Start Num: 50
Candidate Starts for Suigeneris_44:
(18, 39767), (20, 39761), (Start: 50 @39653 has 319 MA's), (Start: 68 @39638 has 41 MA's), (74, 39626), (81, 39593),

Gene: Surely_45 Start: 39203, Stop: 38988, Start Num: 50
Candidate Starts for Surely_45:
(Start: 50 @39203 has 319 MA's), (Start: 68 @39173 has 41 MA's), (81, 39128),

Gene: Suscepit_35 Start: 29355, Stop: 29119, Start Num: 45
Candidate Starts for Suscepit_35:
(Start: 45 @29355 has 39 MA's), (Start: 68 @29313 has 41 MA's), (77, 29292), (86, 29250), (96, 29202), (105, 29130),

Gene: SwainyDoc_43 Start: 39025, Stop: 38789, Start Num: 42
Candidate Starts for SwainyDoc_43:
(Start: 42 @39025 has 63 MA's), (72, 38968), (88, 38902), (91, 38896),

Gene: Swiphy_45 Start: 39198, Stop: 38983, Start Num: 50
Candidate Starts for Swiphy_45:
(Start: 50 @39198 has 319 MA's), (Start: 68 @39168 has 41 MA's), (81, 39123),

Gene: Swish_45 Start: 39186, Stop: 38971, Start Num: 50
Candidate Starts for Swish_45:
(Start: 50 @39186 has 319 MA's), (Start: 68 @39156 has 41 MA's), (81, 39111), (91, 39078),

Gene: SynergyX_43 Start: 39031, Stop: 38795, Start Num: 42
Candidate Starts for SynergyX_43:
(Start: 42 @39031 has 63 MA's), (72, 38974), (88, 38908), (91, 38902),

Gene: TA17A_45 Start: 39424, Stop: 39218, Start Num: 55
Candidate Starts for TA17A_45:
(Start: 55 @39424 has 35 MA's), (Start: 69 @39397 has 3 MA's), (72, 39394), (87, 39340), (94, 39307),

Gene: TallGrassMM_45 Start: 38825, Stop: 38610, Start Num: 50
Candidate Starts for TallGrassMM_45:
(Start: 50 @38825 has 319 MA's), (Start: 68 @38795 has 41 MA's), (81, 38750), (91, 38717),

Gene: Taraxa_45 Start: 38401, Stop: 38186, Start Num: 50
Candidate Starts for Taraxa_45:
(Start: 50 @38401 has 319 MA's), (Start: 68 @38371 has 41 MA's), (81, 38326), (91, 38293),

Gene: TaylorSipht_26 Start: 18969, Stop: 18775, Start Num: 68
Candidate Starts for TaylorSipht_26:
(Start: 68 @18969 has 41 MA's),

Gene: Tayonia_35 Start: 29354, Stop: 29118, Start Num: 45
Candidate Starts for Tayonia_35:
(Start: 45 @29354 has 39 MA's), (Start: 68 @29312 has 41 MA's), (77, 29291), (86, 29249), (96, 29201), (105, 29129),

Gene: Telesworld_44 Start: 38898, Stop: 38683, Start Num: 50
Candidate Starts for Telesworld_44:
(Start: 50 @38898 has 319 MA's), (Start: 68 @38868 has 41 MA's), (81, 38823), (91, 38790),

Gene: ThetaBob_24 Start: 24665, Stop: 24492, Start Num: 66
Candidate Starts for ThetaBob_24:
(Start: 49 @24695 has 1 MA's), (Start: 63 @24671 has 10 MA's), (Start: 66 @24665 has 2 MA's), (76, 24638), (83, 24605), (101, 24509),

Gene: Thonko_43 Start: 36961, Stop: 36752, Start Num: 48

Candidate Starts for Thonko_43:
(15, 37108), (20, 37054), (Start: 48 @36961 has 1 MA's), (74, 36931), (91, 36865),

Gene: Thora_45 Start: 39202, Stop: 38987, Start Num: 50
Candidate Starts for Thora_45:
(Start: 50 @39202 has 319 MA's), (Start: 68 @39172 has 41 MA's), (81, 39127),

Gene: ThreeOh3D2_45 Start: 39200, Stop: 38985, Start Num: 50
Candidate Starts for ThreeOh3D2_45:
(20, 39302), (Start: 50 @39200 has 319 MA's), (Start: 68 @39170 has 41 MA's), (81, 39125),

