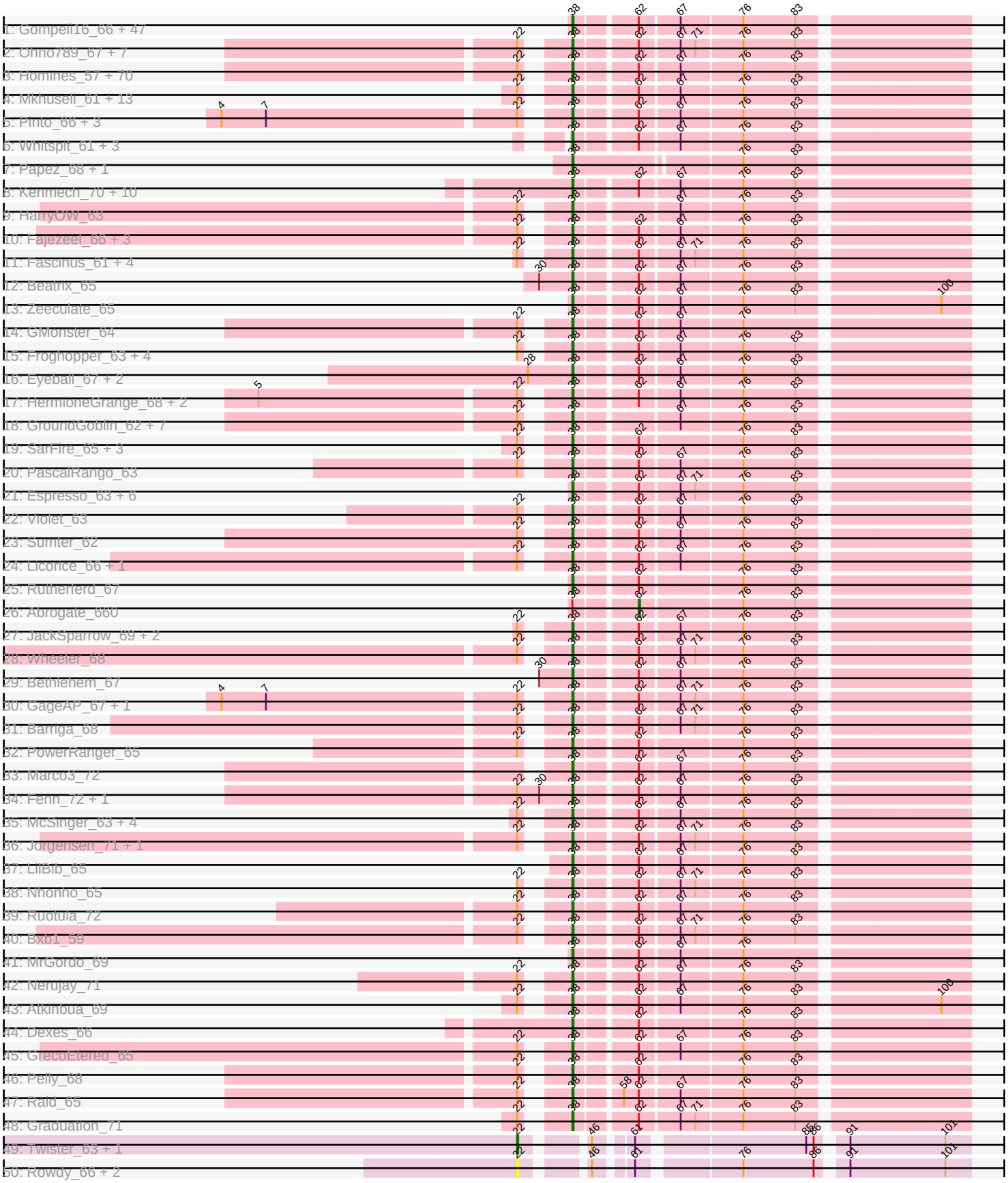
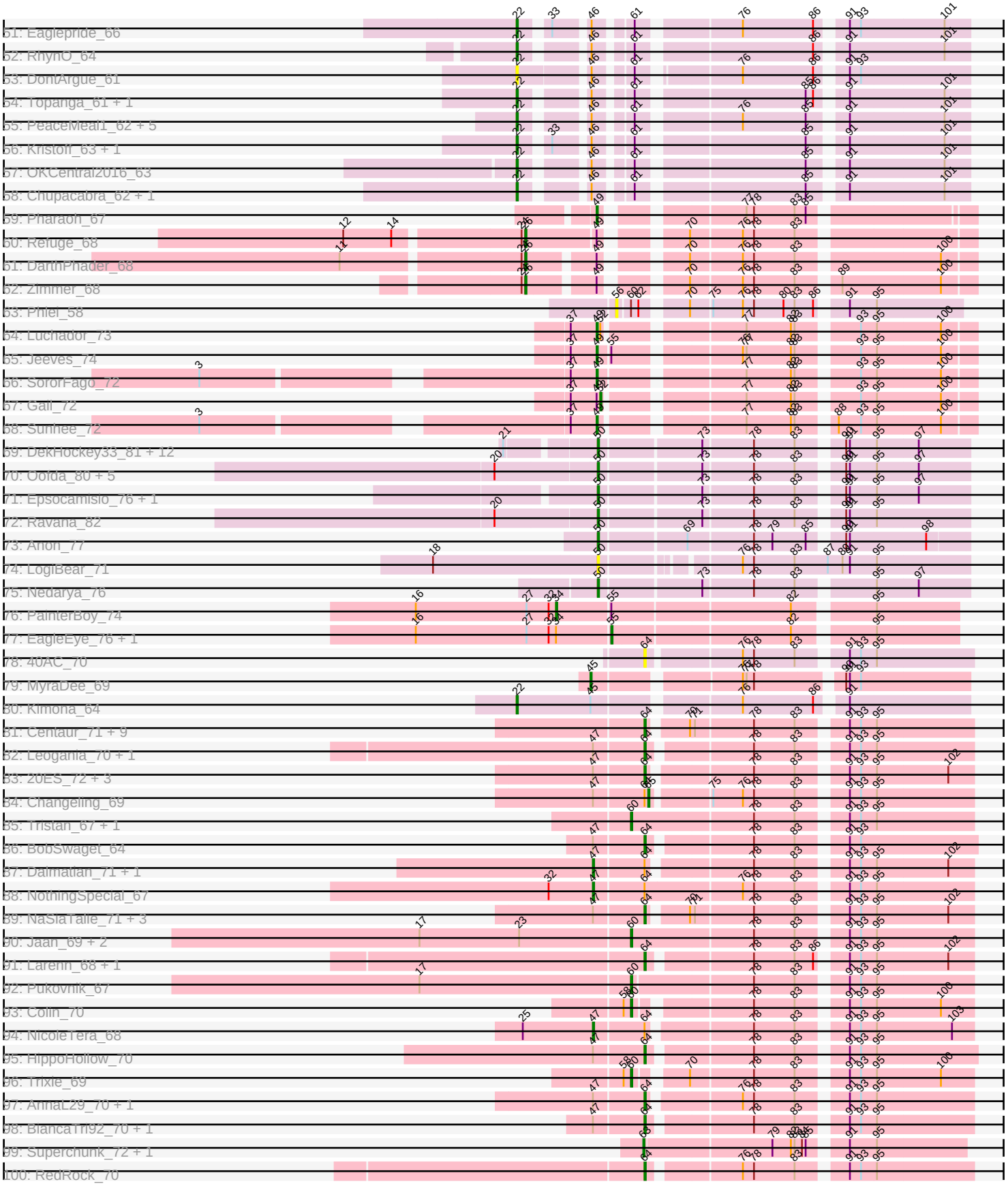
Pham 347060


1: Gompeii16_66 + 47
2: Onno789_67 + 7
3: Homines_57 + 70
4: Mkhuseli_61 + 13
5: Pinto_66 + 3
6: Whitspit_61 + 3
7: Papez_68 + 1
8: Kenmech_70 + 10
9: HarryOW_63
10: Fajezeel_66 + 3
11: Fascinus_61 + 4
12: Beatrix_65
13: Zeeculate_65
14: GMonster_64
15: Froghopper_63 + 4
16: Eyeball_67 + 2
17: HermioneGrange_68 + 2
18: GroundGoblin_62 + 7
19: SarFire_65 + 3
20: PascalRango_63
21: Espresso_63 + 6
22: Violet_63
23: Sumter_62
24: Licorice_66 + 1
25: Ruthenerd_67
26: Abrogate_660
27: JackSparrow_69 + 2
28: Wheeler_68
29: Bethlehem_67
30: GageAP_67 + 1
31: Barriga_68
32: PowerRanger_65
33: Marco3_72
34: Fenn_72 + 1
35: McSinger_63 + 4
36: Jorgensen_71 + 1
37: LilBib_65
38: Nhonho_65
39: Ruotula_72
40: Bxb1_59
41: MrGordo_69
42: Nerujay_71
43: Atkinbua_69
44: Dexes_66
45: GrecoEtereo_65
46: Pelly_68
47: Raid_65
48: Graduation_71
49: Twister_63 + 1
50: Rowdy_66 + 2

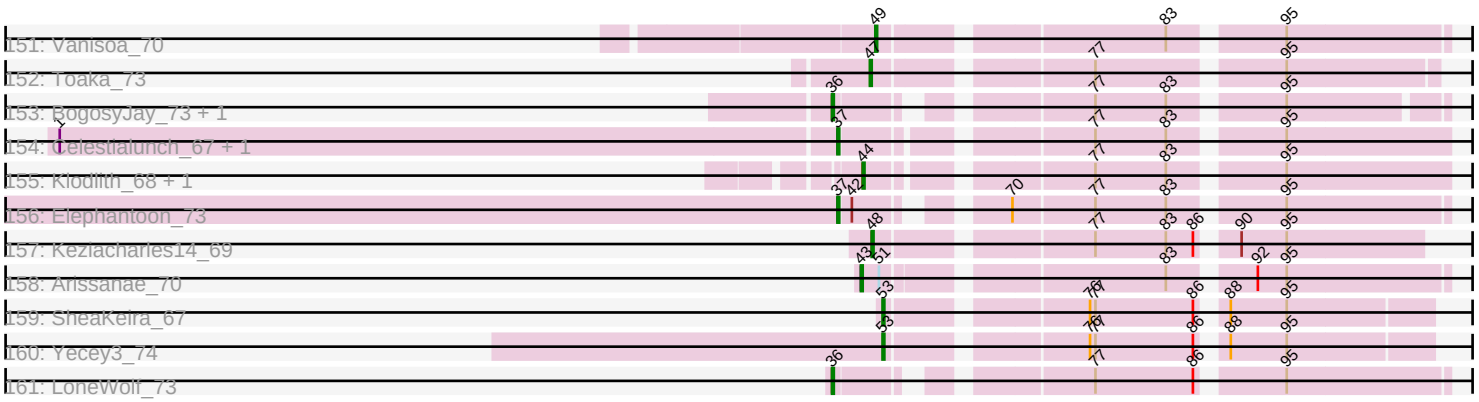
Pham 347060


51: Eaglepride_66
52: RhynO_64
53: DontArgue_61
54: Topanga_61 + 1
55: PeaceMeal1_62 + 5
56: Kristoff_63 + 1
57: OKCentral2016_63
58: Chupacabra_62 + 1
59: Pharaoh_67
60: Refuge_68
61: DarthPhader_68
62: Zimmer_68
63: Phiel_58
64: Luchador_73
65: Jeeves_74
66: SororFago_72
67: Gail_72
68: Sunhee_72
69: DekHockey33_81 + 12
70: Oofda_80 + 5
71: Epsocamisio_76 + 1
72: Ravana_82
73: Anon_77
74: LogiBear_71
75: Nedarya_76
76: PainterBoy_74
77: EagleEye_76 + 1
78: 40AC_70
79: MyraDee_69
80: Kimona_64
81: Centaur_71 + 9
82: Leogania_70 + 1
83: 20ES_72 + 3
84: Changeling_69
85: Tristan_67 + 1
86: BobSwaget_64
87: Dalmatian_71 + 1
88: NothingSpecial_67
89: NaSiaTalie_71 + 3
90: Jaan_69 + 2
91: Larenn_68 + 1
92: Pukovnik_67
93: Colin_70
94: NicoleTera_68
95: HippoHollow_70
96: Trixie_69
97: AnnaL29_70 + 1
98: BiancaTri92_70 + 1
99: Superchunk_72 + 1
100: RedRock_70

Pham 347060


101: Rachaly_67 + 1
102: TarsusIV_68
103: VA6_70 + 3
104: Prudy_67
105: XianYue_66
106: DeerParkTS_67
107: WeiHuaDA_71 + 1
108: Lokk_65
109: Anselm_72
110: Che12_74
111: Odin_71
112: SwimSquare_76
113: Trooper_70
114: FatCactus_58
115: Anthony_63
116: Kinmap_72
117: Chargerpower_67
118: Popcicle_67 + 14
119: Pawn_70
120: Hellosoles_69 + 6
121: JeppNRM_72 + 8
122: GingkoMaracino_72
123: Ollie_72 + 44
124: Chiqui_62 + 1
125: Phantastic_69
126: HelDan_67 + 10
127: Bugatti_70 + 6
128: Jobu08_68 + 1
129: KADY_69 + 4
130: MK4_67 + 5
131: Maniac_71 + 6
132: B1_59
133: BabyRay_68 + 1
134: TNguyen7_68 + 1
135: Reba_71 + 1
136: Marchesa_65
137: Bluefalcon_61 + 4
138: Thela_64
139: Cuco_64
140: Coog_62 + 1
141: Imbriano_73 + 15
142: Blinn1_75
143: DelvinSonDorr_68
144: FlyCatcher_70 + 1
145: Sheen_69
146: Phillis_77 + 1
147: Holex_73 + 29
148: DreamTeam1_67
149: CogOmlette_70 + 4
150: Darrell_74

Pham 347060


151: Vanisoa_70
152: Toaka_73
153: BogosyJay_73 + 1
154: Celestialunch_67 + 1
155: Kiodilm_68 + 1
156: Elephantoon_73
157: Keziacharles14_69
158: Anissanae_70
159: SheaKeira_67
160: Yecey3_74
161: LoneWolf_73

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 347060 Report

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

Pham number 347060 has 581 members, 43 are drafts.

Phages represented in each track:
• Track 1 : Gompeii16_66, Peterson_69, PacerPaul_66, Bircsak_66, Target_69, Sunshine924_71, STLscum_75, A6_58, Alsfro_72, Paraselene_67, Pepe_64, Tasp14_69, Blesser_62, Dulcie_66, Rhynn_62, Sagefire_67, Adahisdi_65, Marsha_66, Hami1_61, Agaliana_61, Perseus_64, Lamina13_69, Aeneas_69, ILeeKay_68, Makemake_72, EnzoK_66, Smeagol_68, Doom_63, ChristmasHams_60, Squee_69, BigPaolini_62, BillKnuckles_63, Switzer_67, Manatee_66, Scowl_67, Carlyle_67, Big3_66, Smairt_68, Gachnar_66, SkiPole_74, BK1_58, PhrostyMug_66, Francis47_65, Zeuska_71, Paphu_65, KBG_67, Mule_63, Traft412_69
• Track 2 : Ohno789_67, SpikeBT_64, Altman_68, BPBiebs31_69, Bruns_68, Applejack_66, Ashballer_69, Kanely_67
• Track 3 : Homines_57, Swole_67, DD5_66, MilleFeuille_68, Petp2012_69, Dynamix_67, Corvo_66, StrongArm_64, Briton15_70, MaryBeth_63, Jerm2_67, SwissCheese_69, CartmannCramer_65, Hope4ever_67, HanShotFirst_67, Arcanine_68, Tote_62, DrFeelGood_64, TwoPeat_67, DreamCatcher_68, Rufus_68, Gwendoluna_70, PSullivan_64, McGuire_66, ProMouse_70, NEHalo_63, Marcell_62, Moose_67, Chanagan_59, Lopton_66, PinkPlastic_65, Pita2_67, Mryolo_64, Ringer_69, MetalQZJ_62, ConceptII_70, PattyP_68, Zephyr_67, JuliaChild_67, RidgeCB_66, Burton_67, Lockley_65, Blue_66, Sibs6_68, Slagathor_68, Anglerfish_66, Sandaddy_63, BluSpix_64, Pippin_65, Rohr_67, Ichabod_70, BeesKnees_68, Arlo_64, IgnatiusPatJac_66, Molly_67, Killigrew_64, U2_62, Museum_68, Rajelicia_66, Bexan_63, Kugel_70, Euphoria_65, Bob3_67, TheloniousMonk_70, Sorpresa_64, QTRlifeCrisis_67, Ciao_63, Forsytheast_67, Magnito_67, Rubeus_65, BaconJack_71
• Track 4 : Mkhuseli_61, Monet_68, Iqorha_61, Wilkins_64, Topgun_63, JC27_70, Fushigi_61, Oogway_64, Marge_62, Inyanga_61, Edtherson_64, Magnar_65, LunarLander_65, Norz_65
• Track 5 : Pinto_66, StewieG_59, Petruchio_68, Kykar_67
• Track 6 : Whitspit_61, KSSJEB_65, Lesedi_62, Trouble_66
• Track 7 : Papez_68, Alvin_65
• Track 8 : Kenmech_70, Levia_63, BarrowTuph_67, PhineBark_65, Abbyshoes_68, Dussy_67, Marchy_59, Teodoridan_65, Payneful_63, Ajay_65, Blackflame_61
• Track 9 : HarryOW_63
• Track 10 : Fajezeel_66, Acme_67, Watermelon_65, Greg_66
• Track 11 : Fascinus_61, Maroc7_65, Phlippers_61, Solon_64, Bigfoot_59
• Track 12 : Beatrix_65
• Track 13 : Zeeculate_65

• Track 14 : GMonster_64
• Track 15 : Froghopper_63, Dreamboat_68, PherrisBueller_67, Jasper_67, Pari_70
• Track 16 : Eyeball_67, Bones_64, Puppet_64
• Track 17 : HermioneGrange_68, MPlant7149_66, BigMau_68
• Track 18 : GroundGoblin_62, DirtDevil_63, Aldrich_62, Turj99_64, KikiBouba_64, Hermia_63, CatBus_61, Noxious_64
• Track 19 : SarFire_65, Gyzlar_61, Thor_65, KyMonks1A_70
• Track 20 : PascalRango_63
• Track 21 : Espresso_63, Gandalf20_68, Tripl3t_70, Niza_68, Michley_70, Parliament_67, Cueylyss_65
• Track 22 : Violet_63
• Track 23 : Sumter_62
• Track 24 : Licorice_66, Buttons_62
• Track 25 : Rutherferd_67
• Track 26 : Abrogate_660
• Track 27 : JackSparrow_69, CactusRose_67, Crispicous1_63
• Track 28 : Wheeler_68
• Track 29 : Bethlehem_67
• Track 30 : GageAP_67, AFIS_62
• Track 31 : Barriga_68
• Track 32 : PowerRanger_65
• Track 33 : Marco3_72
• Track 34 : Fenn_72, Naira_71
• Track 35 : McSinger_63, Bigchungi_64, Sanya_64, ShortQueendom_59, Snazzy_63
• Track 36 : Jorgensen_71, Treddle_66
• Track 37 : LilBib_65
• Track 38 : Nhonho_65
• Track 39 : Ruotula_72
• Track 40 : Bxb1_59
• Track 41 : MrGordo_69
• Track 42 : Nerujay_71
• Track 43 : Atkinbua_69
• Track 44 : Dexes_66
• Track 45 : GrecoEtereo_65
• Track 46 : Pelly_68
• Track 47 : Raid_65
• Track 48 : Graduation_71
• Track 49 : Twister_63, WalterMcMickey_63
• Track 50 : Rowdy_66, Shapes_66, DustyMartin_66
• Track 51 : Eaglepride_66
• Track 52 : RhynO_64
• Track 53 : DontArgue_61
• Track 54 : Topanga_61, Edison31_61
• Track 55 : PeaceMeal1_62, Severus_62, Drake94_62, KittenMittens_61, Poompha_61, Trike_61
• Track 56 : Kristoff_63, Rebeuca_65
• Track 57 : OKCentral2016_63
• Track 58 : Chupacabra_62, Goose_65
• Track 59 : Pharaoh_67
• Track 60 : Refuge_68
• Track 61 : DarthPhader_68
• Track 62 : Zimmer_68
• Track 63 : Phlei_58

• Track 64 : Luchador_73
• Track 65 : Jeeves_74
• Track 66 : SororFago_72
• Track 67 : Gail_72
• Track 68 : Sunhee_72
• Track 69 : DekHockey33_81, Switzerland_79, Anaysia_80, Boohoo_80, LastResort_78, Rosalind_78, Battleship_82, ReMo_78, KatherineG_80, Looper_79, Nebulosus_77, ShayRa_80, MinecraftSteve_80
• Track 70 : Oofda_80, Remus_81, Strosahl_81, Waits_80, Soups_80, Warrior24_81
• Track 71 : Epsocamisio_76, JSwag_79
• Track 72 : Ravana_82
• Track 73 : Anon_77
• Track 74 : LogiBear_71
• Track 75 : Nedarya_76
• Track 76 : PainterBoy_74
• Track 77 : EagleEye_76, Lucyedi_75
• Track 78 : 40AC_70
• Track 79 : MyraDee_69
• Track 80 : Kimona_64
• Track 81 : Centaur_71, WideWale_71, Gratitude_70, Terrific_71, Equemioh13_70, Drake55_72, Baehexic_69, Piro94_70, HarryHoudini_71, Updawg_71
• Track 82 : Leogania_70, LionsBait_70
• Track 83 : 20ES_72, First_0071, CRB1_72, LadyBird_74
• Track 84 : Changeling_69
• Track 85 : Tristan_67, Landor_69
• Track 86 : BobSwaget_64
• Track 87 : Dalmatian_71, DudeLittle_69
• Track 88 : NothingSpecial_67
• Track 89 : NaSiaTalie_71, MiculUcigas_71, Flare16_71, Sknot_71
• Track 90 : Jaan_69, IronMan_68, Phaded_66
• Track 91 : Larenn_68, Malec_69
• Track 92 : Pukovnik_67
• Track 93 : Colin_70
• Track 94 : NicoleTera_68
• Track 95 : HippoHollow_70
• Track 96 : Trixie_69
• Track 97 : AnnaL29_70, Loser_72
• Track 98 : BiancaTri92_70, Acolyte_62
• Track 99 : Superchunk_72, Caraxes_72
• Track 100 : RedRock_70
• Track 101 : Rachaly_67, Miko_65
• Track 102 : TarsusIV_68
• Track 103 : VA6_70, AN3_72, Deloris_70, BengiVuitton_70
• Track 104 : Prudy_67
• Track 105 : XianYue_66
• Track 106 : DeerParkTS_67
• Track 107 : WeiHuaDA_71, Kalpine_70
• Track 108 : Lokk_65
• Track 109 : Anselm_72
• Track 110 : Che12_74
• Track 111 : Odin_71
• Track 112 : SwirlSquare_76
• Track 113 : Trooper_70

• Track 114 : FatCactus_58
• Track 115 : Anthony_63
• Track 116 : Kinmap_72
• Track 117 : Chargerpower_67
• Track 118 : Popcicle_67, QuinnKiro_66, Veracruz_64, Norbert_63, Hookmount_67, Caviar_67, Panamaxus_65, Lambert1_67, Todacoro_67, EtoileNova_65, Pocahontas_66, Texage_65, Noella_67, ResDef_65, Margo_67
• Track 119 : Pawn_70
• Track 120 : Heliosoles_69, Kalnoky_72, Groupthink_72, Calvinny_71, Marius_72, Zetzy_69, PurpleHaze_71
• Track 121 : JeppNRM_72, ClownCar_71, PhishRPhriends_68, ACFishhook_69, Gemma_69, HaveUMetTed_72, OlanP_70, Kalb97_72, Manu_71
• Track 122 : GingkoMaracino_72
• Track 123 : Ollie_72, MoneyMay_71, EpicPhail_73, Taurus_73, AgronaGT15_69, Phoxy_72, Vix_68, Rummer_71, Aglet_73, Spike509_72, Lowa_72, AugsMagnumOpus_75, Grub_70, Cullens_72, Beauxregard13_71, Soshari_74, Lilith_70, Gwennie_72, Penny1_72, Hercules11_72, Watson_71, Malinsilva_74, MarQuardt_72, Wooldri_74, LBerry_73, SoYo_69, JenCasNa_73, BreSam8_72, Methuselah_65, Marie_70, Pembroke_72, LugYA_75, DaHudson_71, StepMih_71, PGHhamlin_74, PotatoSplit_73, Anubis_75, Microwolf_68, Sabinator_70, Fernando_72, Colbster_68, MuchMore_75, Farber_72, Grum1_71, P28Green_72
• Track 124 : Chiqui_62, BabyJohn_62
• Track 125 : Phantastic_69
• Track 126 : HelDan_67, Roimos_65, Goose1X_65, Fred313_65, Kachowdy_68, Zarafa_65, Heathen_67, Shep_65, DropBear_68, Scout_66, Goose1D_59
• Track 127 : Bugatti_70, Clammy_69, Giroux_70, Idleandcovert_68, SaturnRing_67, Pistachio_67, BlueBird_70
• Track 128 : Jobu08_68, SoilDragon_71
• Track 129 : KADY_69, Louie6_71, Misomonster_73, BuzzBuzz_66, TinyPebbles_71
• Track 130 : MK4_67, Isca_65, MA5_67, Rockstar_66, JF4_65, JF2_65
• Track 131 : Mainiac_71, Sabia_70, Dieselweasel_72, JHC117_68, Tiffany_71, MadMarie_70, Daishi_71
• Track 132 : B1_59
• Track 133 : BabyRay_68, Cat_62
• Track 134 : TNguyen7_68, Puppy_68
• Track 135 : Reba_71, Phranny_72
• Track 136 : Marchesa_65
• Track 137 : Bluefalcon_61, Archetta_63, Ghoulboy_65, Zolita_64, SydNat_65
• Track 138 : Theia_64
• Track 139 : Cuco_64
• Track 140 : Coog_62, Midas2_62
• Track 141 : Imbriano_73, SuperAwesome_71, Gladiator_69, Cookiedough_71, Polyphemus_73, Neeharika16_70, Priamo_73, Pmask_70, Isiphiwo_69, BABullseye_64, Newrala_71, Dorothea_71, Jordennis_70, McFly_71, JewelBug_71, SuperCallie99_68
• Track 142 : Blinn1_75
• Track 143 : DelvinSonDorr_68
• Track 144 : FlyCatcher_70, Toro_68
• Track 145 : Sheen_69
• Track 146 : Phillis_77, NearlyHeadless_81
• Track 147 : Holex_73, Fayely_71, Myxus_73, Ayanochan_70, Priya_71, Sachima_73, Catalina_75, ExplosioNervosa_71, EdogawaKiddo_73, Aliter_74, Pioneer_73, Phonnegut_73, Conquerage_71, Alma_71, Tubs_73, HortumSL17_74,

