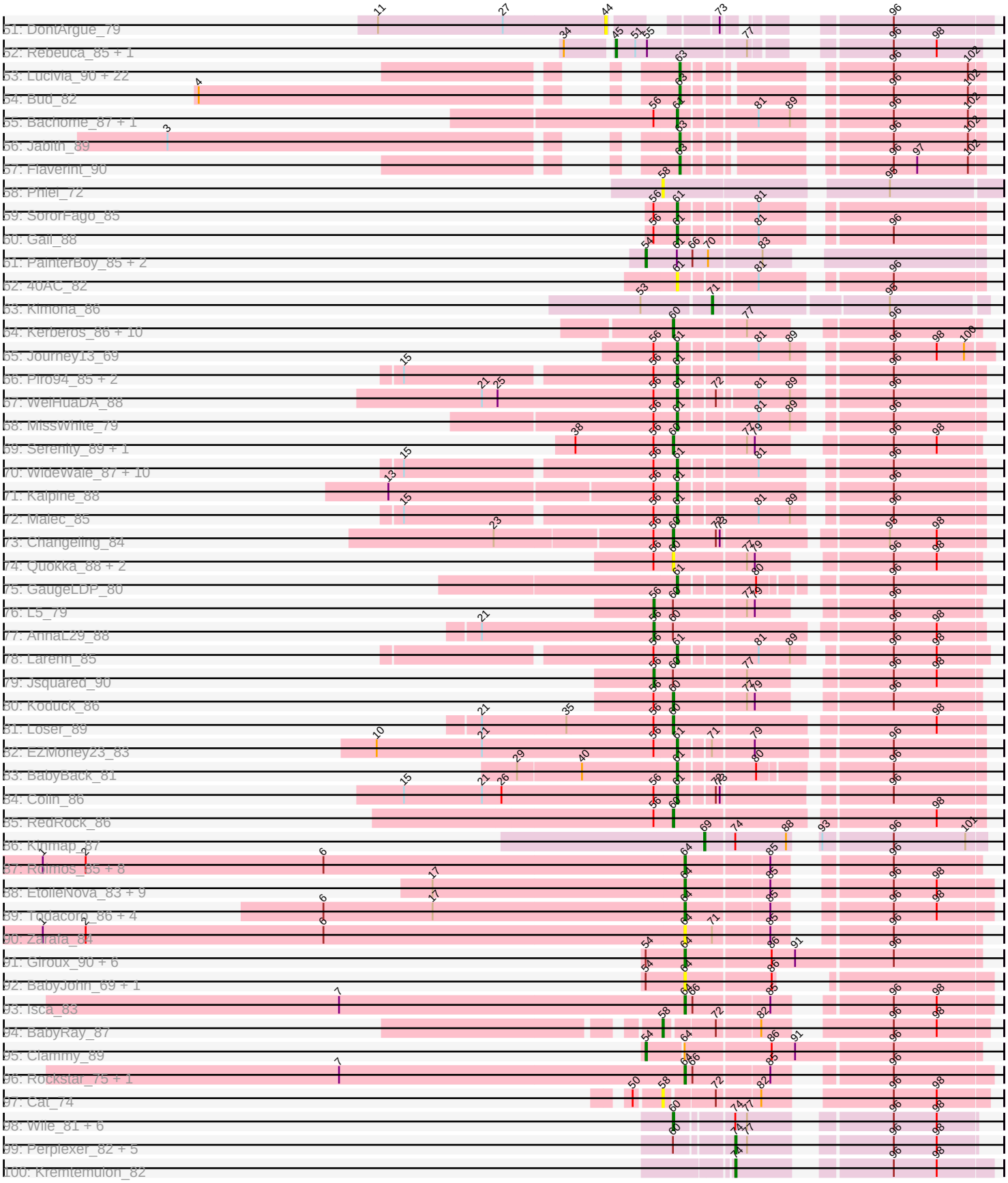
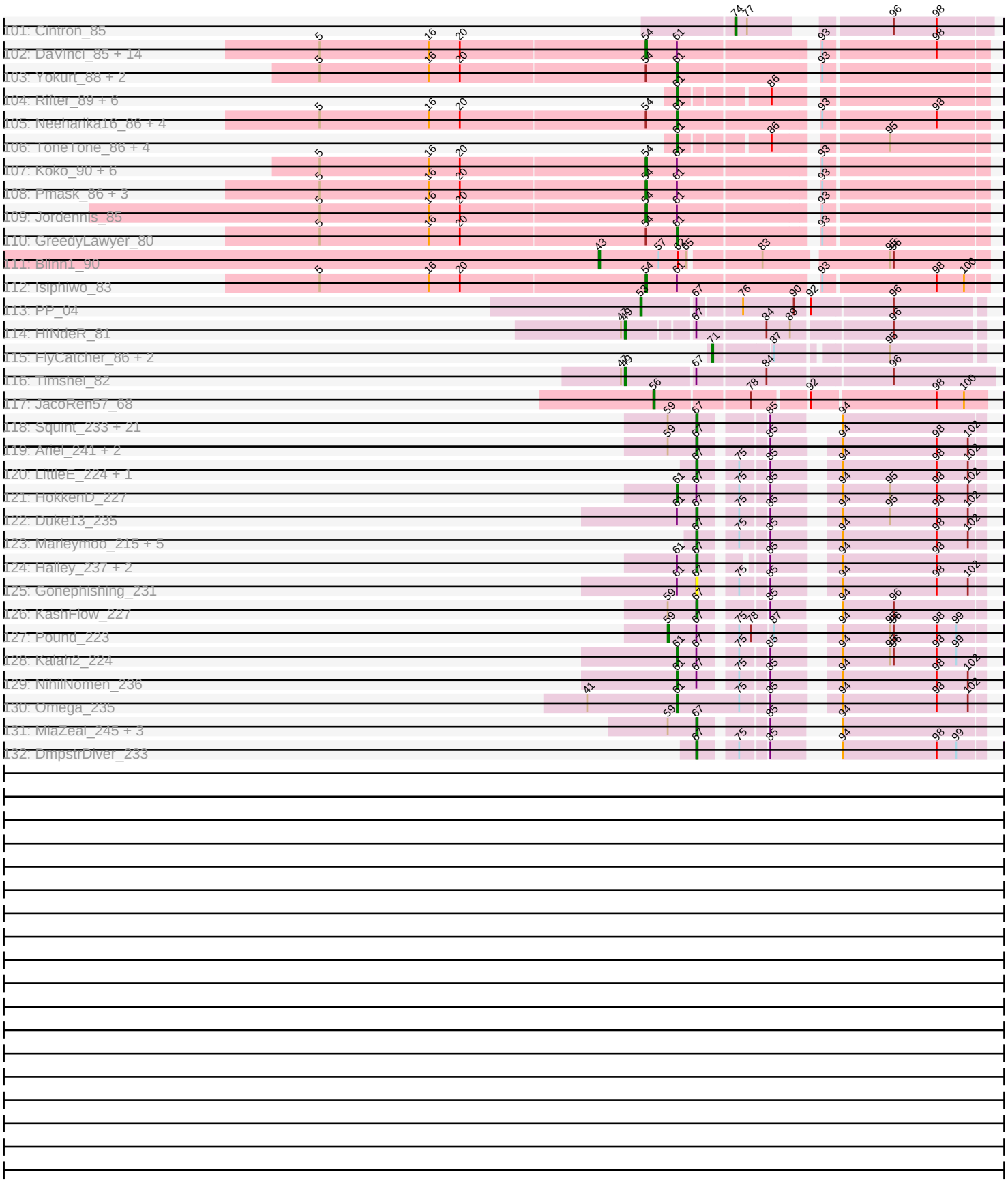
Pham 347082


1: Monet_92 + 7
2: BaconJack_94
3: Trait412_86 + 86
4: KSSJEB_91 + 4
5: Pari_92 + 6
6: Philippers_89 + 17
7: Big3_91
8: Levia_85 + 6
9: LilBib_80 + 8
10: Sagefire_86 + 18
11: Dynamix_92 + 2
12: Naira_96 + 2
13: Bones_86
14: ShortQueendom_82
15: ChristmasHams_80 + 9
16: Raid_89 + 1
17: Smairt_97 + 9
18: Paphu_87
19: BeesKnees_95 + 3
20: Gwendoluna_91 + 2
21: IgnatiusPatJac_87 + 2
22: Scowl_90
23: Parliament_90
24: Ichabod_96 + 3
25: KyMonks1A_96 + 3
26: Ringer_90
27: Rhynn_85
28: Watermelon_89
29: Peterson_90
30: Manatee_92 + 1
31: Buttons_85
32: Violet_87
33: HanShotFirst_90
34: Petruchio_88
35: Pippin_93
36: ProMouse_92
37: Gyzlar_83
38: Anglerfish_93
39: Papez_93 + 2
40: QTRifleCrisis_86
41: Froghopper_79
42: Magnito_91
43: Smeagol_90
44: Eaglepride_87
45: Goose_85 + 2
46: KittenMittens_79 + 3
47: WalterMcMickey_84
48: Topanga_74
49: Poompha_81
50: Twister_85

Pham 347082


51: DontArgue_79
52: Rebeuca_85 + 1
53: Lucivia_90 + 22
54: Bud_82
55: Bachome_87 + 1
56: Jabith_89
57: Flaverint_90
58: Phiel_72
59: SororFago_85
60: Gail_88
61: PainterBoy_85 + 2
62: 40AC_82
63: Kimona_86
64: Kerberos_86 + 10
65: Journey13_69
66: Piro94_85 + 2
67: WeiHuaDA_88
68: MissWhite_79
69: Serenity_89 + 1
70: WideWale_87 + 10
71: Kalpine_88
72: Malec_85
73: Changeling_84
74: Quokka_88 + 2
75: GaugeLDP_80
76: L5_79
77: AnnaL29_88
78: Larenn_85
79: Jsquared_90
80: Koduck_86
81: Loser_89
82: EZMoney23_83
83: BabyBack_81
84: Colin_86
85: RedRock_86
86: Klimap_87
87: Rolmos_85 + 8
88: EtoileNova_83 + 9
89: Todacoro_86 + 4
90: Zarafa_84
91: Giroux_90 + 6
92: BabyJohn_69 + 1
93: Isca_83
94: BabyRay_87
95: Clammy_89
96: Rockstar_75 + 1
97: Cat_74
98: Wile_81 + 6
99: Perplexer_82 + 5
100: Kremlemulon_82

Pham 347082


101: Cintron_85
102: DaVinci_85 + 14
103: Yokuri_88 + 2
104: Ritter_89 + 6
105: Neeharika16_86 + 4
106: ToneTone_86 + 4
107: Koko_90 + 6
108: Pmask_86 + 3
109: Jordenmis_85
110: GreedyLawyer_80
111: Blinn1_90
112: Isiphiwo_83
113: PP_04
114: RiNdeR_81
115: FlyCatcher_86 + 2
116: Timshel_82
117: JacoRen57_68
118: Squint_233 + 21
119: Ariel_241 + 2
120: LittleE_224 + 1
121: RokkenD_227
122: Duke13_235
123: Maneymoo_215 + 5
124: Halley_237 + 2
125: Gonephishing_231
126: KashFlow_227
127: Pound_223
128: Kalah2_224
129: NihilNomen_236
130: Omega_235
131: MiaZeal_245 + 3
132: DmpstrDiver_233

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 347082 Report

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

Pham number 347082 has 494 members, 44 are drafts.

Phages represented in each track:
• Track 1 : Monet_92, Inyanga_82, Iqorha_82, Bxb1_84, Fushigi_84, Treddle_90, Homines_83, Crispicous1_86
• Track 2 : BaconJack_94
• Track 3 : Traft412_86, Petp2012_89, CatBus_81, STLscum_100, Pepe_86, Rajelicia_89, Bigfoot_86, Sibs6_95, Magnar_91, Greg_90, Carlyle_91, MrGordo_92, Adahisdi_85, DirtDevil_83, Kugel_94, Sanya_85, SwissCheese_95, Dussy_87, Dexes_93, Arcanine_94, TheloniousMonk_90, Sandaddy_90, Abbyshoes_89, Chanagan_91, CactusRose_96, Forsytheast_96, Puppet_90, Pelly_94, Ohno789_95, Ajay_84, Bruns_96, Turj99_86, Hermia_84, Niza_89, Euphoria_95, Mkhuseli_91, Fajezeel_90, GrecoEtereo_92, McSinger_84, ILeeKay_91, Ruotula_94, Rufus_93, Bethlehem_87, Corvo_94, Burton_90, Lopton_88, Wheeler_96, Oogway_87, PattyP_92, Tripl3t_91, Arlo_96, KikiBouba_87, PowerRanger_85, Atkinbua_98, MetalQZJ_88, DrFeelGood_85, BillKnuckles_86, Kykar_88, Bigchungi_86, BigPaolini_85, ConceptII_97, Alvin_86, Museum_90, GroundGoblin_83, Zephyr_92, Blesser_85, Noxious_89, Moose_95, Whitspit_82, Kenmech_93, GageAP_90, Aldrich_83, Ciao_94, Sorpresa_93, Maroc7_92, MaryBeth_91, Fascinus_86, DreamCatcher_102, NEHalo_88, Blackflame_88, Acme_91, AFIS_88, Eyeball_94, Rubeus_88, Hope4ever_88, Snazzy_92, SpikeBT_87
• Track 4 : KSSJEB_91, Kanely_93, Seanderson_89, Altman_94, CartmannCramer_82
• Track 5 : Pari_92, A6_85, BK1_85, PherrisBueller_88, Killigrew_87, EnzoK_94, Zeeculate_91
• Track 6 : Phlippers_89, Bob3_90, Gandalf20_90, RidgeCB_89, Solon_83, Edtherson_87, Paraselene_87, Abrogate_880, Sunshine924_93, Topgun_89, Wilkins_90, StewieG_85, SkiPole_98, Rutherferd_91, Jorgensen_100, Applejack_88, Marco3_91, Ashballer_91
• Track 7 : Big3_91
• Track 8 : Levia_85, Mryolo_84, PhineBark_85, Espresso_87, Marchy_81, Teodoridan_93, Payneful_77
• Track 9 : LilBib_80, Agaliana_87, Seabiscuit_95, Norz_90, Francis47_93, Marcell_83, Slagathor_92, PacerPaul_93, Pinto_87
• Track 10 : Sagefire_86, Barriga_101, Lamina13_93, Gachnar_77, Marsha_93, Sumter_87, Aeneas_96, Nerujay_93, Jerm2_90, HermioneGrange_94, Marge_87, Hami1_87, MilleFeuille_94, JC27_94, Nhonho_87, HarryOW_91, Rohr_92, BigMau_91, MPlant7149_90
• Track 11 : Dynamix_92, Briton15_95, Switzer_91
• Track 12 : Naira_96, Squee_92, Fenn_97

• Track 13 : Bones_86
• Track 14 : ShortQueendom_82
• Track 15 : ChristmasHams_80, TwoPeat_88, Molly_89, PSullivan_87, KBG_87, JuliaChild_91, Tote_86, Doom_84, Pita2_91, Swole_91
• Track 16 : Raid_89, Lesedi_88
• Track 17 : Smairt_97, Mule_92, JackSparrow_92, Tasp14_87, Bexan_87, StrongArm_88, Trouble_90, PhrostyMug_94, Perseus_90, Beatrix_89
• Track 18 : Paphu_87
• Track 19 : BeesKnees_95, Jasper_93, McGuire_92, Dreamboat_93
• Track 20 : Gwendoluna_91, Gompeii16_90, Bircsak_90
• Track 21 : IgnatiusPatJac_87, Alsfro_94, BluSpix_85
• Track 22 : Scowl_90
• Track 23 : Parliament_90
• Track 24 : Ichabod_96, SarFire_98, BPBiebs31_97, Thor_98
• Track 25 : KyMonks1A_96, LunarLander_80, Licorice_91, Target_90
• Track 26 : Ringer_90
• Track 27 : Rhynn_85
• Track 28 : Watermelon_89
• Track 29 : Peterson_90
• Track 30 : Manatee_92, PascalRango_92
• Track 31 : Buttons_85
• Track 32 : Violet_87
• Track 33 : HanShotFirst_90
• Track 34 : Petruchio_88
• Track 35 : Pippin_93
• Track 36 : ProMouse_92
• Track 37 : Gyzlar_83
• Track 38 : Anglerfish_93
• Track 39 : Papez_93, Michley_91, Graduation_93
• Track 40 : QTRlifeCrisis_86
• Track 41 : Froghopper_79
• Track 42 : Magnito_91
• Track 43 : Smeagol_90
• Track 44 : Eaglepride_87
• Track 45 : Goose_85, Chupacabra_81, OKCentral2016_83
• Track 46 : KittenMittens_79, Severus_82, PeaceMeal1_81, Drake94_81
• Track 47 : WalterMcMickey_84
• Track 48 : Topanga_74
• Track 49 : Poompha_81
• Track 50 : Twister_85
• Track 51 : DontArgue_79
• Track 52 : Rebeuca_85, Kristoff_82
• Track 53 : Lucivia_90, Orange_89, Gilberta_87, Aneem_90, MaCh_89, Joselito_87, Et2Brutus_89, Timothy_89, Kimba_86, Bowtie_85, Fibonacci_89, Mabel_89, Mulciber_88, Salz_85, Munch_88, Sham4_86, Insomnia_89, Ebony_88, Hutc2_86, Petersenfast_85, TinyTimmy_87, Wolpertinger_88, Snape_89
• Track 54 : Bud_82
• Track 55 : Bachome_87, Saskia_87
• Track 56 : Jabith_89
• Track 57 : Flaverint_90
• Track 58 : Phlei_72
• Track 59 : SororFago_85
• Track 60 : Gail_88

• Track 61 : PainterBoy_85, Lucyedi_86, EagleEye_87
• Track 62 : 40AC_82
• Track 63 : Kimona_86
• Track 64 : Kerberos_86, Travvers_86, Pomar16_86, Tomathan_86, Duplo_87, VC3_84, StarStuff_86, ANI8_85, DBQu4n_86, AN9_85, C3_78
• Track 65 : Journey13_69
• Track 66 : Piro94_85, Drake55_87, HarryHoudini_86
• Track 67 : WeiHuaDA_88
• Track 68 : MissWhite_79
• Track 69 : Serenity_89, TipsytheTRex_85
• Track 70 : WideWale_87, Updawg_87, Sknot_86, Baehexic_85, MiculUcigas_86, Terrific_87, Centaur_86, NaSiaTalie_87, Flare16_86, Equemioh13_86, Gratitude_86
• Track 71 : Kalpine_88
• Track 72 : Malec_85
• Track 73 : Changeling_84
• Track 74 : Quokka_88, MajorMajor_83, Bradman_89
• Track 75 : GaugeLDP_80
• Track 76 : L5_79
• Track 77 : AnnaL29_88
• Track 78 : Larenn_85
• Track 79 : Jsquared_90
• Track 80 : Koduck_86
• Track 81 : Loser_89
• Track 82 : EZMoney23_83
• Track 83 : BabyBack_81
• Track 84 : Colin_86
• Track 85 : RedRock_86
• Track 86 : Kinmap_87
• Track 87 : Roimos_85, Goose1D_79, Kachowdy_88, Marchesa_86, Fred313_84, DropBear_87, HelDan_86, Heathen_86, Scout_86
• Track 88 : EtoileNova_83, Noella_87, Norbert_82, Hookmount_86, Caviar_75, Popcicle_86, ResDef_84, Panamaxus_82, Texage_84, Pocahontas_85
• Track 89 : Todacoro_86, Veracruz_83, QuinnKiro_85, Margo_86, Lambert1_86
• Track 90 : Zarafa_84
• Track 91 : Giroux_90, Bugatti_90, Pistachio_87, SaturnRing_88, TNguyen7_88, BlueBird_89, Puppy_88
• Track 92 : BabyJohn_69, Chiqui_69
• Track 93 : Isca_83
• Track 94 : BabyRay_87
• Track 95 : Clammy_89
• Track 96 : Rockstar_75, Phantastic_87
• Track 97 : Cat_74
• Track 98 : Wile_81, Wizard007_82, Druantia_84, Backyardigan_80, Achebe_81, Badger_81, Cici_82
• Track 99 : Perplexer_82, Bumblebee11_81, Katalie136_82, PetiteSangsue_82, Morpher26_82, AbbysRanger_82
• Track 100 : Kremtemulon_82
• Track 101 : Cintron_85
• Track 102 : DaVinci_85, McFly_87, Chartreuse_86, Cookiedough_87, Kazan_88, Zulu_90, Polyphemus_80, Hoot_82, Dorothea_87, Imbriano_88, Candra_88, Kipper29_87, VohminGhazi_87, SmellyB_87, BABullseye_80
• Track 103 : Yokurt_88, Zaka_89, Garak_90

• Track 104 : Rifter_89, Gruunaga_88, Artemis2UCLA_88, CloudWang3_89, Hexamo_88, Roksolana_89, Gladiator_85
• Track 105 : Neeharika16_86, Priamo_88, EricB_85, DelvinSonDorr_82, SuperCallie99_83
• Track 106 : ToneTone_86, Hammer_89, Lilbunny_88, BlessJoy_89, Tucker_89
• Track 107 : Koko_90, Helmet_91, Temprado_90, Blue7_90, Indra_92, Wiks_88, BennyP_89
• Track 108 : Pmask_86, SuperAwesome_87, Newrala_86, JewelBug_79
• Track 109 : Jordennis_85
• Track 110 : GreedyLawyer_80
• Track 111 : Blinn1_90
• Track 112 : Isiphiwo_83
• Track 113 : PP_04
• Track 114 : HINdeR_81
• Track 115 : FlyCatcher_86, Sheen_83, Toro_84
• Track 116 : Timshel_82
• Track 117 : JacoRen57_68
• Track 118 : Squint_233, Hughesyang_237, Dove_217, Yeet_229, EricMillard_232, Redno2_226, BronnyJames_226, Bombitas_219, Bagrid_240, Beem_238, Ejimix_226, Zelink_228, Phoebus_233, Shaboozey_232, Klein_242, Nekros_235, ThreeRngTarjay_234, JuicyJay_230, Hannaconda_225, Schatzie_227, Nibley_225, Odette_234
• Track 119 : Ariel_241, Courthouse_237, Superphikiman_233
• Track 120 : LittleE_224, Rearden_235
• Track 121 : HokkenD_227
• Track 122 : Duke13_235
• Track 123 : Marleymoo_215, Bobby_213, Constella_224, Xiaokay_220, Hidrated_218, Thibault_209
• Track 124 : Halley_237, Dallas_233, Minerva_233
• Track 125 : Gonephishing_231
• Track 126 : KashFlow_227
• Track 127 : Pound_223
• Track 128 : Kalah2_224
• Track 129 : NihilNomen_236
• Track 130 : Omega_235
• Track 131 : MiaZeal_245, Lucky2013_232, Porcelain_236, Wanda_234
• Track 132 : DmpstrDiver_233

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

The start number called the most often in the published annotations is 68, it was called in 141 of the 450 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AFIS_88, Abbyshoes_89, Acme_91, Adahisdi_85, Agaliana_87, Ajay_84, Aldrich_83, Altman_94, Alvin_86, Anglerfish_93, Arcanine_94, Arlo_96, Atkinbua_98, BeesKnees_95, Bethlehem_87, BigPaolini_85, Bigchungi_86, Bigfoot_86, BillKnuckles_86, Blackflame_88, Blesser_85, Bruns_96, Burton_90, Buttons_85, Bxb1_84, CactusRose_96, Carlyle_91, CartmannCramer_82, CatBus_81, Chanagan_91, ChristmasHams_80, Ciao_94, ConceptII_97, Corvo_94,

Crispicous1_86, Dexes_93, DirtDevil_83, Doom_84, DrFeelGood_85, DreamCatcher_102, Dreamboat_93, Dussy_87, Espresso_87, Euphoria_95, Eyeball_94, Fajezeel_90, Fascinus_86, Fenn_97, Forsytheast_96, Francis47_93, Froghopper_79, Fushigi_84, GageAP_90, GrecoEtereo_92, Greg_90, GroundGoblin_83, Gyzlar_83, Hermia_84, Homines_83, Hope4ever_88, ILeeKay_91, Inyanga_82, Iqorha_82, Jasper_93, JuliaChild_91, KBG_87, KSSJEB_91, Kanely_93, Kenmech_93, KikiBouba_87, Kugel_94, KyMonks1A_96, Kykar_88, Levia_85, Licorice_91, LilBib_80, Lopton_88, LunarLander_80, Magnar_91, Magnito_91, Manatee_92, Marcell_83, Marchy_81, Maroc7_92, MaryBeth_91, McGuire_92, McSinger_84, MetalQZJ_88, Mkhuseli_91, Molly_89, Monet_92, Moose_95, MrGordo_92, Mryolo_84, Museum_90, NEHalo_88, Naira_96, Niza_89, Norz_90, Noxious_89, Ohno789_95, Oogway_87, PSullivan_87, PacerPaul_93, Paphu_87, PascalRango_92, PattyP_92, Payneful_77, Pelly_94, Pepe_86, Petp2012_89, Petruchio_88, PhineBark_85, Pinto_87, Pita2_91, PowerRanger_85, Puppet_90, QTRlifeCrisis_86, Rajelicia_89, Rhynn_85, Ringer_90, Rubeus_88, Rufus_93, Ruotula_94, STLscum_100, Sandaddy_90, Sanya_85, Scowl_90, Seabiscuit_95, Seanderson_89, ShortQueendom_82, Sibs6_95, Slagathor_92, Snazzy_92, Sorpresa_93, SpikeBT_87, Squee_92, SwissCheese_95, Swole_91, Target_90, Teodoridan_93, TheloniousMonk_90, Tote_86, Traft412_86, Treddle_90, Tripl3t_91, Turj99_86, TwoPeat_88, Violet_87, Watermelon_89, Wheeler_96, Whitspit_82, Zephyr_92,

Genes that have the "Most Annotated" start but do not call it:
• BPBiebs31_97, Bircsak_90, Briton15_95, Dynamix_92, Gompeii16_90, Graduation_93, Gwendoluna_91, HanShotFirst_90, Ichabod_96, Michley_91, Papez_93, SarFire_98, Switzer_91, Thor_98,

Genes that do not have the "Most Annotated" start:
• 40AC_82, A6_85, AN9_85, ANI8_85, AbbysRanger_82, Abrogate_880, Achebe_81, Aeneas_96, Alsfro_94, Aneem_90, AnnaL29_88, Applejack_88, Ariel_241, Artemis2UCLA_88, Ashballer_91, BABullseye_80, BK1_85, BabyBack_81, BabyJohn_69, BabyRay_87, Bachome_87, Backyardigan_80, BaconJack_94, Badger_81, Baehexic_85, Bagrid_240, Barriga_101, Beatrix_89, Beem_238, BennyP_89, Bexan_87, Big3_91, BigMau_91, BlessJoy_89, Blinn1_90, BluSpix_85, Blue7_90, BlueBird_89, Bob3_90, Bobby_213, Bombitas_219, Bones_86, Bowtie_85, Bradman_89, BronnyJames_226, Bud_82, Bugatti_90, Bumblebee11_81, C3_78, Candra_88, Cat_74, Caviar_75, Centaur_86, Changeling_84, Chartreuse_86, Chiqui_69, Chupacabra_81, Cici_82, Cintron_85, Clammy_89, CloudWang3_89, Colin_86, Constella_224, Cookiedough_87, Courthouse_237, DBQu4n_86, DaVinci_85, Dallas_233, DelvinSonDorr_82, DmpstrDiver_233, DontArgue_79, Dorothea_87, Dove_217, Drake55_87, Drake94_81, DropBear_87, Druantia_84, Duke13_235, Duplo_87, EZMoney23_83, EagleEye_87, Eaglepride_87, Ebony_88, Edtherson_87, Ejimix_226, EnzoK_94, Equemioh13_86, EricB_85, EricMillard_232, Et2Brutus_89, EtoileNova_83, Fibonacci_89, Flare16_86, Flaverint_90, FlyCatcher_86, Fred313_84, Gachnar_77, Gail_88, Gandalf20_90, Garak_90, GaugeLDP_80, Gilberta_87, Giroux_90, Gladiator_85, Gonephishing_231, Goose1D_79, Goose_85, Gratitude_86, GreedyLawyer_80, Gruunaga_88, HINdeR_81, Halley_237, Hami1_87, Hammer_89, Hannaconda_225, HarryHoudini_86, HarryOW_91, Heathen_86, HelDan_86, Helmet_91, HermioneGrange_94, Hexamo_88, Hidrated_218, HokkenD_227, Hookmount_86, Hoot_82, Hughesyang_237, Hutc2_86, IgnatiusPatJac_87, Imbriano_88, Indra_92, Insomnia_89, Isca_83, Isiphiwo_83, JC27_94, Jabith_89, JackSparrow_92, JacoRen57_68, Jerm2_90, JewelBug_79, Jordennis_85, Jorgensen_100,

Joselito_87, Journey13_69, Jsquared_90, JuicyJay_230, Kachowdy_88, Kalah2_224, Kalpine_88, KashFlow_227, Katalie136_82, Kazan_88, Kerberos_86, Killigrew_87, Kimba_86, Kimona_86, Kinmap_87, Kipper29_87, KittenMittens_79, Klein_242, Koduck_86, Koko_90, Kremtemulon_82, Kristoff_82, L5_79, Lambert1_86, Lamina13_93, Larenn_85, Lesedi_88, Lilbunny_88, LittleE_224, Loser_89, Lucivia_90, Lucky2013_232, Lucyedi_86, MPlant7149_90, MaCh_89, Mabel_89, MajorMajor_83, Malec_85, Marchesa_86, Marco3_91, Marge_87, Margo_86, Marleymoo_215, Marsha_93, McFly_87, MiaZeal_245, MiculUcigas_86, MilleFeuille_94, Minerva_233, MissWhite_79, Morpher26_82, Mulciber_88, Mule_92, Munch_88, NaSiaTalie_87, Neeharika16_86, Nekros_235, Nerujay_93, Newrala_86, Nhonho_87, Nibley_225, NihilNomen_236, Noella_87, Norbert_82, OKCentral2016_83, Odette_234, Omega_235, Orange_89, PP_04, PainterBoy_85, Panamaxus_82, Paraselene_87, Pari_92, Parliament_90, PeaceMeal1_81, Perplexer_82, Perseus_90, Petersenfast_85, Peterson_90, PetiteSangsue_82, Phantastic_87, PherrisBueller_88, Phlei_72, Phlippers_89, Phoebus_233, PhrostyMug_94, Pippin_93, Piro94_85, Pistachio_87, Pmask_86, Pocahontas_85, Polyphemus_80, Pomar16_86, Poompha_81, Popcicle_86, Porcelain_236, Pound_223, Priamo_88, ProMouse_92, Puppy_88, QuinnKiro_85, Quokka_88, Raid_89, Rearden_235, Rebeuca_85, RedRock_86, Redno2_226, ResDef_84, RidgeCB_89, Rifter_89, Rockstar_75, Rohr_92, Roimos_85, Roksolana_89, Rutherferd_91, Sagefire_86, Salz_85, Saskia_87, SaturnRing_88, Schatzie_227, Scout_86, Serenity_89, Severus_82, Shaboozey_232, Sham4_86, Sheen_83, SkiPole_98, Sknot_86, Smairt_97, Smeagol_90, SmellyB_87, Snape_89, Solon_83, SororFago_85, Squint_233, StarStuff_86, StewieG_85, StrongArm_88, Sumter_87, Sunshine924_93, SuperAwesome_87, SuperCallie99_83, Superphikiman_233, TNguyen7_88, Tasp14_87, Temprado_90, Terrific_87, Texage_84, Thibault_209, ThreeRngTarjay_234, Timothy_89, Timshel_82, TinyTimmy_87, TipsytheTRex_85, Todacoro_86, Tomathan_86, ToneTone_86, Topanga_74, Topgun_89, Toro_84, Travvers_86, Trouble_90, Tucker_89, Twister_85, Updawg_87, VC3_84, Veracruz_83, VohminGhazi_87, WalterMcMickey_84, Wanda_234, WeiHuaDA_88, WideWale_87, Wiks_88, Wile_81, Wilkins_90, Wizard007_82, Wolpertinger_88, Xiaokay_220, Yeet_229, Yokurt_88, Zaka_89, Zarafa_84, Zeeculate_91, Zelink_228, Zulu_90,

Summary by start number:

Start 37:
• Found in 3 of 494 (0.6%) of genes in pham
• Manual Annotations of this start: 3 of 450
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bircsak_90 (A1), Gompeii16_90 (A1), Gwendoluna_91 (A1),

Start 43:
• Found in 1 of 494 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 450
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Blinn1_90 (A6),

Start 44:
• Found in 1 of 494 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present

• Phage (with cluster) where this start called: DontArgue_79 (A10),

Start 45:
• Found in 16 of 494 (3.2%) of genes in pham
• Manual Annotations of this start: 12 of 450
• Called 75.0% of time when present
• Phage (with cluster) where this start called: BPBiebs31_97 (A1), Briton15_95 (A1), Dynamix_92 (A1), Eaglepride_87 (A10), Ichabod_96 (A1), Kristoff_82 (A10), Rebeuca_85 (A10), SarFire_98 (A1), Switzer_91 (A1), Thor_98 (A1), Topanga_74 (A10), WalterMcMickey_84 (A10),

Start 46:
• Found in 3 of 494 (0.6%) of genes in pham
• Manual Annotations of this start: 3 of 450
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Graduation_93 (A1), Michley_91 (A1), Papez_93 (A1),

Start 49:
• Found in 2 of 494 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 450
• Called 100.0% of time when present
• Phage (with cluster) where this start called: HINdeR_81 (A7), Timshel_82 (A7),

Start 51:
• Found in 6 of 494 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 450
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Twister_85 (A10),

Start 53:
• Found in 2 of 494 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 450
• Called 50.0% of time when present
• Phage (with cluster) where this start called: PP_04 (A7),

Start 54:
• Found in 50 of 494 (10.1%) of genes in pham
• Manual Annotations of this start: 32 of 450
• Called 64.0% of time when present
• Phage (with cluster) where this start called: BABullseye_80 (A6), BennyP_89 (A6), Blue7_90 (A6), Candra_88 (A6), Chartreuse_86 (A6), Clammy_89 (A3), Cookiedough_87 (A6), DaVinci_85 (A6), Dorothea_87 (A6), EagleEye_87 (A16), Helmet_91 (A6), Hoot_82 (A6), Imbriano_88 (A6), Indra_92 (A6), Isiphiwo_83 (A6), JewelBug_79 (A6), Jordennis_85 (A6), Kazan_88 (A6), Kipper29_87 (A6), Koko_90 (A6), Lucyedi_86 (A16), McFly_87 (A6), Newrala_86 (A6), PainterBoy_85 (A16), Pmask_86 (A6), Polyphemus_80 (A6), SmellyB_87 (A6), SuperAwesome_87 (A6), Temprado_90 (A6), VohminGhazi_87 (A6), Wiks_88 (A6), Zulu_90 (A6),

Start 56:
• Found in 39 of 494 (7.9%) of genes in pham
• Manual Annotations of this start: 4 of 450
• Called 10.3% of time when present

• Phage (with cluster) where this start called: AnnaL29_88 (A2), JacoRen57_68 (AB), Jsquared_90 (A2), L5_79 (A2),

Start 58:
• Found in 3 of 494 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 450
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BabyRay_87 (A3), Cat_74 (A3), Phlei_72 (A13),

Start 59:
• Found in 31 of 494 (6.3%) of genes in pham
• Manual Annotations of this start: 1 of 450
• Called 3.2% of time when present
• Phage (with cluster) where this start called: Pound_223 (J),

Start 60:
• Found in 36 of 494 (7.3%) of genes in pham
• Manual Annotations of this start: 23 of 450
• Called 75.0% of time when present
• Phage (with cluster) where this start called: AN9_85 (A2), ANI8_85 (A2), Achebe_81 (A4), Backyardigan_80 (A4), Badger_81 (A4), Bradman_89 (A2), C3_78 (A2), Changeling_84 (A2), Cici_82 (A4), DBQu4n_86 (A2), Druantia_84 (A4), Duplo_87 (A2), Kerberos_86 (A2), Koduck_86 (A2), Loser_89 (A2), MajorMajor_83 (A2), Pomar16_86 (A2), Quokka_88 (A2), RedRock_86 (A2), Serenity_89 (A2), StarStuff_86 (A2), TipsytheTRex_85 (A2), Tomathan_86 (A2), Travvers_86 (A2), VC3_84 (A2), Wile_81 (A4), Wizard007_82 (A4),

Start 61:
• Found in 90 of 494 (18.2%) of genes in pham
• Manual Annotations of this start: 51 of 450
• Called 60.0% of time when present
• Phage (with cluster) where this start called: 40AC_82 (A17), Artemis2UCLA_88 (A6), BabyBack_81 (A2), Bachome_87 (A11), Baehexic_85 (A2), BlessJoy_89 (A6), Centaur_86 (A2), CloudWang3_89 (A6), Colin_86 (A2), DelvinSonDorr_82 (A6), Drake55_87 (A2), EZMoney23_83 (A2), Equemioh13_86 (A2), EricB_85 (A6), Flare16_86 (A2), Gail_88 (A14), Garak_90 (A6), GaugeLDP_80 (A2), Gladiator_85 (A6), Gratitude_86 (A2), GreedyLawyer_80 (A6), Gruunaga_88 (A6), Hammer_89 (A6), HarryHoudini_86 (A2), Hexamo_88 (A6), HokkenD_227 (J), Journey13_69 (A2), Kalah2_224 (J), Kalpine_88 (A2), Larenn_85 (A2), Lilbunny_88 (A6), Malec_85 (A2), MiculUcigas_86 (A2), MissWhite_79 (A2), NaSiaTalie_87 (A2), Neeharika16_86 (A6), NihilNomen_236 (J), Omega_235 (J), Piro94_85 (A2), Priamo_88 (A6), Rifter_89 (A6), Roksolana_89 (A6), Saskia_87 (A11), Sknot_86 (A2), SororFago_85 (A14), SuperCallie99_83 (A6), Terrific_87 (A2), ToneTone_86 (A6), Tucker_89 (A6), Updawg_87 (A2), WeiHuaDA_88 (A2), WideWale_87 (A2), Yokurt_88 (A6), Zaka_89 (A6),

Start 62:
• Found in 3 of 494 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 450
• Called 33.3% of time when present
• Phage (with cluster) where this start called: HanShotFirst_90 (A1),

Start 63:
• Found in 26 of 494 (5.3%) of genes in pham
• Manual Annotations of this start: 26 of 450
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aneem_90 (A11), Bowtie_85 (A11), Bud_82 (A11), Ebony_88 (A11), Et2Brutus_89 (A11), Fibonacci_89 (A11), Flaverint_90 (A11), Gilberta_87 (A11), Hutc2_86 (A11), Insomnia_89 (A11), Jabith_89 (A11), Joselito_87 (A11), Kimba_86 (A11), Lucivia_90 (A11), MaCh_89 (A11), Mabel_89 (A11), Mulciber_88 (A11), Munch_88 (A11), Orange_89 (A11), Petersenfast_85 (A11), Salz_85 (A11), Sham4_86 (A11), Snape_89 (A11), Timothy_89 (A11), TinyTimmy_87 (A11), Wolpertinger_88 (A11),

Start 64:
• Found in 46 of 494 (9.3%) of genes in pham
• Manual Annotations of this start: 37 of 450
• Called 97.8% of time when present
• Phage (with cluster) where this start called: BabyJohn_69 (A3), BlueBird_89 (A3), Bugatti_90 (A3), Caviar_75 (A3), Chiqui_69 (A3), Chupacabra_81 (A10), Drake94_81 (A10), DropBear_87 (A3), EtoileNova_83 (A3), Fred313_84 (A3), Giroux_90 (A3), Goose1D_79 (A3), Goose_85 (A10), Heathen_86 (A3), HelDan_86 (A3), Hookmount_86 (A3), Isca_83 (A3), Kachowdy_88 (A3), KittenMittens_79 (A10), Lambert1_86 (A3), Marchesa_86 (A3), Margo_86 (A3), Noella_87 (A3), Norbert_82 (A3), OKCentral2016_83 (A10), Panamaxus_82 (A3), PeaceMeal1_81 (A10), Phantastic_87 (A3), Pistachio_87 (A3), Pocahontas_85 (A3), Poompha_81 (A10), Popcicle_86 (A3), Puppy_88 (A3), QuinnKiro_85 (A3), ResDef_84 (A3), Rockstar_75 (A3), Roimos_85 (A3), SaturnRing_88 (A3), Scout_86 (A3), Severus_82 (A10), TNguyen7_88 (A3), Texage_84 (A3), Todacoro_86 (A3), Veracruz_83 (A3), Zarafa_84 (A3),

Start 67:
• Found in 118 of 494 (23.9%) of genes in pham
• Manual Annotations of this start: 99 of 450
• Called 94.1% of time when present
• Phage (with cluster) where this start called: A6_85 (A1), Abrogate_880 (A1), Aeneas_96 (A1), Alsfro_94 (A1), Applejack_88 (A1), Ariel_241 (J), Ashballer_91 (A1), BK1_85 (A1), BaconJack_94 (A1), Bagrid_240 (J), Barriga_101 (A1), Beatrix_89 (A1), Beem_238 (J), Bexan_87 (A1), Big3_91 (A1), BigMau_91 (A1), BluSpix_85 (A1), Bob3_90 (A1), Bobby_213 (J), Bombitas_219 (J), Bones_86 (A1), BronnyJames_226 (J), Constella_224 (J), Courthouse_237 (J), Dallas_233 (J), DmpstrDiver_233 (J), Dove_217 (J), Duke13_235 (J), Edtherson_87 (A1), Ejimix_226 (J), EnzoK_94 (A1), EricMillard_232 (J), Gachnar_77 (A1), Gandalf20_90 (A1), Gonephishing_231 (J), Halley_237 (J), Hami1_87 (A1), Hannaconda_225 (J), HarryOW_91 (A1), HermioneGrange_94 (A1), Hidrated_218 (J), Hughesyang_237 (J), IgnatiusPatJac_87 (A1), JC27_94 (A1), JackSparrow_92 (A1), Jerm2_90 (A1), Jorgensen_100 (A1), JuicyJay_230 (J), KashFlow_227 (J), Killigrew_87 (A1), Klein_242 (J), Lamina13_93 (A1), Lesedi_88 (A1), LittleE_224 (J), Lucky2013_232 (J), MPlant7149_90 (A1), Marco3_91 (A1), Marge_87 (A1), Marleymoo_215 (J), Marsha_93 (A1), MiaZeal_245 (J), MilleFeuille_94 (A1), Minerva_233 (J), Mule_92 (A1), Nekros_235 (J), Nerujay_93 (A1), Nhonho_87 (A1), Nibley_225 (J), Odette_234 (J), Paraselene_87 (A1), Pari_92 (A1), Parliament_90 (A1), Perseus_90 (A1), Peterson_90 (A1), PherrisBueller_88 (A1), Phlippers_89 (A1), Phoebus_233 (J), PhrostyMug_94 (A1), Pippin_93 (A1), Porcelain_236 (J), ProMouse_92 (A1), Raid_89 (A1), Rearden_235 (J), Redno2_226 (J), RidgeCB_89 (A1), Rohr_92 (A1),

Rutherferd_91 (A1), Sagefire_86 (A1), Schatzie_227 (J), Shaboozey_232 (J), SkiPole_98 (A1), Smairt_97 (A1), Smeagol_90 (A1), Solon_83 (A1), Squint_233 (J), StewieG_85 (A1), StrongArm_88 (A1), Sumter_87 (A1), Sunshine924_93 (A1), Superphikiman_233 (J), Tasp14_87 (A1), Thibault_209 (J), ThreeRngTarjay_234 (J), Topgun_89 (A1), Trouble_90 (A1), Wanda_234 (J), Wilkins_90 (A1), Xiaokay_220 (J), Yeet_229 (J), Zeeculate_91 (A1), Zelink_228 (J),

Start 68:
• Found in 167 of 494 (33.8%) of genes in pham
• Manual Annotations of this start: 141 of 450
• Called 91.6% of time when present
• Phage (with cluster) where this start called: AFIS_88 (A1), Abbyshoes_89 (A1), Acme_91 (A1), Adahisdi_85 (A1), Agaliana_87 (A1), Ajay_84 (A1), Aldrich_83 (A1), Altman_94 (A1), Alvin_86 (A1), Anglerfish_93 (A1), Arcanine_94 (A1), Arlo_96 (A1), Atkinbua_98 (A1), BeesKnees_95 (A1), Bethlehem_87 (A1), BigPaolini_85 (A1), Bigchungi_86 (A1), Bigfoot_86 (A1), BillKnuckles_86 (A1), Blackflame_88 (A1), Blesser_85 (A1), Bruns_96 (A1), Burton_90 (A1), Buttons_85 (A1), Bxb1_84 (A1), CactusRose_96 (A1), Carlyle_91 (A1), CartmannCramer_82 (A1), CatBus_81 (A1), Chanagan_91 (A1), ChristmasHams_80 (A1), Ciao_94 (A1), ConceptII_97 (A1), Corvo_94 (A1), Crispicous1_86 (A1), Dexes_93 (A1), DirtDevil_83 (A1), Doom_84 (A1), DrFeelGood_85 (A1), DreamCatcher_102 (A1), Dreamboat_93 (A1), Dussy_87 (A1), Espresso_87 (A1), Euphoria_95 (A1), Eyeball_94 (A1), Fajezeel_90 (A1), Fascinus_86 (A1), Fenn_97 (A1), Forsytheast_96 (A1), Francis47_93 (A1), Froghopper_79 (A1), Fushigi_84 (A1), GageAP_90 (A1), GrecoEtereo_92 (A1), Greg_90 (A1), GroundGoblin_83 (A1), Gyzlar_83 (A1), Hermia_84 (A1), Homines_83 (A1), Hope4ever_88 (A1), ILeeKay_91 (A1), Inyanga_82 (A1), Iqorha_82 (A1), Jasper_93 (A1), JuliaChild_91 (A1), KBG_87 (A1), KSSJEB_91 (A1), Kanely_93 (A1), Kenmech_93 (A1), KikiBouba_87 (A1), Kugel_94 (A1), KyMonks1A_96 (A1), Kykar_88 (A1), Levia_85 (A1), Licorice_91 (A1), LilBib_80 (A1), Lopton_88 (A1), LunarLander_80 (A1), Magnar_91 (A1), Magnito_91 (A1), Manatee_92 (A1), Marcell_83 (A1), Marchy_81 (A1), Maroc7_92 (A1), MaryBeth_91 (A1), McGuire_92 (A1), McSinger_84 (A1), MetalQZJ_88 (A1), Mkhuseli_91 (A1), Molly_89 (A1), Monet_92 (A1), Moose_95 (A1), MrGordo_92 (A1), Mryolo_84 (A1), Museum_90 (A1), NEHalo_88 (A1), Naira_96 (A1), Niza_89 (A1), Norz_90 (A1), Noxious_89 (A1), Ohno789_95 (A1), Oogway_87 (A1), PSullivan_87 (A1), PacerPaul_93 (A1), Paphu_87 (A1), PascalRango_92 (A1), PattyP_92 (A1), Payneful_77 (A1), Pelly_94 (A1), Pepe_86 (A1), Petp2012_89 (A1), Petruchio_88 (A1), PhineBark_85 (A1), Pinto_87 (A1), Pita2_91 (A1), PowerRanger_85 (A1), Puppet_90 (A1), QTRlifeCrisis_86 (A1), Rajelicia_89 (A1), Rhynn_85 (A1), Ringer_90 (A1), Rubeus_88 (A1), Rufus_93 (A1), Ruotula_94 (A1), STLscum_100 (A1), Sandaddy_90 (A1), Sanya_85 (A1), Scowl_90 (A1), Seabiscuit_95 (A1), Seanderson_89 (A1), ShortQueendom_82 (A1), Sibs6_95 (A1), Slagathor_92 (A1), Snazzy_92 (A1), Sorpresa_93 (A1), SpikeBT_87 (A1), Squee_92 (A1), SwissCheese_95 (A1), Swole_91 (A1), Target_90 (A1), Teodoridan_93 (A1), TheloniousMonk_90 (A1), Tote_86 (A1), Traft412_86 (A1), Treddle_90 (A1), Tripl3t_91 (A1), Turj99_86 (A1), TwoPeat_88 (A1), Violet_87 (A1), Watermelon_89 (A1), Wheeler_96 (A1), Whitspit_82 (A1), Zephyr_92 (A1),

Start 69:
• Found in 1 of 494 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 450
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kinmap_87 (A21),

Start 71:
• Found in 6 of 494 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 450
• Called 66.7% of time when present
• Phage (with cluster) where this start called: FlyCatcher_86 (A7), Kimona_86 (A19), Sheen_83 (A7), Toro_84 (A7),

Start 74:
• Found in 16 of 494 (3.2%) of genes in pham
• Manual Annotations of this start: 8 of 450
• Called 50.0% of time when present
• Phage (with cluster) where this start called: AbbysRanger_82 (A4), Bumblebee11_81 (A4), Cintron_85 (A4), Katalie136_82 (A4), Kremtemulon_82 (A4), Morpher26_82 (A4), Perplexer_82 (A4), PetiteSangsue_82 (A4),

Summary by clusters:

There are 16 clusters represented in this pham: A14, A17, A16, A11, A10, A13, A21, J, A19, A1, A3, A2, A4, A7, A6, AB,

Info for manual annotations of cluster A1:
•Start number 37 was manually annotated 3 times for cluster A1.
•Start number 45 was manually annotated 7 times for cluster A1.
•Start number 46 was manually annotated 3 times for cluster A1.
•Start number 62 was manually annotated 1 time for cluster A1.
•Start number 67 was manually annotated 65 times for cluster A1.
•Start number 68 was manually annotated 141 times for cluster A1.

Info for manual annotations of cluster A10:
•Start number 45 was manually annotated 5 times for cluster A10.
•Start number 51 was manually annotated 1 time for cluster A10.
•Start number 64 was manually annotated 8 times for cluster A10.

Info for manual annotations of cluster A11:
•Start number 61 was manually annotated 2 times for cluster A11.
•Start number 63 was manually annotated 26 times for cluster A11.

Info for manual annotations of cluster A14:
•Start number 61 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A16:
•Start number 54 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A19:
•Start number 71 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 56 was manually annotated 3 times for cluster A2.
•Start number 60 was manually annotated 16 times for cluster A2.
•Start number 61 was manually annotated 24 times for cluster A2.

Info for manual annotations of cluster A21:
•Start number 69 was manually annotated 1 time for cluster A21.

Info for manual annotations of cluster A3:
•Start number 54 was manually annotated 1 time for cluster A3.
•Start number 58 was manually annotated 1 time for cluster A3.
•Start number 64 was manually annotated 29 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 60 was manually annotated 7 times for cluster A4.
•Start number 74 was manually annotated 8 times for cluster A4.

Info for manual annotations of cluster A6:
•Start number 43 was manually annotated 1 time for cluster A6.
•Start number 54 was manually annotated 28 times for cluster A6.
•Start number 61 was manually annotated 19 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 49 was manually annotated 2 times for cluster A7.
•Start number 53 was manually annotated 1 time for cluster A7.
•Start number 71 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster AB:
•Start number 56 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster J:
•Start number 59 was manually annotated 1 time for cluster J.
•Start number 61 was manually annotated 4 times for cluster J.
•Start number 67 was manually annotated 34 times for cluster J.

Gene Information:

Gene: 40AC_82 Start: 48479, Stop: 48276, Start Num: 61
Candidate Starts for 40AC_82:
(Start: 61 @48479 has 51 MA's), (81, 48428), (96, 48344),

Gene: A6_85 Start: 49336, Stop: 49130, Start Num: 67
Candidate Starts for A6_85:
(Start: 67 @49336 has 99 MA's), (95, 49198),

Gene: AFIS_88 Start: 51338, Stop: 51135, Start Num: 68
Candidate Starts for AFIS_88:
(Start: 68 @51338 has 141 MA's), (95, 51203),

Gene: AN9_85 Start: 47253, Stop: 47056, Start Num: 60
Candidate Starts for AN9_85:
(Start: 60 @47253 has 23 MA's), (77, 47199), (96, 47121),

Gene: ANI8_85 Start: 47253, Stop: 47056, Start Num: 60
Candidate Starts for ANI8_85:

(Start: 60 @47253 has 23 MA's), (77, 47199), (96, 47121),

Gene: AbbysRanger_82 Start: 48599, Stop: 48441, Start Num: 74
Candidate Starts for AbbysRanger_82:
(Start: 60 @48638 has 23 MA's), (Start: 74 @48599 has 8 MA's), (77, 48590), (96, 48503), (98, 48470),

Gene: Abbyshoes_89 Start: 50942, Stop: 50739, Start Num: 68
Candidate Starts for Abbyshoes_89:
(Start: 68 @50942 has 141 MA's), (95, 50807),

Gene: Abrogate_880 Start: 50891, Stop: 51097, Start Num: 67
Candidate Starts for Abrogate_880:
(Start: 67 @50891 has 99 MA's), (95, 51029), (102, 51089),

Gene: Achebe_81 Start: 48782, Stop: 48585, Start Num: 60
Candidate Starts for Achebe_81:
(Start: 60 @48782 has 23 MA's), (Start: 74 @48743 has 8 MA's), (77, 48734), (96, 48647), (98, 48614),

Gene: Acme_91 Start: 51412, Stop: 51209, Start Num: 68
Candidate Starts for Acme_91:
(Start: 68 @51412 has 141 MA's), (95, 51277),

Gene: Adahisdi_85 Start: 51316, Stop: 51113, Start Num: 68
Candidate Starts for Adahisdi_85:
(Start: 68 @51316 has 141 MA's), (95, 51181),

Gene: Aeneas_96 Start: 52191, Stop: 52397, Start Num: 67
Candidate Starts for Aeneas_96:
(Start: 67 @52191 has 99 MA's), (95, 52329),

Gene: Agaliana_87 Start: 49294, Stop: 49091, Start Num: 68
Candidate Starts for Agaliana_87:
(Start: 68 @49294 has 141 MA's),

Gene: Ajay_84 Start: 49128, Stop: 48925, Start Num: 68
Candidate Starts for Ajay_84:
(Start: 68 @49128 has 141 MA's), (95, 48993),

Gene: Aldrich_83 Start: 49082, Stop: 48879, Start Num: 68
Candidate Starts for Aldrich_83:
(Start: 68 @49082 has 141 MA's), (95, 48947),

Gene: Alsfro_94 Start: 49646, Stop: 49846, Start Num: 67
Candidate Starts for Alsfro_94:
(Start: 67 @49646 has 99 MA's), (95, 49778),

Gene: Altman_94 Start: 52124, Stop: 51921, Start Num: 68
Candidate Starts for Altman_94:
(Start: 68 @52124 has 141 MA's), (95, 51989),

Gene: Alvin_86 Start: 49180, Stop: 48977, Start Num: 68
Candidate Starts for Alvin_86:
(Start: 68 @49180 has 141 MA's), (95, 49045),

Gene: Aneem_90 Start: 48299, Stop: 48102, Start Num: 63
Candidate Starts for Aneem_90:
(Start: 63 @48299 has 26 MA's), (96, 48170), (102, 48113),

Gene: Anglerfish_93 Start: 51993, Stop: 51790, Start Num: 68
Candidate Starts for Anglerfish_93:
(Start: 68 @51993 has 141 MA's), (95, 51858), (98, 51822),

Gene: AnnaL29_88 Start: 49242, Stop: 49006, Start Num: 56
Candidate Starts for AnnaL29_88:
(21, 49371), (Start: 56 @49242 has 4 MA's), (Start: 60 @49227 has 23 MA's), (96, 49074), (98, 49041),

Gene: Applejack_88 Start: 48130, Stop: 48336, Start Num: 67
Candidate Starts for Applejack_88:
(Start: 67 @48130 has 99 MA's), (95, 48268), (102, 48328),

Gene: Arcanine_94 Start: 51887, Stop: 51687, Start Num: 68
Candidate Starts for Arcanine_94:
(Start: 68 @51887 has 141 MA's), (95, 51755),

Gene: Ariel_241 Start: 107734, Stop: 107546, Start Num: 67
Candidate Starts for Ariel_241:
(Start: 59 @107755 has 1 MA's), (Start: 67 @107734 has 99 MA's), (85, 107692), (94, 107653), (98, 107581), (102, 107557),

Gene: Arlo_96 Start: 52566, Stop: 52363, Start Num: 68
Candidate Starts for Arlo_96:
(Start: 68 @52566 has 141 MA's), (95, 52431),

Gene: Artemis2UCLA_88 Start: 46537, Stop: 46328, Start Num: 61
Candidate Starts for Artemis2UCLA_88:
(Start: 61 @46537 has 51 MA's), (86, 46477),

Gene: Ashballer_91 Start: 50593, Stop: 50799, Start Num: 67
Candidate Starts for Ashballer_91:
(Start: 67 @50593 has 99 MA's), (95, 50731), (102, 50791),

Gene: Atkinbua_98 Start: 52558, Stop: 52355, Start Num: 68
Candidate Starts for Atkinbua_98:
(Start: 68 @52558 has 141 MA's), (95, 52423),

Gene: BABullseye_80 Start: 44890, Stop: 44648, Start Num: 54
Candidate Starts for BABullseye_80:
(5, 45139), (16, 45055), (20, 45031), (Start: 54 @44890 has 32 MA's), (Start: 61 @44866 has 51 MA's), (93, 44770), (98, 44686),

Gene: BK1_85 Start: 49336, Stop: 49130, Start Num: 67
Candidate Starts for BK1_85:
(Start: 67 @49336 has 99 MA's), (95, 49198),

Gene: BPBiebs31_97 Start: 52824, Stop: 52570, Start Num: 45
Candidate Starts for BPBiebs31_97:

(Start: 45 @52824 has 12 MA's), (Start: 68 @52773 has 141 MA's), (95, 52638),

Gene: BabyBack_81 Start: 48271, Stop: 48068, Start Num: 61
Candidate Starts for BabyBack_81:
(29, 48391), (40, 48343), (Start: 61 @48271 has 51 MA's), (80, 48220), (96, 48136),

Gene: BabyJohn_69 Start: 44585, Stop: 44400, Start Num: 64
Candidate Starts for BabyJohn_69:
(Start: 54 @44612 has 32 MA's), (Start: 64 @44585 has 37 MA's), (86, 44522),

Gene: BabyRay_87 Start: 47952, Stop: 47743, Start Num: 58
Candidate Starts for BabyRay_87:
(Start: 58 @47952 has 1 MA's), (72, 47919), (82, 47889), (96, 47814), (98, 47781),

Gene: Bachome_87 Start: 47191, Stop: 46985, Start Num: 61
Candidate Starts for Bachome_87:
(Start: 56 @47206 has 4 MA's), (Start: 61 @47191 has 51 MA's), (81, 47137), (89, 47113), (96, 47053), (102, 46996),

Gene: Backyardigan_80 Start: 48654, Stop: 48457, Start Num: 60
Candidate Starts for Backyardigan_80:
(Start: 60 @48654 has 23 MA's), (Start: 74 @48615 has 8 MA's), (77, 48606), (96, 48519), (98, 48486),

Gene: BaconJack_94 Start: 52144, Stop: 52350, Start Num: 67
Candidate Starts for BaconJack_94:
(Start: 67 @52144 has 99 MA's), (95, 52282), (102, 52342),

Gene: Badger_81 Start: 48620, Stop: 48423, Start Num: 60
Candidate Starts for Badger_81:
(Start: 60 @48620 has 23 MA's), (Start: 74 @48581 has 8 MA's), (77, 48572), (96, 48485), (98, 48452),

Gene: Baehexic_85 Start: 48457, Stop: 48251, Start Num: 61
Candidate Starts for Baehexic_85:
(15, 48655), (Start: 56 @48472 has 4 MA's), (Start: 61 @48457 has 51 MA's), (81, 48403), (96, 48319),

Gene: Bagrid_240 Start: 111821, Stop: 111645, Start Num: 67
Candidate Starts for Bagrid_240:
(Start: 59 @111842 has 1 MA's), (Start: 67 @111821 has 99 MA's), (85, 111779), (94, 111752),

Gene: Barriga_101 Start: 51933, Stop: 52139, Start Num: 67
Candidate Starts for Barriga_101:
(Start: 67 @51933 has 99 MA's), (95, 52071),

Gene: Beatrix_89 Start: 50789, Stop: 50995, Start Num: 67
Candidate Starts for Beatrix_89:
(Start: 67 @50789 has 99 MA's), (95, 50927),

Gene: Beem_238 Start: 110940, Stop: 110764, Start Num: 67
Candidate Starts for Beem_238:
(Start: 59 @110961 has 1 MA's), (Start: 67 @110940 has 99 MA's), (85, 110898), (94, 110871),

Gene: BeesKnees_95 Start: 51081, Stop: 50878, Start Num: 68
Candidate Starts for BeesKnees_95:

(Start: 68 @51081 has 141 MA's), (95, 50946),

Gene: BennyP_89 Start: 46735, Stop: 46493, Start Num: 54
Candidate Starts for BennyP_89:
(5, 46984), (16, 46900), (20, 46876), (Start: 54 @46735 has 32 MA's), (Start: 61 @46711 has 51 MA's), (93, 46615),

Gene: Bethlehem_87 Start: 51847, Stop: 51644, Start Num: 68
Candidate Starts for Bethlehem_87:
(Start: 68 @51847 has 141 MA's), (95, 51712),

Gene: Bexan_87 Start: 50565, Stop: 50771, Start Num: 67
Candidate Starts for Bexan_87:
(Start: 67 @50565 has 99 MA's), (95, 50703),

Gene: Big3_91 Start: 53046, Stop: 52840, Start Num: 67
Candidate Starts for Big3_91:
(Start: 67 @53046 has 99 MA's),

Gene: BigMau_91 Start: 51153, Stop: 51362, Start Num: 67
Candidate Starts for BigMau_91:
(Start: 67 @51153 has 99 MA's), (95, 51291),

Gene: BigPaolini_85 Start: 49205, Stop: 49005, Start Num: 68
Candidate Starts for BigPaolini_85:
(Start: 68 @49205 has 141 MA's), (95, 49073),

Gene: Bigchungi_86 Start: 50716, Stop: 50513, Start Num: 68
Candidate Starts for Bigchungi_86:
(Start: 68 @50716 has 141 MA's), (95, 50581),

Gene: Bigfoot_86 Start: 51251, Stop: 51048, Start Num: 68
Candidate Starts for Bigfoot_86:
(Start: 68 @51251 has 141 MA's), (95, 51116),

Gene: BillKnuckles_86 Start: 51482, Stop: 51279, Start Num: 68
Candidate Starts for BillKnuckles_86:
(Start: 68 @51482 has 141 MA's), (95, 51347),

Gene: Bircsak_90 Start: 52909, Stop: 52619, Start Num: 37
Candidate Starts for Bircsak_90:
(18, 53011), (Start: 37 @52909 has 3 MA's), (Start: 68 @52822 has 141 MA's), (95, 52687),

Gene: Blackflame_88 Start: 52641, Stop: 52438, Start Num: 68
Candidate Starts for Blackflame_88:
(Start: 68 @52641 has 141 MA's), (95, 52506),

Gene: BlessJoy_89 Start: 47058, Stop: 46849, Start Num: 61
Candidate Starts for BlessJoy_89:
(Start: 61 @47058 has 51 MA's), (86, 46998), (95, 46923),

Gene: Blesser_85 Start: 49105, Stop: 48902, Start Num: 68
Candidate Starts for Blesser_85:

(Start: 68 @49105 has 141 MA's), (95, 48970),

Gene: Blinn1_90 Start: 47426, Stop: 47145, Start Num: 43
Candidate Starts for Blinn1_90:
(Start: 43 @47426 has 1 MA's), (57, 47381), (Start: 62 @47366 has 1 MA's), (65, 47360), (83, 47309), (95, 47219), (96, 47216),

Gene: BluSpix_85 Start: 44982, Stop: 45182, Start Num: 67
Candidate Starts for BluSpix_85:
(Start: 67 @44982 has 99 MA's), (95, 45114),

Gene: Blue7_90 Start: 46789, Stop: 46547, Start Num: 54
Candidate Starts for Blue7_90:
(5, 47038), (16, 46954), (20, 46930), (Start: 54 @46789 has 32 MA's), (Start: 61 @46765 has 51 MA's), (93, 46669),

Gene: BlueBird_89 Start: 48203, Stop: 47985, Start Num: 64
Candidate Starts for BlueBird_89:
(Start: 54 @48230 has 32 MA's), (Start: 64 @48203 has 37 MA's), (86, 48140), (91, 48122), (96, 48050),

Gene: Bob3_90 Start: 50587, Stop: 50793, Start Num: 67
Candidate Starts for Bob3_90:
(Start: 67 @50587 has 99 MA's), (95, 50725), (102, 50785),

Gene: Bobby_213 Start: 108407, Stop: 108219, Start Num: 67
Candidate Starts for Bobby_213:
(Start: 67 @108407 has 99 MA's), (75, 108383), (85, 108365), (94, 108326), (98, 108254), (102, 108230),

Gene: Bombitas_219 Start: 107223, Stop: 107050, Start Num: 67
Candidate Starts for Bombitas_219:
(Start: 59 @107244 has 1 MA's), (Start: 67 @107223 has 99 MA's), (85, 107181), (94, 107154),

Gene: Bones_86 Start: 51038, Stop: 51244, Start Num: 67
Candidate Starts for Bones_86:
(Start: 67 @51038 has 99 MA's), (95, 51176),

Gene: Bowtie_85 Start: 46906, Stop: 46709, Start Num: 63
Candidate Starts for Bowtie_85:
(Start: 63 @46906 has 26 MA's), (96, 46777), (102, 46720),

Gene: Bradman_89 Start: 47929, Stop: 47726, Start Num: 60
Candidate Starts for Bradman_89:
(Start: 56 @47944 has 4 MA's), (Start: 60 @47929 has 23 MA's), (77, 47875), (79, 47869), (96, 47791), (98, 47758),

Gene: Briton15_95 Start: 52689, Stop: 52435, Start Num: 45
Candidate Starts for Briton15_95:
(Start: 45 @52689 has 12 MA's), (Start: 68 @52638 has 141 MA's),

Gene: BronnyJames_226 Start: 105609, Stop: 105433, Start Num: 67
Candidate Starts for BronnyJames_226:

(Start: 59 @105630 has 1 MA's), (Start: 67 @105609 has 99 MA's), (85, 105567), (94, 105540),

Gene: Bruns_96 Start: 52614, Stop: 52411, Start Num: 68
Candidate Starts for Bruns_96:
(Start: 68 @52614 has 141 MA's), (95, 52479),

Gene: Bud_82 Start: 46736, Stop: 46539, Start Num: 63
Candidate Starts for Bud_82:
(4, 47042), (Start: 63 @46736 has 26 MA's), (96, 46607), (102, 46550),

Gene: Bugatti_90 Start: 48203, Stop: 47985, Start Num: 64
Candidate Starts for Bugatti_90:
(Start: 54 @48230 has 32 MA's), (Start: 64 @48203 has 37 MA's), (86, 48140), (91, 48122), (96, 48050),

Gene: Bumblebee11_81 Start: 48581, Stop: 48423, Start Num: 74
Candidate Starts for Bumblebee11_81:
(Start: 60 @48620 has 23 MA's), (Start: 74 @48581 has 8 MA's), (77, 48572), (96, 48485), (98, 48452),

Gene: Burton_90 Start: 52230, Stop: 52027, Start Num: 68
Candidate Starts for Burton_90:
(Start: 68 @52230 has 141 MA's), (95, 52095),

Gene: Buttons_85 Start: 48633, Stop: 48430, Start Num: 68
Candidate Starts for Buttons_85:
(Start: 68 @48633 has 141 MA's), (95, 48498), (102, 48438),

Gene: Bxb1_84 Start: 48903, Stop: 49112, Start Num: 68
Candidate Starts for Bxb1_84:
(Start: 68 @48903 has 141 MA's), (95, 49044), (102, 49104),

Gene: C3_78 Start: 47253, Stop: 47056, Start Num: 60
Candidate Starts for C3_78:
(Start: 60 @47253 has 23 MA's), (77, 47199), (96, 47121),

Gene: CactusRose_96 Start: 52264, Stop: 52061, Start Num: 68
Candidate Starts for CactusRose_96:
(Start: 68 @52264 has 141 MA's), (95, 52129),

Gene: Candra_88 Start: 46594, Stop: 46352, Start Num: 54
Candidate Starts for Candra_88:
(5, 46843), (16, 46759), (20, 46735), (Start: 54 @46594 has 32 MA's), (Start: 61 @46570 has 51 MA's), (93, 46474), (98, 46390),

Gene: Carlyle_91 Start: 50831, Stop: 50628, Start Num: 68
Candidate Starts for Carlyle_91:
(Start: 68 @50831 has 141 MA's), (95, 50696),

Gene: CartmannCramer_82 Start: 50392, Stop: 50189, Start Num: 68
Candidate Starts for CartmannCramer_82:
(Start: 68 @50392 has 141 MA's), (95, 50257),

Gene: CatBus_81 Start: 49274, Stop: 49071, Start Num: 68

Candidate Starts for CatBus_81:
(Start: 68 @49274 has 141 MA's), (95, 49139),

Gene: Cat_74 Start: 45683, Stop: 45474, Start Num: 58
Candidate Starts for Cat_74:
(50, 45701), (Start: 58 @45683 has 1 MA's), (72, 45650), (82, 45620), (96, 45545), (98, 45512),

Gene: Caviar_75 Start: 44830, Stop: 44630, Start Num: 64
Candidate Starts for Caviar_75:
(17, 45019), (Start: 64 @44830 has 37 MA's), (85, 44770), (96, 44704), (98, 44671),

Gene: Centaur_86 Start: 48324, Stop: 48118, Start Num: 61
Candidate Starts for Centaur_86:
(15, 48522), (Start: 56 @48339 has 4 MA's), (Start: 61 @48324 has 51 MA's), (81, 48270), (96, 48186),

Gene: Chanagan_91 Start: 50342, Stop: 50139, Start Num: 68
Candidate Starts for Chanagan_91:
(Start: 68 @50342 has 141 MA's), (95, 50207),

Gene: Changeling_84 Start: 49033, Stop: 48812, Start Num: 60
Candidate Starts for Changeling_84:
(23, 49165), (Start: 56 @49048 has 4 MA's), (Start: 60 @49033 has 23 MA's), (72, 49000), (73, 48997), (95, 48883), (98, 48847),

Gene: Chartreuse_86 Start: 45895, Stop: 45653, Start Num: 54
Candidate Starts for Chartreuse_86:
(5, 46144), (16, 46060), (20, 46036), (Start: 54 @45895 has 32 MA's), (Start: 61 @45871 has 51 MA's), (93, 45775), (98, 45691),

Gene: Chiqui_69 Start: 44594, Stop: 44409, Start Num: 64
Candidate Starts for Chiqui_69:
(Start: 54 @44621 has 32 MA's), (Start: 64 @44594 has 37 MA's), (86, 44531),

Gene: ChristmasHams_80 Start: 47861, Stop: 47658, Start Num: 68
Candidate Starts for ChristmasHams_80:
(24, 48008), (28, 47996), (31, 47972), (Start: 68 @47861 has 141 MA's), (95, 47726), (102, 47666),

Gene: Chupacabra_81 Start: 48564, Stop: 48376, Start Num: 64
Candidate Starts for Chupacabra_81:
(52, 48597), (Start: 64 @48564 has 37 MA's), (95, 48444), (96, 48441),

Gene: Ciao_94 Start: 50559, Stop: 50362, Start Num: 68
Candidate Starts for Ciao_94:
(Start: 68 @50559 has 141 MA's), (95, 50430),

Gene: Cici_82 Start: 48633, Stop: 48436, Start Num: 60
Candidate Starts for Cici_82:
(Start: 60 @48633 has 23 MA's), (Start: 74 @48594 has 8 MA's), (77, 48585), (96, 48498), (98, 48465),

Gene: Cintron_85 Start: 48872, Stop: 48702, Start Num: 74
Candidate Starts for Cintron_85:
(Start: 74 @48872 has 8 MA's), (77, 48863), (96, 48776), (98, 48743),

Gene: Clammy_89 Start: 48230, Stop: 47985, Start Num: 54
Candidate Starts for Clammy_89:
(Start: 54 @48230 has 32 MA's), (Start: 64 @48203 has 37 MA's), (86, 48140), (91, 48122), (96, 48050),

Gene: CloudWang3_89 Start: 47066, Stop: 46857, Start Num: 61
Candidate Starts for CloudWang3_89:
(Start: 61 @47066 has 51 MA's), (86, 47006),

Gene: Colin_86 Start: 49399, Stop: 49190, Start Num: 61
Candidate Starts for Colin_86:
(15, 49606), (21, 49546), (26, 49531), (Start: 56 @49414 has 4 MA's), (Start: 61 @49399 has 51 MA's), (72, 49375), (73, 49372), (96, 49258),

Gene: ConceptII_97 Start: 52890, Stop: 52687, Start Num: 68
Candidate Starts for ConceptII_97:
(Start: 68 @52890 has 141 MA's), (95, 52755),

Gene: Constella_224 Start: 108319, Stop: 108131, Start Num: 67
Candidate Starts for Constella_224:
(Start: 67 @108319 has 99 MA's), (75, 108295), (85, 108277), (94, 108238), (98, 108166), (102, 108142),

Gene: Cookiedough_87 Start: 47203, Stop: 46961, Start Num: 54
Candidate Starts for Cookiedough_87:
(5, 47452), (16, 47368), (20, 47344), (Start: 54 @47203 has 32 MA's), (Start: 61 @47179 has 51 MA's), (93, 47083), (98, 46999),

Gene: Corvo_94 Start: 52995, Stop: 52792, Start Num: 68
Candidate Starts for Corvo_94:
(Start: 68 @52995 has 141 MA's), (95, 52860),

Gene: Courthouse_237 Start: 108498, Stop: 108310, Start Num: 67
Candidate Starts for Courthouse_237:
(Start: 59 @108519 has 1 MA's), (Start: 67 @108498 has 99 MA's), (85, 108456), (94, 108417), (98, 108345), (102, 108321),

Gene: Crispicous1_86 Start: 49167, Stop: 49370, Start Num: 68
Candidate Starts for Crispicous1_86:
(Start: 68 @49167 has 141 MA's), (95, 49302), (102, 49362),

Gene: DBQu4n_86 Start: 48304, Stop: 48101, Start Num: 60
Candidate Starts for DBQu4n_86:
(Start: 60 @48304 has 23 MA's), (77, 48250), (96, 48166),

Gene: DaVinci_85 Start: 45949, Stop: 45707, Start Num: 54
Candidate Starts for DaVinci_85:
(5, 46198), (16, 46114), (20, 46090), (Start: 54 @45949 has 32 MA's), (Start: 61 @45925 has 51 MA's), (93, 45829), (98, 45745),

Gene: Dallas_233 Start: 109177, Stop: 108995, Start Num: 67
Candidate Starts for Dallas_233:

(Start: 61 @109192 has 51 MA's), (Start: 67 @109177 has 99 MA's), (85, 109141), (94, 109102), (98, 109030),

Gene: DelvinSonDorr_82 Start: 46134, Stop: 45916, Start Num: 61
Candidate Starts for DelvinSonDorr_82:
(5, 46407), (16, 46323), (20, 46299), (Start: 54 @46158 has 32 MA's), (Start: 61 @46134 has 51 MA's), (93, 46038), (98, 45954),

Gene: Dexes_93 Start: 53941, Stop: 53738, Start Num: 68
Candidate Starts for Dexes_93:
(Start: 68 @53941 has 141 MA's), (95, 53806),

Gene: DirtDevil_83 Start: 49082, Stop: 48879, Start Num: 68
Candidate Starts for DirtDevil_83:
(Start: 68 @49082 has 141 MA's), (95, 48947),

Gene: DmpstrDiver_233 Start: 109198, Stop: 109022, Start Num: 67
Candidate Starts for DmpstrDiver_233:
(Start: 67 @109198 has 99 MA's), (75, 109174), (85, 109156), (94, 109129), (98, 109057), (99, 109042),

Gene: DontArgue_79 Start: 47454, Stop: 47233, Start Num: 44
Candidate Starts for DontArgue_79:
(11, 47628), (27, 47532), (44, 47454), (73, 47394), (96, 47307),

Gene: Doom_84 Start: 50622, Stop: 50419, Start Num: 68
Candidate Starts for Doom_84:
(24, 50769), (28, 50757), (31, 50733), (Start: 68 @50622 has 141 MA's), (95, 50487), (102, 50427),

Gene: Dorothea_87 Start: 47195, Stop: 46953, Start Num: 54
Candidate Starts for Dorothea_87:
(5, 47444), (16, 47360), (20, 47336), (Start: 54 @47195 has 32 MA's), (Start: 61 @47171 has 51 MA's), (93, 47075), (98, 46991),

Gene: Dove_217 Start: 105704, Stop: 105528, Start Num: 67
Candidate Starts for Dove_217:
(Start: 59 @105725 has 1 MA's), (Start: 67 @105704 has 99 MA's), (85, 105662), (94, 105635),

Gene: DrFeelGood_85 Start: 49766, Stop: 49563, Start Num: 68
Candidate Starts for DrFeelGood_85:
(Start: 68 @49766 has 141 MA's), (95, 49631),

Gene: Drake55_87 Start: 48575, Stop: 48369, Start Num: 61
Candidate Starts for Drake55_87:
(15, 48773), (Start: 56 @48590 has 4 MA's), (Start: 61 @48575 has 51 MA's), (96, 48437),

Gene: Drake94_81 Start: 47718, Stop: 47530, Start Num: 64
Candidate Starts for Drake94_81:
(52, 47751), (Start: 64 @47718 has 37 MA's), (96, 47595),

Gene: DreamCatcher_102 Start: 53024, Stop: 52821, Start Num: 68
Candidate Starts for DreamCatcher_102:
(Start: 68 @53024 has 141 MA's), (95, 52889),

Gene: Dreamboat_93 Start: 50459, Stop: 50256, Start Num: 68
Candidate Starts for Dreamboat_93:
(Start: 68 @50459 has 141 MA's), (95, 50324),

Gene: DropBear_87 Start: 48015, Stop: 47824, Start Num: 64
Candidate Starts for DropBear_87:
(1, 48504), (2, 48471), (6, 48288), (Start: 64 @48015 has 37 MA's), (85, 47955), (96, 47889),

Gene: Druantia_84 Start: 48829, Stop: 48632, Start Num: 60
Candidate Starts for Druantia_84:
(Start: 60 @48829 has 23 MA's), (Start: 74 @48790 has 8 MA's), (77, 48781), (96, 48694), (98, 48661),

Gene: Duke13_235 Start: 110008, Stop: 109820, Start Num: 67
Candidate Starts for Duke13_235:
(Start: 61 @110023 has 51 MA's), (Start: 67 @110008 has 99 MA's), (75, 109984), (85, 109966), (94, 109927), (95, 109891), (98, 109855), (102, 109831),

Gene: Duplo_87 Start: 48361, Stop: 48158, Start Num: 60
Candidate Starts for Duplo_87:
(Start: 60 @48361 has 23 MA's), (77, 48307), (96, 48223),

Gene: Dussy_87 Start: 50962, Stop: 50759, Start Num: 68
Candidate Starts for Dussy_87:
(Start: 68 @50962 has 141 MA's), (95, 50827),

Gene: Dynamix_92 Start: 50284, Stop: 50030, Start Num: 45
Candidate Starts for Dynamix_92:
(Start: 45 @50284 has 12 MA's), (Start: 68 @50233 has 141 MA's),

Gene: EZMoney23_83 Start: 48034, Stop: 47822, Start Num: 61
Candidate Starts for EZMoney23_83:
(10, 48262), (21, 48181), (Start: 56 @48049 has 4 MA's), (Start: 61 @48034 has 51 MA's), (Start: 71 @48013 has 2 MA's), (79, 47983), (96, 47890),

Gene: EagleEye_87 Start: 48171, Stop: 47941, Start Num: 54
Candidate Starts for EagleEye_87:
(Start: 54 @48171 has 32 MA's), (Start: 61 @48147 has 51 MA's), (66, 48135), (70, 48123), (83, 48084),

Gene: Eaglepride_87 Start: 48695, Stop: 48462, Start Num: 45
Candidate Starts for Eaglepride_87:
(11, 48872), (27, 48776), (Start: 45 @48695 has 12 MA's), (Start: 51 @48680 has 1 MA's), (55, 48671), (96, 48527),

Gene: Ebony_88 Start: 47870, Stop: 47673, Start Num: 63
Candidate Starts for Ebony_88:
(Start: 63 @47870 has 26 MA's), (96, 47741), (102, 47684),

Gene: Edtherson_87 Start: 49832, Stop: 50038, Start Num: 67
Candidate Starts for Edtherson_87:
(Start: 67 @49832 has 99 MA's), (95, 49970), (102, 50030),

Gene: Ejimix_226 Start: 109183, Stop: 109007, Start Num: 67
Candidate Starts for Ejimix_226:
(Start: 59 @109204 has 1 MA's), (Start: 67 @109183 has 99 MA's), (85, 109141), (94, 109114),

Gene: EnzoK_94 Start: 50479, Stop: 50279, Start Num: 67
Candidate Starts for EnzoK_94:
(Start: 67 @50479 has 99 MA's), (95, 50347),

Gene: Equemioh13_86 Start: 48553, Stop: 48347, Start Num: 61
Candidate Starts for Equemioh13_86:
(15, 48751), (Start: 56 @48568 has 4 MA's), (Start: 61 @48553 has 51 MA's), (81, 48499), (96, 48415),

Gene: EricB_85 Start: 46068, Stop: 45850, Start Num: 61
Candidate Starts for EricB_85:
(5, 46341), (16, 46257), (20, 46233), (Start: 54 @46092 has 32 MA's), (Start: 61 @46068 has 51 MA's), (93, 45972), (98, 45888),

Gene: EricMillard_232 Start: 111027, Stop: 110851, Start Num: 67
Candidate Starts for EricMillard_232:
(Start: 59 @111048 has 1 MA's), (Start: 67 @111027 has 99 MA's), (85, 110985), (94, 110958),

Gene: Espresso_87 Start: 50463, Stop: 50666, Start Num: 68
Candidate Starts for Espresso_87:
(Start: 68 @50463 has 141 MA's), (95, 50598),

Gene: Et2Brutus_89 Start: 48147, Stop: 47950, Start Num: 63
Candidate Starts for Et2Brutus_89:
(Start: 63 @48147 has 26 MA's), (96, 48018), (102, 47961),

Gene: EtoileNova_83 Start: 47837, Stop: 47637, Start Num: 64
Candidate Starts for EtoileNova_83:
(17, 48026), (Start: 64 @47837 has 37 MA's), (85, 47777), (96, 47711), (98, 47678),

Gene: Euphoria_95 Start: 53188, Stop: 52985, Start Num: 68
Candidate Starts for Euphoria_95:
(Start: 68 @53188 has 141 MA's), (95, 53053),

Gene: Eyeball_94 Start: 51846, Stop: 51643, Start Num: 68
Candidate Starts for Eyeball_94:
(Start: 68 @51846 has 141 MA's), (95, 51711),

Gene: Fajezeel_90 Start: 50702, Stop: 50499, Start Num: 68
Candidate Starts for Fajezeel_90:
(Start: 68 @50702 has 141 MA's), (95, 50567),

Gene: Fascinus_86 Start: 51761, Stop: 51558, Start Num: 68
Candidate Starts for Fascinus_86:
(Start: 68 @51761 has 141 MA's), (95, 51626),

Gene: Fenn_97 Start: 52841, Stop: 52638, Start Num: 68
Candidate Starts for Fenn_97:
(Start: 68 @52841 has 141 MA's), (95, 52706),

Gene: Fibonacci_89 Start: 48153, Stop: 47956, Start Num: 63
Candidate Starts for Fibonacci_89:
(Start: 63 @48153 has 26 MA's), (96, 48024), (102, 47967),

Gene: Flare16_86 Start: 48368, Stop: 48162, Start Num: 61
Candidate Starts for Flare16_86:
(15, 48566), (Start: 56 @48383 has 4 MA's), (Start: 61 @48368 has 51 MA's), (81, 48314), (96, 48230),

Gene: Flaverint_90 Start: 48297, Stop: 48100, Start Num: 63
Candidate Starts for Flaverint_90:
(Start: 63 @48297 has 26 MA's), (96, 48168), (97, 48150), (102, 48111),

Gene: FlyCatcher_86 Start: 51563, Stop: 51378, Start Num: 71
Candidate Starts for FlyCatcher_86:
(Start: 71 @51563 has 2 MA's), (87, 51521), (95, 51446),

Gene: Forsytheast_96 Start: 52313, Stop: 52110, Start Num: 68
Candidate Starts for Forsytheast_96:
(Start: 68 @52313 has 141 MA's), (95, 52178),

Gene: Francis47_93 Start: 53565, Stop: 53362, Start Num: 68
Candidate Starts for Francis47_93:
(Start: 68 @53565 has 141 MA's),

Gene: Fred313_84 Start: 47806, Stop: 47615, Start Num: 64
Candidate Starts for Fred313_84:
(1, 48295), (2, 48262), (6, 48079), (Start: 64 @47806 has 37 MA's), (85, 47746), (96, 47680),

Gene: Froghopper_79 Start: 47225, Stop: 47428, Start Num: 68
Candidate Starts for Froghopper_79:
(Start: 62 @47216 has 1 MA's), (Start: 68 @47225 has 141 MA's), (95, 47357),

Gene: Fushigi_84 Start: 48765, Stop: 48968, Start Num: 68
Candidate Starts for Fushigi_84:
(Start: 68 @48765 has 141 MA's), (95, 48900), (102, 48960),

Gene: Gachnar_77 Start: 46581, Stop: 46787, Start Num: 67
Candidate Starts for Gachnar_77:
(Start: 67 @46581 has 99 MA's), (95, 46719),

Gene: GageAP_90 Start: 51509, Stop: 51306, Start Num: 68
Candidate Starts for GageAP_90:
(Start: 68 @51509 has 141 MA's), (95, 51374),

Gene: Gail_88 Start: 48344, Stop: 48141, Start Num: 61
Candidate Starts for Gail_88:
(Start: 56 @48359 has 4 MA's), (Start: 61 @48344 has 51 MA's), (81, 48293), (96, 48209),

Gene: Gandalf20_90 Start: 50084, Stop: 50290, Start Num: 67
Candidate Starts for Gandalf20_90:
(Start: 67 @50084 has 99 MA's), (95, 50222), (102, 50282),

Gene: Garak_90 Start: 47008, Stop: 46790, Start Num: 61

Candidate Starts for Garak_90:
(5, 47281), (16, 47197), (20, 47173), (Start: 54 @47032 has 32 MA's), (Start: 61 @47008 has 51 MA's), (93, 46912),

Gene: GaugeLDP_80 Start: 47824, Stop: 47624, Start Num: 61
Candidate Starts for GaugeLDP_80:
(Start: 61 @47824 has 51 MA's), (80, 47773), (96, 47692),

Gene: Gilberta_87 Start: 47173, Stop: 46976, Start Num: 63
Candidate Starts for Gilberta_87:
(Start: 63 @47173 has 26 MA's), (96, 47044), (102, 46987),

Gene: Giroux_90 Start: 48202, Stop: 47984, Start Num: 64
Candidate Starts for Giroux_90:
(Start: 54 @48229 has 32 MA's), (Start: 64 @48202 has 37 MA's), (86, 48139), (91, 48121), (96, 48049),

Gene: Gladiator_85 Start: 46722, Stop: 46513, Start Num: 61
Candidate Starts for Gladiator_85:
(Start: 61 @46722 has 51 MA's), (86, 46662),

Gene: Gompeii16_90 Start: 52910, Stop: 52620, Start Num: 37
Candidate Starts for Gompeii16_90:
(18, 53012), (Start: 37 @52910 has 3 MA's), (Start: 68 @52823 has 141 MA's), (95, 52688),

Gene: Gonephishing_231 Start: 108727, Stop: 108539, Start Num: 67
Candidate Starts for Gonephishing_231:
(Start: 61 @108742 has 51 MA's), (Start: 67 @108727 has 99 MA's), (75, 108703), (85, 108685), (94, 108646), (98, 108574), (102, 108550),

Gene: Goose_85 Start: 48375, Stop: 48187, Start Num: 64
Candidate Starts for Goose_85:
(52, 48408), (Start: 64 @48375 has 37 MA's), (95, 48255), (96, 48252),

Gene: Goose1D_79 Start: 44280, Stop: 44089, Start Num: 64
Candidate Starts for Goose1D_79:
(1, 44769), (2, 44736), (6, 44553), (Start: 64 @44280 has 37 MA's), (85, 44220), (96, 44154),

Gene: Graduation_93 Start: 51162, Stop: 50911, Start Num: 46
Candidate Starts for Graduation_93:
(Start: 46 @51162 has 3 MA's), (Start: 68 @51114 has 141 MA's), (95, 50979),

Gene: Gratitude_86 Start: 48553, Stop: 48347, Start Num: 61
Candidate Starts for Gratitude_86:
(15, 48751), (Start: 56 @48568 has 4 MA's), (Start: 61 @48553 has 51 MA's), (81, 48499), (96, 48415),

Gene: GrecoEtereo_92 Start: 51814, Stop: 51611, Start Num: 68
Candidate Starts for GrecoEtereo_92:
(Start: 68 @51814 has 141 MA's), (95, 51679),

Gene: GreedyLawyer_80 Start: 46501, Stop: 46283, Start Num: 61
Candidate Starts for GreedyLawyer_80:

(5, 46774), (16, 46690), (20, 46666), (Start: 54 @46525 has 32 MA's), (Start: 61 @46501 has 51 MA's), (93, 46405),

Gene: Greg_90 Start: 50702, Stop: 50499, Start Num: 68
Candidate Starts for Greg_90:
(Start: 68 @50702 has 141 MA's), (95, 50567),

Gene: GroundGoblin_83 Start: 49224, Stop: 49021, Start Num: 68
Candidate Starts for GroundGoblin_83:
(Start: 68 @49224 has 141 MA's), (95, 49089),

Gene: Gruunaga_88 Start: 46677, Stop: 46468, Start Num: 61
Candidate Starts for Gruunaga_88:
(Start: 61 @46677 has 51 MA's), (86, 46617),

Gene: Gwendoluna_91 Start: 51399, Stop: 51109, Start Num: 37
Candidate Starts for Gwendoluna_91:
(18, 51501), (Start: 37 @51399 has 3 MA's), (Start: 68 @51312 has 141 MA's), (95, 51177),

Gene: Gyzlar_83 Start: 47405, Stop: 47608, Start Num: 68
Candidate Starts for Gyzlar_83:
(32, 47294), (Start: 68 @47405 has 141 MA's), (95, 47540), (102, 47600),

Gene: HINdeR_81 Start: 50361, Stop: 50110, Start Num: 49
Candidate Starts for HINdeR_81:
(47, 50364), (Start: 49 @50361 has 2 MA's), (Start: 67 @50316 has 99 MA's), (84, 50265), (89, 50247), (96, 50175),

Gene: Halley_237 Start: 109664, Stop: 109482, Start Num: 67
Candidate Starts for Halley_237:
(Start: 61 @109679 has 51 MA's), (Start: 67 @109664 has 99 MA's), (85, 109628), (94, 109589), (98, 109517),

Gene: Hami1_87 Start: 46210, Stop: 46416, Start Num: 67
Candidate Starts for Hami1_87:
(Start: 67 @46210 has 99 MA's), (95, 46348),

Gene: Hammer_89 Start: 46384, Stop: 46175, Start Num: 61
Candidate Starts for Hammer_89:
(Start: 61 @46384 has 51 MA's), (86, 46324), (95, 46249),

Gene: HanShotFirst_90 Start: 51379, Stop: 51594, Start Num: 62
Candidate Starts for HanShotFirst_90:
(12, 51163), (Start: 62 @51379 has 1 MA's), (Start: 68 @51388 has 141 MA's), (95, 51523),

Gene: Hannaconda_225 Start: 109232, Stop: 109056, Start Num: 67
Candidate Starts for Hannaconda_225:
(Start: 59 @109253 has 1 MA's), (Start: 67 @109232 has 99 MA's), (85, 109190), (94, 109163),

Gene: HarryHoudini_86 Start: 48578, Stop: 48372, Start Num: 61
Candidate Starts for HarryHoudini_86:
(15, 48776), (Start: 56 @48593 has 4 MA's), (Start: 61 @48578 has 51 MA's), (96, 48440),

Gene: HarryOW_91 Start: 51434, Stop: 51640, Start Num: 67
Candidate Starts for HarryOW_91:
(Start: 67 @51434 has 99 MA's), (95, 51572),

Gene: Heathen_86 Start: 47894, Stop: 47703, Start Num: 64
Candidate Starts for Heathen_86:
(1, 48383), (2, 48350), (6, 48167), (Start: 64 @47894 has 37 MA's), (85, 47834), (96, 47768),

Gene: HelDan_86 Start: 48117, Stop: 47926, Start Num: 64
Candidate Starts for HelDan_86:
(1, 48606), (2, 48573), (6, 48390), (Start: 64 @48117 has 37 MA's), (85, 48057), (96, 47991),

Gene: Helmet_91 Start: 47032, Stop: 46790, Start Num: 54
Candidate Starts for Helmet_91:
(5, 47281), (16, 47197), (20, 47173), (Start: 54 @47032 has 32 MA's), (Start: 61 @47008 has 51 MA's), (93, 46912),

Gene: Hermia_84 Start: 49274, Stop: 49071, Start Num: 68
Candidate Starts for Hermia_84:
(Start: 68 @49274 has 141 MA's), (95, 49139),

Gene: HermioneGrange_94 Start: 51648, Stop: 51857, Start Num: 67
Candidate Starts for HermioneGrange_94:
(Start: 67 @51648 has 99 MA's), (95, 51786),

Gene: Hexamo_88 Start: 46552, Stop: 46343, Start Num: 61
Candidate Starts for Hexamo_88:
(Start: 61 @46552 has 51 MA's), (86, 46492),

Gene: Hidrated_218 Start: 109826, Stop: 109638, Start Num: 67
Candidate Starts for Hidrated_218:
(Start: 67 @109826 has 99 MA's), (75, 109802), (85, 109784), (94, 109745), (98, 109673), (102, 109649),

Gene: HokkenD_227 Start: 110994, Stop: 110791, Start Num: 61
Candidate Starts for HokkenD_227:
(Start: 61 @110994 has 51 MA's), (Start: 67 @110979 has 99 MA's), (75, 110955), (85, 110937), (94, 110898), (95, 110862), (98, 110826), (102, 110802),

Gene: Homines_83 Start: 46852, Stop: 47055, Start Num: 68
Candidate Starts for Homines_83:
(Start: 68 @46852 has 141 MA's), (95, 46987), (102, 47047),

Gene: Hookmount_86 Start: 47833, Stop: 47633, Start Num: 64
Candidate Starts for Hookmount_86:
(17, 48022), (Start: 64 @47833 has 37 MA's), (85, 47773), (96, 47707), (98, 47674),

Gene: Hoot_82 Start: 44409, Stop: 44167, Start Num: 54
Candidate Starts for Hoot_82:
(5, 44658), (16, 44574), (20, 44550), (Start: 54 @44409 has 32 MA's), (Start: 61 @44385 has 51 MA's), (93, 44289), (98, 44205),

Gene: Hope4ever_88 Start: 50126, Stop: 49923, Start Num: 68

Candidate Starts for Hope4ever_88:
(Start: 68 @50126 has 141 MA's), (95, 49991),

Gene: Hughesyang_237 Start: 110914, Stop: 110738, Start Num: 67
Candidate Starts for Hughesyang_237:
(Start: 59 @110935 has 1 MA's), (Start: 67 @110914 has 99 MA's), (85, 110872), (94, 110845),

Gene: Hutc2_86 Start: 47037, Stop: 46840, Start Num: 63
Candidate Starts for Hutc2_86:
(Start: 63 @47037 has 26 MA's), (96, 46908), (102, 46851),

Gene: ILeeKay_91 Start: 50632, Stop: 50429, Start Num: 68
Candidate Starts for ILeeKay_91:
(Start: 68 @50632 has 141 MA's), (95, 50497),

Gene: Ichabod_96 Start: 52974, Stop: 52720, Start Num: 45
Candidate Starts for Ichabod_96:
(Start: 45 @52974 has 12 MA's), (Start: 68 @52923 has 141 MA's), (95, 52788),

Gene: IgnatiusPatJac_87 Start: 48927, Stop: 49127, Start Num: 67
Candidate Starts for IgnatiusPatJac_87:
(Start: 67 @48927 has 99 MA's), (95, 49059),

Gene: Imbriano_88 Start: 47397, Stop: 47155, Start Num: 54
Candidate Starts for Imbriano_88:
(5, 47646), (16, 47562), (20, 47538), (Start: 54 @47397 has 32 MA's), (Start: 61 @47373 has 51 MA's), (93, 47277), (98, 47193),

Gene: Indra_92 Start: 47033, Stop: 46791, Start Num: 54
Candidate Starts for Indra_92:
(5, 47282), (16, 47198), (20, 47174), (Start: 54 @47033 has 32 MA's), (Start: 61 @47009 has 51 MA's), (93, 46913),

Gene: Insomnia_89 Start: 48331, Stop: 48134, Start Num: 63
Candidate Starts for Insomnia_89:
(Start: 63 @48331 has 26 MA's), (96, 48202), (102, 48145),

Gene: Inyanga_82 Start: 49164, Stop: 49367, Start Num: 68
Candidate Starts for Inyanga_82:
(Start: 68 @49164 has 141 MA's), (95, 49299), (102, 49359),

Gene: Iqorha_82 Start: 49163, Stop: 49366, Start Num: 68
Candidate Starts for Iqorha_82:
(Start: 68 @49163 has 141 MA's), (95, 49298), (102, 49358),

Gene: Isca_83 Start: 47223, Stop: 47023, Start Num: 64
Candidate Starts for Isca_83:
(7, 47487), (Start: 64 @47223 has 37 MA's), (66, 47217), (85, 47163), (96, 47097), (98, 47064),

Gene: Isiphiwo_83 Start: 46120, Stop: 45878, Start Num: 54
Candidate Starts for Isiphiwo_83:
(5, 46369), (16, 46285), (20, 46261), (Start: 54 @46120 has 32 MA's), (Start: 61 @46096 has 51 MA's), (93, 46000), (98, 45916), (100, 45895),

Gene: JC27_94 Start: 50665, Stop: 50871, Start Num: 67
Candidate Starts for JC27_94:
(Start: 67 @50665 has 99 MA's), (95, 50803),

Gene: Jabith_89 Start: 48345, Stop: 48148, Start Num: 63
Candidate Starts for Jabith_89:
(3, 48675), (Start: 63 @48345 has 26 MA's), (96, 48216), (102, 48159),

Gene: JackSparrow_92 Start: 50104, Stop: 50310, Start Num: 67
Candidate Starts for JackSparrow_92:
(Start: 67 @50104 has 99 MA's), (95, 50242),

Gene: JacoRen57_68 Start: 49553, Stop: 49792, Start Num: 56
Candidate Starts for JacoRen57_68:
(Start: 56 @49553 has 4 MA's), (78, 49622), (92, 49661), (98, 49754), (100, 49775),

Gene: Jasper_93 Start: 50345, Stop: 50142, Start Num: 68
Candidate Starts for Jasper_93:
(Start: 68 @50345 has 141 MA's), (95, 50210),

Gene: Jerm2_90 Start: 51717, Stop: 51926, Start Num: 67
Candidate Starts for Jerm2_90:
(Start: 67 @51717 has 99 MA's), (95, 51855),

Gene: JewelBug_79 Start: 44888, Stop: 44646, Start Num: 54
Candidate Starts for JewelBug_79:
(5, 45137), (16, 45053), (20, 45029), (Start: 54 @44888 has 32 MA's), (Start: 61 @44864 has 51 MA's), (93, 44768),

Gene: Jordennis_85 Start: 46792, Stop: 46550, Start Num: 54
Candidate Starts for Jordennis_85:
(5, 47041), (16, 46957), (20, 46933), (Start: 54 @46792 has 32 MA's), (Start: 61 @46768 has 51 MA's), (93, 46672),

Gene: Jorgensen_100 Start: 52124, Stop: 52330, Start Num: 67
Candidate Starts for Jorgensen_100:
(Start: 67 @52124 has 99 MA's), (95, 52262), (102, 52322),

Gene: Joselito_87 Start: 48051, Stop: 47854, Start Num: 63
Candidate Starts for Joselito_87:
(Start: 63 @48051 has 26 MA's), (96, 47922), (102, 47865),

Gene: Journey13_69 Start: 43468, Stop: 43256, Start Num: 61
Candidate Starts for Journey13_69:
(Start: 56 @43483 has 4 MA's), (Start: 61 @43468 has 51 MA's), (81, 43414), (89, 43390), (96, 43330), (98, 43297), (100, 43276),

Gene: Jsquared_90 Start: 48187, Stop: 47969, Start Num: 56
Candidate Starts for Jsquared_90:
(Start: 56 @48187 has 4 MA's), (Start: 60 @48172 has 23 MA's), (77, 48118), (96, 48034), (98, 48001),

Gene: JuicyJay_230 Start: 110889, Stop: 110713, Start Num: 67

Candidate Starts for JuicyJay_230:
(Start: 59 @110910 has 1 MA's), (Start: 67 @110889 has 99 MA's), (85, 110847), (94, 110820),

Gene: JuliaChild_91 Start: 51435, Stop: 51232, Start Num: 68
Candidate Starts for JuliaChild_91:
(24, 51582), (28, 51570), (31, 51546), (Start: 68 @51435 has 141 MA's), (95, 51300), (102, 51240),

Gene: KBG_87 Start: 52193, Stop: 51990, Start Num: 68
Candidate Starts for KBG_87:
(24, 52340), (28, 52328), (31, 52304), (Start: 68 @52193 has 141 MA's), (95, 52058), (102, 51998),

Gene: KSSJEB_91 Start: 50745, Stop: 50542, Start Num: 68
Candidate Starts for KSSJEB_91:
(Start: 68 @50745 has 141 MA's), (95, 50610),

Gene: Kachowdy_88 Start: 48146, Stop: 47955, Start Num: 64
Candidate Starts for Kachowdy_88:
(1, 48635), (2, 48602), (6, 48419), (Start: 64 @48146 has 37 MA's), (85, 48086), (96, 48020),

Gene: Kalah2_224 Start: 108578, Stop: 108375, Start Num: 61
Candidate Starts for Kalah2_224:
(Start: 61 @108578 has 51 MA's), (Start: 67 @108563 has 99 MA's), (75, 108539), (85, 108521), (94, 108482), (95, 108446), (96, 108443), (98, 108410), (99, 108395),

Gene: Kalpine_88 Start: 49294, Stop: 49088, Start Num: 61
Candidate Starts for Kalpine_88:
(13, 49507), (Start: 56 @49309 has 4 MA's), (Start: 61 @49294 has 51 MA's), (96, 49156),

Gene: Kanely_93 Start: 51901, Stop: 51698, Start Num: 68
Candidate Starts for Kanely_93:
(Start: 68 @51901 has 141 MA's), (95, 51766),

Gene: KashFlow_227 Start: 109125, Stop: 108949, Start Num: 67
Candidate Starts for KashFlow_227:
(Start: 59 @109146 has 1 MA's), (Start: 67 @109125 has 99 MA's), (85, 109083), (94, 109056), (96, 109017),

Gene: Katalie136_82 Start: 48581, Stop: 48423, Start Num: 74
Candidate Starts for Katalie136_82:
(Start: 60 @48620 has 23 MA's), (Start: 74 @48581 has 8 MA's), (77, 48572), (96, 48485), (98, 48452),

Gene: Kazan_88 Start: 46564, Stop: 46322, Start Num: 54
Candidate Starts for Kazan_88:
(5, 46813), (16, 46729), (20, 46705), (Start: 54 @46564 has 32 MA's), (Start: 61 @46540 has 51 MA's), (93, 46444), (98, 46360),

Gene: Kenmech_93 Start: 52088, Stop: 51885, Start Num: 68
Candidate Starts for Kenmech_93:
(Start: 68 @52088 has 141 MA's), (95, 51953),

Gene: Kerberos_86 Start: 48324, Stop: 48121, Start Num: 60
Candidate Starts for Kerberos_86:
(Start: 60 @48324 has 23 MA's), (77, 48270), (96, 48186),

Gene: KikiBouba_87 Start: 49083, Stop: 48880, Start Num: 68
Candidate Starts for KikiBouba_87:
(Start: 68 @49083 has 141 MA's), (95, 48948),

Gene: Killigrew_87 Start: 50774, Stop: 50574, Start Num: 67
Candidate Starts for Killigrew_87:
(Start: 67 @50774 has 99 MA's), (95, 50642),

Gene: Kimba_86 Start: 47354, Stop: 47157, Start Num: 63
Candidate Starts for Kimba_86:
(Start: 63 @47354 has 26 MA's), (96, 47225), (102, 47168),

Gene: Kimona_86 Start: 47954, Stop: 47757, Start Num: 71
Candidate Starts for Kimona_86:
(Start: 53 @48005 has 1 MA's), (Start: 71 @47954 has 2 MA's), (95, 47828),

Gene: Kinmap_87 Start: 46506, Stop: 46321, Start Num: 69
Candidate Starts for Kinmap_87:
(Start: 69 @46506 has 1 MA's), (Start: 74 @46485 has 8 MA's), (88, 46446), (93, 46440), (96, 46389), (101, 46335),

Gene: Kipper29_87 Start: 46567, Stop: 46325, Start Num: 54
Candidate Starts for Kipper29_87:
(5, 46816), (16, 46732), (20, 46708), (Start: 54 @46567 has 32 MA's), (Start: 61 @46543 has 51 MA's), (93, 46447), (98, 46363),

Gene: KittenMittens_79 Start: 47725, Stop: 47537, Start Num: 64
Candidate Starts for KittenMittens_79:
(52, 47758), (Start: 64 @47725 has 37 MA's), (96, 47602),

Gene: Klein_242 Start: 109911, Stop: 109735, Start Num: 67
Candidate Starts for Klein_242:
(Start: 59 @109932 has 1 MA's), (Start: 67 @109911 has 99 MA's), (85, 109869), (94, 109842),

Gene: Koduck_86 Start: 47511, Stop: 47308, Start Num: 60
Candidate Starts for Koduck_86:
(Start: 56 @47526 has 4 MA's), (Start: 60 @47511 has 23 MA's), (77, 47457), (79, 47451), (96, 47373),

Gene: Koko_90 Start: 47422, Stop: 47180, Start Num: 54
Candidate Starts for Koko_90:
(5, 47671), (16, 47587), (20, 47563), (Start: 54 @47422 has 32 MA's), (Start: 61 @47398 has 51 MA's), (93, 47302),

Gene: Kremtemulon_82 Start: 48636, Stop: 48466, Start Num: 74
Candidate Starts for Kremtemulon_82:
(Start: 74 @48636 has 8 MA's), (96, 48540), (98, 48507),

Gene: Kristoff_82 Start: 49033, Stop: 48797, Start Num: 45
Candidate Starts for Kristoff_82:
(34, 49066), (Start: 45 @49033 has 12 MA's), (Start: 51 @49018 has 1 MA's), (55, 49009), (77, 48940), (96, 48862), (98, 48829),

Gene: Kugel_94 Start: 51995, Stop: 51792, Start Num: 68
Candidate Starts for Kugel_94:
(Start: 68 @51995 has 141 MA's), (95, 51860),

Gene: KyMonks1A_96 Start: 51763, Stop: 51560, Start Num: 68
Candidate Starts for KyMonks1A_96:
(Start: 68 @51763 has 141 MA's), (95, 51628), (102, 51568),

Gene: Kykar_88 Start: 49910, Stop: 49701, Start Num: 68
Candidate Starts for Kykar_88:
(Start: 68 @49910 has 141 MA's), (95, 49769),

Gene: L5_79 Start: 47417, Stop: 47199, Start Num: 56
Candidate Starts for L5_79:
(Start: 56 @47417 has 4 MA's), (Start: 60 @47402 has 23 MA's), (77, 47348), (79, 47342), (96, 47264),

Gene: Lambert1_86 Start: 47834, Stop: 47634, Start Num: 64
Candidate Starts for Lambert1_86:
(6, 48107), (17, 48023), (Start: 64 @47834 has 37 MA's), (85, 47774), (96, 47708), (98, 47675),

Gene: Lamina13_93 Start: 51757, Stop: 51963, Start Num: 67
Candidate Starts for Lamina13_93:
(Start: 67 @51757 has 99 MA's), (95, 51895),

Gene: Larenn_85 Start: 48736, Stop: 48527, Start Num: 61
Candidate Starts for Larenn_85:
(Start: 56 @48751 has 4 MA's), (Start: 61 @48736 has 51 MA's), (81, 48682), (89, 48658), (96, 48598), (98, 48565),

Gene: Lesedi_88 Start: 50089, Stop: 49889, Start Num: 67
Candidate Starts for Lesedi_88:
(Start: 67 @50089 has 99 MA's), (95, 49957),

Gene: Levia_85 Start: 48437, Stop: 48640, Start Num: 68
Candidate Starts for Levia_85:
(Start: 68 @48437 has 141 MA's), (95, 48572),

Gene: Licorice_91 Start: 52878, Stop: 52678, Start Num: 68
Candidate Starts for Licorice_91:
(Start: 68 @52878 has 141 MA's), (95, 52746), (102, 52686),

Gene: LilBib_80 Start: 49937, Stop: 49734, Start Num: 68
Candidate Starts for LilBib_80:
(Start: 68 @49937 has 141 MA's),

Gene: Lilbunny_88 Start: 46631, Stop: 46422, Start Num: 61
Candidate Starts for Lilbunny_88:
(Start: 61 @46631 has 51 MA's), (86, 46571), (95, 46496),

Gene: LittleE_224 Start: 106916, Stop: 106728, Start Num: 67
Candidate Starts for LittleE_224:
(Start: 67 @106916 has 99 MA's), (75, 106892), (85, 106874), (94, 106835), (98, 106763), (102, 106739),

Gene: Lopton_88 Start: 52012, Stop: 51809, Start Num: 68
Candidate Starts for Lopton_88:
(Start: 68 @52012 has 141 MA's), (95, 51877),

Gene: Loser_89 Start: 49477, Stop: 49256, Start Num: 60
Candidate Starts for Loser_89:
(21, 49621), (35, 49558), (Start: 56 @49492 has 4 MA's), (Start: 60 @49477 has 23 MA's), (98, 49291),

Gene: Lucivia_90 Start: 48330, Stop: 48133, Start Num: 63
Candidate Starts for Lucivia_90:
(Start: 63 @48330 has 26 MA's), (96, 48201), (102, 48144),

Gene: Lucky2013_232 Start: 106413, Stop: 106237, Start Num: 67
Candidate Starts for Lucky2013_232:
(Start: 59 @106434 has 1 MA's), (Start: 67 @106413 has 99 MA's), (85, 106371), (94, 106344),

Gene: Lucyedi_86 Start: 48370, Stop: 48140, Start Num: 54
Candidate Starts for Lucyedi_86:
(Start: 54 @48370 has 32 MA's), (Start: 61 @48346 has 51 MA's), (66, 48334), (70, 48322), (83, 48283),

Gene: LunarLander_80 Start: 48577, Stop: 48374, Start Num: 68
Candidate Starts for LunarLander_80:
(Start: 68 @48577 has 141 MA's), (95, 48442), (102, 48382),

Gene: MPlant7149_90 Start: 49878, Stop: 50087, Start Num: 67
Candidate Starts for MPlant7149_90:
(Start: 67 @49878 has 99 MA's), (95, 50016),

Gene: MaCh_89 Start: 48294, Stop: 48097, Start Num: 63
Candidate Starts for MaCh_89:
(Start: 63 @48294 has 26 MA's), (96, 48165), (102, 48108),

Gene: Mabel_89 Start: 48295, Stop: 48098, Start Num: 63
Candidate Starts for Mabel_89:
(Start: 63 @48295 has 26 MA's), (96, 48166), (102, 48109),

Gene: Magnar_91 Start: 51040, Stop: 50837, Start Num: 68
Candidate Starts for Magnar_91:
(Start: 68 @51040 has 141 MA's), (95, 50905),

Gene: Magnito_91 Start: 51185, Stop: 50982, Start Num: 68
Candidate Starts for Magnito_91:
(30, 51299), (47, 51236), (Start: 68 @51185 has 141 MA's), (95, 51050),

Gene: MajorMajor_83 Start: 46221, Stop: 46018, Start Num: 60
Candidate Starts for MajorMajor_83:
(Start: 56 @46236 has 4 MA's), (Start: 60 @46221 has 23 MA's), (77, 46167), (79, 46161), (96, 46083), (98, 46050),

Gene: Malec_85 Start: 49144, Stop: 48938, Start Num: 61
Candidate Starts for Malec_85:

(15, 49342), (Start: 56 @49159 has 4 MA's), (Start: 61 @49144 has 51 MA's), (81, 49090), (89, 49066), (96, 49006),

Gene: Manatee_92 Start: 50646, Stop: 50443, Start Num: 68
Candidate Starts for Manatee_92:
(Start: 45 @50697 has 12 MA's), (Start: 68 @50646 has 141 MA's),

Gene: Marcell_83 Start: 48789, Stop: 48586, Start Num: 68
Candidate Starts for Marcell_83:
(Start: 68 @48789 has 141 MA's),

Gene: Marchesa_86 Start: 48008, Stop: 47817, Start Num: 64
Candidate Starts for Marchesa_86:
(1, 48497), (2, 48464), (6, 48281), (Start: 64 @48008 has 37 MA's), (85, 47948), (96, 47882),

Gene: Marchy_81 Start: 47255, Stop: 47052, Start Num: 68
Candidate Starts for Marchy_81:
(Start: 68 @47255 has 141 MA's), (95, 47120),

Gene: Marco3_91 Start: 51455, Stop: 51661, Start Num: 67
Candidate Starts for Marco3_91:
(Start: 67 @51455 has 99 MA's), (95, 51593), (102, 51653),

Gene: Marge_87 Start: 49768, Stop: 49974, Start Num: 67
Candidate Starts for Marge_87:
(Start: 67 @49768 has 99 MA's), (95, 49906),

Gene: Margo_86 Start: 47859, Stop: 47659, Start Num: 64
Candidate Starts for Margo_86:
(6, 48132), (17, 48048), (Start: 64 @47859 has 37 MA's), (85, 47799), (96, 47733), (98, 47700),

Gene: Marleymoo_215 Start: 106507, Stop: 106319, Start Num: 67
Candidate Starts for Marleymoo_215:
(Start: 67 @106507 has 99 MA's), (75, 106483), (85, 106465), (94, 106426), (98, 106354), (102, 106330),

Gene: Maroc7_92 Start: 52980, Stop: 52777, Start Num: 68
Candidate Starts for Maroc7_92:
(Start: 68 @52980 has 141 MA's), (95, 52845),

Gene: Marsha_93 Start: 52954, Stop: 53160, Start Num: 67
Candidate Starts for Marsha_93:
(Start: 67 @52954 has 99 MA's), (95, 53092),

Gene: MaryBeth_91 Start: 51469, Stop: 51266, Start Num: 68
Candidate Starts for MaryBeth_91:
(Start: 68 @51469 has 141 MA's), (95, 51334),

Gene: McFly_87 Start: 46903, Stop: 46661, Start Num: 54
Candidate Starts for McFly_87:
(5, 47152), (16, 47068), (20, 47044), (Start: 54 @46903 has 32 MA's), (Start: 61 @46879 has 51 MA's), (93, 46783), (98, 46699),

Gene: McGuire_92 Start: 50898, Stop: 50695, Start Num: 68
Candidate Starts for McGuire_92:
(Start: 68 @50898 has 141 MA's), (95, 50763),

Gene: McSinger_84 Start: 49911, Stop: 49708, Start Num: 68
Candidate Starts for McSinger_84:
(Start: 68 @49911 has 141 MA's), (95, 49776),

Gene: MetalQZJ_88 Start: 51469, Stop: 51266, Start Num: 68
Candidate Starts for MetalQZJ_88:
(Start: 68 @51469 has 141 MA's), (95, 51334),

Gene: MiaZeal_245 Start: 108550, Stop: 108374, Start Num: 67
Candidate Starts for MiaZeal_245:
(Start: 59 @108571 has 1 MA's), (Start: 67 @108550 has 99 MA's), (85, 108508), (94, 108481),

Gene: Michley_91 Start: 50597, Stop: 50346, Start Num: 46
Candidate Starts for Michley_91:
(Start: 46 @50597 has 3 MA's), (Start: 68 @50549 has 141 MA's), (95, 50414),

Gene: MiculUcigas_86 Start: 48271, Stop: 48065, Start Num: 61
Candidate Starts for MiculUcigas_86:
(15, 48469), (Start: 56 @48286 has 4 MA's), (Start: 61 @48271 has 51 MA's), (81, 48217), (96, 48133),

Gene: MilleFeuille_94 Start: 50374, Stop: 50580, Start Num: 67
Candidate Starts for MilleFeuille_94:
(Start: 67 @50374 has 99 MA's), (95, 50512),

Gene: Minerva_233 Start: 107908, Stop: 107726, Start Num: 67
Candidate Starts for Minerva_233:
(Start: 61 @107923 has 51 MA's), (Start: 67 @107908 has 99 MA's), (85, 107872), (94, 107833), (98, 107761),

Gene: MissWhite_79 Start: 45139, Stop: 44933, Start Num: 61
Candidate Starts for MissWhite_79:
(Start: 56 @45154 has 4 MA's), (Start: 61 @45139 has 51 MA's), (81, 45085), (89, 45061), (96, 45001),

Gene: Mkhuseli_91 Start: 49763, Stop: 49557, Start Num: 68
Candidate Starts for Mkhuseli_91:
(Start: 68 @49763 has 141 MA's), (95, 49625),

Gene: Molly_89 Start: 49678, Stop: 49475, Start Num: 68
Candidate Starts for Molly_89:
(24, 49825), (28, 49813), (31, 49789), (Start: 68 @49678 has 141 MA's), (95, 49543), (102, 49483),

Gene: Monet_92 Start: 51735, Stop: 51938, Start Num: 68
Candidate Starts for Monet_92:
(Start: 68 @51735 has 141 MA's), (95, 51870), (102, 51930),

Gene: Moose_95 Start: 52313, Stop: 52110, Start Num: 68
Candidate Starts for Moose_95:
(Start: 68 @52313 has 141 MA's), (95, 52178),

Gene: Morpher26_82 Start: 48602, Stop: 48444, Start Num: 74
Candidate Starts for Morpher26_82:
(Start: 60 @48641 has 23 MA's), (Start: 74 @48602 has 8 MA's), (77, 48593), (96, 48506), (98, 48473),

Gene: MrGordo_92 Start: 50603, Stop: 50400, Start Num: 68
Candidate Starts for MrGordo_92:
(Start: 68 @50603 has 141 MA's), (95, 50468),

Gene: Mryolo_84 Start: 48769, Stop: 48972, Start Num: 68
Candidate Starts for Mryolo_84:
(Start: 68 @48769 has 141 MA's), (95, 48904),

Gene: Mulciber_88 Start: 48150, Stop: 47953, Start Num: 63
Candidate Starts for Mulciber_88:
(Start: 63 @48150 has 26 MA's), (96, 48021), (102, 47964),

Gene: Mule_92 Start: 49973, Stop: 50179, Start Num: 67
Candidate Starts for Mule_92:
(Start: 67 @49973 has 99 MA's), (95, 50111),

Gene: Munch_88 Start: 48299, Stop: 48102, Start Num: 63
Candidate Starts for Munch_88:
(Start: 63 @48299 has 26 MA's), (96, 48170), (102, 48113),

Gene: Museum_90 Start: 51040, Stop: 50837, Start Num: 68
Candidate Starts for Museum_90:
(Start: 68 @51040 has 141 MA's), (95, 50905),

Gene: NEHalo_88 Start: 50148, Stop: 49945, Start Num: 68
Candidate Starts for NEHalo_88:
(Start: 68 @50148 has 141 MA's), (95, 50013),

Gene: NaSiaTalie_87 Start: 48558, Stop: 48352, Start Num: 61
Candidate Starts for NaSiaTalie_87:
(15, 48756), (Start: 56 @48573 has 4 MA's), (Start: 61 @48558 has 51 MA's), (81, 48504), (96, 48420),

Gene: Naira_96 Start: 52973, Stop: 52770, Start Num: 68
Candidate Starts for Naira_96:
(Start: 68 @52973 has 141 MA's), (95, 52838),

Gene: Neeharika16_86 Start: 46630, Stop: 46412, Start Num: 61
Candidate Starts for Neeharika16_86:
(5, 46903), (16, 46819), (20, 46795), (Start: 54 @46654 has 32 MA's), (Start: 61 @46630 has 51 MA's),
(93, 46534), (98, 46450),

Gene: Nekros_235 Start: 109893, Stop: 109717, Start Num: 67
Candidate Starts for Nekros_235:
(Start: 59 @109914 has 1 MA's), (Start: 67 @109893 has 99 MA's), (85, 109851), (94, 109824),

Gene: Nerujay_93 Start: 51720, Stop: 51926, Start Num: 67
Candidate Starts for Nerujay_93:
(Start: 67 @51720 has 99 MA's), (95, 51858),

Gene: Newrala_86 Start: 47000, Stop: 46758, Start Num: 54
Candidate Starts for Newrala_86:
(5, 47249), (16, 47165), (20, 47141), (Start: 54 @47000 has 32 MA's), (Start: 61 @46976 has 51 MA's), (93, 46880),

Gene: Nhonho_87 Start: 50646, Stop: 50852, Start Num: 67
Candidate Starts for Nhonho_87:
(Start: 67 @50646 has 99 MA's), (95, 50784),

Gene: Nibley_225 Start: 105186, Stop: 105010, Start Num: 67
Candidate Starts for Nibley_225:
(Start: 59 @105207 has 1 MA's), (Start: 67 @105186 has 99 MA's), (85, 105144), (94, 105117),

Gene: NihilNomen_236 Start: 108748, Stop: 108545, Start Num: 61
Candidate Starts for NihilNomen_236:
(Start: 61 @108748 has 51 MA's), (Start: 67 @108733 has 99 MA's), (75, 108709), (85, 108691), (94, 108652), (98, 108580), (102, 108556),

Gene: Niza_89 Start: 51286, Stop: 51083, Start Num: 68
Candidate Starts for Niza_89:
(Start: 68 @51286 has 141 MA's), (95, 51151),

Gene: Noella_87 Start: 47835, Stop: 47635, Start Num: 64
Candidate Starts for Noella_87:
(17, 48024), (Start: 64 @47835 has 37 MA's), (85, 47775), (96, 47709), (98, 47676),

Gene: Norbert_82 Start: 47832, Stop: 47632, Start Num: 64
Candidate Starts for Norbert_82:
(17, 48021), (Start: 64 @47832 has 37 MA's), (85, 47772), (96, 47706), (98, 47673),

Gene: Norz_90 Start: 53476, Stop: 53273, Start Num: 68
Candidate Starts for Norz_90:
(Start: 68 @53476 has 141 MA's),

Gene: Noxious_89 Start: 49598, Stop: 49395, Start Num: 68
Candidate Starts for Noxious_89:
(Start: 68 @49598 has 141 MA's), (95, 49463),

Gene: OKCentral2016_83 Start: 47802, Stop: 47614, Start Num: 64
Candidate Starts for OKCentral2016_83:
(52, 47835), (Start: 64 @47802 has 37 MA's), (95, 47682), (96, 47679),

Gene: Odette_234 Start: 110012, Stop: 109836, Start Num: 67
Candidate Starts for Odette_234:
(Start: 59 @110033 has 1 MA's), (Start: 67 @110012 has 99 MA's), (85, 109970), (94, 109943),

Gene: Ohno789_95 Start: 52428, Stop: 52225, Start Num: 68
Candidate Starts for Ohno789_95:
(Start: 68 @52428 has 141 MA's), (95, 52293),

Gene: Omega_235 Start: 109887, Stop: 109675, Start Num: 61
Candidate Starts for Omega_235:

(41, 109956), (Start: 61 @109887 has 51 MA's), (75, 109839), (85, 109821), (94, 109782), (98, 109710), (102, 109686),

Gene: Oogway_87 Start: 51358, Stop: 51155, Start Num: 68
Candidate Starts for Oogway_87:
(Start: 68 @51358 has 141 MA's), (95, 51223),

Gene: Orange_89 Start: 47849, Stop: 47652, Start Num: 63
Candidate Starts for Orange_89:
(Start: 63 @47849 has 26 MA's), (96, 47720), (102, 47663),

Gene: PP_04 Start: 1143, Stop: 901, Start Num: 53
Candidate Starts for PP_04:
(Start: 53 @1143 has 1 MA's), (Start: 67 @1104 has 99 MA's), (76, 1074), (90, 1035), (92, 1026), (96, 966),

Gene: PSullivan_87 Start: 49195, Stop: 48992, Start Num: 68
Candidate Starts for PSullivan_87:
(24, 49342), (28, 49330), (31, 49306), (Start: 68 @49195 has 141 MA's), (95, 49060), (102, 49000),

Gene: PacerPaul_93 Start: 52361, Stop: 52158, Start Num: 68
Candidate Starts for PacerPaul_93:
(Start: 68 @52361 has 141 MA's),

Gene: PainterBoy_85 Start: 48081, Stop: 47851, Start Num: 54
Candidate Starts for PainterBoy_85:
(Start: 54 @48081 has 32 MA's), (Start: 61 @48057 has 51 MA's), (66, 48045), (70, 48033), (83, 47994),

Gene: Panamaxus_82 Start: 47834, Stop: 47634, Start Num: 64
Candidate Starts for Panamaxus_82:
(17, 48023), (Start: 64 @47834 has 37 MA's), (85, 47774), (96, 47708), (98, 47675),

Gene: Papez_93 Start: 51585, Stop: 51337, Start Num: 46
Candidate Starts for Papez_93:
(Start: 46 @51585 has 3 MA's), (Start: 68 @51537 has 141 MA's), (95, 51405),

Gene: Paphu_87 Start: 49638, Stop: 49841, Start Num: 68
Candidate Starts for Paphu_87:
(Start: 68 @49638 has 141 MA's), (95, 49773),

Gene: Paraselene_87 Start: 49509, Stop: 49715, Start Num: 67
Candidate Starts for Paraselene_87:
(Start: 67 @49509 has 99 MA's), (95, 49647), (102, 49707),

Gene: Pari_92 Start: 50227, Stop: 50027, Start Num: 67
Candidate Starts for Pari_92:
(Start: 67 @50227 has 99 MA's), (95, 50095),

Gene: Parliament_90 Start: 52239, Stop: 52445, Start Num: 67
Candidate Starts for Parliament_90:
(Start: 67 @52239 has 99 MA's), (95, 52377),

Gene: PascalRango_92 Start: 52074, Stop: 51871, Start Num: 68
Candidate Starts for PascalRango_92:
(Start: 45 @52125 has 12 MA's), (Start: 68 @52074 has 141 MA's),

Gene: PattyP_92 Start: 51679, Stop: 51476, Start Num: 68
Candidate Starts for PattyP_92:
(Start: 68 @51679 has 141 MA's), (95, 51544),

Gene: Payneful_77 Start: 46347, Stop: 46144, Start Num: 68
Candidate Starts for Payneful_77:
(Start: 68 @46347 has 141 MA's), (95, 46212),

Gene: PeaceMeal1_81 Start: 47729, Stop: 47541, Start Num: 64
Candidate Starts for PeaceMeal1_81:
(52, 47762), (Start: 64 @47729 has 37 MA's), (96, 47606),

Gene: Pelly_94 Start: 53346, Stop: 53143, Start Num: 68
Candidate Starts for Pelly_94:
(Start: 68 @53346 has 141 MA's), (95, 53211),

Gene: Pepe_86 Start: 50134, Stop: 49931, Start Num: 68
Candidate Starts for Pepe_86:
(Start: 68 @50134 has 141 MA's), (95, 49999),

Gene: Perplexer_82 Start: 48582, Stop: 48424, Start Num: 74
Candidate Starts for Perplexer_82:
(Start: 60 @48621 has 23 MA's), (Start: 74 @48582 has 8 MA's), (77, 48573), (96, 48486), (98, 48453),

Gene: Perseus_90 Start: 51769, Stop: 51975, Start Num: 67
Candidate Starts for Perseus_90:
(Start: 67 @51769 has 99 MA's), (95, 51907),

Gene: Petersenfast_85 Start: 46730, Stop: 46533, Start Num: 63
Candidate Starts for Petersenfast_85:
(Start: 63 @46730 has 26 MA's), (96, 46601), (102, 46544),

Gene: Peterson_90 Start: 51816, Stop: 51607, Start Num: 67
Candidate Starts for Peterson_90:
(5, 52101), (8, 52062), (9, 52059), (14, 52044), (19, 51996), (22, 51975), (27, 51960), (33, 51915), (36, 51909), (39, 51903), (Start: 67 @51816 has 99 MA's), (76, 51783), (94, 51711), (102, 51615),

Gene: PetiteSangsue_82 Start: 48585, Stop: 48427, Start Num: 74
Candidate Starts for PetiteSangsue_82:
(Start: 60 @48624 has 23 MA's), (Start: 74 @48585 has 8 MA's), (77, 48576), (96, 48489), (98, 48456),

Gene: Petp2012_89 Start: 51326, Stop: 51123, Start Num: 68
Candidate Starts for Petp2012_89:
(Start: 68 @51326 has 141 MA's), (95, 51191),

Gene: Petruchio_88 Start: 48718, Stop: 48515, Start Num: 68
Candidate Starts for Petruchio_88:
(Start: 68 @48718 has 141 MA's), (95, 48583), (102, 48523),

Gene: Phantastic_87 Start: 47341, Stop: 47150, Start Num: 64
Candidate Starts for Phantastic_87:
(7, 47605), (Start: 64 @47341 has 37 MA's), (66, 47335), (85, 47281), (96, 47215),

Gene: PherrisBueller_88 Start: 48812, Stop: 48612, Start Num: 67
Candidate Starts for PherrisBueller_88:
(Start: 67 @48812 has 99 MA's), (95, 48680),

Gene: PhineBark_85 Start: 49455, Stop: 49658, Start Num: 68
Candidate Starts for PhineBark_85:
(Start: 68 @49455 has 141 MA's), (95, 49590),

Gene: Phlei_72 Start: 46175, Stop: 45936, Start Num: 58
Candidate Starts for Phlei_72:
(Start: 58 @46175 has 1 MA's), (95, 46019),

Gene: Phlippers_89 Start: 51409, Stop: 51615, Start Num: 67
Candidate Starts for Phlippers_89:
(Start: 67 @51409 has 99 MA's), (95, 51547), (102, 51607),

Gene: Phoebus_233 Start: 112122, Stop: 111946, Start Num: 67
Candidate Starts for Phoebus_233:
(Start: 59 @112143 has 1 MA's), (Start: 67 @112122 has 99 MA's), (85, 112080), (94, 112053),

Gene: PhrostyMug_94 Start: 52143, Stop: 52349, Start Num: 67
Candidate Starts for PhrostyMug_94:
(Start: 67 @52143 has 99 MA's), (95, 52281),

Gene: Pinto_87 Start: 50214, Stop: 50011, Start Num: 68
Candidate Starts for Pinto_87:
(Start: 68 @50214 has 141 MA's),

Gene: Pippin_93 Start: 50646, Stop: 50852, Start Num: 67
Candidate Starts for Pippin_93:
(Start: 67 @50646 has 99 MA's), (95, 50784),

Gene: Piro94_85 Start: 48506, Stop: 48300, Start Num: 61
Candidate Starts for Piro94_85:
(15, 48704), (Start: 56 @48521 has 4 MA's), (Start: 61 @48506 has 51 MA's), (96, 48368),

Gene: Pistachio_87 Start: 47750, Stop: 47532, Start Num: 64
Candidate Starts for Pistachio_87:
(Start: 54 @47777 has 32 MA's), (Start: 64 @47750 has 37 MA's), (86, 47687), (91, 47669), (96, 47597),

Gene: Pita2_91 Start: 50691, Stop: 50488, Start Num: 68
Candidate Starts for Pita2_91:
(24, 50838), (28, 50826), (31, 50802), (Start: 68 @50691 has 141 MA's), (95, 50556), (102, 50496),

Gene: Pmask_86 Start: 47201, Stop: 46959, Start Num: 54
Candidate Starts for Pmask_86:
(5, 47450), (16, 47366), (20, 47342), (Start: 54 @47201 has 32 MA's), (Start: 61 @47177 has 51 MA's), (93, 47081),

Gene: Pocahontas_85 Start: 47830, Stop: 47630, Start Num: 64
Candidate Starts for Pocahontas_85:
(17, 48019), (Start: 64 @47830 has 37 MA's), (85, 47770), (96, 47704), (98, 47671),

Gene: Polyphemus_80 Start: 44972, Stop: 44730, Start Num: 54
Candidate Starts for Polyphemus_80:
(5, 45221), (16, 45137), (20, 45113), (Start: 54 @44972 has 32 MA's), (Start: 61 @44948 has 51 MA's), (93, 44852), (98, 44768),

Gene: Pomar16_86 Start: 48397, Stop: 48194, Start Num: 60
Candidate Starts for Pomar16_86:
(Start: 60 @48397 has 23 MA's), (77, 48343), (96, 48259),

Gene: Poompha_81 Start: 47730, Stop: 47539, Start Num: 64
Candidate Starts for Poompha_81:
(42, 47796), (Start: 64 @47730 has 37 MA's), (70, 47712), (85, 47673), (96, 47604),

Gene: Popcicle_86 Start: 47830, Stop: 47630, Start Num: 64
Candidate Starts for Popcicle_86:
(17, 48019), (Start: 64 @47830 has 37 MA's), (85, 47770), (96, 47704), (98, 47671),

Gene: Porcelain_236 Start: 107360, Stop: 107184, Start Num: 67
Candidate Starts for Porcelain_236:
(Start: 59 @107381 has 1 MA's), (Start: 67 @107360 has 99 MA's), (85, 107318), (94, 107291),

Gene: Pound_223 Start: 107829, Stop: 107617, Start Num: 59
Candidate Starts for Pound_223:
(Start: 59 @107829 has 1 MA's), (Start: 67 @107808 has 99 MA's), (75, 107784), (78, 107775), (87, 107760), (94, 107724), (95, 107688), (96, 107685), (98, 107652), (99, 107637),

Gene: PowerRanger_85 Start: 50934, Stop: 50731, Start Num: 68
Candidate Starts for PowerRanger_85:
(Start: 68 @50934 has 141 MA's), (95, 50799),

Gene: Priamo_88 Start: 46420, Stop: 46202, Start Num: 61
Candidate Starts for Priamo_88:
(5, 46693), (16, 46609), (20, 46585), (Start: 54 @46444 has 32 MA's), (Start: 61 @46420 has 51 MA's), (93, 46324), (98, 46240),

Gene: ProMouse_92 Start: 49279, Stop: 49485, Start Num: 67
Candidate Starts for ProMouse_92:
(Start: 67 @49279 has 99 MA's), (95, 49417),

Gene: Puppet_90 Start: 51713, Stop: 51510, Start Num: 68
Candidate Starts for Puppet_90:
(Start: 68 @51713 has 141 MA's), (95, 51578),

Gene: Puppy_88 Start: 47820, Stop: 47602, Start Num: 64
Candidate Starts for Puppy_88:
(Start: 54 @47847 has 32 MA's), (Start: 64 @47820 has 37 MA's), (86, 47757), (91, 47739), (96, 47667),

Gene: QTRlifeCrisis_86 Start: 49246, Stop: 49043, Start Num: 68
Candidate Starts for QTRlifeCrisis_86:
(Start: 45 @49297 has 12 MA's), (Start: 68 @49246 has 141 MA's), (95, 49111),

Gene: QuinnKiro_85 Start: 47833, Stop: 47633, Start Num: 64
Candidate Starts for QuinnKiro_85:
(6, 48106), (17, 48022), (Start: 64 @47833 has 37 MA's), (85, 47773), (96, 47707), (98, 47674),

Gene: Quokka_88 Start: 47930, Stop: 47727, Start Num: 60
Candidate Starts for Quokka_88:
(Start: 56 @47945 has 4 MA's), (Start: 60 @47930 has 23 MA's), (77, 47876), (79, 47870), (96, 47792), (98, 47759),

Gene: Raid_89 Start: 51090, Stop: 50890, Start Num: 67
Candidate Starts for Raid_89:
(Start: 67 @51090 has 99 MA's), (95, 50958),

Gene: Rajelicia_89 Start: 52457, Stop: 52257, Start Num: 68
Candidate Starts for Rajelicia_89:
(Start: 68 @52457 has 141 MA's), (95, 52325),

Gene: Rearden_235 Start: 108013, Stop: 107825, Start Num: 67
Candidate Starts for Rearden_235:
(Start: 67 @108013 has 99 MA's), (75, 107989), (85, 107971), (94, 107932), (98, 107860), (102, 107836),

Gene: Rebeuca_85 Start: 49034, Stop: 48798, Start Num: 45
Candidate Starts for Rebeuca_85:
(34, 49067), (Start: 45 @49034 has 12 MA's), (Start: 51 @49019 has 1 MA's), (55, 49010), (77, 48941), (96, 48863), (98, 48830),

Gene: RedRock_86 Start: 49130, Stop: 48909, Start Num: 60
Candidate Starts for RedRock_86:
(Start: 56 @49145 has 4 MA's), (Start: 60 @49130 has 23 MA's), (98, 48944),

Gene: Redno2_226 Start: 106231, Stop: 106055, Start Num: 67
Candidate Starts for Redno2_226:
(Start: 59 @106252 has 1 MA's), (Start: 67 @106231 has 99 MA's), (85, 106189), (94, 106162),

Gene: ResDef_84 Start: 47836, Stop: 47636, Start Num: 64
Candidate Starts for ResDef_84:
(17, 48025), (Start: 64 @47836 has 37 MA's), (85, 47776), (96, 47710), (98, 47677),

Gene: Rhynn_85 Start: 50726, Stop: 50926, Start Num: 68
Candidate Starts for Rhynn_85:
(Start: 68 @50726 has 141 MA's),

Gene: RidgeCB_89 Start: 49216, Stop: 49422, Start Num: 67
Candidate Starts for RidgeCB_89:
(Start: 67 @49216 has 99 MA's), (95, 49354), (102, 49414),

Gene: Rifter_89 Start: 46179, Stop: 45970, Start Num: 61
Candidate Starts for Rifter_89:

(Start: 61 @46179 has 51 MA's), (86, 46119),

Gene: Ringer_90 Start: 51410, Stop: 51210, Start Num: 68
Candidate Starts for Ringer_90:
(Start: 68 @51410 has 141 MA's), (95, 51278),

Gene: Rockstar_75 Start: 45031, Stop: 44831, Start Num: 64
Candidate Starts for Rockstar_75:
(7, 45295), (Start: 64 @45031 has 37 MA's), (66, 45025), (85, 44971), (96, 44905),

Gene: Rohr_92 Start: 51968, Stop: 52177, Start Num: 67
Candidate Starts for Rohr_92:
(Start: 67 @51968 has 99 MA's), (95, 52106),

Gene: Roimos_85 Start: 48032, Stop: 47841, Start Num: 64
Candidate Starts for Roimos_85:
(1, 48521), (2, 48488), (6, 48305), (Start: 64 @48032 has 37 MA's), (85, 47972), (96, 47906),

Gene: Roksolana_89 Start: 46895, Stop: 46686, Start Num: 61
Candidate Starts for Roksolana_89:
(Start: 61 @46895 has 51 MA's), (86, 46835),

Gene: Rubeus_88 Start: 48657, Stop: 48454, Start Num: 68
Candidate Starts for Rubeus_88:
(Start: 68 @48657 has 141 MA's), (95, 48522),

Gene: Rufus_93 Start: 51974, Stop: 51771, Start Num: 68
Candidate Starts for Rufus_93:
(Start: 68 @51974 has 141 MA's), (95, 51839),

Gene: Ruotula_94 Start: 52218, Stop: 52015, Start Num: 68
Candidate Starts for Ruotula_94:
(Start: 68 @52218 has 141 MA's), (95, 52083),

Gene: Rutherferd_91 Start: 50676, Stop: 50882, Start Num: 67
Candidate Starts for Rutherferd_91:
(Start: 67 @50676 has 99 MA's), (95, 50814), (102, 50874),

Gene: STLscum_100 Start: 51894, Stop: 51691, Start Num: 68
Candidate Starts for STLscum_100:
(Start: 68 @51894 has 141 MA's), (95, 51759),

Gene: Sagefire_86 Start: 50112, Stop: 50318, Start Num: 67
Candidate Starts for Sagefire_86:
(Start: 67 @50112 has 99 MA's), (95, 50250),

Gene: Salz_85 Start: 46959, Stop: 46762, Start Num: 63
Candidate Starts for Salz_85:
(Start: 63 @46959 has 26 MA's), (96, 46830), (102, 46773),

Gene: Sandaddy_90 Start: 51546, Stop: 51343, Start Num: 68
Candidate Starts for Sandaddy_90:
(Start: 68 @51546 has 141 MA's), (95, 51411),

Gene: Sanya_85 Start: 50361, Stop: 50158, Start Num: 68
Candidate Starts for Sanya_85:
(Start: 68 @50361 has 141 MA's), (95, 50226),

Gene: SarFire_98 Start: 53353, Stop: 53099, Start Num: 45
Candidate Starts for SarFire_98:
(Start: 45 @53353 has 12 MA's), (Start: 68 @53302 has 141 MA's), (95, 53167),

Gene: Saskia_87 Start: 47205, Stop: 46999, Start Num: 61
Candidate Starts for Saskia_87:
(Start: 56 @47220 has 4 MA's), (Start: 61 @47205 has 51 MA's), (81, 47151), (89, 47127), (96, 47067), (102, 47010),

Gene: SaturnRing_88 Start: 48203, Stop: 47985, Start Num: 64
Candidate Starts for SaturnRing_88:
(Start: 54 @48230 has 32 MA's), (Start: 64 @48203 has 37 MA's), (86, 48140), (91, 48122), (96, 48050),

Gene: Schatzie_227 Start: 109153, Stop: 108977, Start Num: 67
Candidate Starts for Schatzie_227:
(Start: 59 @109174 has 1 MA's), (Start: 67 @109153 has 99 MA's), (85, 109111), (94, 109084),

Gene: Scout_86 Start: 47357, Stop: 47166, Start Num: 64
Candidate Starts for Scout_86:
(1, 47846), (2, 47813), (6, 47630), (Start: 64 @47357 has 37 MA's), (85, 47297), (96, 47231),

Gene: Scowl_90 Start: 50695, Stop: 50898, Start Num: 68
Candidate Starts for Scowl_90:
(Start: 68 @50695 has 141 MA's), (95, 50827),

Gene: Seabiscuit_95 Start: 51387, Stop: 51184, Start Num: 68
Candidate Starts for Seabiscuit_95:
(Start: 68 @51387 has 141 MA's),

Gene: Seanderson_89 Start: 52624, Stop: 52421, Start Num: 68
Candidate Starts for Seanderson_89:
(Start: 68 @52624 has 141 MA's), (95, 52489),

Gene: Serenity_89 Start: 47970, Stop: 47767, Start Num: 60
Candidate Starts for Serenity_89:
(38, 48045), (Start: 56 @47985 has 4 MA's), (Start: 60 @47970 has 23 MA's), (77, 47916), (79, 47910), (96, 47832), (98, 47799),

Gene: Severus_82 Start: 47724, Stop: 47536, Start Num: 64
Candidate Starts for Severus_82:
(52, 47757), (Start: 64 @47724 has 37 MA's), (96, 47601),

Gene: Shaboozey_232 Start: 106458, Stop: 106282, Start Num: 67
Candidate Starts for Shaboozey_232:
(Start: 59 @106479 has 1 MA's), (Start: 67 @106458 has 99 MA's), (85, 106416), (94, 106389),

Gene: Sham4_86 Start: 47045, Stop: 46848, Start Num: 63

Candidate Starts for Sham4_86:
(Start: 63 @47045 has 26 MA's), (96, 46916), (102, 46859),

Gene: Sheen_83 Start: 50900, Stop: 50715, Start Num: 71
Candidate Starts for Sheen_83:
(Start: 71 @50900 has 2 MA's), (87, 50858), (95, 50783),

Gene: ShortQueendom_82 Start: 48241, Stop: 48038, Start Num: 68
Candidate Starts for ShortQueendom_82:
(48, 48289), (Start: 68 @48241 has 141 MA's), (95, 48106),

Gene: Sibs6_95 Start: 49833, Stop: 49630, Start Num: 68
Candidate Starts for Sibs6_95:
(Start: 68 @49833 has 141 MA's), (95, 49698),

Gene: SkiPole_98 Start: 51505, Stop: 51711, Start Num: 67
Candidate Starts for SkiPole_98:
(Start: 67 @51505 has 99 MA's), (95, 51643), (102, 51703),

Gene: Sknot_86 Start: 48365, Stop: 48159, Start Num: 61
Candidate Starts for Sknot_86:
(15, 48563), (Start: 56 @48380 has 4 MA's), (Start: 61 @48365 has 51 MA's), (81, 48311), (96, 48227),

Gene: Slagathor_92 Start: 51592, Stop: 51389, Start Num: 68
Candidate Starts for Slagathor_92:
(Start: 68 @51592 has 141 MA's),

Gene: Smairt_97 Start: 53160, Stop: 53366, Start Num: 67
Candidate Starts for Smairt_97:
(Start: 67 @53160 has 99 MA's), (95, 53298),

Gene: Smeagol_90 Start: 52545, Stop: 52336, Start Num: 67
Candidate Starts for Smeagol_90:
(19, 52725), (22, 52704), (27, 52689), (33, 52644), (36, 52638), (39, 52632), (Start: 67 @52545 has 99 MA's), (76, 52512), (94, 52440), (102, 52344),

Gene: SmellyB_87 Start: 46558, Stop: 46316, Start Num: 54
Candidate Starts for SmellyB_87:
(5, 46807), (16, 46723), (20, 46699), (Start: 54 @46558 has 32 MA's), (Start: 61 @46534 has 51 MA's), (93, 46438), (98, 46354),

Gene: Snape_89 Start: 47838, Stop: 47641, Start Num: 63
Candidate Starts for Snape_89:
(Start: 63 @47838 has 26 MA's), (96, 47709), (102, 47652),

Gene: Snazzy_92 Start: 51835, Stop: 51632, Start Num: 68
Candidate Starts for Snazzy_92:
(Start: 68 @51835 has 141 MA's), (95, 51700),

Gene: Solon_83 Start: 47822, Stop: 48028, Start Num: 67
Candidate Starts for Solon_83:
(Start: 67 @47822 has 99 MA's), (95, 47960), (102, 48020),

Gene: SororFago_85 Start: 48106, Stop: 47903, Start Num: 61
Candidate Starts for SororFago_85:
(Start: 56 @48121 has 4 MA's), (Start: 61 @48106 has 51 MA's), (81, 48055),

Gene: Sorpresa_93 Start: 51552, Stop: 51349, Start Num: 68
Candidate Starts for Sorpresa_93:
(Start: 68 @51552 has 141 MA's), (95, 51417),

Gene: SpikeBT_87 Start: 49792, Stop: 49589, Start Num: 68
Candidate Starts for SpikeBT_87:
(Start: 68 @49792 has 141 MA's), (95, 49657),

Gene: Squee_92 Start: 51943, Stop: 51740, Start Num: 68
Candidate Starts for Squee_92:
(Start: 68 @51943 has 141 MA's), (95, 51808),

Gene: Squint_233 Start: 108166, Stop: 107990, Start Num: 67
Candidate Starts for Squint_233:
(Start: 59 @108187 has 1 MA's), (Start: 67 @108166 has 99 MA's), (85, 108124), (94, 108097),

Gene: StarStuff_86 Start: 48359, Stop: 48156, Start Num: 60
Candidate Starts for StarStuff_86:
(Start: 60 @48359 has 23 MA's), (77, 48305), (96, 48221),

Gene: StewieG_85 Start: 47748, Stop: 47954, Start Num: 67
Candidate Starts for StewieG_85:
(Start: 67 @47748 has 99 MA's), (95, 47886), (102, 47946),

Gene: StrongArm_88 Start: 50693, Stop: 50899, Start Num: 67
Candidate Starts for StrongArm_88:
(Start: 67 @50693 has 99 MA's), (95, 50831),

Gene: Sumter_87 Start: 51154, Stop: 51363, Start Num: 67
Candidate Starts for Sumter_87:
(Start: 67 @51154 has 99 MA's), (95, 51292),

Gene: Sunshine924_93 Start: 49690, Stop: 49896, Start Num: 67
Candidate Starts for Sunshine924_93:
(Start: 67 @49690 has 99 MA's), (95, 49828), (102, 49888),

Gene: SuperAwesome_87 Start: 47240, Stop: 46998, Start Num: 54
Candidate Starts for SuperAwesome_87:
(5, 47489), (16, 47405), (20, 47381), (Start: 54 @47240 has 32 MA's), (Start: 61 @47216 has 51 MA's), (93, 47120),

Gene: SuperCallie99_83 Start: 46597, Stop: 46379, Start Num: 61
Candidate Starts for SuperCallie99_83:
(5, 46870), (16, 46786), (20, 46762), (Start: 54 @46621 has 32 MA's), (Start: 61 @46597 has 51 MA's), (93, 46501), (98, 46417),

Gene: Superphikiman_233 Start: 107294, Stop: 107106, Start Num: 67
Candidate Starts for Superphikiman_233:

(Start: 59 @107315 has 1 MA's), (Start: 67 @107294 has 99 MA's), (85, 107252), (94, 107213), (98, 107141), (102, 107117),

Gene: SwissCheese_95 Start: 51439, Stop: 51236, Start Num: 68
Candidate Starts for SwissCheese_95:
(Start: 68 @51439 has 141 MA's), (95, 51304),

Gene: Switzer_91 Start: 51956, Stop: 51702, Start Num: 45
Candidate Starts for Switzer_91:
(Start: 45 @51956 has 12 MA's), (Start: 68 @51905 has 141 MA's),

Gene: Swole_91 Start: 50909, Stop: 50706, Start Num: 68
Candidate Starts for Swole_91:
(24, 51056), (28, 51044), (31, 51020), (Start: 68 @50909 has 141 MA's), (95, 50774), (102, 50714),

Gene: TNguyen7_88 Start: 48161, Stop: 47943, Start Num: 64
Candidate Starts for TNguyen7_88:
(Start: 54 @48188 has 32 MA's), (Start: 64 @48161 has 37 MA's), (86, 48098), (91, 48080), (96, 48008),

Gene: Target_90 Start: 48713, Stop: 48510, Start Num: 68
Candidate Starts for Target_90:
(Start: 68 @48713 has 141 MA's), (95, 48578), (102, 48518),

Gene: Tasp14_87 Start: 49921, Stop: 50127, Start Num: 67
Candidate Starts for Tasp14_87:
(Start: 67 @49921 has 99 MA's), (95, 50059),

Gene: Temprado_90 Start: 47032, Stop: 46790, Start Num: 54
Candidate Starts for Temprado_90:
(5, 47281), (16, 47197), (20, 47173), (Start: 54 @47032 has 32 MA's), (Start: 61 @47008 has 51 MA's), (93, 46912),

Gene: Teodoridan_93 Start: 50495, Stop: 50698, Start Num: 68
Candidate Starts for Teodoridan_93:
(Start: 68 @50495 has 141 MA's), (95, 50630),

Gene: Terrific_87 Start: 48339, Stop: 48133, Start Num: 61
Candidate Starts for Terrific_87:
(15, 48537), (Start: 56 @48354 has 4 MA's), (Start: 61 @48339 has 51 MA's), (81, 48285), (96, 48201),

Gene: Texage_84 Start: 47834, Stop: 47634, Start Num: 64
Candidate Starts for Texage_84:
(17, 48023), (Start: 64 @47834 has 37 MA's), (85, 47774), (96, 47708), (98, 47675),

Gene: TheloniousMonk_90 Start: 51663, Stop: 51460, Start Num: 68
Candidate Starts for TheloniousMonk_90:
(Start: 68 @51663 has 141 MA's), (95, 51528),

Gene: Thibault_209 Start: 104098, Stop: 103910, Start Num: 67
Candidate Starts for Thibault_209:
(Start: 67 @104098 has 99 MA's), (75, 104074), (85, 104056), (94, 104017), (98, 103945), (102, 103921),

Gene: Thor_98 Start: 52711, Stop: 52457, Start Num: 45
Candidate Starts for Thor_98:
(Start: 45 @52711 has 12 MA's), (Start: 68 @52660 has 141 MA's), (95, 52525),

Gene: ThreeRngTarjay_234 Start: 111335, Stop: 111162, Start Num: 67
Candidate Starts for ThreeRngTarjay_234:
(Start: 59 @111356 has 1 MA's), (Start: 67 @111335 has 99 MA's), (85, 111293), (94, 111266),

Gene: Timothy_89 Start: 47815, Stop: 47618, Start Num: 63
Candidate Starts for Timothy_89:
(Start: 63 @47815 has 26 MA's), (96, 47686), (102, 47629),

Gene: Timshel_82 Start: 50786, Stop: 50517, Start Num: 49
Candidate Starts for Timshel_82:
(47, 50789), (Start: 49 @50786 has 2 MA's), (Start: 67 @50735 has 99 MA's), (84, 50684), (96, 50594),

Gene: TinyTimmy_87 Start: 47544, Stop: 47347, Start Num: 63
Candidate Starts for TinyTimmy_87:
(Start: 63 @47544 has 26 MA's), (96, 47415), (102, 47358),

Gene: TipsytheTRex_85 Start: 47972, Stop: 47769, Start Num: 60
Candidate Starts for TipsytheTRex_85:
(38, 48047), (Start: 56 @47987 has 4 MA's), (Start: 60 @47972 has 23 MA's), (77, 47918), (79, 47912), (96, 47834), (98, 47801),

Gene: Todacoro_86 Start: 47833, Stop: 47633, Start Num: 64
Candidate Starts for Todacoro_86:
(6, 48106), (17, 48022), (Start: 64 @47833 has 37 MA's), (85, 47773), (96, 47707), (98, 47674),

Gene: Tomathan_86 Start: 48437, Stop: 48234, Start Num: 60
Candidate Starts for Tomathan_86:
(Start: 60 @48437 has 23 MA's), (77, 48383), (96, 48299),

Gene: ToneTone_86 Start: 46559, Stop: 46350, Start Num: 61
Candidate Starts for ToneTone_86:
(Start: 61 @46559 has 51 MA's), (86, 46499), (95, 46424),

Gene: Topanga_74 Start: 45508, Stop: 45263, Start Num: 45
Candidate Starts for Topanga_74:
(11, 45685), (Start: 45 @45508 has 12 MA's), (Start: 51 @45493 has 1 MA's), (55, 45484), (77, 45415), (96, 45337), (98, 45304),

Gene: Topgun_89 Start: 49318, Stop: 49524, Start Num: 67
Candidate Starts for Topgun_89:
(Start: 67 @49318 has 99 MA's), (95, 49456), (102, 49516),

Gene: Toro_84 Start: 51563, Stop: 51378, Start Num: 71
Candidate Starts for Toro_84:
(Start: 71 @51563 has 2 MA's), (87, 51521), (95, 51446),

Gene: Tote_86 Start: 48177, Stop: 47974, Start Num: 68
Candidate Starts for Tote_86:

(24, 48324), (28, 48312), (31, 48288), (Start: 68 @48177 has 141 MA's), (95, 48042), (102, 47982),

Gene: Traft412_86 Start: 50830, Stop: 50627, Start Num: 68
Candidate Starts for Traft412_86:
(Start: 68 @50830 has 141 MA's), (95, 50695),

Gene: Travvers_86 Start: 48354, Stop: 48151, Start Num: 60
Candidate Starts for Travvers_86:
(Start: 60 @48354 has 23 MA's), (77, 48300), (96, 48216),

Gene: Treddle_90 Start: 51379, Stop: 51582, Start Num: 68
Candidate Starts for Treddle_90:
(Start: 68 @51379 has 141 MA's), (95, 51514), (102, 51574),

Gene: Tripl3t_91 Start: 53185, Stop: 52982, Start Num: 68
Candidate Starts for Tripl3t_91:
(Start: 68 @53185 has 141 MA's), (95, 53050),

Gene: Trouble_90 Start: 50598, Stop: 50804, Start Num: 67
Candidate Starts for Trouble_90:
(Start: 67 @50598 has 99 MA's), (95, 50736),

Gene: Tucker_89 Start: 46762, Stop: 46553, Start Num: 61
Candidate Starts for Tucker_89:
(Start: 61 @46762 has 51 MA's), (86, 46702), (95, 46627),

Gene: Turj99_86 Start: 50763, Stop: 50560, Start Num: 68
Candidate Starts for Turj99_86:
(Start: 68 @50763 has 141 MA's), (95, 50628),

Gene: Twister_85 Start: 48707, Stop: 48477, Start Num: 51
Candidate Starts for Twister_85:
(11, 48899), (27, 48803), (Start: 45 @48722 has 12 MA's), (Start: 51 @48707 has 1 MA's), (55, 48698), (77, 48629), (96, 48551), (98, 48518),

Gene: TwoPeat_88 Start: 50371, Stop: 50168, Start Num: 68
Candidate Starts for TwoPeat_88:
(24, 50518), (28, 50506), (31, 50482), (Start: 68 @50371 has 141 MA's), (95, 50236), (102, 50176),

Gene: Updawg_87 Start: 48553, Stop: 48347, Start Num: 61
Candidate Starts for Updawg_87:
(15, 48751), (Start: 56 @48568 has 4 MA's), (Start: 61 @48553 has 51 MA's), (81, 48499), (96, 48415),

Gene: VC3_84 Start: 47253, Stop: 47056, Start Num: 60
Candidate Starts for VC3_84:
(Start: 60 @47253 has 23 MA's), (77, 47199), (96, 47121),

Gene: Veracruz_83 Start: 47834, Stop: 47634, Start Num: 64
Candidate Starts for Veracruz_83:
(6, 48107), (17, 48023), (Start: 64 @47834 has 37 MA's), (85, 47774), (96, 47708), (98, 47675),

Gene: Violet_87 Start: 50920, Stop: 51123, Start Num: 68
Candidate Starts for Violet_87:

(Start: 68 @50920 has 141 MA's), (95, 51055), (102, 51115),

Gene: VohminGhazi_87 Start: 46559, Stop: 46317, Start Num: 54
Candidate Starts for VohminGhazi_87:
(5, 46808), (16, 46724), (20, 46700), (Start: 54 @46559 has 32 MA's), (Start: 61 @46535 has 51 MA's), (93, 46439), (98, 46355),

Gene: WalterMcMickey_84 Start: 48722, Stop: 48477, Start Num: 45
Candidate Starts for WalterMcMickey_84:
(11, 48899), (27, 48803), (Start: 45 @48722 has 12 MA's), (Start: 51 @48707 has 1 MA's), (55, 48698), (77, 48629), (96, 48551), (98, 48518),

Gene: Wanda_234 Start: 107541, Stop: 107365, Start Num: 67
Candidate Starts for Wanda_234:
(Start: 59 @107562 has 1 MA's), (Start: 67 @107541 has 99 MA's), (85, 107499), (94, 107472),

Gene: Watermelon_89 Start: 50581, Stop: 50378, Start Num: 68
Candidate Starts for Watermelon_89:
(Start: 68 @50581 has 141 MA's), (95, 50446),

Gene: WeiHuaDA_88 Start: 49575, Stop: 49372, Start Num: 61
Candidate Starts for WeiHuaDA_88:
(21, 49722), (25, 49710), (Start: 56 @49590 has 4 MA's), (Start: 61 @49575 has 51 MA's), (72, 49551), (81, 49524), (89, 49500), (96, 49440),

Gene: Wheeler_96 Start: 53218, Stop: 53015, Start Num: 68
Candidate Starts for Wheeler_96:
(Start: 68 @53218 has 141 MA's), (95, 53083),

Gene: Whitspit_82 Start: 48679, Stop: 48476, Start Num: 68
Candidate Starts for Whitspit_82:
(Start: 68 @48679 has 141 MA's), (95, 48544),

Gene: WideWale_87 Start: 48553, Stop: 48347, Start Num: 61
Candidate Starts for WideWale_87:
(15, 48751), (Start: 56 @48568 has 4 MA's), (Start: 61 @48553 has 51 MA's), (81, 48499), (96, 48415),

Gene: Wiks_88 Start: 46663, Stop: 46421, Start Num: 54
Candidate Starts for Wiks_88:
(5, 46912), (16, 46828), (20, 46804), (Start: 54 @46663 has 32 MA's), (Start: 61 @46639 has 51 MA's), (93, 46543),

Gene: Wile_81 Start: 48650, Stop: 48453, Start Num: 60
Candidate Starts for Wile_81:
(Start: 60 @48650 has 23 MA's), (Start: 74 @48611 has 8 MA's), (77, 48602), (96, 48515), (98, 48482),

Gene: Wilkins_90 Start: 49248, Stop: 49454, Start Num: 67
Candidate Starts for Wilkins_90:
(Start: 67 @49248 has 99 MA's), (95, 49386), (102, 49446),

Gene: Wizard007_82 Start: 48376, Stop: 48179, Start Num: 60
Candidate Starts for Wizard007_82:
(Start: 60 @48376 has 23 MA's), (Start: 74 @48337 has 8 MA's), (77, 48328), (96, 48241), (98, 48208),

Gene: Wolpertinger_88 Start: 48164, Stop: 47967, Start Num: 63
Candidate Starts for Wolpertinger_88:
(Start: 63 @48164 has 26 MA's), (96, 48035), (102, 47978),

Gene: Xiaokay_220 Start: 108420, Stop: 108232, Start Num: 67
Candidate Starts for Xiaokay_220:
(Start: 67 @108420 has 99 MA's), (75, 108396), (85, 108378), (94, 108339), (98, 108267), (102, 108243),

Gene: Yeet_229 Start: 109251, Stop: 109075, Start Num: 67
Candidate Starts for Yeet_229:
(Start: 59 @109272 has 1 MA's), (Start: 67 @109251 has 99 MA's), (85, 109209), (94, 109182),

Gene: Yokurt_88 Start: 46639, Stop: 46421, Start Num: 61
Candidate Starts for Yokurt_88:
(5, 46912), (16, 46828), (20, 46804), (Start: 54 @46663 has 32 MA's), (Start: 61 @46639 has 51 MA's), (93, 46543),

Gene: Zaka_89 Start: 46639, Stop: 46421, Start Num: 61
Candidate Starts for Zaka_89:
(5, 46912), (16, 46828), (20, 46804), (Start: 54 @46663 has 32 MA's), (Start: 61 @46639 has 51 MA's), (93, 46543),

Gene: Zarafa_84 Start: 48022, Stop: 47831, Start Num: 64
Candidate Starts for Zarafa_84:
(1, 48511), (2, 48478), (6, 48295), (Start: 64 @48022 has 37 MA's), (Start: 71 @48001 has 2 MA's), (85, 47962), (96, 47896),

Gene: Zeeculate_91 Start: 53471, Stop: 53271, Start Num: 67
Candidate Starts for Zeeculate_91:
(Start: 67 @53471 has 99 MA's), (95, 53339),

Gene: Zelink_228 Start: 108839, Stop: 108663, Start Num: 67
Candidate Starts for Zelink_228:
(Start: 59 @108860 has 1 MA's), (Start: 67 @108839 has 99 MA's), (85, 108797), (94, 108770),

Gene: Zephyr_92 Start: 51932, Stop: 51723, Start Num: 68
Candidate Starts for Zephyr_92:
(Start: 68 @51932 has 141 MA's), (95, 51791),

Gene: Zulu_90 Start: 47040, Stop: 46798, Start Num: 54
Candidate Starts for Zulu_90:
(5, 47289), (16, 47205), (20, 47181), (Start: 54 @47040 has 32 MA's), (Start: 61 @47016 has 51 MA's), (93, 46920), (98, 46836),