Gene: Thunderbird_44 Start: 38906, Stop: 38691, Start Num: 50
Candidate Starts for Thunderbird_44:
(20, 39008), (Start: 50 @38906 has 319 MA's), (Start: 68 @38876 has 41 MA's), (81, 38831),

Gene: TimTam_34 Start: 29521, Stop: 29285, Start Num: 45
Candidate Starts for TimTam_34:
(Start: 45 @29521 has 39 MA's), (Start: 68 @29479 has 41 MA's), (86, 29416), (96, 29368), (98, 29356),

Gene: Timmi_44 Start: 38911, Stop: 38696, Start Num: 50
Candidate Starts for Timmi_44:
(Start: 50 @38911 has 319 MA's), (Start: 68 @38881 has 41 MA's), (81, 38836), (91, 38803),

Gene: Tinciduntsolum_45 Start: 39562, Stop: 39356, Start Num: 55
Candidate Starts for Tinciduntsolum_45:
(Start: 55 @39562 has 35 MA's), (Start: 69 @39535 has 3 MA's), (72, 39532), (87, 39478), (94, 39445),

Gene: TinyTerror_43 Start: 39016, Stop: 38780, Start Num: 42
Candidate Starts for TinyTerror_43:
(Start: 42 @39016 has 63 MA's), (72, 38959), (88, 38893), (91, 38887),

Gene: Toad24_27 Start: 20160, Stop: 19957, Start Num: 68
Candidate Starts for Toad24_27:
(Start: 68 @20160 has 41 MA's),

Gene: TomBombadil_45 Start: 39196, Stop: 38981, Start Num: 50
Candidate Starts for TomBombadil_45:
(20, 39298), (Start: 50 @39196 has 319 MA's), (Start: 68 @39166 has 41 MA's), (81, 39121),

Gene: Tomlarah_45 Start: 39187, Stop: 38972, Start Num: 50
Candidate Starts for Tomlarah_45:
(20, 39289), (Start: 50 @39187 has 319 MA's), (Start: 68 @39157 has 41 MA's), (81, 39112),

Gene: Toni_44 Start: 38903, Stop: 38688, Start Num: 50
Candidate Starts for Toni_44:
(Start: 50 @38903 has 319 MA's), (Start: 68 @38873 has 41 MA's), (81, 38828), (91, 38795),

Gene: TooFast2Furius_46 Start: 39432, Stop: 39217, Start Num: 50
Candidate Starts for TooFast2Furius_46:
(20, 39534), (Start: 50 @39432 has 319 MA's), (Start: 68 @39402 has 41 MA's), (81, 39357),

Gene: Tooj_45 Start: 39260, Stop: 39045, Start Num: 50

Candidate Starts for Tooj_45:
(Start: 50 @39260 has 319 MA's), (Start: 68 @39230 has 41 MA's), (81, 39185),

Gene: TraderJ_40 Start: 34851, Stop: 34585, Start Num: 42
Candidate Starts for TraderJ_40:
(28, 34896), (29, 34887), (Start: 42 @34851 has 63 MA's), (Start: 68 @34803 has 41 MA's), (Start: 69 @34800 has 3 MA's), (74, 34791), (88, 34731), (95, 34704),

Gene: Tres_44 Start: 39437, Stop: 39231, Start Num: 55
Candidate Starts for Tres_44:
(Start: 55 @39437 has 35 MA's), (Start: 69 @39410 has 3 MA's), (72, 39407), (87, 39353), (94, 39320),

Gene: Triad_45 Start: 38064, Stop: 37849, Start Num: 50
Candidate Starts for Triad_45:
(Start: 50 @38064 has 319 MA's), (Start: 68 @38034 has 41 MA's), (81, 37989), (91, 37956),

Gene: True_44 Start: 38900, Stop: 38685, Start Num: 50
Candidate Starts for True_44:
(20, 39002), (Start: 50 @38900 has 319 MA's), (Start: 68 @38870 has 41 MA's), (81, 38825),

Gene: Trumpet_35 Start: 29355, Stop: 29119, Start Num: 45
Candidate Starts for Trumpet_35:
(Start: 45 @29355 has 39 MA's), (Start: 68 @29313 has 41 MA's), (77, 29292), (86, 29250), (96, 29202), (105, 29130),

Gene: Trypo_45 Start: 39196, Stop: 38981, Start Num: 50
Candidate Starts for Trypo_45:
(20, 39298), (Start: 50 @39196 has 319 MA's), (Start: 68 @39166 has 41 MA's), (81, 39121),

Gene: TuertoX_30 Start: 25663, Stop: 25463, Start Num: 57
Candidate Starts for TuertoX_30:
(Start: 57 @25663 has 13 MA's), (74, 25642), (78, 25627), (80, 25615), (91, 25579),

Gene: Tydolla_43 Start: 39765, Stop: 39529, Start Num: 42
Candidate Starts for Tydolla_43:
(Start: 42 @39765 has 63 MA's), (72, 39708), (88, 39642), (91, 39636),

Gene: TyrionL_44 Start: 38759, Stop: 38544, Start Num: 50
Candidate Starts for TyrionL_44:
(Start: 50 @38759 has 319 MA's), (Start: 68 @38729 has 41 MA's), (81, 38684), (91, 38651),

Gene: UAch1_45 Start: 39209, Stop: 38994, Start Num: 50
Candidate Starts for UAch1_45:
(Start: 50 @39209 has 319 MA's), (Start: 68 @39179 has 41 MA's), (81, 39134),

Gene: UncleHowie_45 Start: 38899, Stop: 38684, Start Num: 50
Candidate Starts for UncleHowie_45:
(20, 39001), (Start: 50 @38899 has 319 MA's), (Start: 68 @38869 has 41 MA's), (81, 38824), (91, 38791),

Gene: Usavi_45 Start: 39200, Stop: 38985, Start Num: 50
Candidate Starts for Usavi_45:
(Start: 50 @39200 has 319 MA's), (Start: 68 @39170 has 41 MA's), (81, 39125),

Gene: Vaishali24_44 Start: 38861, Stop: 38646, Start Num: 50
Candidate Starts for Vaishali24_44:
(Start: 50 @38861 has 319 MA's), (Start: 68 @38831 has 41 MA's), (81, 38786), (91, 38753),

Gene: Valjean_45 Start: 39192, Stop: 38977, Start Num: 50
Candidate Starts for Valjean_45:
(20, 39294), (Start: 50 @39192 has 319 MA's), (Start: 68 @39162 has 41 MA's), (81, 39117),

Gene: Vasanti_31 Start: 26204, Stop: 25965, Start Num: 57
Candidate Starts for Vasanti_31:
(Start: 57 @26204 has 13 MA's), (74, 26183), (78, 26168), (80, 26156), (91, 26120), (107, 25973),

Gene: Vaticameos_41 Start: 36890, Stop: 36675, Start Num: 50
Candidate Starts for Vaticameos_41:
(Start: 50 @36890 has 319 MA's), (Start: 68 @36860 has 41 MA's), (81, 36815), (91, 36782),

Gene: Vectra_44 Start: 38759, Stop: 38544, Start Num: 50
Candidate Starts for Vectra_44:
(Start: 50 @38759 has 319 MA's), (Start: 68 @38729 has 41 MA's), (81, 38684), (91, 38651),

Gene: Veritas_44 Start: 38762, Stop: 38547, Start Num: 50
Candidate Starts for Veritas_44:
(Start: 50 @38762 has 319 MA's), (Start: 68 @38732 has 41 MA's), (81, 38687),

Gene: Vic9_00043 Start: 39943, Stop: 39737, Start Num: 55
Candidate Starts for Vic9_00043:
(Start: 55 @39943 has 35 MA's), (Start: 69 @39916 has 3 MA's), (87, 39859), (94, 39826),

Gene: Vincenzo_41 Start: 39951, Stop: 39745, Start Num: 52
Candidate Starts for Vincenzo_41:
(Start: 52 @39951 has 29 MA's), (Start: 68 @39930 has 41 MA's), (72, 39924), (78, 39903), (81, 39885), (85, 39876), (87, 39867), (93, 39837), (94, 39834), (95, 39831),

Gene: VioletZ_41 Start: 39270, Stop: 39064, Start Num: 52
Candidate Starts for VioletZ_41:
(Start: 52 @39270 has 29 MA's), (Start: 68 @39249 has 41 MA's), (78, 39222), (81, 39204), (87, 39186), (93, 39156), (95, 39150),

Gene: Virapocalypse_45 Start: 39187, Stop: 38972, Start Num: 50
Candidate Starts for Virapocalypse_45:
(Start: 50 @39187 has 319 MA's), (Start: 68 @39157 has 41 MA's), (81, 39112),