PackMan_72, Jiawan_73, EmyBug_70, Spouty_71, Qobbit_71, Phaeder_73, RyeScarlet_73, Onglai_72, Scherzo_72, Beemo_73, Ugenie5_68, Lilleskat_73, Hanray_73, Eidsmoe_71
• Track 148 : DreamTeam1_67
• Track 149 : CogOmlette_70, Bellris_72, Rahalelujah_72, Minispark_70, WorldCup_70
• Track 150 : Darrell_74
• Track 151 : Vanisoa_70
• Track 152 : Toaka_73
• Track 153 : BogosyJay_73, Maminiaina_73
• Track 154 : Celestialunch_67, MegTheThird_67
• Track 155 : Klodlith_68, Charm_67
• Track 156 : Elephantoon_73
• Track 157 : Keziacharles14_69
• Track 158 : Arissanae_70
• Track 159 : SheaKeira_67
• Track 160 : Yecey3_74
• Track 161 : LoneWolf_73

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

The start number called the most often in the published annotations is 38, it was called in 228 of the 538 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A6_58, AFIS_62, Abbyshoes_68, Acme_67, Adahisdi_65, Aeneas_69, Agaliana_61, Ajay_65, Aldrich_62, Alsfro_72, Altman_68, Alvin_65, Anglerfish_66, Applejack_66, Arcanine_68, Arlo_64, Ashballer_69, Atkinbua_69, BK1_58, BPBiebs31_69, BaconJack_71, Barriga_68, BarrowTuph_67, Beatrix_65, BeesKnees_68, Bethlehem_67, Bexan_63, Big3_66, BigMau_68, BigPaolini_62, Bigchungi_64, Bigfoot_59, BillKnuckles_63, Bircsak_66, Blackflame_61, Blesser_62, BluSpix_64, Blue_66, Bob3_67, Bones_64, Briton15_70, Bruns_68, Burton_67, Buttons_62, Bxb1_59, CactusRose_67, Carlyle_67, CartmannCramer_65, CatBus_61, Chanagan_59, ChristmasHams_60, Ciao_63, ConceptII_70, Corvo_66, Crispicous1_63, Cueylyss_65, DD5_66, Dexes_66, DirtDevil_63, Doom_63, DrFeelGood_64, DreamCatcher_68, Dreamboat_68, Dulcie_66, Dussy_67, Dynamix_67, Edtherson_64, EnzoK_66, Espresso_63, Euphoria_65, Eyeball_67, Fajezeel_66, Fascinus_61, Fenn_72, Forsytheast_67, Francis47_65, Froghopper_63, Fushigi_61, GMonster_64, Gachnar_66, GageAP_67, Gandalf20_68, Gompeii16_66, Graduation_71, GrecoEtereo_65, Greg_66, GroundGoblin_62, Gwendoluna_70, Gyzlar_61, Hami1_61, HanShotFirst_67, HarryOW_63, Hermia_63, HermioneGrange_68, Homines_57, Hope4ever_67, ILeeKay_68, Ichabod_70, IgnatiusPatJac_66, Inyanga_61, Iqorha_61, JC27_70, JackSparrow_69, Jasper_67, Jerm2_67, Jorgensen_71, JuliaChild_67, KBG_67, KSSJEB_65, Kanely_67, Kenmech_70, KikiBouba_64, Killigrew_64, Kugel_70, KyMonks1A_70, Kykar_67, Lamina13_69, Lesedi_62, Levia_63, Licorice_66, LilBib_65, Lockley_65, Lopton_66, LunarLander_65, MPlant7149_66, Magnar_65, Magnito_67, Makemake_72, Manatee_66, Marcell_62, Marchy_59, Marco3_72, Marge_62, Maroc7_65, Marsha_66, MaryBeth_63, McGuire_66, McSinger_63, MetalQZJ_62, Michley_70, MilleFeuille_68, Mkhuseli_61, Molly_67, Monet_68, Moose_67, MrGordo_69,

Mryolo_64, Mule_63, Museum_68, NEHalo_63, Naira_71, Nerujay_71, Nhonho_65, Niza_68, Norz_65, Noxious_64, Ohno789_67, Oogway_64, PSullivan_64, PacerPaul_66, Papez_68, Paphu_65, Paraselene_67, Pari_70, Parliament_67, PascalRango_63, PattyP_68, Payneful_63, Pelly_68, Pepe_64, Perseus_64, Peterson_69, Petp2012_69, Petruchio_68, PherrisBueller_67, PhineBark_65, Phlippers_61, PhrostyMug_66, PinkPlastic_65, Pinto_66, Pippin_65, Pita2_67, PowerRanger_65, ProMouse_70, Puppet_64, QTRlifeCrisis_67, Raid_65, Rajelicia_66, Rhynn_62, RidgeCB_66, Ringer_69, Rohr_67, Rubeus_65, Rufus_68, Ruotula_72, Rutherferd_67, STLscum_75, Sagefire_67, Sandaddy_63, Sanya_64, SarFire_65, Scowl_67, ShortQueendom_59, Sibs6_68, SkiPole_74, Slagathor_68, Smairt_68, Smeagol_68, Snazzy_63, Solon_64, Sorpresa_64, SpikeBT_64, Squee_69, StewieG_59, StrongArm_64, Sumter_62, Sunshine924_71, SwissCheese_69, Switzer_67, Swole_67, Target_69, Tasp14_69, Teodoridan_65, TheloniousMonk_70, Thor_65, Topgun_63, Tote_62, Traft412_69, Treddle_66, Tripl3t_70, Trouble_66, Turj99_64, TwoPeat_67, U2_62, Violet_63, Watermelon_65, Wheeler_68, Whitspit_61, Wilkins_64, Zeeculate_65, Zephyr_67, Zeuska_71,

Genes that have the "Most Annotated" start but do not call it:
• Abrogate_660,

Genes that do not have the "Most Annotated" start:
• 20ES_72, 40AC_70, ACFishhook_69, AN3_72, Acolyte_62, Aglet_73, AgronaGT15_69, Aliter_74, Alma_71, Anaysia_80, AnnaL29_70, Anon_77, Anselm_72, Anthony_63, Anubis_75, Archetta_63, Arissanae_70, AugsMagnumOpus_75, Ayanochan_70, B1_59, BABullseye_64, BabyJohn_62, BabyRay_68, Baehexic_69, Battleship_82, Beauxregard13_71, Beemo_73, Bellris_72, BengiVuitton_70, BiancaTri92_70, Blinn1_75, BlueBird_70, Bluefalcon_61, BobSwaget_64, BogosyJay_73, Boohoo_80, BreSam8_72, Bugatti_70, BuzzBuzz_66, CRB1_72, Calvinny_71, Caraxes_72, Cat_62, Catalina_75, Caviar_67, Celestialunch_67, Centaur_71, Changeling_69, Chargerpower_67, Charm_67, Che12_74, Chiqui_62, Chupacabra_62, Clammy_69, ClownCar_71, CogOmlette_70, Colbster_68, Colin_70, Conquerage_71, Coog_62, Cookiedough_71, Cuco_64, Cullens_72, DaHudson_71, Daishi_71, Dalmatian_71, Darrell_74, DarthPhader_68, DeerParkTS_67, DekHockey33_81, Deloris_70, DelvinSonDorr_68, Dieselweasel_72, DontArgue_61, Dorothea_71, Drake55_72, Drake94_62, DreamTeam1_67, DropBear_68, DudeLittle_69, DustyMartin_66, EagleEye_76, Eaglepride_66, Edison31_61, EdogawaKiddo_73, Eidsmoe_71, Elephantoon_73, EmyBug_70, EpicPhail_73, Epsocamisio_76, Equemioh13_70, EtoileNova_65, ExplosioNervosa_71, Farber_72, FatCactus_58, Fayely_71, Fernando_72, First_0071, Flare16_71, FlyCatcher_70, Fred313_65, Gail_72, Gemma_69, Ghoulboy_65, GingkoMaracino_72, Giroux_70, Gladiator_69, Goose1D_59, Goose1X_65, Goose_65, Gratitude_70, Groupthink_72, Grub_70, Grum1_71, Gwennie_72, Hanray_73, HarryHoudini_71, HaveUMetTed_72, Heathen_67, HelDan_67, Heliosoles_69, Hercules11_72, HippoHollow_70, Holex_73, Hookmount_67, HortumSL17_74, Idleandcovert_68, Imbriano_73, IronMan_68, Isca_65, Isiphiwo_69, JF2_65, JF4_65, JHC117_68, JSwag_79, Jaan_69, Jeeves_74, JenCasNa_73, JeppNRM_72, JewelBug_71, Jiawan_73, Jobu08_68, Jordennis_70, KADY_69, Kachowdy_68, Kalb97_72, Kalnoky_72, Kalpine_70, KatherineG_80, Keziacharles14_69, Kimona_64, Kinmap_72, KittenMittens_61, Klodlith_68, Kristoff_63, LBerry_73, LadyBird_74, Lambert1_67, Landor_69, Larenn_68, LastResort_78, Leogania_70, Lilith_70, Lilleskat_73, LionsBait_70, LogiBear_71, Lokk_65, LoneWolf_73, Looper_79, Loser_72, Louie6_71, Lowa_72, Luchador_73, Lucyedi_75, LugYA_75, MA5_67, MK4_67, MadMarie_70, Mainiac_71,

Malec_69, Malinsilva_74, Maminiaina_73, Manu_71, MarQuardt_72, Marchesa_65, Margo_67, Marie_70, Marius_72, McFly_71, MegTheThird_67, Methuselah_65, Microwolf_68, MiculUcigas_71, Midas2_62, Miko_65, MinecraftSteve_80, Minispark_70, Misomonster_73, MoneyMay_71, MuchMore_75, MyraDee_69, Myxus_73, NaSiaTalie_71, NearlyHeadless_81, Nebulosus_77, Nedarya_76, Neeharika16_70, Newrala_71, NicoleTera_68, Noella_67, Norbert_63, NothingSpecial_67, OKCentral2016_63, Odin_71, OlanP_70, Ollie_72, Onglai_72, Oofda_80, P28Green_72, PGHhamlin_74, PackMan_72, PainterBoy_74, Panamaxus_65, Pawn_70, PeaceMeal1_62, Pembroke_72, Penny1_72, Phaded_66, Phaeder_73, Phantastic_69, Pharaoh_67, Phillis_77, PhishRPhriends_68, Phlei_58, Phonnegut_73, Phoxy_72, Phranny_72, Pioneer_73, Piro94_70, Pistachio_67, Pmask_70, Pocahontas_66, Polyphemus_73, Poompha_61, Popcicle_67, PotatoSplit_73, Priamo_73, Priya_71, Prudy_67, Pukovnik_67, Puppy_68, PurpleHaze_71, Qobbit_71, QuinnKiro_66, Rachaly_67, Rahalelujah_72, Ravana_82, ReMo_78, Reba_71, Rebeuca_65, RedRock_70, Refuge_68, Remus_81, ResDef_65, RhynO_64, Rockstar_66, Roimos_65, Rosalind_78, Rowdy_66, Rummer_71, RyeScarlet_73, Sabia_70, Sabinator_70, Sachima_73, SaturnRing_67, Scherzo_72, Scout_66, Severus_62, Shapes_66, ShayRa_80, SheaKeira_67, Sheen_69, Shep_65, Sknot_71, SoYo_69, SoilDragon_71, SororFago_72, Soshari_74, Soups_80, Spike509_72, Spouty_71, StepMih_71, Strosahl_81, Sunhee_72, SuperAwesome_71, SuperCallie99_68, Superchunk_72, SwirlSquare_76, Switzerland_79, SydNat_65, TNguyen7_68, TarsusIV_68, Taurus_73, Terrific_71, Texage_65, Theia_64, Tiffany_71, TinyPebbles_71, Toaka_73, Todacoro_67, Topanga_61, Toro_68, Trike_61, Tristan_67, Trixie_69, Trooper_70, Tubs_73, Twister_63, Ugenie5_68, Updawg_71, VA6_70, Vanisoa_70, Veracruz_64, Vix_68, Waits_80, WalterMcMickey_63, Warrior24_81, Watson_71, WeiHuaDA_71, WideWale_71, Wooldri_74, WorldCup_70, XianYue_66, Yecey3_74, Zarafa_65, Zetzy_69, Zimmer_68, Zolita_64,

Summary by start number:

Start 22:
• Found in 302 of 581 (52.0%) of genes in pham
• Manual Annotations of this start: 121 of 538
• Called 44.0% of time when present
• Phage (with cluster) where this start called: ACFishhook_69 (A3), Aglet_73 (A3), AgronaGT15_69 (A3), Anubis_75 (A3), AugsMagnumOpus_75 (A3), BabyRay_68 (A3), Beauxregard13_71 (A3), BlueBird_70 (A3), BreSam8_72 (A3), Bugatti_70 (A3), BuzzBuzz_66 (A3), Calvinny_71 (A3), Cat_62 (A3), Caviar_67 (A3), Chupacabra_62 (A10), Clammy_69 (A3), ClownCar_71 (A3), Colbster_68 (A3), Cullens_72 (A3), DaHudson_71 (A3), DontArgue_61 (A10), Drake94_62 (A10), DropBear_68 (A3), DustyMartin_66 (A10), Eaglepride_66 (A10), Edison31_61 (A10), EpicPhail_73 (A3), EtoileNova_65 (A3), Farber_72 (A3), Fernando_72 (A3), Fred313_65 (A3), Gemma_69 (A3), Giroux_70 (A3), Goose1D_59 (A3), Goose1X_65 (A3), Goose_65 (A10), Groupthink_72 (A3), Grub_70 (A3), Grum1_71 (A3), Gwennie_72 (A3), HaveUMetTed_72 (A3), Heathen_67 (A3), HelDan_67 (A3), Heliosoles_69 (A3), Hercules11_72 (A3), Hookmount_67 (A3), Idleandcovert_68 (A3), Isca_65 (A3), JF2_65 (A3), JF4_65 (A3), JenCasNa_73 (A3), JeppNRM_72 (A3), Jobu08_68 (A3), KADY_69 (A3), Kachowdy_68 (A3), Kalb97_72 (A3), Kalnoky_72 (A3), Kimona_64 (A19), KittenMittens_61 (A10), Kristoff_63 (A10), LBerry_73 (A3), Lambert1_67 (A3), Lilith_70 (A3), Louie6_71 (A3), Lowa_72 (A3), LugYA_75 (A3), MA5_67 (A3), MK4_67 (A3), Malinsilva_74 (A3), Manu_71 (A3), MarQuardt_72 (A3), Margo_67 (A3), Marie_70 (A3), Marius_72 (A3), Methuselah_65 (A3), Microwolf_68 (A3),

Misomonster_73 (A3), MoneyMay_71 (A3), MuchMore_75 (A3), Noella_67 (A3), Norbert_63 (A3), OKCentral2016_63 (A10), OlanP_70 (A3), Ollie_72 (A3), P28Green_72 (A3), PGHhamlin_74 (A3), Panamaxus_65 (A3), PeaceMeal1_62 (A10), Pembroke_72 (A3), Penny1_72 (A3), Phantastic_69 (A3), PhishRPhriends_68 (A3), Phoxy_72 (A3), Pistachio_67 (A3), Pocahontas_66 (A3), Poompha_61 (A10), Popcicle_67 (A3), PotatoSplit_73 (A3), PurpleHaze_71 (A3), QuinnKiro_66 (A3), Rebeuca_65 (A10), ResDef_65 (A3), RhynO_64 (A10), Rockstar_66 (A3), Roimos_65 (A3), Rowdy_66 (A10), Rummer_71 (A3), Sabinator_70 (A3), SaturnRing_67 (A3), Scout_66 (A3), Severus_62 (A10), Shapes_66 (A10), Sheen_69 (A7), Shep_65 (A3), SoYo_69 (A3), SoilDragon_71 (A3), Soshari_74 (A3), Spike509_72 (A3), StepMih_71 (A3), Taurus_73 (A3), Texage_65 (A3), TinyPebbles_71 (A3), Todacoro_67 (A3), Topanga_61 (A10), Trike_61 (A10), Twister_63 (A10), Veracruz_64 (A3), Vix_68 (A3), WalterMcMickey_63 (A10), Watson_71 (A3), Wooldri_74 (A3), Zarafa_65 (A3), Zetzy_69 (A3),

Start 26:
• Found in 3 of 581 (0.5%) of genes in pham
• Manual Annotations of this start: 3 of 538
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DarthPhader_68 (A12), Refuge_68 (A12), Zimmer_68 (A12),

Start 30:
• Found in 81 of 581 (13.9%) of genes in pham
• Manual Annotations of this start: 8 of 538
• Called 9.9% of time when present
• Phage (with cluster) where this start called: Daishi_71 (A3), Dieselweasel_72 (A3), GingkoMaracino_72 (A3), JHC117_68 (A3), MadMarie_70 (A3), Mainiac_71 (A3), Sabia_70 (A3), Tiffany_71 (A3),

Start 34:
• Found in 3 of 581 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 538
• Called 33.3% of time when present
• Phage (with cluster) where this start called: PainterBoy_74 (A16),

Start 36:
• Found in 9 of 581 (1.5%) of genes in pham
• Manual Annotations of this start: 6 of 538
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bellris_72 (A9), BogosyJay_73 (A9), CogOmlette_70 (A9), Darrell_74 (A9), LoneWolf_73 (A9), Maminiaina_73 (A9), Minispark_70 (A9), Rahalelujah_72 (A9), WorldCup_70 (A9),

Start 37:
• Found in 9 of 581 (1.5%) of genes in pham
• Manual Annotations of this start: 2 of 538
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Celestialunch_67 (A9), Elephantoon_73 (A9), MegTheThird_67 (A9),

Start 38:
• Found in 243 of 581 (41.8%) of genes in pham

• Manual Annotations of this start: 228 of 538
• Called 99.6% of time when present
• Phage (with cluster) where this start called: A6_58 (A1), AFIS_62 (A1), Abbyshoes_68 (A1), Acme_67 (A1), Adahisdi_65 (A1), Aeneas_69 (A1), Agaliana_61 (A1), Ajay_65 (A1), Aldrich_62 (A1), Alsfro_72 (A1), Altman_68 (A1), Alvin_65 (A1), Anglerfish_66 (A1), Applejack_66 (A1), Arcanine_68 (A1), Arlo_64 (A1), Ashballer_69 (A1), Atkinbua_69 (A1), BK1_58 (A1), BPBiebs31_69 (A1), BaconJack_71 (A1), Barriga_68 (A1), BarrowTuph_67 (A1), Beatrix_65 (A1), BeesKnees_68 (A1), Bethlehem_67 (A1), Bexan_63 (A1), Big3_66 (A1), BigMau_68 (A1), BigPaolini_62 (A1), Bigchungi_64 (A1), Bigfoot_59 (A1), BillKnuckles_63 (A1), Bircsak_66 (A1), Blackflame_61 (A1), Blesser_62 (A1), BluSpix_64 (A1), Blue_66 (A1), Bob3_67 (A1), Bones_64 (A1), Briton15_70 (A1), Bruns_68 (A1), Burton_67 (A1), Buttons_62 (A1), Bxb1_59 (A1), CactusRose_67 (A1), Carlyle_67 (A1), CartmannCramer_65 (A1), CatBus_61 (A1), Chanagan_59 (A1), ChristmasHams_60 (A1), Ciao_63 (A1), ConceptII_70 (A1), Corvo_66 (A1), Crispicous1_63 (A1), Cueylyss_65 (A1), DD5_66 (A1), Dexes_66 (A1), DirtDevil_63 (A1), Doom_63 (A1), DrFeelGood_64 (A1), DreamCatcher_68 (A1), Dreamboat_68 (A1), Dulcie_66 (A1), Dussy_67 (A1), Dynamix_67 (A1), Edtherson_64 (A1), EnzoK_66 (A1), Espresso_63 (A1), Euphoria_65 (A1), Eyeball_67 (A1), Fajezeel_66 (A1), Fascinus_61 (A1), Fenn_72 (A1), Forsytheast_67 (A1), Francis47_65 (A1), Froghopper_63 (A1), Fushigi_61 (A1), GMonster_64 (A1), Gachnar_66 (A1), GageAP_67 (A1), Gandalf20_68 (A1), Gompeii16_66 (A1), Graduation_71 (A1), GrecoEtereo_65 (A1), Greg_66 (A1), GroundGoblin_62 (A1), Gwendoluna_70 (A1), Gyzlar_61 (A1), Hami1_61 (A1), HanShotFirst_67 (A1), HarryOW_63 (A1), Hermia_63 (A1), HermioneGrange_68 (A1), Homines_57 (A1), Hope4ever_67 (A1), ILeeKay_68 (A1), Ichabod_70 (A1), IgnatiusPatJac_66 (A1), Inyanga_61 (A1), Iqorha_61 (A1), JC27_70 (A1), JackSparrow_69 (A1), Jasper_67 (A1), Jerm2_67 (A1), Jorgensen_71 (A1), JuliaChild_67 (A1), KBG_67 (A1), KSSJEB_65 (A1), Kanely_67 (A1), Kenmech_70 (A1), KikiBouba_64 (A1), Killigrew_64 (A1), Kugel_70 (A1), KyMonks1A_70 (A1), Kykar_67 (A1), Lamina13_69 (A1), Lesedi_62 (A1), Levia_63 (A1), Licorice_66 (A1), LilBib_65 (A1), Lockley_65 (A1), Lopton_66 (A1), LunarLander_65 (A1), MPlant7149_66 (A1), Magnar_65 (A1), Magnito_67 (A1), Makemake_72 (A1), Manatee_66 (A1), Marcell_62 (A1), Marchy_59 (A1), Marco3_72 (A1), Marge_62 (A1), Maroc7_65 (A1), Marsha_66 (A1), MaryBeth_63 (A1), McGuire_66 (A1), McSinger_63 (A1), MetalQZJ_62 (A1), Michley_70 (A1), MilleFeuille_68 (A1), Mkhuseli_61 (A1), Molly_67 (A1), Monet_68 (A1), Moose_67 (A1), MrGordo_69 (A1), Mryolo_64 (A1), Mule_63 (A1), Museum_68 (A1), NEHalo_63 (A1), Naira_71 (A1), Nerujay_71 (A1), Nhonho_65 (A1), Niza_68 (A1), Norz_65 (A1), Noxious_64 (A1), Ohno789_67 (A1), Oogway_64 (A1), PSullivan_64 (A1), PacerPaul_66 (A1), Papez_68 (A1), Paphu_65 (A1), Paraselene_67 (A1), Pari_70 (A1), Parliament_67 (A1), PascalRango_63 (A1), PattyP_68 (A1), Payneful_63 (A1), Pelly_68 (A1), Pepe_64 (A1), Perseus_64 (A1), Peterson_69 (A1), Petp2012_69 (A1), Petruchio_68 (A1), PherrisBueller_67 (A1), PhineBark_65 (A1), Phlippers_61 (A1), PhrostyMug_66 (A1), PinkPlastic_65 (A1), Pinto_66 (A1), Pippin_65 (A1), Pita2_67 (A1), PowerRanger_65 (A1), ProMouse_70 (A1), Puppet_64 (A1), QTRlifeCrisis_67 (A1), Raid_65 (A1), Rajelicia_66 (A1), Rhynn_62 (A1), RidgeCB_66 (A1), Ringer_69 (A1), Rohr_67 (A1), Rubeus_65 (A1), Rufus_68 (A1), Ruotula_72 (A1), Rutherferd_67 (A1), STLscum_75 (A1), Sagefire_67 (A1), Sandaddy_63 (A1), Sanya_64 (A1), SarFire_65 (A1), Scowl_67 (A1), ShortQueendom_59 (A1), Sibs6_68 (A1), SkiPole_74 (A1), Slagathor_68 (A1), Smairt_68 (A1), Smeagol_68 (A1), Snazzy_63 (A1), Solon_64 (A1), Sorpresa_64 (A1), SpikeBT_64 (A1), Squee_69 (A1), StewieG_59 (A1), StrongArm_64 (A1), Sumter_62 (A1), Sunshine924_71 (A1), SwissCheese_69 (A1), Switzer_67 (A1), Swole_67 (A1), Target_69 (A1), Tasp14_69 (A1), Teodoridan_65

(A1), TheloniousMonk_70 (A1), Thor_65 (A1), Topgun_63 (A1), Tote_62 (A1), Traft412_69 (A1), Treddle_66 (A1), Tripl3t_70 (A1), Trouble_66 (A1), Turj99_64 (A1), TwoPeat_67 (A1), U2_62 (A1), Violet_63 (A1), Watermelon_65 (A1), Wheeler_68 (A1), Whitspit_61 (A1), Wilkins_64 (A1), Zeeculate_65 (A1), Zephyr_67 (A1), Zeuska_71 (A1),

Start 40:
• Found in 3 of 581 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 66.7% of time when present
• Phage (with cluster) where this start called: FlyCatcher_70 (A7), Toro_68 (A7),

Start 41:
• Found in 1 of 581 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 538
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DreamTeam1_67 (A9),

Start 43:
• Found in 1 of 581 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 538
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arissanae_70 (A9),

Start 44:
• Found in 2 of 581 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 538
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Charm_67 (A9), Klodlith_68 (A9),

Start 45:
• Found in 32 of 581 (5.5%) of genes in pham
• Manual Annotations of this start: 31 of 538
• Called 96.9% of time when present
• Phage (with cluster) where this start called: Aliter_74 (A9), Alma_71 (A9), Ayanochan_70 (A9), Beemo_73 (A9), Catalina_75 (A9), Conquerage_71 (A9), EdogawaKiddo_73 (A9), Eidsmoe_71 (A9), EmyBug_70 (A9), ExplosioNervosa_71 (A9), Fayely_71 (A9), Hanray_73 (A9), Holex_73 (A9), HortumSL17_74 (A9), Jiawan_73 (A9), Lilleskat_73 (A9), MyraDee_69 (A18), Myxus_73 (A9), Onglai_72 (A9), PackMan_72 (A9), Phaeder_73 (A9), Phonnegut_73 (A9), Pioneer_73 (A9), Priya_71 (A9), Qobbit_71 (A9), RyeScarlet_73 (A9), Sachima_73 (A9), Scherzo_72 (A9), Spouty_71 (A9), Tubs_73 (A9), Ugenie5_68 (A9),

Start 47:
• Found in 32 of 581 (5.5%) of genes in pham
• Manual Annotations of this start: 6 of 538
• Called 18.8% of time when present
• Phage (with cluster) where this start called: Anselm_72 (A2), Dalmatian_71 (A2), DudeLittle_69 (A2), NicoleTera_68 (A2), NothingSpecial_67 (A2), Toaka_73 (A9),

Start 48:
• Found in 1 of 581 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 538

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Keziacharles14_69 (A9),

Start 49:
• Found in 11 of 581 (1.9%) of genes in pham
• Manual Annotations of this start: 7 of 538
• Called 63.6% of time when present
• Phage (with cluster) where this start called: Chargerpower_67 (A22), Jeeves_74 (A14), Luchador_73 (A14), Pharaoh_67 (A12), SororFago_72 (A14), Sunhee_72 (A14), Vanisoa_70 (A9),

Start 50:
• Found in 27 of 581 (4.6%) of genes in pham
• Manual Annotations of this start: 26 of 538
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anaysia_80 (A15), Anon_77 (A15), Anthony_63 (A20), Battleship_82 (A15), Boohoo_80 (A15), DekHockey33_81 (A15), Epsocamisio_76 (A15), FatCactus_58 (A20), JSwag_79 (A15), KatherineG_80 (A15), LastResort_78 (A15), LogiBear_71 (A15), Looper_79 (A15), MinecraftSteve_80 (A15), Nebulosus_77 (A15), Nedarya_76 (A15), Oofda_80 (A15), Ravana_82 (A15), ReMo_78 (A15), Remus_81 (A15), Rosalind_78 (A15), ShayRa_80 (A15), Soups_80 (A15), Strosahl_81 (A15), Switzerland_79 (A15), Waits_80 (A15), Warrior24_81 (A15),

Start 52:
• Found in 2 of 581 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 538
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Gail_72 (A14),

Start 53:
• Found in 132 of 581 (22.7%) of genes in pham
• Manual Annotations of this start: 11 of 538
• Called 10.6% of time when present
• Phage (with cluster) where this start called: B1_59 (A3), BabyJohn_62 (A3), Che12_74 (A2), Chiqui_62 (A3), Kinmap_72 (A21), Marchesa_65 (A3), Pawn_70 (A3), Phranny_72 (A3), Puppy_68 (A3), Reba_71 (A3), SheaKeira_67 (A9), SwirlSquare_76 (A2), TNguyen7_68 (A3), Yecey3_74 (A9),

Start 54:
• Found in 11 of 581 (1.9%) of genes in pham
• Manual Annotations of this start: 9 of 538
• Called 81.8% of time when present
• Phage (with cluster) where this start called: Archetta_63 (A5), Bluefalcon_61 (A5), Coog_62 (A5), Ghoulboy_65 (A5), Midas2_62 (A5), NearlyHeadless_81 (A8), Phillis_77 (A8), SydNat_65 (A5), Zolita_64 (A5),

Start 55:
• Found in 4 of 581 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 538
• Called 50.0% of time when present
• Phage (with cluster) where this start called: EagleEye_76 (A16), Lucyedi_75 (A16),

Start 56:
• Found in 3 of 581 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Phlei_58 (A13),

Start 57:
• Found in 1 of 581 (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: DelvinSonDorr_68 (A6),

Start 58:
• Found in 4 of 581 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 538
• Called 25.0% of time when present
• Phage (with cluster) where this start called: XianYue_66 (A2),

Start 59:
• Found in 9 of 581 (1.5%) of genes in pham
• Manual Annotations of this start: 2 of 538
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Cuco_64 (A5), Theia_64 (A5),

Start 60:
• Found in 27 of 581 (4.6%) of genes in pham
• Manual Annotations of this start: 25 of 538
• Called 92.6% of time when present
• Phage (with cluster) where this start called: BABullseye_64 (A6), Blinn1_75 (A6), Colin_70 (A2), Cookiedough_71 (A6), Dorothea_71 (A6), Gladiator_69 (A6), Imbriano_73 (A6), IronMan_68 (A2), Isiphiwo_69 (A6), Jaan_69 (A2), JewelBug_71 (A6), Jordennis_70 (A6), Landor_69 (A2), McFly_71 (A6), Neeharika16_70 (A6), Newrala_71 (A6), Phaded_66 (A2), Pmask_70 (A6), Polyphemus_73 (A6), Priamo_73 (A6), Pukovnik_67 (A2), SuperAwesome_71 (A6), SuperCallie99_68 (A6), Tristan_67 (A2), Trixie_69 (A2),

Start 62:
• Found in 233 of 581 (40.1%) of genes in pham
• Manual Annotations of this start: 1 of 538
• Called 0.4% of time when present
• Phage (with cluster) where this start called: Abrogate_660 (A1),

Start 63:
• Found in 3 of 581 (0.5%) of genes in pham
• Manual Annotations of this start: 3 of 538
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Caraxes_72 (A2), Odin_71 (A2), Superchunk_72 (A2),

Start 64:
• Found in 49 of 581 (8.4%) of genes in pham
• Manual Annotations of this start: 39 of 538
• Called 87.8% of time when present

• Phage (with cluster) where this start called: 20ES_72 (A2), 40AC_70 (A17), AN3_72 (A2), Acolyte_62 (A2), AnnaL29_70 (A2), Baehexic_69 (A2), BengiVuitton_70 (A2), BiancaTri92_70 (A2), BobSwaget_64 (A2), CRB1_72 (A2), Centaur_71 (A2), DeerParkTS_67 (A2), Deloris_70 (A2), Drake55_72 (A2), Equemioh13_70 (A2), First_0071 (A2), Flare16_71 (A2), Gratitude_70 (A2), HarryHoudini_71 (A2), HippoHollow_70 (A2), Kalpine_70 (A2), LadyBird_74 (A2), Larenn_68 (A2), Leogania_70 (A2), LionsBait_70 (A2), Lokk_65 (A2), Loser_72 (A2), Malec_69 (A2), MiculUcigas_71 (A2), Miko_65 (A2), NaSiaTalie_71 (A2), Piro94_70 (A2), Prudy_67 (A2), Rachaly_67 (A2), RedRock_70 (A2), Sknot_71 (A2), TarsusIV_68 (A2), Terrific_71 (A2), Trooper_70 (A2), Updawg_71 (A2), VA6_70 (A2), WeiHuaDA_71 (A2), WideWale_71 (A2),

Start 65:
• Found in 1 of 581 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 538
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Changeling_69 (A2),

Summary by clusters:

There are 20 clusters represented in this pham: A15, A14, A17, A16, A10, A13, A12, A19, A18, A21, A1, A20, A3, A2, A5, A7, A6, A9, A8, A22,

Info for manual annotations of cluster A1:
•Start number 38 was manually annotated 228 times for cluster A1.
•Start number 62 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A10:
•Start number 22 was manually annotated 17 times for cluster A10.

Info for manual annotations of cluster A12:
•Start number 26 was manually annotated 3 times for cluster A12.
•Start number 49 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A14:
•Start number 49 was manually annotated 4 times for cluster A14.
•Start number 52 was manually annotated 1 time for cluster A14.

Info for manual annotations of cluster A15:
•Start number 50 was manually annotated 24 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 34 was manually annotated 1 time for cluster A16.
•Start number 55 was manually annotated 2 times for cluster A16.

Info for manual annotations of cluster A18:
•Start number 45 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:
•Start number 22 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 47 was manually annotated 5 times for cluster A2.
•Start number 53 was manually annotated 2 times for cluster A2.
•Start number 58 was manually annotated 1 time for cluster A2.
•Start number 60 was manually annotated 8 times for cluster A2.
•Start number 63 was manually annotated 3 times for cluster A2.
•Start number 64 was manually annotated 39 times for cluster A2.
•Start number 65 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:
•Start number 50 was manually annotated 2 times for cluster A20.

Info for manual annotations of cluster A21:
•Start number 53 was manually annotated 1 time for cluster A21.

Info for manual annotations of cluster A22:
•Start number 49 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 22 was manually annotated 102 times for cluster A3.
•Start number 30 was manually annotated 8 times for cluster A3.
•Start number 53 was manually annotated 6 times for cluster A3.

Info for manual annotations of cluster A5:
•Start number 54 was manually annotated 7 times for cluster A5.
•Start number 59 was manually annotated 2 times for cluster A5.

Info for manual annotations of cluster A6:
•Start number 60 was manually annotated 17 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 22 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A8:
•Start number 54 was manually annotated 2 times for cluster A8.

Info for manual annotations of cluster A9:
•Start number 36 was manually annotated 6 times for cluster A9.
•Start number 37 was manually annotated 2 times for cluster A9.
•Start number 41 was manually annotated 1 time for cluster A9.
•Start number 43 was manually annotated 1 time for cluster A9.
•Start number 44 was manually annotated 1 time for cluster A9.
•Start number 45 was manually annotated 30 times for cluster A9.
•Start number 47 was manually annotated 1 time for cluster A9.
•Start number 48 was manually annotated 1 time for cluster A9.
•Start number 49 was manually annotated 1 time for cluster A9.
•Start number 53 was manually annotated 2 times for cluster A9.

Gene Information:

Gene: 20ES_72 Start: 43073, Stop: 42834, Start Num: 64

Candidate Starts for 20ES_72:
(Start: 47 @43112 has 6 MA's), (Start: 64 @43073 has 39 MA's), (78, 42998), (83, 42965), (91, 42932), (93, 42923), (95, 42911), (102, 42854),

Gene: 40AC_70 Start: 43765, Stop: 43523, Start Num: 64
Candidate Starts for 40AC_70:
(Start: 64 @43765 has 39 MA's), (76, 43696), (78, 43687), (83, 43654), (91, 43621), (93, 43612), (95, 43600),

Gene: A6_58 Start: 40313, Stop: 40020, Start Num: 38
Candidate Starts for A6_58:
(Start: 38 @40313 has 228 MA's), (Start: 62 @40268 has 1 MA's), (67, 40238), (76, 40190), (83, 40148),

Gene: ACFishhook_69 Start: 42330, Stop: 42022, Start Num: 22
Candidate Starts for ACFishhook_69:
(Start: 22 @42330 has 121 MA's), (Start: 30 @42312 has 8 MA's), (35, 42297), (Start: 53 @42276 has 11 MA's), (66, 42243), (76, 42192), (78, 42183), (81, 42156), (83, 42150), (85, 42141), (91, 42117),

Gene: AFIS_62 Start: 41768, Stop: 41475, Start Num: 38
Candidate Starts for AFIS_62:
(4, 42026), (7, 41990), (Start: 22 @41795 has 121 MA's), (Start: 38 @41768 has 228 MA's), (Start: 62 @41723 has 1 MA's), (67, 41693), (71, 41681), (76, 41645), (83, 41603),

Gene: AN3_72 Start: 41788, Stop: 41549, Start Num: 64
Candidate Starts for AN3_72:
(Start: 47 @41827 has 6 MA's), (Start: 64 @41788 has 39 MA's), (70, 41761), (78, 41713), (83, 41680), (91, 41647), (93, 41638), (95, 41626), (102, 41569),

Gene: Abbyshoes_68 Start: 43272, Stop: 42979, Start Num: 38
Candidate Starts for Abbyshoes_68:
(Start: 38 @43272 has 228 MA's), (Start: 62 @43227 has 1 MA's), (67, 43197), (76, 43149), (83, 43107),

Gene: Abrogate_660 Start: 44316, Stop: 44068, Start Num: 62
Candidate Starts for Abrogate_660:
(Start: 38 @44361 has 228 MA's), (Start: 62 @44316 has 1 MA's), (76, 44238), (83, 44196),

Gene: Acme_67 Start: 42824, Stop: 42531, Start Num: 38
Candidate Starts for Acme_67:
(Start: 22 @42851 has 121 MA's), (Start: 38 @42824 has 228 MA's), (Start: 62 @42779 has 1 MA's), (67, 42749), (76, 42701), (83, 42659),

Gene: Acolyte_62 Start: 41272, Stop: 41048, Start Num: 64
Candidate Starts for Acolyte_62:
(Start: 47 @41311 has 6 MA's), (Start: 64 @41272 has 39 MA's), (78, 41200), (83, 41167), (91, 41134), (93, 41125), (95, 41113),

Gene: Adahisdi_65 Start: 43768, Stop: 43475, Start Num: 38
Candidate Starts for Adahisdi_65:
(Start: 38 @43768 has 228 MA's), (Start: 62 @43723 has 1 MA's), (67, 43693), (76, 43645), (83, 43603),

Gene: Aeneas_69 Start: 44571, Stop: 44278, Start Num: 38
Candidate Starts for Aeneas_69:
(Start: 38 @44571 has 228 MA's), (Start: 62 @44526 has 1 MA's), (67, 44496), (76, 44448), (83, 44406),

Gene: Agaliana_61 Start: 39647, Stop: 39354, Start Num: 38
Candidate Starts for Agaliana_61:
(Start: 38 @39647 has 228 MA's), (Start: 62 @39602 has 1 MA's), (67, 39572), (76, 39524), (83, 39482),

Gene: Aglet_73 Start: 42442, Stop: 42134, Start Num: 22
Candidate Starts for Aglet_73:
(Start: 22 @42442 has 121 MA's), (Start: 30 @42424 has 8 MA's), (35, 42409), (Start: 53 @42388 has 11 MA's), (66, 42355), (76, 42304), (78, 42295), (81, 42268), (83, 42262), (91, 42229),

Gene: AgronaGT15_69 Start: 42290, Stop: 41982, Start Num: 22
Candidate Starts for AgronaGT15_69:
(Start: 22 @42290 has 121 MA's), (Start: 30 @42272 has 8 MA's), (35, 42257), (Start: 53 @42236 has 11 MA's), (66, 42203), (76, 42152), (78, 42143), (81, 42116), (83, 42110), (91, 42077),

Gene: Ajay_65 Start: 42714, Stop: 42421, Start Num: 38
Candidate Starts for Ajay_65:
(Start: 38 @42714 has 228 MA's), (Start: 62 @42669 has 1 MA's), (67, 42639), (76, 42591), (83, 42549),

Gene: Aldrich_62 Start: 42001, Stop: 41708, Start Num: 38
Candidate Starts for Aldrich_62:
(Start: 22 @42028 has 121 MA's), (Start: 38 @42001 has 228 MA's), (67, 41926), (76, 41878), (83, 41836),

Gene: Aliter_74 Start: 42621, Stop: 42343, Start Num: 45
Candidate Starts for Aliter_74:
(Start: 45 @42621 has 31 MA's), (77, 42513), (86, 42459), (88, 42450), (95, 42420),

Gene: Alma_71 Start: 42598, Stop: 42323, Start Num: 45
Candidate Starts for Alma_71:
(Start: 45 @42598 has 31 MA's), (77, 42490), (86, 42436), (88, 42427), (95, 42397),

Gene: Alsfro_72 Start: 43165, Stop: 42872, Start Num: 38
Candidate Starts for Alsfro_72:
(Start: 38 @43165 has 228 MA's), (Start: 62 @43120 has 1 MA's), (67, 43090), (76, 43042), (83, 43000),

Gene: Altman_68 Start: 42803, Stop: 42510, Start Num: 38
Candidate Starts for Altman_68:
(Start: 22 @42830 has 121 MA's), (Start: 38 @42803 has 228 MA's), (Start: 62 @42758 has 1 MA's), (67, 42728), (71, 42716), (76, 42680), (83, 42638),

Gene: Alvin_65 Start: 42599, Stop: 42303, Start Num: 38
Candidate Starts for Alvin_65:
(Start: 38 @42599 has 228 MA's), (76, 42473), (83, 42431),

Gene: Anaysia_80 Start: 43699, Stop: 43421, Start Num: 50

Candidate Starts for Anaysia_80:
(21, 43759), (Start: 50 @43699 has 26 MA's), (73, 43621), (78, 43582), (83, 43549), (90, 43519), (91, 43516), (95, 43495), (97, 43462),

Gene: Anglerfish_66 Start: 42975, Stop: 42682, Start Num: 38
Candidate Starts for Anglerfish_66:
(Start: 22 @43002 has 121 MA's), (Start: 38 @42975 has 228 MA's), (Start: 62 @42930 has 1 MA's), (67, 42900), (76, 42852), (83, 42810),

Gene: AnnaL29_70 Start: 43273, Stop: 43034, Start Num: 64
Candidate Starts for AnnaL29_70:
(Start: 47 @43312 has 6 MA's), (Start: 64 @43273 has 39 MA's), (76, 43207), (78, 43198), (83, 43165), (91, 43132), (93, 43123), (95, 43111),

Gene: Anon_77 Start: 43390, Stop: 43115, Start Num: 50
Candidate Starts for Anon_77:
(Start: 50 @43390 has 26 MA's), (69, 43324), (78, 43273), (79, 43258), (85, 43231), (90, 43210), (91, 43207), (98, 43147),

Gene: Anselm_72 Start: 43506, Stop: 43228, Start Num: 47
Candidate Starts for Anselm_72:
(Start: 47 @43506 has 6 MA's), (Start: 64 @43467 has 39 MA's), (77, 43398), (78, 43392), (83, 43359), (91, 43326), (93, 43317), (95, 43305), (102, 43248),

Gene: Anthony_63 Start: 40063, Stop: 39797, Start Num: 50
Candidate Starts for Anthony_63:
(Start: 50 @40063 has 26 MA's), (83, 39925), (85, 39916), (86, 39910), (96, 39859),

Gene: Anubis_75 Start: 42328, Stop: 42020, Start Num: 22
Candidate Starts for Anubis_75:
(Start: 22 @42328 has 121 MA's), (Start: 30 @42310 has 8 MA's), (35, 42295), (Start: 53 @42274 has 11 MA's), (66, 42241), (76, 42190), (78, 42181), (81, 42154), (83, 42148), (91, 42115),

Gene: Applejack_66 Start: 41373, Stop: 41080, Start Num: 38
Candidate Starts for Applejack_66:
(Start: 22 @41400 has 121 MA's), (Start: 38 @41373 has 228 MA's), (Start: 62 @41328 has 1 MA's), (67, 41298), (71, 41286), (76, 41250), (83, 41208),

Gene: Arcanine_68 Start: 43699, Stop: 43406, Start Num: 38
Candidate Starts for Arcanine_68:
(Start: 22 @43726 has 121 MA's), (Start: 38 @43699 has 228 MA's), (Start: 62 @43654 has 1 MA's), (67, 43624), (76, 43576), (83, 43534),

Gene: Archetta_63 Start: 41587, Stop: 41336, Start Num: 54
Candidate Starts for Archetta_63:
(Start: 54 @41587 has 9 MA's), (Start: 59 @41575 has 2 MA's), (76, 41503), (78, 41494), (79, 41479), (93, 41416), (97, 41371), (101, 41350), (103, 41344),

Gene: Arissanae_70 Start: 42870, Stop: 42583, Start Num: 43
Candidate Starts for Arissanae_70:
(Start: 43 @42870 has 1 MA's), (51, 42861), (83, 42723), (92, 42684), (95, 42669),

Gene: Arlo_64 Start: 42290, Stop: 41997, Start Num: 38

Candidate Starts for Arlo_64:
(Start: 22 @42317 has 121 MA's), (Start: 38 @42290 has 228 MA's), (Start: 62 @42245 has 1 MA's), (67, 42215), (76, 42167), (83, 42125),

Gene: Ashballer_69 Start: 43449, Stop: 43156, Start Num: 38
Candidate Starts for Ashballer_69:
(Start: 22 @43476 has 121 MA's), (Start: 38 @43449 has 228 MA's), (Start: 62 @43404 has 1 MA's), (67, 43374), (71, 43362), (76, 43326), (83, 43284),

Gene: Atkinbua_69 Start: 42674, Stop: 42381, Start Num: 38
Candidate Starts for Atkinbua_69:
(Start: 22 @42701 has 121 MA's), (Start: 38 @42674 has 228 MA's), (Start: 62 @42629 has 1 MA's), (67, 42599), (76, 42551), (83, 42509), (100, 42404),

Gene: AugsMagnumOpus_75 Start: 42433, Stop: 42125, Start Num: 22
Candidate Starts for AugsMagnumOpus_75:
(Start: 22 @42433 has 121 MA's), (Start: 30 @42415 has 8 MA's), (35, 42400), (Start: 53 @42379 has 11 MA's), (66, 42346), (76, 42295), (78, 42286), (81, 42259), (83, 42253), (91, 42220),

Gene: Ayanochan_70 Start: 42384, Stop: 42106, Start Num: 45
Candidate Starts for Ayanochan_70:
(Start: 45 @42384 has 31 MA's), (77, 42276), (86, 42222), (88, 42213), (95, 42183),

Gene: B1_59 Start: 40295, Stop: 39984, Start Num: 53
Candidate Starts for B1_59:
(Start: 22 @40352 has 121 MA's), (35, 40319), (Start: 53 @40295 has 11 MA's), (86, 40145), (91, 40127), (93, 40118), (95, 40106),

Gene: BABullseye_64 Start: 38991, Stop: 38743, Start Num: 60
Candidate Starts for BABullseye_64:
(10, 39231), (17, 39159), (23, 39078), (39, 39033), (Start: 60 @38991 has 25 MA's), (76, 38916), (83, 38874), (90, 38844), (93, 38832),

Gene: BK1_58 Start: 40313, Stop: 40020, Start Num: 38
Candidate Starts for BK1_58:
(Start: 38 @40313 has 228 MA's), (Start: 62 @40268 has 1 MA's), (67, 40238), (76, 40190), (83, 40148),

Gene: BPBiebs31_69 Start: 43396, Stop: 43103, Start Num: 38
Candidate Starts for BPBiebs31_69:
(Start: 22 @43423 has 121 MA's), (Start: 38 @43396 has 228 MA's), (Start: 62 @43351 has 1 MA's), (67, 43321), (71, 43309), (76, 43273), (83, 43231),

Gene: BabyJohn_62 Start: 42122, Stop: 41811, Start Num: 53
Candidate Starts for BabyJohn_62:
(Start: 22 @42179 has 121 MA's), (35, 42146), (Start: 53 @42122 has 11 MA's), (86, 41972), (91, 41954), (95, 41933),

Gene: BabyRay_68 Start: 42157, Stop: 41789, Start Num: 22
Candidate Starts for BabyRay_68:
(Start: 22 @42157 has 121 MA's), (35, 42124), (Start: 53 @42100 has 11 MA's), (91, 41932), (93, 41923), (95, 41911),

Gene: BaconJack_71 Start: 45661, Stop: 45368, Start Num: 38
Candidate Starts for BaconJack_71:
(Start: 22 @45688 has 121 MA's), (Start: 38 @45661 has 228 MA's), (Start: 62 @45616 has 1 MA's), (67, 45586), (76, 45538), (83, 45496),

Gene: Baehexic_69 Start: 42795, Stop: 42556, Start Num: 64
Candidate Starts for Baehexic_69:
(Start: 64 @42795 has 39 MA's), (70, 42768), (71, 42765), (78, 42720), (83, 42687), (91, 42654), (93, 42645), (95, 42633),

Gene: Barriga_68 Start: 41452, Stop: 41159, Start Num: 38
Candidate Starts for Barriga_68:
(Start: 22 @41479 has 121 MA's), (Start: 38 @41452 has 228 MA's), (Start: 62 @41407 has 1 MA's), (67, 41377), (71, 41365), (76, 41329), (83, 41287),

Gene: BarrowTuph_67 Start: 42484, Stop: 42191, Start Num: 38
Candidate Starts for BarrowTuph_67:
(Start: 38 @42484 has 228 MA's), (Start: 62 @42439 has 1 MA's), (67, 42409), (76, 42361), (83, 42319),

Gene: Battleship_82 Start: 43572, Stop: 43294, Start Num: 50
Candidate Starts for Battleship_82:
(21, 43632), (Start: 50 @43572 has 26 MA's), (73, 43494), (78, 43455), (83, 43422), (90, 43392), (91, 43389), (95, 43368), (97, 43335),

Gene: Beatrix_65 Start: 43536, Stop: 43243, Start Num: 38
Candidate Starts for Beatrix_65:
(Start: 30 @43563 has 8 MA's), (Start: 38 @43536 has 228 MA's), (Start: 62 @43491 has 1 MA's), (67, 43461), (76, 43413), (83, 43371),

Gene: Beauxregard13_71 Start: 42445, Stop: 42137, Start Num: 22
Candidate Starts for Beauxregard13_71:
(Start: 22 @42445 has 121 MA's), (Start: 30 @42427 has 8 MA's), (35, 42412), (Start: 53 @42391 has 11 MA's), (66, 42358), (76, 42307), (78, 42298), (81, 42271), (83, 42265), (91, 42232),

Gene: Beemo_73 Start: 42639, Stop: 42361, Start Num: 45
Candidate Starts for Beemo_73:
(Start: 45 @42639 has 31 MA's), (77, 42531), (86, 42477), (88, 42468), (95, 42438),

Gene: BeesKnees_68 Start: 42003, Stop: 41710, Start Num: 38
Candidate Starts for BeesKnees_68:
(Start: 22 @42030 has 121 MA's), (Start: 38 @42003 has 228 MA's), (Start: 62 @41958 has 1 MA's), (67, 41928), (76, 41880), (83, 41838),

Gene: Bellris_72 Start: 42330, Stop: 42028, Start Num: 36
Candidate Starts for Bellris_72:
(8, 42540), (Start: 36 @42330 has 6 MA's), (83, 42168), (95, 42114),

Gene: BengiVuitton_70 Start: 43050, Stop: 42811, Start Num: 64
Candidate Starts for BengiVuitton_70:
(Start: 47 @43089 has 6 MA's), (Start: 64 @43050 has 39 MA's), (70, 43023), (78, 42975), (83, 42942), (91, 42909), (93, 42900), (95, 42888), (102, 42831),

Gene: Bethlehem_67 Start: 44314, Stop: 44021, Start Num: 38
Candidate Starts for Bethlehem_67:
(Start: 30 @44341 has 8 MA's), (Start: 38 @44314 has 228 MA's), (Start: 62 @44269 has 1 MA's), (67, 44239), (76, 44191), (83, 44149),

Gene: Bexan_63 Start: 43315, Stop: 43022, Start Num: 38
Candidate Starts for Bexan_63:
(Start: 22 @43342 has 121 MA's), (Start: 38 @43315 has 228 MA's), (Start: 62 @43270 has 1 MA's), (67, 43240), (76, 43192), (83, 43150),

Gene: BiancaTri92_70 Start: 43252, Stop: 43013, Start Num: 64
Candidate Starts for BiancaTri92_70:
(Start: 47 @43291 has 6 MA's), (Start: 64 @43252 has 39 MA's), (78, 43177), (83, 43144), (91, 43111), (93, 43102), (95, 43090),

Gene: Big3_66 Start: 43783, Stop: 43490, Start Num: 38
Candidate Starts for Big3_66:
(Start: 38 @43783 has 228 MA's), (Start: 62 @43738 has 1 MA's), (67, 43708), (76, 43660), (83, 43618),

Gene: BigMau_68 Start: 43204, Stop: 42911, Start Num: 38
Candidate Starts for BigMau_68:
(5, 43432), (Start: 22 @43231 has 121 MA's), (Start: 38 @43204 has 228 MA's), (Start: 62 @43159 has 1 MA's), (67, 43129), (76, 43081), (83, 43039),

Gene: BigPaolini_62 Start: 40440, Stop: 40147, Start Num: 38
Candidate Starts for BigPaolini_62:
(Start: 38 @40440 has 228 MA's), (Start: 62 @40395 has 1 MA's), (67, 40365), (76, 40317), (83, 40275),

Gene: Bigchungi_64 Start: 42232, Stop: 41939, Start Num: 38
Candidate Starts for Bigchungi_64:
(Start: 22 @42259 has 121 MA's), (Start: 38 @42232 has 228 MA's), (Start: 62 @42187 has 1 MA's), (67, 42157), (76, 42109), (83, 42067),

Gene: Bigfoot_59 Start: 41835, Stop: 41542, Start Num: 38
Candidate Starts for Bigfoot_59:
(Start: 22 @41862 has 121 MA's), (Start: 38 @41835 has 228 MA's), (Start: 62 @41790 has 1 MA's), (67, 41760), (71, 41748), (76, 41712), (83, 41670),

Gene: BillKnuckles_63 Start: 43835, Stop: 43542, Start Num: 38
Candidate Starts for BillKnuckles_63:
(Start: 38 @43835 has 228 MA's), (Start: 62 @43790 has 1 MA's), (67, 43760), (76, 43712), (83, 43670),

Gene: Bircsak_66 Start: 44564, Stop: 44271, Start Num: 38
Candidate Starts for Bircsak_66:
(Start: 38 @44564 has 228 MA's), (Start: 62 @44519 has 1 MA's), (67, 44489), (76, 44441), (83, 44399),

Gene: Blackflame_61 Start: 41979, Stop: 41686, Start Num: 38
Candidate Starts for Blackflame_61:

(Start: 38 @41979 has 228 MA's), (Start: 62 @41934 has 1 MA's), (67, 41904), (76, 41856), (83, 41814),

Gene: Blesser_62 Start: 41585, Stop: 41292, Start Num: 38
Candidate Starts for Blesser_62:
(Start: 38 @41585 has 228 MA's), (Start: 62 @41540 has 1 MA's), (67, 41510), (76, 41462), (83, 41420),

Gene: Blinn1_75 Start: 41595, Stop: 41347, Start Num: 60
Candidate Starts for Blinn1_75:
(39, 41637), (Start: 60 @41595 has 25 MA's), (83, 41478), (91, 41445), (93, 41436), (95, 41424), (104, 41352),

Gene: BluSpix_64 Start: 38419, Stop: 38126, Start Num: 38
Candidate Starts for BluSpix_64:
(Start: 22 @38446 has 121 MA's), (Start: 38 @38419 has 228 MA's), (Start: 62 @38374 has 1 MA's), (67, 38344), (76, 38296), (83, 38254),

Gene: Blue_66 Start: 43535, Stop: 43242, Start Num: 38
Candidate Starts for Blue_66:
(Start: 22 @43562 has 121 MA's), (Start: 38 @43535 has 228 MA's), (Start: 62 @43490 has 1 MA's), (67, 43460), (76, 43412), (83, 43370),

Gene: BlueBird_70 Start: 42204, Stop: 41836, Start Num: 22
Candidate Starts for BlueBird_70:
(Start: 22 @42204 has 121 MA's), (31, 42183), (35, 42171), (Start: 53 @42147 has 11 MA's), (86, 41997), (91, 41979), (95, 41958),

Gene: Bluefalcon_61 Start: 41607, Stop: 41356, Start Num: 54
Candidate Starts for Bluefalcon_61:
(Start: 54 @41607 has 9 MA's), (Start: 59 @41595 has 2 MA's), (76, 41523), (78, 41514), (79, 41499), (93, 41436), (97, 41391), (101, 41370), (103, 41364),

Gene: Bob3_67 Start: 42474, Stop: 42181, Start Num: 38
Candidate Starts for Bob3_67:
(Start: 22 @42501 has 121 MA's), (Start: 38 @42474 has 228 MA's), (Start: 62 @42429 has 1 MA's), (67, 42399), (76, 42351), (83, 42309),

Gene: BobSwaget_64 Start: 41129, Stop: 40887, Start Num: 64
Candidate Starts for BobSwaget_64:
(Start: 47 @41168 has 6 MA's), (Start: 64 @41129 has 39 MA's), (78, 41054), (83, 41021), (91, 40988), (93, 40979),

Gene: BogosyJay_73 Start: 42852, Stop: 42568, Start Num: 36
Candidate Starts for BogosyJay_73:
(Start: 36 @42852 has 6 MA's), (77, 42741), (83, 42702), (95, 42648),

Gene: Bones_64 Start: 43490, Stop: 43197, Start Num: 38
Candidate Starts for Bones_64:
(28, 43526), (Start: 38 @43490 has 228 MA's), (Start: 62 @43445 has 1 MA's), (67, 43415), (76, 43367), (83, 43325),

Gene: Boohoo_80 Start: 43699, Stop: 43421, Start Num: 50

Candidate Starts for Boohoo_80:
(21, 43759), (Start: 50 @43699 has 26 MA's), (73, 43621), (78, 43582), (83, 43549), (90, 43519), (91, 43516), (95, 43495), (97, 43462),

Gene: BreSam8_72 Start: 42435, Stop: 42127, Start Num: 22
Candidate Starts for BreSam8_72:
(Start: 22 @42435 has 121 MA's), (Start: 30 @42417 has 8 MA's), (35, 42402), (Start: 53 @42381 has 11 MA's), (66, 42348), (76, 42297), (78, 42288), (81, 42261), (83, 42255), (91, 42222),

Gene: Briton15_70 Start: 44278, Stop: 43985, Start Num: 38
Candidate Starts for Briton15_70:
(Start: 22 @44305 has 121 MA's), (Start: 38 @44278 has 228 MA's), (Start: 62 @44233 has 1 MA's), (67, 44203), (76, 44155), (83, 44113),

Gene: Bruns_68 Start: 42415, Stop: 42122, Start Num: 38
Candidate Starts for Bruns_68:
(Start: 22 @42442 has 121 MA's), (Start: 38 @42415 has 228 MA's), (Start: 62 @42370 has 1 MA's), (67, 42340), (71, 42328), (76, 42292), (83, 42250),

Gene: Bugatti_70 Start: 42204, Stop: 41836, Start Num: 22
Candidate Starts for Bugatti_70:
(Start: 22 @42204 has 121 MA's), (31, 42183), (35, 42171), (Start: 53 @42147 has 11 MA's), (86, 41997), (91, 41979), (95, 41958),

Gene: Burton_67 Start: 44237, Stop: 43944, Start Num: 38
Candidate Starts for Burton_67:
(Start: 22 @44264 has 121 MA's), (Start: 38 @44237 has 228 MA's), (Start: 62 @44192 has 1 MA's), (67, 44162), (76, 44114), (83, 44072),

Gene: Buttons_62 Start: 39954, Stop: 39661, Start Num: 38
Candidate Starts for Buttons_62:
(Start: 22 @39981 has 121 MA's), (Start: 38 @39954 has 228 MA's), (Start: 62 @39909 has 1 MA's), (67, 39879), (76, 39831), (83, 39789),

Gene: BuzzBuzz_66 Start: 42469, Stop: 42161, Start Num: 22
Candidate Starts for BuzzBuzz_66:
(6, 42676), (Start: 22 @42469 has 121 MA's), (29, 42457), (Start: 30 @42451 has 8 MA's), (35, 42436), (Start: 53 @42415 has 11 MA's), (66, 42382), (76, 42331), (78, 42322), (81, 42295), (83, 42289), (91, 42256),

Gene: Bxb1_59 Start: 41067, Stop: 40774, Start Num: 38
Candidate Starts for Bxb1_59:
(Start: 22 @41094 has 121 MA's), (Start: 38 @41067 has 228 MA's), (Start: 62 @41022 has 1 MA's), (67, 40992), (71, 40980), (76, 40944), (83, 40902),

Gene: CRB1_72 Start: 43596, Stop: 43357, Start Num: 64
Candidate Starts for CRB1_72:
(Start: 47 @43635 has 6 MA's), (Start: 64 @43596 has 39 MA's), (78, 43521), (83, 43488), (91, 43455), (93, 43446), (95, 43434), (102, 43377),

Gene: CactusRose_67 Start: 42855, Stop: 42562, Start Num: 38
Candidate Starts for CactusRose_67:

(Start: 22 @42882 has 121 MA's), (Start: 38 @42855 has 228 MA's), (Start: 62 @42810 has 1 MA's), (67, 42780), (76, 42732), (83, 42690),

Gene: Calvinny_71 Start: 42258, Stop: 41950, Start Num: 22
Candidate Starts for Calvinny_71:
(Start: 22 @42258 has 121 MA's), (Start: 30 @42240 has 8 MA's), (35, 42225), (Start: 53 @42204 has 11 MA's), (66, 42171), (76, 42120), (78, 42111), (81, 42084), (83, 42078), (91, 42045),

Gene: Caraxes_72 Start: 41714, Stop: 41472, Start Num: 63
Candidate Starts for Caraxes_72:
(Start: 63 @41714 has 3 MA's), (79, 41615), (82, 41600), (83, 41597), (84, 41591), (85, 41588), (91, 41564), (95, 41543),

Gene: Carlyle_67 Start: 41641, Stop: 41348, Start Num: 38
Candidate Starts for Carlyle_67:
(Start: 38 @41641 has 228 MA's), (Start: 62 @41596 has 1 MA's), (67, 41566), (76, 41518), (83, 41476),

Gene: CartmannCramer_65 Start: 44511, Stop: 44218, Start Num: 38
Candidate Starts for CartmannCramer_65:
(Start: 22 @44538 has 121 MA's), (Start: 38 @44511 has 228 MA's), (Start: 62 @44466 has 1 MA's), (67, 44436), (76, 44388), (83, 44346),

Gene: CatBus_61 Start: 42193, Stop: 41900, Start Num: 38
Candidate Starts for CatBus_61:
(Start: 22 @42220 has 121 MA's), (Start: 38 @42193 has 228 MA's), (67, 42118), (76, 42070), (83, 42028),

Gene: Cat_62 Start: 41770, Stop: 41402, Start Num: 22
Candidate Starts for Cat_62:
(Start: 22 @41770 has 121 MA's), (35, 41737), (Start: 53 @41713 has 11 MA's), (91, 41545), (93, 41536), (95, 41524),

Gene: Catalina_75 Start: 42695, Stop: 42417, Start Num: 45
Candidate Starts for Catalina_75:
(Start: 45 @42695 has 31 MA's), (77, 42587), (86, 42533), (88, 42524), (95, 42494),

Gene: Caviar_67 Start: 42160, Stop: 41789, Start Num: 22
Candidate Starts for Caviar_67:
(Start: 22 @42160 has 121 MA's), (35, 42127), (Start: 53 @42103 has 11 MA's), (76, 42007), (86, 41950), (91, 41932), (95, 41911),

Gene: Celestialunch_67 Start: 41585, Stop: 41286, Start Num: 37
Candidate Starts for Celestialunch_67:
(1, 42011), (Start: 37 @41585 has 2 MA's), (77, 41468), (83, 41429), (95, 41375),

Gene: Centaur_71 Start: 43010, Stop: 42771, Start Num: 64
Candidate Starts for Centaur_71:
(Start: 64 @43010 has 39 MA's), (70, 42983), (71, 42980), (78, 42935), (83, 42902), (91, 42869), (93, 42860), (95, 42848),

Gene: Chanagan_59 Start: 40048, Stop: 39755, Start Num: 38
Candidate Starts for Chanagan_59:

(Start: 22 @40075 has 121 MA's), (Start: 38 @40048 has 228 MA's), (Start: 62 @40003 has 1 MA's), (67, 39973), (76, 39925), (83, 39883),

Gene: Changeling_69 Start: 43249, Stop: 43010, Start Num: 65
Candidate Starts for Changeling_69:
(Start: 47 @43291 has 6 MA's), (Start: 64 @43252 has 39 MA's), (Start: 65 @43249 has 1 MA's), (75, 43207), (76, 43183), (78, 43174), (83, 43141), (91, 43108), (93, 43099), (95, 43087),

Gene: Chargerpower_67 Start: 40705, Stop: 40445, Start Num: 49
Candidate Starts for Chargerpower_67:
(Start: 37 @40726 has 2 MA's), (Start: 49 @40705 has 7 MA's), (77, 40612), (86, 40558), (88, 40549), (95, 40519), (99, 40471), (100, 40468), (101, 40465),

Gene: Charm_67 Start: 41703, Stop: 41416, Start Num: 44
Candidate Starts for Charm_67:
(Start: 44 @41703 has 1 MA's), (77, 41598), (83, 41559), (95, 41505),

Gene: Che12_74 Start: 41861, Stop: 41586, Start Num: 53
Candidate Starts for Che12_74:
(2, 42212), (19, 41975), (Start: 53 @41861 has 11 MA's), (56, 41852), (70, 41792), (76, 41753), (83, 41711), (85, 41702), (91, 41678), (95, 41657),

Gene: Chiqui_62 Start: 42131, Stop: 41820, Start Num: 53
Candidate Starts for Chiqui_62:
(Start: 22 @42188 has 121 MA's), (35, 42155), (Start: 53 @42131 has 11 MA's), (86, 41981), (91, 41963), (95, 41942),

Gene: ChristmasHams_60 Start: 40214, Stop: 39921, Start Num: 38
Candidate Starts for ChristmasHams_60:
(Start: 38 @40214 has 228 MA's), (Start: 62 @40169 has 1 MA's), (67, 40139), (76, 40091), (83, 40049),

Gene: Chupacabra_62 Start: 41312, Stop: 41004, Start Num: 22
Candidate Starts for Chupacabra_62:
(Start: 22 @41312 has 121 MA's), (46, 41270), (61, 41246), (85, 41123), (91, 41099), (101, 41024),

Gene: Ciao_63 Start: 41412, Stop: 41119, Start Num: 38
Candidate Starts for Ciao_63:
(Start: 22 @41439 has 121 MA's), (Start: 38 @41412 has 228 MA's), (Start: 62 @41367 has 1 MA's), (67, 41337), (76, 41289), (83, 41247),

Gene: Clammy_69 Start: 42204, Stop: 41836, Start Num: 22
Candidate Starts for Clammy_69:
(Start: 22 @42204 has 121 MA's), (31, 42183), (35, 42171), (Start: 53 @42147 has 11 MA's), (86, 41997), (91, 41979), (95, 41958),

Gene: ClownCar_71 Start: 42251, Stop: 41943, Start Num: 22
Candidate Starts for ClownCar_71:
(Start: 22 @42251 has 121 MA's), (Start: 30 @42233 has 8 MA's), (35, 42218), (Start: 53 @42197 has 11 MA's), (66, 42164), (76, 42113), (78, 42104), (81, 42077), (83, 42071), (85, 42062), (91, 42038),

Gene: CogOmlette_70 Start: 42327, Stop: 42025, Start Num: 36
Candidate Starts for CogOmlette_70:

(8, 42537), (Start: 36 @42327 has 6 MA's), (83, 42165), (95, 42111),

Gene: Colbster_68 Start: 42445, Stop: 42137, Start Num: 22
Candidate Starts for Colbster_68:
(Start: 22 @42445 has 121 MA's), (Start: 30 @42427 has 8 MA's), (35, 42412), (Start: 53 @42391 has 11 MA's), (66, 42358), (76, 42307), (78, 42298), (81, 42271), (83, 42265), (91, 42232),

Gene: Colin_70 Start: 43242, Stop: 42997, Start Num: 60
Candidate Starts for Colin_70:
(Start: 58 @43248 has 1 MA's), (Start: 60 @43242 has 25 MA's), (78, 43161), (83, 43128), (91, 43095), (93, 43086), (95, 43074), (100, 43023),

Gene: ConceptII_70 Start: 44031, Stop: 43738, Start Num: 38
Candidate Starts for ConceptII_70:
(Start: 22 @44058 has 121 MA's), (Start: 38 @44031 has 228 MA's), (Start: 62 @43986 has 1 MA's), (67, 43956), (76, 43908), (83, 43866),

Gene: Conquerage_71 Start: 42370, Stop: 42092, Start Num: 45
Candidate Starts for Conquerage_71:
(Start: 45 @42370 has 31 MA's), (77, 42262), (86, 42208), (88, 42199), (95, 42169),

Gene: Coog_62 Start: 41634, Stop: 41383, Start Num: 54
Candidate Starts for Coog_62:
(Start: 54 @41634 has 9 MA's), (Start: 59 @41622 has 2 MA's), (78, 41541), (79, 41526), (93, 41463), (97, 41418), (101, 41397), (103, 41391),

Gene: Cookiedough_71 Start: 41299, Stop: 41051, Start Num: 60
Candidate Starts for Cookiedough_71:
(10, 41539), (17, 41467), (23, 41386), (39, 41341), (Start: 60 @41299 has 25 MA's), (76, 41224), (83, 41182), (90, 41152), (93, 41140),

Gene: Corvo_66 Start: 43343, Stop: 43050, Start Num: 38
Candidate Starts for Corvo_66:
(Start: 22 @43370 has 121 MA's), (Start: 38 @43343 has 228 MA's), (Start: 62 @43298 has 1 MA's), (67, 43268), (76, 43220), (83, 43178),

Gene: Crispicous1_63 Start: 41754, Stop: 41461, Start Num: 38
Candidate Starts for Crispicous1_63:
(Start: 22 @41781 has 121 MA's), (Start: 38 @41754 has 228 MA's), (Start: 62 @41709 has 1 MA's), (67, 41679), (76, 41631), (83, 41589),

Gene: Cuco_64 Start: 41482, Stop: 41243, Start Num: 59
Candidate Starts for Cuco_64:
(Start: 54 @41494 has 9 MA's), (Start: 59 @41482 has 2 MA's), (78, 41401), (79, 41386), (93, 41323), (97, 41278), (101, 41257), (103, 41251),

Gene: Cueylyss_65 Start: 43690, Stop: 43397, Start Num: 38
Candidate Starts for Cueylyss_65:
(Start: 38 @43690 has 228 MA's), (Start: 62 @43645 has 1 MA's), (67, 43615), (71, 43603), (76, 43567), (83, 43525),

Gene: Cullens_72 Start: 42441, Stop: 42133, Start Num: 22
Candidate Starts for Cullens_72:

(Start: 22 @42441 has 121 MA's), (Start: 30 @42423 has 8 MA's), (35, 42408), (Start: 53 @42387 has 11 MA's), (66, 42354), (76, 42303), (78, 42294), (81, 42267), (83, 42261), (91, 42228),

Gene: DD5_66 Start: 43578, Stop: 43285, Start Num: 38
Candidate Starts for DD5_66:
(Start: 22 @43605 has 121 MA's), (Start: 38 @43578 has 228 MA's), (Start: 62 @43533 has 1 MA's), (67, 43503), (76, 43455), (83, 43413),

Gene: DaHudson_71 Start: 42434, Stop: 42126, Start Num: 22
Candidate Starts for DaHudson_71:
(Start: 22 @42434 has 121 MA's), (Start: 30 @42416 has 8 MA's), (35, 42401), (Start: 53 @42380 has 11 MA's), (66, 42347), (76, 42296), (78, 42287), (81, 42260), (83, 42254), (91, 42221),

Gene: Daishi_71 Start: 41292, Stop: 41002, Start Num: 30
Candidate Starts for Daishi_71:
(Start: 30 @41292 has 8 MA's), (35, 41277), (Start: 53 @41256 has 11 MA's), (66, 41223), (76, 41172), (78, 41163), (81, 41136), (83, 41130), (91, 41097),

Gene: Dalmatian_71 Start: 43225, Stop: 42947, Start Num: 47
Candidate Starts for Dalmatian_71:
(Start: 47 @43225 has 6 MA's), (Start: 64 @43186 has 39 MA's), (78, 43111), (83, 43078), (91, 43045), (93, 43036), (95, 43024), (102, 42967),

Gene: Darrell_74 Start: 43196, Stop: 42921, Start Num: 36
Candidate Starts for Darrell_74:
(13, 43346), (15, 43328), (Start: 36 @43196 has 6 MA's), (77, 43094), (83, 43055), (95, 43001),

Gene: DarthPhader_68 Start: 43667, Stop: 43356, Start Num: 26
Candidate Starts for DarthPhader_68:
(11, 43808), (24, 43670), (Start: 26 @43667 has 3 MA's), (Start: 49 @43619 has 7 MA's), (70, 43568), (76, 43529), (78, 43520), (83, 43487), (100, 43382),

Gene: DeerParkTS_67 Start: 42018, Stop: 41779, Start Num: 64
Candidate Starts for DeerParkTS_67:
(Start: 47 @42057 has 6 MA's), (Start: 64 @42018 has 39 MA's), (78, 41943), (83, 41910), (91, 41877), (95, 41856),

Gene: DekHockey33_81 Start: 43657, Stop: 43379, Start Num: 50
Candidate Starts for DekHockey33_81:
(21, 43717), (Start: 50 @43657 has 26 MA's), (73, 43579), (78, 43540), (83, 43507), (90, 43477), (91, 43474), (95, 43453), (97, 43420),

Gene: Deloris_70 Start: 42746, Stop: 42507, Start Num: 64
Candidate Starts for Deloris_70:
(Start: 47 @42785 has 6 MA's), (Start: 64 @42746 has 39 MA's), (70, 42719), (78, 42671), (83, 42638), (91, 42605), (93, 42596), (95, 42584), (102, 42527),

Gene: DelvinSonDorr_68 Start: 41542, Stop: 41282, Start Num: 57
Candidate Starts for DelvinSonDorr_68:
(57, 41542), (Start: 60 @41533 has 25 MA's), (76, 41455), (83, 41413), (90, 41383), (93, 41371),

Gene: Dexes_66 Start: 43299, Stop: 43006, Start Num: 38
Candidate Starts for Dexes_66:

(Start: 38 @43299 has 228 MA's), (Start: 62 @43254 has 1 MA's), (76, 43176), (83, 43134),

Gene: Dieselweasel_72 Start: 42426, Stop: 42136, Start Num: 30
Candidate Starts for Dieselweasel_72:
(Start: 30 @42426 has 8 MA's), (35, 42411), (Start: 53 @42390 has 11 MA's), (66, 42357), (76, 42306), (78, 42297), (81, 42270), (83, 42264), (91, 42231),

Gene: DirtDevil_63 Start: 42001, Stop: 41708, Start Num: 38
Candidate Starts for DirtDevil_63:
(Start: 22 @42028 has 121 MA's), (Start: 38 @42001 has 228 MA's), (67, 41926), (76, 41878), (83, 41836),

Gene: DontArgue_61 Start: 40445, Stop: 40131, Start Num: 22
Candidate Starts for DontArgue_61:
(Start: 22 @40445 has 121 MA's), (46, 40394), (61, 40370), (76, 40301), (86, 40244), (91, 40226), (93, 40217),

Gene: Doom_63 Start: 42899, Stop: 42606, Start Num: 38
Candidate Starts for Doom_63:
(Start: 38 @42899 has 228 MA's), (Start: 62 @42854 has 1 MA's), (67, 42824), (76, 42776), (83, 42734),

Gene: Dorothea_71 Start: 41297, Stop: 41049, Start Num: 60
Candidate Starts for Dorothea_71:
(10, 41537), (17, 41465), (23, 41384), (39, 41339), (Start: 60 @41297 has 25 MA's), (76, 41222), (83, 41180), (90, 41150), (93, 41138),

Gene: DrFeelGood_64 Start: 41833, Stop: 41540, Start Num: 38
Candidate Starts for DrFeelGood_64:
(Start: 22 @41860 has 121 MA's), (Start: 38 @41833 has 228 MA's), (Start: 62 @41788 has 1 MA's), (67, 41758), (76, 41710), (83, 41668),

Gene: Drake55_72 Start: 43111, Stop: 42872, Start Num: 64
Candidate Starts for Drake55_72:
(Start: 64 @43111 has 39 MA's), (70, 43084), (71, 43081), (78, 43036), (83, 43003), (91, 42970), (93, 42961), (95, 42949),

Gene: Drake94_62 Start: 40387, Stop: 40079, Start Num: 22
Candidate Starts for Drake94_62:
(Start: 22 @40387 has 121 MA's), (46, 40345), (61, 40321), (76, 40249), (85, 40198), (91, 40174), (101, 40099),

Gene: DreamCatcher_68 Start: 42983, Stop: 42690, Start Num: 38
Candidate Starts for DreamCatcher_68:
(Start: 22 @43010 has 121 MA's), (Start: 38 @42983 has 228 MA's), (Start: 62 @42938 has 1 MA's), (67, 42908), (76, 42860), (83, 42818),

Gene: DreamTeam1_67 Start: 41535, Stop: 41248, Start Num: 41
Candidate Starts for DreamTeam1_67:
(Start: 41 @41535 has 1 MA's), (76, 41421), (77, 41418), (86, 41364), (88, 41355), (95, 41325),

Gene: Dreamboat_68 Start: 42073, Stop: 41780, Start Num: 38
Candidate Starts for Dreamboat_68:

(Start: 22 @42100 has 121 MA's), (Start: 38 @42073 has 228 MA's), (Start: 62 @42028 has 1 MA's), (67, 41998), (76, 41950), (83, 41908),

Gene: DropBear_68 Start: 42103, Stop: 41738, Start Num: 22
Candidate Starts for DropBear_68:
(Start: 22 @42103 has 121 MA's), (31, 42082), (35, 42070), (Start: 53 @42046 has 11 MA's), (86, 41896), (91, 41878), (93, 41869), (95, 41857),

Gene: DudeLittle_69 Start: 42991, Stop: 42713, Start Num: 47
Candidate Starts for DudeLittle_69:
(Start: 47 @42991 has 6 MA's), (Start: 64 @42952 has 39 MA's), (78, 42877), (83, 42844), (91, 42811), (93, 42802), (95, 42790), (102, 42733),

Gene: Dulcie_66 Start: 44308, Stop: 44015, Start Num: 38
Candidate Starts for Dulcie_66:
(Start: 38 @44308 has 228 MA's), (Start: 62 @44263 has 1 MA's), (67, 44233), (76, 44185), (83, 44143),

Gene: Dussy_67 Start: 43292, Stop: 42999, Start Num: 38
Candidate Starts for Dussy_67:
(Start: 38 @43292 has 228 MA's), (Start: 62 @43247 has 1 MA's), (67, 43217), (76, 43169), (83, 43127),

Gene: DustyMartin_66 Start: 41423, Stop: 41115, Start Num: 22
Candidate Starts for DustyMartin_66:
(Start: 22 @41423 has 121 MA's), (46, 41381), (61, 41357), (76, 41285), (86, 41228), (91, 41210), (101, 41135),

Gene: Dynamix_67 Start: 41907, Stop: 41614, Start Num: 38
Candidate Starts for Dynamix_67:
(Start: 22 @41934 has 121 MA's), (Start: 38 @41907 has 228 MA's), (Start: 62 @41862 has 1 MA's), (67, 41832), (76, 41784), (83, 41742),

Gene: EagleEye_76 Start: 43298, Stop: 43038, Start Num: 55
Candidate Starts for EagleEye_76:
(16, 43454), (27, 43364), (32, 43346), (Start: 34 @43340 has 1 MA's), (Start: 55 @43298 has 2 MA's), (82, 43160), (95, 43103),

Gene: Eaglepride_66 Start: 41419, Stop: 41111, Start Num: 22
Candidate Starts for Eaglepride_66:
(Start: 22 @41419 has 121 MA's), (33, 41401), (46, 41377), (61, 41353), (76, 41281), (86, 41224), (91, 41206), (93, 41197), (101, 41131),

Gene: Edison31_61 Start: 41187, Stop: 40879, Start Num: 22
Candidate Starts for Edison31_61:
(Start: 22 @41187 has 121 MA's), (46, 41145), (61, 41121), (85, 40998), (86, 40992), (91, 40974), (101, 40899),

Gene: EdogawaKiddo_73 Start: 42661, Stop: 42383, Start Num: 45
Candidate Starts for EdogawaKiddo_73:
(Start: 45 @42661 has 31 MA's), (77, 42553), (86, 42499), (88, 42490), (95, 42460),

Gene: Edtherson_64 Start: 42893, Stop: 42600, Start Num: 38

Candidate Starts for Edtherson_64:
(Start: 22 @42920 has 121 MA's), (Start: 38 @42893 has 228 MA's), (Start: 62 @42848 has 1 MA's), (67, 42818), (76, 42770), (83, 42728),

Gene: Eidsmoe_71 Start: 42362, Stop: 42084, Start Num: 45
Candidate Starts for Eidsmoe_71:
(Start: 45 @42362 has 31 MA's), (77, 42254), (86, 42200), (88, 42191), (95, 42161),

Gene: Elephantoon_73 Start: 42479, Stop: 42192, Start Num: 37
Candidate Starts for Elephantoon_73:
(Start: 37 @42479 has 2 MA's), (42, 42473), (70, 42413), (77, 42371), (83, 42332), (95, 42278),

Gene: EmyBug_70 Start: 42364, Stop: 42086, Start Num: 45
Candidate Starts for EmyBug_70:
(Start: 45 @42364 has 31 MA's), (77, 42256), (86, 42202), (88, 42193), (95, 42163),

Gene: EnzoK_66 Start: 40168, Stop: 39875, Start Num: 38
Candidate Starts for EnzoK_66:
(Start: 38 @40168 has 228 MA's), (Start: 62 @40123 has 1 MA's), (67, 40093), (76, 40045), (83, 40003),

Gene: EpicPhail_73 Start: 42445, Stop: 42137, Start Num: 22
Candidate Starts for EpicPhail_73:
(Start: 22 @42445 has 121 MA's), (Start: 30 @42427 has 8 MA's), (35, 42412), (Start: 53 @42391 has 11 MA's), (66, 42358), (76, 42307), (78, 42298), (81, 42271), (83, 42265), (91, 42232),

Gene: Epsocamisio_76 Start: 42795, Stop: 42517, Start Num: 50
Candidate Starts for Epsocamisio_76:
(Start: 50 @42795 has 26 MA's), (73, 42717), (78, 42678), (83, 42645), (90, 42615), (91, 42612), (95, 42591), (97, 42558),

Gene: Equemioh13_70 Start: 42915, Stop: 42676, Start Num: 64
Candidate Starts for Equemioh13_70:
(Start: 64 @42915 has 39 MA's), (70, 42888), (71, 42885), (78, 42840), (83, 42807), (91, 42774), (93, 42765), (95, 42753),

Gene: Espresso_63 Start: 42517, Stop: 42224, Start Num: 38
Candidate Starts for Espresso_63:
(Start: 38 @42517 has 228 MA's), (Start: 62 @42472 has 1 MA's), (67, 42442), (71, 42430), (76, 42394), (83, 42352),

Gene: EtoileNova_65 Start: 42164, Stop: 41793, Start Num: 22
Candidate Starts for EtoileNova_65:
(Start: 22 @42164 has 121 MA's), (35, 42131), (Start: 53 @42107 has 11 MA's), (76, 42011), (86, 41954), (91, 41936), (95, 41915),

Gene: Euphoria_65 Start: 42359, Stop: 42066, Start Num: 38
Candidate Starts for Euphoria_65:
(Start: 22 @42386 has 121 MA's), (Start: 38 @42359 has 228 MA's), (Start: 62 @42314 has 1 MA's), (67, 42284), (76, 42236), (83, 42194),

Gene: ExplosioNervosa_71 Start: 42430, Stop: 42152, Start Num: 45
Candidate Starts for ExplosioNervosa_71:

(Start: 45 @42430 has 31 MA's), (77, 42322), (86, 42268), (88, 42259), (95, 42229),

Gene: Eyeball_67 Start: 43398, Stop: 43105, Start Num: 38
Candidate Starts for Eyeball_67:
(28, 43434), (Start: 38 @43398 has 228 MA's), (Start: 62 @43353 has 1 MA's), (67, 43323), (76, 43275), (83, 43233),

Gene: Fajezeel_66 Start: 42114, Stop: 41821, Start Num: 38
Candidate Starts for Fajezeel_66:
(Start: 22 @42141 has 121 MA's), (Start: 38 @42114 has 228 MA's), (Start: 62 @42069 has 1 MA's), (67, 42039), (76, 41991), (83, 41949),

Gene: Farber_72 Start: 42431, Stop: 42123, Start Num: 22
Candidate Starts for Farber_72:
(Start: 22 @42431 has 121 MA's), (Start: 30 @42413 has 8 MA's), (35, 42398), (Start: 53 @42377 has 11 MA's), (66, 42344), (76, 42293), (78, 42284), (81, 42257), (83, 42251), (91, 42218),

Gene: Fascinus_61 Start: 42349, Stop: 42056, Start Num: 38
Candidate Starts for Fascinus_61:
(Start: 22 @42376 has 121 MA's), (Start: 38 @42349 has 228 MA's), (Start: 62 @42304 has 1 MA's), (67, 42274), (71, 42262), (76, 42226), (83, 42184),

Gene: FatCactus_58 Start: 38993, Stop: 38727, Start Num: 50
Candidate Starts for FatCactus_58:
(Start: 50 @38993 has 26 MA's), (72, 38930), (83, 38855), (85, 38846), (86, 38840), (93, 38813), (96, 38789),

Gene: Fayely_71 Start: 42331, Stop: 42053, Start Num: 45
Candidate Starts for Fayely_71:
(Start: 45 @42331 has 31 MA's), (77, 42223), (86, 42169), (88, 42160), (95, 42130),

Gene: Fenn_72 Start: 44750, Stop: 44457, Start Num: 38
Candidate Starts for Fenn_72:
(Start: 22 @44795 has 121 MA's), (Start: 30 @44777 has 8 MA's), (Start: 38 @44750 has 228 MA's), (Start: 62 @44705 has 1 MA's), (67, 44675), (76, 44627), (83, 44585),

Gene: Fernando_72 Start: 42441, Stop: 42133, Start Num: 22
Candidate Starts for Fernando_72:
(Start: 22 @42441 has 121 MA's), (Start: 30 @42423 has 8 MA's), (35, 42408), (Start: 53 @42387 has 11 MA's), (66, 42354), (76, 42303), (78, 42294), (81, 42267), (83, 42261), (91, 42228),

Gene: First_0071 Start: 42973, Stop: 42734, Start Num: 64
Candidate Starts for First_0071:
(Start: 47 @43012 has 6 MA's), (Start: 64 @42973 has 39 MA's), (78, 42898), (83, 42865), (91, 42832), (93, 42823), (95, 42811), (102, 42754),

Gene: Flare16_71 Start: 43054, Stop: 42815, Start Num: 64
Candidate Starts for Flare16_71:
(Start: 47 @43093 has 6 MA's), (Start: 64 @43054 has 39 MA's), (70, 43027), (71, 43024), (78, 42979), (83, 42946), (91, 42913), (93, 42904), (95, 42892), (102, 42835),

Gene: FlyCatcher_70 Start: 45930, Stop: 45607, Start Num: 40
Candidate Starts for FlyCatcher_70:

(Start: 22 @45966 has 121 MA's), (40, 45930), (76, 45825), (86, 45768), (91, 45750), (95, 45729),

Gene: Forsytheast_67 Start: 42412, Stop: 42119, Start Num: 38
Candidate Starts for Forsytheast_67:
(Start: 22 @42439 has 121 MA's), (Start: 38 @42412 has 228 MA's), (Start: 62 @42367 has 1 MA's), (67, 42337), (76, 42289), (83, 42247),

Gene: Francis47_65 Start: 43491, Stop: 43198, Start Num: 38
Candidate Starts for Francis47_65:
(Start: 38 @43491 has 228 MA's), (Start: 62 @43446 has 1 MA's), (67, 43416), (76, 43368), (83, 43326),

Gene: Fred313_65 Start: 41797, Stop: 41432, Start Num: 22
Candidate Starts for Fred313_65:
(Start: 22 @41797 has 121 MA's), (31, 41776), (35, 41764), (Start: 53 @41740 has 11 MA's), (86, 41590), (91, 41572), (93, 41563), (95, 41551),

Gene: Froghopper_63 Start: 41471, Stop: 41178, Start Num: 38
Candidate Starts for Froghopper_63:
(Start: 22 @41498 has 121 MA's), (Start: 38 @41471 has 228 MA's), (Start: 62 @41426 has 1 MA's), (67, 41396), (76, 41348), (83, 41306),

Gene: Fushigi_61 Start: 40434, Stop: 40141, Start Num: 38
Candidate Starts for Fushigi_61:
(Start: 22 @40461 has 121 MA's), (Start: 38 @40434 has 228 MA's), (Start: 62 @40389 has 1 MA's), (67, 40359), (76, 40311), (83, 40269),

Gene: GMonster_64 Start: 42254, Stop: 41961, Start Num: 38
Candidate Starts for GMonster_64:
(Start: 22 @42281 has 121 MA's), (Start: 38 @42254 has 228 MA's), (Start: 62 @42209 has 1 MA's), (67, 42179), (76, 42131),

Gene: Gachnar_66 Start: 42948, Stop: 42655, Start Num: 38
Candidate Starts for Gachnar_66:
(Start: 38 @42948 has 228 MA's), (Start: 62 @42903 has 1 MA's), (67, 42873), (76, 42825), (83, 42783),

Gene: GageAP_67 Start: 43435, Stop: 43142, Start Num: 38
Candidate Starts for GageAP_67:
(4, 43693), (7, 43657), (Start: 22 @43462 has 121 MA's), (Start: 38 @43435 has 228 MA's), (Start: 62 @43390 has 1 MA's), (67, 43360), (71, 43348), (76, 43312), (83, 43270),

Gene: Gail_72 Start: 43458, Stop: 43192, Start Num: 52
Candidate Starts for Gail_72:
(Start: 37 @43482 has 2 MA's), (Start: 49 @43461 has 7 MA's), (Start: 52 @43458 has 1 MA's), (77, 43362), (82, 43326), (83, 43323), (93, 43281), (95, 43269), (100, 43218),

Gene: Gandalf20_68 Start: 43802, Stop: 43509, Start Num: 38
Candidate Starts for Gandalf20_68:
(Start: 38 @43802 has 228 MA's), (Start: 62 @43757 has 1 MA's), (67, 43727), (71, 43715), (76, 43679), (83, 43637),

Gene: Gemma_69 Start: 42254, Stop: 41946, Start Num: 22

Candidate Starts for Gemma_69:
(Start: 22 @42254 has 121 MA's), (Start: 30 @42236 has 8 MA's), (35, 42221), (Start: 53 @42200 has 11 MA's), (66, 42167), (76, 42116), (78, 42107), (81, 42080), (83, 42074), (85, 42065), (91, 42041),

Gene: Ghoulboy_65 Start: 41861, Stop: 41610, Start Num: 54
Candidate Starts for Ghoulboy_65:
(Start: 54 @41861 has 9 MA's), (Start: 59 @41849 has 2 MA's), (76, 41777), (78, 41768), (79, 41753), (93, 41690), (97, 41645), (101, 41624), (103, 41618),

Gene: GingkoMaracino_72 Start: 42309, Stop: 42019, Start Num: 30
Candidate Starts for GingkoMaracino_72:
(Start: 22 @42327 has 121 MA's), (Start: 30 @42309 has 8 MA's), (35, 42294), (Start: 53 @42273 has 11 MA's), (66, 42240), (76, 42189), (78, 42180), (81, 42153), (83, 42147), (91, 42114),

Gene: Giroux_70 Start: 42203, Stop: 41835, Start Num: 22
Candidate Starts for Giroux_70:
(Start: 22 @42203 has 121 MA's), (31, 42182), (35, 42170), (Start: 53 @42146 has 11 MA's), (86, 41996), (91, 41978), (95, 41957),

Gene: Gladiator_69 Start: 40925, Stop: 40677, Start Num: 60
Candidate Starts for Gladiator_69:
(10, 41165), (17, 41093), (23, 41012), (39, 40967), (Start: 60 @40925 has 25 MA's), (76, 40850), (83, 40808), (90, 40778), (93, 40766),

Gene: Gompeii16_66 Start: 44565, Stop: 44272, Start Num: 38
Candidate Starts for Gompeii16_66:
(Start: 38 @44565 has 228 MA's), (Start: 62 @44520 has 1 MA's), (67, 44490), (76, 44442), (83, 44400),

Gene: Goose_65 Start: 41128, Stop: 40820, Start Num: 22
Candidate Starts for Goose_65:
(Start: 22 @41128 has 121 MA's), (46, 41086), (61, 41062), (85, 40939), (91, 40915), (101, 40840),

Gene: Goose1D_59 Start: 38284, Stop: 37919, Start Num: 22
Candidate Starts for Goose1D_59:
(Start: 22 @38284 has 121 MA's), (31, 38263), (35, 38251), (Start: 53 @38227 has 11 MA's), (86, 38077), (91, 38059), (93, 38050), (95, 38038),

Gene: Goose1X_65 Start: 41426, Stop: 41061, Start Num: 22
Candidate Starts for Goose1X_65:
(Start: 22 @41426 has 121 MA's), (31, 41405), (35, 41393), (Start: 53 @41369 has 11 MA's), (86, 41219), (91, 41201), (93, 41192), (95, 41180),

Gene: Graduation_71 Start: 44181, Stop: 43888, Start Num: 38
Candidate Starts for Graduation_71:
(Start: 22 @44208 has 121 MA's), (Start: 38 @44181 has 228 MA's), (Start: 62 @44136 has 1 MA's), (67, 44106), (71, 44094), (76, 44058), (83, 44016),

Gene: Gratitude_70 Start: 42915, Stop: 42676, Start Num: 64
Candidate Starts for Gratitude_70:
(Start: 64 @42915 has 39 MA's), (70, 42888), (71, 42885), (78, 42840), (83, 42807), (91, 42774), (93, 42765), (95, 42753),

Gene: GrecoEtereo_65 Start: 41688, Stop: 41395, Start Num: 38
Candidate Starts for GrecoEtereo_65:
(Start: 22 @41715 has 121 MA's), (Start: 38 @41688 has 228 MA's), (Start: 62 @41643 has 1 MA's), (67, 41613), (76, 41565), (83, 41523),

Gene: Greg_66 Start: 42114, Stop: 41821, Start Num: 38
Candidate Starts for Greg_66:
(Start: 22 @42141 has 121 MA's), (Start: 38 @42114 has 228 MA's), (Start: 62 @42069 has 1 MA's), (67, 42039), (76, 41991), (83, 41949),

Gene: GroundGoblin_62 Start: 42143, Stop: 41850, Start Num: 38
Candidate Starts for GroundGoblin_62:
(Start: 22 @42170 has 121 MA's), (Start: 38 @42143 has 228 MA's), (67, 42068), (76, 42020), (83, 41978),

Gene: Groupthink_72 Start: 42258, Stop: 41950, Start Num: 22
Candidate Starts for Groupthink_72:
(Start: 22 @42258 has 121 MA's), (Start: 30 @42240 has 8 MA's), (35, 42225), (Start: 53 @42204 has 11 MA's), (66, 42171), (76, 42120), (78, 42111), (81, 42084), (83, 42078), (91, 42045),

Gene: Grub_70 Start: 42433, Stop: 42125, Start Num: 22
Candidate Starts for Grub_70:
(Start: 22 @42433 has 121 MA's), (Start: 30 @42415 has 8 MA's), (35, 42400), (Start: 53 @42379 has 11 MA's), (66, 42346), (76, 42295), (78, 42286), (81, 42259), (83, 42253), (91, 42220),

Gene: Grum1_71 Start: 42441, Stop: 42133, Start Num: 22
Candidate Starts for Grum1_71:
(Start: 22 @42441 has 121 MA's), (Start: 30 @42423 has 8 MA's), (35, 42408), (Start: 53 @42387 has 11 MA's), (66, 42354), (76, 42303), (78, 42294), (81, 42267), (83, 42261), (91, 42228),

Gene: Gwendoluna_70 Start: 44629, Stop: 44336, Start Num: 38
Candidate Starts for Gwendoluna_70:
(Start: 22 @44656 has 121 MA's), (Start: 38 @44629 has 228 MA's), (Start: 62 @44584 has 1 MA's), (67, 44554), (76, 44506), (83, 44464),

Gene: Gwennie_72 Start: 42445, Stop: 42137, Start Num: 22
Candidate Starts for Gwennie_72:
(Start: 22 @42445 has 121 MA's), (Start: 30 @42427 has 8 MA's), (35, 42412), (Start: 53 @42391 has 11 MA's), (66, 42358), (76, 42307), (78, 42298), (81, 42271), (83, 42265), (91, 42232),

Gene: Gyzlar_61 Start: 40384, Stop: 40091, Start Num: 38
Candidate Starts for Gyzlar_61:
(Start: 22 @40411 has 121 MA's), (Start: 38 @40384 has 228 MA's), (Start: 62 @40339 has 1 MA's), (76, 40261), (83, 40219),

Gene: Hami1_61 Start: 38461, Stop: 38168, Start Num: 38
Candidate Starts for Hami1_61:
(Start: 38 @38461 has 228 MA's), (Start: 62 @38416 has 1 MA's), (67, 38386), (76, 38338), (83, 38296),

Gene: HanShotFirst_67 Start: 44227, Stop: 43934, Start Num: 38
Candidate Starts for HanShotFirst_67:

(Start: 22 @44254 has 121 MA's), (Start: 38 @44227 has 228 MA's), (Start: 62 @44182 has 1 MA's), (67, 44152), (76, 44104), (83, 44062),

Gene: Hanray_73 Start: 42693, Stop: 42415, Start Num: 45
Candidate Starts for Hanray_73:
(Start: 45 @42693 has 31 MA's), (77, 42585), (86, 42531), (88, 42522), (95, 42492),

Gene: HarryHoudini_71 Start: 43112, Stop: 42873, Start Num: 64
Candidate Starts for HarryHoudini_71:
(Start: 64 @43112 has 39 MA's), (70, 43085), (71, 43082), (78, 43037), (83, 43004), (91, 42971), (93, 42962), (95, 42950),

Gene: HarryOW_63 Start: 42195, Stop: 41902, Start Num: 38
Candidate Starts for HarryOW_63:
(Start: 22 @42222 has 121 MA's), (Start: 38 @42195 has 228 MA's), (67, 42120), (76, 42072), (83, 42030),

Gene: HaveUMetTed_72 Start: 42243, Stop: 41935, Start Num: 22
Candidate Starts for HaveUMetTed_72:
(Start: 22 @42243 has 121 MA's), (Start: 30 @42225 has 8 MA's), (35, 42210), (Start: 53 @42189 has 11 MA's), (66, 42156), (76, 42105), (78, 42096), (81, 42069), (83, 42063), (85, 42054), (91, 42030),

Gene: Heathen_67 Start: 41892, Stop: 41527, Start Num: 22
Candidate Starts for Heathen_67:
(Start: 22 @41892 has 121 MA's), (31, 41871), (35, 41859), (Start: 53 @41835 has 11 MA's), (86, 41685), (91, 41667), (93, 41658), (95, 41646),

Gene: HelDan_67 Start: 42108, Stop: 41743, Start Num: 22
Candidate Starts for HelDan_67:
(Start: 22 @42108 has 121 MA's), (31, 42087), (35, 42075), (Start: 53 @42051 has 11 MA's), (86, 41901), (91, 41883), (93, 41874), (95, 41862),

Gene: Heliosoles_69 Start: 42261, Stop: 41953, Start Num: 22
Candidate Starts for Heliosoles_69:
(Start: 22 @42261 has 121 MA's), (Start: 30 @42243 has 8 MA's), (35, 42228), (Start: 53 @42207 has 11 MA's), (66, 42174), (76, 42123), (78, 42114), (81, 42087), (83, 42081), (91, 42048),

Gene: Hercules11_72 Start: 42450, Stop: 42142, Start Num: 22
Candidate Starts for Hercules11_72:
(Start: 22 @42450 has 121 MA's), (Start: 30 @42432 has 8 MA's), (35, 42417), (Start: 53 @42396 has 11 MA's), (66, 42363), (76, 42312), (78, 42303), (81, 42276), (83, 42270), (91, 42237),

Gene: Hermia_63 Start: 42193, Stop: 41900, Start Num: 38
Candidate Starts for Hermia_63:
(Start: 22 @42220 has 121 MA's), (Start: 38 @42193 has 228 MA's), (67, 42118), (76, 42070), (83, 42028),

Gene: HermioneGrange_68 Start: 43698, Stop: 43405, Start Num: 38
Candidate Starts for HermioneGrange_68:
(5, 43926), (Start: 22 @43725 has 121 MA's), (Start: 38 @43698 has 228 MA's), (Start: 62 @43653 has 1 MA's), (67, 43623), (76, 43575), (83, 43533),

Gene: HippoHollow_70 Start: 44278, Stop: 44036, Start Num: 64

Candidate Starts for HippoHollow_70:
(Start: 47 @44317 has 6 MA's), (Start: 64 @44278 has 39 MA's), (78, 44203), (83, 44170), (91, 44137), (93, 44128), (95, 44116),

Gene: Holex_73 Start: 42709, Stop: 42431, Start Num: 45
Candidate Starts for Holex_73:
(Start: 45 @42709 has 31 MA's), (77, 42601), (86, 42547), (88, 42538), (95, 42508),

Gene: Homines_57 Start: 38523, Stop: 38230, Start Num: 38
Candidate Starts for Homines_57:
(Start: 22 @38550 has 121 MA's), (Start: 38 @38523 has 228 MA's), (Start: 62 @38478 has 1 MA's), (67, 38448), (76, 38400), (83, 38358),

Gene: Hookmount_67 Start: 42161, Stop: 41790, Start Num: 22
Candidate Starts for Hookmount_67:
(Start: 22 @42161 has 121 MA's), (35, 42128), (Start: 53 @42104 has 11 MA's), (76, 42008), (86, 41951), (91, 41933), (95, 41912),

Gene: Hope4ever_67 Start: 42682, Stop: 42389, Start Num: 38
Candidate Starts for Hope4ever_67:
(Start: 22 @42709 has 121 MA's), (Start: 38 @42682 has 228 MA's), (Start: 62 @42637 has 1 MA's), (67, 42607), (76, 42559), (83, 42517),

Gene: HortumSL17_74 Start: 42693, Stop: 42415, Start Num: 45
Candidate Starts for HortumSL17_74:
(Start: 45 @42693 has 31 MA's), (77, 42585), (86, 42531), (88, 42522), (95, 42492),

Gene: ILeeKay_68 Start: 42579, Stop: 42286, Start Num: 38
Candidate Starts for ILeeKay_68:
(Start: 38 @42579 has 228 MA's), (Start: 62 @42534 has 1 MA's), (67, 42504), (76, 42456), (83, 42414),

Gene: Ichabod_70 Start: 43792, Stop: 43499, Start Num: 38
Candidate Starts for Ichabod_70:
(Start: 22 @43819 has 121 MA's), (Start: 38 @43792 has 228 MA's), (Start: 62 @43747 has 1 MA's), (67, 43717), (76, 43669), (83, 43627),

Gene: Idleandcovert_68 Start: 42204, Stop: 41836, Start Num: 22
Candidate Starts for Idleandcovert_68:
(Start: 22 @42204 has 121 MA's), (31, 42183), (35, 42171), (Start: 53 @42147 has 11 MA's), (86, 41997), (91, 41979), (95, 41958),

Gene: IgnatiusPatJac_66 Start: 42364, Stop: 42071, Start Num: 38
Candidate Starts for IgnatiusPatJac_66:
(Start: 22 @42391 has 121 MA's), (Start: 38 @42364 has 228 MA's), (Start: 62 @42319 has 1 MA's), (67, 42289), (76, 42241), (83, 42199),

Gene: Imbriano_73 Start: 41689, Stop: 41441, Start Num: 60
Candidate Starts for Imbriano_73:
(10, 41929), (17, 41857), (23, 41776), (39, 41731), (Start: 60 @41689 has 25 MA's), (76, 41614), (83, 41572), (90, 41542), (93, 41530),

Gene: Inyanga_61 Start: 42487, Stop: 42194, Start Num: 38

Candidate Starts for Inyanga_61:
(Start: 22 @42514 has 121 MA's), (Start: 38 @42487 has 228 MA's), (Start: 62 @42442 has 1 MA's), (67, 42412), (76, 42364), (83, 42322),

Gene: Iqorha_61 Start: 42486, Stop: 42193, Start Num: 38
Candidate Starts for Iqorha_61:
(Start: 22 @42513 has 121 MA's), (Start: 38 @42486 has 228 MA's), (Start: 62 @42441 has 1 MA's), (67, 42411), (76, 42363), (83, 42321),

Gene: IronMan_68 Start: 43620, Stop: 43360, Start Num: 60
Candidate Starts for IronMan_68:
(17, 43788), (23, 43707), (Start: 60 @43620 has 25 MA's), (78, 43524), (83, 43491), (91, 43458), (93, 43449), (95, 43437),

Gene: Isca_65 Start: 41657, Stop: 41289, Start Num: 22
Candidate Starts for Isca_65:
(Start: 22 @41657 has 121 MA's), (35, 41624), (Start: 53 @41600 has 11 MA's), (86, 41450), (91, 41432), (93, 41423), (95, 41411),

Gene: Isiphiwo_69 Start: 40857, Stop: 40609, Start Num: 60
Candidate Starts for Isiphiwo_69:
(10, 41097), (17, 41025), (23, 40944), (39, 40899), (Start: 60 @40857 has 25 MA's), (76, 40782), (83, 40740), (90, 40710), (93, 40698),

Gene: JC27_70 Start: 43426, Stop: 43133, Start Num: 38
Candidate Starts for JC27_70:
(Start: 22 @43453 has 121 MA's), (Start: 38 @43426 has 228 MA's), (Start: 62 @43381 has 1 MA's), (67, 43351), (76, 43303), (83, 43261),

Gene: JF2_65 Start: 40352, Stop: 39984, Start Num: 22
Candidate Starts for JF2_65:
(Start: 22 @40352 has 121 MA's), (35, 40319), (Start: 53 @40295 has 11 MA's), (86, 40145), (91, 40127), (93, 40118), (95, 40106),

Gene: JF4_65 Start: 40352, Stop: 39984, Start Num: 22
Candidate Starts for JF4_65:
(Start: 22 @40352 has 121 MA's), (35, 40319), (Start: 53 @40295 has 11 MA's), (86, 40145), (91, 40127), (93, 40118), (95, 40106),

Gene: JHC117_68 Start: 42422, Stop: 42132, Start Num: 30
Candidate Starts for JHC117_68:
(Start: 30 @42422 has 8 MA's), (35, 42407), (Start: 53 @42386 has 11 MA's), (66, 42353), (76, 42302), (78, 42293), (81, 42266), (83, 42260), (91, 42227),

Gene: JSwag_79 Start: 43080, Stop: 42802, Start Num: 50
Candidate Starts for JSwag_79:
(Start: 50 @43080 has 26 MA's), (73, 43002), (78, 42963), (83, 42930), (90, 42900), (91, 42897), (95, 42876), (97, 42843),

Gene: Jaan_69 Start: 43788, Stop: 43528, Start Num: 60
Candidate Starts for Jaan_69:
(17, 43956), (23, 43875), (Start: 60 @43788 has 25 MA's), (78, 43692), (83, 43659), (91, 43626), (93, 43617), (95, 43605),

Gene: JackSparrow_69 Start: 42909, Stop: 42616, Start Num: 38
Candidate Starts for JackSparrow_69:
(Start: 22 @42936 has 121 MA's), (Start: 38 @42909 has 228 MA's), (Start: 62 @42864 has 1 MA's), (67, 42834), (76, 42786), (83, 42744),

Gene: Jasper_67 Start: 41959, Stop: 41666, Start Num: 38
Candidate Starts for Jasper_67:
(Start: 22 @41986 has 121 MA's), (Start: 38 @41959 has 228 MA's), (Start: 62 @41914 has 1 MA's), (67, 41884), (76, 41836), (83, 41794),

Gene: Jeeves_74 Start: 42446, Stop: 42174, Start Num: 49
Candidate Starts for Jeeves_74:
(Start: 37 @42467 has 2 MA's), (Start: 49 @42446 has 7 MA's), (Start: 55 @42437 has 2 MA's), (76, 42347), (77, 42344), (82, 42308), (83, 42305), (93, 42263), (95, 42251), (100, 42200),

Gene: JenCasNa_73 Start: 42441, Stop: 42133, Start Num: 22
Candidate Starts for JenCasNa_73:
(Start: 22 @42441 has 121 MA's), (Start: 30 @42423 has 8 MA's), (35, 42408), (Start: 53 @42387 has 11 MA's), (66, 42354), (76, 42303), (78, 42294), (81, 42267), (83, 42261), (91, 42228),

Gene: JeppNRM_72 Start: 42259, Stop: 41951, Start Num: 22
Candidate Starts for JeppNRM_72:
(Start: 22 @42259 has 121 MA's), (Start: 30 @42241 has 8 MA's), (35, 42226), (Start: 53 @42205 has 11 MA's), (66, 42172), (76, 42121), (78, 42112), (81, 42085), (83, 42079), (85, 42070), (91, 42046),

Gene: Jerm2_67 Start: 43768, Stop: 43475, Start Num: 38
Candidate Starts for Jerm2_67:
(Start: 22 @43795 has 121 MA's), (Start: 38 @43768 has 228 MA's), (Start: 62 @43723 has 1 MA's), (67, 43693), (76, 43645), (83, 43603),

Gene: JewelBug_71 Start: 41591, Stop: 41343, Start Num: 60
Candidate Starts for JewelBug_71:
(10, 41831), (17, 41759), (23, 41678), (39, 41633), (Start: 60 @41591 has 25 MA's), (76, 41516), (83, 41474), (90, 41444), (93, 41432),

Gene: Jiawan_73 Start: 42725, Stop: 42447, Start Num: 45
Candidate Starts for Jiawan_73:
(Start: 45 @42725 has 31 MA's), (77, 42617), (86, 42563), (88, 42554), (95, 42524),

Gene: Jobu08_68 Start: 42273, Stop: 41965, Start Num: 22
Candidate Starts for Jobu08_68:
(Start: 22 @42273 has 121 MA's), (Start: 30 @42255 has 8 MA's), (35, 42240), (Start: 53 @42219 has 11 MA's), (66, 42186), (76, 42135), (78, 42126), (81, 42099), (83, 42093), (85, 42084), (91, 42060),

Gene: Jordennis_70 Start: 41072, Stop: 40824, Start Num: 60
Candidate Starts for Jordennis_70:
(10, 41312), (17, 41240), (23, 41159), (39, 41114), (Start: 60 @41072 has 25 MA's), (76, 40997), (83, 40955), (90, 40925), (93, 40913),

Gene: Jorgensen_71 Start: 43337, Stop: 43044, Start Num: 38
Candidate Starts for Jorgensen_71:

(Start: 22 @43364 has 121 MA's), (Start: 38 @43337 has 228 MA's), (Start: 62 @43292 has 1 MA's), (67, 43262), (71, 43250), (76, 43214), (83, 43172),

Gene: JuliaChild_67 Start: 43013, Stop: 42720, Start Num: 38
Candidate Starts for JuliaChild_67:
(Start: 22 @43040 has 121 MA's), (Start: 38 @43013 has 228 MA's), (Start: 62 @42968 has 1 MA's), (67, 42938), (76, 42890), (83, 42848),

Gene: KADY_69 Start: 42469, Stop: 42161, Start Num: 22
Candidate Starts for KADY_69:
(6, 42676), (Start: 22 @42469 has 121 MA's), (29, 42457), (Start: 30 @42451 has 8 MA's), (35, 42436), (Start: 53 @42415 has 11 MA's), (66, 42382), (76, 42331), (78, 42322), (81, 42295), (83, 42289), (91, 42256),

Gene: KBG_67 Start: 44545, Stop: 44252, Start Num: 38
Candidate Starts for KBG_67:
(Start: 38 @44545 has 228 MA's), (Start: 62 @44500 has 1 MA's), (67, 44470), (76, 44422), (83, 44380),

Gene: KSSJEB_65 Start: 41821, Stop: 41528, Start Num: 38
Candidate Starts for KSSJEB_65:
(Start: 38 @41821 has 228 MA's), (Start: 62 @41776 has 1 MA's), (67, 41746), (76, 41698), (83, 41656),

Gene: Kachowdy_68 Start: 42144, Stop: 41779, Start Num: 22
Candidate Starts for Kachowdy_68:
(Start: 22 @42144 has 121 MA's), (31, 42123), (35, 42111), (Start: 53 @42087 has 11 MA's), (86, 41937), (91, 41919), (93, 41910), (95, 41898),

Gene: Kalb97_72 Start: 42257, Stop: 41949, Start Num: 22
Candidate Starts for Kalb97_72:
(Start: 22 @42257 has 121 MA's), (Start: 30 @42239 has 8 MA's), (35, 42224), (Start: 53 @42203 has 11 MA's), (66, 42170), (76, 42119), (78, 42110), (81, 42083), (83, 42077), (85, 42068), (91, 42044),

Gene: Kalnoky_72 Start: 42255, Stop: 41947, Start Num: 22
Candidate Starts for Kalnoky_72:
(Start: 22 @42255 has 121 MA's), (Start: 30 @42237 has 8 MA's), (35, 42222), (Start: 53 @42201 has 11 MA's), (66, 42168), (76, 42117), (78, 42108), (81, 42081), (83, 42075), (91, 42042),

Gene: Kalpine_70 Start: 43417, Stop: 43178, Start Num: 64
Candidate Starts for Kalpine_70:
(Start: 47 @43456 has 6 MA's), (Start: 64 @43417 has 39 MA's), (78, 43342), (83, 43309), (91, 43276), (93, 43267), (95, 43255), (100, 43204),

Gene: Kanely_67 Start: 42580, Stop: 42287, Start Num: 38
Candidate Starts for Kanely_67:
(Start: 22 @42607 has 121 MA's), (Start: 38 @42580 has 228 MA's), (Start: 62 @42535 has 1 MA's), (67, 42505), (71, 42493), (76, 42457), (83, 42415),

Gene: KatherineG_80 Start: 43544, Stop: 43266, Start Num: 50
Candidate Starts for KatherineG_80:
(21, 43604), (Start: 50 @43544 has 26 MA's), (73, 43466), (78, 43427), (83, 43394), (90, 43364), (91, 43361), (95, 43340), (97, 43307),

Gene: Kenmech_70 Start: 44418, Stop: 44125, Start Num: 38
Candidate Starts for Kenmech_70:
(Start: 38 @44418 has 228 MA's), (Start: 62 @44373 has 1 MA's), (67, 44343), (76, 44295), (83, 44253),

Gene: Keziacharles14_69 Start: 43094, Stop: 42822, Start Num: 48
Candidate Starts for Keziacharles14_69:
(Start: 48 @43094 has 1 MA's), (77, 42989), (83, 42950), (86, 42935), (90, 42920), (95, 42896),

Gene: KikiBouba_64 Start: 42002, Stop: 41709, Start Num: 38
Candidate Starts for KikiBouba_64:
(Start: 22 @42029 has 121 MA's), (Start: 38 @42002 has 228 MA's), (67, 41927), (76, 41879), (83, 41837),

Gene: Killigrew_64 Start: 42625, Stop: 42332, Start Num: 38
Candidate Starts for Killigrew_64:
(Start: 22 @42652 has 121 MA's), (Start: 38 @42625 has 228 MA's), (Start: 62 @42580 has 1 MA's), (67, 42550), (76, 42502), (83, 42460),

Gene: Kimona_64 Start: 41048, Stop: 40713, Start Num: 22
Candidate Starts for Kimona_64:
(Start: 22 @41048 has 121 MA's), (Start: 45 @40988 has 31 MA's), (76, 40883), (86, 40826), (91, 40808),

Gene: Kinmap_72 Start: 41794, Stop: 41531, Start Num: 53
Candidate Starts for Kinmap_72:
(Start: 53 @41794 has 11 MA's), (74, 41728), (76, 41701), (77, 41698), (78, 41692), (79, 41677), (83, 41659), (86, 41644), (91, 41626), (95, 41605),

Gene: KittenMittens_61 Start: 40395, Stop: 40087, Start Num: 22
Candidate Starts for KittenMittens_61:
(Start: 22 @40395 has 121 MA's), (46, 40353), (61, 40329), (76, 40257), (85, 40206), (91, 40182), (101, 40107),

Gene: Klodlith_68 Start: 41770, Stop: 41483, Start Num: 44
Candidate Starts for Klodlith_68:
(Start: 44 @41770 has 1 MA's), (77, 41665), (83, 41626), (95, 41572),

Gene: Kristoff_63 Start: 41709, Stop: 41401, Start Num: 22
Candidate Starts for Kristoff_63:
(Start: 22 @41709 has 121 MA's), (33, 41691), (46, 41667), (61, 41643), (85, 41520), (91, 41496), (101, 41421),

Gene: Kugel_70 Start: 44438, Stop: 44145, Start Num: 38
Candidate Starts for Kugel_70:
(Start: 22 @44465 has 121 MA's), (Start: 38 @44438 has 228 MA's), (Start: 62 @44393 has 1 MA's), (67, 44363), (76, 44315), (83, 44273),

Gene: KyMonks1A_70 Start: 42786, Stop: 42493, Start Num: 38
Candidate Starts for KyMonks1A_70:
(Start: 22 @42813 has 121 MA's), (Start: 38 @42786 has 228 MA's), (Start: 62 @42741 has 1 MA's), (76, 42663), (83, 42621),

Gene: Kykar_67 Start: 43161, Stop: 42868, Start Num: 38
Candidate Starts for Kykar_67:
(4, 43419), (7, 43383), (Start: 22 @43188 has 121 MA's), (Start: 38 @43161 has 228 MA's), (Start: 62 @43116 has 1 MA's), (67, 43086), (76, 43038), (83, 42996),

Gene: LBerry_73 Start: 42445, Stop: 42137, Start Num: 22
Candidate Starts for LBerry_73:
(Start: 22 @42445 has 121 MA's), (Start: 30 @42427 has 8 MA's), (35, 42412), (Start: 53 @42391 has 11 MA's), (66, 42358), (76, 42307), (78, 42298), (81, 42271), (83, 42265), (91, 42232),

Gene: LadyBird_74 Start: 43662, Stop: 43423, Start Num: 64
Candidate Starts for LadyBird_74:
(Start: 47 @43701 has 6 MA's), (Start: 64 @43662 has 39 MA's), (78, 43587), (83, 43554), (91, 43521), (93, 43512), (95, 43500), (102, 43443),

Gene: Lambert1_67 Start: 42160, Stop: 41789, Start Num: 22
Candidate Starts for Lambert1_67:
(Start: 22 @42160 has 121 MA's), (35, 42127), (Start: 53 @42103 has 11 MA's), (76, 42007), (86, 41950), (91, 41932), (95, 41911),

Gene: Lamina13_69 Start: 43778, Stop: 43485, Start Num: 38
Candidate Starts for Lamina13_69:
(Start: 38 @43778 has 228 MA's), (Start: 62 @43733 has 1 MA's), (67, 43703), (76, 43655), (83, 43613),

Gene: Landor_69 Start: 43695, Stop: 43435, Start Num: 60
Candidate Starts for Landor_69:
(Start: 60 @43695 has 25 MA's), (78, 43599), (83, 43566), (91, 43533), (93, 43524), (95, 43512),

Gene: Larenn_68 Start: 42943, Stop: 42704, Start Num: 64
Candidate Starts for Larenn_68:
(Start: 64 @42943 has 39 MA's), (78, 42868), (83, 42835), (86, 42820), (91, 42802), (93, 42793), (95, 42781), (102, 42724),

Gene: LastResort_78 Start: 43475, Stop: 43197, Start Num: 50
Candidate Starts for LastResort_78:
(21, 43535), (Start: 50 @43475 has 26 MA's), (73, 43397), (78, 43358), (83, 43325), (90, 43295), (91, 43292), (95, 43271), (97, 43238),

Gene: Leogania_70 Start: 43630, Stop: 43391, Start Num: 64
Candidate Starts for Leogania_70:
(Start: 47 @43669 has 6 MA's), (Start: 64 @43630 has 39 MA's), (78, 43555), (83, 43522), (91, 43489), (93, 43480), (95, 43468),

Gene: Lesedi_62 Start: 40853, Stop: 40560, Start Num: 38
Candidate Starts for Lesedi_62:
(Start: 38 @40853 has 228 MA's), (Start: 62 @40808 has 1 MA's), (67, 40778), (76, 40730), (83, 40688),

Gene: Levia_63 Start: 41770, Stop: 41477, Start Num: 38
Candidate Starts for Levia_63:

(Start: 38 @41770 has 228 MA's), (Start: 62 @41725 has 1 MA's), (67, 41695), (76, 41647), (83, 41605),

Gene: Licorice_66 Start: 43887, Stop: 43594, Start Num: 38
Candidate Starts for Licorice_66:
(Start: 22 @43914 has 121 MA's), (Start: 38 @43887 has 228 MA's), (Start: 62 @43842 has 1 MA's), (67, 43812), (76, 43764), (83, 43722),

Gene: LilBib_65 Start: 43871, Stop: 43578, Start Num: 38
Candidate Starts for LilBib_65:
(Start: 38 @43871 has 228 MA's), (Start: 62 @43826 has 1 MA's), (67, 43796), (76, 43748), (83, 43706),

Gene: Lilith_70 Start: 42434, Stop: 42126, Start Num: 22
Candidate Starts for Lilith_70:
(Start: 22 @42434 has 121 MA's), (Start: 30 @42416 has 8 MA's), (35, 42401), (Start: 53 @42380 has 11 MA's), (66, 42347), (76, 42296), (78, 42287), (81, 42260), (83, 42254), (91, 42221),

Gene: Lilleskat_73 Start: 42650, Stop: 42372, Start Num: 45
Candidate Starts for Lilleskat_73:
(Start: 45 @42650 has 31 MA's), (77, 42542), (86, 42488), (88, 42479), (95, 42449),

Gene: LionsBait_70 Start: 44279, Stop: 44037, Start Num: 64
Candidate Starts for LionsBait_70:
(Start: 47 @44318 has 6 MA's), (Start: 64 @44279 has 39 MA's), (78, 44204), (83, 44171), (91, 44138), (93, 44129), (95, 44117),

Gene: Lockley_65 Start: 42740, Stop: 42447, Start Num: 38
Candidate Starts for Lockley_65:
(Start: 22 @42767 has 121 MA's), (Start: 38 @42740 has 228 MA's), (Start: 62 @42695 has 1 MA's), (67, 42665), (76, 42617), (83, 42575),

Gene: LogiBear_71 Start: 41645, Stop: 41367, Start Num: 50
Candidate Starts for LogiBear_71:
(18, 41777), (Start: 50 @41645 has 26 MA's), (76, 41549), (78, 41540), (83, 41507), (87, 41480), (89, 41468), (91, 41462), (95, 41441),

Gene: Lokk_65 Start: 41753, Stop: 41511, Start Num: 64
Candidate Starts for Lokk_65:
(Start: 64 @41753 has 39 MA's), (78, 41678), (83, 41645), (91, 41612), (93, 41603),

Gene: LoneWolf_73 Start: 42713, Stop: 42423, Start Num: 36
Candidate Starts for LoneWolf_73:
(Start: 36 @42713 has 6 MA's), (77, 42602), (86, 42548), (95, 42509),

Gene: Looper_79 Start: 43387, Stop: 43109, Start Num: 50
Candidate Starts for Looper_79:
(21, 43447), (Start: 50 @43387 has 26 MA's), (73, 43309), (78, 43270), (83, 43237), (90, 43207), (91, 43204), (95, 43183), (97, 43150),

Gene: Lopton_66 Start: 44440, Stop: 44147, Start Num: 38
Candidate Starts for Lopton_66:

(Start: 22 @44467 has 121 MA's), (Start: 38 @44440 has 228 MA's), (Start: 62 @44395 has 1 MA's), (67, 44365), (76, 44317), (83, 44275),

Gene: Loser_72 Start: 43514, Stop: 43275, Start Num: 64
Candidate Starts for Loser_72:
(Start: 47 @43553 has 6 MA's), (Start: 64 @43514 has 39 MA's), (76, 43448), (78, 43439), (83, 43406), (91, 43373), (93, 43364), (95, 43352),

Gene: Louie6_71 Start: 42471, Stop: 42163, Start Num: 22
Candidate Starts for Louie6_71:
(6, 42678), (Start: 22 @42471 has 121 MA's), (29, 42459), (Start: 30 @42453 has 8 MA's), (35, 42438), (Start: 53 @42417 has 11 MA's), (66, 42384), (76, 42333), (78, 42324), (81, 42297), (83, 42291), (91, 42258),

Gene: Lowa_72 Start: 42433, Stop: 42125, Start Num: 22
Candidate Starts for Lowa_72:
(Start: 22 @42433 has 121 MA's), (Start: 30 @42415 has 8 MA's), (35, 42400), (Start: 53 @42379 has 11 MA's), (66, 42346), (76, 42295), (78, 42286), (81, 42259), (83, 42253), (91, 42220),

Gene: Luchador_73 Start: 43928, Stop: 43659, Start Num: 49
Candidate Starts for Luchador_73:
(Start: 37 @43949 has 2 MA's), (Start: 49 @43928 has 7 MA's), (Start: 52 @43925 has 1 MA's), (77, 43829), (82, 43793), (83, 43790), (93, 43748), (95, 43736), (100, 43685),

Gene: Lucyedi_75 Start: 43494, Stop: 43234, Start Num: 55
Candidate Starts for Lucyedi_75:
(16, 43650), (27, 43560), (32, 43542), (Start: 34 @43536 has 1 MA's), (Start: 55 @43494 has 2 MA's), (82, 43356), (95, 43299),

Gene: LugYA_75 Start: 42442, Stop: 42134, Start Num: 22
Candidate Starts for LugYA_75:
(Start: 22 @42442 has 121 MA's), (Start: 30 @42424 has 8 MA's), (35, 42409), (Start: 53 @42388 has 11 MA's), (66, 42355), (76, 42304), (78, 42295), (81, 42268), (83, 42262), (91, 42229),

Gene: LunarLander_65 Start: 43066, Stop: 42773, Start Num: 38
Candidate Starts for LunarLander_65:
(Start: 22 @43093 has 121 MA's), (Start: 38 @43066 has 228 MA's), (Start: 62 @43021 has 1 MA's), (67, 42991), (76, 42943), (83, 42901),

Gene: MA5_67 Start: 41561, Stop: 41193, Start Num: 22
Candidate Starts for MA5_67:
(Start: 22 @41561 has 121 MA's), (35, 41528), (Start: 53 @41504 has 11 MA's), (86, 41354), (91, 41336), (93, 41327), (95, 41315),

Gene: MK4_67 Start: 41636, Stop: 41268, Start Num: 22
Candidate Starts for MK4_67:
(Start: 22 @41636 has 121 MA's), (35, 41603), (Start: 53 @41579 has 11 MA's), (86, 41429), (91, 41411), (93, 41402), (95, 41390),

Gene: MPlant7149_66 Start: 41586, Stop: 41293, Start Num: 38
Candidate Starts for MPlant7149_66:
(5, 41814), (Start: 22 @41613 has 121 MA's), (Start: 38 @41586 has 228 MA's), (Start: 62 @41541 has 1 MA's), (67, 41511), (76, 41463), (83, 41421),

Gene: MadMarie_70 Start: 42425, Stop: 42135, Start Num: 30
Candidate Starts for MadMarie_70:
(Start: 30 @42425 has 8 MA's), (35, 42410), (Start: 53 @42389 has 11 MA's), (66, 42356), (76, 42305), (78, 42296), (81, 42269), (83, 42263), (91, 42230),

Gene: Magnar_65 Start: 42659, Stop: 42366, Start Num: 38
Candidate Starts for Magnar_65:
(Start: 22 @42686 has 121 MA's), (Start: 38 @42659 has 228 MA's), (Start: 62 @42614 has 1 MA's), (67, 42584), (76, 42536), (83, 42494),

Gene: Magnito_67 Start: 42855, Stop: 42562, Start Num: 38
Candidate Starts for Magnito_67:
(Start: 22 @42882 has 121 MA's), (Start: 38 @42855 has 228 MA's), (Start: 62 @42810 has 1 MA's), (67, 42780), (76, 42732), (83, 42690),

Gene: Mainiac_71 Start: 42417, Stop: 42127, Start Num: 30
Candidate Starts for Mainiac_71:
(Start: 30 @42417 has 8 MA's), (35, 42402), (Start: 53 @42381 has 11 MA's), (66, 42348), (76, 42297), (78, 42288), (81, 42261), (83, 42255), (91, 42222),

Gene: Makemake_72 Start: 44876, Stop: 44583, Start Num: 38
Candidate Starts for Makemake_72:
(Start: 38 @44876 has 228 MA's), (Start: 62 @44831 has 1 MA's), (67, 44801), (76, 44753), (83, 44711),

Gene: Malec_69 Start: 43510, Stop: 43271, Start Num: 64
Candidate Starts for Malec_69:
(Start: 64 @43510 has 39 MA's), (78, 43435), (83, 43402), (86, 43387), (91, 43369), (93, 43360), (95, 43348), (102, 43291),

Gene: Malinsilva_74 Start: 42433, Stop: 42125, Start Num: 22
Candidate Starts for Malinsilva_74:
(Start: 22 @42433 has 121 MA's), (Start: 30 @42415 has 8 MA's), (35, 42400), (Start: 53 @42379 has 11 MA's), (66, 42346), (76, 42295), (78, 42286), (81, 42259), (83, 42253), (91, 42220),

Gene: Maminiaina_73 Start: 42834, Stop: 42550, Start Num: 36
Candidate Starts for Maminiaina_73:
(Start: 36 @42834 has 6 MA's), (77, 42723), (83, 42684), (95, 42630),

Gene: Manatee_66 Start: 42327, Stop: 42034, Start Num: 38
Candidate Starts for Manatee_66:
(Start: 38 @42327 has 228 MA's), (Start: 62 @42282 has 1 MA's), (67, 42252), (76, 42204), (83, 42162),

Gene: Manu_71 Start: 42258, Stop: 41950, Start Num: 22
Candidate Starts for Manu_71:
(Start: 22 @42258 has 121 MA's), (Start: 30 @42240 has 8 MA's), (35, 42225), (Start: 53 @42204 has 11 MA's), (66, 42171), (76, 42120), (78, 42111), (81, 42084), (83, 42078), (85, 42069), (91, 42045),

Gene: MarQuardt_72 Start: 42443, Stop: 42135, Start Num: 22
Candidate Starts for MarQuardt_72:

(Start: 22 @42443 has 121 MA's), (Start: 30 @42425 has 8 MA's), (35, 42410), (Start: 53 @42389 has 11 MA's), (66, 42356), (76, 42305), (78, 42296), (81, 42269), (83, 42263), (91, 42230),

Gene: Marcell_62 Start: 41366, Stop: 41073, Start Num: 38
Candidate Starts for Marcell_62:
(Start: 22 @41393 has 121 MA's), (Start: 38 @41366 has 228 MA's), (Start: 62 @41321 has 1 MA's), (67, 41291), (76, 41243), (83, 41201),

Gene: Marchesa_65 Start: 42037, Stop: 41729, Start Num: 53
Candidate Starts for Marchesa_65:
(Start: 22 @42094 has 121 MA's), (31, 42073), (35, 42061), (Start: 53 @42037 has 11 MA's), (86, 41887), (91, 41869), (93, 41860), (95, 41848),

Gene: Marchy_59 Start: 39104, Stop: 38811, Start Num: 38
Candidate Starts for Marchy_59:
(Start: 38 @39104 has 228 MA's), (Start: 62 @39059 has 1 MA's), (67, 39029), (76, 38981), (83, 38939),

Gene: Marco3_72 Start: 45164, Stop: 44871, Start Num: 38
Candidate Starts for Marco3_72:
(Start: 38 @45164 has 228 MA's), (Start: 62 @45119 has 1 MA's), (67, 45089), (76, 45041), (83, 44999),

Gene: Marge_62 Start: 41896, Stop: 41603, Start Num: 38
Candidate Starts for Marge_62:
(Start: 22 @41923 has 121 MA's), (Start: 38 @41896 has 228 MA's), (Start: 62 @41851 has 1 MA's), (67, 41821), (76, 41773), (83, 41731),

Gene: Margo_67 Start: 42186, Stop: 41815, Start Num: 22
Candidate Starts for Margo_67:
(Start: 22 @42186 has 121 MA's), (35, 42153), (Start: 53 @42129 has 11 MA's), (76, 42033), (86, 41976), (91, 41958), (95, 41937),

Gene: Marie_70 Start: 42441, Stop: 42133, Start Num: 22
Candidate Starts for Marie_70:
(Start: 22 @42441 has 121 MA's), (Start: 30 @42423 has 8 MA's), (35, 42408), (Start: 53 @42387 has 11 MA's), (66, 42354), (76, 42303), (78, 42294), (81, 42267), (83, 42261), (91, 42228),

Gene: Marius_72 Start: 42255, Stop: 41947, Start Num: 22
Candidate Starts for Marius_72:
(Start: 22 @42255 has 121 MA's), (Start: 30 @42237 has 8 MA's), (35, 42222), (Start: 53 @42201 has 11 MA's), (66, 42168), (76, 42117), (78, 42108), (81, 42081), (83, 42075), (91, 42042),

Gene: Maroc7_65 Start: 43339, Stop: 43046, Start Num: 38
Candidate Starts for Maroc7_65:
(Start: 22 @43366 has 121 MA's), (Start: 38 @43339 has 228 MA's), (Start: 62 @43294 has 1 MA's), (67, 43264), (71, 43252), (76, 43216), (83, 43174),

Gene: Marsha_66 Start: 43889, Stop: 43596, Start Num: 38
Candidate Starts for Marsha_66:
(Start: 38 @43889 has 228 MA's), (Start: 62 @43844 has 1 MA's), (67, 43814), (76, 43766), (83, 43724),

Gene: MaryBeth_63 Start: 42720, Stop: 42427, Start Num: 38
Candidate Starts for MaryBeth_63:
(Start: 22 @42747 has 121 MA's), (Start: 38 @42720 has 228 MA's), (Start: 62 @42675 has 1 MA's), (67, 42645), (76, 42597), (83, 42555),

Gene: McFly_71 Start: 41284, Stop: 41036, Start Num: 60
Candidate Starts for McFly_71:
(10, 41524), (17, 41452), (23, 41371), (39, 41326), (Start: 60 @41284 has 25 MA's), (76, 41209), (83, 41167), (90, 41137), (93, 41125),

Gene: McGuire_66 Start: 41690, Stop: 41397, Start Num: 38
Candidate Starts for McGuire_66:
(Start: 22 @41717 has 121 MA's), (Start: 38 @41690 has 228 MA's), (Start: 62 @41645 has 1 MA's), (67, 41615), (76, 41567), (83, 41525),

Gene: McSinger_63 Start: 41639, Stop: 41346, Start Num: 38
Candidate Starts for McSinger_63:
(Start: 22 @41666 has 121 MA's), (Start: 38 @41639 has 228 MA's), (Start: 62 @41594 has 1 MA's), (67, 41564), (76, 41516), (83, 41474),

Gene: MegTheThird_67 Start: 41584, Stop: 41285, Start Num: 37
Candidate Starts for MegTheThird_67:
(1, 42010), (Start: 37 @41584 has 2 MA's), (77, 41467), (83, 41428), (95, 41374),

Gene: MetalQZJ_62 Start: 42720, Stop: 42427, Start Num: 38
Candidate Starts for MetalQZJ_62:
(Start: 22 @42747 has 121 MA's), (Start: 38 @42720 has 228 MA's), (Start: 62 @42675 has 1 MA's), (67, 42645), (76, 42597), (83, 42555),

Gene: Methuselah_65 Start: 42465, Stop: 42157, Start Num: 22
Candidate Starts for Methuselah_65:
(Start: 22 @42465 has 121 MA's), (Start: 30 @42447 has 8 MA's), (35, 42432), (Start: 53 @42411 has 11 MA's), (66, 42378), (76, 42327), (78, 42318), (81, 42291), (83, 42285), (91, 42252),

Gene: Michley_70 Start: 43281, Stop: 42988, Start Num: 38
Candidate Starts for Michley_70:
(Start: 38 @43281 has 228 MA's), (Start: 62 @43236 has 1 MA's), (67, 43206), (71, 43194), (76, 43158), (83, 43116),

Gene: Microwolf_68 Start: 42457, Stop: 42149, Start Num: 22
Candidate Starts for Microwolf_68:
(Start: 22 @42457 has 121 MA's), (Start: 30 @42439 has 8 MA's), (35, 42424), (Start: 53 @42403 has 11 MA's), (66, 42370), (76, 42319), (78, 42310), (81, 42283), (83, 42277), (91, 42244),

Gene: MiculUcigas_71 Start: 42957, Stop: 42718, Start Num: 64
Candidate Starts for MiculUcigas_71:
(Start: 47 @42996 has 6 MA's), (Start: 64 @42957 has 39 MA's), (70, 42930), (71, 42927), (78, 42882), (83, 42849), (91, 42816), (93, 42807), (95, 42795), (102, 42738),

Gene: Midas2_62 Start: 41634, Stop: 41383, Start Num: 54
Candidate Starts for Midas2_62:
(Start: 54 @41634 has 9 MA's), (Start: 59 @41622 has 2 MA's), (78, 41541), (79, 41526), (93, 41463), (97, 41418), (101, 41397), (103, 41391),

Gene: Miko_65 Start: 42531, Stop: 42289, Start Num: 64
Candidate Starts for Miko_65:
(Start: 64 @42531 has 39 MA's), (70, 42504), (78, 42456), (83, 42423), (91, 42390), (93, 42381),

Gene: MilleFeuille_68 Start: 42452, Stop: 42159, Start Num: 38
Candidate Starts for MilleFeuille_68:
(Start: 22 @42479 has 121 MA's), (Start: 38 @42452 has 228 MA's), (Start: 62 @42407 has 1 MA's), (67, 42377), (76, 42329), (83, 42287),

Gene: MinecraftSteve_80 Start: 43368, Stop: 43090, Start Num: 50
Candidate Starts for MinecraftSteve_80:
(21, 43428), (Start: 50 @43368 has 26 MA's), (73, 43290), (78, 43251), (83, 43218), (90, 43188), (91, 43185), (95, 43164), (97, 43131),

Gene: Minispark_70 Start: 42324, Stop: 42022, Start Num: 36
Candidate Starts for Minispark_70:
(8, 42534), (Start: 36 @42324 has 6 MA's), (83, 42162), (95, 42108),

Gene: Misomonster_73 Start: 42468, Stop: 42160, Start Num: 22
Candidate Starts for Misomonster_73:
(6, 42675), (Start: 22 @42468 has 121 MA's), (29, 42456), (Start: 30 @42450 has 8 MA's), (35, 42435), (Start: 53 @42414 has 11 MA's), (66, 42381), (76, 42330), (78, 42321), (81, 42294), (83, 42288), (91, 42255),

Gene: Mkhuseli_61 Start: 40758, Stop: 40465, Start Num: 38
Candidate Starts for Mkhuseli_61:
(Start: 22 @40785 has 121 MA's), (Start: 38 @40758 has 228 MA's), (Start: 62 @40713 has 1 MA's), (67, 40683), (76, 40635), (83, 40593),

Gene: Molly_67 Start: 42963, Stop: 42670, Start Num: 38
Candidate Starts for Molly_67:
(Start: 22 @42990 has 121 MA's), (Start: 38 @42963 has 228 MA's), (Start: 62 @42918 has 1 MA's), (67, 42888), (76, 42840), (83, 42798),

Gene: Monet_68 Start: 44284, Stop: 43991, Start Num: 38
Candidate Starts for Monet_68:
(Start: 22 @44311 has 121 MA's), (Start: 38 @44284 has 228 MA's), (Start: 62 @44239 has 1 MA's), (67, 44209), (76, 44161), (83, 44119),

Gene: MoneyMay_71 Start: 42441, Stop: 42133, Start Num: 22
Candidate Starts for MoneyMay_71:
(Start: 22 @42441 has 121 MA's), (Start: 30 @42423 has 8 MA's), (35, 42408), (Start: 53 @42387 has 11 MA's), (66, 42354), (76, 42303), (78, 42294), (81, 42267), (83, 42261), (91, 42228),

Gene: Moose_67 Start: 42412, Stop: 42119, Start Num: 38
Candidate Starts for Moose_67:
(Start: 22 @42439 has 121 MA's), (Start: 38 @42412 has 228 MA's), (Start: 62 @42367 has 1 MA's), (67, 42337), (76, 42289), (83, 42247),

Gene: MrGordo_69 Start: 43202, Stop: 42909, Start Num: 38
Candidate Starts for MrGordo_69:
(Start: 38 @43202 has 228 MA's), (Start: 62 @43157 has 1 MA's), (67, 43127), (76, 43079),

Gene: Mryolo_64 Start: 42236, Stop: 41943, Start Num: 38
Candidate Starts for Mryolo_64:
(Start: 22 @42263 has 121 MA's), (Start: 38 @42236 has 228 MA's), (Start: 62 @42191 has 1 MA's), (67, 42161), (76, 42113), (83, 42071),

Gene: MuchMore_75 Start: 42433, Stop: 42125, Start Num: 22
Candidate Starts for MuchMore_75:
(Start: 22 @42433 has 121 MA's), (Start: 30 @42415 has 8 MA's), (35, 42400), (Start: 53 @42379 has 11 MA's), (66, 42346), (76, 42295), (78, 42286), (81, 42259), (83, 42253), (91, 42220),

Gene: Mule_63 Start: 41944, Stop: 41651, Start Num: 38
Candidate Starts for Mule_63:
(Start: 38 @41944 has 228 MA's), (Start: 62 @41899 has 1 MA's), (67, 41869), (76, 41821), (83, 41779),

Gene: Museum_68 Start: 44182, Stop: 43889, Start Num: 38
Candidate Starts for Museum_68:
(Start: 22 @44209 has 121 MA's), (Start: 38 @44182 has 228 MA's), (Start: 62 @44137 has 1 MA's), (67, 44107), (76, 44059), (83, 44017),

Gene: MyraDee_69 Start: 40422, Stop: 40147, Start Num: 45
Candidate Starts for MyraDee_69:
(Start: 45 @40422 has 31 MA's), (76, 40317), (77, 40314), (78, 40308), (90, 40245), (91, 40242), (93, 40233),

Gene: Myxus_73 Start: 42693, Stop: 42415, Start Num: 45
Candidate Starts for Myxus_73:
(Start: 45 @42693 has 31 MA's), (77, 42585), (86, 42531), (88, 42522), (95, 42492),

Gene: NEHalo_63 Start: 42836, Stop: 42543, Start Num: 38
Candidate Starts for NEHalo_63:
(Start: 22 @42863 has 121 MA's), (Start: 38 @42836 has 228 MA's), (Start: 62 @42791 has 1 MA's), (67, 42761), (76, 42713), (83, 42671),

Gene: NaSiaTalie_71 Start: 43051, Stop: 42812, Start Num: 64
Candidate Starts for NaSiaTalie_71:
(Start: 47 @43090 has 6 MA's), (Start: 64 @43051 has 39 MA's), (70, 43024), (71, 43021), (78, 42976), (83, 42943), (91, 42910), (93, 42901), (95, 42889), (102, 42832),

Gene: Naira_71 Start: 44806, Stop: 44513, Start Num: 38
Candidate Starts for Naira_71:
(Start: 22 @44851 has 121 MA's), (Start: 30 @44833 has 8 MA's), (Start: 38 @44806 has 228 MA's), (Start: 62 @44761 has 1 MA's), (67, 44731), (76, 44683), (83, 44641),

Gene: NearlyHeadless_81 Start: 43932, Stop: 43648, Start Num: 54
Candidate Starts for NearlyHeadless_81:
(Start: 54 @43932 has 9 MA's), (68, 43890), (77, 43848), (78, 43842), (91, 43770), (93, 43761), (94, 43752),

Gene: Nebulosus_77 Start: 43032, Stop: 42754, Start Num: 50
Candidate Starts for Nebulosus_77:

(21, 43092), (Start: 50 @43032 has 26 MA's), (73, 42954), (78, 42915), (83, 42882), (90, 42852), (91, 42849), (95, 42828), (97, 42795),

Gene: Nedarya_76 Start: 43628, Stop: 43350, Start Num: 50
Candidate Starts for Nedarya_76:
(Start: 50 @43628 has 26 MA's), (73, 43550), (78, 43511), (83, 43478), (95, 43424), (97, 43391),

Gene: Neeharika16_70 Start: 40751, Stop: 40503, Start Num: 60
Candidate Starts for Neeharika16_70:
(10, 40991), (17, 40919), (23, 40838), (39, 40793), (Start: 60 @40751 has 25 MA's), (76, 40676), (83, 40634), (90, 40604), (93, 40592),

Gene: Nerujay_71 Start: 44385, Stop: 44092, Start Num: 38
Candidate Starts for Nerujay_71:
(Start: 22 @44412 has 121 MA's), (Start: 38 @44385 has 228 MA's), (Start: 62 @44340 has 1 MA's), (67, 44310), (76, 44262), (83, 44220),

Gene: Newrala_71 Start: 41291, Stop: 41043, Start Num: 60
Candidate Starts for Newrala_71:
(10, 41531), (17, 41459), (23, 41378), (39, 41333), (Start: 60 @41291 has 25 MA's), (76, 41216), (83, 41174), (90, 41144), (93, 41132),

Gene: Nhonho_65 Start: 43327, Stop: 43034, Start Num: 38
Candidate Starts for Nhonho_65:
(Start: 22 @43354 has 121 MA's), (Start: 38 @43327 has 228 MA's), (Start: 62 @43282 has 1 MA's), (67, 43252), (71, 43240), (76, 43204), (83, 43162),

Gene: NicoleTera_68 Start: 43116, Stop: 42838, Start Num: 47
Candidate Starts for NicoleTera_68:
(25, 43173), (Start: 47 @43116 has 6 MA's), (Start: 64 @43077 has 39 MA's), (78, 43002), (83, 42969), (91, 42936), (93, 42927), (95, 42915), (103, 42855),

Gene: Niza_68 Start: 44472, Stop: 44179, Start Num: 38
Candidate Starts for Niza_68:
(Start: 38 @44472 has 228 MA's), (Start: 62 @44427 has 1 MA's), (67, 44397), (71, 44385), (76, 44349), (83, 44307),

Gene: Noella_67 Start: 42161, Stop: 41790, Start Num: 22
Candidate Starts for Noella_67:
(Start: 22 @42161 has 121 MA's), (35, 42128), (Start: 53 @42104 has 11 MA's), (76, 42008), (86, 41951), (91, 41933), (95, 41912),

Gene: Norbert_63 Start: 42160, Stop: 41789, Start Num: 22
Candidate Starts for Norbert_63:
(Start: 22 @42160 has 121 MA's), (35, 42127), (Start: 53 @42103 has 11 MA's), (76, 42007), (86, 41950), (91, 41932), (95, 41911),

Gene: Norz_65 Start: 44712, Stop: 44419, Start Num: 38
Candidate Starts for Norz_65:
(Start: 22 @44739 has 121 MA's), (Start: 38 @44712 has 228 MA's), (Start: 62 @44667 has 1 MA's), (67, 44637), (76, 44589), (83, 44547),

Gene: NothingSpecial_67 Start: 43318, Stop: 43031, Start Num: 47

Candidate Starts for NothingSpecial_67:
(32, 43354), (Start: 47 @43318 has 6 MA's), (Start: 64 @43279 has 39 MA's), (76, 43204), (78, 43195), (83, 43162), (91, 43129), (93, 43120), (95, 43108),

Gene: Noxious_64 Start: 42193, Stop: 41900, Start Num: 38
Candidate Starts for Noxious_64:
(Start: 22 @42220 has 121 MA's), (Start: 38 @42193 has 228 MA's), (67, 42118), (76, 42070), (83, 42028),

Gene: OKCentral2016_63 Start: 40871, Stop: 40563, Start Num: 22
Candidate Starts for OKCentral2016_63:
(Start: 22 @40871 has 121 MA's), (46, 40829), (61, 40805), (85, 40682), (91, 40658), (101, 40583),

Gene: Odin_71 Start: 42102, Stop: 41860, Start Num: 63
Candidate Starts for Odin_71:
(Start: 63 @42102 has 3 MA's), (76, 42027), (79, 42003), (82, 41988), (83, 41985), (84, 41979), (85, 41976), (91, 41952), (95, 41931),

Gene: Ohno789_67 Start: 43300, Stop: 43007, Start Num: 38
Candidate Starts for Ohno789_67:
(Start: 22 @43327 has 121 MA's), (Start: 38 @43300 has 228 MA's), (Start: 62 @43255 has 1 MA's), (67, 43225), (71, 43213), (76, 43177), (83, 43135),

Gene: OlanP_70 Start: 42431, Stop: 42123, Start Num: 22
Candidate Starts for OlanP_70:
(Start: 22 @42431 has 121 MA's), (Start: 30 @42413 has 8 MA's), (35, 42398), (Start: 53 @42377 has 11 MA's), (66, 42344), (76, 42293), (78, 42284), (81, 42257), (83, 42251), (85, 42242), (91, 42218),

Gene: Ollie_72 Start: 42312, Stop: 42004, Start Num: 22
Candidate Starts for Ollie_72:
(Start: 22 @42312 has 121 MA's), (Start: 30 @42294 has 8 MA's), (35, 42279), (Start: 53 @42258 has 11 MA's), (66, 42225), (76, 42174), (78, 42165), (81, 42138), (83, 42132), (91, 42099),

Gene: Onglai_72 Start: 40897, Stop: 40619, Start Num: 45
Candidate Starts for Onglai_72:
(Start: 45 @40897 has 31 MA's), (77, 40789), (86, 40735), (88, 40726), (95, 40696),

Gene: Oofda_80 Start: 43721, Stop: 43443, Start Num: 50
Candidate Starts for Oofda_80:
(20, 43796), (Start: 50 @43721 has 26 MA's), (73, 43643), (78, 43604), (83, 43571), (90, 43541), (91, 43538), (95, 43517), (97, 43484),

Gene: Oogway_64 Start: 43355, Stop: 43062, Start Num: 38
Candidate Starts for Oogway_64:
(Start: 22 @43382 has 121 MA's), (Start: 38 @43355 has 228 MA's), (Start: 62 @43310 has 1 MA's), (67, 43280), (76, 43232), (83, 43190),

Gene: P28Green_72 Start: 42444, Stop: 42136, Start Num: 22
Candidate Starts for P28Green_72:
(Start: 22 @42444 has 121 MA's), (Start: 30 @42426 has 8 MA's), (35, 42411), (Start: 53 @42390 has 11 MA's), (66, 42357), (76, 42306), (78, 42297), (81, 42270), (83, 42264), (91, 42231),

Gene: PGHhamlin_74 Start: 42433, Stop: 42125, Start Num: 22

Candidate Starts for PGHhamlin_74:
(Start: 22 @42433 has 121 MA's), (Start: 30 @42415 has 8 MA's), (35, 42400), (Start: 53 @42379 has 11 MA's), (66, 42346), (76, 42295), (78, 42286), (81, 42259), (83, 42253), (91, 42220),

Gene: PSullivan_64 Start: 41080, Stop: 40787, Start Num: 38
Candidate Starts for PSullivan_64:
(Start: 22 @41107 has 121 MA's), (Start: 38 @41080 has 228 MA's), (Start: 62 @41035 has 1 MA's), (67, 41005), (76, 40957), (83, 40915),

Gene: PacerPaul_66 Start: 42858, Stop: 42565, Start Num: 38
Candidate Starts for PacerPaul_66:
(Start: 38 @42858 has 228 MA's), (Start: 62 @42813 has 1 MA's), (67, 42783), (76, 42735), (83, 42693),

Gene: PackMan_72 Start: 42568, Stop: 42290, Start Num: 45
Candidate Starts for PackMan_72:
(Start: 45 @42568 has 31 MA's), (77, 42460), (86, 42406), (88, 42397), (95, 42367),

Gene: PainterBoy_74 Start: 43245, Stop: 42943, Start Num: 34
Candidate Starts for PainterBoy_74:
(16, 43359), (27, 43269), (32, 43251), (Start: 34 @43245 has 1 MA's), (Start: 55 @43203 has 2 MA's), (82, 43065), (95, 43008),

Gene: Panamaxus_65 Start: 42160, Stop: 41789, Start Num: 22
Candidate Starts for Panamaxus_65:
(Start: 22 @42160 has 121 MA's), (35, 42127), (Start: 53 @42103 has 11 MA's), (76, 42007), (86, 41950), (91, 41932), (95, 41911),

Gene: Papez_68 Start: 44027, Stop: 43731, Start Num: 38
Candidate Starts for Papez_68:
(Start: 38 @44027 has 228 MA's), (76, 43901), (83, 43859),

Gene: Paphu_65 Start: 43166, Stop: 42873, Start Num: 38
Candidate Starts for Paphu_65:
(Start: 38 @43166 has 228 MA's), (Start: 62 @43121 has 1 MA's), (67, 43091), (76, 43043), (83, 43001),

Gene: Paraselene_67 Start: 43668, Stop: 43375, Start Num: 38
Candidate Starts for Paraselene_67:
(Start: 38 @43668 has 228 MA's), (Start: 62 @43623 has 1 MA's), (67, 43593), (76, 43545), (83, 43503),

Gene: Pari_70 Start: 42376, Stop: 42083, Start Num: 38
Candidate Starts for Pari_70:
(Start: 22 @42403 has 121 MA's), (Start: 38 @42376 has 228 MA's), (Start: 62 @42331 has 1 MA's), (67, 42301), (76, 42253), (83, 42211),

Gene: Parliament_67 Start: 44958, Stop: 44665, Start Num: 38
Candidate Starts for Parliament_67:
(Start: 38 @44958 has 228 MA's), (Start: 62 @44913 has 1 MA's), (67, 44883), (71, 44871), (76, 44835), (83, 44793),

Gene: PascalRango_63 Start: 42153, Stop: 41860, Start Num: 38

Candidate Starts for PascalRango_63:
(Start: 22 @42180 has 121 MA's), (Start: 38 @42153 has 228 MA's), (Start: 62 @42108 has 1 MA's), (67, 42078), (76, 42030), (83, 41988),

Gene: PattyP_68 Start: 43888, Stop: 43595, Start Num: 38
Candidate Starts for PattyP_68:
(Start: 22 @43915 has 121 MA's), (Start: 38 @43888 has 228 MA's), (Start: 62 @43843 has 1 MA's), (67, 43813), (76, 43765), (83, 43723),

Gene: Pawn_70 Start: 42208, Stop: 41954, Start Num: 53
Candidate Starts for Pawn_70:
(Start: 22 @42262 has 121 MA's), (Start: 30 @42244 has 8 MA's), (35, 42229), (Start: 53 @42208 has 11 MA's), (66, 42175), (76, 42124), (78, 42115), (81, 42088), (83, 42082), (85, 42073), (91, 42049),

Gene: Payneful_63 Start: 41821, Stop: 41528, Start Num: 38
Candidate Starts for Payneful_63:
(Start: 38 @41821 has 228 MA's), (Start: 62 @41776 has 1 MA's), (67, 41746), (76, 41698), (83, 41656),

Gene: PeaceMeal1_62 Start: 40396, Stop: 40088, Start Num: 22
Candidate Starts for PeaceMeal1_62:
(Start: 22 @40396 has 121 MA's), (46, 40354), (61, 40330), (76, 40258), (85, 40207), (91, 40183), (101, 40108),

Gene: Pelly_68 Start: 44825, Stop: 44532, Start Num: 38
Candidate Starts for Pelly_68:
(Start: 22 @44852 has 121 MA's), (Start: 38 @44825 has 228 MA's), (Start: 62 @44780 has 1 MA's), (76, 44702), (83, 44660),

Gene: Pembroke_72 Start: 42442, Stop: 42134, Start Num: 22
Candidate Starts for Pembroke_72:
(Start: 22 @42442 has 121 MA's), (Start: 30 @42424 has 8 MA's), (35, 42409), (Start: 53 @42388 has 11 MA's), (66, 42355), (76, 42304), (78, 42295), (81, 42268), (83, 42262), (91, 42229),

Gene: Penny1_72 Start: 42445, Stop: 42137, Start Num: 22
Candidate Starts for Penny1_72:
(Start: 22 @42445 has 121 MA's), (Start: 30 @42427 has 8 MA's), (35, 42412), (Start: 53 @42391 has 11 MA's), (66, 42358), (76, 42307), (78, 42298), (81, 42271), (83, 42265), (91, 42232),

Gene: Pepe_64 Start: 41654, Stop: 41361, Start Num: 38
Candidate Starts for Pepe_64:
(Start: 38 @41654 has 228 MA's), (Start: 62 @41609 has 1 MA's), (67, 41579), (76, 41531), (83, 41489),

Gene: Perseus_64 Start: 44104, Stop: 43811, Start Num: 38
Candidate Starts for Perseus_64:
(Start: 38 @44104 has 228 MA's), (Start: 62 @44059 has 1 MA's), (67, 44029), (76, 43981), (83, 43939),

Gene: Peterson_69 Start: 44970, Stop: 44677, Start Num: 38
Candidate Starts for Peterson_69:
(Start: 38 @44970 has 228 MA's), (Start: 62 @44925 has 1 MA's), (67, 44895), (76, 44847), (83, 44805),

Gene: Petp2012_69 Start: 44669, Stop: 44376, Start Num: 38
Candidate Starts for Petp2012_69:
(Start: 22 @44696 has 121 MA's), (Start: 38 @44669 has 228 MA's), (Start: 62 @44624 has 1 MA's), (67, 44594), (76, 44546), (83, 44504),

Gene: Petruchio_68 Start: 42490, Stop: 42197, Start Num: 38
Candidate Starts for Petruchio_68:
(4, 42748), (7, 42712), (Start: 22 @42517 has 121 MA's), (Start: 38 @42490 has 228 MA's), (Start: 62 @42445 has 1 MA's), (67, 42415), (76, 42367), (83, 42325),

Gene: Phaded_66 Start: 43672, Stop: 43412, Start Num: 60
Candidate Starts for Phaded_66:
(17, 43840), (23, 43759), (Start: 60 @43672 has 25 MA's), (78, 43576), (83, 43543), (91, 43510), (93, 43501), (95, 43489),

Gene: Phaeder_73 Start: 42568, Stop: 42290, Start Num: 45
Candidate Starts for Phaeder_73:
(Start: 45 @42568 has 31 MA's), (77, 42460), (86, 42406), (88, 42397), (95, 42367),

Gene: Phantastic_69 Start: 41822, Stop: 41451, Start Num: 22
Candidate Starts for Phantastic_69:
(Start: 22 @41822 has 121 MA's), (31, 41801), (35, 41789), (Start: 53 @41765 has 11 MA's), (86, 41612), (91, 41594), (93, 41585), (95, 41573),

Gene: Pharaoh_67 Start: 42614, Stop: 42354, Start Num: 49
Candidate Starts for Pharaoh_67:
(Start: 49 @42614 has 7 MA's), (77, 42521), (78, 42515), (83, 42482), (85, 42473),

Gene: PherrisBueller_67 Start: 41610, Stop: 41317, Start Num: 38
Candidate Starts for PherrisBueller_67:
(Start: 22 @41637 has 121 MA's), (Start: 38 @41610 has 228 MA's), (Start: 62 @41565 has 1 MA's), (67, 41535), (76, 41487), (83, 41445),

Gene: Phillis_77 Start: 42884, Stop: 42600, Start Num: 54
Candidate Starts for Phillis_77:
(Start: 54 @42884 has 9 MA's), (68, 42842), (77, 42800), (78, 42794), (91, 42722), (93, 42713), (94, 42704),

Gene: PhineBark_65 Start: 42788, Stop: 42495, Start Num: 38
Candidate Starts for PhineBark_65:
(Start: 38 @42788 has 228 MA's), (Start: 62 @42743 has 1 MA's), (67, 42713), (76, 42665), (83, 42623),

Gene: PhishRPhriends_68 Start: 41439, Stop: 41131, Start Num: 22
Candidate Starts for PhishRPhriends_68:
(Start: 22 @41439 has 121 MA's), (Start: 30 @41421 has 8 MA's), (35, 41406), (Start: 53 @41385 has 11 MA's), (66, 41352), (76, 41301), (78, 41292), (81, 41265), (83, 41259), (85, 41250), (91, 41226),

Gene: Phlei_58 Start: 41698, Stop: 41450, Start Num: 56
Candidate Starts for Phlei_58:
(56, 41698), (Start: 60 @41689 has 25 MA's), (Start: 62 @41683 has 1 MA's), (70, 41653), (75, 41638), (76, 41614), (78, 41605), (80, 41581), (83, 41572), (86, 41557), (91, 41539), (95, 41518),

Gene: Phlippers_61 Start: 42632, Stop: 42339, Start Num: 38
Candidate Starts for Phlippers_61:
(Start: 22 @42659 has 121 MA's), (Start: 38 @42632 has 228 MA's), (Start: 62 @42587 has 1 MA's), (67, 42557), (71, 42545), (76, 42509), (83, 42467),

Gene: Phonnegut_73 Start: 42638, Stop: 42360, Start Num: 45
Candidate Starts for Phonnegut_73:
(Start: 45 @42638 has 31 MA's), (77, 42530), (86, 42476), (88, 42467), (95, 42437),

Gene: Phoxy_72 Start: 42466, Stop: 42158, Start Num: 22
Candidate Starts for Phoxy_72:
(Start: 22 @42466 has 121 MA's), (Start: 30 @42448 has 8 MA's), (35, 42433), (Start: 53 @42412 has 11 MA's), (66, 42379), (76, 42328), (78, 42319), (81, 42292), (83, 42286), (91, 42253),

Gene: Phranny_72 Start: 42190, Stop: 41936, Start Num: 53
Candidate Starts for Phranny_72:
(35, 42211), (Start: 53 @42190 has 11 MA's), (66, 42157), (76, 42106), (78, 42097), (81, 42070), (83, 42064), (85, 42055), (91, 42031),

Gene: PhrostyMug_66 Start: 44118, Stop: 43825, Start Num: 38
Candidate Starts for PhrostyMug_66:
(Start: 38 @44118 has 228 MA's), (Start: 62 @44073 has 1 MA's), (67, 44043), (76, 43995), (83, 43953),

Gene: PinkPlastic_65 Start: 42426, Stop: 42133, Start Num: 38
Candidate Starts for PinkPlastic_65:
(Start: 22 @42453 has 121 MA's), (Start: 38 @42426 has 228 MA's), (Start: 62 @42381 has 1 MA's), (67, 42351), (76, 42303), (83, 42261),

Gene: Pinto_66 Start: 42379, Stop: 42086, Start Num: 38
Candidate Starts for Pinto_66:
(4, 42637), (7, 42601), (Start: 22 @42406 has 121 MA's), (Start: 38 @42379 has 228 MA's), (Start: 62 @42334 has 1 MA's), (67, 42304), (76, 42256), (83, 42214),

Gene: Pioneer_73 Start: 42638, Stop: 42360, Start Num: 45
Candidate Starts for Pioneer_73:
(Start: 45 @42638 has 31 MA's), (77, 42530), (86, 42476), (88, 42467), (95, 42437),

Gene: Pippin_65 Start: 41805, Stop: 41512, Start Num: 38
Candidate Starts for Pippin_65:
(Start: 22 @41832 has 121 MA's), (Start: 38 @41805 has 228 MA's), (Start: 62 @41760 has 1 MA's), (67, 41730), (76, 41682), (83, 41640),

Gene: Piro94_70 Start: 43019, Stop: 42780, Start Num: 64
Candidate Starts for Piro94_70:
(Start: 64 @43019 has 39 MA's), (70, 42992), (71, 42989), (78, 42944), (83, 42911), (91, 42878), (93, 42869), (95, 42857),

Gene: Pistachio_67 Start: 41751, Stop: 41383, Start Num: 22
Candidate Starts for Pistachio_67:
(Start: 22 @41751 has 121 MA's), (31, 41730), (35, 41718), (Start: 53 @41694 has 11 MA's), (86, 41544), (91, 41526), (95, 41505),

Gene: Pita2_67 Start: 42577, Stop: 42284, Start Num: 38
Candidate Starts for Pita2_67:
(Start: 22 @42604 has 121 MA's), (Start: 38 @42577 has 228 MA's), (Start: 62 @42532 has 1 MA's), (67, 42502), (76, 42454), (83, 42412),

Gene: Pmask_70 Start: 41287, Stop: 41039, Start Num: 60
Candidate Starts for Pmask_70:
(10, 41527), (17, 41455), (23, 41374), (39, 41329), (Start: 60 @41287 has 25 MA's), (76, 41212), (83, 41170), (90, 41140), (93, 41128),

Gene: Pocahontas_66 Start: 42157, Stop: 41786, Start Num: 22
Candidate Starts for Pocahontas_66:
(Start: 22 @42157 has 121 MA's), (35, 42124), (Start: 53 @42100 has 11 MA's), (76, 42004), (86, 41947), (91, 41929), (95, 41908),

Gene: Polyphemus_73 Start: 41677, Stop: 41429, Start Num: 60
Candidate Starts for Polyphemus_73:
(10, 41917), (17, 41845), (23, 41764), (39, 41719), (Start: 60 @41677 has 25 MA's), (76, 41602), (83, 41560), (90, 41530), (93, 41518),

Gene: Poompha_61 Start: 40394, Stop: 40086, Start Num: 22
Candidate Starts for Poompha_61:
(Start: 22 @40394 has 121 MA's), (46, 40352), (61, 40328), (76, 40256), (85, 40205), (91, 40181), (101, 40106),

Gene: Popcicle_67 Start: 42157, Stop: 41786, Start Num: 22
Candidate Starts for Popcicle_67:
(Start: 22 @42157 has 121 MA's), (35, 42124), (Start: 53 @42100 has 11 MA's), (76, 42004), (86, 41947), (91, 41929), (95, 41908),

Gene: PotatoSplit_73 Start: 42445, Stop: 42137, Start Num: 22
Candidate Starts for PotatoSplit_73:
(Start: 22 @42445 has 121 MA's), (Start: 30 @42427 has 8 MA's), (35, 42412), (Start: 53 @42391 has 11 MA's), (66, 42358), (76, 42307), (78, 42298), (81, 42271), (83, 42265), (91, 42232),

Gene: PowerRanger_65 Start: 43852, Stop: 43559, Start Num: 38
Candidate Starts for PowerRanger_65:
(Start: 22 @43879 has 121 MA's), (Start: 38 @43852 has 228 MA's), (Start: 62 @43807 has 1 MA's), (76, 43729), (83, 43687),

Gene: Priamo_73 Start: 41142, Stop: 40894, Start Num: 60
Candidate Starts for Priamo_73:
(10, 41382), (17, 41310), (23, 41229), (39, 41184), (Start: 60 @41142 has 25 MA's), (76, 41067), (83, 41025), (90, 40995), (93, 40983),

Gene: Priya_71 Start: 42365, Stop: 42087, Start Num: 45
Candidate Starts for Priya_71:
(Start: 45 @42365 has 31 MA's), (77, 42257), (86, 42203), (88, 42194), (95, 42164),

Gene: ProMouse_70 Start: 43095, Stop: 42802, Start Num: 38
Candidate Starts for ProMouse_70:

(Start: 22 @43122 has 121 MA's), (Start: 38 @43095 has 228 MA's), (Start: 62 @43050 has 1 MA's), (67, 43020), (76, 42972), (83, 42930),

Gene: Prudy_67 Start: 43039, Stop: 42800, Start Num: 64
Candidate Starts for Prudy_67:
(Start: 64 @43039 has 39 MA's), (70, 43012), (78, 42964), (83, 42931), (91, 42898), (93, 42889), (95, 42877),

Gene: Pukovnik_67 Start: 43337, Stop: 43080, Start Num: 60
Candidate Starts for Pukovnik_67:
(17, 43505), (Start: 60 @43337 has 25 MA's), (78, 43244), (83, 43211), (91, 43178), (93, 43169), (95, 43157),

Gene: Puppet_64 Start: 43810, Stop: 43517, Start Num: 38
Candidate Starts for Puppet_64:
(28, 43846), (Start: 38 @43810 has 228 MA's), (Start: 62 @43765 has 1 MA's), (67, 43735), (76, 43687), (83, 43645),

Gene: Puppy_68 Start: 41766, Stop: 41455, Start Num: 53
Candidate Starts for Puppy_68:
(Start: 22 @41823 has 121 MA's), (31, 41802), (35, 41790), (Start: 53 @41766 has 11 MA's), (86, 41616), (91, 41598), (95, 41577),

Gene: PurpleHaze_71 Start: 42257, Stop: 41949, Start Num: 22
Candidate Starts for PurpleHaze_71:
(Start: 22 @42257 has 121 MA's), (Start: 30 @42239 has 8 MA's), (35, 42224), (Start: 53 @42203 has 11 MA's), (66, 42170), (76, 42119), (78, 42110), (81, 42083), (83, 42077), (91, 42044),

Gene: QTRlifeCrisis_67 Start: 43106, Stop: 42813, Start Num: 38
Candidate Starts for QTRlifeCrisis_67:
(Start: 22 @43133 has 121 MA's), (Start: 38 @43106 has 228 MA's), (Start: 62 @43061 has 1 MA's), (67, 43031), (76, 42983), (83, 42941),

Gene: Qobbit_71 Start: 42327, Stop: 42049, Start Num: 45
Candidate Starts for Qobbit_71:
(Start: 45 @42327 has 31 MA's), (77, 42219), (86, 42165), (88, 42156), (95, 42126),

Gene: QuinnKiro_66 Start: 42160, Stop: 41789, Start Num: 22
Candidate Starts for QuinnKiro_66:
(Start: 22 @42160 has 121 MA's), (35, 42127), (Start: 53 @42103 has 11 MA's), (76, 42007), (86, 41950), (91, 41932), (95, 41911),

Gene: Rachaly_67 Start: 42676, Stop: 42434, Start Num: 64
Candidate Starts for Rachaly_67:
(Start: 64 @42676 has 39 MA's), (70, 42649), (78, 42601), (83, 42568), (91, 42535), (93, 42526),

Gene: Rahalelujah_72 Start: 42339, Stop: 42037, Start Num: 36
Candidate Starts for Rahalelujah_72:
(8, 42549), (Start: 36 @42339 has 6 MA's), (83, 42177), (95, 42123),

Gene: Raid_65 Start: 42932, Stop: 42639, Start Num: 38
Candidate Starts for Raid_65:

(Start: 22 @42959 has 121 MA's), (Start: 38 @42932 has 228 MA's), (Start: 58 @42899 has 1 MA's), (Start: 62 @42887 has 1 MA's), (67, 42857), (76, 42809), (83, 42767),

Gene: Rajelicia_66 Start: 44209, Stop: 43916, Start Num: 38
Candidate Starts for Rajelicia_66:
(Start: 22 @44236 has 121 MA's), (Start: 38 @44209 has 228 MA's), (Start: 62 @44164 has 1 MA's), (67, 44134), (76, 44086), (83, 44044),

Gene: Ravana_82 Start: 45133, Stop: 44855, Start Num: 50
Candidate Starts for Ravana_82:
(20, 45208), (Start: 50 @45133 has 26 MA's), (73, 45055), (78, 45016), (83, 44983), (90, 44953), (91, 44950), (95, 44929),

Gene: ReMo_78 Start: 43472, Stop: 43194, Start Num: 50
Candidate Starts for ReMo_78:
(21, 43532), (Start: 50 @43472 has 26 MA's), (73, 43394), (78, 43355), (83, 43322), (90, 43292), (91, 43289), (95, 43268), (97, 43235),

Gene: Reba_71 Start: 41863, Stop: 41609, Start Num: 53
Candidate Starts for Reba_71:
(35, 41884), (Start: 53 @41863 has 11 MA's), (66, 41830), (76, 41779), (78, 41770), (81, 41743), (83, 41737), (85, 41728), (91, 41704),

Gene: Rebeuca_65 Start: 41710, Stop: 41402, Start Num: 22
Candidate Starts for Rebeuca_65:
(Start: 22 @41710 has 121 MA's), (33, 41692), (46, 41668), (61, 41644), (85, 41521), (91, 41497), (101, 41422),

Gene: RedRock_70 Start: 43508, Stop: 43269, Start Num: 64
Candidate Starts for RedRock_70:
(Start: 64 @43508 has 39 MA's), (76, 43442), (78, 43433), (83, 43400), (91, 43367), (93, 43358), (95, 43346),

Gene: Refuge_68 Start: 43722, Stop: 43405, Start Num: 26
Candidate Starts for Refuge_68:
(12, 43860), (14, 43821), (24, 43725), (Start: 26 @43722 has 3 MA's), (Start: 49 @43668 has 7 MA's), (70, 43617), (76, 43578), (78, 43569), (83, 43536),

Gene: Remus_81 Start: 43800, Stop: 43522, Start Num: 50
Candidate Starts for Remus_81:
(20, 43875), (Start: 50 @43800 has 26 MA's), (73, 43722), (78, 43683), (83, 43650), (90, 43620), (91, 43617), (95, 43596), (97, 43563),

Gene: ResDef_65 Start: 42160, Stop: 41789, Start Num: 22
Candidate Starts for ResDef_65:
(Start: 22 @42160 has 121 MA's), (35, 42127), (Start: 53 @42103 has 11 MA's), (76, 42007), (86, 41950), (91, 41932), (95, 41911),

Gene: RhynO_64 Start: 41351, Stop: 41043, Start Num: 22
Candidate Starts for RhynO_64:
(Start: 22 @41351 has 121 MA's), (46, 41309), (61, 41285), (86, 41156), (91, 41138), (101, 41063),

Gene: Rhynn_62 Start: 42109, Stop: 41816, Start Num: 38

Candidate Starts for Rhynn_62:
(Start: 38 @42109 has 228 MA's), (Start: 62 @42064 has 1 MA's), (67, 42034), (76, 41986), (83, 41944),

Gene: RidgeCB_66 Start: 42526, Stop: 42233, Start Num: 38
Candidate Starts for RidgeCB_66:
(Start: 22 @42553 has 121 MA's), (Start: 38 @42526 has 228 MA's), (Start: 62 @42481 has 1 MA's), (67, 42451), (76, 42403), (83, 42361),

Gene: Ringer_69 Start: 44632, Stop: 44339, Start Num: 38
Candidate Starts for Ringer_69:
(Start: 22 @44659 has 121 MA's), (Start: 38 @44632 has 228 MA's), (Start: 62 @44587 has 1 MA's), (67, 44557), (76, 44509), (83, 44467),

Gene: Rockstar_66 Start: 41645, Stop: 41277, Start Num: 22
Candidate Starts for Rockstar_66:
(Start: 22 @41645 has 121 MA's), (35, 41612), (Start: 53 @41588 has 11 MA's), (86, 41438), (91, 41420), (93, 41411), (95, 41399),

Gene: Rohr_67 Start: 43844, Stop: 43551, Start Num: 38
Candidate Starts for Rohr_67:
(Start: 22 @43871 has 121 MA's), (Start: 38 @43844 has 228 MA's), (Start: 62 @43799 has 1 MA's), (67, 43769), (76, 43721), (83, 43679),

Gene: Roimos_65 Start: 42024, Stop: 41659, Start Num: 22
Candidate Starts for Roimos_65:
(Start: 22 @42024 has 121 MA's), (31, 42003), (35, 41991), (Start: 53 @41967 has 11 MA's), (86, 41817), (91, 41799), (93, 41790), (95, 41778),

Gene: Rosalind_78 Start: 43296, Stop: 43018, Start Num: 50
Candidate Starts for Rosalind_78:
(21, 43356), (Start: 50 @43296 has 26 MA's), (73, 43218), (78, 43179), (83, 43146), (90, 43116), (91, 43113), (95, 43092), (97, 43059),

Gene: Rowdy_66 Start: 41423, Stop: 41115, Start Num: 22
Candidate Starts for Rowdy_66:
(Start: 22 @41423 has 121 MA's), (46, 41381), (61, 41357), (76, 41285), (86, 41228), (91, 41210), (101, 41135),

Gene: Rubeus_65 Start: 40346, Stop: 40053, Start Num: 38
Candidate Starts for Rubeus_65:
(Start: 22 @40373 has 121 MA's), (Start: 38 @40346 has 228 MA's), (Start: 62 @40301 has 1 MA's), (67, 40271), (76, 40223), (83, 40181),

Gene: Rufus_68 Start: 43030, Stop: 42737, Start Num: 38
Candidate Starts for Rufus_68:
(Start: 22 @43057 has 121 MA's), (Start: 38 @43030 has 228 MA's), (Start: 62 @42985 has 1 MA's), (67, 42955), (76, 42907), (83, 42865),

Gene: Rummer_71 Start: 42469, Stop: 42161, Start Num: 22
Candidate Starts for Rummer_71:
(Start: 22 @42469 has 121 MA's), (Start: 30 @42451 has 8 MA's), (35, 42436), (Start: 53 @42415 has 11 MA's), (66, 42382), (76, 42331), (78, 42322), (81, 42295), (83, 42289), (91, 42256),

Gene: Ruotula_72 Start: 45133, Stop: 44840, Start Num: 38
Candidate Starts for Ruotula_72:
(Start: 22 @45160 has 121 MA's), (Start: 38 @45133 has 228 MA's), (Start: 62 @45088 has 1 MA's), (67, 45058), (76, 45010), (83, 44968),

Gene: Rutherferd_67 Start: 43925, Stop: 43632, Start Num: 38
Candidate Starts for Rutherferd_67:
(Start: 38 @43925 has 228 MA's), (Start: 62 @43880 has 1 MA's), (76, 43802), (83, 43760),

Gene: RyeScarlet_73 Start: 42613, Stop: 42335, Start Num: 45
Candidate Starts for RyeScarlet_73:
(Start: 45 @42613 has 31 MA's), (77, 42505), (86, 42451), (88, 42442), (95, 42412),

Gene: STLscum_75 Start: 44847, Stop: 44554, Start Num: 38
Candidate Starts for STLscum_75:
(Start: 38 @44847 has 228 MA's), (Start: 62 @44802 has 1 MA's), (67, 44772), (76, 44724), (83, 44682),

Gene: Sabia_70 Start: 42432, Stop: 42142, Start Num: 30
Candidate Starts for Sabia_70:
(Start: 30 @42432 has 8 MA's), (35, 42417), (Start: 53 @42396 has 11 MA's), (66, 42363), (76, 42312), (78, 42303), (81, 42276), (83, 42270), (91, 42237),

Gene: Sabinator_70 Start: 42440, Stop: 42132, Start Num: 22
Candidate Starts for Sabinator_70:
(Start: 22 @42440 has 121 MA's), (Start: 30 @42422 has 8 MA's), (35, 42407), (Start: 53 @42386 has 11 MA's), (66, 42353), (76, 42302), (78, 42293), (81, 42266), (83, 42260), (91, 42227),

Gene: Sachima_73 Start: 42594, Stop: 42316, Start Num: 45
Candidate Starts for Sachima_73:
(Start: 45 @42594 has 31 MA's), (77, 42486), (86, 42432), (88, 42423), (95, 42393),

Gene: Sagefire_67 Start: 44059, Stop: 43766, Start Num: 38
Candidate Starts for Sagefire_67:
(Start: 38 @44059 has 228 MA's), (Start: 62 @44014 has 1 MA's), (67, 43984), (76, 43936), (83, 43894),

Gene: Sandaddy_63 Start: 42327, Stop: 42034, Start Num: 38
Candidate Starts for Sandaddy_63:
(Start: 22 @42354 has 121 MA's), (Start: 38 @42327 has 228 MA's), (Start: 62 @42282 has 1 MA's), (67, 42252), (76, 42204), (83, 42162),

Gene: Sanya_64 Start: 43586, Stop: 43293, Start Num: 38
Candidate Starts for Sanya_64:
(Start: 22 @43613 has 121 MA's), (Start: 38 @43586 has 228 MA's), (Start: 62 @43541 has 1 MA's), (67, 43511), (76, 43463), (83, 43421),

Gene: SarFire_65 Start: 42573, Stop: 42280, Start Num: 38
Candidate Starts for SarFire_65:
(Start: 22 @42600 has 121 MA's), (Start: 38 @42573 has 228 MA's), (Start: 62 @42528 has 1 MA's), (76, 42450), (83, 42408),

Gene: SaturnRing_67 Start: 42204, Stop: 41836, Start Num: 22
Candidate Starts for SaturnRing_67:
(Start: 22 @42204 has 121 MA's), (31, 42183), (35, 42171), (Start: 53 @42147 has 11 MA's), (86, 41997), (91, 41979), (95, 41958),

Gene: Scherzo_72 Start: 42857, Stop: 42579, Start Num: 45
Candidate Starts for Scherzo_72:
(Start: 45 @42857 has 31 MA's), (77, 42749), (86, 42695), (88, 42686), (95, 42656),

Gene: Scout_66 Start: 41355, Stop: 40990, Start Num: 22
Candidate Starts for Scout_66:
(Start: 22 @41355 has 121 MA's), (31, 41334), (35, 41322), (Start: 53 @41298 has 11 MA's), (86, 41148), (91, 41130), (93, 41121), (95, 41109),

Gene: Scowl_67 Start: 42499, Stop: 42206, Start Num: 38
Candidate Starts for Scowl_67:
(Start: 38 @42499 has 228 MA's), (Start: 62 @42454 has 1 MA's), (67, 42424), (76, 42376), (83, 42334),

Gene: Severus_62 Start: 40394, Stop: 40086, Start Num: 22
Candidate Starts for Severus_62:
(Start: 22 @40394 has 121 MA's), (46, 40352), (61, 40328), (76, 40256), (85, 40205), (91, 40181), (101, 40106),

Gene: Shapes_66 Start: 41423, Stop: 41115, Start Num: 22
Candidate Starts for Shapes_66:
(Start: 22 @41423 has 121 MA's), (46, 41381), (61, 41357), (76, 41285), (86, 41228), (91, 41210), (101, 41135),

Gene: ShayRa_80 Start: 43325, Stop: 43047, Start Num: 50
Candidate Starts for ShayRa_80:
(21, 43385), (Start: 50 @43325 has 26 MA's), (73, 43247), (78, 43208), (83, 43175), (90, 43145), (91, 43142), (95, 43121), (97, 43088),

Gene: SheaKeira_67 Start: 41628, Stop: 41359, Start Num: 53
Candidate Starts for SheaKeira_67:
(Start: 53 @41628 has 11 MA's), (76, 41532), (77, 41529), (86, 41475), (88, 41466), (95, 41436),

Gene: Sheen_69 Start: 45854, Stop: 45495, Start Num: 22
Candidate Starts for Sheen_69:
(Start: 22 @45854 has 121 MA's), (40, 45818), (76, 45713), (86, 45656), (91, 45638), (95, 45617),

Gene: Shep_65 Start: 41105, Stop: 40740, Start Num: 22
Candidate Starts for Shep_65:
(Start: 22 @41105 has 121 MA's), (31, 41084), (35, 41072), (Start: 53 @41048 has 11 MA's), (86, 40898), (91, 40880), (93, 40871), (95, 40859),

Gene: ShortQueendom_59 Start: 40038, Stop: 39745, Start Num: 38
Candidate Starts for ShortQueendom_59:
(Start: 22 @40065 has 121 MA's), (Start: 38 @40038 has 228 MA's), (Start: 62 @39993 has 1 MA's), (67, 39963), (76, 39915), (83, 39873),

Gene: Sibs6_68 Start: 41229, Stop: 40936, Start Num: 38

Candidate Starts for Sibs6_68:
(Start: 22 @41256 has 121 MA's), (Start: 38 @41229 has 228 MA's), (Start: 62 @41184 has 1 MA's), (67, 41154), (76, 41106), (83, 41064),

Gene: SkiPole_74 Start: 44120, Stop: 43827, Start Num: 38
Candidate Starts for SkiPole_74:
(Start: 38 @44120 has 228 MA's), (Start: 62 @44075 has 1 MA's), (67, 44045), (76, 43997), (83, 43955),

Gene: Sknot_71 Start: 43051, Stop: 42812, