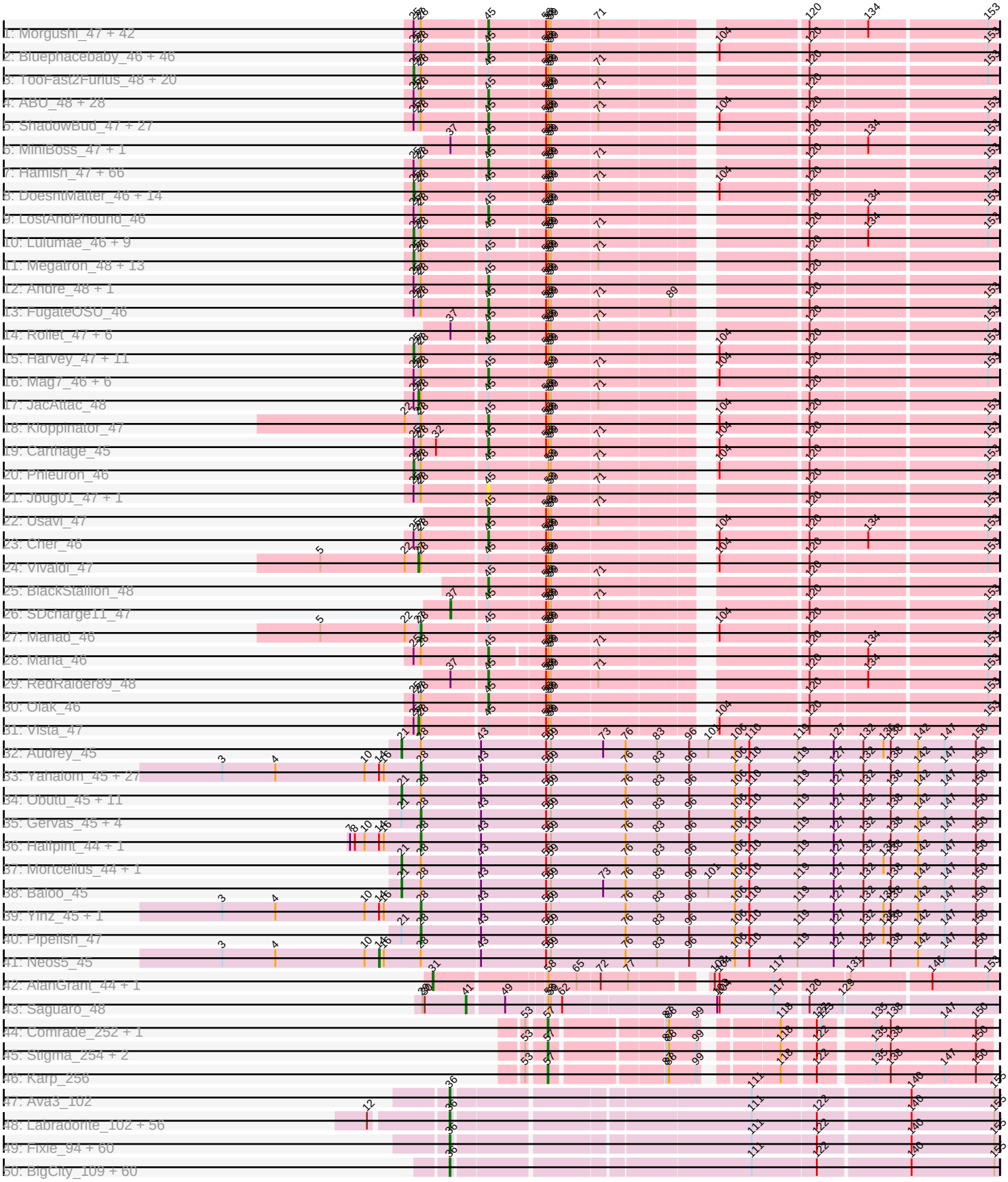
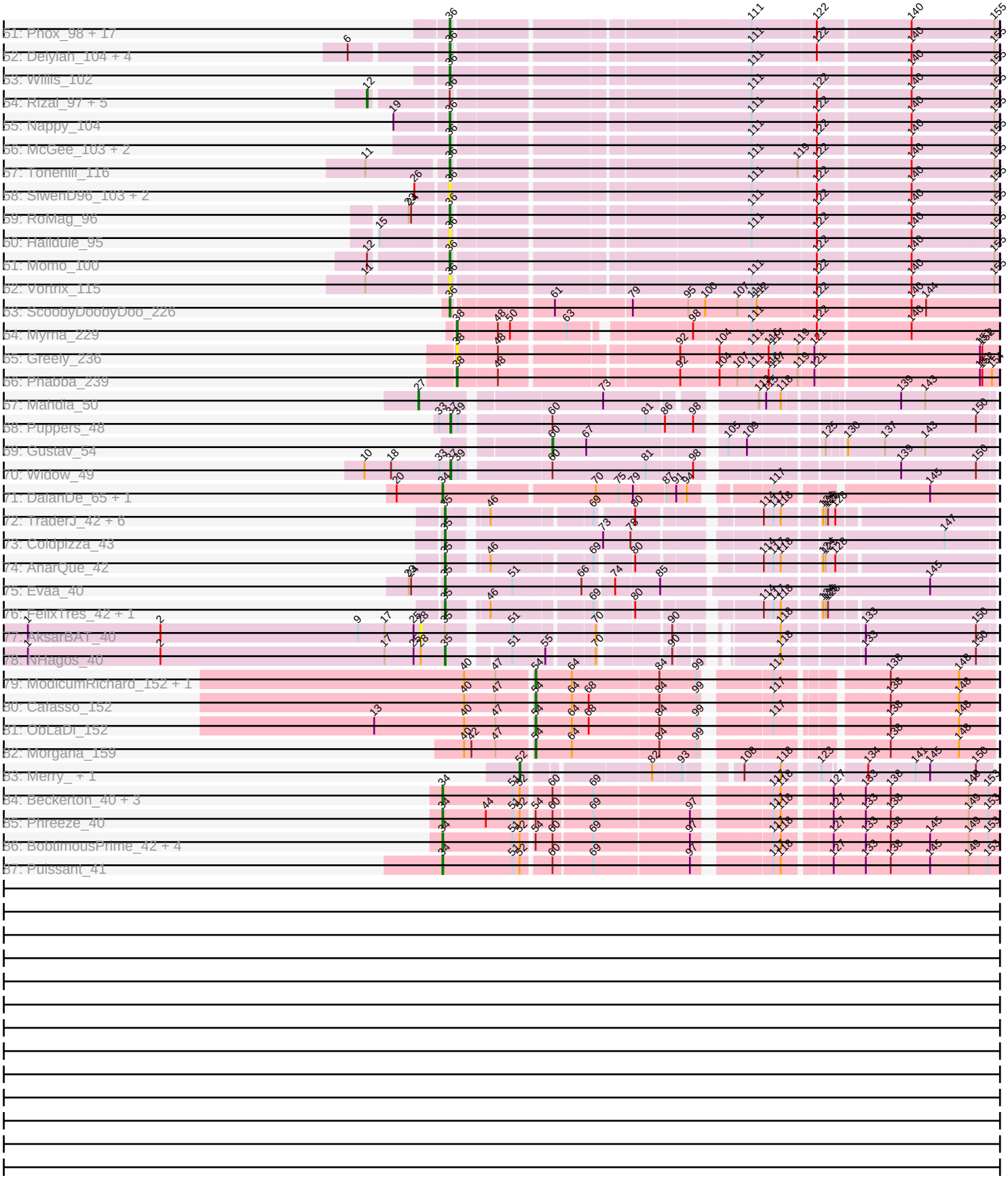
Pham 347049


1: Morgushi_47 + 42
2: Bluephacebaby_46 + 46
3: TooFast2Furius_48 + 20
4: ABU_48 + 28
5: ShadowBud_47 + 27
6: MiniBoss_47 + 1
7: Hamish_47 + 66
8: DoesntMatter_46 + 14
9: LostAndPhound_46
10: Lulumae_46 + 9
11: Megatron_48 + 13
12: Andre_48 + 1
13: FugateOSU_46
14: Rollet_47 + 6
15: Harvey_47 + 11
16: Mag7_46 + 6
17: JacAttac_48
18: Kloppinator_47
19: Carthage_45
20: Phleuron_46
21: Jbug01_47 + 1
22: Usavi_47
23: Cher_46
24: Vivaldi_47
25: BlackStallion_48
26: SDcharge11_47
27: Manao_46
28: Mana_46
29: RedRaider89_48
30: Olak_46
31: Vista_47
32: Audrey_45
33: Yahalom_45 + 27
34: Obutu_45 + 11
35: Gervas_45 + 4
36: Halfpint_44 + 1
37: Moncellus_44 + 1
38: Baloo_45
39: Yinz_45 + 1
40: Pipefish_47
41: Neos5_45
42: AlanGrant_44 + 1
43: Saguaro_48
44: Comrade_252 + 1
45: Stigma_254 + 2
46: Karp_256
47: Ava3_102
48: Labradorite_102 + 56
49: Fixie_94 + 60
50: BigCity_109 + 60

Pham 347049


51: Phox_98 + 17
52: Delylah_104 + 4
53: Willis_102
54: Rizal_97 + 5
55: Nappy_104
56: McGee_103 + 2
57: Tonehill_116
58: SlwenD96_103 + 2
59: RoMag_96
60: Halldale_95
61: Momo_100
62: Vortrix_115
63: ScoobyDoobyDoo_226
64: Myrna_229
65: Greely_236
66: Phabba_239
67: Mandia_50
68: Puppers_48
69: Gustav_54
70: Widow_49
71: DalanDe_65 + 1
72: TraderJ_42 + 6
73: Coldpizza_43
74: AnarQue_42
75: Evaa_40
76: FelixTres_42 + 1
77: AksarBAT_40
78: NHagos_40
79: ModicumRichard_152 + 1
80: Calasso_152
81: ObLaDi_152
82: Morgana_159
83: Merry_ + 1
84: Beckerton_40 + 3
85: Phreeze_40
86: BobtimousPrime_42 + 4
87: Puissant_41

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 347049 Report

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

Pham number 347049 has 650 members, 65 are drafts.

Phages represented in each track:
• Track 1 : Morgushi_47, Beaglebox_46, Kwadwo_46, Haleema_46, Timmi_46, Dice_46, Brilliant_47, Gwennie1_47, HenryJackson_46, Orfeu_46, Khan1_46, Lasso_47, Ricotta_46, CamL_47, Kahve_46, Lumine_46, TomBombadil_47, Cannibal_47, Dione_46, Samaymay_47, LuckyMarjie_46, Freya_46, Nathan_47, MrPhizzler_47, Grand2040_46, Simielle_46, Maru_46, Iridessa_47, Rimu_47, NiaNia_49, Gareth_46, Sophia_46, Eugenia_47, Serendipity_47, QueenBeane_47, Mesmerelda_46, PinheadLarry_47, Longacauda_46, Toni_46, Hocus_46, Legolas_47, Daffy_47, Phareon_47
• Track 2 : Bluephacebaby_46, JangoPhett_47, Schadenfreude_46, Jesabah_47, Cobra_47, UAch1_47, Wallhey_46, Jillium_46, Held_47, GreenChile_47, Robyn_46, DonSanchon_46, Potter_46, FremontTroll_46, EmGer13_47, Mesh1_47, PhatLouie_47, YouGoGlencoco_47, Labeouficaum_46, Matalotodo_47, Zaider_48, Placalicious_46, Cosmolli16_46, Derpp_46, Kwksand96_46, Hetaeria_47, Swiphy_47, Pacifista_46, TyrionL_46, Altwerkus_46, SassyCat97_46, DelRivs_46, MitKao_47, Zonia_47, Aelin_46, Pinkman_46, Thora_47, Zelda_47, Cornbread_46, True_46, GeneCoco_47, Surely_47, Chorkpop_47, Virapocalypse_47, FriarPreacher_46, LemonSlice_47, Antonia_46
• Track 3 : TooFast2Furius_48, PhenghisKhan_46, PhrankReynolds_45, Colbert_47, Vectra_46, Nova1_47, Apizium_47, Basato_48, Pipsqueak_47, Aleia_47, Flake_47, Chipette_48, Mcshane_46, Olive_47, OliverWalter_47, Waterdiva_47, Coletti_47, Schueller_46, Phergie_46, Thunderbird_46, CheetO_47
• Track 4 : ABU_48, PhrodoBaggins_47, Badfish_48, LasagnaCat_48, Katniss_48, Orion_48, Scoot17C_48, Swish_48, PhatCats2014_48, Phamished_48, HighStump_47, SallyH_48, ElvisPhasley_48, CampRoach_48, Craff_48, Fringe_48, Adriana_48, Morty_48, PG1_48, RedMaple_47, Mulan_47, Inchworm_48, Yoshand_48, Pherdinand_48, Emiris_48, DolOn_50, MelsMeow_47, Lego3393_46, Durga_48
• Track 5 : ShadowBud_47, Scrick_47, Telesworld_46, Charles1_47, Quisquiliae_47, HogWash_47, Lulwa_47, Slatt_47, Tooj_47, Piglet_0046, FleetyMac_47, Aonishiki_47, JDog_46, HSavage_47, Frankicide_47, Buckeye_47, Orwigg_46, KLucky39_47, Weher20_47, Numberten_47, Chunky_47, DirtJuice_47, Plmatters_47, Oline_46, Podrick_47, Dati_47, Pops_47, Etaye_47
• Track 6 : MiniBoss_47, AltPhacts_47
• Track 7 : Hamish_47, Crownjwl_47, Spartan300_47, Soile_47, Horchata_47, Eremos_47, Chute_47, Solosis_46, AbsoluteMadLad_46, Keitherie_47, Gwilliam_47, Phunky_47, Kimbrough_47, Nehme_46, DaddyDaniels_47, Megamind20_47, Gophee_47, Hartsy_47, Chuni_47, PallasAthena_46, MRabcd_46, Karn_46,

LeiMonet_47, OneBrain_48, Daka_48, ShiVal_47, Anderson_47, Jiraiya_46, CharlieGBrown_46, Struggle_46, Hekos_44, Haimas_47, EmpTee_47, Salazzle_47, Doddsville_47, Chaelin_47, Burr_46, Valjean_47, Roscoe_48, Plata_46, Prickles_47, Iridoclysis_47, Riggan_47, Boehler_47, Tomlarah_47, JakeO_46, SirBeauregard_47, KingTut_38, Jiminy_46, Larson_48, Omniscient_47, Suffolk_47, Windsor_46, Skippy_47, Squiggle_47, Duggie_46, Mutante_46, BoogieWoogie_47, ProfessorX_47, Fozzie_46, BlacksBerry_46, Cornobble_46, AngelCake_47, Mecca_46, Virgeve_46, Childish_46, Bishoperium_46
• Track 8 : DoesntMatter_46, Vaishali24_46, Happabalu_47, Lehmann_47, Septica_46, Riverton_47, Melc17_47, Serpentine_0047, Azuria_46, Triad_47, SilverBell_47, KlimbOn_47, Gyarad_0047, Newman_47, Inverness_47
• Track 9 : LostAndPhound_46
• Track 10 : Lulumae_46, Vaticameos_43, Puhltonio_47, Caspiboi_46, Vortex_47, Murdoc_47, Banjo_46, TallGrassMM_47, Roy17_47, Xavier_46
• Track 11 : Megatron_48, IsaacEli_48, Maskar_47, Fang_48, Nacho_0048, FluffyNinja_48, OSmaximus_48, Chah_49, ImtiyazSitla_47, ThreeOh3D2_48, Ashraf_47, Trypo_48, Kikipoo_48, Sigman_48
• Track 12 : Andre_48, DuchessDung_46
• Track 13 : FugateOSU_46
• Track 14 : Roliet_47, KingVeVeVe_47, Dingo_47, Mikota_47, BlueHusk_47, Soto_47, Sheila_47
• Track 15 : Harvey_47, Nyala_46, Oosterbaan_47, Giraffe_47, Kiwot_47, Mosaic_46, Selr12_47, Lopsy_46, UncleHowie_47, LeeLot_47, Squid_47, Hertubise_47
• Track 16 : Mag7_46, BatteryCK_46, Veritas_46, MichaelPhcott_46, Magic8_47, Nicole21_47, Kailash_47
• Track 17 : JacAttac_48
• Track 18 : Kloppinator_47
• Track 19 : Carthage_45
• Track 20 : Phleuron_46
• Track 21 : Jbug01_47, Taraxa_47
• Track 22 : Usavi_47
• Track 23 : Cher_46
• Track 24 : Vivaldi_47
• Track 25 : BlackStallion_48
• Track 26 : SDcharge11_47
• Track 27 : Manad_46
• Track 28 : Mana_46
• Track 29 : RedRaider89_48
• Track 30 : Olak_46
• Track 31 : Vista_47
• Track 32 : Audrey_45
• Track 33 : Yahalom_45, Nozo_45, Daisy_45, Philly_44, Marlia_45, Corofin_45, Heathcliff_45, Chalmers_45, Chandler_45, Deenasa_45, OrangeOswald_45, Shenandoah_45, Compostia_46, SynergyX_45, Athena_46, Jackstina_42, Phlyer_45, Mulaychimus_45, ChaChing_45, Briakila_46, Gadjet_46, Glubnar_46, HarveySr_45, RomaT_45, Akoma_45, GlenHope_46, Tydolla_45, RagingRooster_45
• Track 34 : Obutu_45, Abinghost_45, Devonte_45, Casbah_44, TinyTerror_45, MmasiCarm_45, Rita1961_45, LestyG_45, Olivio_44, Phayeta_46, SlippinJimmy_45, Chentzyk_45
• Track 35 : Gervas_45, Morty007_45, SwainyDoc_45, Ben11_44, Marley1013_45
• Track 36 : Halfpint_44, Kamiyu_45
• Track 37 : Mortcellus_44, Bernardo_46
• Track 38 : Baloo_45

• Track 39 : Yinz_45, Kronus_44
• Track 40 : Pipefish_47
• Track 41 : Neos5_45
• Track 42 : AlanGrant_44, Vincenzo_43
• Track 43 : Saguaro_48
• Track 44 : Comrade_252, Westy_258
• Track 45 : Stigma_254, Belfort_257, SparkleGoddess_256
• Track 46 : Karp_256
• Track 47 : Ava3_102
• Track 48 : Labradorite_102, Substance289_99, ValleyTerrace_101, Amataga_101, InigoMontoya_102, Bowman_103, Derek_101, BadAgartude_97, Maguvora_106, FrayBell_106, GlutenPhree_102, Tortoise16_98, SmallFry_101, Flabslab_95, Ading_101, Atlantean_100, CindyLou_102, Gabriel_102, Shnickers_101, Puhon_105, Rahel_100, Guwapp_100, Essence_98, Tainan_105, Spec_98, Specks_106, PharkleMinkus_104, Jedediah_104, Ghost_100, Phlegm_103, Chomp_100, Bangla1971_102, Adlitam_101, Breeniome_100, Drazdys_100, Naija_100, Ngannou_97, Audrick_103, Tyke_102, GoldenSnow_105, ShiaLabeouf_100, Jemmno_101, LordLeafolot_106, Jaygup_101, Phusco_101, Matsumoto_99, Pupusa_107, InterFolia_109, Latch_101, SilverDipper_102, ArcherS7_100, LolaVinca_102, Teardrop_100, NoodleTree_108, Pivoine_100, Patter_101, Dessert_101
• Track 49 : Fixie_94, Primadonna_95, Chargie21_98, LinStu_101, Zalkecks_102, Blackbrain_96, Stubby_94, Basquiat_98, Shaqnato_94, JayJay_107, Lee7_104, Fongie_99, DeejaClivia_90, YoungMoneyMata_102, Burrough_101, Yucca_101, BananaFence_100, Naval22_109, Ewok_102, OrediggerDelux_104, Blackdragon_97, JulietS_95, Rabinovish_99, Pinkcreek_92, Mangeria_101, Maturis_99, EasyJones_104, Salacia_105, Alice_94, DirtMonster_95, NuevoMundo_107, Montpel_100, FudgeTart_101, Sebata_103, Moby_92, SoilZilla_97, Moiqah_92, ScottMcG_98, Yassified_98, ET08_90, Darko_101, Sprinklers_97, Wally_100, Rocha_100, QBert_95, Cactojaque_96, Bread_101, Fludd_102, CharlieB_97, BeanWater_93, Belieber_97, Sauce_102, Nidhogg_102, Kboogie_105, TinyTim_101, Pleione_104, Quasimodo_102, HyRo_93, ChickenPhender_97, Maby2021_101, SrishMeg2525_100
• Track 50 : BigCity_109, IkeLoa_95, MikeLiesIn_102, DrPhinkDaddy_100, Izajani_101, Duckfeet_94, Mikro_99, Gizmo_105, Daffodil_106, Pio_105, Colt_91, StephanieG_100, Grasshills_108, ChaylaJr_96, Megamind_100, Blubba_90, DTDevon_102, EggyFarm_109, SVoro_99, Erdmann_102, Trinitium_98, NedWong_102, Zeenon_103, LookingGlass_102, Jessibeth14_100, Morizzled23_101, McWolfish_99, Bxz1_99, ErnieJ_97, Roots515_100, FoxtrotP1_101, Khaleesi_100, Caravan_96, Turret_96, ParkTD_102, Catera_98, YemiJoy2021_102, Pier_105, JustHall_98, Bipolarisk_100, Shelob_103, Loanshark_101, EmToTheThree_104, Issimir_100, Jezreel_101, Shrimp_101, Iota_96, Lethe_100, Domi_95, Delilah_101, Bonray_101, Cane17_90, Norm_102, Shifa_90, ZygoTaiga_100, I3_107, Asterius_104, MoMoMixon_102, Dandelion_108, JigglyPuff_109, PurduePete_101
• Track 51 : Phox_98, Dietrick_93, LRRHood_96, Ronan_95, Grungle_89, Janiyra_103, Koguma_98, Babyland_102, Melpomini_95, Lunareta_100, Bezza_95, BackyardAgain_98, StubbySaigey_104, Cali_97, Napoleon13_97, EmmaElysia_101, Lukilu_92, Spud_101
• Track 52 : Delylah_104, Littleton_101, Kamryn_101, Capablanca_103, Bigswole_106
• Track 53 : Willis_102

• Track 54 : Rizal_97, Astraea_98, Gamgam_101, Cleatunium_95, JPickles_99, LifeSavor_100
• Track 55 : Nappy_104
• Track 56 : McGee_103, Ablatia_100, BobaPhatt_98
• Track 57 : Tonenili_116
• Track 58 : SiwenD96_103, Demodog_108, Concombre_108
• Track 59 : RoMag_96
• Track 60 : Halldule_95
• Track 61 : Momo_100
• Track 62 : Vortrix_115
• Track 63 : ScoobyDoobyDoo_226
• Track 64 : Myrna_229
• Track 65 : Greely_236
• Track 66 : Phabba_239
• Track 67 : Mahdia_50
• Track 68 : Puppers_48
• Track 69 : Gustav_54
• Track 70 : Widow_49
• Track 71 : DalanDe_65, Thales_63
• Track 72 : TraderJ_42, MossRose_42, MakoManhole_42, Yeshua_42, CaiB_42, Blackpen_42, Wooper_42
• Track 73 : Coldpizza_43
• Track 74 : AnarQue_42
• Track 75 : Evaa_40
• Track 76 : FelixTres_42, CloverMinnie_42
• Track 77 : AksarBAT_40
• Track 78 : NHagos_40
• Track 79 : ModicumRichard_152, Aleemily_150
• Track 80 : Cafasso_152
• Track 81 : ObLaDi_152
• Track 82 : Morgana_159
• Track 83 : Merry_, Sunny_
• Track 84 : Beckerton_40, Konstantine_45, Megatron06_42, Damien_41
• Track 85 : Phreeze_40
• Track 86 : BobtimousPrime_42, Cborch11_42, Oaker_40, Thumb_41, Nish23_43
• Track 87 : Puissant_41

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

The start number called the most often in the published annotations is 45, it was called in 228 of the 585 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABU_48, AbsoluteMadLad_46, Adriana_48, Aelin_46, AltPhacts_47, Altwerkus_46, Anderson_47, Andre_48, AngelCake_47, Antonia_46, Aonishiki_47, Badfish_48, BatteryCK_46, Beaglebox_46, Bishoperium_46, BlackStallion_48, BlacksBerry_46, BlueHusk_47, Bluephacebaby_46, Boehler_47, BoogieWoogie_47, Brilliant_47, Buckeye_47, Burr_46, CamL_47, CampRoach_48, Cannibal_47, Carthage_45, Chaelin_47, Charles1_47, CharlieGBrown_46, Cher_46, Childish_46, Chorkpop_47, Chuni_47, Chunky_47, Chute_47, Cobra_47, Cornbread_46, Cornobble_46,

Cosmolli16_46, Craff_48, Crownjwl_47, DaddyDaniels_47, Daffy_47, Daka_48, Dati_47, DelRivs_46, Derpp_46, Dice_46, Dingo_47, Dione_46, DirtJuice_47, Doddsville_47, DolOn_50, DonSanchon_46, DuchessDung_46, Duggie_46, Durga_48, ElvisPhasley_48, EmGer13_47, Emiris_48, EmpTee_47, Eremos_47, Etaye_47, Eugenia_47, FleetyMac_47, Fozzie_46, Frankicide_47, FremontTroll_46, Freya_46, FriarPreacher_46, Fringe_48, FugateOSU_46, Gareth_46, GeneCoco_47, Gophee_47, Grand2040_46, GreenChile_47, Gwennie1_47, Gwilliam_47, HSavage_47, Haimas_47, Haleema_46, Hamish_47, Hartsy_47, Hekos_44, Held_47, HenryJackson_46, Hetaeria_47, HighStump_47, Hocus_46, HogWash_47, Horchata_47, Inchworm_48, Iridessa_47, Iridoclysis_47, JDog_46, JakeO_46, JangoPhett_47, Jbug01_47, Jesabah_47, Jillium_46, Jiminy_46, Jiraiya_46, KLucky39_47, Kahve_46, Kailash_47, Karn_46, Katniss_48, Keitherie_47, Khan1_46, Kimbrough_47, KingTut_38, KingVeVeVe_47, Kloppinator_47, Kwadwo_46, Kwksand96_46, Labeouficaum_46, Larson_48, LasagnaCat_48, Lasso_47, Lego3393_46, Legolas_47, LeiMonet_47, LemonSlice_47, Longacauda_46, LostAndPhound_46, LuckyMarjie_46, Lulwa_47, Lumine_46, MRabcd_46, Mag7_46, Magic8_47, Mana_46, Maru_46, Matalotodo_47, Mecca_46, Megamind20_47, MelsMeow_47, Mesh1_47, Mesmerelda_46, MichaelPhcott_46, Mikota_47, MiniBoss_47, MitKao_47, Morgushi_47, Morty_48, MrPhizzler_47, Mulan_47, Mutante_46, Nathan_47, Nehme_46, NiaNia_49, Nicole21_47, Numberten_47, Olak_46, Oline_46, Omniscient_47, OneBrain_48, Orfeu_46, Orion_48, Orwigg_46, PG1_48, Pacifista_46, PallasAthena_46, Phamished_48, Phareon_47, PhatCats2014_48, PhatLouie_47, Pherdinand_48, PhrodoBaggins_47, Phunky_47, Piglet_0046, PinheadLarry_47, Pinkman_46, Placalicious_46, Plata_46, Plmatters_47, Podrick_47, Pops_47, Potter_46, Prickles_47, ProfessorX_47, QueenBeane_47, Quisquiliae_47, RedMaple_47, RedRaider89_48, Ricotta_46, Riggan_47, Rimu_47, Robyn_46, Roliet_47, Roscoe_48, Salazzle_47, SallyH_48, Samaymay_47, SassyCat97_46, Schadenfreude_46, Scoot17C_48, Scrick_47, Serendipity_47, ShadowBud_47, Sheila_47, ShiVal_47, Simielle_46, SirBeauregard_47, Skippy_47, Slatt_47, Soile_47, Solosis_46, Sophia_46, Soto_47, Spartan300_47, Squiggle_47, Struggle_46, Suffolk_47, Surely_47, Swiphy_47, Swish_48, Taraxa_47, Telesworld_46, Thora_47, Timmi_46, TomBombadil_47, Tomlarah_47, Toni_46, Tooj_47, True_46, TyrionL_46, UAch1_47, Usavi_47, Valjean_47, Veritas_46, Virapocalypse_47, Virgeve_46, Wallhey_46, Weher20_47, Windsor_46, Yoshand_48, YouGoGlencoco_47, Zaider_48, Zelda_47, Zonia_47,

Genes that have the "Most Annotated" start but do not call it:
• Aleia_47, Apizium_47, Ashraf_47, Azuria_46, Banjo_46, Basato_48, Caspiboi_46, Chah_49, CheetO_47, Chipette_48, Colbert_47, Coletti_47, DoesntMatter_46, Fang_48, Flake_47, FluffyNinja_48, Giraffe_47, Gyarad_0047, Happabalu_47, Harvey_47, Hertubise_47, ImtiyazSitla_47, Inverness_47, IsaacEli_48, JacAttac_48, Kikipoo_48, Kiwot_47, KlimbOn_47, LeeLot_47, Lehmann_47, Lopsy_46, Lulumae_46, Manad_46, Maskar_47, Mcshane_46, Megatron_48, Melc17_47, Mosaic_46, Murdoc_47, Nacho_0048, Newman_47, Nova1_47, Nyala_46, OSmaximus_48, Olive_47, OliverWalter_47, Oosterbaan_47, PhenghisKhan_46, Phergie_46, Phleuron_46, PhrankReynolds_45, Pipsqueak_47, Puhltonio_47, Riverton_47, Roy17_47, SDcharge11_47, Schueller_46, Selr12_47, Septica_46, Serpentine_0047, Sigman_48, SilverBell_47, Squid_47, TallGrassMM_47, ThreeOh3D2_48, Thunderbird_46, TooFast2Furius_48, Triad_47, Trypo_48, UncleHowie_47, Vaishali24_46, Vaticameos_43, Vectra_46, Vista_47, Vivaldi_47, Vortex_47, Waterdiva_47, Xavier_46,

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

• Abinghost_45, Ablatia_100, Ading_101, Adlitam_101, Akoma_45, AksarBAT_40, AlanGrant_44, Aleemily_150, Alice_94, Amataga_101, AnarQue_42, ArcherS7_100, Asterius_104, Astraea_98, Athena_46, Atlantean_100, Audrey_45, Audrick_103, Ava3_102, Babyland_102, BackyardAgain_98, BadAgartude_97, Baloo_45, BananaFence_100, Bangla1971_102, Basquiat_98, BeanWater_93, Beckerton_40, Belfort_257, Belieber_97, Ben11_44, Bernardo_46, Bezza_95, BigCity_109, Bigswole_106, Bipolarisk_100, Blackbrain_96, Blackdragon_97, Blackpen_42, Blubba_90, BobaPhatt_98, BobtimousPrime_42, Bonray_101, Bowman_103, Bread_101, Breeniome_100, Briakila_46, Burrough_101, Bxz1_99, Cactojaque_96, Cafasso_152, CaiB_42, Cali_97, Cane17_90, Capablanca_103, Caravan_96, Casbah_44, Catera_98, Cborch11_42, ChaChing_45, Chalmers_45, Chandler_45, Chargie21_98, CharlieB_97, ChaylaJr_96, Chentzyk_45, ChickenPhender_97, Chomp_100, CindyLou_102, Cleatunium_95, CloverMinnie_42, Coldpizza_43, Colt_91, Compostia_46, Comrade_252, Concombre_108, Corofin_45, DTDevon_102, Daffodil_106, Daisy_45, DalanDe_65, Damien_41, Dandelion_108, Darko_101, DeejaClivia_90, Deenasa_45, Delilah_101, Delylah_104, Demodog_108, Derek_101, Dessert_101, Devonte_45, Dietrick_93, DirtMonster_95, Domi_95, DrPhinkDaddy_100, Drazdys_100, Duckfeet_94, ET08_90, EasyJones_104, EggyFarm_109, EmToTheThree_104, EmmaElysia_101, Erdmann_102, ErnieJ_97, Essence_98, Evaa_40, Ewok_102, FelixTres_42, Fixie_94, Flabslab_95, Fludd_102, Fongie_99, FoxtrotP1_101, FrayBell_106, FudgeTart_101, Gabriel_102, Gadjet_46, Gamgam_101, Gervas_45, Ghost_100, Gizmo_105, GlenHope_46, Glubnar_46, GlutenPhree_102, GoldenSnow_105, Grasshills_108, Greely_236, Grungle_89, Gustav_54, Guwapp_100, Halfpint_44, Halldule_95, HarveySr_45, Heathcliff_45, HyRo_93, I3_107, IkeLoa_95, InigoMontoya_102, InterFolia_109, Iota_96, Issimir_100, Izajani_101, JPickles_99, Jackstina_42, Janiyra_103, JayJay_107, Jaygup_101, Jedediah_104, Jemmno_101, Jessibeth14_100, Jezreel_101, JigglyPuff_109, JulietS_95, JustHall_98, Kamiyu_45, Kamryn_101, Karp_256, Kboogie_105, Khaleesi_100, Koguma_98, Konstantine_45, Kronus_44, LRRHood_96, Labradorite_102, Latch_101, Lee7_104, LestyG_45, Lethe_100, LifeSavor_100, LinStu_101, Littleton_101, Loanshark_101, LolaVinca_102, LookingGlass_102, LordLeafolot_106, Lukilu_92, Lunareta_100, Maby2021_101, Maguvora_106, Mahdia_50, MakoManhole_42, Mangeria_101, Marley1013_45, Marlia_45, Matsumoto_99, Maturis_99, McGee_103, McWolfish_99, Megamind_100, Megatron06_42, Melpomini_95, Merry_, MikeLiesIn_102, Mikro_99, MmasiCarm_45, MoMoMixon_102, Moby_92, ModicumRichard_152, Moiqah_92, Momo_100, Montpel_100, Morgana_159, Morizzled23_101, Mortcellus_44, Morty007_45, MossRose_42, Mulaychimus_45, Myrna_229, NHagos_40, Naija_100, Napoleon13_97, Nappy_104, Naval22_109, NedWong_102, Neos5_45, Ngannou_97, Nidhogg_102, Nish23_43, NoodleTree_108, Norm_102, Nozo_45, NuevoMundo_107, Oaker_40, ObLaDi_152, Obutu_45, Olivio_44, OrangeOswald_45, OrediggerDelux_104, ParkTD_102, Patter_101, Phabba_239, PharkleMinkus_104, Phayeta_46, Philly_44, Phlegm_103, Phlyer_45, Phox_98, Phreeze_40, Phusco_101, Pier_105, Pinkcreek_92, Pio_105, Pipefish_47, Pivoine_100, Pleione_104, Primadonna_95, Puhon_105, Puissant_41, Puppers_48, Pupusa_107, PurduePete_101, QBert_95, Quasimodo_102, Rabinovish_99, RagingRooster_45, Rahel_100, Rita1961_45, Rizal_97, RoMag_96, Rocha_100, RomaT_45, Ronan_95, Roots515_100, SVoro_99, Saguaro_48, Salacia_105, Sauce_102, ScoobyDoobyDoo_226, ScottMcG_98, Sebata_103, Shaqnato_94, Shelob_103, Shenandoah_45, ShiaLabeouf_100, Shifa_90, Shnickers_101, Shrimp_101, SilverDipper_102, SiwenD96_103, SlippinJimmy_45, SmallFry_101, SoilZilla_97, SparkleGoddess_256, Spec_98, Specks_106, Sprinklers_97, Spud_101, SrishMeg2525_100, StephanieG_100, Stigma_254, StubbySaigey_104, Stubby_94,

Substance289_99, Sunny_, SwainyDoc_45, SynergyX_45, Tainan_105, Teardrop_100, Thales_63, Thumb_41, TinyTerror_45, TinyTim_101, Tonenili_116, Tortoise16_98, TraderJ_42, Trinitium_98, Turret_96, Tydolla_45, Tyke_102, ValleyTerrace_101, Vincenzo_43, Vortrix_115, Wally_100, Westy_258, Widow_49, Willis_102, Wooper_42, Yahalom_45, Yassified_98, YemiJoy2021_102, Yeshua_42, Yinz_45, YoungMoneyMata_102, Yucca_101, Zalkecks_102, Zeenon_103, ZygoTaiga_100,

Summary by start number:

Start 12:
• Found in 64 of 650 (9.8%) of genes in pham
• Manual Annotations of this start: 6 of 585
• Called 9.4% of time when present
• Phage (with cluster) where this start called: Astraea_98 (C1), Cleatunium_95 (C1), Gamgam_101 (C1), JPickles_99 (C1), LifeSavor_100 (C1), Rizal_97 (C1),