Gene: Virgeve_44 Start: 38967, Stop: 38752, Start Num: 50
Candidate Starts for Virgeve_44:
(20, 39069), (Start: 50 @38967 has 319 MA's), (Start: 68 @38937 has 41 MA's), (81, 38892),

Gene: Vista_45 Start: 39200, Stop: 38985, Start Num: 50
Candidate Starts for Vista_45:
(Start: 50 @39200 has 319 MA's), (Start: 68 @39170 has 41 MA's), (81, 39125),

Gene: Vivaldi_45 Start: 39229, Stop: 39014, Start Num: 50
Candidate Starts for Vivaldi_45:

(20, 39331), (Start: 50 @39229 has 319 MA's), (Start: 68 @39199 has 41 MA's), (81, 39154),

Gene: Vortex_45 Start: 38906, Stop: 38691, Start Num: 50
Candidate Starts for Vortex_45:
(Start: 50 @38906 has 319 MA's), (Start: 68 @38876 has 41 MA's), (81, 38831), (91, 38798),

Gene: Vulpecula_25 Start: 19383, Stop: 19186, Start Num: 62
Candidate Starts for Vulpecula_25:
(Start: 62 @19383 has 5 MA's),

Gene: Waleliano_40 Start: 39197, Stop: 38991, Start Num: 52
Candidate Starts for Waleliano_40:
(Start: 52 @39197 has 29 MA's), (Start: 68 @39176 has 41 MA's), (78, 39149), (81, 39131), (87, 39113), (93, 39083), (95, 39077),

Gene: Wallhey_44 Start: 38763, Stop: 38548, Start Num: 50
Candidate Starts for Wallhey_44:
(Start: 50 @38763 has 319 MA's), (Start: 68 @38733 has 41 MA's), (81, 38688), (91, 38655),

Gene: Waterdiva_45 Start: 39192, Stop: 38977, Start Num: 50
Candidate Starts for Waterdiva_45:
(Start: 50 @39192 has 319 MA's), (Start: 68 @39162 has 41 MA's), (81, 39117),

Gene: Weher20_45 Start: 39191, Stop: 38976, Start Num: 50
Candidate Starts for Weher20_45:
(Start: 50 @39191 has 319 MA's), (Start: 68 @39161 has 41 MA's), (81, 39116),

Gene: West99_44 Start: 39557, Stop: 39351, Start Num: 55
Candidate Starts for West99_44:
(Start: 55 @39557 has 35 MA's), (Start: 69 @39530 has 3 MA's), (72, 39527), (87, 39473), (94, 39440),

Gene: Whack_33 Start: 28160, Stop: 27924, Start Num: 45
Candidate Starts for Whack_33:
(35, 28187), (Start: 45 @28160 has 39 MA's), (89, 28040),

Gene: Whiteclaw_30 Start: 25663, Stop: 25463, Start Num: 57
Candidate Starts for Whiteclaw_30:
(Start: 57 @25663 has 13 MA's), (74, 25642), (78, 25627), (80, 25615), (91, 25579),

Gene: Whitney_42 Start: 32542, Stop: 32306, Start Num: 45
Candidate Starts for Whitney_42:
(Start: 45 @32542 has 39 MA's), (Start: 68 @32500 has 41 MA's), (77, 32479), (86, 32437), (96, 32389),

Gene: WileyE_25 Start: 18878, Stop: 18663, Start Num: 62
Candidate Starts for WileyE_25:
(Start: 62 @18878 has 5 MA's),

Gene: Windsor_44 Start: 38896, Stop: 38681, Start Num: 50
Candidate Starts for Windsor_44:
(20, 38998), (Start: 50 @38896 has 319 MA's), (Start: 68 @38866 has 41 MA's), (81, 38821),

Gene: Wooper_40 Start: 34857, Stop: 34591, Start Num: 42

Candidate Starts for Wooper_40:
(28, 34902), (29, 34893), (Start: 42 @34857 has 63 MA's), (Start: 68 @34809 has 41 MA's), (Start: 69 @34806 has 3 MA's), (74, 34797), (88, 34737), (95, 34710),

Gene: Xavier_44 Start: 38913, Stop: 38698, Start Num: 50
Candidate Starts for Xavier_44:
(Start: 50 @38913 has 319 MA's), (Start: 68 @38883 has 41 MA's), (81, 38838), (91, 38805),

Gene: Xincheng_39 Start: 38653, Stop: 38447, Start Num: 52
Candidate Starts for Xincheng_39:
(Start: 52 @38653 has 29 MA's), (Start: 68 @38632 has 41 MA's), (78, 38605), (81, 38587), (87, 38569), (93, 38539), (95, 38533),

Gene: Yago84_38 Start: 33684, Stop: 33457, Start Num: 40
Candidate Starts for Yago84_38:
(Start: 40 @33684 has 5 MA's), (90, 33567), (101, 33498),

Gene: Yahalom_43 Start: 39041, Stop: 38805, Start Num: 42
Candidate Starts for Yahalom_43:
(Start: 42 @39041 has 63 MA's), (72, 38984), (88, 38918), (91, 38912),

Gene: Yeshua_40 Start: 34834, Stop: 34568, Start Num: 42
Candidate Starts for Yeshua_40:
(28, 34879), (29, 34870), (Start: 42 @34834 has 63 MA's), (Start: 68 @34786 has 41 MA's), (Start: 69 @34783 has 3 MA's), (74, 34774), (88, 34714), (95, 34687),

Gene: Yinz_43 Start: 39067, Stop: 38831, Start Num: 42
Candidate Starts for Yinz_43:
(Start: 42 @39067 has 63 MA's), (72, 39010), (88, 38944), (91, 38938),

Gene: Yinzer_30 Start: 25663, Stop: 25463, Start Num: 57
Candidate Starts for Yinzer_30:
(Start: 57 @25663 has 13 MA's), (74, 25642), (78, 25627), (80, 25615), (91, 25579),

Gene: Yoshand_45 Start: 39199, Stop: 38984, Start Num: 50
Candidate Starts for Yoshand_45:
(Start: 50 @39199 has 319 MA's), (Start: 68 @39169 has 41 MA's), (81, 39124), (91, 39091),

Gene: Yoshi_28 Start: 24080, Stop: 23901, Start Num: 63
Candidate Starts for Yoshi_28:
(Start: 49 @24104 has 1 MA's), (Start: 63 @24080 has 10 MA's), (Start: 66 @24074 has 2 MA's), (76, 24047), (83, 24014), (101, 23918),

Gene: YouGoGlencoco_45 Start: 39194, Stop: 38979, Start Num: 50
Candidate Starts for YouGoGlencoco_45:
(Start: 50 @39194 has 319 MA's), (Start: 68 @39164 has 41 MA's), (81, 39119),

Gene: Zaider_46 Start: 39424, Stop: 39209, Start Num: 50
Candidate Starts for Zaider_46:
(Start: 50 @39424 has 319 MA's), (Start: 68 @39394 has 41 MA's), (81, 39349),

Gene: Zameen_35 Start: 29354, Stop: 29118, Start Num: 45
Candidate Starts for Zameen_35:

(Start: 45 @29354 has 39 MA's), (Start: 68 @29312 has 41 MA's), (77, 29291), (86, 29249), (96, 29201), (105, 29129),

Gene: Zelda_45 Start: 39241, Stop: 39026, Start Num: 50
Candidate Starts for Zelda_45:
(Start: 50 @39241 has 319 MA's), (Start: 68 @39211 has 41 MA's), (81, 39166),

Gene: Zemanar_41 Start: 39200, Stop: 38994, Start Num: 52
Candidate Starts for Zemanar_41:
(Start: 52 @39200 has 29 MA's), (Start: 68 @39179 has 41 MA's), (78, 39152), (81, 39134), (87, 39116), (93, 39086), (95, 39080),

Gene: Zenteno07_48 Start: 38553, Stop: 38338, Start Num: 53
Candidate Starts for Zenteno07_48:
(Start: 53 @38553 has 5 MA's), (Start: 68 @38529 has 41 MA's), (85, 38475), (102, 38379),

Gene: Zixiang_26 Start: 20028, Stop: 19825, Start Num: 68
Candidate Starts for Zixiang_26:
(Start: 68 @20028 has 41 MA's),

Gene: Zonia_45 Start: 39213, Stop: 38998, Start Num: 50
Candidate Starts for Zonia_45:
(Start: 50 @39213 has 319 MA's), (Start: 68 @39183 has 41 MA's), (81, 39138), (91, 39105),