Start 14:
• Found in 33 of 650 (5.1%) of genes in pham
• Manual Annotations of this start: 1 of 585
• Called 3.0% of time when present
• Phage (with cluster) where this start called: Neos5_45 (B3),

Start 21:
• Found in 22 of 650 (3.4%) of genes in pham
• Manual Annotations of this start: 14 of 585
• Called 72.7% of time when present
• Phage (with cluster) where this start called: Abinghost_45 (B3), Audrey_45 (B3), Baloo_45 (B3), Bernardo_46 (B3), Casbah_44 (B3), Chentzyk_45 (B3), Devonte_45 (B3), LestyG_45 (B3), MmasiCarm_45 (B3), Mortcellus_44 (B3), Obutu_45 (B3), Olivio_44 (B3), Phayeta_46 (B3), Rita1961_45 (B3), SlippinJimmy_45 (B3), TinyTerror_45 (B3),

Start 25:
• Found in 308 of 650 (47.4%) of genes in pham
• Manual Annotations of this start: 63 of 585
• Called 23.7% of time when present
• Phage (with cluster) where this start called: Aleia_47 (B1), Apizium_47 (B1), Ashraf_47 (B1), Azuria_46 (B1), Banjo_46 (B1), Basato_48 (B1), Caspiboi_46 (B1), Chah_49 (B1), CheetO_47 (B1), Chipette_48 (B1), Colbert_47 (B1), Coletti_47 (B1), DoesntMatter_46 (B1), Fang_48 (B1), Flake_47 (B1), FluffyNinja_48 (B1), Giraffe_47 (B1), Gyarad_0047 (B1), Happabalu_47 (B1), Harvey_47 (B1), Hertubise_47 (B1), ImtiyazSitla_47 (B1), Inverness_47 (B1), IsaacEli_48 (B1), Kikipoo_48 (B1), Kiwot_47 (B1), KlimbOn_47 (B1), LeeLot_47 (B1), Lehmann_47 (B1), Lopsy_46 (B1), Lulumae_46 (B1), Maskar_47 (B1), Mcshane_46 (B1), Megatron_48 (B1), Melc17_47 (B1), Mosaic_46 (B1), Murdoc_47 (B1), Nacho_0048 (B1), Newman_47 (B1), Nova1_47 (B1), Nyala_46 (B1), OSmaximus_48 (B1), Olive_47 (B1), OliverWalter_47 (B1), Oosterbaan_47 (B1), PhenghisKhan_46 (B1), Phergie_46 (B1), Phleuron_46 (B1), PhrankReynolds_45 (B1), Pipsqueak_47 (B1), Puhltonio_47 (B1), Riverton_47 (B1), Roy17_47 (B1), Schueller_46 (B1), Selr12_47 (B1), Septica_46 (B1), Serpentine_0047 (B1), Sigman_48 (B1), SilverBell_47 (B1), Squid_47 (B1), TallGrassMM_47 (B1), ThreeOh3D2_48 (B1), Thunderbird_46 (B1), TooFast2Furius_48 (B1), Triad_47 (B1), Trypo_48 (B1), UncleHowie_47 (B1),

Vaishali24_46 (B1), Vaticameos_43 (B1), Vectra_46 (B1), Vortex_47 (B1), Waterdiva_47 (B1), Xavier_46 (B1),

Start 27:
• Found in 309 of 650 (47.5%) of genes in pham
• Manual Annotations of this start: 4 of 585
• Called 1.3% of time when present
• Phage (with cluster) where this start called: JacAttac_48 (B1), Mahdia_50 (CD), Vista_47 (B1), Vivaldi_47 (B1),

Start 28:
• Found in 366 of 650 (56.3%) of genes in pham
• Manual Annotations of this start: 38 of 585
• Called 10.9% of time when present
• Phage (with cluster) where this start called: Akoma_45 (B3), AksarBAT_40 (DR), Athena_46 (B3), Ben11_44 (B3), Briakila_46 (B3), ChaChing_45 (B3), Chalmers_45 (B3), Chandler_45 (B3), Compostia_46 (B3), Corofin_45 (B3), Daisy_45 (B3), Deenasa_45 (B3), Gadjet_46 (B3), Gervas_45 (B3), GlenHope_46 (B3), Glubnar_46 (B3), Halfpint_44 (B3), HarveySr_45 (B3), Heathcliff_45 (B3), Jackstina_42 (B3), Kamiyu_45 (B3), Kronus_44 (B3), Manad_46 (B1), Marley1013_45 (B3), Marlia_45 (B3), Morty007_45 (B3), Mulaychimus_45 (B3), Nozo_45 (B3), OrangeOswald_45 (B3), Philly_44 (B3), Phlyer_45 (B3), Pipefish_47 (B3), RagingRooster_45 (B3), RomaT_45 (B3), Shenandoah_45 (B3), SwainyDoc_45 (B3), SynergyX_45 (B3), Tydolla_45 (B3), Yahalom_45 (B3), Yinz_45 (B3),

Start 31:
• Found in 2 of 650 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 585
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AlanGrant_44 (B4), Vincenzo_43 (B4),

Start 34:
• Found in 13 of 650 (2.0%) of genes in pham
• Manual Annotations of this start: 11 of 585
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beckerton_40 (H1), BobtimousPrime_42 (H1), Cborch11_42 (H1), DalanDe_65 (DQ), Damien_41 (H1), Konstantine_45 (H1), Megatron06_42 (H1), Nish23_43 (H1), Oaker_40 (H1), Phreeze_40 (H1), Puissant_41 (H1), Thales_63 (DQ), Thumb_41 (H1),

Start 35:
• Found in 14 of 650 (2.2%) of genes in pham
• Manual Annotations of this start: 11 of 585
• Called 92.9% of time when present
• Phage (with cluster) where this start called: AnarQue_42 (DR), Blackpen_42 (DR), CaiB_42 (DR), CloverMinnie_42 (DR), Coldpizza_43 (DR), Evaa_40 (DR), FelixTres_42 (DR), MakoManhole_42 (DR), MossRose_42 (DR), NHagos_40 (DR), TraderJ_42 (DR), Wooper_42 (DR), Yeshua_42 (DR),

Start 36:
• Found in 223 of 650 (34.3%) of genes in pham
• Manual Annotations of this start: 187 of 585
• Called 97.3% of time when present

• Phage (with cluster) where this start called: Ablatia_100 (C1), Ading_101 (C1), Adlitam_101 (C1), Alice_94 (C1), Amataga_101 (C1), ArcherS7_100 (C1), Asterius_104 (C1), Atlantean_100 (C1), Audrick_103 (C1), Ava3_102 (C1), Babyland_102 (C1), BackyardAgain_98 (C1), BadAgartude_97 (C1), BananaFence_100 (C1), Bangla1971_102 (C1), Basquiat_98 (C1), BeanWater_93 (C1), Belieber_97 (C1), Bezza_95 (C1), BigCity_109 (C1), Bigswole_106 (C1), Bipolarisk_100 (C1), Blackbrain_96 (C1), Blackdragon_97 (C1), Blubba_90 (C1), BobaPhatt_98 (C1), Bonray_101 (C1), Bowman_103 (C1), Bread_101 (C1), Breeniome_100 (C1), Burrough_101 (C1), Bxz1_99 (C1), Cactojaque_96 (C1), Cali_97 (C1), Cane17_90 (C1), Capablanca_103 (C1), Caravan_96 (C1), Catera_98 (C1), Chargie21_98 (C1), CharlieB_97 (C1), ChaylaJr_96 (C1), ChickenPhender_97 (C1), Chomp_100 (C1), CindyLou_102 (C1), Colt_91 (C1), Concombre_108 (C1), DTDevon_102 (C1), Daffodil_106 (C1), Dandelion_108 (C1), Darko_101 (C1), DeejaClivia_90 (C1), Delilah_101 (C1), Delylah_104 (C1), Demodog_108 (C1), Derek_101 (C1), Dessert_101 (C1), Dietrick_93 (C1), DirtMonster_95 (C1), Domi_95 (C1), DrPhinkDaddy_100 (C1), Drazdys_100 (C1), Duckfeet_94 (C1), ET08_90 (C1), EasyJones_104 (C1), EggyFarm_109 (C1), EmToTheThree_104 (C1), EmmaElysia_101 (C1), Erdmann_102 (C1), ErnieJ_97 (C1), Essence_98 (C1), Ewok_102 (C1), Fixie_94 (C1), Flabslab_95 (C1), Fludd_102 (C1), Fongie_99 (C1), FoxtrotP1_101 (C1), FrayBell_106 (C1), FudgeTart_101 (C1), Gabriel_102 (C1), Ghost_100 (C1), Gizmo_105 (C1), GlutenPhree_102 (C1), GoldenSnow_105 (C1), Grasshills_108 (C1), Grungle_89 (C1), Guwapp_100 (C1), Halldule_95 (C1), HyRo_93 (C1), I3_107 (C1), IkeLoa_95 (C1), InigoMontoya_102 (C1), InterFolia_109 (C1), Iota_96 (C1), Issimir_100 (C1), Izajani_101 (C1), Janiyra_103 (C1), JayJay_107 (C1), Jaygup_101 (C1), Jedediah_104 (C1), Jemmno_101 (C1), Jessibeth14_100 (C1), Jezreel_101 (C1), JigglyPuff_109 (C1), JulietS_95 (C1), JustHall_98 (C1), Kamryn_101 (C1), Kboogie_105 (C1), Khaleesi_100 (C1), Koguma_98 (C1), LRRHood_96 (C1), Labradorite_102 (C1), Latch_101 (C1), Lee7_104 (C1), Lethe_100 (C1), LinStu_101 (C1), Littleton_101 (C1), Loanshark_101 (C1), LolaVinca_102 (C1), LookingGlass_102 (C1), LordLeafolot_106 (C1), Lukilu_92 (C1), Lunareta_100 (C1), Maby2021_101 (C1), Maguvora_106 (C1), Mangeria_101 (C1), Matsumoto_99 (C1), Maturis_99 (C1), McGee_103 (C1), McWolfish_99 (C1), Megamind_100 (C1), Melpomini_95 (C1), MikeLiesIn_102 (C1), Mikro_99 (C1), MoMoMixon_102 (C1), Moby_92 (C1), Moiqah_92 (C1), Momo_100 (C1), Montpel_100 (C1), Morizzled23_101 (C1), Naija_100 (C1), Napoleon13_97 (C1), Nappy_104 (C1), Naval22_109 (C1), NedWong_102 (C1), Ngannou_97 (C1), Nidhogg_102 (C1), NoodleTree_108 (C1), Norm_102 (C1), NuevoMundo_107 (C1), OrediggerDelux_104 (C1), ParkTD_102 (C1), Patter_101 (C1), PharkleMinkus_104 (C1), Phlegm_103 (C1), Phox_98 (C1), Phusco_101 (C1), Pier_105 (C1), Pinkcreek_92 (C1), Pio_105 (C1), Pivoine_100 (C1), Pleione_104 (C1), Primadonna_95 (C1), Puhon_105 (C1), Pupusa_107 (C1), PurduePete_101 (C1), QBert_95 (C1), Quasimodo_102 (C1), Rabinovish_99 (C1), Rahel_100 (C1), RoMag_96 (C1), Rocha_100 (C1), Ronan_95 (C1), Roots515_100 (C1), SVoro_99 (C1), Salacia_105 (C1), Sauce_102 (C1), ScoobyDoobyDoo_226 (C2), ScottMcG_98 (C1), Sebata_103 (C1), Shaqnato_94 (C1), Shelob_103 (C1), ShiaLabeouf_100 (C1), Shifa_90 (C1), Shnickers_101 (C1), Shrimp_101 (C1), SilverDipper_102 (C1), SiwenD96_103 (C1), SmallFry_101 (C1), SoilZilla_97 (C1), Spec_98 (C1), Specks_106 (C1), Sprinklers_97 (C1), Spud_101 (C1), SrishMeg2525_100 (C1), StephanieG_100 (C1), StubbySaigey_104 (C1), Stubby_94 (C1), Substance289_99 (C1), Tainan_105 (C1), Teardrop_100 (C1), TinyTim_101 (C1), Tonenili_116 (C1), Tortoise16_98 (C1), Trinitium_98 (C1), Turret_96 (C1), Tyke_102 (C1), ValleyTerrace_101 (C1), Vortrix_115 (C1), Wally_100 (C1), Willis_102 (C1), Yassified_98 (C1), YemiJoy2021_102 (C1), YoungMoneyMata_102 (C1), Yucca_101

(C1), Zalkecks_102 (C1), Zeenon_103 (C1), ZygoTaiga_100 (C1),

Start 37:
• Found in 13 of 650 (2.0%) of genes in pham
• Manual Annotations of this start: 3 of 585
• Called 23.1% of time when present
• Phage (with cluster) where this start called: Puppers_48 (CD), SDcharge11_47 (B1), Widow_49 (CD),

Start 38:
• Found in 3 of 650 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 585
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Greely_236 (C2), Myrna_229 (C2), Phabba_239 (C2),

Start 41:
• Found in 1 of 650 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 585
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Saguaro_48 (B7),

Start 45:
• Found in 322 of 650 (49.5%) of genes in pham
• Manual Annotations of this start: 228 of 585
• Called 75.8% of time when present
• Phage (with cluster) where this start called: ABU_48 (B1), AbsoluteMadLad_46 (B1), Adriana_48 (B1), Aelin_46 (B1), AltPhacts_47 (B1), Altwerkus_46 (B1), Anderson_47 (B1), Andre_48 (B1), AngelCake_47 (B1), Antonia_46 (B1), Aonishiki_47 (B1), Badfish_48 (B1), BatteryCK_46 (B1), Beaglebox_46 (B1), Bishoperium_46 (B1), BlackStallion_48 (B1), BlacksBerry_46 (B1), BlueHusk_47 (B1), Bluephacebaby_46 (B1), Boehler_47 (B1), BoogieWoogie_47 (B1), Brilliant_47 (B1), Buckeye_47 (B1), Burr_46 (B1), CamL_47 (B1), CampRoach_48 (B1), Cannibal_47 (B1), Carthage_45 (B1), Chaelin_47 (B1), Charles1_47 (B1), CharlieGBrown_46 (B1), Cher_46 (B1), Childish_46 (B1), Chorkpop_47 (B1), Chuni_47 (B1), Chunky_47 (B1), Chute_47 (B1), Cobra_47 (B1), Cornbread_46 (B1), Cornobble_46 (B1), Cosmolli16_46 (B1), Craff_48 (B1), Crownjwl_47 (B1), DaddyDaniels_47 (B1), Daffy_47 (B1), Daka_48 (B1), Dati_47 (B1), DelRivs_46 (B1), Derpp_46 (B1), Dice_46 (B1), Dingo_47 (B1), Dione_46 (B1), DirtJuice_47 (B1), Doddsville_47 (B1), DolOn_50 (B1), DonSanchon_46 (B1), DuchessDung_46 (B1), Duggie_46 (B1), Durga_48 (B1), ElvisPhasley_48 (B1), EmGer13_47 (B1), Emiris_48 (B1), EmpTee_47 (B1), Eremos_47 (B1), Etaye_47 (B1), Eugenia_47 (B1), FleetyMac_47 (B1), Fozzie_46 (B1), Frankicide_47 (B1), FremontTroll_46 (B1), Freya_46 (B1), FriarPreacher_46 (B1), Fringe_48 (B1), FugateOSU_46 (B1), Gareth_46 (B1), GeneCoco_47 (B1), Gophee_47 (B1), Grand2040_46 (B1), GreenChile_47 (B1), Gwennie1_47 (B1), Gwilliam_47 (B1), HSavage_47 (B1), Haimas_47 (B1), Haleema_46 (B1), Hamish_47 (B1), Hartsy_47 (B1), Hekos_44 (B1), Held_47 (B1), HenryJackson_46 (B1), Hetaeria_47 (B1), HighStump_47 (B1), Hocus_46 (B1), HogWash_47 (B1), Horchata_47 (B1), Inchworm_48 (B1), Iridessa_47 (B1), Iridoclysis_47 (B1), JDog_46 (B1), JakeO_46 (B1), JangoPhett_47 (B1), Jbug01_47 (B1), Jesabah_47 (B1), Jillium_46 (B1), Jiminy_46 (B1), Jiraiya_46 (B1), KLucky39_47 (B1), Kahve_46 (B1), Kailash_47 (B1), Karn_46 (B1), Katniss_48 (B1), Keitherie_47 (B1), Khan1_46 (B1), Kimbrough_47 (B1), KingTut_38 (B1), KingVeVeVe_47 (B1), Kloppinator_47 (B1),

Kwadwo_46 (B1), Kwksand96_46 (B1), Labeouficaum_46 (B1), Larson_48 (B1), LasagnaCat_48 (B1), Lasso_47 (B1), Lego3393_46 (B1), Legolas_47 (B1), LeiMonet_47 (B1), LemonSlice_47 (B1), Longacauda_46 (B1), LostAndPhound_46 (B1), LuckyMarjie_46 (B1), Lulwa_47 (B1), Lumine_46 (B1), MRabcd_46 (B1), Mag7_46 (B1), Magic8_47 (B1), Mana_46 (B1), Maru_46 (B1), Matalotodo_47 (B1), Mecca_46 (B1), Megamind20_47 (B1), MelsMeow_47 (B1), Mesh1_47 (B1), Mesmerelda_46 (B1), MichaelPhcott_46 (B1), Mikota_47 (B1), MiniBoss_47 (B1), MitKao_47 (B1), Morgushi_47 (B1), Morty_48 (B1), MrPhizzler_47 (B1), Mulan_47 (B1), Mutante_46 (B1), Nathan_47 (B1), Nehme_46 (B1), NiaNia_49 (B1), Nicole21_47 (B1), Numberten_47 (B1), Olak_46 (B1), Oline_46 (B1), Omniscient_47 (B1), OneBrain_48 (B1), Orfeu_46 (B1), Orion_48 (B1), Orwigg_46 (B1), PG1_48 (B1), Pacifista_46 (B1), PallasAthena_46 (B1), Phamished_48 (B1), Phareon_47 (B1), PhatCats2014_48 (B1), PhatLouie_47 (B1), Pherdinand_48 (B1), PhrodoBaggins_47 (B1), Phunky_47 (B1), Piglet_0046 (B1), PinheadLarry_47 (B1), Pinkman_46 (B1), Placalicious_46 (B1), Plata_46 (B1), Plmatters_47 (B1), Podrick_47 (B1), Pops_47 (B1), Potter_46 (B1), Prickles_47 (B1), ProfessorX_47 (B1), QueenBeane_47 (B1), Quisquiliae_47 (B1), RedMaple_47 (B1), RedRaider89_48 (B1), Ricotta_46 (B1), Riggan_47 (B1), Rimu_47 (B1), Robyn_46 (B1), Roliet_47 (B1), Roscoe_48 (B1), Salazzle_47 (B1), SallyH_48 (B1), Samaymay_47 (B1), SassyCat97_46 (B1), Schadenfreude_46 (B1), Scoot17C_48 (B1), Scrick_47 (B1), Serendipity_47 (B1), ShadowBud_47 (B1), Sheila_47 (B1), ShiVal_47 (B1), Simielle_46 (B1), SirBeauregard_47 (B1), Skippy_47 (B1), Slatt_47 (B1), Soile_47 (B1), Solosis_46 (B1), Sophia_46 (B1), Soto_47 (B1), Spartan300_47 (B1), Squiggle_47 (B1), Struggle_46 (B1), Suffolk_47 (B1), Surely_47 (B1), Swiphy_47 (B1), Swish_48 (B1), Taraxa_47 (B1), Telesworld_46 (B1), Thora_47 (B1), Timmi_46 (B1), TomBombadil_47 (B1), Tomlarah_47 (B1), Toni_46 (B1), Tooj_47 (B1), True_46 (B1), TyrionL_46 (B1), UAch1_47 (B1), Usavi_47 (B1), Valjean_47 (B1), Veritas_46 (B1), Virapocalypse_47 (B1), Virgeve_46 (B1), Wallhey_46 (B1), Weher20_47 (B1), Windsor_46 (B1), Yoshand_48 (B1), YouGoGlencoco_47 (B1), Zaider_48 (B1), Zelda_47 (B1), Zonia_47 (B1),

Start 52:
• Found in 13 of 650 (2.0%) of genes in pham
• Manual Annotations of this start: 2 of 585
• Called 15.4% of time when present
• Phage (with cluster) where this start called: Merry_ (EC), Sunny_ (EC),

Start 54:
• Found in 11 of 650 (1.7%) of genes in pham
• Manual Annotations of this start: 5 of 585
• Called 45.5% of time when present
• Phage (with cluster) where this start called: Aleemily_150 (DZ), Cafasso_152 (DZ), ModicumRichard_152 (DZ), Morgana_159 (DZ), ObLaDi_152 (DZ),

Start 57:
• Found in 6 of 650 (0.9%) of genes in pham
• Manual Annotations of this start: 6 of 585
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Belfort_257 (BK1), Comrade_252 (BK1), Karp_256 (BK1), SparkleGoddess_256 (BK1), Stigma_254 (BK1), Westy_258 (BK1),

Start 60:
• Found in 14 of 650 (2.2%) of genes in pham

• Manual Annotations of this start: 1 of 585
• Called 7.1% of time when present
• Phage (with cluster) where this start called: Gustav_54 (CD),

Summary by clusters:

There are 13 clusters represented in this pham: H1, EC, CD, B4, B7, DZ, B1, B3, C2, C1, DQ, DR, BK1,

Info for manual annotations of cluster B1:
•Start number 25 was manually annotated 63 times for cluster B1.
•Start number 27 was manually annotated 3 times for cluster B1.
•Start number 28 was manually annotated 1 time for cluster B1.
•Start number 37 was manually annotated 1 time for cluster B1.
•Start number 45 was manually annotated 228 times for cluster B1.

Info for manual annotations of cluster B3:
•Start number 14 was manually annotated 1 time for cluster B3.
•Start number 21 was manually annotated 14 times for cluster B3.
•Start number 28 was manually annotated 37 times for cluster B3.

Info for manual annotations of cluster B4:
•Start number 31 was manually annotated 2 times for cluster B4.

Info for manual annotations of cluster B7:
•Start number 41 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster BK1:
•Start number 57 was manually annotated 6 times for cluster BK1.

Info for manual annotations of cluster C1:
•Start number 12 was manually annotated 6 times for cluster C1.
•Start number 36 was manually annotated 186 times for cluster C1.

Info for manual annotations of cluster C2:
•Start number 36 was manually annotated 1 time for cluster C2.
•Start number 38 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster CD:
•Start number 27 was manually annotated 1 time for cluster CD.
•Start number 37 was manually annotated 2 times for cluster CD.
•Start number 60 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DQ:
•Start number 34 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster DR:
•Start number 35 was manually annotated 11 times for cluster DR.

Info for manual annotations of cluster DZ:
•Start number 54 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster EC:

•Start number 52 was manually annotated 2 times for cluster EC.

Info for manual annotations of cluster H1:
•Start number 34 was manually annotated 10 times for cluster H1.

Gene Information:

Gene: ABU_48 Start: 40410, Stop: 39850, Start Num: 45
Candidate Starts for ABU_48:
(Start: 25 @40494 has 63 MA's), (Start: 27 @40488 has 4 MA's), (Start: 28 @40485 has 38 MA's), (Start: 45 @40410 has 228 MA's), (56, 40341), (58, 40338), (59, 40335), (71, 40281), (120, 40068),

Gene: Abinghost_45 Start: 40228, Stop: 39506, Start Num: 21
Candidate Starts for Abinghost_45:
(Start: 21 @40228 has 14 MA's), (Start: 28 @40204 has 38 MA's), (43, 40132), (56, 40051), (59, 40045), (76, 39955), (83, 39916), (96, 39880), (106, 39823), (110, 39805), (119, 39745), (127, 39700), (132, 39664), (138, 39631), (142, 39598), (147, 39565), (150, 39526),

Gene: Ablatia_100 Start: 50692, Stop: 51324, Start Num: 36
Candidate Starts for Ablatia_100:
(Start: 36 @50692 has 187 MA's), (111, 51031), (122, 51109), (140, 51217), (155, 51319),

Gene: AbsoluteMadLad_46 Start: 40287, Stop: 39727, Start Num: 45
Candidate Starts for AbsoluteMadLad_46:
(Start: 25 @40371 has 63 MA's), (Start: 27 @40365 has 4 MA's), (Start: 28 @40362 has 38 MA's), (Start: 45 @40287 has 228 MA's), (56, 40218), (58, 40215), (59, 40212), (71, 40158), (120, 39945), (153, 39738),

Gene: Ading_101 Start: 51076, Stop: 51708, Start Num: 36
Candidate Starts for Ading_101:
(Start: 12 @50989 has 6 MA's), (Start: 36 @51076 has 187 MA's), (111, 51415), (122, 51493), (140, 51601), (155, 51703),

Gene: Adlitam_101 Start: 51093, Stop: 51725, Start Num: 36
Candidate Starts for Adlitam_101:
(Start: 12 @51006 has 6 MA's), (Start: 36 @51093 has 187 MA's), (111, 51432), (122, 51510), (140, 51618), (155, 51720),

Gene: Adriana_48 Start: 40408, Stop: 39848, Start Num: 45
Candidate Starts for Adriana_48:
(Start: 25 @40492 has 63 MA's), (Start: 27 @40486 has 4 MA's), (Start: 28 @40483 has 38 MA's), (Start: 45 @40408 has 228 MA's), (56, 40339), (58, 40336), (59, 40333), (71, 40279), (120, 40066),

Gene: Aelin_46 Start: 39839, Stop: 39279, Start Num: 45
Candidate Starts for Aelin_46:
(Start: 25 @39923 has 63 MA's), (Start: 27 @39917 has 4 MA's), (Start: 28 @39914 has 38 MA's), (Start: 45 @39839 has 228 MA's), (56, 39770), (58, 39767), (59, 39764), (104, 39599), (120, 39497), (153, 39290),

Gene: Akoma_45 Start: 40208, Stop: 39510, Start Num: 28
Candidate Starts for Akoma_45:

(3, 40454), (4, 40388), (10, 40277), (Start: 14 @40259 has 1 MA's), (16, 40253), (Start: 28 @40208 has 38 MA's), (43, 40136), (56, 40055), (59, 40049), (76, 39959), (83, 39920), (96, 39884), (106, 39827), (110, 39809), (119, 39749), (127, 39704), (132, 39668), (138, 39635), (142, 39602), (147, 39569), (150, 39530),

Gene: AksarBAT_40 Start: 34482, Stop: 33889, Start Num: 28
Candidate Starts for AksarBAT_40:
(1, 34971), (2, 34806), (9, 34560), (17, 34527), (Start: 25 @34491 has 63 MA's), (Start: 28 @34482 has 38 MA's), (Start: 35 @34452 has 11 MA's), (51, 34383), (70, 34296), (90, 34221), (118, 34131), (133, 34044), (150, 33909),

Gene: AlanGrant_44 Start: 41068, Stop: 40448, Start Num: 31
Candidate Starts for AlanGrant_44:
(Start: 31 @41068 has 2 MA's), (58, 40942), (65, 40909), (72, 40882), (77, 40849), (102, 40774), (104, 40768), (117, 40702), (131, 40621), (146, 40528), (153, 40459),

Gene: Aleemily_150 Start: 79028, Stop: 78519, Start Num: 54
Candidate Starts for Aleemily_150:
(40, 79109), (47, 79070), (Start: 54 @79028 has 5 MA's), (64, 78986), (84, 78881), (99, 78836), (117, 78764), (138, 78647), (148, 78563),

Gene: Aleia_47 Start: 39928, Stop: 39290, Start Num: 25
Candidate Starts for Aleia_47:
(Start: 25 @39928 has 63 MA's), (Start: 27 @39922 has 4 MA's), (Start: 28 @39919 has 38 MA's), (Start: 45 @39844 has 228 MA's), (56, 39781), (58, 39778), (59, 39775), (71, 39721), (120, 39508), (153, 39301),

Gene: Alice_94 Start: 49991, Stop: 50623, Start Num: 36
Candidate Starts for Alice_94:
(Start: 36 @49991 has 187 MA's), (111, 50330), (122, 50408), (140, 50516), (155, 50618),

Gene: AltPhacts_47 Start: 40259, Stop: 39699, Start Num: 45
Candidate Starts for AltPhacts_47:
(Start: 37 @40301 has 3 MA's), (Start: 45 @40259 has 228 MA's), (56, 40190), (58, 40187), (59, 40184), (120, 39917), (134, 39851), (153, 39710),

Gene: Altwerkus_46 Start: 39966, Stop: 39406, Start Num: 45
Candidate Starts for Altwerkus_46:
(Start: 25 @40050 has 63 MA's), (Start: 27 @40044 has 4 MA's), (Start: 28 @40041 has 38 MA's), (Start: 45 @39966 has 228 MA's), (56, 39897), (58, 39894), (59, 39891), (104, 39726), (120, 39624), (153, 39417),

Gene: Amataga_101 Start: 50338, Stop: 50970, Start Num: 36
Candidate Starts for Amataga_101:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (111, 50677), (122, 50755), (140, 50863), (155, 50965),

Gene: AnarQue_42 Start: 35868, Stop: 35293, Start Num: 35
Candidate Starts for AnarQue_42:
(Start: 35 @35868 has 11 MA's), (46, 35829), (69, 35718), (80, 35679), (114, 35556), (117, 35544), (118, 35535), (124, 35493), (125, 35490), (128, 35478),

Gene: Anderson_47 Start: 40265, Stop: 39705, Start Num: 45

Candidate Starts for Anderson_47:
(Start: 25 @40349 has 63 MA's), (Start: 27 @40343 has 4 MA's), (Start: 28 @40340 has 38 MA's), (Start: 45 @40265 has 228 MA's), (56, 40196), (58, 40193), (59, 40190), (71, 40136), (120, 39923), (153, 39716),

Gene: Andre_48 Start: 40402, Stop: 39842, Start Num: 45
Candidate Starts for Andre_48:
(Start: 25 @40486 has 63 MA's), (Start: 27 @40480 has 4 MA's), (Start: 28 @40477 has 38 MA's), (Start: 45 @40402 has 228 MA's), (56, 40333), (58, 40330), (59, 40327), (120, 40060),

Gene: AngelCake_47 Start: 40287, Stop: 39727, Start Num: 45
Candidate Starts for AngelCake_47:
(Start: 25 @40371 has 63 MA's), (Start: 27 @40365 has 4 MA's), (Start: 28 @40362 has 38 MA's), (Start: 45 @40287 has 228 MA's), (56, 40218), (58, 40215), (59, 40212), (71, 40158), (120, 39945), (153, 39738),

Gene: Antonia_46 Start: 39839, Stop: 39279, Start Num: 45
Candidate Starts for Antonia_46:
(Start: 25 @39923 has 63 MA's), (Start: 27 @39917 has 4 MA's), (Start: 28 @39914 has 38 MA's), (Start: 45 @39839 has 228 MA's), (56, 39770), (58, 39767), (59, 39764), (104, 39599), (120, 39497), (153, 39290),

Gene: Aonishiki_47 Start: 40308, Stop: 39748, Start Num: 45
Candidate Starts for Aonishiki_47:
(Start: 25 @40392 has 63 MA's), (Start: 27 @40386 has 4 MA's), (Start: 28 @40383 has 38 MA's), (Start: 45 @40308 has 228 MA's), (56, 40239), (58, 40236), (59, 40233), (71, 40179), (104, 40068), (120, 39966), (153, 39759),

Gene: Apizium_47 Start: 40250, Stop: 39606, Start Num: 25
Candidate Starts for Apizium_47:
(Start: 25 @40250 has 63 MA's), (Start: 27 @40244 has 4 MA's), (Start: 28 @40241 has 38 MA's), (Start: 45 @40166 has 228 MA's), (56, 40097), (58, 40094), (59, 40091), (71, 40037), (120, 39824), (153, 39617),

Gene: ArcherS7_100 Start: 50656, Stop: 51288, Start Num: 36
Candidate Starts for ArcherS7_100:
(Start: 12 @50569 has 6 MA's), (Start: 36 @50656 has 187 MA's), (111, 50995), (122, 51073), (140, 51181), (155, 51283),

Gene: Ashraf_47 Start: 40051, Stop: 39407, Start Num: 25
Candidate Starts for Ashraf_47:
(Start: 25 @40051 has 63 MA's), (Start: 27 @40045 has 4 MA's), (Start: 28 @40042 has 38 MA's), (Start: 45 @39967 has 228 MA's), (56, 39898), (58, 39895), (59, 39892), (71, 39838), (120, 39625),

Gene: Asterius_104 Start: 51325, Stop: 51963, Start Num: 36
Candidate Starts for Asterius_104:
(Start: 36 @51325 has 187 MA's), (111, 51670), (122, 51748), (140, 51856), (155, 51958),

Gene: Astraea_98 Start: 50020, Stop: 50739, Start Num: 12
Candidate Starts for Astraea_98:
(Start: 12 @50020 has 6 MA's), (Start: 36 @50107 has 187 MA's), (111, 50446), (122, 50524), (140, 50632), (155, 50734),

Gene: Athena_46 Start: 40955, Stop: 40257, Start Num: 28
Candidate Starts for Athena_46:
(3, 41201), (4, 41135), (10, 41024), (Start: 14 @41006 has 1 MA's), (16, 41000), (Start: 28 @40955 has 38 MA's), (43, 40883), (56, 40802), (59, 40796), (76, 40706), (83, 40667), (96, 40631), (106, 40574), (110, 40556), (119, 40496), (127, 40451), (132, 40415), (138, 40382), (142, 40349), (147, 40316), (150, 40277),

Gene: Atlantean_100 Start: 50338, Stop: 50970, Start Num: 36
Candidate Starts for Atlantean_100:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (111, 50677), (122, 50755), (140, 50863), (155, 50965),

Gene: Audrey_45 Start: 40228, Stop: 39506, Start Num: 21
Candidate Starts for Audrey_45:
(Start: 21 @40228 has 14 MA's), (Start: 28 @40204 has 38 MA's), (43, 40132), (56, 40051), (59, 40045), (73, 39982), (76, 39955), (83, 39916), (96, 39880), (101, 39856), (106, 39823), (110, 39805), (119, 39745), (127, 39700), (132, 39664), (136, 39640), (138, 39631), (142, 39598), (147, 39565), (150, 39526),

Gene: Audrick_103 Start: 50317, Stop: 50949, Start Num: 36
Candidate Starts for Audrick_103:
(Start: 12 @50230 has 6 MA's), (Start: 36 @50317 has 187 MA's), (111, 50656), (122, 50734), (140, 50842), (155, 50944),

Gene: Ava3_102 Start: 51251, Stop: 51883, Start Num: 36
Candidate Starts for Ava3_102:
(Start: 36 @51251 has 187 MA's), (111, 51590), (140, 51776), (155, 51878),

Gene: Azuria_46 Start: 40371, Stop: 39727, Start Num: 25
Candidate Starts for Azuria_46:
(Start: 25 @40371 has 63 MA's), (Start: 27 @40365 has 4 MA's), (Start: 28 @40362 has 38 MA's), (Start: 45 @40287 has 228 MA's), (56, 40218), (58, 40215), (59, 40212), (71, 40158), (104, 40047), (120, 39945), (153, 39738),

Gene: Babyland_102 Start: 50426, Stop: 51058, Start Num: 36
Candidate Starts for Babyland_102:
(Start: 36 @50426 has 187 MA's), (111, 50765), (122, 50843), (140, 50951), (155, 51053),

Gene: BackyardAgain_98 Start: 50256, Stop: 50888, Start Num: 36
Candidate Starts for BackyardAgain_98:
(Start: 36 @50256 has 187 MA's), (111, 50595), (122, 50673), (140, 50781), (155, 50883),

Gene: BadAgartude_97 Start: 51776, Stop: 52408, Start Num: 36
Candidate Starts for BadAgartude_97:
(Start: 12 @51689 has 6 MA's), (Start: 36 @51776 has 187 MA's), (111, 52115), (122, 52193), (140, 52301), (155, 52403),

Gene: Badfish_48 Start: 40433, Stop: 39873, Start Num: 45
Candidate Starts for Badfish_48:
(Start: 25 @40517 has 63 MA's), (Start: 27 @40511 has 4 MA's), (Start: 28 @40508 has 38 MA's), (Start: 45 @40433 has 228 MA's), (56, 40364), (58, 40361), (59, 40358), (71, 40304), (120, 40091),

Gene: Baloo_45 Start: 40231, Stop: 39509, Start Num: 21

Candidate Starts for Baloo_45:
(Start: 21 @40231 has 14 MA's), (Start: 28 @40207 has 38 MA's), (43, 40135), (56, 40054), (59, 40048), (73, 39985), (76, 39958), (83, 39919), (96, 39883), (101, 39859), (106, 39826), (110, 39808), (119, 39748), (127, 39703), (132, 39667), (138, 39634), (142, 39601), (147, 39568), (150, 39529),

Gene: BananaFence_100 Start: 51510, Stop: 52142, Start Num: 36
Candidate Starts for BananaFence_100:
(Start: 36 @51510 has 187 MA's), (111, 51849), (122, 51927), (140, 52035), (155, 52137),

Gene: Bangla1971_102 Start: 50786, Stop: 51418, Start Num: 36
Candidate Starts for Bangla1971_102:
(Start: 12 @50699 has 6 MA's), (Start: 36 @50786 has 187 MA's), (111, 51125), (122, 51203), (140, 51311), (155, 51413),

Gene: Banjo_46 Start: 40048, Stop: 39410, Start Num: 25
Candidate Starts for Banjo_46:
(Start: 25 @40048 has 63 MA's), (Start: 27 @40042 has 4 MA's), (Start: 28 @40039 has 38 MA's), (Start: 45 @39964 has 228 MA's), (56, 39901), (58, 39898), (59, 39895), (71, 39841), (120, 39628), (134, 39562), (153, 39421),

Gene: Basato_48 Start: 40633, Stop: 39989, Start Num: 25
Candidate Starts for Basato_48:
(Start: 25 @40633 has 63 MA's), (Start: 27 @40627 has 4 MA's), (Start: 28 @40624 has 38 MA's), (Start: 45 @40549 has 228 MA's), (56, 40480), (58, 40477), (59, 40474), (71, 40420), (120, 40207), (153, 40000),

Gene: Basquiat_98 Start: 50225, Stop: 50857, Start Num: 36
Candidate Starts for Basquiat_98:
(Start: 36 @50225 has 187 MA's), (111, 50564), (122, 50642), (140, 50750), (155, 50852),

Gene: BatteryCK_46 Start: 39892, Stop: 39332, Start Num: 45
Candidate Starts for BatteryCK_46:
(Start: 25 @39976 has 63 MA's), (Start: 27 @39970 has 4 MA's), (Start: 28 @39967 has 38 MA's), (Start: 45 @39892 has 228 MA's), (58, 39820), (59, 39817), (71, 39763), (104, 39652), (120, 39550), (153, 39343),

Gene: Beaglebox_46 Start: 39985, Stop: 39431, Start Num: 45
Candidate Starts for Beaglebox_46:
(Start: 25 @40069 has 63 MA's), (Start: 27 @40063 has 4 MA's), (Start: 28 @40060 has 38 MA's), (Start: 45 @39985 has 228 MA's), (56, 39922), (58, 39919), (59, 39916), (71, 39862), (120, 39649), (134, 39583), (153, 39442),

Gene: BeanWater_93 Start: 51106, Stop: 51738, Start Num: 36
Candidate Starts for BeanWater_93:
(Start: 36 @51106 has 187 MA's), (111, 51445), (122, 51523), (140, 51631), (155, 51733),

Gene: Beckerton_40 Start: 37541, Stop: 38173, Start Num: 34
Candidate Starts for Beckerton_40:
(Start: 34 @37541 has 11 MA's), (51, 37628), (Start: 52 @37637 has 2 MA's), (Start: 60 @37670 has 1 MA's), (69, 37715), (117, 37907), (118, 37916), (127, 37970), (133, 38009), (138, 38039), (149, 38135), (153, 38159),

Gene: Belfort_257 Start: 123112, Stop: 123585, Start Num: 57

Candidate Starts for Belfort_257:
(53, 123094), (Start: 57 @123112 has 6 MA's), (87, 123238), (88, 123241), (99, 123274), (118, 123349), (122, 123385), (135, 123442), (138, 123460), (150, 123565),

Gene: Belieber_97 Start: 50572, Stop: 51204, Start Num: 36
Candidate Starts for Belieber_97:
(Start: 36 @50572 has 187 MA's), (111, 50911), (122, 50989), (140, 51097), (155, 51199),

Gene: Ben11_44 Start: 40026, Stop: 39328, Start Num: 28
Candidate Starts for Ben11_44:
(Start: 21 @40050 has 14 MA's), (Start: 28 @40026 has 38 MA's), (43, 39954), (56, 39873), (59, 39867), (76, 39777), (83, 39738), (96, 39702), (106, 39645), (110, 39627), (119, 39567), (127, 39522), (132, 39486), (138, 39453), (142, 39420), (147, 39387), (150, 39348),

Gene: Bernardo_46 Start: 40776, Stop: 40054, Start Num: 21
Candidate Starts for Bernardo_46:
(Start: 21 @40776 has 14 MA's), (Start: 28 @40752 has 38 MA's), (43, 40680), (56, 40599), (59, 40593), (76, 40503), (83, 40464), (96, 40428), (106, 40371), (110, 40353), (119, 40293), (127, 40248), (132, 40212), (136, 40188), (138, 40179), (142, 40146), (147, 40113), (150, 40074),

Gene: Bezza_95 Start: 50531, Stop: 51163, Start Num: 36
Candidate Starts for Bezza_95:
(Start: 36 @50531 has 187 MA's), (111, 50870), (122, 50948), (140, 51056), (155, 51158),

Gene: BigCity_109 Start: 53767, Stop: 54399, Start Num: 36
Candidate Starts for BigCity_109:
(Start: 36 @53767 has 187 MA's), (111, 54106), (122, 54184), (140, 54292), (155, 54394),

Gene: Bigswole_106 Start: 54293, Stop: 54931, Start Num: 36
Candidate Starts for Bigswole_106:
(6, 54182), (Start: 36 @54293 has 187 MA's), (111, 54638), (122, 54716), (140, 54824), (155, 54926),

Gene: Bipolarisk_100 Start: 51503, Stop: 52141, Start Num: 36
Candidate Starts for Bipolarisk_100:
(Start: 36 @51503 has 187 MA's), (111, 51848), (122, 51926), (140, 52034), (155, 52136),

Gene: Bishoperium_46 Start: 39979, Stop: 39419, Start Num: 45
Candidate Starts for Bishoperium_46:
(Start: 25 @40063 has 63 MA's), (Start: 27 @40057 has 4 MA's), (Start: 28 @40054 has 38 MA's), (Start: 45 @39979 has 228 MA's), (56, 39910), (58, 39907), (59, 39904), (71, 39850), (120, 39637), (153, 39430),

Gene: BlackStallion_48 Start: 40419, Stop: 39859, Start Num: 45
Candidate Starts for BlackStallion_48:
(Start: 45 @40419 has 228 MA's), (56, 40350), (58, 40347), (59, 40344), (71, 40290), (120, 40077),

Gene: Blackbrain_96 Start: 49803, Stop: 50435, Start Num: 36
Candidate Starts for Blackbrain_96:
(Start: 36 @49803 has 187 MA's), (111, 50142), (122, 50220), (140, 50328), (155, 50430),

Gene: Blackdragon_97 Start: 50933, Stop: 51565, Start Num: 36
Candidate Starts for Blackdragon_97:
(Start: 36 @50933 has 187 MA's), (111, 51272), (122, 51350), (140, 51458), (155, 51560),

Gene: Blackpen_42 Start: 35286, Stop: 34711, Start Num: 35
Candidate Starts for Blackpen_42:
(Start: 35 @35286 has 11 MA's), (46, 35247), (69, 35136), (80, 35097), (114, 34974), (117, 34962), (118, 34953), (124, 34911), (125, 34908), (126, 34905), (128, 34896),

Gene: BlacksBerry_46 Start: 40000, Stop: 39440, Start Num: 45
Candidate Starts for BlacksBerry_46:
(Start: 25 @40084 has 63 MA's), (Start: 27 @40078 has 4 MA's), (Start: 28 @40075 has 38 MA's), (Start: 45 @40000 has 228 MA's), (56, 39931), (58, 39928), (59, 39925), (71, 39871), (120, 39658), (153, 39451),

Gene: Blubba_90 Start: 49899, Stop: 50531, Start Num: 36
Candidate Starts for Blubba_90:
(Start: 36 @49899 has 187 MA's), (111, 50238), (122, 50316), (140, 50424), (155, 50526),

Gene: BlueHusk_47 Start: 39784, Stop: 39224, Start Num: 45
Candidate Starts for BlueHusk_47:
(Start: 37 @39826 has 3 MA's), (Start: 45 @39784 has 228 MA's), (56, 39715), (58, 39712), (59, 39709), (71, 39655), (120, 39442), (153, 39235),

Gene: Bluephacebaby_46 Start: 39982, Stop: 39422, Start Num: 45
Candidate Starts for Bluephacebaby_46:
(Start: 25 @40066 has 63 MA's), (Start: 27 @40060 has 4 MA's), (Start: 28 @40057 has 38 MA's), (Start: 45 @39982 has 228 MA's), (56, 39913), (58, 39910), (59, 39907), (104, 39742), (120, 39640), (153, 39433),

Gene: BobaPhatt_98 Start: 49856, Stop: 50488, Start Num: 36
Candidate Starts for BobaPhatt_98:
(Start: 36 @49856 has 187 MA's), (111, 50195), (122, 50273), (140, 50381), (155, 50483),

Gene: BobtimousPrime_42 Start: 37459, Stop: 38091, Start Num: 34
Candidate Starts for BobtimousPrime_42:
(Start: 34 @37459 has 11 MA's), (51, 37546), (Start: 52 @37555 has 2 MA's), (Start: 54 @37567 has 5 MA's), (Start: 60 @37588 has 1 MA's), (69, 37633), (97, 37747), (117, 37825), (118, 37834), (127, 37888), (133, 37927), (138, 37957), (145, 38005), (149, 38053), (153, 38077),

Gene: Boehler_47 Start: 40288, Stop: 39728, Start Num: 45
Candidate Starts for Boehler_47:
(Start: 25 @40372 has 63 MA's), (Start: 27 @40366 has 4 MA's), (Start: 28 @40363 has 38 MA's), (Start: 45 @40288 has 228 MA's), (56, 40219), (58, 40216), (59, 40213), (71, 40159), (120, 39946), (153, 39739),

Gene: Bonray_101 Start: 51676, Stop: 52314, Start Num: 36
Candidate Starts for Bonray_101:
(Start: 36 @51676 has 187 MA's), (111, 52021), (122, 52099), (140, 52207), (155, 52309),

Gene: BoogieWoogie_47 Start: 39969, Stop: 39409, Start Num: 45
Candidate Starts for BoogieWoogie_47:
(Start: 25 @40053 has 63 MA's), (Start: 27 @40047 has 4 MA's), (Start: 28 @40044 has 38 MA's), (Start: 45 @39969 has 228 MA's), (56, 39900), (58, 39897), (59, 39894), (71, 39840), (120, 39627), (153, 39420),

Gene: Bowman_103 Start: 51243, Stop: 51875, Start Num: 36
Candidate Starts for Bowman_103:
(Start: 12 @51156 has 6 MA's), (Start: 36 @51243 has 187 MA's), (111, 51582), (122, 51660), (140, 51768), (155, 51870),

Gene: Bread_101 Start: 51337, Stop: 51969, Start Num: 36
Candidate Starts for Bread_101:
(Start: 36 @51337 has 187 MA's), (111, 51676), (122, 51754), (140, 51862), (155, 51964),

Gene: Breeniome_100 Start: 49919, Stop: 50551, Start Num: 36
Candidate Starts for Breeniome_100:
(Start: 12 @49832 has 6 MA's), (Start: 36 @49919 has 187 MA's), (111, 50258), (122, 50336), (140, 50444), (155, 50546),

Gene: Briakila_46 Start: 40974, Stop: 40276, Start Num: 28
Candidate Starts for Briakila_46:
(3, 41220), (4, 41154), (10, 41043), (Start: 14 @41025 has 1 MA's), (16, 41019), (Start: 28 @40974 has 38 MA's), (43, 40902), (56, 40821), (59, 40815), (76, 40725), (83, 40686), (96, 40650), (106, 40593), (110, 40575), (119, 40515), (127, 40470), (132, 40434), (138, 40401), (142, 40368), (147, 40335), (150, 40296),

Gene: Brilliant_47 Start: 39981, Stop: 39427, Start Num: 45
Candidate Starts for Brilliant_47:
(Start: 25 @40065 has 63 MA's), (Start: 27 @40059 has 4 MA's), (Start: 28 @40056 has 38 MA's), (Start: 45 @39981 has 228 MA's), (56, 39918), (58, 39915), (59, 39912), (71, 39858), (120, 39645), (134, 39579), (153, 39438),

Gene: Buckeye_47 Start: 40302, Stop: 39742, Start Num: 45
Candidate Starts for Buckeye_47:
(Start: 25 @40386 has 63 MA's), (Start: 27 @40380 has 4 MA's), (Start: 28 @40377 has 38 MA's), (Start: 45 @40302 has 228 MA's), (56, 40233), (58, 40230), (59, 40227), (71, 40173), (104, 40062), (120, 39960), (153, 39753),

Gene: Burr_46 Start: 39976, Stop: 39416, Start Num: 45
Candidate Starts for Burr_46:
(Start: 25 @40060 has 63 MA's), (Start: 27 @40054 has 4 MA's), (Start: 28 @40051 has 38 MA's), (Start: 45 @39976 has 228 MA's), (56, 39907), (58, 39904), (59, 39901), (71, 39847), (120, 39634), (153, 39427),

Gene: Burrough_101 Start: 51836, Stop: 52468, Start Num: 36
Candidate Starts for Burrough_101:
(Start: 36 @51836 has 187 MA's), (111, 52175), (122, 52253), (140, 52361), (155, 52463),

Gene: Bxz1_99 Start: 53274, Stop: 53906, Start Num: 36
Candidate Starts for Bxz1_99:
(Start: 36 @53274 has 187 MA's), (111, 53613), (122, 53691), (140, 53799), (155, 53901),

Gene: Cactojaque_96 Start: 49910, Stop: 50542, Start Num: 36
Candidate Starts for Cactojaque_96:
(Start: 36 @49910 has 187 MA's), (111, 50249), (122, 50327), (140, 50435), (155, 50537),

Gene: Cafasso_152 Start: 79438, Stop: 78929, Start Num: 54
Candidate Starts for Cafasso_152:

(40, 79519), (47, 79480), (Start: 54 @79438 has 5 MA's), (64, 79396), (68, 79375), (84, 79291), (99, 79246), (117, 79174), (138, 79057), (148, 78973),

Gene: CaiB_42 Start: 35854, Stop: 35279, Start Num: 35
Candidate Starts for CaiB_42:
(Start: 35 @35854 has 11 MA's), (46, 35815), (69, 35704), (80, 35665), (114, 35542), (117, 35530), (118, 35521), (124, 35479), (125, 35476), (126, 35473), (128, 35464),

Gene: Cali_97 Start: 51838, Stop: 52470, Start Num: 36
Candidate Starts for Cali_97:
(Start: 36 @51838 has 187 MA's), (111, 52177), (122, 52255), (140, 52363), (155, 52465),

Gene: CamL_47 Start: 40271, Stop: 39717, Start Num: 45
Candidate Starts for CamL_47:
(Start: 25 @40355 has 63 MA's), (Start: 27 @40349 has 4 MA's), (Start: 28 @40346 has 38 MA's), (Start: 45 @40271 has 228 MA's), (56, 40208), (58, 40205), (59, 40202), (71, 40148), (120, 39935), (134, 39869), (153, 39728),

Gene: CampRoach_48 Start: 40405, Stop: 39845, Start Num: 45
Candidate Starts for CampRoach_48:
(Start: 25 @40489 has 63 MA's), (Start: 27 @40483 has 4 MA's), (Start: 28 @40480 has 38 MA's), (Start: 45 @40405 has 228 MA's), (56, 40336), (58, 40333), (59, 40330), (71, 40276), (120, 40063),

Gene: Cane17_90 Start: 49972, Stop: 50604, Start Num: 36
Candidate Starts for Cane17_90:
(Start: 36 @49972 has 187 MA's), (111, 50311), (122, 50389), (140, 50497), (155, 50599),

Gene: Cannibal_47 Start: 40254, Stop: 39700, Start Num: 45
Candidate Starts for Cannibal_47:
(Start: 25 @40338 has 63 MA's), (Start: 27 @40332 has 4 MA's), (Start: 28 @40329 has 38 MA's), (Start: 45 @40254 has 228 MA's), (56, 40191), (58, 40188), (59, 40185), (71, 40131), (120, 39918), (134, 39852), (153, 39711),

Gene: Capablanca_103 Start: 52088, Stop: 52720, Start Num: 36
Candidate Starts for Capablanca_103:
(6, 51977), (Start: 36 @52088 has 187 MA's), (111, 52427), (122, 52505), (140, 52613), (155, 52715),

Gene: Caravan_96 Start: 51189, Stop: 51827, Start Num: 36
Candidate Starts for Caravan_96:
(Start: 36 @51189 has 187 MA's), (111, 51534), (122, 51612), (140, 51720), (155, 51822),

Gene: Carthage_45 Start: 39189, Stop: 38629, Start Num: 45
Candidate Starts for Carthage_45:
(Start: 25 @39273 has 63 MA's), (Start: 27 @39267 has 4 MA's), (Start: 28 @39264 has 38 MA's), (32, 39246), (Start: 45 @39189 has 228 MA's), (56, 39120), (58, 39117), (59, 39114), (71, 39060), (104, 38949), (120, 38847), (153, 38640),

Gene: Casbah_44 Start: 40080, Stop: 39358, Start Num: 21
Candidate Starts for Casbah_44:
(Start: 21 @40080 has 14 MA's), (Start: 28 @40056 has 38 MA's), (43, 39984), (56, 39903), (59, 39897), (76, 39807), (83, 39768), (96, 39732), (106, 39675), (110, 39657), (119, 39597), (127, 39552), (132, 39516), (138, 39483), (142, 39450), (147, 39417), (150, 39378),

Gene: Caspiboi_46 Start: 40064, Stop: 39426, Start Num: 25
Candidate Starts for Caspiboi_46:
(Start: 25 @40064 has 63 MA's), (Start: 27 @40058 has 4 MA's), (Start: 28 @40055 has 38 MA's), (Start: 45 @39980 has 228 MA's), (56, 39917), (58, 39914), (59, 39911), (71, 39857), (120, 39644), (134, 39578), (153, 39437),

Gene: Catera_98 Start: 50105, Stop: 50743, Start Num: 36
Candidate Starts for Catera_98:
(Start: 36 @50105 has 187 MA's), (111, 50450), (122, 50528), (140, 50636), (155, 50738),

Gene: Cborch11_42 Start: 37008, Stop: 37640, Start Num: 34
Candidate Starts for Cborch11_42:
(Start: 34 @37008 has 11 MA's), (51, 37095), (Start: 52 @37104 has 2 MA's), (Start: 54 @37116 has 5 MA's), (Start: 60 @37137 has 1 MA's), (69, 37182), (97, 37296), (117, 37374), (118, 37383), (127, 37437), (133, 37476), (138, 37506), (145, 37554), (149, 37602), (153, 37626),

Gene: ChaChing_45 Start: 40219, Stop: 39521, Start Num: 28
Candidate Starts for ChaChing_45:
(3, 40465), (4, 40399), (10, 40288), (Start: 14 @40270 has 1 MA's), (16, 40264), (Start: 28 @40219 has 38 MA's), (43, 40147), (56, 40066), (59, 40060), (76, 39970), (83, 39931), (96, 39895), (106, 39838), (110, 39820), (119, 39760), (127, 39715), (132, 39679), (138, 39646), (142, 39613), (147, 39580), (150, 39541),

Gene: Chaelin_47 Start: 39977, Stop: 39417, Start Num: 45
Candidate Starts for Chaelin_47:
(Start: 25 @40061 has 63 MA's), (Start: 27 @40055 has 4 MA's), (Start: 28 @40052 has 38 MA's), (Start: 45 @39977 has 228 MA's), (56, 39908), (58, 39905), (59, 39902), (71, 39848), (120, 39635), (153, 39428),

Gene: Chah_49 Start: 40516, Stop: 39872, Start Num: 25
Candidate Starts for Chah_49:
(Start: 25 @40516 has 63 MA's), (Start: 27 @40510 has 4 MA's), (Start: 28 @40507 has 38 MA's), (Start: 45 @40432 has 228 MA's), (56, 40363), (58, 40360), (59, 40357), (71, 40303), (120, 40090),

Gene: Chalmers_45 Start: 41011, Stop: 40313, Start Num: 28
Candidate Starts for Chalmers_45:
(3, 41257), (4, 41191), (10, 41080), (Start: 14 @41062 has 1 MA's), (16, 41056), (Start: 28 @41011 has 38 MA's), (43, 40939), (56, 40858), (59, 40852), (76, 40762), (83, 40723), (96, 40687), (106, 40630), (110, 40612), (119, 40552), (127, 40507), (132, 40471), (138, 40438), (142, 40405), (147, 40372), (150, 40333),

Gene: Chandler_45 Start: 40987, Stop: 40289, Start Num: 28
Candidate Starts for Chandler_45:
(3, 41233), (4, 41167), (10, 41056), (Start: 14 @41038 has 1 MA's), (16, 41032), (Start: 28 @40987 has 38 MA's), (43, 40915), (56, 40834), (59, 40828), (76, 40738), (83, 40699), (96, 40663), (106, 40606), (110, 40588), (119, 40528), (127, 40483), (132, 40447), (138, 40414), (142, 40381), (147, 40348), (150, 40309),

Gene: Chargie21_98 Start: 50225, Stop: 50857, Start Num: 36
Candidate Starts for Chargie21_98:
(Start: 36 @50225 has 187 MA's), (111, 50564), (122, 50642), (140, 50750), (155, 50852),

Gene: Charles1_47 Start: 40262, Stop: 39702, Start Num: 45

Candidate Starts for Charles1_47:
(Start: 25 @40346 has 63 MA's), (Start: 27 @40340 has 4 MA's), (Start: 28 @40337 has 38 MA's), (Start: 45 @40262 has 228 MA's), (56, 40193), (58, 40190), (59, 40187), (71, 40133), (104, 40022), (120, 39920), (153, 39713),

Gene: CharlieB_97 Start: 50240, Stop: 50872, Start Num: 36
Candidate Starts for CharlieB_97:
(Start: 36 @50240 has 187 MA's), (111, 50579), (122, 50657), (140, 50765), (155, 50867),

Gene: CharlieGBrown_46 Start: 39852, Stop: 39292, Start Num: 45
Candidate Starts for CharlieGBrown_46:
(Start: 25 @39936 has 63 MA's), (Start: 27 @39930 has 4 MA's), (Start: 28 @39927 has 38 MA's), (Start: 45 @39852 has 228 MA's), (56, 39783), (58, 39780), (59, 39777), (71, 39723), (120, 39510), (153, 39303),

Gene: ChaylaJr_96 Start: 49731, Stop: 50363, Start Num: 36
Candidate Starts for ChaylaJr_96:
(Start: 36 @49731 has 187 MA's), (111, 50070), (122, 50148), (140, 50256), (155, 50358),

Gene: CheetO_47 Start: 40366, Stop: 39722, Start Num: 25
Candidate Starts for CheetO_47:
(Start: 25 @40366 has 63 MA's), (Start: 27 @40360 has 4 MA's), (Start: 28 @40357 has 38 MA's), (Start: 45 @40282 has 228 MA's), (56, 40213), (58, 40210), (59, 40207), (71, 40153), (120, 39940), (153, 39733),

Gene: Chentzyk_45 Start: 40592, Stop: 39870, Start Num: 21
Candidate Starts for Chentzyk_45:
(Start: 21 @40592 has 14 MA's), (Start: 28 @40568 has 38 MA's), (43, 40496), (56, 40415), (59, 40409), (76, 40319), (83, 40280), (96, 40244), (106, 40187), (110, 40169), (119, 40109), (127, 40064), (132, 40028), (138, 39995), (142, 39962), (147, 39929), (150, 39890),

Gene: Cher_46 Start: 39999, Stop: 39439, Start Num: 45
Candidate Starts for Cher_46:
(Start: 25 @40083 has 63 MA's), (Start: 27 @40077 has 4 MA's), (Start: 28 @40074 has 38 MA's), (Start: 45 @39999 has 228 MA's), (56, 39930), (58, 39927), (59, 39924), (104, 39759), (120, 39657), (134, 39591), (153, 39450),

Gene: ChickenPhender_97 Start: 50034, Stop: 50666, Start Num: 36
Candidate Starts for ChickenPhender_97:
(Start: 36 @50034 has 187 MA's), (111, 50373), (122, 50451), (140, 50559), (155, 50661),

Gene: Childish_46 Start: 40002, Stop: 39442, Start Num: 45
Candidate Starts for Childish_46:
(Start: 25 @40086 has 63 MA's), (Start: 27 @40080 has 4 MA's), (Start: 28 @40077 has 38 MA's), (Start: 45 @40002 has 228 MA's), (56, 39933), (58, 39930), (59, 39927), (71, 39873), (120, 39660), (153, 39453),

Gene: Chipette_48 Start: 40576, Stop: 39932, Start Num: 25
Candidate Starts for Chipette_48:
(Start: 25 @40576 has 63 MA's), (Start: 27 @40570 has 4 MA's), (Start: 28 @40567 has 38 MA's), (Start: 45 @40492 has 228 MA's), (56, 40423), (58, 40420), (59, 40417), (71, 40363), (120, 40150), (153, 39943),

Gene: Chomp_100 Start: 51626, Stop: 52258, Start Num: 36
Candidate Starts for Chomp_100:
(Start: 12 @51539 has 6 MA's), (Start: 36 @51626 has 187 MA's), (111, 51965), (122, 52043), (140, 52151), (155, 52253),

Gene: Chorkpop_47 Start: 39998, Stop: 39438, Start Num: 45
Candidate Starts for Chorkpop_47:
(Start: 25 @40082 has 63 MA's), (Start: 27 @40076 has 4 MA's), (Start: 28 @40073 has 38 MA's), (Start: 45 @39998 has 228 MA's), (56, 39929), (58, 39926), (59, 39923), (104, 39758), (120, 39656), (153, 39449),

Gene: Chuni_47 Start: 40296, Stop: 39736, Start Num: 45
Candidate Starts for Chuni_47:
(Start: 25 @40380 has 63 MA's), (Start: 27 @40374 has 4 MA's), (Start: 28 @40371 has 38 MA's), (Start: 45 @40296 has 228 MA's), (56, 40227), (58, 40224), (59, 40221), (71, 40167), (120, 39954), (153, 39747),

Gene: Chunky_47 Start: 40285, Stop: 39725, Start Num: 45
Candidate Starts for Chunky_47:
(Start: 25 @40369 has 63 MA's), (Start: 27 @40363 has 4 MA's), (Start: 28 @40360 has 38 MA's), (Start: 45 @40285 has 228 MA's), (56, 40216), (58, 40213), (59, 40210), (71, 40156), (104, 40045), (120, 39943), (153, 39736),

Gene: Chute_47 Start: 40326, Stop: 39766, Start Num: 45
Candidate Starts for Chute_47:
(Start: 25 @40410 has 63 MA's), (Start: 27 @40404 has 4 MA's), (Start: 28 @40401 has 38 MA's), (Start: 45 @40326 has 228 MA's), (56, 40257), (58, 40254), (59, 40251), (71, 40197), (120, 39984), (153, 39777),

Gene: CindyLou_102 Start: 51667, Stop: 52299, Start Num: 36
Candidate Starts for CindyLou_102:
(Start: 12 @51580 has 6 MA's), (Start: 36 @51667 has 187 MA's), (111, 52006), (122, 52084), (140, 52192), (155, 52294),

Gene: Cleatunium_95 Start: 50237, Stop: 50956, Start Num: 12
Candidate Starts for Cleatunium_95:
(Start: 12 @50237 has 6 MA's), (Start: 36 @50324 has 187 MA's), (111, 50663), (122, 50741), (140, 50849), (155, 50951),

Gene: CloverMinnie_42 Start: 35794, Stop: 35219, Start Num: 35
Candidate Starts for CloverMinnie_42:
(Start: 35 @35794 has 11 MA's), (46, 35755), (69, 35644), (80, 35605), (114, 35482), (117, 35470), (118, 35461), (124, 35419), (125, 35416), (126, 35413),

Gene: Cobra_47 Start: 40283, Stop: 39723, Start Num: 45
Candidate Starts for Cobra_47:
(Start: 25 @40367 has 63 MA's), (Start: 27 @40361 has 4 MA's), (Start: 28 @40358 has 38 MA's), (Start: 45 @40283 has 228 MA's), (56, 40214), (58, 40211), (59, 40208), (104, 40043), (120, 39941), (153, 39734),

Gene: Colbert_47 Start: 40422, Stop: 39778, Start Num: 25
Candidate Starts for Colbert_47:

(Start: 25 @40422 has 63 MA's), (Start: 27 @40416 has 4 MA's), (Start: 28 @40413 has 38 MA's), (Start: 45 @40338 has 228 MA's), (56, 40269), (58, 40266), (59, 40263), (71, 40209), (120, 39996), (153, 39789),

Gene: Coldpizza_43 Start: 38676, Stop: 38062, Start Num: 35
Candidate Starts for Coldpizza_43:
(Start: 35 @38676 has 11 MA's), (73, 38496), (78, 38463), (147, 38121),

Gene: Coletti_47 Start: 40410, Stop: 39766, Start Num: 25
Candidate Starts for Coletti_47:
(Start: 25 @40410 has 63 MA's), (Start: 27 @40404 has 4 MA's), (Start: 28 @40401 has 38 MA's), (Start: 45 @40326 has 228 MA's), (56, 40257), (58, 40254), (59, 40251), (71, 40197), (120, 39984), (153, 39777),

Gene: Colt_91 Start: 50568, Stop: 51200, Start Num: 36
Candidate Starts for Colt_91:
(Start: 36 @50568 has 187 MA's), (111, 50907), (122, 50985), (140, 51093), (155, 51195),

Gene: Compostia_46 Start: 40635, Stop: 39937, Start Num: 28
Candidate Starts for Compostia_46:
(3, 40881), (4, 40815), (10, 40704), (Start: 14 @40686 has 1 MA's), (16, 40680), (Start: 28 @40635 has 38 MA's), (43, 40563), (56, 40482), (59, 40476), (76, 40386), (83, 40347), (96, 40311), (106, 40254), (110, 40236), (119, 40176), (127, 40131), (132, 40095), (138, 40062), (142, 40029), (147, 39996), (150, 39957),

Gene: Comrade_252 Start: 123254, Stop: 123727, Start Num: 57
Candidate Starts for Comrade_252:
(53, 123236), (Start: 57 @123254 has 6 MA's), (87, 123380), (88, 123383), (99, 123416), (118, 123491), (122, 123527), (123, 123530), (135, 123584), (138, 123602), (147, 123668), (150, 123707),

Gene: Concombre_108 Start: 54002, Stop: 54640, Start Num: 36
Candidate Starts for Concombre_108:
(26, 53966), (Start: 36 @54002 has 187 MA's), (111, 54347), (122, 54425), (140, 54533), (155, 54635),

Gene: Cornbread_46 Start: 39999, Stop: 39439, Start Num: 45
Candidate Starts for Cornbread_46:
(Start: 25 @40083 has 63 MA's), (Start: 27 @40077 has 4 MA's), (Start: 28 @40074 has 38 MA's), (Start: 45 @39999 has 228 MA's), (56, 39930), (58, 39927), (59, 39924), (104, 39759), (120, 39657), (153, 39450),

Gene: Cornobble_46 Start: 39840, Stop: 39280, Start Num: 45
Candidate Starts for Cornobble_46:
(Start: 25 @39924 has 63 MA's), (Start: 27 @39918 has 4 MA's), (Start: 28 @39915 has 38 MA's), (Start: 45 @39840 has 228 MA's), (56, 39771), (58, 39768), (59, 39765), (71, 39711), (120, 39498), (153, 39291),

Gene: Corofin_45 Start: 40230, Stop: 39532, Start Num: 28
Candidate Starts for Corofin_45:
(3, 40476), (4, 40410), (10, 40299), (Start: 14 @40281 has 1 MA's), (16, 40275), (Start: 28 @40230 has 38 MA's), (43, 40158), (56, 40077), (59, 40071), (76, 39981), (83, 39942), (96, 39906), (106, 39849), (110, 39831), (119, 39771), (127, 39726), (132, 39690), (138, 39657), (142, 39624), (147, 39591), (150, 39552),

Gene: Cosmolli16_46 Start: 39990, Stop: 39430, Start Num: 45
Candidate Starts for Cosmolli16_46:
(Start: 25 @40074 has 63 MA's), (Start: 27 @40068 has 4 MA's), (Start: 28 @40065 has 38 MA's), (Start: 45 @39990 has 228 MA's), (56, 39921), (58, 39918), (59, 39915), (104, 39750), (120, 39648), (153, 39441),

Gene: Craff_48 Start: 40418, Stop: 39858, Start Num: 45
Candidate Starts for Craff_48:
(Start: 25 @40502 has 63 MA's), (Start: 27 @40496 has 4 MA's), (Start: 28 @40493 has 38 MA's), (Start: 45 @40418 has 228 MA's), (56, 40349), (58, 40346), (59, 40343), (71, 40289), (120, 40076),

Gene: Crownjwl_47 Start: 40059, Stop: 39499, Start Num: 45
Candidate Starts for Crownjwl_47:
(Start: 25 @40143 has 63 MA's), (Start: 27 @40137 has 4 MA's), (Start: 28 @40134 has 38 MA's), (Start: 45 @40059 has 228 MA's), (56, 39990), (58, 39987), (59, 39984), (71, 39930), (120, 39717), (153, 39510),

Gene: DTDevon_102 Start: 52106, Stop: 52744, Start Num: 36
Candidate Starts for DTDevon_102:
(Start: 36 @52106 has 187 MA's), (111, 52451), (122, 52529), (140, 52637), (155, 52739),

Gene: DaddyDaniels_47 Start: 39971, Stop: 39411, Start Num: 45
Candidate Starts for DaddyDaniels_47:
(Start: 25 @40055 has 63 MA's), (Start: 27 @40049 has 4 MA's), (Start: 28 @40046 has 38 MA's), (Start: 45 @39971 has 228 MA's), (56, 39902), (58, 39899), (59, 39896), (71, 39842), (120, 39629), (153, 39422),

Gene: Daffodil_106 Start: 51803, Stop: 52441, Start Num: 36
Candidate Starts for Daffodil_106:
(Start: 36 @51803 has 187 MA's), (111, 52148), (122, 52226), (140, 52334), (155, 52436),

Gene: Daffy_47 Start: 39996, Stop: 39442, Start Num: 45
Candidate Starts for Daffy_47:
(Start: 25 @40080 has 63 MA's), (Start: 27 @40074 has 4 MA's), (Start: 28 @40071 has 38 MA's), (Start: 45 @39996 has 228 MA's), (56, 39933), (58, 39930), (59, 39927), (71, 39873), (120, 39660), (134, 39594), (153, 39453),

Gene: Daisy_45 Start: 40231, Stop: 39533, Start Num: 28
Candidate Starts for Daisy_45:
(3, 40477), (4, 40411), (10, 40300), (Start: 14 @40282 has 1 MA's), (16, 40276), (Start: 28 @40231 has 38 MA's), (43, 40159), (56, 40078), (59, 40072), (76, 39982), (83, 39943), (96, 39907), (106, 39850), (110, 39832), (119, 39772), (127, 39727), (132, 39691), (138, 39658), (142, 39625), (147, 39592), (150, 39553),

Gene: Daka_48 Start: 40275, Stop: 39715, Start Num: 45
Candidate Starts for Daka_48:
(Start: 25 @40359 has 63 MA's), (Start: 27 @40353 has 4 MA's), (Start: 28 @40350 has 38 MA's), (Start: 45 @40275 has 228 MA's), (56, 40206), (58, 40203), (59, 40200), (71, 40146), (120, 39933), (153, 39726),

Gene: DalanDe_65 Start: 59026, Stop: 59634, Start Num: 34
Candidate Starts for DalanDe_65:

(20, 58969), (Start: 34 @59026 has 11 MA's), (70, 59206), (75, 59233), (79, 59251), (87, 59287), (91, 59299), (94, 59308), (117, 59386), (145, 59554),

Gene: Damien_41 Start: 37011, Stop: 37643, Start Num: 34
Candidate Starts for Damien_41:
(Start: 34 @37011 has 11 MA's), (51, 37098), (Start: 52 @37107 has 2 MA's), (Start: 60 @37140 has 1 MA's), (69, 37185), (117, 37377), (118, 37386), (127, 37440), (133, 37479), (138, 37509), (149, 37605), (153, 37629),

Gene: Dandelion_108 Start: 54240, Stop: 54878, Start Num: 36
Candidate Starts for Dandelion_108:
(Start: 36 @54240 has 187 MA's), (111, 54585), (122, 54663), (140, 54771), (155, 54873),

Gene: Darko_101 Start: 51745, Stop: 52377, Start Num: 36
Candidate Starts for Darko_101:
(Start: 36 @51745 has 187 MA's), (111, 52084), (122, 52162), (140, 52270), (155, 52372),

Gene: Dati_47 Start: 39999, Stop: 39439, Start Num: 45
Candidate Starts for Dati_47:
(Start: 25 @40083 has 63 MA's), (Start: 27 @40077 has 4 MA's), (Start: 28 @40074 has 38 MA's), (Start: 45 @39999 has 228 MA's), (56, 39930), (58, 39927), (59, 39924), (71, 39870), (104, 39759), (120, 39657), (153, 39450),

Gene: DeejaClivia_90 Start: 48422, Stop: 49054, Start Num: 36
Candidate Starts for DeejaClivia_90:
(Start: 36 @48422 has 187 MA's), (111, 48761), (122, 48839), (140, 48947), (155, 49049),

Gene: Deenasa_45 Start: 40966, Stop: 40268, Start Num: 28
Candidate Starts for Deenasa_45:
(3, 41212), (4, 41146), (10, 41035), (Start: 14 @41017 has 1 MA's), (16, 41011), (Start: 28 @40966 has 38 MA's), (43, 40894), (56, 40813), (59, 40807), (76, 40717), (83, 40678), (96, 40642), (106, 40585), (110, 40567), (119, 40507), (127, 40462), (132, 40426), (138, 40393), (142, 40360), (147, 40327), (150, 40288),

Gene: DelRivs_46 Start: 40003, Stop: 39443, Start Num: 45
Candidate Starts for DelRivs_46:
(Start: 25 @40087 has 63 MA's), (Start: 27 @40081 has 4 MA's), (Start: 28 @40078 has 38 MA's), (Start: 45 @40003 has 228 MA's), (56, 39934), (58, 39931), (59, 39928), (104, 39763), (120, 39661), (153, 39454),

Gene: Delilah_101 Start: 51957, Stop: 52595, Start Num: 36
Candidate Starts for Delilah_101:
(Start: 36 @51957 has 187 MA's), (111, 52302), (122, 52380), (140, 52488), (155, 52590),

Gene: Delylah_104 Start: 51502, Stop: 52134, Start Num: 36
Candidate Starts for Delylah_104:
(6, 51391), (Start: 36 @51502 has 187 MA's), (111, 51841), (122, 51919), (140, 52027), (155, 52129),

Gene: Demodog_108 Start: 54002, Stop: 54640, Start Num: 36
Candidate Starts for Demodog_108:
(26, 53966), (Start: 36 @54002 has 187 MA's), (111, 54347), (122, 54425), (140, 54533), (155, 54635),

Gene: Derek_101 Start: 51428, Stop: 52060, Start Num: 36

Candidate Starts for Derek_101:
(Start: 12 @51341 has 6 MA's), (Start: 36 @51428 has 187 MA's), (111, 51767), (122, 51845), (140, 51953), (155, 52055),

Gene: Derpp_46 Start: 39841, Stop: 39281, Start Num: 45
Candidate Starts for Derpp_46:
(Start: 25 @39925 has 63 MA's), (Start: 27 @39919 has 4 MA's), (Start: 28 @39916 has 38 MA's), (Start: 45 @39841 has 228 MA's), (56, 39772), (58, 39769), (59, 39766), (104, 39601), (120, 39499), (153, 39292),

Gene: Dessert_101 Start: 49904, Stop: 50536, Start Num: 36
Candidate Starts for Dessert_101:
(Start: 12 @49817 has 6 MA's), (Start: 36 @49904 has 187 MA's), (111, 50243), (122, 50321), (140, 50429), (155, 50531),

Gene: Devonte_45 Start: 40219, Stop: 39497, Start Num: 21
Candidate Starts for Devonte_45:
(Start: 21 @40219 has 14 MA's), (Start: 28 @40195 has 38 MA's), (43, 40123), (56, 40042), (59, 40036), (76, 39946), (83, 39907), (96, 39871), (106, 39814), (110, 39796), (119, 39736), (127, 39691), (132, 39655), (138, 39622), (142, 39589), (147, 39556), (150, 39517),

Gene: Dice_46 Start: 39967, Stop: 39413, Start Num: 45
Candidate Starts for Dice_46:
(Start: 25 @40051 has 63 MA's), (Start: 27 @40045 has 4 MA's), (Start: 28 @40042 has 38 MA's), (Start: 45 @39967 has 228 MA's), (56, 39904), (58, 39901), (59, 39898), (71, 39844), (120, 39631), (134, 39565), (153, 39424),

Gene: Dietrick_93 Start: 49504, Stop: 50136, Start Num: 36
Candidate Starts for Dietrick_93:
(Start: 36 @49504 has 187 MA's), (111, 49843), (122, 49921), (140, 50029), (155, 50131),

Gene: Dingo_47 Start: 40265, Stop: 39705, Start Num: 45
Candidate Starts for Dingo_47:
(Start: 37 @40307 has 3 MA's), (Start: 45 @40265 has 228 MA's), (56, 40196), (58, 40193), (59, 40190), (71, 40136), (120, 39923), (153, 39716),

Gene: Dione_46 Start: 39975, Stop: 39421, Start Num: 45
Candidate Starts for Dione_46:
(Start: 25 @40059 has 63 MA's), (Start: 27 @40053 has 4 MA's), (Start: 28 @40050 has 38 MA's), (Start: 45 @39975 has 228 MA's), (56, 39912), (58, 39909), (59, 39906), (71, 39852), (120, 39639), (134, 39573), (153, 39432),

Gene: DirtJuice_47 Start: 40265, Stop: 39705, Start Num: 45
Candidate Starts for DirtJuice_47:
(Start: 25 @40349 has 63 MA's), (Start: 27 @40343 has 4 MA's), (Start: 28 @40340 has 38 MA's), (Start: 45 @40265 has 228 MA's), (56, 40196), (58, 40193), (59, 40190), (71, 40136), (104, 40025), (120, 39923), (153, 39716),

Gene: DirtMonster_95 Start: 50996, Stop: 51628, Start Num: 36
Candidate Starts for DirtMonster_95:
(Start: 36 @50996 has 187 MA's), (111, 51335), (122, 51413), (140, 51521), (155, 51623),

Gene: Doddsville_47 Start: 39995, Stop: 39435, Start Num: 45

Candidate Starts for Doddsville_47:
(Start: 25 @40079 has 63 MA's), (Start: 27 @40073 has 4 MA's), (Start: 28 @40070 has 38 MA's), (Start: 45 @39995 has 228 MA's), (56, 39926), (58, 39923), (59, 39920), (71, 39866), (120, 39653), (153, 39446),

Gene: DoesntMatter_46 Start: 40352, Stop: 39708, Start Num: 25
Candidate Starts for DoesntMatter_46:
(Start: 25 @40352 has 63 MA's), (Start: 27 @40346 has 4 MA's), (Start: 28 @40343 has 38 MA's), (Start: 45 @40268 has 228 MA's), (56, 40199), (58, 40196), (59, 40193), (71, 40139), (104, 40028), (120, 39926), (153, 39719),

Gene: DolOn_50 Start: 40643, Stop: 40083, Start Num: 45
Candidate Starts for DolOn_50:
(Start: 25 @40727 has 63 MA's), (Start: 27 @40721 has 4 MA's), (Start: 28 @40718 has 38 MA's), (Start: 45 @40643 has 228 MA's), (56, 40574), (58, 40571), (59, 40568), (71, 40514), (120, 40301),

Gene: Domi_95 Start: 50853, Stop: 51485, Start Num: 36
Candidate Starts for Domi_95:
(Start: 36 @50853 has 187 MA's), (111, 51192), (122, 51270), (140, 51378), (155, 51480),

Gene: DonSanchon_46 Start: 39978, Stop: 39418, Start Num: 45
Candidate Starts for DonSanchon_46:
(Start: 25 @40062 has 63 MA's), (Start: 27 @40056 has 4 MA's), (Start: 28 @40053 has 38 MA's), (Start: 45 @39978 has 228 MA's), (56, 39909), (58, 39906), (59, 39903), (104, 39738), (120, 39636), (153, 39429),

Gene: DrPhinkDaddy_100 Start: 52023, Stop: 52661, Start Num: 36
Candidate Starts for DrPhinkDaddy_100:
(Start: 36 @52023 has 187 MA's), (111, 52368), (122, 52446), (140, 52554), (155, 52656),

Gene: Drazdys_100 Start: 50726, Stop: 51358, Start Num: 36
Candidate Starts for Drazdys_100:
(Start: 12 @50639 has 6 MA's), (Start: 36 @50726 has 187 MA's), (111, 51065), (122, 51143), (140, 51251), (155, 51353),

Gene: DuchessDung_46 Start: 39267, Stop: 38707, Start Num: 45
Candidate Starts for DuchessDung_46:
(Start: 25 @39351 has 63 MA's), (Start: 27 @39345 has 4 MA's), (Start: 28 @39342 has 38 MA's), (Start: 45 @39267 has 228 MA's), (56, 39198), (58, 39195), (59, 39192), (120, 38925),

Gene: Duckfeet_94 Start: 49953, Stop: 50585, Start Num: 36
Candidate Starts for Duckfeet_94:
(Start: 36 @49953 has 187 MA's), (111, 50292), (122, 50370), (140, 50478), (155, 50580),

Gene: Duggie_46 Start: 39997, Stop: 39437, Start Num: 45
Candidate Starts for Duggie_46:
(Start: 25 @40081 has 63 MA's), (Start: 27 @40075 has 4 MA's), (Start: 28 @40072 has 38 MA's), (Start: 45 @39997 has 228 MA's), (56, 39928), (58, 39925), (59, 39922), (71, 39868), (120, 39655), (153, 39448),

Gene: Durga_48 Start: 40433, Stop: 39873, Start Num: 45
Candidate Starts for Durga_48:

(Start: 25 @40517 has 63 MA's), (Start: 27 @40511 has 4 MA's), (Start: 28 @40508 has 38 MA's), (Start: 45 @40433 has 228 MA's), (56, 40364), (58, 40361), (59, 40358), (71, 40304), (120, 40091),

Gene: ET08_90 Start: 50495, Stop: 51127, Start Num: 36
Candidate Starts for ET08_90:
(Start: 36 @50495 has 187 MA's), (111, 50834), (122, 50912), (140, 51020), (155, 51122),

Gene: EasyJones_104 Start: 50888, Stop: 51520, Start Num: 36
Candidate Starts for EasyJones_104:
(Start: 36 @50888 has 187 MA's), (111, 51227), (122, 51305), (140, 51413), (155, 51515),

Gene: EggyFarm_109 Start: 53767, Stop: 54399, Start Num: 36
Candidate Starts for EggyFarm_109:
(Start: 36 @53767 has 187 MA's), (111, 54106), (122, 54184), (140, 54292), (155, 54394),

Gene: ElvisPhasley_48 Start: 40455, Stop: 39895, Start Num: 45
Candidate Starts for ElvisPhasley_48:
(Start: 25 @40539 has 63 MA's), (Start: 27 @40533 has 4 MA's), (Start: 28 @40530 has 38 MA's), (Start: 45 @40455 has 228 MA's), (56, 40386), (58, 40383), (59, 40380), (71, 40326), (120, 40113),

Gene: EmGer13_47 Start: 39839, Stop: 39279, Start Num: 45
Candidate Starts for EmGer13_47:
(Start: 25 @39923 has 63 MA's), (Start: 27 @39917 has 4 MA's), (Start: 28 @39914 has 38 MA's), (Start: 45 @39839 has 228 MA's), (56, 39770), (58, 39767), (59, 39764), (104, 39599), (120, 39497), (153, 39290),

Gene: EmToTheThree_104 Start: 53020, Stop: 53658, Start Num: 36
Candidate Starts for EmToTheThree_104:
(Start: 36 @53020 has 187 MA's), (111, 53365), (122, 53443), (140, 53551), (155, 53653),

Gene: Emiris_48 Start: 40401, Stop: 39841, Start Num: 45
Candidate Starts for Emiris_48:
(Start: 25 @40485 has 63 MA's), (Start: 27 @40479 has 4 MA's), (Start: 28 @40476 has 38 MA's), (Start: 45 @40401 has 228 MA's), (56, 40332), (58, 40329), (59, 40326), (71, 40272), (120, 40059),

Gene: EmmaElysia_101 Start: 50554, Stop: 51186, Start Num: 36
Candidate Starts for EmmaElysia_101:
(Start: 36 @50554 has 187 MA's), (111, 50893), (122, 50971), (140, 51079), (155, 51181),

Gene: EmpTee_47 Start: 40281, Stop: 39721, Start Num: 45
Candidate Starts for EmpTee_47:
(Start: 25 @40365 has 63 MA's), (Start: 27 @40359 has 4 MA's), (Start: 28 @40356 has 38 MA's), (Start: 45 @40281 has 228 MA's), (56, 40212), (58, 40209), (59, 40206), (71, 40152), (120, 39939), (153, 39732),

Gene: Erdmann_102 Start: 51804, Stop: 52442, Start Num: 36
Candidate Starts for Erdmann_102:
(Start: 36 @51804 has 187 MA's), (111, 52149), (122, 52227), (140, 52335), (155, 52437),

Gene: Eremos_47 Start: 40274, Stop: 39714, Start Num: 45
Candidate Starts for Eremos_47:
(Start: 25 @40358 has 63 MA's), (Start: 27 @40352 has 4 MA's), (Start: 28 @40349 has 38 MA's), (Start: 45 @40274 has 228 MA's), (56, 40205), (58, 40202), (59, 40199), (71, 40145), (120, 39932),

(153, 39725),

Gene: ErnieJ_97 Start: 50014, Stop: 50652, Start Num: 36
Candidate Starts for ErnieJ_97:
(Start: 36 @50014 has 187 MA's), (111, 50359), (122, 50437), (140, 50545), (155, 50647),

Gene: Essence_98 Start: 50892, Stop: 51524, Start Num: 36
Candidate Starts for Essence_98:
(Start: 12 @50805 has 6 MA's), (Start: 36 @50892 has 187 MA's), (111, 51231), (122, 51309), (140, 51417), (155, 51519),

Gene: Etaye_47 Start: 40268, Stop: 39708, Start Num: 45
Candidate Starts for Etaye_47:
(Start: 25 @40352 has 63 MA's), (Start: 27 @40346 has 4 MA's), (Start: 28 @40343 has 38 MA's), (Start: 45 @40268 has 228 MA's), (56, 40199), (58, 40196), (59, 40193), (71, 40139), (104, 40028), (120, 39926), (153, 39719),

Gene: Eugenia_47 Start: 40278, Stop: 39724, Start Num: 45
Candidate Starts for Eugenia_47:
(Start: 25 @40362 has 63 MA's), (Start: 27 @40356 has 4 MA's), (Start: 28 @40353 has 38 MA's), (Start: 45 @40278 has 228 MA's), (56, 40215), (58, 40212), (59, 40209), (71, 40155), (120, 39942), (134, 39876), (153, 39735),

Gene: Evaa_40 Start: 34989, Stop: 34357, Start Num: 35
Candidate Starts for Evaa_40:
(23, 35028), (24, 35025), (Start: 35 @34989 has 11 MA's), (51, 34905), (66, 34824), (74, 34788), (85, 34737), (145, 34434),

Gene: Ewok_102 Start: 51197, Stop: 51829, Start Num: 36
Candidate Starts for Ewok_102:
(Start: 36 @51197 has 187 MA's), (111, 51536), (122, 51614), (140, 51722), (155, 51824),

Gene: Fang_48 Start: 40510, Stop: 39866, Start Num: 25
Candidate Starts for Fang_48:
(Start: 25 @40510 has 63 MA's), (Start: 27 @40504 has 4 MA's), (Start: 28 @40501 has 38 MA's), (Start: 45 @40426 has 228 MA's), (56, 40357), (58, 40354), (59, 40351), (71, 40297), (120, 40084),

Gene: FelixTres_42 Start: 35857, Stop: 35282, Start Num: 35
Candidate Starts for FelixTres_42:
(Start: 35 @35857 has 11 MA's), (46, 35818), (69, 35707), (80, 35668), (114, 35545), (117, 35533), (118, 35524), (124, 35482), (125, 35479), (126, 35476),

Gene: Fixie_94 Start: 50450, Stop: 51082, Start Num: 36
Candidate Starts for Fixie_94:
(Start: 36 @50450 has 187 MA's), (111, 50789), (122, 50867), (140, 50975), (155, 51077),

Gene: Flabslab_95 Start: 48889, Stop: 49521, Start Num: 36
Candidate Starts for Flabslab_95:
(Start: 12 @48802 has 6 MA's), (Start: 36 @48889 has 187 MA's), (111, 49228), (122, 49306), (140, 49414), (155, 49516),

Gene: Flake_47 Start: 40417, Stop: 39773, Start Num: 25
Candidate Starts for Flake_47:

(Start: 25 @40417 has 63 MA's), (Start: 27 @40411 has 4 MA's), (Start: 28 @40408 has 38 MA's), (Start: 45 @40333 has 228 MA's), (56, 40264), (58, 40261), (59, 40258), (71, 40204), (120, 39991), (153, 39784),

Gene: FleetyMac_47 Start: 40286, Stop: 39726, Start Num: 45
Candidate Starts for FleetyMac_47:
(Start: 25 @40370 has 63 MA's), (Start: 27 @40364 has 4 MA's), (Start: 28 @40361 has 38 MA's), (Start: 45 @40286 has 228 MA's), (56, 40217), (58, 40214), (59, 40211), (71, 40157), (104, 40046), (120, 39944), (153, 39737),

Gene: Fludd_102 Start: 50660, Stop: 51292, Start Num: 36
Candidate Starts for Fludd_102:
(Start: 36 @50660 has 187 MA's), (111, 50999), (122, 51077), (140, 51185), (155, 51287),

Gene: FluffyNinja_48 Start: 40503, Stop: 39859, Start Num: 25
Candidate Starts for FluffyNinja_48:
(Start: 25 @40503 has 63 MA's), (Start: 27 @40497 has 4 MA's), (Start: 28 @40494 has 38 MA's), (Start: 45 @40419 has 228 MA's), (56, 40350), (58, 40347), (59, 40344), (71, 40290), (120, 40077),

Gene: Fongie_99 Start: 51410, Stop: 52042, Start Num: 36
Candidate Starts for Fongie_99:
(Start: 36 @51410 has 187 MA's), (111, 51749), (122, 51827), (140, 51935), (155, 52037),

Gene: FoxtrotP1_101 Start: 52974, Stop: 53612, Start Num: 36
Candidate Starts for FoxtrotP1_101:
(Start: 36 @52974 has 187 MA's), (111, 53319), (122, 53397), (140, 53505), (155, 53607),

Gene: Fozzie_46 Start: 40303, Stop: 39743, Start Num: 45
Candidate Starts for Fozzie_46:
(Start: 25 @40387 has 63 MA's), (Start: 27 @40381 has 4 MA's), (Start: 28 @40378 has 38 MA's), (Start: 45 @40303 has 228 MA's), (56, 40234), (58, 40231), (59, 40228), (71, 40174), (120, 39961), (153, 39754),

Gene: Frankicide_47 Start: 40293, Stop: 39733, Start Num: 45
Candidate Starts for Frankicide_47:
(Start: 25 @40377 has 63 MA's), (Start: 27 @40371 has 4 MA's), (Start: 28 @40368 has 38 MA's), (Start: 45 @40293 has 228 MA's), (56, 40224), (58, 40221), (59, 40218), (71, 40164), (104, 40053), (120, 39951), (153, 39744),

Gene: FrayBell_106 Start: 52378, Stop: 53010, Start Num: 36
Candidate Starts for FrayBell_106:
(Start: 12 @52291 has 6 MA's), (Start: 36 @52378 has 187 MA's), (111, 52717), (122, 52795), (140, 52903), (155, 53005),

Gene: FremontTroll_46 Start: 40041, Stop: 39481, Start Num: 45
Candidate Starts for FremontTroll_46:
(Start: 25 @40125 has 63 MA's), (Start: 27 @40119 has 4 MA's), (Start: 28 @40116 has 38 MA's), (Start: 45 @40041 has 228 MA's), (56, 39972), (58, 39969), (59, 39966), (104, 39801), (120, 39699), (153, 39492),

Gene: Freya_46 Start: 39966, Stop: 39412, Start Num: 45
Candidate Starts for Freya_46:

(Start: 25 @40050 has 63 MA's), (Start: 27 @40044 has 4 MA's), (Start: 28 @40041 has 38 MA's), (Start: 45 @39966 has 228 MA's), (56, 39903), (58, 39900), (59, 39897), (71, 39843), (120, 39630), (134, 39564), (153, 39423),

Gene: FriarPreacher_46 Start: 40305, Stop: 39745, Start Num: 45
Candidate Starts for FriarPreacher_46:
(Start: 25 @40389 has 63 MA's), (Start: 27 @40383 has 4 MA's), (Start: 28 @40380 has 38 MA's), (Start: 45 @40305 has 228 MA's), (56, 40236), (58, 40233), (59, 40230), (104, 40065), (120, 39963), (153, 39756),

Gene: Fringe_48 Start: 40402, Stop: 39842, Start Num: 45
Candidate Starts for Fringe_48:
(Start: 25 @40486 has 63 MA's), (Start: 27 @40480 has 4 MA's), (Start: 28 @40477 has 38 MA's), (Start: 45 @40402 has 228 MA's), (56, 40333), (58, 40330), (59, 40327), (71, 40273), (120, 40060),

Gene: FudgeTart_101 Start: 51094, Stop: 51726, Start Num: 36
Candidate Starts for FudgeTart_101:
(Start: 36 @51094 has 187 MA's), (111, 51433), (122, 51511), (140, 51619), (155, 51721),

Gene: FugateOSU_46 Start: 39980, Stop: 39420, Start Num: 45
Candidate Starts for FugateOSU_46:
(Start: 25 @40064 has 63 MA's), (Start: 27 @40058 has 4 MA's), (Start: 28 @40055 has 38 MA's), (Start: 45 @39980 has 228 MA's), (56, 39911), (58, 39908), (59, 39905), (71, 39851), (89, 39770), (120, 39638), (153, 39431),

Gene: Gabriel_102 Start: 50298, Stop: 50930, Start Num: 36
Candidate Starts for Gabriel_102:
(Start: 12 @50211 has 6 MA's), (Start: 36 @50298 has 187 MA's), (111, 50637), (122, 50715), (140, 50823), (155, 50925),

Gene: Gadjet_46 Start: 40218, Stop: 39520, Start Num: 28
Candidate Starts for Gadjet_46:
(3, 40464), (4, 40398), (10, 40287), (Start: 14 @40269 has 1 MA's), (16, 40263), (Start: 28 @40218 has 38 MA's), (43, 40146), (56, 40065), (59, 40059), (76, 39969), (83, 39930), (96, 39894), (106, 39837), (110, 39819), (119, 39759), (127, 39714), (132, 39678), (138, 39645), (142, 39612), (147, 39579), (150, 39540),

Gene: Gamgam_101 Start: 50251, Stop: 50970, Start Num: 12
Candidate Starts for Gamgam_101:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (111, 50677), (122, 50755), (140, 50863), (155, 50965),

Gene: Gareth_46 Start: 39974, Stop: 39420, Start Num: 45
Candidate Starts for Gareth_46:
(Start: 25 @40058 has 63 MA's), (Start: 27 @40052 has 4 MA's), (Start: 28 @40049 has 38 MA's), (Start: 45 @39974 has 228 MA's), (56, 39911), (58, 39908), (59, 39905), (71, 39851), (120, 39638), (134, 39572), (153, 39431),

Gene: GeneCoco_47 Start: 40289, Stop: 39729, Start Num: 45
Candidate Starts for GeneCoco_47:
(Start: 25 @40373 has 63 MA's), (Start: 27 @40367 has 4 MA's), (Start: 28 @40364 has 38 MA's), (Start: 45 @40289 has 228 MA's), (56, 40220), (58, 40217), (59, 40214), (104, 40049), (120, 39947), (153, 39740),

Gene: Gervas_45 Start: 40185, Stop: 39487, Start Num: 28
Candidate Starts for Gervas_45:
(Start: 21 @40209 has 14 MA's), (Start: 28 @40185 has 38 MA's), (43, 40113), (56, 40032), (59, 40026), (76, 39936), (83, 39897), (96, 39861), (106, 39804), (110, 39786), (119, 39726), (127, 39681), (132, 39645), (138, 39612), (142, 39579), (147, 39546), (150, 39507),

Gene: Ghost_100 Start: 50338, Stop: 50970, Start Num: 36
Candidate Starts for Ghost_100:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (111, 50677), (122, 50755), (140, 50863), (155, 50965),

Gene: Giraffe_47 Start: 40067, Stop: 39423, Start Num: 25
Candidate Starts for Giraffe_47:
(Start: 25 @40067 has 63 MA's), (Start: 27 @40061 has 4 MA's), (Start: 28 @40058 has 38 MA's), (Start: 45 @39983 has 228 MA's), (56, 39914), (58, 39911), (59, 39908), (104, 39743), (120, 39641), (153, 39434),

Gene: Gizmo_105 Start: 52954, Stop: 53592, Start Num: 36
Candidate Starts for Gizmo_105:
(Start: 36 @52954 has 187 MA's), (111, 53299), (122, 53377), (140, 53485), (155, 53587),

Gene: GlenHope_46 Start: 40198, Stop: 39500, Start Num: 28
Candidate Starts for GlenHope_46:
(3, 40444), (4, 40378), (10, 40267), (Start: 14 @40249 has 1 MA's), (16, 40243), (Start: 28 @40198 has 38 MA's), (43, 40126), (56, 40045), (59, 40039), (76, 39949), (83, 39910), (96, 39874), (106, 39817), (110, 39799), (119, 39739), (127, 39694), (132, 39658), (138, 39625), (142, 39592), (147, 39559), (150, 39520),

Gene: Glubnar_46 Start: 40197, Stop: 39499, Start Num: 28
Candidate Starts for Glubnar_46:
(3, 40443), (4, 40377), (10, 40266), (Start: 14 @40248 has 1 MA's), (16, 40242), (Start: 28 @40197 has 38 MA's), (43, 40125), (56, 40044), (59, 40038), (76, 39948), (83, 39909), (96, 39873), (106, 39816), (110, 39798), (119, 39738), (127, 39693), (132, 39657), (138, 39624), (142, 39591), (147, 39558), (150, 39519),

Gene: GlutenPhree_102 Start: 50338, Stop: 50970, Start Num: 36
Candidate Starts for GlutenPhree_102:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (111, 50677), (122, 50755), (140, 50863), (155, 50965),

Gene: GoldenSnow_105 Start: 52377, Stop: 53009, Start Num: 36
Candidate Starts for GoldenSnow_105:
(Start: 12 @52290 has 6 MA's), (Start: 36 @52377 has 187 MA's), (111, 52716), (122, 52794), (140, 52902), (155, 53004),

Gene: Gophee_47 Start: 40272, Stop: 39712, Start Num: 45
Candidate Starts for Gophee_47:
(Start: 25 @40356 has 63 MA's), (Start: 27 @40350 has 4 MA's), (Start: 28 @40347 has 38 MA's), (Start: 45 @40272 has 228 MA's), (56, 40203), (58, 40200), (59, 40197), (71, 40143), (120, 39930), (153, 39723),

Gene: Grand2040_46 Start: 39992, Stop: 39438, Start Num: 45

Candidate Starts for Grand2040_46:
(Start: 25 @40076 has 63 MA's), (Start: 27 @40070 has 4 MA's), (Start: 28 @40067 has 38 MA's), (Start: 45 @39992 has 228 MA's), (56, 39929), (58, 39926), (59, 39923), (71, 39869), (120, 39656), (134, 39590), (153, 39449),

Gene: Grasshills_108 Start: 53767, Stop: 54399, Start Num: 36
Candidate Starts for Grasshills_108:
(Start: 36 @53767 has 187 MA's), (111, 54106), (122, 54184), (140, 54292), (155, 54394),

Gene: Greely_236 Start: 133749, Stop: 134378, Start Num: 38
Candidate Starts for Greely_236:
(Start: 38 @133749 has 2 MA's), (48, 133797), (92, 134001), (104, 134046), (111, 134085), (116, 134106), (117, 134112), (119, 134142), (121, 134160), (151, 134355), (152, 134358),

Gene: GreenChile_47 Start: 40277, Stop: 39717, Start Num: 45
Candidate Starts for GreenChile_47:
(Start: 25 @40361 has 63 MA's), (Start: 27 @40355 has 4 MA's), (Start: 28 @40352 has 38 MA's), (Start: 45 @40277 has 228 MA's), (56, 40208), (58, 40205), (59, 40202), (104, 40037), (120, 39935), (153, 39728),

Gene: Grungle_89 Start: 48153, Stop: 48785, Start Num: 36
Candidate Starts for Grungle_89:
(Start: 36 @48153 has 187 MA's), (111, 48492), (122, 48570), (140, 48678), (155, 48780),

Gene: Gustav_54 Start: 38579, Stop: 38097, Start Num: 60
Candidate Starts for Gustav_54:
(Start: 60 @38579 has 1 MA's), (67, 38540), (105, 38393), (109, 38372), (125, 38291), (130, 38273), (137, 38228), (143, 38180),

Gene: Guwapp_100 Start: 50463, Stop: 51095, Start Num: 36
Candidate Starts for Guwapp_100:
(Start: 12 @50376 has 6 MA's), (Start: 36 @50463 has 187 MA's), (111, 50802), (122, 50880), (140, 50988), (155, 51090),

Gene: Gwennie1_47 Start: 40338, Stop: 39784, Start Num: 45
Candidate Starts for Gwennie1_47:
(Start: 25 @40422 has 63 MA's), (Start: 27 @40416 has 4 MA's), (Start: 28 @40413 has 38 MA's), (Start: 45 @40338 has 228 MA's), (56, 40275), (58, 40272), (59, 40269), (71, 40215), (120, 40002), (134, 39936), (153, 39795),

Gene: Gwilliam_47 Start: 40278, Stop: 39718, Start Num: 45
Candidate Starts for Gwilliam_47:
(Start: 25 @40362 has 63 MA's), (Start: 27 @40356 has 4 MA's), (Start: 28 @40353 has 38 MA's), (Start: 45 @40278 has 228 MA's), (56, 40209), (58, 40206), (59, 40203), (71, 40149), (120, 39936), (153, 39729),

Gene: Gyarad_0047 Start: 40364, Stop: 39720, Start Num: 25
Candidate Starts for Gyarad_0047:
(Start: 25 @40364 has 63 MA's), (Start: 27 @40358 has 4 MA's), (Start: 28 @40355 has 38 MA's), (Start: 45 @40280 has 228 MA's), (56, 40211), (58, 40208), (59, 40205), (71, 40151), (104, 40040), (120, 39938), (153, 39731),

Gene: HSavage_47 Start: 40284, Stop: 39724, Start Num: 45

Candidate Starts for HSavage_47:
(Start: 25 @40368 has 63 MA's), (Start: 27 @40362 has 4 MA's), (Start: 28 @40359 has 38 MA's), (Start: 45 @40284 has 228 MA's), (56, 40215), (58, 40212), (59, 40209), (71, 40155), (104, 40044), (120, 39942), (153, 39735),

Gene: Haimas_47 Start: 40278, Stop: 39718, Start Num: 45
Candidate Starts for Haimas_47:
(Start: 25 @40362 has 63 MA's), (Start: 27 @40356 has 4 MA's), (Start: 28 @40353 has 38 MA's), (Start: 45 @40278 has 228 MA's), (56, 40209), (58, 40206), (59, 40203), (71, 40149), (120, 39936), (153, 39729),

Gene: Haleema_46 Start: 39992, Stop: 39438, Start Num: 45
Candidate Starts for Haleema_46:
(Start: 25 @40076 has 63 MA's), (Start: 27 @40070 has 4 MA's), (Start: 28 @40067 has 38 MA's), (Start: 45 @39992 has 228 MA's), (56, 39929), (58, 39926), (59, 39923), (71, 39869), (120, 39656), (134, 39590), (153, 39449),

Gene: Halfpint_44 Start: 40024, Stop: 39326, Start Num: 28
Candidate Starts for Halfpint_44:
(7, 40111), (8, 40105), (10, 40093), (Start: 14 @40075 has 1 MA's), (16, 40069), (Start: 28 @40024 has 38 MA's), (43, 39952), (56, 39871), (59, 39865), (76, 39775), (83, 39736), (96, 39700), (106, 39643), (110, 39625), (119, 39565), (127, 39520), (132, 39484), (138, 39451), (142, 39418), (147, 39385), (150, 39346),

Gene: Halldule_95 Start: 49179, Stop: 49811, Start Num: 36
Candidate Starts for Halldule_95:
(15, 49101), (Start: 36 @49179 has 187 MA's), (111, 49518), (122, 49596), (140, 49704), (155, 49806),

Gene: Hamish_47 Start: 40270, Stop: 39710, Start Num: 45
Candidate Starts for Hamish_47:
(Start: 25 @40354 has 63 MA's), (Start: 27 @40348 has 4 MA's), (Start: 28 @40345 has 38 MA's), (Start: 45 @40270 has 228 MA's), (56, 40201), (58, 40198), (59, 40195), (71, 40141), (120, 39928), (153, 39721),

Gene: Happabalu_47 Start: 40083, Stop: 39439, Start Num: 25
Candidate Starts for Happabalu_47:
(Start: 25 @40083 has 63 MA's), (Start: 27 @40077 has 4 MA's), (Start: 28 @40074 has 38 MA's), (Start: 45 @39999 has 228 MA's), (56, 39930), (58, 39927), (59, 39924), (71, 39870), (104, 39759), (120, 39657), (153, 39450),

Gene: Hartsy_47 Start: 40321, Stop: 39761, Start Num: 45
Candidate Starts for Hartsy_47:
(Start: 25 @40405 has 63 MA's), (Start: 27 @40399 has 4 MA's), (Start: 28 @40396 has 38 MA's), (Start: 45 @40321 has 228 MA's), (56, 40252), (58, 40249), (59, 40246), (71, 40192), (120, 39979), (153, 39772),

Gene: Harvey_47 Start: 40380, Stop: 39736, Start Num: 25
Candidate Starts for Harvey_47:
(Start: 25 @40380 has 63 MA's), (Start: 27 @40374 has 4 MA's), (Start: 28 @40371 has 38 MA's), (Start: 45 @40296 has 228 MA's), (56, 40227), (58, 40224), (59, 40221), (104, 40056), (120, 39954), (153, 39747),

Gene: HarveySr_45 Start: 40191, Stop: 39493, Start Num: 28

Candidate Starts for HarveySr_45:
(3, 40437), (4, 40371), (10, 40260), (Start: 14 @40242 has 1 MA's), (16, 40236), (Start: 28 @40191 has 38 MA's), (43, 40119), (56, 40038), (59, 40032), (76, 39942), (83, 39903), (96, 39867), (106, 39810), (110, 39792), (119, 39732), (127, 39687), (132, 39651), (138, 39618), (142, 39585), (147, 39552), (150, 39513),

Gene: Heathcliff_45 Start: 40169, Stop: 39471, Start Num: 28
Candidate Starts for Heathcliff_45:
(3, 40415), (4, 40349), (10, 40238), (Start: 14 @40220 has 1 MA's), (16, 40214), (Start: 28 @40169 has 38 MA's), (43, 40097), (56, 40016), (59, 40010), (76, 39920), (83, 39881), (96, 39845), (106, 39788), (110, 39770), (119, 39710), (127, 39665), (132, 39629), (138, 39596), (142, 39563), (147, 39530), (150, 39491),

Gene: Hekos_44 Start: 38847, Stop: 38287, Start Num: 45
Candidate Starts for Hekos_44:
(Start: 25 @38931 has 63 MA's), (Start: 27 @38925 has 4 MA's), (Start: 28 @38922 has 38 MA's), (Start: 45 @38847 has 228 MA's), (56, 38778), (58, 38775), (59, 38772), (71, 38718), (120, 38505), (153, 38298),

Gene: Held_47 Start: 39982, Stop: 39422, Start Num: 45
Candidate Starts for Held_47:
(Start: 25 @40066 has 63 MA's), (Start: 27 @40060 has 4 MA's), (Start: 28 @40057 has 38 MA's), (Start: 45 @39982 has 228 MA's), (56, 39913), (58, 39910), (59, 39907), (104, 39742), (120, 39640), (153, 39433),

Gene: HenryJackson_46 Start: 39992, Stop: 39438, Start Num: 45
Candidate Starts for HenryJackson_46:
(Start: 25 @40076 has 63 MA's), (Start: 27 @40070 has 4 MA's), (Start: 28 @40067 has 38 MA's), (Start: 45 @39992 has 228 MA's), (56, 39929), (58, 39926), (59, 39923), (71, 39869), (120, 39656), (134, 39590), (153, 39449),

Gene: Hertubise_47 Start: 40376, Stop: 39732, Start Num: 25
Candidate Starts for Hertubise_47:
(Start: 25 @40376 has 63 MA's), (Start: 27 @40370 has 4 MA's), (Start: 28 @40367 has 38 MA's), (Start: 45 @40292 has 228 MA's), (56, 40223), (58, 40220), (59, 40217), (104, 40052), (120, 39950), (153, 39743),

Gene: Hetaeria_47 Start: 40294, Stop: 39734, Start Num: 45
Candidate Starts for Hetaeria_47:
(Start: 25 @40378 has 63 MA's), (Start: 27 @40372 has 4 MA's), (Start: 28 @40369 has 38 MA's), (Start: 45 @40294 has 228 MA's), (56, 40225), (58, 40222), (59, 40219), (104, 40054), (120, 39952), (153, 39745),

Gene: HighStump_47 Start: 40119, Stop: 39559, Start Num: 45
Candidate Starts for HighStump_47:
(Start: 25 @40203 has 63 MA's), (Start: 27 @40197 has 4 MA's), (Start: 28 @40194 has 38 MA's), (Start: 45 @40119 has 228 MA's), (56, 40050), (58, 40047), (59, 40044), (71, 39990), (120, 39777),

Gene: Hocus_46 Start: 39981, Stop: 39427, Start Num: 45
Candidate Starts for Hocus_46:
(Start: 25 @40065 has 63 MA's), (Start: 27 @40059 has 4 MA's), (Start: 28 @40056 has 38 MA's), (Start: 45 @39981 has 228 MA's), (56, 39918), (58, 39915), (59, 39912), (71, 39858), (120, 39645), (134, 39579), (153, 39438),

Gene: HogWash_47 Start: 40290, Stop: 39730, Start Num: 45
Candidate Starts for HogWash_47:
(Start: 25 @40374 has 63 MA's), (Start: 27 @40368 has 4 MA's), (Start: 28 @40365 has 38 MA's), (Start: 45 @40290 has 228 MA's), (56, 40221), (58, 40218), (59, 40215), (71, 40161), (104, 40050), (120, 39948), (153, 39741),

Gene: Horchata_47 Start: 40272, Stop: 39712, Start Num: 45
Candidate Starts for Horchata_47:
(Start: 25 @40356 has 63 MA's), (Start: 27 @40350 has 4 MA's), (Start: 28 @40347 has 38 MA's), (Start: 45 @40272 has 228 MA's), (56, 40203), (58, 40200), (59, 40197), (71, 40143), (120, 39930), (153, 39723),

Gene: HyRo_93 Start: 50590, Stop: 51222, Start Num: 36
Candidate Starts for HyRo_93:
(Start: 36 @50590 has 187 MA's), (111, 50929), (122, 51007), (140, 51115), (155, 51217),

Gene: I3_107 Start: 52305, Stop: 52937, Start Num: 36
Candidate Starts for I3_107:
(Start: 36 @52305 has 187 MA's), (111, 52644), (122, 52722), (140, 52830), (155, 52932),

Gene: IkeLoa_95 Start: 50415, Stop: 51053, Start Num: 36
Candidate Starts for IkeLoa_95:
(Start: 36 @50415 has 187 MA's), (111, 50760), (122, 50838), (140, 50946), (155, 51048),

Gene: ImtiyazSitla_47 Start: 40051, Stop: 39407, Start Num: 25
Candidate Starts for ImtiyazSitla_47:
(Start: 25 @40051 has 63 MA's), (Start: 27 @40045 has 4 MA's), (Start: 28 @40042 has 38 MA's), (Start: 45 @39967 has 228 MA's), (56, 39898), (58, 39895), (59, 39892), (71, 39838), (120, 39625),

Gene: Inchworm_48 Start: 40405, Stop: 39845, Start Num: 45
Candidate Starts for Inchworm_48:
(Start: 25 @40489 has 63 MA's), (Start: 27 @40483 has 4 MA's), (Start: 28 @40480 has 38 MA's), (Start: 45 @40405 has 228 MA's), (56, 40336), (58, 40333), (59, 40330), (71, 40276), (120, 40063),

Gene: InigoMontoya_102 Start: 50299, Stop: 50931, Start Num: 36
Candidate Starts for InigoMontoya_102:
(Start: 12 @50212 has 6 MA's), (Start: 36 @50299 has 187 MA's), (111, 50638), (122, 50716), (140, 50824), (155, 50926),

Gene: InterFolia_109 Start: 53313, Stop: 53945, Start Num: 36
Candidate Starts for InterFolia_109:
(Start: 12 @53226 has 6 MA's), (Start: 36 @53313 has 187 MA's), (111, 53652), (122, 53730), (140, 53838), (155, 53940),

Gene: Inverness_47 Start: 40365, Stop: 39721, Start Num: 25
Candidate Starts for Inverness_47:
(Start: 25 @40365 has 63 MA's), (Start: 27 @40359 has 4 MA's), (Start: 28 @40356 has 38 MA's), (Start: 45 @40281 has 228 MA's), (56, 40212), (58, 40209), (59, 40206), (71, 40152), (104, 40041), (120, 39939), (153, 39732),

Gene: Iota_96 Start: 50775, Stop: 51407, Start Num: 36
Candidate Starts for Iota_96:

(Start: 36 @50775 has 187 MA's), (111, 51114), (122, 51192), (140, 51300), (155, 51402),

Gene: Iridessa_47 Start: 39977, Stop: 39423, Start Num: 45
Candidate Starts for Iridessa_47:
(Start: 25 @40061 has 63 MA's), (Start: 27 @40055 has 4 MA's), (Start: 28 @40052 has 38 MA's), (Start: 45 @39977 has 228 MA's), (56, 39914), (58, 39911), (59, 39908), (71, 39854), (120, 39641), (134, 39575), (153, 39434),

Gene: Iridoclysis_47 Start: 40264, Stop: 39704, Start Num: 45
Candidate Starts for Iridoclysis_47:
(Start: 25 @40348 has 63 MA's), (Start: 27 @40342 has 4 MA's), (Start: 28 @40339 has 38 MA's), (Start: 45 @40264 has 228 MA's), (56, 40195), (58, 40192), (59, 40189), (71, 40135), (120, 39922), (153, 39715),

Gene: IsaacEli_48 Start: 40507, Stop: 39863, Start Num: 25
Candidate Starts for IsaacEli_48:
(Start: 25 @40507 has 63 MA's), (Start: 27 @40501 has 4 MA's), (Start: 28 @40498 has 38 MA's), (Start: 45 @40423 has 228 MA's), (56, 40354), (58, 40351), (59, 40348), (71, 40294), (120, 40081),

Gene: Issimir_100 Start: 51778, Stop: 52416, Start Num: 36
Candidate Starts for Issimir_100:
(Start: 36 @51778 has 187 MA's), (111, 52123), (122, 52201), (140, 52309), (155, 52411),

Gene: Izajani_101 Start: 51984, Stop: 52622, Start Num: 36
Candidate Starts for Izajani_101:
(Start: 36 @51984 has 187 MA's), (111, 52329), (122, 52407), (140, 52515), (155, 52617),

Gene: JDog_46 Start: 40001, Stop: 39441, Start Num: 45
Candidate Starts for JDog_46:
(Start: 25 @40085 has 63 MA's), (Start: 27 @40079 has 4 MA's), (Start: 28 @40076 has 38 MA's), (Start: 45 @40001 has 228 MA's), (56, 39932), (58, 39929), (59, 39926), (71, 39872), (104, 39761), (120, 39659), (153, 39452),

Gene: JPickles_99 Start: 49482, Stop: 50201, Start Num: 12
Candidate Starts for JPickles_99:
(Start: 12 @49482 has 6 MA's), (Start: 36 @49569 has 187 MA's), (111, 49908), (122, 49986), (140, 50094), (155, 50196),

Gene: JacAttac_48 Start: 40483, Stop: 39845, Start Num: 27
Candidate Starts for JacAttac_48:
(Start: 25 @40489 has 63 MA's), (Start: 27 @40483 has 4 MA's), (Start: 28 @40480 has 38 MA's), (Start: 45 @40405 has 228 MA's), (56, 40336), (58, 40333), (59, 40330), (71, 40276), (120, 40063),

Gene: Jackstina_42 Start: 40128, Stop: 39430, Start Num: 28
Candidate Starts for Jackstina_42:
(3, 40374), (4, 40308), (10, 40197), (Start: 14 @40179 has 1 MA's), (16, 40173), (Start: 28 @40128 has 38 MA's), (43, 40056), (56, 39975), (59, 39969), (76, 39879), (83, 39840), (96, 39804), (106, 39747), (110, 39729), (119, 39669), (127, 39624), (132, 39588), (138, 39555), (142, 39522), (147, 39489), (150, 39450),

Gene: JakeO_46 Start: 40000, Stop: 39440, Start Num: 45
Candidate Starts for JakeO_46:

(Start: 25 @40084 has 63 MA's), (Start: 27 @40078 has 4 MA's), (Start: 28 @40075 has 38 MA's), (Start: 45 @40000 has 228 MA's), (56, 39931), (58, 39928), (59, 39925), (71, 39871), (120, 39658), (153, 39451),

Gene: JangoPhett_47 Start: 40275, Stop: 39715, Start Num: 45
Candidate Starts for JangoPhett_47:
(Start: 25 @40359 has 63 MA's), (Start: 27 @40353 has 4 MA's), (Start: 28 @40350 has 38 MA's), (Start: 45 @40275 has 228 MA's), (56, 40206), (58, 40203), (59, 40200), (104, 40035), (120, 39933), (153, 39726),

Gene: Janiyra_103 Start: 51265, Stop: 51897, Start Num: 36
Candidate Starts for Janiyra_103:
(Start: 36 @51265 has 187 MA's), (111, 51604), (122, 51682), (140, 51790), (155, 51892),

Gene: JayJay_107 Start: 53030, Stop: 53662, Start Num: 36
Candidate Starts for JayJay_107:
(Start: 36 @53030 has 187 MA's), (111, 53369), (122, 53447), (140, 53555), (155, 53657),

Gene: Jaygup_101 Start: 51094, Stop: 51726, Start Num: 36
Candidate Starts for Jaygup_101:
(Start: 12 @51007 has 6 MA's), (Start: 36 @51094 has 187 MA's), (111, 51433), (122, 51511), (140, 51619), (155, 51721),

Gene: Jbug01_47 Start: 39495, Stop: 38935, Start Num: 45
Candidate Starts for Jbug01_47:
(Start: 25 @39579 has 63 MA's), (Start: 27 @39573 has 4 MA's), (Start: 28 @39570 has 38 MA's), (Start: 45 @39495 has 228 MA's), (58, 39423), (59, 39420), (71, 39366), (120, 39153), (153, 38946),

Gene: Jedediah_104 Start: 51627, Stop: 52259, Start Num: 36
Candidate Starts for Jedediah_104:
(Start: 12 @51540 has 6 MA's), (Start: 36 @51627 has 187 MA's), (111, 51966), (122, 52044), (140, 52152), (155, 52254),

Gene: Jemmno_101 Start: 51074, Stop: 51706, Start Num: 36
Candidate Starts for Jemmno_101:
(Start: 12 @50987 has 6 MA's), (Start: 36 @51074 has 187 MA's), (111, 51413), (122, 51491), (140, 51599), (155, 51701),

Gene: Jesabah_47 Start: 40003, Stop: 39443, Start Num: 45
Candidate Starts for Jesabah_47:
(Start: 25 @40087 has 63 MA's), (Start: 27 @40081 has 4 MA's), (Start: 28 @40078 has 38 MA's), (Start: 45 @40003 has 228 MA's), (56, 39934), (58, 39931), (59, 39928), (104, 39763), (120, 39661), (153, 39454),

Gene: Jessibeth14_100 Start: 51589, Stop: 52227, Start Num: 36
Candidate Starts for Jessibeth14_100:
(Start: 36 @51589 has 187 MA's), (111, 51934), (122, 52012), (140, 52120), (155, 52222),

Gene: Jezreel_101 Start: 51758, Stop: 52390, Start Num: 36
Candidate Starts for Jezreel_101:
(Start: 36 @51758 has 187 MA's), (111, 52097), (122, 52175), (140, 52283), (155, 52385),

Gene: JigglyPuff_109 Start: 53918, Stop: 54556, Start Num: 36

Candidate Starts for JigglyPuff_109:
(Start: 36 @53918 has 187 MA's), (111, 54263), (122, 54341), (140, 54449), (155, 54551),

Gene: Jillium_46 Start: 39994, Stop: 39434, Start Num: 45
Candidate Starts for Jillium_46:
(Start: 25 @40078 has 63 MA's), (Start: 27 @40072 has 4 MA's), (Start: 28 @40069 has 38 MA's), (Start: 45 @39994 has 228 MA's), (56, 39925), (58, 39922), (59, 39919), (104, 39754), (120, 39652), (153, 39445),

Gene: Jiminy_46 Start: 39835, Stop: 39275, Start Num: 45
Candidate Starts for Jiminy_46:
(Start: 25 @39919 has 63 MA's), (Start: 27 @39913 has 4 MA's), (Start: 28 @39910 has 38 MA's), (Start: 45 @39835 has 228 MA's), (56, 39766), (58, 39763), (59, 39760), (71, 39706), (120, 39493), (153, 39286),

Gene: Jiraiya_46 Start: 39988, Stop: 39428, Start Num: 45
Candidate Starts for Jiraiya_46:
(Start: 25 @40072 has 63 MA's), (Start: 27 @40066 has 4 MA's), (Start: 28 @40063 has 38 MA's), (Start: 45 @39988 has 228 MA's), (56, 39919), (58, 39916), (59, 39913), (71, 39859), (120, 39646), (153, 39439),

Gene: JulietS_95 Start: 49032, Stop: 49664, Start Num: 36
Candidate Starts for JulietS_95:
(Start: 36 @49032 has 187 MA's), (111, 49371), (122, 49449), (140, 49557), (155, 49659),

Gene: JustHall_98 Start: 51127, Stop: 51765, Start Num: 36
Candidate Starts for JustHall_98:
(Start: 36 @51127 has 187 MA's), (111, 51472), (122, 51550), (140, 51658), (155, 51760),

Gene: KLucky39_47 Start: 40279, Stop: 39719, Start Num: 45
Candidate Starts for KLucky39_47:
(Start: 25 @40363 has 63 MA's), (Start: 27 @40357 has 4 MA's), (Start: 28 @40354 has 38 MA's), (Start: 45 @40279 has 228 MA's), (56, 40210), (58, 40207), (59, 40204), (71, 40150), (104, 40039), (120, 39937), (153, 39730),

Gene: Kahve_46 Start: 39989, Stop: 39435, Start Num: 45
Candidate Starts for Kahve_46:
(Start: 25 @40073 has 63 MA's), (Start: 27 @40067 has 4 MA's), (Start: 28 @40064 has 38 MA's), (Start: 45 @39989 has 228 MA's), (56, 39926), (58, 39923), (59, 39920), (71, 39866), (120, 39653), (134, 39587), (153, 39446),

Gene: Kailash_47 Start: 40336, Stop: 39776, Start Num: 45
Candidate Starts for Kailash_47:
(Start: 25 @40420 has 63 MA's), (Start: 27 @40414 has 4 MA's), (Start: 28 @40411 has 38 MA's), (Start: 45 @40336 has 228 MA's), (58, 40264), (59, 40261), (71, 40207), (104, 40096), (120, 39994), (153, 39787),

Gene: Kamiyu_45 Start: 40177, Stop: 39479, Start Num: 28
Candidate Starts for Kamiyu_45:
(7, 40264), (8, 40258), (10, 40246), (Start: 14 @40228 has 1 MA's), (16, 40222), (Start: 28 @40177 has 38 MA's), (43, 40105), (56, 40024), (59, 40018), (76, 39928), (83, 39889), (96, 39853), (106, 39796), (110, 39778), (119, 39718), (127, 39673), (132, 39637), (138, 39604), (142, 39571), (147, 39538), (150, 39499),

Gene: Kamryn_101 Start: 52411, Stop: 53043, Start Num: 36
Candidate Starts for Kamryn_101:
(6, 52300), (Start: 36 @52411 has 187 MA's), (111, 52750), (122, 52828), (140, 52936), (155, 53038),

Gene: Karn_46 Start: 39995, Stop: 39435, Start Num: 45
Candidate Starts for Karn_46:
(Start: 25 @40079 has 63 MA's), (Start: 27 @40073 has 4 MA's), (Start: 28 @40070 has 38 MA's), (Start: 45 @39995 has 228 MA's), (56, 39926), (58, 39923), (59, 39920), (71, 39866), (120, 39653), (153, 39446),

Gene: Karp_256 Start: 124709, Stop: 125182, Start Num: 57
Candidate Starts for Karp_256:
(53, 124691), (Start: 57 @124709 has 6 MA's), (87, 124835), (88, 124838), (99, 124871), (118, 124946), (122, 124982), (135, 125039), (138, 125057), (147, 125123), (150, 125162),

Gene: Katniss_48 Start: 40432, Stop: 39872, Start Num: 45
Candidate Starts for Katniss_48:
(Start: 25 @40516 has 63 MA's), (Start: 27 @40510 has 4 MA's), (Start: 28 @40507 has 38 MA's), (Start: 45 @40432 has 228 MA's), (56, 40363), (58, 40360), (59, 40357), (71, 40303), (120, 40090),

Gene: Kboogie_105 Start: 50769, Stop: 51401, Start Num: 36
Candidate Starts for Kboogie_105:
(Start: 36 @50769 has 187 MA's), (111, 51108), (122, 51186), (140, 51294), (155, 51396),

Gene: Keitherie_47 Start: 40335, Stop: 39775, Start Num: 45
Candidate Starts for Keitherie_47:
(Start: 25 @40419 has 63 MA's), (Start: 27 @40413 has 4 MA's), (Start: 28 @40410 has 38 MA's), (Start: 45 @40335 has 228 MA's), (56, 40266), (58, 40263), (59, 40260), (71, 40206), (120, 39993), (153, 39786),

Gene: Khaleesi_100 Start: 51704, Stop: 52342, Start Num: 36
Candidate Starts for Khaleesi_100:
(Start: 36 @51704 has 187 MA's), (111, 52049), (122, 52127), (140, 52235), (155, 52337),

Gene: Khan1_46 Start: 40010, Stop: 39456, Start Num: 45
Candidate Starts for Khan1_46:
(Start: 25 @40094 has 63 MA's), (Start: 27 @40088 has 4 MA's), (Start: 28 @40085 has 38 MA's), (Start: 45 @40010 has 228 MA's), (56, 39947), (58, 39944), (59, 39941), (71, 39887), (120, 39674), (134, 39608), (153, 39467),

Gene: Kikipoo_48 Start: 40507, Stop: 39863, Start Num: 25
Candidate Starts for Kikipoo_48:
(Start: 25 @40507 has 63 MA's), (Start: 27 @40501 has 4 MA's), (Start: 28 @40498 has 38 MA's), (Start: 45 @40423 has 228 MA's), (56, 40354), (58, 40351), (59, 40348), (71, 40294), (120, 40081),

Gene: Kimbrough_47 Start: 39996, Stop: 39436, Start Num: 45
Candidate Starts for Kimbrough_47:
(Start: 25 @40080 has 63 MA's), (Start: 27 @40074 has 4 MA's), (Start: 28 @40071 has 38 MA's), (Start: 45 @39996 has 228 MA's), (56, 39927), (58, 39924), (59, 39921), (71, 39867), (120, 39654), (153, 39447),

Gene: KingTut_38 Start: 35659, Stop: 35099, Start Num: 45

Candidate Starts for KingTut_38:
(Start: 25 @35743 has 63 MA's), (Start: 27 @35737 has 4 MA's), (Start: 28 @35734 has 38 MA's), (Start: 45 @35659 has 228 MA's), (56, 35590), (58, 35587), (59, 35584), (71, 35530), (120, 35317), (153, 35110),

Gene: KingVeVeVe_47 Start: 40266, Stop: 39706, Start Num: 45
Candidate Starts for KingVeVeVe_47:
(Start: 37 @40308 has 3 MA's), (Start: 45 @40266 has 228 MA's), (56, 40197), (58, 40194), (59, 40191), (71, 40137), (120, 39924), (153, 39717),

Gene: Kiwot_47 Start: 39928, Stop: 39284, Start Num: 25
Candidate Starts for Kiwot_47:
(Start: 25 @39928 has 63 MA's), (Start: 27 @39922 has 4 MA's), (Start: 28 @39919 has 38 MA's), (Start: 45 @39844 has 228 MA's), (56, 39775), (58, 39772), (59, 39769), (104, 39604), (120, 39502), (153, 39295),

Gene: KlimbOn_47 Start: 40357, Stop: 39713, Start Num: 25
Candidate Starts for KlimbOn_47:
(Start: 25 @40357 has 63 MA's), (Start: 27 @40351 has 4 MA's), (Start: 28 @40348 has 38 MA's), (Start: 45 @40273 has 228 MA's), (56, 40204), (58, 40201), (59, 40198), (71, 40144), (104, 40033), (120, 39931), (153, 39724),

Gene: Kloppinator_47 Start: 40299, Stop: 39739, Start Num: 45
Candidate Starts for Kloppinator_47:
(22, 40392), (Start: 27 @40377 has 4 MA's), (Start: 28 @40374 has 38 MA's), (Start: 45 @40299 has 228 MA's), (56, 40230), (58, 40227), (59, 40224), (104, 40059), (120, 39957), (153, 39750),

Gene: Koguma_98 Start: 49254, Stop: 49886, Start Num: 36
Candidate Starts for Koguma_98:
(Start: 36 @49254 has 187 MA's), (111, 49593), (122, 49671), (140, 49779), (155, 49881),

Gene: Konstantine_45 Start: 38208, Stop: 38840, Start Num: 34
Candidate Starts for Konstantine_45:
(Start: 34 @38208 has 11 MA's), (51, 38295), (Start: 52 @38304 has 2 MA's), (Start: 60 @38337 has 1 MA's), (69, 38382), (117, 38574), (118, 38583), (127, 38637), (133, 38676), (138, 38706), (149, 38802), (153, 38826),

Gene: Kronus_44 Start: 40787, Stop: 40089, Start Num: 28
Candidate Starts for Kronus_44:
(3, 41033), (4, 40967), (10, 40856), (Start: 14 @40838 has 1 MA's), (16, 40832), (Start: 28 @40787 has 38 MA's), (43, 40715), (56, 40634), (59, 40628), (76, 40538), (83, 40499), (96, 40463), (106, 40406), (110, 40388), (119, 40328), (127, 40283), (132, 40247), (136, 40223), (138, 40214), (142, 40181), (147, 40148), (150, 40109),

Gene: Kwadwo_46 Start: 39971, Stop: 39417, Start Num: 45
Candidate Starts for Kwadwo_46:
(Start: 25 @40055 has 63 MA's), (Start: 27 @40049 has 4 MA's), (Start: 28 @40046 has 38 MA's), (Start: 45 @39971 has 228 MA's), (56, 39908), (58, 39905), (59, 39902), (71, 39848), (120, 39635), (134, 39569), (153, 39428),

Gene: Kwksand96_46 Start: 39846, Stop: 39286, Start Num: 45
Candidate Starts for Kwksand96_46:

(Start: 25 @39930 has 63 MA's), (Start: 27 @39924 has 4 MA's), (Start: 28 @39921 has 38 MA's), (Start: 45 @39846 has 228 MA's), (56, 39777), (58, 39774), (59, 39771), (104, 39606), (120, 39504), (153, 39297),

Gene: LRRHood_96 Start: 51308, Stop: 51940, Start Num: 36
Candidate Starts for LRRHood_96:
(Start: 36 @51308 has 187 MA's), (111, 51647), (122, 51725), (140, 51833), (155, 51935),

Gene: Labeouficaum_46 Start: 39841, Stop: 39281, Start Num: 45
Candidate Starts for Labeouficaum_46:
(Start: 25 @39925 has 63 MA's), (Start: 27 @39919 has 4 MA's), (Start: 28 @39916 has 38 MA's), (Start: 45 @39841 has 228 MA's), (56, 39772), (58, 39769), (59, 39766), (104, 39601), (120, 39499), (153, 39292),

Gene: Labradorite_102 Start: 50025, Stop: 50657, Start Num: 36
Candidate Starts for Labradorite_102:
(Start: 12 @49938 has 6 MA's), (Start: 36 @50025 has 187 MA's), (111, 50364), (122, 50442), (140, 50550), (155, 50652),

Gene: Larson_48 Start: 40393, Stop: 39833, Start Num: 45
Candidate Starts for Larson_48:
(Start: 25 @40477 has 63 MA's), (Start: 27 @40471 has 4 MA's), (Start: 28 @40468 has 38 MA's), (Start: 45 @40393 has 228 MA's), (56, 40324), (58, 40321), (59, 40318), (71, 40264), (120, 40051), (153, 39844),

Gene: LasagnaCat_48 Start: 40417, Stop: 39857, Start Num: 45
Candidate Starts for LasagnaCat_48:
(Start: 25 @40501 has 63 MA's), (Start: 27 @40495 has 4 MA's), (Start: 28 @40492 has 38 MA's), (Start: 45 @40417 has 228 MA's), (56, 40348), (58, 40345), (59, 40342), (71, 40288), (120, 40075),

Gene: Lasso_47 Start: 40246, Stop: 39692, Start Num: 45
Candidate Starts for Lasso_47:
(Start: 25 @40330 has 63 MA's), (Start: 27 @40324 has 4 MA's), (Start: 28 @40321 has 38 MA's), (Start: 45 @40246 has 228 MA's), (56, 40183), (58, 40180), (59, 40177), (71, 40123), (120, 39910), (134, 39844), (153, 39703),

Gene: Latch_101 Start: 50338, Stop: 50970, Start Num: 36
Candidate Starts for Latch_101:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (111, 50677), (122, 50755), (140, 50863), (155, 50965),

Gene: Lee7_104 Start: 52340, Stop: 52972, Start Num: 36
Candidate Starts for Lee7_104:
(Start: 36 @52340 has 187 MA's), (111, 52679), (122, 52757), (140, 52865), (155, 52967),

Gene: LeeLot_47 Start: 40367, Stop: 39723, Start Num: 25
Candidate Starts for LeeLot_47:
(Start: 25 @40367 has 63 MA's), (Start: 27 @40361 has 4 MA's), (Start: 28 @40358 has 38 MA's), (Start: 45 @40283 has 228 MA's), (56, 40214), (58, 40211), (59, 40208), (104, 40043), (120, 39941), (153, 39734),

Gene: Lego3393_46 Start: 40426, Stop: 39866, Start Num: 45
Candidate Starts for Lego3393_46:

(Start: 25 @40510 has 63 MA's), (Start: 27 @40504 has 4 MA's), (Start: 28 @40501 has 38 MA's), (Start: 45 @40426 has 228 MA's), (56, 40357), (58, 40354), (59, 40351), (71, 40297), (120, 40084),

Gene: Legolas_47 Start: 40016, Stop: 39462, Start Num: 45
Candidate Starts for Legolas_47:
(Start: 25 @40100 has 63 MA's), (Start: 27 @40094 has 4 MA's), (Start: 28 @40091 has 38 MA's), (Start: 45 @40016 has 228 MA's), (56, 39953), (58, 39950), (59, 39947), (71, 39893), (120, 39680), (134, 39614), (153, 39473),

Gene: Lehmann_47 Start: 39900, Stop: 39256, Start Num: 25
Candidate Starts for Lehmann_47:
(Start: 25 @39900 has 63 MA's), (Start: 27 @39894 has 4 MA's), (Start: 28 @39891 has 38 MA's), (Start: 45 @39816 has 228 MA's), (56, 39747), (58, 39744), (59, 39741), (71, 39687), (104, 39576), (120, 39474), (153, 39267),

Gene: LeiMonet_47 Start: 39978, Stop: 39424, Start Num: 45
Candidate Starts for LeiMonet_47:
(Start: 25 @40062 has 63 MA's), (Start: 27 @40056 has 4 MA's), (Start: 28 @40053 has 38 MA's), (Start: 45 @39978 has 228 MA's), (56, 39915), (58, 39912), (59, 39909), (71, 39855), (120, 39642), (153, 39435),

Gene: LemonSlice_47 Start: 39983, Stop: 39423, Start Num: 45
Candidate Starts for LemonSlice_47:
(Start: 25 @40067 has 63 MA's), (Start: 27 @40061 has 4 MA's), (Start: 28 @40058 has 38 MA's), (Start: 45 @39983 has 228 MA's), (56, 39914), (58, 39911), (59, 39908), (104, 39743), (120, 39641), (153, 39434),

Gene: LestyG_45 Start: 40232, Stop: 39510, Start Num: 21
Candidate Starts for LestyG_45:
(Start: 21 @40232 has 14 MA's), (Start: 28 @40208 has 38 MA's), (43, 40136), (56, 40055), (59, 40049), (76, 39959), (83, 39920), (96, 39884), (106, 39827), (110, 39809), (119, 39749), (127, 39704), (132, 39668), (138, 39635), (142, 39602), (147, 39569), (150, 39530),

Gene: Lethe_100 Start: 51781, Stop: 52413, Start Num: 36
Candidate Starts for Lethe_100:
(Start: 36 @51781 has 187 MA's), (111, 52120), (122, 52198), (140, 52306), (155, 52408),

Gene: LifeSavor_100 Start: 50939, Stop: 51658, Start Num: 12
Candidate Starts for LifeSavor_100:
(Start: 12 @50939 has 6 MA's), (Start: 36 @51026 has 187 MA's), (111, 51365), (122, 51443), (140, 51551), (155, 51653),

Gene: LinStu_101 Start: 51916, Stop: 52548, Start Num: 36
Candidate Starts for LinStu_101:
(Start: 36 @51916 has 187 MA's), (111, 52255), (122, 52333), (140, 52441), (155, 52543),

Gene: Littleton_101 Start: 51158, Stop: 51790, Start Num: 36
Candidate Starts for Littleton_101:
(6, 51047), (Start: 36 @51158 has 187 MA's), (111, 51497), (122, 51575), (140, 51683), (155, 51785),

Gene: Loanshark_101 Start: 51927, Stop: 52565, Start Num: 36
Candidate Starts for Loanshark_101:
(Start: 36 @51927 has 187 MA's), (111, 52272), (122, 52350), (140, 52458), (155, 52560),

Gene: LolaVinca_102 Start: 52032, Stop: 52664, Start Num: 36
Candidate Starts for LolaVinca_102:
(Start: 12 @51945 has 6 MA's), (Start: 36 @52032 has 187 MA's), (111, 52371), (122, 52449), (140, 52557), (155, 52659),

Gene: Longacauda_46 Start: 39979, Stop: 39425, Start Num: 45
Candidate Starts for Longacauda_46:
(Start: 25 @40063 has 63 MA's), (Start: 27 @40057 has 4 MA's), (Start: 28 @40054 has 38 MA's), (Start: 45 @39979 has 228 MA's), (56, 39916), (58, 39913), (59, 39910), (71, 39856), (120, 39643), (134, 39577), (153, 39436),

Gene: LookingGlass_102 Start: 51850, Stop: 52488, Start Num: 36
Candidate Starts for LookingGlass_102:
(Start: 36 @51850 has 187 MA's), (111, 52195), (122, 52273), (140, 52381), (155, 52483),

Gene: Lopsy_46 Start: 39916, Stop: 39278, Start Num: 25
Candidate Starts for Lopsy_46:
(Start: 25 @39916 has 63 MA's), (Start: 27 @39910 has 4 MA's), (Start: 28 @39907 has 38 MA's), (Start: 45 @39832 has 228 MA's), (56, 39769), (58, 39766), (59, 39763), (104, 39598), (120, 39496), (153, 39289),

Gene: LordLeafolot_106 Start: 52996, Stop: 53628, Start Num: 36
Candidate Starts for LordLeafolot_106:
(Start: 12 @52909 has 6 MA's), (Start: 36 @52996 has 187 MA's), (111, 53335), (122, 53413), (140, 53521), (155, 53623),

Gene: LostAndPhound_46 Start: 39986, Stop: 39426, Start Num: 45
Candidate Starts for LostAndPhound_46:
(Start: 25 @40070 has 63 MA's), (Start: 27 @40064 has 4 MA's), (Start: 28 @40061 has 38 MA's), (Start: 45 @39986 has 228 MA's), (56, 39917), (58, 39914), (59, 39911), (120, 39644), (134, 39578), (153, 39437),

Gene: LuckyMarjie_46 Start: 39986, Stop: 39432, Start Num: 45
Candidate Starts for LuckyMarjie_46:
(Start: 25 @40070 has 63 MA's), (Start: 27 @40064 has 4 MA's), (Start: 28 @40061 has 38 MA's), (Start: 45 @39986 has 228 MA's), (56, 39923), (58, 39920), (59, 39917), (71, 39863), (120, 39650), (134, 39584), (153, 39443),

Gene: Lukilu_92 Start: 51439, Stop: 52071, Start Num: 36
Candidate Starts for Lukilu_92:
(Start: 36 @51439 has 187 MA's), (111, 51778), (122, 51856), (140, 51964), (155, 52066),

Gene: Lulumae_46 Start: 40055, Stop: 39417, Start Num: 25
Candidate Starts for Lulumae_46:
(Start: 25 @40055 has 63 MA's), (Start: 27 @40049 has 4 MA's), (Start: 28 @40046 has 38 MA's), (Start: 45 @39971 has 228 MA's), (56, 39908), (58, 39905), (59, 39902), (71, 39848), (120, 39635), (134, 39569), (153, 39428),

Gene: Lulwa_47 Start: 40264, Stop: 39704, Start Num: 45
Candidate Starts for Lulwa_47:
(Start: 25 @40348 has 63 MA's), (Start: 27 @40342 has 4 MA's), (Start: 28 @40339 has 38 MA's), (Start: 45 @40264 has 228 MA's), (56, 40195), (58, 40192), (59, 40189), (71, 40135), (104, 40024),

(120, 39922), (153, 39715),

Gene: Lumine_46 Start: 39967, Stop: 39413, Start Num: 45
Candidate Starts for Lumine_46:
(Start: 25 @40051 has 63 MA's), (Start: 27 @40045 has 4 MA's), (Start: 28 @40042 has 38 MA's), (Start: 45 @39967 has 228 MA's), (56, 39904), (58, 39901), (59, 39898), (71, 39844), (120, 39631), (134, 39565), (153, 39424),

Gene: Lunareta_100 Start: 52949, Stop: 53581, Start Num: 36
Candidate Starts for Lunareta_100:
(Start: 36 @52949 has 187 MA's), (111, 53288), (122, 53366), (140, 53474), (155, 53576),

Gene: MRabcd_46 Start: 39977, Stop: 39417, Start Num: 45
Candidate Starts for MRabcd_46:
(Start: 25 @40061 has 63 MA's), (Start: 27 @40055 has 4 MA's), (Start: 28 @40052 has 38 MA's), (Start: 45 @39977 has 228 MA's), (56, 39908), (58, 39905), (59, 39902), (71, 39848), (120, 39635), (153, 39428),

Gene: Maby2021_101 Start: 51803, Stop: 52435, Start Num: 36
Candidate Starts for Maby2021_101:
(Start: 36 @51803 has 187 MA's), (111, 52142), (122, 52220), (140, 52328), (155, 52430),

Gene: Mag7_46 Start: 39886, Stop: 39326, Start Num: 45
Candidate Starts for Mag7_46:
(Start: 25 @39970 has 63 MA's), (Start: 27 @39964 has 4 MA's), (Start: 28 @39961 has 38 MA's), (Start: 45 @39886 has 228 MA's), (58, 39814), (59, 39811), (71, 39757), (104, 39646), (120, 39544), (153, 39337),

Gene: Magic8_47 Start: 40321, Stop: 39761, Start Num: 45
Candidate Starts for Magic8_47:
(Start: 25 @40405 has 63 MA's), (Start: 27 @40399 has 4 MA's), (Start: 28 @40396 has 38 MA's), (Start: 45 @40321 has 228 MA's), (58, 40249), (59, 40246), (71, 40192), (104, 40081), (120, 39979), (153, 39772),

Gene: Maguvora_106 Start: 52383, Stop: 53015, Start Num: 36
Candidate Starts for Maguvora_106:
(Start: 12 @52296 has 6 MA's), (Start: 36 @52383 has 187 MA's), (111, 52722), (122, 52800), (140, 52908), (155, 53010),

Gene: Mahdia_50 Start: 37783, Stop: 37172, Start Num: 27
Candidate Starts for Mahdia_50:
(Start: 27 @37783 has 4 MA's), (73, 37585), (113, 37432), (115, 37426), (118, 37408), (139, 37285), (143, 37255),

Gene: MakoManhole_42 Start: 35872, Stop: 35297, Start Num: 35
Candidate Starts for MakoManhole_42:
(Start: 35 @35872 has 11 MA's), (46, 35833), (69, 35722), (80, 35683), (114, 35560), (117, 35548), (118, 35539), (124, 35497), (125, 35494), (126, 35491), (128, 35482),

Gene: Mana_46 Start: 39986, Stop: 39432, Start Num: 45
Candidate Starts for Mana_46:
(Start: 25 @40070 has 63 MA's), (Start: 28 @40061 has 38 MA's), (Start: 45 @39986 has 228 MA's), (56, 39923), (58, 39920), (59, 39917), (71, 39863), (120, 39650), (134, 39584), (153, 39443),

Gene: Manad_46 Start: 39912, Stop: 39277, Start Num: 28
Candidate Starts for Manad_46:
(5, 40035), (22, 39930), (Start: 27 @39915 has 4 MA's), (Start: 28 @39912 has 38 MA's), (Start: 45 @39837 has 228 MA's), (56, 39768), (58, 39765), (59, 39762), (104, 39597), (120, 39495), (153, 39288),

Gene: Mangeria_101 Start: 51872, Stop: 52504, Start Num: 36
Candidate Starts for Mangeria_101:
(Start: 36 @51872 has 187 MA's), (111, 52211), (122, 52289), (140, 52397), (155, 52499),

Gene: Marley1013_45 Start: 40986, Stop: 40288, Start Num: 28
Candidate Starts for Marley1013_45:
(Start: 21 @41010 has 14 MA's), (Start: 28 @40986 has 38 MA's), (43, 40914), (56, 40833), (59, 40827), (76, 40737), (83, 40698), (96, 40662), (106, 40605), (110, 40587), (119, 40527), (127, 40482), (132, 40446), (138, 40413), (142, 40380), (147, 40347), (150, 40308),

Gene: Marlia_45 Start: 40189, Stop: 39491, Start Num: 28
Candidate Starts for Marlia_45:
(3, 40435), (4, 40369), (10, 40258), (Start: 14 @40240 has 1 MA's), (16, 40234), (Start: 28 @40189 has 38 MA's), (43, 40117), (56, 40036), (59, 40030), (76, 39940), (83, 39901), (96, 39865), (106, 39808), (110, 39790), (119, 39730), (127, 39685), (132, 39649), (138, 39616), (142, 39583), (147, 39550), (150, 39511),

Gene: Maru_46 Start: 39929, Stop: 39375, Start Num: 45
Candidate Starts for Maru_46:
(Start: 25 @40013 has 63 MA's), (Start: 27 @40007 has 4 MA's), (Start: 28 @40004 has 38 MA's), (Start: 45 @39929 has 228 MA's), (56, 39866), (58, 39863), (59, 39860), (71, 39806), (120, 39593), (134, 39527), (153, 39386),

Gene: Maskar_47 Start: 40051, Stop: 39407, Start Num: 25
Candidate Starts for Maskar_47:
(Start: 25 @40051 has 63 MA's), (Start: 27 @40045 has 4 MA's), (Start: 28 @40042 has 38 MA's), (Start: 45 @39967 has 228 MA's), (56, 39898), (58, 39895), (59, 39892), (71, 39838), (120, 39625),

Gene: Matalotodo_47 Start: 40281, Stop: 39721, Start Num: 45
Candidate Starts for Matalotodo_47:
(Start: 25 @40365 has 63 MA's), (Start: 27 @40359 has 4 MA's), (Start: 28 @40356 has 38 MA's), (Start: 45 @40281 has 228 MA's), (56, 40212), (58, 40209), (59, 40206), (104, 40041), (120, 39939), (153, 39732),

Gene: Matsumoto_99 Start: 50654, Stop: 51286, Start Num: 36
Candidate Starts for Matsumoto_99:
(Start: 12 @50567 has 6 MA's), (Start: 36 @50654 has 187 MA's), (111, 50993), (122, 51071), (140, 51179), (155, 51281),

Gene: Maturis_99 Start: 51445, Stop: 52077, Start Num: 36
Candidate Starts for Maturis_99:
(Start: 36 @51445 has 187 MA's), (111, 51784), (122, 51862), (140, 51970), (155, 52072),

Gene: McGee_103 Start: 50410, Stop: 51042, Start Num: 36
Candidate Starts for McGee_103:
(Start: 36 @50410 has 187 MA's), (111, 50749), (122, 50827), (140, 50935), (155, 51037),

Gene: McWolfish_99 Start: 51587, Stop: 52225, Start Num: 36
Candidate Starts for McWolfish_99:
(Start: 36 @51587 has 187 MA's), (111, 51932), (122, 52010), (140, 52118), (155, 52220),

Gene: Mcshane_46 Start: 40062, Stop: 39418, Start Num: 25
Candidate Starts for Mcshane_46:
(Start: 25 @40062 has 63 MA's), (Start: 27 @40056 has 4 MA's), (Start: 28 @40053 has 38 MA's), (Start: 45 @39978 has 228 MA's), (56, 39909), (58, 39906), (59, 39903), (71, 39849), (120, 39636), (153, 39429),

Gene: Mecca_46 Start: 39984, Stop: 39424, Start Num: 45
Candidate Starts for Mecca_46:
(Start: 25 @40068 has 63 MA's), (Start: 27 @40062 has 4 MA's), (Start: 28 @40059 has 38 MA's), (Start: 45 @39984 has 228 MA's), (56, 39915), (58, 39912), (59, 39909), (71, 39855), (120, 39642), (153, 39435),

Gene: Megamind_100 Start: 51470, Stop: 52108, Start Num: 36
Candidate Starts for Megamind_100:
(Start: 36 @51470 has 187 MA's), (111, 51815), (122, 51893), (140, 52001), (155, 52103),

Gene: Megamind20_47 Start: 40006, Stop: 39446, Start Num: 45
Candidate Starts for Megamind20_47:
(Start: 25 @40090 has 63 MA's), (Start: 27 @40084 has 4 MA's), (Start: 28 @40081 has 38 MA's), (Start: 45 @40006 has 228 MA's), (56, 39937), (58, 39934), (59, 39931), (71, 39877), (120, 39664), (153, 39457),

Gene: Megatron_48 Start: 40498, Stop: 39854, Start Num: 25
Candidate Starts for Megatron_48:
(Start: 25 @40498 has 63 MA's), (Start: 27 @40492 has 4 MA's), (Start: 28 @40489 has 38 MA's), (Start: 45 @40414 has 228 MA's), (56, 40345), (58, 40342), (59, 40339), (71, 40285), (120, 40072),

Gene: Megatron06_42 Start: 37540, Stop: 38172, Start Num: 34
Candidate Starts for Megatron06_42:
(Start: 34 @37540 has 11 MA's), (51, 37627), (Start: 52 @37636 has 2 MA's), (Start: 60 @37669 has 1 MA's), (69, 37714), (117, 37906), (118, 37915), (127, 37969), (133, 38008), (138, 38038), (149, 38134), (153, 38158),

Gene: Melc17_47 Start: 40360, Stop: 39716, Start Num: 25
Candidate Starts for Melc17_47:
(Start: 25 @40360 has 63 MA's), (Start: 27 @40354 has 4 MA's), (Start: 28 @40351 has 38 MA's), (Start: 45 @40276 has 228 MA's), (56, 40207), (58, 40204), (59, 40201), (71, 40147), (104, 40036), (120, 39934), (153, 39727),

Gene: Melpomini_95 Start: 48945, Stop: 49577, Start Num: 36
Candidate Starts for Melpomini_95:
(Start: 36 @48945 has 187 MA's), (111, 49284), (122, 49362), (140, 49470), (155, 49572),

Gene: MelsMeow_47 Start: 40017, Stop: 39457, Start Num: 45
Candidate Starts for MelsMeow_47:
(Start: 25 @40101 has 63 MA's), (Start: 27 @40095 has 4 MA's), (Start: 28 @40092 has 38 MA's), (Start: 45 @40017 has 228 MA's), (56, 39948), (58, 39945), (59, 39942), (71, 39888), (120, 39675),

Gene: Merry_ Start: 11517, Stop: 12002, Start Num: 52
Candidate Starts for Merry_:
(Start: 52 @11517 has 2 MA's), (82, 11652), (93, 11685), (108, 11730), (118, 11772), (123, 11811), (134, 11850), (141, 11907), (145, 11925), (150, 11982),

Gene: Mesh1_47 Start: 40293, Stop: 39733, Start Num: 45
Candidate Starts for Mesh1_47:
(Start: 25 @40377 has 63 MA's), (Start: 27 @40371 has 4 MA's), (Start: 28 @40368 has 38 MA's), (Start: 45 @40293 has 228 MA's), (56, 40224), (58, 40221), (59, 40218), (104, 40053), (120, 39951), (153, 39744),

Gene: Mesmerelda_46 Start: 39988, Stop: 39434, Start Num: 45
Candidate Starts for Mesmerelda_46:
(Start: 25 @40072 has 63 MA's), (Start: 27 @40066 has 4 MA's), (Start: 28 @40063 has 38 MA's), (Start: 45 @39988 has 228 MA's), (56, 39925), (58, 39922), (59, 39919), (71, 39865), (120, 39652), (134, 39586), (153, 39445),

Gene: MichaelPhcott_46 Start: 39883, Stop: 39323, Start Num: 45
Candidate Starts for MichaelPhcott_46:
(Start: 25 @39967 has 63 MA's), (Start: 27 @39961 has 4 MA's), (Start: 28 @39958 has 38 MA's), (Start: 45 @39883 has 228 MA's), (58, 39811), (59, 39808), (71, 39754), (104, 39643), (120, 39541), (153, 39334),

Gene: MikeLiesIn_102 Start: 51817, Stop: 52455, Start Num: 36
Candidate Starts for MikeLiesIn_102:
(Start: 36 @51817 has 187 MA's), (111, 52162), (122, 52240), (140, 52348), (155, 52450),

Gene: Mikota_47 Start: 40263, Stop: 39703, Start Num: 45
Candidate Starts for Mikota_47:
(Start: 37 @40305 has 3 MA's), (Start: 45 @40263 has 228 MA's), (56, 40194), (58, 40191), (59, 40188), (71, 40134), (120, 39921), (153, 39714),

Gene: Mikro_99 Start: 53045, Stop: 53677, Start Num: 36
Candidate Starts for Mikro_99:
(Start: 36 @53045 has 187 MA's), (111, 53384), (122, 53462), (140, 53570), (155, 53672),

Gene: MiniBoss_47 Start: 40269, Stop: 39709, Start Num: 45
Candidate Starts for MiniBoss_47:
(Start: 37 @40311 has 3 MA's), (Start: 45 @40269 has 228 MA's), (56, 40200), (58, 40197), (59, 40194), (120, 39927), (134, 39861), (153, 39720),

Gene: MitKao_47 Start: 39984, Stop: 39424, Start Num: 45
Candidate Starts for MitKao_47:
(Start: 25 @40068 has 63 MA's), (Start: 27 @40062 has 4 MA's), (Start: 28 @40059 has 38 MA's), (Start: 45 @39984 has 228 MA's), (56, 39915), (58, 39912), (59, 39909), (104, 39744), (120, 39642), (153, 39435),

Gene: MmasiCarm_45 Start: 40214, Stop: 39492, Start Num: 21
Candidate Starts for MmasiCarm_45:
(Start: 21 @40214 has 14 MA's), (Start: 28 @40190 has 38 MA's), (43, 40118), (56, 40037), (59, 40031), (76, 39941), (83, 39902), (96, 39866), (106, 39809), (110, 39791), (119, 39731), (127, 39686), (132, 39650), (138, 39617), (142, 39584), (147, 39551), (150, 39512),

Gene: MoMoMixon_102 Start: 51293, Stop: 51931, Start Num: 36
Candidate Starts for MoMoMixon_102:
(Start: 36 @51293 has 187 MA's), (111, 51638), (122, 51716), (140, 51824), (155, 51926),

Gene: Moby_92 Start: 47832, Stop: 48464, Start Num: 36
Candidate Starts for Moby_92:
(Start: 36 @47832 has 187 MA's), (111, 48171), (122, 48249), (140, 48357), (155, 48459),

Gene: ModicumRichard_152 Start: 79699, Stop: 79190, Start Num: 54
Candidate Starts for ModicumRichard_152:
(40, 79780), (47, 79741), (Start: 54 @79699 has 5 MA's), (64, 79657), (84, 79552), (99, 79507), (117, 79435), (138, 79318), (148, 79234),

Gene: Moiqah_92 Start: 47832, Stop: 48464, Start Num: 36
Candidate Starts for Moiqah_92:
(Start: 36 @47832 has 187 MA's), (111, 48171), (122, 48249), (140, 48357), (155, 48459),

Gene: Momo_100 Start: 50338, Stop: 50970, Start Num: 36
Candidate Starts for Momo_100:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (122, 50755), (140, 50863), (155, 50965),

Gene: Montpel_100 Start: 52947, Stop: 53579, Start Num: 36
Candidate Starts for Montpel_100:
(Start: 36 @52947 has 187 MA's), (111, 53286), (122, 53364), (140, 53472), (155, 53574),

Gene: Morgana_159 Start: 80415, Stop: 79906, Start Num: 54
Candidate Starts for Morgana_159:
(40, 80496), (42, 80487), (47, 80457), (Start: 54 @80415 has 5 MA's), (64, 80373), (84, 80268), (99, 80223), (138, 80034), (148, 79950),

Gene: Morgushi_47 Start: 39985, Stop: 39425, Start Num: 45
Candidate Starts for Morgushi_47:
(Start: 25 @40069 has 63 MA's), (Start: 27 @40063 has 4 MA's), (Start: 28 @40060 has 38 MA's), (Start: 45 @39985 has 228 MA's), (56, 39916), (58, 39913), (59, 39910), (71, 39856), (120, 39643), (134, 39577), (153, 39436),

Gene: Morizzled23_101 Start: 50697, Stop: 51335, Start Num: 36
Candidate Starts for Morizzled23_101:
(Start: 36 @50697 has 187 MA's), (111, 51042), (122, 51120), (140, 51228), (155, 51330),

Gene: Mortcellus_44 Start: 40866, Stop: 40144, Start Num: 21
Candidate Starts for Mortcellus_44:
(Start: 21 @40866 has 14 MA's), (Start: 28 @40842 has 38 MA's), (43, 40770), (56, 40689), (59, 40683), (76, 40593), (83, 40554), (96, 40518), (106, 40461), (110, 40443), (119, 40383), (127, 40338), (132, 40302), (136, 40278), (138, 40269), (142, 40236), (147, 40203), (150, 40164),

Gene: Morty_48 Start: 40423, Stop: 39863, Start Num: 45
Candidate Starts for Morty_48:
(Start: 25 @40507 has 63 MA's), (Start: 27 @40501 has 4 MA's), (Start: 28 @40498 has 38 MA's), (Start: 45 @40423 has 228 MA's), (56, 40354), (58, 40351), (59, 40348), (71, 40294), (120, 40081),

Gene: Morty007_45 Start: 40986, Stop: 40288, Start Num: 28

Candidate Starts for Morty007_45:
(Start: 21 @41010 has 14 MA's), (Start: 28 @40986 has 38 MA's), (43, 40914), (56, 40833), (59, 40827), (76, 40737), (83, 40698), (96, 40662), (106, 40605), (110, 40587), (119, 40527), (127, 40482), (132, 40446), (138, 40413), (142, 40380), (147, 40347), (150, 40308),

Gene: Mosaic_46 Start: 40062, Stop: 39418, Start Num: 25
Candidate Starts for Mosaic_46:
(Start: 25 @40062 has 63 MA's), (Start: 27 @40056 has 4 MA's), (Start: 28 @40053 has 38 MA's), (Start: 45 @39978 has 228 MA's), (56, 39909), (58, 39906), (59, 39903), (104, 39738), (120, 39636), (153, 39429),

Gene: MossRose_42 Start: 35851, Stop: 35276, Start Num: 35
Candidate Starts for MossRose_42:
(Start: 35 @35851 has 11 MA's), (46, 35812), (69, 35701), (80, 35662), (114, 35539), (117, 35527), (118, 35518), (124, 35476), (125, 35473), (126, 35470), (128, 35461),

Gene: MrPhizzler_47 Start: 39987, Stop: 39433, Start Num: 45
Candidate Starts for MrPhizzler_47:
(Start: 25 @40071 has 63 MA's), (Start: 27 @40065 has 4 MA's), (Start: 28 @40062 has 38 MA's), (Start: 45 @39987 has 228 MA's), (56, 39924), (58, 39921), (59, 39918), (71, 39864), (120, 39651), (134, 39585), (153, 39444),

Gene: Mulan_47 Start: 40140, Stop: 39580, Start Num: 45
Candidate Starts for Mulan_47:
(Start: 25 @40224 has 63 MA's), (Start: 27 @40218 has 4 MA's), (Start: 28 @40215 has 38 MA's), (Start: 45 @40140 has 228 MA's), (56, 40071), (58, 40068), (59, 40065), (71, 40011), (120, 39798),

Gene: Mulaychimus_45 Start: 40172, Stop: 39474, Start Num: 28
Candidate Starts for Mulaychimus_45:
(3, 40418), (4, 40352), (10, 40241), (Start: 14 @40223 has 1 MA's), (16, 40217), (Start: 28 @40172 has 38 MA's), (43, 40100), (56, 40019), (59, 40013), (76, 39923), (83, 39884), (96, 39848), (106, 39791), (110, 39773), (119, 39713), (127, 39668), (132, 39632), (138, 39599), (142, 39566), (147, 39533), (150, 39494),

Gene: Murdoc_47 Start: 40355, Stop: 39717, Start Num: 25
Candidate Starts for Murdoc_47:
(Start: 25 @40355 has 63 MA's), (Start: 27 @40349 has 4 MA's), (Start: 28 @40346 has 38 MA's), (Start: 45 @40271 has 228 MA's), (56, 40208), (58, 40205), (59, 40202), (71, 40148), (120, 39935), (134, 39869), (153, 39728),

Gene: Mutante_46 Start: 39990, Stop: 39430, Start Num: 45
Candidate Starts for Mutante_46:
(Start: 25 @40074 has 63 MA's), (Start: 27 @40068 has 4 MA's), (Start: 28 @40065 has 38 MA's), (Start: 45 @39990 has 228 MA's), (56, 39921), (58, 39918), (59, 39915), (71, 39861), (120, 39648), (153, 39441),

Gene: Myrna_229 Start: 133429, Stop: 134043, Start Num: 38
Candidate Starts for Myrna_229:
(Start: 38 @133429 has 2 MA's), (48, 133477), (50, 133492), (63, 133555), (98, 133681), (111, 133750), (122, 133828), (140, 133936),

Gene: NHagos_40 Start: 34451, Stop: 33894, Start Num: 35
Candidate Starts for NHagos_40:

(1, 34970), (2, 34805), (17, 34526), (Start: 25 @34490 has 63 MA's), (Start: 28 @34481 has 38 MA's), (Start: 35 @34451 has 11 MA's), (51, 34388), (55, 34352), (70, 34301), (90, 34226), (118, 34136), (133, 34049), (150, 33914),

Gene: Nacho_0048 Start: 40501, Stop: 39857, Start Num: 25
Candidate Starts for Nacho_0048:
(Start: 25 @40501 has 63 MA's), (Start: 27 @40495 has 4 MA's), (Start: 28 @40492 has 38 MA's), (Start: 45 @40417 has 228 MA's), (56, 40348), (58, 40345), (59, 40342), (71, 40288), (120, 40075),

Gene: Naija_100 Start: 50338, Stop: 50970, Start Num: 36
Candidate Starts for Naija_100:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (111, 50677), (122, 50755), (140, 50863), (155, 50965),

Gene: Napoleon13_97 Start: 49383, Stop: 50015, Start Num: 36
Candidate Starts for Napoleon13_97:
(Start: 36 @49383 has 187 MA's), (111, 49722), (122, 49800), (140, 49908), (155, 50010),

Gene: Nappy_104 Start: 52733, Stop: 53365, Start Num: 36
Candidate Starts for Nappy_104:
(19, 52670), (Start: 36 @52733 has 187 MA's), (111, 53072), (122, 53150), (140, 53258), (155, 53360),

Gene: Nathan_47 Start: 40315, Stop: 39755, Start Num: 45
Candidate Starts for Nathan_47:
(Start: 25 @40399 has 63 MA's), (Start: 27 @40393 has 4 MA's), (Start: 28 @40390 has 38 MA's), (Start: 45 @40315 has 228 MA's), (56, 40246), (58, 40243), (59, 40240), (71, 40186), (120, 39973), (134, 39907), (153, 39766),

Gene: Naval22_109 Start: 53313, Stop: 53945, Start Num: 36
Candidate Starts for Naval22_109:
(Start: 36 @53313 has 187 MA's), (111, 53652), (122, 53730), (140, 53838), (155, 53940),

Gene: NedWong_102 Start: 51804, Stop: 52442, Start Num: 36
Candidate Starts for NedWong_102:
(Start: 36 @51804 has 187 MA's), (111, 52149), (122, 52227), (140, 52335), (155, 52437),

Gene: Nehme_46 Start: 40014, Stop: 39454, Start Num: 45
Candidate Starts for Nehme_46:
(Start: 25 @40098 has 63 MA's), (Start: 27 @40092 has 4 MA's), (Start: 28 @40089 has 38 MA's), (Start: 45 @40014 has 228 MA's), (56, 39945), (58, 39942), (59, 39939), (71, 39885), (120, 39672), (153, 39465),

Gene: Neos5_45 Start: 41052, Stop: 40303, Start Num: 14
Candidate Starts for Neos5_45:
(3, 41247), (4, 41181), (10, 41070), (Start: 14 @41052 has 1 MA's), (16, 41046), (Start: 28 @41001 has 38 MA's), (43, 40929), (56, 40848), (59, 40842), (76, 40752), (83, 40713), (96, 40677), (106, 40620), (110, 40602), (119, 40542), (127, 40497), (132, 40461), (138, 40428), (142, 40395), (147, 40362), (150, 40323),

Gene: Newman_47 Start: 40360, Stop: 39716, Start Num: 25
Candidate Starts for Newman_47:
(Start: 25 @40360 has 63 MA's), (Start: 27 @40354 has 4 MA's), (Start: 28 @40351 has 38 MA's), (Start: 45 @40276 has 228 MA's), (56, 40207), (58, 40204), (59, 40201), (71, 40147), (104, 40036),

(120, 39934), (153, 39727),

Gene: Ngannou_97 Start: 49320, Stop: 49952, Start Num: 36
Candidate Starts for Ngannou_97:
(Start: 12 @49233 has 6 MA's), (Start: 36 @49320 has 187 MA's), (111, 49659), (122, 49737), (140, 49845), (155, 49947),

Gene: NiaNia_49 Start: 40007, Stop: 39453, Start Num: 45
Candidate Starts for NiaNia_49:
(Start: 25 @40091 has 63 MA's), (Start: 27 @40085 has 4 MA's), (Start: 28 @40082 has 38 MA's), (Start: 45 @40007 has 228 MA's), (56, 39944), (58, 39941), (59, 39938), (71, 39884), (120, 39671), (134, 39605), (153, 39464),

Gene: Nicole21_47 Start: 40277, Stop: 39717, Start Num: 45
Candidate Starts for Nicole21_47:
(Start: 25 @40361 has 63 MA's), (Start: 27 @40355 has 4 MA's), (Start: 28 @40352 has 38 MA's), (Start: 45 @40277 has 228 MA's), (58, 40205), (59, 40202), (71, 40148), (104, 40037), (120, 39935), (153, 39728),

Gene: Nidhogg_102 Start: 51544, Stop: 52176, Start Num: 36
Candidate Starts for Nidhogg_102:
(Start: 36 @51544 has 187 MA's), (111, 51883), (122, 51961), (140, 52069), (155, 52171),

Gene: Nish23_43 Start: 37008, Stop: 37640, Start Num: 34
Candidate Starts for Nish23_43:
(Start: 34 @37008 has 11 MA's), (51, 37095), (Start: 52 @37104 has 2 MA's), (Start: 54 @37116 has 5 MA's), (Start: 60 @37137 has 1 MA's), (69, 37182), (97, 37296), (117, 37374), (118, 37383), (127, 37437), (133, 37476), (138, 37506), (145, 37554), (149, 37602), (153, 37626),

Gene: NoodleTree_108 Start: 52136, Stop: 52768, Start Num: 36
Candidate Starts for NoodleTree_108:
(Start: 12 @52049 has 6 MA's), (Start: 36 @52136 has 187 MA's), (111, 52475), (122, 52553), (140, 52661), (155, 52763),

Gene: Norm_102 Start: 52733, Stop: 53371, Start Num: 36
Candidate Starts for Norm_102:
(Start: 36 @52733 has 187 MA's), (111, 53078), (122, 53156), (140, 53264), (155, 53366),

Gene: Nova1_47 Start: 40014, Stop: 39370, Start Num: 25
Candidate Starts for Nova1_47:
(Start: 25 @40014 has 63 MA's), (Start: 27 @40008 has 4 MA's), (Start: 28 @40005 has 38 MA's), (Start: 45 @39930 has 228 MA's), (56, 39861), (58, 39858), (59, 39855), (71, 39801), (120, 39588), (153, 39381),

Gene: Nozo_45 Start: 40966, Stop: 40268, Start Num: 28
Candidate Starts for Nozo_45:
(3, 41212), (4, 41146), (10, 41035), (Start: 14 @41017 has 1 MA's), (16, 41011), (Start: 28 @40966 has 38 MA's), (43, 40894), (56, 40813), (59, 40807), (76, 40717), (83, 40678), (96, 40642), (106, 40585), (110, 40567), (119, 40507), (127, 40462), (132, 40426), (138, 40393), (142, 40360), (147, 40327), (150, 40288),

Gene: NuevoMundo_107 Start: 54087, Stop: 54719, Start Num: 36
Candidate Starts for NuevoMundo_107:

(Start: 36 @54087 has 187 MA's), (111, 54426), (122, 54504), (140, 54612), (155, 54714),

Gene: Numberten_47 Start: 40283, Stop: 39723, Start Num: 45
Candidate Starts for Numberten_47:
(Start: 25 @40367 has 63 MA's), (Start: 27 @40361 has 4 MA's), (Start: 28 @40358 has 38 MA's), (Start: 45 @40283 has 228 MA's), (56, 40214), (58, 40211), (59, 40208), (71, 40154), (104, 40043), (120, 39941), (153, 39734),

Gene: Nyala_46 Start: 40066, Stop: 39422, Start Num: 25
Candidate Starts for Nyala_46:
(Start: 25 @40066 has 63 MA's), (Start: 27 @40060 has 4 MA's), (Start: 28 @40057 has 38 MA's), (Start: 45 @39982 has 228 MA's), (56, 39913), (58, 39910), (59, 39907), (104, 39742), (120, 39640), (153, 39433),

Gene: OSmaximus_48 Start: 40540, Stop: 39896, Start Num: 25
Candidate Starts for OSmaximus_48:
(Start: 25 @40540 has 63 MA's), (Start: 27 @40534 has 4 MA's), (Start: 28 @40531 has 38 MA's), (Start: 45 @40456 has 228 MA's), (56, 40387), (58, 40384), (59, 40381), (71, 40327), (120, 40114),

Gene: Oaker_40 Start: 37263, Stop: 37895, Start Num: 34
Candidate Starts for Oaker_40:
(Start: 34 @37263 has 11 MA's), (51, 37350), (Start: 52 @37359 has 2 MA's), (Start: 54 @37371 has 5 MA's), (Start: 60 @37392 has 1 MA's), (69, 37437), (97, 37551), (117, 37629), (118, 37638), (127, 37692), (133, 37731), (138, 37761), (145, 37809), (149, 37857), (153, 37881),

Gene: ObLaDi_152 Start: 79698, Stop: 79189, Start Num: 54
Candidate Starts for ObLaDi_152:
(13, 79890), (40, 79779), (47, 79740), (Start: 54 @79698 has 5 MA's), (64, 79656), (68, 79635), (84, 79551), (99, 79506), (117, 79434), (138, 79317), (148, 79233),

Gene: Obutu_45 Start: 40214, Stop: 39492, Start Num: 21
Candidate Starts for Obutu_45:
(Start: 21 @40214 has 14 MA's), (Start: 28 @40190 has 38 MA's), (43, 40118), (56, 40037), (59, 40031), (76, 39941), (83, 39902), (96, 39866), (106, 39809), (110, 39791), (119, 39731), (127, 39686), (132, 39650), (138, 39617), (142, 39584), (147, 39551), (150, 39512),

Gene: Olak_46 Start: 39985, Stop: 39425, Start Num: 45
Candidate Starts for Olak_46:
(Start: 25 @40069 has 63 MA's), (Start: 27 @40063 has 4 MA's), (Start: 28 @40060 has 38 MA's), (Start: 45 @39985 has 228 MA's), (56, 39916), (58, 39913), (59, 39910), (120, 39643), (153, 39436),

Gene: Oline_46 Start: 39845, Stop: 39285, Start Num: 45
Candidate Starts for Oline_46:
(Start: 25 @39929 has 63 MA's), (Start: 27 @39923 has 4 MA's), (Start: 28 @39920 has 38 MA's), (Start: 45 @39845 has 228 MA's), (56, 39776), (58, 39773), (59, 39770), (71, 39716), (104, 39605), (120, 39503), (153, 39296),

Gene: Olive_47 Start: 40356, Stop: 39712, Start Num: 25
Candidate Starts for Olive_47:
(Start: 25 @40356 has 63 MA's), (Start: 27 @40350 has 4 MA's), (Start: 28 @40347 has 38 MA's), (Start: 45 @40272 has 228 MA's), (56, 40203), (58, 40200), (59, 40197), (71, 40143), (120, 39930), (153, 39723),

Gene: OliverWalter_47 Start: 40378, Stop: 39734, Start Num: 25
Candidate Starts for OliverWalter_47:
(Start: 25 @40378 has 63 MA's), (Start: 27 @40372 has 4 MA's), (Start: 28 @40369 has 38 MA's), (Start: 45 @40294 has 228 MA's), (56, 40225), (58, 40222), (59, 40219), (71, 40165), (120, 39952), (153, 39745),

Gene: Olivio_44 Start: 40083, Stop: 39361, Start Num: 21
Candidate Starts for Olivio_44:
(Start: 21 @40083 has 14 MA's), (Start: 28 @40059 has 38 MA's), (43, 39987), (56, 39906), (59, 39900), (76, 39810), (83, 39771), (96, 39735), (106, 39678), (110, 39660), (119, 39600), (127, 39555), (132, 39519), (138, 39486), (142, 39453), (147, 39420), (150, 39381),

Gene: Omniscient_47 Start: 40291, Stop: 39731, Start Num: 45
Candidate Starts for Omniscient_47:
(Start: 25 @40375 has 63 MA's), (Start: 27 @40369 has 4 MA's), (Start: 28 @40366 has 38 MA's), (Start: 45 @40291 has 228 MA's), (56, 40222), (58, 40219), (59, 40216), (71, 40162), (120, 39949), (153, 39742),

Gene: OneBrain_48 Start: 39984, Stop: 39424, Start Num: 45
Candidate Starts for OneBrain_48:
(Start: 25 @40068 has 63 MA's), (Start: 27 @40062 has 4 MA's), (Start: 28 @40059 has 38 MA's), (Start: 45 @39984 has 228 MA's), (56, 39915), (58, 39912), (59, 39909), (71, 39855), (120, 39642), (153, 39435),

Gene: Oosterbaan_47 Start: 40363, Stop: 39719, Start Num: 25
Candidate Starts for Oosterbaan_47:
(Start: 25 @40363 has 63 MA's), (Start: 27 @40357 has 4 MA's), (Start: 28 @40354 has 38 MA's), (Start: 45 @40279 has 228 MA's), (56, 40210), (58, 40207), (59, 40204), (104, 40039), (120, 39937), (153, 39730),

Gene: OrangeOswald_45 Start: 40207, Stop: 39509, Start Num: 28
Candidate Starts for OrangeOswald_45:
(3, 40453), (4, 40387), (10, 40276), (Start: 14 @40258 has 1 MA's), (16, 40252), (Start: 28 @40207 has 38 MA's), (43, 40135), (56, 40054), (59, 40048), (76, 39958), (83, 39919), (96, 39883), (106, 39826), (110, 39808), (119, 39748), (127, 39703), (132, 39667), (138, 39634), (142, 39601), (147, 39568), (150, 39529),

Gene: OrediggerDelux_104 Start: 52340, Stop: 52972, Start Num: 36
Candidate Starts for OrediggerDelux_104:
(Start: 36 @52340 has 187 MA's), (111, 52679), (122, 52757), (140, 52865), (155, 52967),

Gene: Orfeu_46 Start: 39978, Stop: 39424, Start Num: 45
Candidate Starts for Orfeu_46:
(Start: 25 @40062 has 63 MA's), (Start: 27 @40056 has 4 MA's), (Start: 28 @40053 has 38 MA's), (Start: 45 @39978 has 228 MA's), (56, 39915), (58, 39912), (59, 39909), (71, 39855), (120, 39642), (134, 39576), (153, 39435),

Gene: Orion_48 Start: 40412, Stop: 39852, Start Num: 45
Candidate Starts for Orion_48:
(Start: 25 @40496 has 63 MA's), (Start: 27 @40490 has 4 MA's), (Start: 28 @40487 has 38 MA's), (Start: 45 @40412 has 228 MA's), (56, 40343), (58, 40340), (59, 40337), (71, 40283), (120, 40070),

Gene: Orwigg_46 Start: 39978, Stop: 39418, Start Num: 45

Candidate Starts for Orwigg_46:
(Start: 25 @40062 has 63 MA's), (Start: 27 @40056 has 4 MA's), (Start: 28 @40053 has 38 MA's), (Start: 45 @39978 has 228 MA's), (56, 39909), (58, 39906), (59, 39903), (71, 39849), (104, 39738), (120, 39636), (153, 39429),

Gene: PG1_48 Start: 40425, Stop: 39865, Start Num: 45
Candidate Starts for PG1_48:
(Start: 25 @40509 has 63 MA's), (Start: 27 @40503 has 4 MA's), (Start: 28 @40500 has 38 MA's), (Start: 45 @40425 has 228 MA's), (56, 40356), (58, 40353), (59, 40350), (71, 40296), (120, 40083),

Gene: Pacifista_46 Start: 39981, Stop: 39421, Start Num: 45
Candidate Starts for Pacifista_46:
(Start: 25 @40065 has 63 MA's), (Start: 27 @40059 has 4 MA's), (Start: 28 @40056 has 38 MA's), (Start: 45 @39981 has 228 MA's), (56, 39912), (58, 39909), (59, 39906), (104, 39741), (120, 39639), (153, 39432),

Gene: PallasAthena_46 Start: 39989, Stop: 39429, Start Num: 45
Candidate Starts for PallasAthena_46:
(Start: 25 @40073 has 63 MA's), (Start: 27 @40067 has 4 MA's), (Start: 28 @40064 has 38 MA's), (Start: 45 @39989 has 228 MA's), (56, 39920), (58, 39917), (59, 39914), (71, 39860), (120, 39647), (153, 39440),

Gene: ParkTD_102 Start: 51800, Stop: 52438, Start Num: 36
Candidate Starts for ParkTD_102:
(Start: 36 @51800 has 187 MA's), (111, 52145), (122, 52223), (140, 52331), (155, 52433),

Gene: Patter_101 Start: 50355, Stop: 50987, Start Num: 36
Candidate Starts for Patter_101:
(Start: 12 @50268 has 6 MA's), (Start: 36 @50355 has 187 MA's), (111, 50694), (122, 50772), (140, 50880), (155, 50982),

Gene: Phabba_239 Start: 133129, Stop: 133758, Start Num: 38
Candidate Starts for Phabba_239:
(Start: 38 @133129 has 2 MA's), (48, 133177), (92, 133381), (104, 133426), (107, 133447), (111, 133465), (116, 133486), (117, 133492), (119, 133522), (121, 133540), (151, 133735), (152, 133738), (154, 133750),

Gene: Phamished_48 Start: 40420, Stop: 39860, Start Num: 45
Candidate Starts for Phamished_48:
(Start: 25 @40504 has 63 MA's), (Start: 27 @40498 has 4 MA's), (Start: 28 @40495 has 38 MA's), (Start: 45 @40420 has 228 MA's), (56, 40351), (58, 40348), (59, 40345), (71, 40291), (120, 40078),

Gene: Phareon_47 Start: 39980, Stop: 39426, Start Num: 45
Candidate Starts for Phareon_47:
(Start: 25 @40064 has 63 MA's), (Start: 27 @40058 has 4 MA's), (Start: 28 @40055 has 38 MA's), (Start: 45 @39980 has 228 MA's), (56, 39917), (58, 39914), (59, 39911), (71, 39857), (120, 39644), (134, 39578), (153, 39437),

Gene: PharkleMinkus_104 Start: 52378, Stop: 53010, Start Num: 36
Candidate Starts for PharkleMinkus_104:
(Start: 12 @52291 has 6 MA's), (Start: 36 @52378 has 187 MA's), (111, 52717), (122, 52795), (140, 52903), (155, 53005),

Gene: PhatCats2014_48 Start: 40429, Stop: 39869, Start Num: 45
Candidate Starts for PhatCats2014_48:
(Start: 25 @40513 has 63 MA's), (Start: 27 @40507 has 4 MA's), (Start: 28 @40504 has 38 MA's), (Start: 45 @40429 has 228 MA's), (56, 40360), (58, 40357), (59, 40354), (71, 40300), (120, 40087),

Gene: PhatLouie_47 Start: 40283, Stop: 39723, Start Num: 45
Candidate Starts for PhatLouie_47:
(Start: 25 @40367 has 63 MA's), (Start: 27 @40361 has 4 MA's), (Start: 28 @40358 has 38 MA's), (Start: 45 @40283 has 228 MA's), (56, 40214), (58, 40211), (59, 40208), (104, 40043), (120, 39941), (153, 39734),

Gene: Phayeta_46 Start: 40096, Stop: 39374, Start Num: 21
Candidate Starts for Phayeta_46:
(Start: 21 @40096 has 14 MA's), (Start: 28 @40072 has 38 MA's), (43, 40000), (56, 39919), (59, 39913), (76, 39823), (83, 39784), (96, 39748), (106, 39691), (110, 39673), (119, 39613), (127, 39568), (132, 39532), (138, 39499), (142, 39466), (147, 39433), (150, 39394),

Gene: PhenghisKhan_46 Start: 39973, Stop: 39329, Start Num: 25
Candidate Starts for PhenghisKhan_46:
(Start: 25 @39973 has 63 MA's), (Start: 27 @39967 has 4 MA's), (Start: 28 @39964 has 38 MA's), (Start: 45 @39889 has 228 MA's), (56, 39820), (58, 39817), (59, 39814), (71, 39760), (120, 39547), (153, 39340),

Gene: Pherdinand_48 Start: 40420, Stop: 39860, Start Num: 45
Candidate Starts for Pherdinand_48:
(Start: 25 @40504 has 63 MA's), (Start: 27 @40498 has 4 MA's), (Start: 28 @40495 has 38 MA's), (Start: 45 @40420 has 228 MA's), (56, 40351), (58, 40348), (59, 40345), (71, 40291), (120, 40078),

Gene: Phergie_46 Start: 39964, Stop: 39320, Start Num: 25
Candidate Starts for Phergie_46:
(Start: 25 @39964 has 63 MA's), (Start: 27 @39958 has 4 MA's), (Start: 28 @39955 has 38 MA's), (Start: 45 @39880 has 228 MA's), (56, 39811), (58, 39808), (59, 39805), (71, 39751), (120, 39538), (153, 39331),

Gene: Philly_44 Start: 40058, Stop: 39360, Start Num: 28
Candidate Starts for Philly_44:
(3, 40304), (4, 40238), (10, 40127), (Start: 14 @40109 has 1 MA's), (16, 40103), (Start: 28 @40058 has 38 MA's), (43, 39986), (56, 39905), (59, 39899), (76, 39809), (83, 39770), (96, 39734), (106, 39677), (110, 39659), (119, 39599), (127, 39554), (132, 39518), (138, 39485), (142, 39452), (147, 39419), (150, 39380),

Gene: Phlegm_103 Start: 50338, Stop: 50970, Start Num: 36
Candidate Starts for Phlegm_103:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (111, 50677), (122, 50755), (140, 50863), (155, 50965),

Gene: Phleuron_46 Start: 39970, Stop: 39326, Start Num: 25
Candidate Starts for Phleuron_46:
(Start: 25 @39970 has 63 MA's), (Start: 27 @39964 has 4 MA's), (Start: 28 @39961 has 38 MA's), (Start: 45 @39886 has 228 MA's), (58, 39814), (59, 39811), (71, 39757), (104, 39646), (120, 39544), (153, 39337),

Gene: Phlyer_45 Start: 40946, Stop: 40248, Start Num: 28

Candidate Starts for Phlyer_45:
(3, 41192), (4, 41126), (10, 41015), (Start: 14 @40997 has 1 MA's), (16, 40991), (Start: 28 @40946 has 38 MA's), (43, 40874), (56, 40793), (59, 40787), (76, 40697), (83, 40658), (96, 40622), (106, 40565), (110, 40547), (119, 40487), (127, 40442), (132, 40406), (138, 40373), (142, 40340), (147, 40307), (150, 40268),

Gene: Phox_98 Start: 52086, Stop: 52718, Start Num: 36
Candidate Starts for Phox_98:
(Start: 36 @52086 has 187 MA's), (111, 52425), (122, 52503), (140, 52611), (155, 52713),

Gene: PhrankReynolds_45 Start: 39970, Stop: 39326, Start Num: 25
Candidate Starts for PhrankReynolds_45:
(Start: 25 @39970 has 63 MA's), (Start: 27 @39964 has 4 MA's), (Start: 28 @39961 has 38 MA's), (Start: 45 @39886 has 228 MA's), (56, 39817), (58, 39814), (59, 39811), (71, 39757), (120, 39544), (153, 39337),

Gene: Phreeze_40 Start: 37066, Stop: 37698, Start Num: 34
Candidate Starts for Phreeze_40:
(Start: 34 @37066 has 11 MA's), (44, 37120), (51, 37153), (Start: 52 @37162 has 2 MA's), (Start: 54 @37174 has 5 MA's), (Start: 60 @37195 has 1 MA's), (69, 37240), (97, 37354), (117, 37432), (118, 37441), (127, 37495), (133, 37534), (138, 37564), (149, 37660), (153, 37684),

Gene: PhrodoBaggins_47 Start: 40408, Stop: 39848, Start Num: 45
Candidate Starts for PhrodoBaggins_47:
(Start: 25 @40492 has 63 MA's), (Start: 27 @40486 has 4 MA's), (Start: 28 @40483 has 38 MA's), (Start: 45 @40408 has 228 MA's), (56, 40339), (58, 40336), (59, 40333), (71, 40279), (120, 40066),

Gene: Phunky_47 Start: 40277, Stop: 39723, Start Num: 45
Candidate Starts for Phunky_47:
(Start: 25 @40361 has 63 MA's), (Start: 27 @40355 has 4 MA's), (Start: 28 @40352 has 38 MA's), (Start: 45 @40277 has 228 MA's), (56, 40214), (58, 40211), (59, 40208), (71, 40154), (120, 39941), (153, 39734),

Gene: Phusco_101 Start: 51103, Stop: 51735, Start Num: 36
Candidate Starts for Phusco_101:
(Start: 12 @51016 has 6 MA's), (Start: 36 @51103 has 187 MA's), (111, 51442), (122, 51520), (140, 51628), (155, 51730),

Gene: Pier_105 Start: 52448, Stop: 53080, Start Num: 36
Candidate Starts for Pier_105:
(Start: 36 @52448 has 187 MA's), (111, 52787), (122, 52865), (140, 52973), (155, 53075),

Gene: Piglet_0046 Start: 40390, Stop: 39830, Start Num: 45
Candidate Starts for Piglet_0046:
(Start: 25 @40474 has 63 MA's), (Start: 27 @40468 has 4 MA's), (Start: 28 @40465 has 38 MA's), (Start: 45 @40390 has 228 MA's), (56, 40321), (58, 40318), (59, 40315), (71, 40261), (104, 40150), (120, 40048), (153, 39841),

Gene: PinheadLarry_47 Start: 39990, Stop: 39436, Start Num: 45
Candidate Starts for PinheadLarry_47:
(Start: 25 @40074 has 63 MA's), (Start: 27 @40068 has 4 MA's), (Start: 28 @40065 has 38 MA's), (Start: 45 @39990 has 228 MA's), (56, 39927), (58, 39924), (59, 39921), (71, 39867), (120, 39654), (134, 39588), (153, 39447),

Gene: Pinkcreek_92 Start: 48897, Stop: 49529, Start Num: 36
Candidate Starts for Pinkcreek_92:
(Start: 36 @48897 has 187 MA's), (111, 49236), (122, 49314), (140, 49422), (155, 49524),

Gene: Pinkman_46 Start: 39839, Stop: 39279, Start Num: 45
Candidate Starts for Pinkman_46:
(Start: 25 @39923 has 63 MA's), (Start: 27 @39917 has 4 MA's), (Start: 28 @39914 has 38 MA's), (Start: 45 @39839 has 228 MA's), (56, 39770), (58, 39767), (59, 39764), (104, 39599), (120, 39497), (153, 39290),

Gene: Pio_105 Start: 53696, Stop: 54328, Start Num: 36
Candidate Starts for Pio_105:
(Start: 36 @53696 has 187 MA's), (111, 54035), (122, 54113), (140, 54221), (155, 54323),

Gene: Pipefish_47 Start: 41599, Stop: 40901, Start Num: 28
Candidate Starts for Pipefish_47:
(Start: 21 @41623 has 14 MA's), (Start: 28 @41599 has 38 MA's), (43, 41527), (56, 41446), (59, 41440), (76, 41350), (83, 41311), (96, 41275), (106, 41218), (110, 41200), (119, 41140), (127, 41095), (132, 41059), (136, 41035), (138, 41026), (142, 40993), (147, 40960), (150, 40921),

Gene: Pipsqueak_47 Start: 40368, Stop: 39724, Start Num: 25
Candidate Starts for Pipsqueak_47:
(Start: 25 @40368 has 63 MA's), (Start: 27 @40362 has 4 MA's), (Start: 28 @40359 has 38 MA's), (Start: 45 @40284 has 228 MA's), (56, 40215), (58, 40212), (59, 40209), (71, 40155), (120, 39942), (153, 39735),

Gene: Pivoine_100 Start: 50338, Stop: 50970, Start Num: 36
Candidate Starts for Pivoine_100:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (111, 50677), (122, 50755), (140, 50863), (155, 50965),

Gene: Placalicious_46 Start: 39977, Stop: 39417, Start Num: 45
Candidate Starts for Placalicious_46:
(Start: 25 @40061 has 63 MA's), (Start: 27 @40055 has 4 MA's), (Start: 28 @40052 has 38 MA's), (Start: 45 @39977 has 228 MA's), (56, 39908), (58, 39905), (59, 39902), (104, 39737), (120, 39635), (153, 39428),

Gene: Plata_46 Start: 39995, Stop: 39435, Start Num: 45
Candidate Starts for Plata_46:
(Start: 25 @40079 has 63 MA's), (Start: 27 @40073 has 4 MA's), (Start: 28 @40070 has 38 MA's), (Start: 45 @39995 has 228 MA's), (56, 39926), (58, 39923), (59, 39920), (71, 39866), (120, 39653), (153, 39446),

Gene: Pleione_104 Start: 51973, Stop: 52605, Start Num: 36
Candidate Starts for Pleione_104:
(Start: 36 @51973 has 187 MA's), (111, 52312), (122, 52390), (140, 52498), (155, 52600),

Gene: Plmatters_47 Start: 40280, Stop: 39720, Start Num: 45
Candidate Starts for Plmatters_47:
(Start: 25 @40364 has 63 MA's), (Start: 27 @40358 has 4 MA's), (Start: 28 @40355 has 38 MA's), (Start: 45 @40280 has 228 MA's), (56, 40211), (58, 40208), (59, 40205), (71, 40151), (104, 40040), (120, 39938), (153, 39731),

Gene: Podrick_47 Start: 40271, Stop: 39711, Start Num: 45
Candidate Starts for Podrick_47:
(Start: 25 @40355 has 63 MA's), (Start: 27 @40349 has 4 MA's), (Start: 28 @40346 has 38 MA's), (Start: 45 @40271 has 228 MA's), (56, 40202), (58, 40199), (59, 40196), (71, 40142), (104, 40031), (120, 39929), (153, 39722),

Gene: Pops_47 Start: 40295, Stop: 39735, Start Num: 45
Candidate Starts for Pops_47:
(Start: 25 @40379 has 63 MA's), (Start: 27 @40373 has 4 MA's), (Start: 28 @40370 has 38 MA's), (Start: 45 @40295 has 228 MA's), (56, 40226), (58, 40223), (59, 40220), (71, 40166), (104, 40055), (120, 39953), (153, 39746),

Gene: Potter_46 Start: 39995, Stop: 39435, Start Num: 45
Candidate Starts for Potter_46:
(Start: 25 @40079 has 63 MA's), (Start: 27 @40073 has 4 MA's), (Start: 28 @40070 has 38 MA's), (Start: 45 @39995 has 228 MA's), (56, 39926), (58, 39923), (59, 39920), (104, 39755), (120, 39653), (153, 39446),

Gene: Prickles_47 Start: 40271, Stop: 39711, Start Num: 45
Candidate Starts for Prickles_47:
(Start: 25 @40355 has 63 MA's), (Start: 27 @40349 has 4 MA's), (Start: 28 @40346 has 38 MA's), (Start: 45 @40271 has 228 MA's), (56, 40202), (58, 40199), (59, 40196), (71, 40142), (120, 39929), (153, 39722),

Gene: Primadonna_95 Start: 50702, Stop: 51334, Start Num: 36
Candidate Starts for Primadonna_95:
(Start: 36 @50702 has 187 MA's), (111, 51041), (122, 51119), (140, 51227), (155, 51329),

Gene: ProfessorX_47 Start: 40272, Stop: 39712, Start Num: 45
Candidate Starts for ProfessorX_47:
(Start: 25 @40356 has 63 MA's), (Start: 27 @40350 has 4 MA's), (Start: 28 @40347 has 38 MA's), (Start: 45 @40272 has 228 MA's), (56, 40203), (58, 40200), (59, 40197), (71, 40143), (120, 39930), (153, 39723),

Gene: Puhltonio_47 Start: 40365, Stop: 39727, Start Num: 25
Candidate Starts for Puhltonio_47:
(Start: 25 @40365 has 63 MA's), (Start: 27 @40359 has 4 MA's), (Start: 28 @40356 has 38 MA's), (Start: 45 @40281 has 228 MA's), (56, 40218), (58, 40215), (59, 40212), (71, 40158), (120, 39945), (134, 39879), (153, 39738),

Gene: Puhon_105 Start: 52331, Stop: 52963, Start Num: 36
Candidate Starts for Puhon_105:
(Start: 12 @52244 has 6 MA's), (Start: 36 @52331 has 187 MA's), (111, 52670), (122, 52748), (140, 52856), (155, 52958),

Gene: Puissant_41 Start: 37458, Stop: 38090, Start Num: 34
Candidate Starts for Puissant_41:
(Start: 34 @37458 has 11 MA's), (51, 37545), (Start: 52 @37554 has 2 MA's), (Start: 60 @37587 has 1 MA's), (69, 37632), (97, 37746), (117, 37824), (118, 37833), (127, 37887), (133, 37926), (138, 37956), (145, 38004), (149, 38052), (153, 38076),

Gene: Puppers_48 Start: 36822, Stop: 36238, Start Num: 37

Candidate Starts for Puppers_48:
(33, 36834), (Start: 37 @36822 has 3 MA's), (39, 36813), (Start: 60 @36717 has 1 MA's), (81, 36612), (86, 36591), (98, 36561), (150, 36258),

Gene: Pupusa_107 Start: 53185, Stop: 53817, Start Num: 36
Candidate Starts for Pupusa_107:
(Start: 12 @53098 has 6 MA's), (Start: 36 @53185 has 187 MA's), (111, 53524), (122, 53602), (140, 53710), (155, 53812),

Gene: PurduePete_101 Start: 52225, Stop: 52863, Start Num: 36
Candidate Starts for PurduePete_101:
(Start: 36 @52225 has 187 MA's), (111, 52570), (122, 52648), (140, 52756), (155, 52858),

Gene: QBert_95 Start: 50881, Stop: 51513, Start Num: 36
Candidate Starts for QBert_95:
(Start: 36 @50881 has 187 MA's), (111, 51220), (122, 51298), (140, 51406), (155, 51508),

Gene: Quasimodo_102 Start: 51762, Stop: 52394, Start Num: 36
Candidate Starts for Quasimodo_102:
(Start: 36 @51762 has 187 MA's), (111, 52101), (122, 52179), (140, 52287), (155, 52389),

Gene: QueenBeane_47 Start: 40271, Stop: 39717, Start Num: 45
Candidate Starts for QueenBeane_47:
(Start: 25 @40355 has 63 MA's), (Start: 27 @40349 has 4 MA's), (Start: 28 @40346 has 38 MA's), (Start: 45 @40271 has 228 MA's), (56, 40208), (58, 40205), (59, 40202), (71, 40148), (120, 39935), (134, 39869), (153, 39728),

Gene: Quisquiliae_47 Start: 40308, Stop: 39748, Start Num: 45
Candidate Starts for Quisquiliae_47:
(Start: 25 @40392 has 63 MA's), (Start: 27 @40386 has 4 MA's), (Start: 28 @40383 has 38 MA's), (Start: 45 @40308 has 228 MA's), (56, 40239), (58, 40236), (59, 40233), (71, 40179), (104, 40068), (120, 39966), (153, 39759),

Gene: Rabinovish_99 Start: 51861, Stop: 52493, Start Num: 36
Candidate Starts for Rabinovish_99:
(Start: 36 @51861 has 187 MA's), (111, 52200), (122, 52278), (140, 52386), (155, 52488),

Gene: RagingRooster_45 Start: 40208, Stop: 39510, Start Num: 28
Candidate Starts for RagingRooster_45:
(3, 40454), (4, 40388), (10, 40277), (Start: 14 @40259 has 1 MA's), (16, 40253), (Start: 28 @40208 has 38 MA's), (43, 40136), (56, 40055), (59, 40049), (76, 39959), (83, 39920), (96, 39884), (106, 39827), (110, 39809), (119, 39749), (127, 39704), (132, 39668), (138, 39635), (142, 39602), (147, 39569), (150, 39530),

Gene: Rahel_100 Start: 50695, Stop: 51327, Start Num: 36
Candidate Starts for Rahel_100:
(Start: 12 @50608 has 6 MA's), (Start: 36 @50695 has 187 MA's), (111, 51034), (122, 51112), (140, 51220), (155, 51322),

Gene: RedMaple_47 Start: 40422, Stop: 39862, Start Num: 45
Candidate Starts for RedMaple_47:
(Start: 25 @40506 has 63 MA's), (Start: 27 @40500 has 4 MA's), (Start: 28 @40497 has 38 MA's), (Start: 45 @40422 has 228 MA's), (56, 40353), (58, 40350), (59, 40347), (71, 40293), (120, 40080),

Gene: RedRaider89_48 Start: 40504, Stop: 39944, Start Num: 45
Candidate Starts for RedRaider89_48:
(Start: 37 @40546 has 3 MA's), (Start: 45 @40504 has 228 MA's), (56, 40435), (58, 40432), (59, 40429), (71, 40375), (120, 40162), (134, 40096), (153, 39955),

Gene: Ricotta_46 Start: 39994, Stop: 39440, Start Num: 45
Candidate Starts for Ricotta_46:
(Start: 25 @40078 has 63 MA's), (Start: 27 @40072 has 4 MA's), (Start: 28 @40069 has 38 MA's), (Start: 45 @39994 has 228 MA's), (56, 39931), (58, 39928), (59, 39925), (71, 39871), (120, 39658), (134, 39592), (153, 39451),

Gene: Riggan_47 Start: 40267, Stop: 39707, Start Num: 45
Candidate Starts for Riggan_47:
(Start: 25 @40351 has 63 MA's), (Start: 27 @40345 has 4 MA's), (Start: 28 @40342 has 38 MA's), (Start: 45 @40267 has 228 MA's), (56, 40198), (58, 40195), (59, 40192), (71, 40138), (120, 39925), (153, 39718),

Gene: Rimu_47 Start: 40007, Stop: 39453, Start Num: 45
Candidate Starts for Rimu_47:
(Start: 25 @40091 has 63 MA's), (Start: 27 @40085 has 4 MA's), (Start: 28 @40082 has 38 MA's), (Start: 45 @40007 has 228 MA's), (56, 39944), (58, 39941), (59, 39938), (71, 39884), (120, 39671), (134, 39605), (153, 39464),

Gene: Rita1961_45 Start: 40215, Stop: 39493, Start Num: 21
Candidate Starts for Rita1961_45:
(Start: 21 @40215 has 14 MA's), (Start: 28 @40191 has 38 MA's), (43, 40119), (56, 40038), (59, 40032), (76, 39942), (83, 39903), (96, 39867), (106, 39810), (110, 39792), (119, 39732), (127, 39687), (132, 39651), (138, 39618), (142, 39585), (147, 39552), (150, 39513),

Gene: Riverton_47 Start: 40369, Stop: 39725, Start Num: 25
Candidate Starts for Riverton_47:
(Start: 25 @40369 has 63 MA's), (Start: 27 @40363 has 4 MA's), (Start: 28 @40360 has 38 MA's), (Start: 45 @40285 has 228 MA's), (56, 40216), (58, 40213), (59, 40210), (71, 40156), (104, 40045), (120, 39943), (153, 39736),

Gene: Rizal_97 Start: 49756, Stop: 50475, Start Num: 12
Candidate Starts for Rizal_97:
(Start: 12 @49756 has 6 MA's), (Start: 36 @49843 has 187 MA's), (111, 50182), (122, 50260), (140, 50368), (155, 50470),

Gene: RoMag_96 Start: 51018, Stop: 51650, Start Num: 36
Candidate Starts for RoMag_96:
(23, 50976), (24, 50979), (Start: 36 @51018 has 187 MA's), (111, 51357), (122, 51435), (140, 51543), (155, 51645),

Gene: Robyn_46 Start: 39851, Stop: 39291, Start Num: 45
Candidate Starts for Robyn_46:
(Start: 25 @39935 has 63 MA's), (Start: 27 @39929 has 4 MA's), (Start: 28 @39926 has 38 MA's), (Start: 45 @39851 has 228 MA's), (56, 39782), (58, 39779), (59, 39776), (104, 39611), (120, 39509), (153, 39302),

Gene: Rocha_100 Start: 51272, Stop: 51904, Start Num: 36

Candidate Starts for Rocha_100:
(Start: 36 @51272 has 187 MA's), (111, 51611), (122, 51689), (140, 51797), (155, 51899),

Gene: Roliet_47 Start: 40279, Stop: 39719, Start Num: 45
Candidate Starts for Roliet_47:
(Start: 37 @40321 has 3 MA's), (Start: 45 @40279 has 228 MA's), (56, 40210), (58, 40207), (59, 40204), (71, 40150), (120, 39937), (153, 39730),

Gene: RomaT_45 Start: 40981, Stop: 40283, Start Num: 28
Candidate Starts for RomaT_45:
(3, 41227), (4, 41161), (10, 41050), (Start: 14 @41032 has 1 MA's), (16, 41026), (Start: 28 @40981 has 38 MA's), (43, 40909), (56, 40828), (59, 40822), (76, 40732), (83, 40693), (96, 40657), (106, 40600), (110, 40582), (119, 40522), (127, 40477), (132, 40441), (138, 40408), (142, 40375), (147, 40342), (150, 40303),

Gene: Ronan_95 Start: 48969, Stop: 49601, Start Num: 36
Candidate Starts for Ronan_95:
(Start: 36 @48969 has 187 MA's), (111, 49308), (122, 49386), (140, 49494), (155, 49596),

Gene: Roots515_100 Start: 51997, Stop: 52635, Start Num: 36
Candidate Starts for Roots515_100:
(Start: 36 @51997 has 187 MA's), (111, 52342), (122, 52420), (140, 52528), (155, 52630),

Gene: Roscoe_48 Start: 40517, Stop: 39957, Start Num: 45
Candidate Starts for Roscoe_48:
(Start: 25 @40601 has 63 MA's), (Start: 27 @40595 has 4 MA's), (Start: 28 @40592 has 38 MA's), (Start: 45 @40517 has 228 MA's), (56, 40448), (58, 40445), (59, 40442), (71, 40388), (120, 40175), (153, 39968),

Gene: Roy17_47 Start: 40055, Stop: 39417, Start Num: 25
Candidate Starts for Roy17_47:
(Start: 25 @40055 has 63 MA's), (Start: 27 @40049 has 4 MA's), (Start: 28 @40046 has 38 MA's), (Start: 45 @39971 has 228 MA's), (56, 39908), (58, 39905), (59, 39902), (71, 39848), (120, 39635), (134, 39569), (153, 39428),

Gene: SDcharge11_47 Start: 40299, Stop: 39697, Start Num: 37
Candidate Starts for SDcharge11_47:
(Start: 37 @40299 has 3 MA's), (Start: 45 @40257 has 228 MA's), (56, 40188), (58, 40185), (59, 40182), (71, 40128), (120, 39915), (153, 39708),

Gene: SVoro_99 Start: 52175, Stop: 52813, Start Num: 36
Candidate Starts for SVoro_99:
(Start: 36 @52175 has 187 MA's), (111, 52520), (122, 52598), (140, 52706), (155, 52808),

Gene: Saguaro_48 Start: 41742, Stop: 41140, Start Num: 41
Candidate Starts for Saguaro_48:
(29, 41793), (30, 41790), (Start: 41 @41742 has 1 MA's), (49, 41700), (58, 41655), (59, 41652), (62, 41640), (103, 41463), (104, 41460), (117, 41394), (120, 41358), (129, 41319),

Gene: Salacia_105 Start: 52144, Stop: 52776, Start Num: 36
Candidate Starts for Salacia_105:
(Start: 36 @52144 has 187 MA's), (111, 52483), (122, 52561), (140, 52669), (155, 52771),

Gene: Salazzle_47 Start: 39850, Stop: 39290, Start Num: 45
Candidate Starts for Salazzle_47:
(Start: 25 @39934 has 63 MA's), (Start: 27 @39928 has 4 MA's), (Start: 28 @39925 has 38 MA's), (Start: 45 @39850 has 228 MA's), (56, 39781), (58, 39778), (59, 39775), (71, 39721), (120, 39508), (153, 39301),

Gene: SallyH_48 Start: 40425, Stop: 39865, Start Num: 45
Candidate Starts for SallyH_48:
(Start: 25 @40509 has 63 MA's), (Start: 27 @40503 has 4 MA's), (Start: 28 @40500 has 38 MA's), (Start: 45 @40425 has 228 MA's), (56, 40356), (58, 40353), (59, 40350), (71, 40296), (120, 40083),

Gene: Samaymay_47 Start: 40271, Stop: 39717, Start Num: 45
Candidate Starts for Samaymay_47:
(Start: 25 @40355 has 63 MA's), (Start: 27 @40349 has 4 MA's), (Start: 28 @40346 has 38 MA's), (Start: 45 @40271 has 228 MA's), (56, 40208), (58, 40205), (59, 40202), (71, 40148), (120, 39935), (134, 39869), (153, 39728),

Gene: SassyCat97_46 Start: 39983, Stop: 39423, Start Num: 45
Candidate Starts for SassyCat97_46:
(Start: 25 @40067 has 63 MA's), (Start: 27 @40061 has 4 MA's), (Start: 28 @40058 has 38 MA's), (Start: 45 @39983 has 228 MA's), (56, 39914), (58, 39911), (59, 39908), (104, 39743), (120, 39641), (153, 39434),

Gene: Sauce_102 Start: 51006, Stop: 51638, Start Num: 36
Candidate Starts for Sauce_102:
(Start: 36 @51006 has 187 MA's), (111, 51345), (122, 51423), (140, 51531), (155, 51633),

Gene: Schadenfreude_46 Start: 39825, Stop: 39265, Start Num: 45
Candidate Starts for Schadenfreude_46:
(Start: 25 @39909 has 63 MA's), (Start: 27 @39903 has 4 MA's), (Start: 28 @39900 has 38 MA's), (Start: 45 @39825 has 228 MA's), (56, 39756), (58, 39753), (59, 39750), (104, 39585), (120, 39483), (153, 39276),

Gene: Schueller_46 Start: 40080, Stop: 39436, Start Num: 25
Candidate Starts for Schueller_46:
(Start: 25 @40080 has 63 MA's), (Start: 27 @40074 has 4 MA's), (Start: 28 @40071 has 38 MA's), (Start: 45 @39996 has 228 MA's), (56, 39927), (58, 39924), (59, 39921), (71, 39867), (120, 39654), (153, 39447),

Gene: ScoobyDoobyDoo_226 Start: 130612, Stop: 131253, Start Num: 36
Candidate Starts for ScoobyDoobyDoo_226:
(Start: 36 @130612 has 187 MA's), (61, 130723), (79, 130816), (95, 130882), (100, 130903), (107, 130942), (111, 130960), (112, 130966), (122, 131038), (140, 131146), (144, 131164),

Gene: Scoot17C_48 Start: 40414, Stop: 39854, Start Num: 45
Candidate Starts for Scoot17C_48:
(Start: 25 @40498 has 63 MA's), (Start: 27 @40492 has 4 MA's), (Start: 28 @40489 has 38 MA's), (Start: 45 @40414 has 228 MA's), (56, 40345), (58, 40342), (59, 40339), (71, 40285), (120, 40072),

Gene: ScottMcG_98 Start: 50768, Stop: 51400, Start Num: 36
Candidate Starts for ScottMcG_98:
(Start: 36 @50768 has 187 MA's), (111, 51107), (122, 51185), (140, 51293), (155, 51395),

Gene: Scrick_47 Start: 40007, Stop: 39447, Start Num: 45
Candidate Starts for Scrick_47:
(Start: 25 @40091 has 63 MA's), (Start: 27 @40085 has 4 MA's), (Start: 28 @40082 has 38 MA's), (Start: 45 @40007 has 228 MA's), (56, 39938), (58, 39935), (59, 39932), (71, 39878), (104, 39767), (120, 39665), (153, 39458),

Gene: Sebata_103 Start: 52475, Stop: 53107, Start Num: 36
Candidate Starts for Sebata_103:
(Start: 36 @52475 has 187 MA's), (111, 52814), (122, 52892), (140, 53000), (155, 53102),

Gene: Selr12_47 Start: 40094, Stop: 39450, Start Num: 25
Candidate Starts for Selr12_47:
(Start: 25 @40094 has 63 MA's), (Start: 27 @40088 has 4 MA's), (Start: 28 @40085 has 38 MA's), (Start: 45 @40010 has 228 MA's), (56, 39941), (58, 39938), (59, 39935), (104, 39770), (120, 39668), (153, 39461),

Gene: Septica_46 Start: 40371, Stop: 39727, Start Num: 25
Candidate Starts for Septica_46:
(Start: 25 @40371 has 63 MA's), (Start: 27 @40365 has 4 MA's), (Start: 28 @40362 has 38 MA's), (Start: 45 @40287 has 228 MA's), (56, 40218), (58, 40215), (59, 40212), (71, 40158), (104, 40047), (120, 39945), (153, 39738),

Gene: Serendipity_47 Start: 40295, Stop: 39741, Start Num: 45
Candidate Starts for Serendipity_47:
(Start: 25 @40379 has 63 MA's), (Start: 27 @40373 has 4 MA's), (Start: 28 @40370 has 38 MA's), (Start: 45 @40295 has 228 MA's), (56, 40232), (58, 40229), (59, 40226), (71, 40172), (120, 39959), (134, 39893), (153, 39752),

Gene: Serpentine_0047 Start: 40366, Stop: 39722, Start Num: 25
Candidate Starts for Serpentine_0047:
(Start: 25 @40366 has 63 MA's), (Start: 27 @40360 has 4 MA's), (Start: 28 @40357 has 38 MA's), (Start: 45 @40282 has 228 MA's), (56, 40213), (58, 40210), (59, 40207), (71, 40153), (104, 40042), (120, 39940), (153, 39733),

Gene: ShadowBud_47 Start: 40305, Stop: 39745, Start Num: 45
Candidate Starts for ShadowBud_47:
(Start: 25 @40389 has 63 MA's), (Start: 27 @40383 has 4 MA's), (Start: 28 @40380 has 38 MA's), (Start: 45 @40305 has 228 MA's), (56, 40236), (58, 40233), (59, 40230), (71, 40176), (104, 40065), (120, 39963), (153, 39756),

Gene: Shaqnato_94 Start: 49881, Stop: 50513, Start Num: 36
Candidate Starts for Shaqnato_94:
(Start: 36 @49881 has 187 MA's), (111, 50220), (122, 50298), (140, 50406), (155, 50508),

Gene: Sheila_47 Start: 40319, Stop: 39759, Start Num: 45
Candidate Starts for Sheila_47:
(Start: 37 @40361 has 3 MA's), (Start: 45 @40319 has 228 MA's), (56, 40250), (58, 40247), (59, 40244), (71, 40190), (120, 39977), (153, 39770),

Gene: Shelob_103 Start: 52591, Stop: 53223, Start Num: 36
Candidate Starts for Shelob_103:
(Start: 36 @52591 has 187 MA's), (111, 52930), (122, 53008), (140, 53116), (155, 53218),

Gene: Shenandoah_45 Start: 40180, Stop: 39482, Start Num: 28
Candidate Starts for Shenandoah_45:
(3, 40426), (4, 40360), (10, 40249), (Start: 14 @40231 has 1 MA's), (16, 40225), (Start: 28 @40180 has 38 MA's), (43, 40108), (56, 40027), (59, 40021), (76, 39931), (83, 39892), (96, 39856), (106, 39799), (110, 39781), (119, 39721), (127, 39676), (132, 39640), (138, 39607), (142, 39574), (147, 39541), (150, 39502),

Gene: ShiVal_47 Start: 40281, Stop: 39721, Start Num: 45
Candidate Starts for ShiVal_47:
(Start: 25 @40365 has 63 MA's), (Start: 27 @40359 has 4 MA's), (Start: 28 @40356 has 38 MA's), (Start: 45 @40281 has 228 MA's), (56, 40212), (58, 40209), (59, 40206), (71, 40152), (120, 39939), (153, 39732),

Gene: ShiaLabeouf_100 Start: 51130, Stop: 51762, Start Num: 36
Candidate Starts for ShiaLabeouf_100:
(Start: 12 @51043 has 6 MA's), (Start: 36 @51130 has 187 MA's), (111, 51469), (122, 51547), (140, 51655), (155, 51757),

Gene: Shifa_90 Start: 49856, Stop: 50488, Start Num: 36
Candidate Starts for Shifa_90:
(Start: 36 @49856 has 187 MA's), (111, 50195), (122, 50273), (140, 50381), (155, 50483),

Gene: Shnickers_101 Start: 51094, Stop: 51726, Start Num: 36
Candidate Starts for Shnickers_101:
(Start: 12 @51007 has 6 MA's), (Start: 36 @51094 has 187 MA's), (111, 51433), (122, 51511), (140, 51619), (155, 51721),

Gene: Shrimp_101 Start: 51808, Stop: 52446, Start Num: 36
Candidate Starts for Shrimp_101:
(Start: 36 @51808 has 187 MA's), (111, 52153), (122, 52231), (140, 52339), (155, 52441),

Gene: Sigman_48 Start: 40489, Stop: 39845, Start Num: 25
Candidate Starts for Sigman_48:
(Start: 25 @40489 has 63 MA's), (Start: 27 @40483 has 4 MA's), (Start: 28 @40480 has 38 MA's), (Start: 45 @40405 has 228 MA's), (56, 40336), (58, 40333), (59, 40330), (71, 40276), (120, 40063),

Gene: SilverBell_47 Start: 40384, Stop: 39740, Start Num: 25
Candidate Starts for SilverBell_47:
(Start: 25 @40384 has 63 MA's), (Start: 27 @40378 has 4 MA's), (Start: 28 @40375 has 38 MA's), (Start: 45 @40300 has 228 MA's), (56, 40231), (58, 40228), (59, 40225), (71, 40171), (104, 40060), (120, 39958), (153, 39751),

Gene: SilverDipper_102 Start: 50338, Stop: 50970, Start Num: 36
Candidate Starts for SilverDipper_102:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (111, 50677), (122, 50755), (140, 50863), (155, 50965),

Gene: Simielle_46 Start: 39964, Stop: 39410, Start Num: 45
Candidate Starts for Simielle_46:
(Start: 25 @40048 has 63 MA's), (Start: 27 @40042 has 4 MA's), (Start: 28 @40039 has 38 MA's), (Start: 45 @39964 has 228 MA's), (56, 39901), (58, 39898), (59, 39895), (71, 39841), (120, 39628), (134, 39562), (153, 39421),

Gene: SirBeauregard_47 Start: 39977, Stop: 39417, Start Num: 45
Candidate Starts for SirBeauregard_47:
(Start: 25 @40061 has 63 MA's), (Start: 27 @40055 has 4 MA's), (Start: 28 @40052 has 38 MA's), (Start: 45 @39977 has 228 MA's), (56, 39908), (58, 39905), (59, 39902), (71, 39848), (120, 39635), (153, 39428),

Gene: SiwenD96_103 Start: 52499, Stop: 53137, Start Num: 36
Candidate Starts for SiwenD96_103:
(26, 52463), (Start: 36 @52499 has 187 MA's), (111, 52844), (122, 52922), (140, 53030), (155, 53132),

Gene: Skippy_47 Start: 40265, Stop: 39705, Start Num: 45
Candidate Starts for Skippy_47:
(Start: 25 @40349 has 63 MA's), (Start: 27 @40343 has 4 MA's), (Start: 28 @40340 has 38 MA's), (Start: 45 @40265 has 228 MA's), (56, 40196), (58, 40193), (59, 40190), (71, 40136), (120, 39923), (153, 39716),

Gene: Slatt_47 Start: 40291, Stop: 39731, Start Num: 45
Candidate Starts for Slatt_47:
(Start: 25 @40375 has 63 MA's), (Start: 27 @40369 has 4 MA's), (Start: 28 @40366 has 38 MA's), (Start: 45 @40291 has 228 MA's), (56, 40222), (58, 40219), (59, 40216), (71, 40162), (104, 40051), (120, 39949), (153, 39742),

Gene: SlippinJimmy_45 Start: 40997, Stop: 40275, Start Num: 21
Candidate Starts for SlippinJimmy_45:
(Start: 21 @40997 has 14 MA's), (Start: 28 @40973 has 38 MA's), (43, 40901), (56, 40820), (59, 40814), (76, 40724), (83, 40685), (96, 40649), (106, 40592), (110, 40574), (119, 40514), (127, 40469), (132, 40433), (138, 40400), (142, 40367), (147, 40334), (150, 40295),

Gene: SmallFry_101 Start: 50319, Stop: 50951, Start Num: 36
Candidate Starts for SmallFry_101:
(Start: 12 @50232 has 6 MA's), (Start: 36 @50319 has 187 MA's), (111, 50658), (122, 50736), (140, 50844), (155, 50946),

Gene: SoilZilla_97 Start: 51093, Stop: 51725, Start Num: 36
Candidate Starts for SoilZilla_97:
(Start: 36 @51093 has 187 MA's), (111, 51432), (122, 51510), (140, 51618), (155, 51720),

Gene: Soile_47 Start: 39994, Stop: 39434, Start Num: 45
Candidate Starts for Soile_47:
(Start: 25 @40078 has 63 MA's), (Start: 27 @40072 has 4 MA's), (Start: 28 @40069 has 38 MA's), (Start: 45 @39994 has 228 MA's), (56, 39925), (58, 39922), (59, 39919), (71, 39865), (120, 39652), (153, 39445),

Gene: Solosis_46 Start: 39992, Stop: 39432, Start Num: 45
Candidate Starts for Solosis_46:
(Start: 25 @40076 has 63 MA's), (Start: 27 @40070 has 4 MA's), (Start: 28 @40067 has 38 MA's), (Start: 45 @39992 has 228 MA's), (56, 39923), (58, 39920), (59, 39917), (71, 39863), (120, 39650), (153, 39443),

Gene: Sophia_46 Start: 39986, Stop: 39432, Start Num: 45
Candidate Starts for Sophia_46:
(Start: 25 @40070 has 63 MA's), (Start: 27 @40064 has 4 MA's), (Start: 28 @40061 has 38 MA's), (Start: 45 @39986 has 228 MA's), (56, 39923), (58, 39920), (59, 39917), (71, 39863), (120, 39650),

(134, 39584), (153, 39443),

Gene: Soto_47 Start: 40291, Stop: 39731, Start Num: 45
Candidate Starts for Soto_47:
(Start: 37 @40333 has 3 MA's), (Start: 45 @40291 has 228 MA's), (56, 40222), (58, 40219), (59, 40216), (71, 40162), (120, 39949), (153, 39742),

Gene: SparkleGoddess_256 Start: 123985, Stop: 124458, Start Num: 57
Candidate Starts for SparkleGoddess_256:
(53, 123967), (Start: 57 @123985 has 6 MA's), (87, 124111), (88, 124114), (99, 124147), (118, 124222), (122, 124258), (135, 124315), (138, 124333), (150, 124438),

Gene: Spartan300_47 Start: 40277, Stop: 39717, Start Num: 45
Candidate Starts for Spartan300_47:
(Start: 25 @40361 has 63 MA's), (Start: 27 @40355 has 4 MA's), (Start: 28 @40352 has 38 MA's), (Start: 45 @40277 has 228 MA's), (56, 40208), (58, 40205), (59, 40202), (71, 40148), (120, 39935), (153, 39728),

Gene: Spec_98 Start: 50859, Stop: 51491, Start Num: 36
Candidate Starts for Spec_98:
(Start: 12 @50772 has 6 MA's), (Start: 36 @50859 has 187 MA's), (111, 51198), (122, 51276), (140, 51384), (155, 51486),

Gene: Specks_106 Start: 52993, Stop: 53625, Start Num: 36
Candidate Starts for Specks_106:
(Start: 12 @52906 has 6 MA's), (Start: 36 @52993 has 187 MA's), (111, 53332), (122, 53410), (140, 53518), (155, 53620),

Gene: Sprinklers_97 Start: 50378, Stop: 51010, Start Num: 36
Candidate Starts for Sprinklers_97:
(Start: 36 @50378 has 187 MA's), (111, 50717), (122, 50795), (140, 50903), (155, 51005),

Gene: Spud_101 Start: 51893, Stop: 52525, Start Num: 36
Candidate Starts for Spud_101:
(Start: 36 @51893 has 187 MA's), (111, 52232), (122, 52310), (140, 52418), (155, 52520),

Gene: Squid_47 Start: 40067, Stop: 39423, Start Num: 25
Candidate Starts for Squid_47:
(Start: 25 @40067 has 63 MA's), (Start: 27 @40061 has 4 MA's), (Start: 28 @40058 has 38 MA's), (Start: 45 @39983 has 228 MA's), (56, 39914), (58, 39911), (59, 39908), (104, 39743), (120, 39641), (153, 39434),

Gene: Squiggle_47 Start: 40001, Stop: 39441, Start Num: 45
Candidate Starts for Squiggle_47:
(Start: 25 @40085 has 63 MA's), (Start: 27 @40079 has 4 MA's), (Start: 28 @40076 has 38 MA's), (Start: 45 @40001 has 228 MA's), (56, 39932), (58, 39929), (59, 39926), (71, 39872), (120, 39659), (153, 39452),

Gene: SrishMeg2525_100 Start: 51912, Stop: 52544, Start Num: 36
Candidate Starts for SrishMeg2525_100:
(Start: 36 @51912 has 187 MA's), (111, 52251), (122, 52329), (140, 52437), (155, 52539),

Gene: StephanieG_100 Start: 52717, Stop: 53355, Start Num: 36

Candidate Starts for StephanieG_100:
(Start: 36 @52717 has 187 MA's), (111, 53062), (122, 53140), (140, 53248), (155, 53350),

Gene: Stigma_254 Start: 123698, Stop: 124171, Start Num: 57
Candidate Starts for Stigma_254:
(53, 123680), (Start: 57 @123698 has 6 MA's), (87, 123824), (88, 123827), (99, 123860), (118, 123935), (122, 123971), (135, 124028), (138, 124046), (150, 124151),

Gene: Struggle_46 Start: 39833, Stop: 39273, Start Num: 45
Candidate Starts for Struggle_46:
(Start: 25 @39917 has 63 MA's), (Start: 27 @39911 has 4 MA's), (Start: 28 @39908 has 38 MA's), (Start: 45 @39833 has 228 MA's), (56, 39764), (58, 39761), (59, 39758), (71, 39704), (120, 39491), (153, 39284),

Gene: Stubby_94 Start: 50013, Stop: 50645, Start Num: 36
Candidate Starts for Stubby_94:
(Start: 36 @50013 has 187 MA's), (111, 50352), (122, 50430), (140, 50538), (155, 50640),

Gene: StubbySaigey_104 Start: 50510, Stop: 51142, Start Num: 36
Candidate Starts for StubbySaigey_104:
(Start: 36 @50510 has 187 MA's), (111, 50849), (122, 50927), (140, 51035), (155, 51137),

Gene: Substance289_99 Start: 50612, Stop: 51244, Start Num: 36
Candidate Starts for Substance289_99:
(Start: 12 @50525 has 6 MA's), (Start: 36 @50612 has 187 MA's), (111, 50951), (122, 51029), (140, 51137), (155, 51239),

Gene: Suffolk_47 Start: 40282, Stop: 39722, Start Num: 45
Candidate Starts for Suffolk_47:
(Start: 25 @40366 has 63 MA's), (Start: 27 @40360 has 4 MA's), (Start: 28 @40357 has 38 MA's), (Start: 45 @40282 has 228 MA's), (56, 40213), (58, 40210), (59, 40207), (71, 40153), (120, 39940), (153, 39733),

Gene: Sunny_ Start: 11517, Stop: 12002, Start Num: 52
Candidate Starts for Sunny_:
(Start: 52 @11517 has 2 MA's), (82, 11652), (93, 11685), (108, 11730), (118, 11772), (123, 11811), (134, 11850), (141, 11907), (145, 11925), (150, 11982),

Gene: Surely_47 Start: 40288, Stop: 39728, Start Num: 45
Candidate Starts for Surely_47:
(Start: 25 @40372 has 63 MA's), (Start: 27 @40366 has 4 MA's), (Start: 28 @40363 has 38 MA's), (Start: 45 @40288 has 228 MA's), (56, 40219), (58, 40216), (59, 40213), (104, 40048), (120, 39946), (153, 39739),

Gene: SwainyDoc_45 Start: 40202, Stop: 39504, Start Num: 28
Candidate Starts for SwainyDoc_45:
(Start: 21 @40226 has 14 MA's), (Start: 28 @40202 has 38 MA's), (43, 40130), (56, 40049), (59, 40043), (76, 39953), (83, 39914), (96, 39878), (106, 39821), (110, 39803), (119, 39743), (127, 39698), (132, 39662), (138, 39629), (142, 39596), (147, 39563), (150, 39524),

Gene: Swiphy_47 Start: 40283, Stop: 39723, Start Num: 45
Candidate Starts for Swiphy_47:

(Start: 25 @40367 has 63 MA's), (Start: 27 @40361 has 4 MA's), (Start: 28 @40358 has 38 MA's), (Start: 45 @40283 has 228 MA's), (56, 40214), (58, 40211), (59, 40208), (104, 40043), (120, 39941), (153, 39734),

Gene: Swish_48 Start: 40406, Stop: 39846, Start Num: 45
Candidate Starts for Swish_48:
(Start: 25 @40490 has 63 MA's), (Start: 27 @40484 has 4 MA's), (Start: 28 @40481 has 38 MA's), (Start: 45 @40406 has 228 MA's), (56, 40337), (58, 40334), (59, 40331), (71, 40277), (120, 40064),

Gene: SynergyX_45 Start: 40208, Stop: 39510, Start Num: 28
Candidate Starts for SynergyX_45:
(3, 40454), (4, 40388), (10, 40277), (Start: 14 @40259 has 1 MA's), (16, 40253), (Start: 28 @40208 has 38 MA's), (43, 40136), (56, 40055), (59, 40049), (76, 39959), (83, 39920), (96, 39884), (106, 39827), (110, 39809), (119, 39749), (127, 39704), (132, 39668), (138, 39635), (142, 39602), (147, 39569), (150, 39530),

Gene: Tainan_105 Start: 52316, Stop: 52948, Start Num: 36
Candidate Starts for Tainan_105:
(Start: 12 @52229 has 6 MA's), (Start: 36 @52316 has 187 MA's), (111, 52655), (122, 52733), (140, 52841), (155, 52943),

Gene: TallGrassMM_47 Start: 39985, Stop: 39347, Start Num: 25
Candidate Starts for TallGrassMM_47:
(Start: 25 @39985 has 63 MA's), (Start: 27 @39979 has 4 MA's), (Start: 28 @39976 has 38 MA's), (Start: 45 @39901 has 228 MA's), (56, 39838), (58, 39835), (59, 39832), (71, 39778), (120, 39565), (134, 39499), (153, 39358),

Gene: Taraxa_47 Start: 39486, Stop: 38926, Start Num: 45
Candidate Starts for Taraxa_47:
(Start: 25 @39570 has 63 MA's), (Start: 27 @39564 has 4 MA's), (Start: 28 @39561 has 38 MA's), (Start: 45 @39486 has 228 MA's), (58, 39414), (59, 39411), (71, 39357), (120, 39144), (153, 38937),

Gene: Teardrop_100 Start: 50317, Stop: 50949, Start Num: 36
Candidate Starts for Teardrop_100:
(Start: 12 @50230 has 6 MA's), (Start: 36 @50317 has 187 MA's), (111, 50656), (122, 50734), (140, 50842), (155, 50944),

Gene: Telesworld_46 Start: 39980, Stop: 39420, Start Num: 45
Candidate Starts for Telesworld_46:
(Start: 25 @40064 has 63 MA's), (Start: 27 @40058 has 4 MA's), (Start: 28 @40055 has 38 MA's), (Start: 45 @39980 has 228 MA's), (56, 39911), (58, 39908), (59, 39905), (71, 39851), (104, 39740), (120, 39638), (153, 39431),

Gene: Thales_63 Start: 57547, Stop: 58155, Start Num: 34
Candidate Starts for Thales_63:
(20, 57490), (Start: 34 @57547 has 11 MA's), (70, 57727), (75, 57754), (79, 57772), (87, 57808), (91, 57820), (94, 57829), (117, 57907), (145, 58075),

Gene: Thora_47 Start: 40287, Stop: 39727, Start Num: 45
Candidate Starts for Thora_47:
(Start: 25 @40371 has 63 MA's), (Start: 27 @40365 has 4 MA's), (Start: 28 @40362 has 38 MA's), (Start: 45 @40287 has 228 MA's), (56, 40218), (58, 40215), (59, 40212), (104, 40047), (120, 39945), (153, 39738),

Gene: ThreeOh3D2_48 Start: 40504, Stop: 39860, Start Num: 25
Candidate Starts for ThreeOh3D2_48:
(Start: 25 @40504 has 63 MA's), (Start: 27 @40498 has 4 MA's), (Start: 28 @40495 has 38 MA's), (Start: 45 @40420 has 228 MA's), (56, 40351), (58, 40348), (59, 40345), (71, 40291), (120, 40078),

Gene: Thumb_41 Start: 37003, Stop: 37635, Start Num: 34
Candidate Starts for Thumb_41:
(Start: 34 @37003 has 11 MA's), (51, 37090), (Start: 52 @37099 has 2 MA's), (Start: 54 @37111 has 5 MA's), (Start: 60 @37132 has 1 MA's), (69, 37177), (97, 37291), (117, 37369), (118, 37378), (127, 37432), (133, 37471), (138, 37501), (145, 37549), (149, 37597), (153, 37621),

Gene: Thunderbird_46 Start: 40072, Stop: 39428, Start Num: 25
Candidate Starts for Thunderbird_46:
(Start: 25 @40072 has 63 MA's), (Start: 27 @40066 has 4 MA's), (Start: 28 @40063 has 38 MA's), (Start: 45 @39988 has 228 MA's), (56, 39919), (58, 39916), (59, 39913), (71, 39859), (120, 39646), (153, 39439),

Gene: Timmi_46 Start: 39987, Stop: 39433, Start Num: 45
Candidate Starts for Timmi_46:
(Start: 25 @40071 has 63 MA's), (Start: 27 @40065 has 4 MA's), (Start: 28 @40062 has 38 MA's), (Start: 45 @39987 has 228 MA's), (56, 39924), (58, 39921), (59, 39918), (71, 39864), (120, 39651), (134, 39585), (153, 39444),

Gene: TinyTerror_45 Start: 40217, Stop: 39495, Start Num: 21
Candidate Starts for TinyTerror_45:
(Start: 21 @40217 has 14 MA's), (Start: 28 @40193 has 38 MA's), (43, 40121), (56, 40040), (59, 40034), (76, 39944), (83, 39905), (96, 39869), (106, 39812), (110, 39794), (119, 39734), (127, 39689), (132, 39653), (138, 39620), (142, 39587), (147, 39554), (150, 39515),

Gene: TinyTim_101 Start: 51570, Stop: 52202, Start Num: 36
Candidate Starts for TinyTim_101:
(Start: 36 @51570 has 187 MA's), (111, 51909), (122, 51987), (140, 52095), (155, 52197),

Gene: TomBombadil_47 Start: 40272, Stop: 39718, Start Num: 45
Candidate Starts for TomBombadil_47:
(Start: 25 @40356 has 63 MA's), (Start: 27 @40350 has 4 MA's), (Start: 28 @40347 has 38 MA's), (Start: 45 @40272 has 228 MA's), (56, 40209), (58, 40206), (59, 40203), (71, 40149), (120, 39936), (134, 39870), (153, 39729),

Gene: Tomlarah_47 Start: 40275, Stop: 39715, Start Num: 45
Candidate Starts for Tomlarah_47:
(Start: 25 @40359 has 63 MA's), (Start: 27 @40353 has 4 MA's), (Start: 28 @40350 has 38 MA's), (Start: 45 @40275 has 228 MA's), (56, 40206), (58, 40203), (59, 40200), (71, 40146), (120, 39933), (153, 39726),

Gene: Tonenili_116 Start: 55317, Stop: 55949, Start Num: 36
Candidate Starts for Tonenili_116:
(11, 55221), (Start: 36 @55317 has 187 MA's), (111, 55656), (119, 55713), (122, 55734), (140, 55842), (155, 55944),

Gene: Toni_46 Start: 39979, Stop: 39425, Start Num: 45
Candidate Starts for Toni_46:

(Start: 25 @40063 has 63 MA's), (Start: 27 @40057 has 4 MA's), (Start: 28 @40054 has 38 MA's), (Start: 45 @39979 has 228 MA's), (56, 39916), (58, 39913), (59, 39910), (71, 39856), (120, 39643), (134, 39577), (153, 39436),

Gene: TooFast2Furius_48 Start: 40601, Stop: 39957, Start Num: 25
Candidate Starts for TooFast2Furius_48:
(Start: 25 @40601 has 63 MA's), (Start: 27 @40595 has 4 MA's), (Start: 28 @40592 has 38 MA's), (Start: 45 @40517 has 228 MA's), (56, 40448), (58, 40445), (59, 40442), (71, 40388), (120, 40175), (153, 39968),

Gene: Tooj_47 Start: 40342, Stop: 39782, Start Num: 45
Candidate Starts for Tooj_47:
(Start: 25 @40426 has 63 MA's), (Start: 27 @40420 has 4 MA's), (Start: 28 @40417 has 38 MA's), (Start: 45 @40342 has 228 MA's), (56, 40273), (58, 40270), (59, 40267), (71, 40213), (104, 40102), (120, 40000), (153, 39793),

Gene: Tortoise16_98 Start: 50918, Stop: 51550, Start Num: 36
Candidate Starts for Tortoise16_98:
(Start: 12 @50831 has 6 MA's), (Start: 36 @50918 has 187 MA's), (111, 51257), (122, 51335), (140, 51443), (155, 51545),

Gene: TraderJ_42 Start: 35883, Stop: 35308, Start Num: 35
Candidate Starts for TraderJ_42:
(Start: 35 @35883 has 11 MA's), (46, 35844), (69, 35733), (80, 35694), (114, 35571), (117, 35559), (118, 35550), (124, 35508), (125, 35505), (126, 35502), (128, 35493),

Gene: Triad_47 Start: 39230, Stop: 38586, Start Num: 25
Candidate Starts for Triad_47:
(Start: 25 @39230 has 63 MA's), (Start: 27 @39224 has 4 MA's), (Start: 28 @39221 has 38 MA's), (Start: 45 @39146 has 228 MA's), (56, 39077), (58, 39074), (59, 39071), (71, 39017), (104, 38906), (120, 38804), (153, 38597),

Gene: Trinitium_98 Start: 50276, Stop: 50908, Start Num: 36
Candidate Starts for Trinitium_98:
(Start: 36 @50276 has 187 MA's), (111, 50615), (122, 50693), (140, 50801), (155, 50903),

Gene: True_46 Start: 39985, Stop: 39425, Start Num: 45
Candidate Starts for True_46:
(Start: 25 @40069 has 63 MA's), (Start: 27 @40063 has 4 MA's), (Start: 28 @40060 has 38 MA's), (Start: 45 @39985 has 228 MA's), (56, 39916), (58, 39913), (59, 39910), (104, 39745), (120, 39643), (153, 39436),

Gene: Trypo_48 Start: 40500, Stop: 39856, Start Num: 25
Candidate Starts for Trypo_48:
(Start: 25 @40500 has 63 MA's), (Start: 27 @40494 has 4 MA's), (Start: 28 @40491 has 38 MA's), (Start: 45 @40416 has 228 MA's), (56, 40347), (58, 40344), (59, 40341), (71, 40287), (120, 40074),

Gene: Turret_96 Start: 49715, Stop: 50353, Start Num: 36
Candidate Starts for Turret_96:
(Start: 36 @49715 has 187 MA's), (111, 50060), (122, 50138), (140, 50246), (155, 50348),

Gene: Tydolla_45 Start: 40942, Stop: 40244, Start Num: 28
Candidate Starts for Tydolla_45:

(3, 41188), (4, 41122), (10, 41011), (Start: 14 @40993 has 1 MA's), (16, 40987), (Start: 28 @40942 has 38 MA's), (43, 40870), (56, 40789), (59, 40783), (76, 40693), (83, 40654), (96, 40618), (106, 40561), (110, 40543), (119, 40483), (127, 40438), (132, 40402), (138, 40369), (142, 40336), (147, 40303), (150, 40264),

Gene: Tyke_102 Start: 52459, Stop: 53091, Start Num: 36
Candidate Starts for Tyke_102:
(Start: 12 @52372 has 6 MA's), (Start: 36 @52459 has 187 MA's), (111, 52798), (122, 52876), (140, 52984), (155, 53086),

Gene: TyrionL_46 Start: 39841, Stop: 39281, Start Num: 45
Candidate Starts for TyrionL_46:
(Start: 25 @39925 has 63 MA's), (Start: 27 @39919 has 4 MA's), (Start: 28 @39916 has 38 MA's), (Start: 45 @39841 has 228 MA's), (56, 39772), (58, 39769), (59, 39766), (104, 39601), (120, 39499), (153, 39292),

Gene: UAch1_47 Start: 40294, Stop: 39734, Start Num: 45
Candidate Starts for UAch1_47:
(Start: 25 @40378 has 63 MA's), (Start: 27 @40372 has 4 MA's), (Start: 28 @40369 has 38 MA's), (Start: 45 @40294 has 228 MA's), (56, 40225), (58, 40222), (59, 40219), (104, 40054), (120, 39952), (153, 39745),

Gene: UncleHowie_47 Start: 40068, Stop: 39424, Start Num: 25
Candidate Starts for UncleHowie_47:
(Start: 25 @40068 has 63 MA's), (Start: 27 @40062 has 4 MA's), (Start: 28 @40059 has 38 MA's), (Start: 45 @39984 has 228 MA's), (56, 39915), (58, 39912), (59, 39909), (104, 39744), (120, 39642), (153, 39435),

Gene: Usavi_47 Start: 40282, Stop: 39722, Start Num: 45
Candidate Starts for Usavi_47:
(Start: 45 @40282 has 228 MA's), (56, 40213), (58, 40210), (59, 40207), (71, 40153), (120, 39940), (153, 39733),

Gene: Vaishali24_46 Start: 40027, Stop: 39383, Start Num: 25
Candidate Starts for Vaishali24_46:
(Start: 25 @40027 has 63 MA's), (Start: 27 @40021 has 4 MA's), (Start: 28 @40018 has 38 MA's), (Start: 45 @39943 has 228 MA's), (56, 39874), (58, 39871), (59, 39868), (71, 39814), (104, 39703), (120, 39601), (153, 39394),

Gene: Valjean_47 Start: 40280, Stop: 39720, Start Num: 45
Candidate Starts for Valjean_47:
(Start: 25 @40364 has 63 MA's), (Start: 27 @40358 has 4 MA's), (Start: 28 @40355 has 38 MA's), (Start: 45 @40280 has 228 MA's), (56, 40211), (58, 40208), (59, 40205), (71, 40151), (120, 39938), (153, 39731),

Gene: ValleyTerrace_101 Start: 50338, Stop: 50970, Start Num: 36
Candidate Starts for ValleyTerrace_101:
(Start: 12 @50251 has 6 MA's), (Start: 36 @50338 has 187 MA's), (111, 50677), (122, 50755), (140, 50863), (155, 50965),

Gene: Vaticameos_43 Start: 38050, Stop: 37412, Start Num: 25
Candidate Starts for Vaticameos_43:

(Start: 25 @38050 has 63 MA's), (Start: 27 @38044 has 4 MA's), (Start: 28 @38041 has 38 MA's), (Start: 45 @37966 has 228 MA's), (56, 37903), (58, 37900), (59, 37897), (71, 37843), (120, 37630), (134, 37564), (153, 37423),

Gene: Vectra_46 Start: 39919, Stop: 39281, Start Num: 25
Candidate Starts for Vectra_46:
(Start: 25 @39919 has 63 MA's), (Start: 27 @39913 has 4 MA's), (Start: 28 @39910 has 38 MA's), (Start: 45 @39835 has 228 MA's), (56, 39772), (58, 39769), (59, 39766), (71, 39712), (120, 39499), (153, 39292),

Gene: Veritas_46 Start: 39847, Stop: 39287, Start Num: 45
Candidate Starts for Veritas_46:
(Start: 25 @39931 has 63 MA's), (Start: 27 @39925 has 4 MA's), (Start: 28 @39922 has 38 MA's), (Start: 45 @39847 has 228 MA's), (58, 39775), (59, 39772), (71, 39718), (104, 39607), (120, 39505), (153, 39298),

Gene: Vincenzo_43 Start: 41068, Stop: 40448, Start Num: 31
Candidate Starts for Vincenzo_43:
(Start: 31 @41068 has 2 MA's), (58, 40942), (65, 40909), (72, 40882), (77, 40849), (102, 40774), (104, 40768), (117, 40702), (131, 40621), (146, 40528), (153, 40459),

Gene: Virapocalypse_47 Start: 40275, Stop: 39715, Start Num: 45
Candidate Starts for Virapocalypse_47:
(Start: 25 @40359 has 63 MA's), (Start: 27 @40353 has 4 MA's), (Start: 28 @40350 has 38 MA's), (Start: 45 @40275 has 228 MA's), (56, 40206), (58, 40203), (59, 40200), (104, 40035), (120, 39933), (153, 39726),

Gene: Virgeve_46 Start: 40052, Stop: 39492, Start Num: 45
Candidate Starts for Virgeve_46:
(Start: 25 @40136 has 63 MA's), (Start: 27 @40130 has 4 MA's), (Start: 28 @40127 has 38 MA's), (Start: 45 @40052 has 228 MA's), (56, 39983), (58, 39980), (59, 39977), (71, 39923), (120, 39710), (153, 39503),

Gene: Vista_47 Start: 40363, Stop: 39725, Start Num: 27
Candidate Starts for Vista_47:
(Start: 25 @40369 has 63 MA's), (Start: 27 @40363 has 4 MA's), (Start: 28 @40360 has 38 MA's), (Start: 45 @40285 has 228 MA's), (56, 40216), (58, 40213), (59, 40210), (104, 40045), (120, 39943), (153, 39736),

Gene: Vivaldi_47 Start: 40389, Stop: 39751, Start Num: 27
Candidate Starts for Vivaldi_47:
(5, 40509), (22, 40404), (Start: 27 @40389 has 4 MA's), (Start: 28 @40386 has 38 MA's), (Start: 45 @40311 has 228 MA's), (56, 40242), (58, 40239), (59, 40236), (104, 40071), (120, 39969), (153, 39762),

Gene: Vortex_47 Start: 40066, Stop: 39428, Start Num: 25
Candidate Starts for Vortex_47:
(Start: 25 @40066 has 63 MA's), (Start: 27 @40060 has 4 MA's), (Start: 28 @40057 has 38 MA's), (Start: 45 @39982 has 228 MA's), (56, 39919), (58, 39916), (59, 39913), (71, 39859), (120, 39646), (134, 39580), (153, 39439),

Gene: Vortrix_115 Start: 54635, Stop: 55267, Start Num: 36
Candidate Starts for Vortrix_115:

(11, 54539), (Start: 36 @54635 has 187 MA's), (111, 54974), (122, 55052), (140, 55160), (155, 55262),

Gene: Wallhey_46 Start: 39845, Stop: 39285, Start Num: 45
Candidate Starts for Wallhey_46:
(Start: 25 @39929 has 63 MA's), (Start: 27 @39923 has 4 MA's), (Start: 28 @39920 has 38 MA's), (Start: 45 @39845 has 228 MA's), (56, 39776), (58, 39773), (59, 39770), (104, 39605), (120, 39503), (153, 39296),

Gene: Wally_100 Start: 50348, Stop: 50980, Start Num: 36
Candidate Starts for Wally_100:
(Start: 36 @50348 has 187 MA's), (111, 50687), (122, 50765), (140, 50873), (155, 50975),

Gene: Waterdiva_47 Start: 40361, Stop: 39717, Start Num: 25
Candidate Starts for Waterdiva_47:
(Start: 25 @40361 has 63 MA's), (Start: 27 @40355 has 4 MA's), (Start: 28 @40352 has 38 MA's), (Start: 45 @40277 has 228 MA's), (56, 40208), (58, 40205), (59, 40202), (71, 40148), (120, 39935), (153, 39728),

Gene: Weher20_47 Start: 40276, Stop: 39716, Start Num: 45
Candidate Starts for Weher20_47:
(Start: 25 @40360 has 63 MA's), (Start: 27 @40354 has 4 MA's), (Start: 28 @40351 has 38 MA's), (Start: 45 @40276 has 228 MA's), (56, 40207), (58, 40204), (59, 40201), (71, 40147), (104, 40036), (120, 39934), (153, 39727),

Gene: Westy_258 Start: 124515, Stop: 124988, Start Num: 57
Candidate Starts for Westy_258:
(53, 124497), (Start: 57 @124515 has 6 MA's), (87, 124641), (88, 124644), (99, 124677), (118, 124752), (122, 124788), (123, 124791), (135, 124845), (138, 124863), (147, 124929), (150, 124968),

Gene: Widow_49 Start: 37464, Stop: 36880, Start Num: 37
Candidate Starts for Widow_49:
(10, 37569), (18, 37536), (33, 37476), (Start: 37 @37464 has 3 MA's), (39, 37455), (Start: 60 @37359 has 1 MA's), (81, 37254), (98, 37203), (139, 36993), (150, 36900),

Gene: Willis_102 Start: 51699, Stop: 52337, Start Num: 36
Candidate Starts for Willis_102:
(Start: 36 @51699 has 187 MA's), (111, 52044), (140, 52230), (155, 52332),

Gene: Windsor_46 Start: 39981, Stop: 39421, Start Num: 45
Candidate Starts for Windsor_46:
(Start: 25 @40065 has 63 MA's), (Start: 27 @40059 has 4 MA's), (Start: 28 @40056 has 38 MA's), (Start: 45 @39981 has 228 MA's), (56, 39912), (58, 39909), (59, 39906), (71, 39852), (120, 39639), (153, 39432),

Gene: Wooper_42 Start: 35889, Stop: 35314, Start Num: 35
Candidate Starts for Wooper_42:
(Start: 35 @35889 has 11 MA's), (46, 35850), (69, 35739), (80, 35700), (114, 35577), (117, 35565), (118, 35556), (124, 35514), (125, 35511), (126, 35508), (128, 35499),

Gene: Xavier_46 Start: 40073, Stop: 39435, Start Num: 25
Candidate Starts for Xavier_46:
(Start: 25 @40073 has 63 MA's), (Start: 27 @40067 has 4 MA's), (Start: 28 @40064 has 38 MA's), (Start: 45 @39989 has 228 MA's), (56, 39926), (58, 39923), (59, 39920), (71, 39866), (120, 39653),

(134, 39587), (153, 39446),

Gene: Yahalom_45 Start: 40218, Stop: 39520, Start Num: 28
Candidate Starts for Yahalom_45:
(3, 40464), (4, 40398), (10, 40287), (Start: 14 @40269 has 1 MA's), (16, 40263), (Start: 28 @40218 has 38 MA's), (43, 40146), (56, 40065), (59, 40059), (76, 39969), (83, 39930), (96, 39894), (106, 39837), (110, 39819), (119, 39759), (127, 39714), (132, 39678), (138, 39645), (142, 39612), (147, 39579), (150, 39540),

Gene: Yassified_98 Start: 50425, Stop: 51057, Start Num: 36
Candidate Starts for Yassified_98:
(Start: 36 @50425 has 187 MA's), (111, 50764), (122, 50842), (140, 50950), (155, 51052),

Gene: YemiJoy2021_102 Start: 51801, Stop: 52439, Start Num: 36
Candidate Starts for YemiJoy2021_102:
(Start: 36 @51801 has 187 MA's), (111, 52146), (122, 52224), (140, 52332), (155, 52434),

Gene: Yeshua_42 Start: 35866, Stop: 35291, Start Num: 35
Candidate Starts for Yeshua_42:
(Start: 35 @35866 has 11 MA's), (46, 35827), (69, 35716), (80, 35677), (114, 35554), (117, 35542), (118, 35533), (124, 35491), (125, 35488), (126, 35485), (128, 35476),

Gene: Yinz_45 Start: 40244, Stop: 39546, Start Num: 28
Candidate Starts for Yinz_45:
(3, 40490), (4, 40424), (10, 40313), (Start: 14 @40295 has 1 MA's), (16, 40289), (Start: 28 @40244 has 38 MA's), (43, 40172), (56, 40091), (59, 40085), (76, 39995), (83, 39956), (96, 39920), (106, 39863), (110, 39845), (119, 39785), (127, 39740), (132, 39704), (136, 39680), (138, 39671), (142, 39638), (147, 39605), (150, 39566),

Gene: Yoshand_48 Start: 40419, Stop: 39859, Start Num: 45
Candidate Starts for Yoshand_48:
(Start: 25 @40503 has 63 MA's), (Start: 27 @40497 has 4 MA's), (Start: 28 @40494 has 38 MA's), (Start: 45 @40419 has 228 MA's), (56, 40350), (58, 40347), (59, 40344), (71, 40290), (120, 40077),

Gene: YouGoGlencoco_47 Start: 40279, Stop: 39719, Start Num: 45
Candidate Starts for YouGoGlencoco_47:
(Start: 25 @40363 has 63 MA's), (Start: 27 @40357 has 4 MA's), (Start: 28 @40354 has 38 MA's), (Start: 45 @40279 has 228 MA's), (56, 40210), (58, 40207), (59, 40204), (104, 40039), (120, 39937), (153, 39730),

Gene: YoungMoneyMata_102 Start: 50971, Stop: 51603, Start Num: 36
Candidate Starts for YoungMoneyMata_102:
(Start: 36 @50971 has 187 MA's), (111, 51310), (122, 51388), (140, 51496), (155, 51598),

Gene: Yucca_101 Start: 51489, Stop: 52121, Start Num: 36
Candidate Starts for Yucca_101:
(Start: 36 @51489 has 187 MA's), (111, 51828), (122, 51906), (140, 52014), (155, 52116),

Gene: Zaider_48 Start: 40509, Stop: 39949, Start Num: 45
Candidate Starts for Zaider_48:
(Start: 25 @40593 has 63 MA's), (Start: 27 @40587 has 4 MA's), (Start: 28 @40584 has 38 MA's), (Start: 45 @40509 has 228 MA's), (56, 40440), (58, 40437), (59, 40434), (104, 40269), (120, 40167), (153, 39960),

Gene: Zalkecks_102 Start: 51490, Stop: 52122, Start Num: 36
Candidate Starts for Zalkecks_102:
(Start: 36 @51490 has 187 MA's), (111, 51829), (122, 51907), (140, 52015), (155, 52117),

Gene: Zeenon_103 Start: 51575, Stop: 52207, Start Num: 36
Candidate Starts for Zeenon_103:
(Start: 36 @51575 has 187 MA's), (111, 51914), (122, 51992), (140, 52100), (155, 52202),

Gene: Zelda_47 Start: 40326, Stop: 39766, Start Num: 45
Candidate Starts for Zelda_47:
(Start: 25 @40410 has 63 MA's), (Start: 27 @40404 has 4 MA's), (Start: 28 @40401 has 38 MA's), (Start: 45 @40326 has 228 MA's), (56, 40257), (58, 40254), (59, 40251), (104, 40086), (120, 39984), (153, 39777),

Gene: Zonia_47 Start: 40296, Stop: 39736, Start Num: 45
Candidate Starts for Zonia_47:
(Start: 25 @40380 has 63 MA's), (Start: 27 @40374 has 4 MA's), (Start: 28 @40371 has 38 MA's), (Start: 45 @40296 has 228 MA's), (56, 40227), (58, 40224), (59, 40221), (104, 40056), (120, 39954), (153, 39747),

Gene: ZygoTaiga_100 Start: 52729, Stop: 53367, Start Num: 36
Candidate Starts for ZygoTaiga_100:
(Start: 36 @52729 has 187 MA's), (111, 53074), (122, 53152), (140, 53260), (155, 53362),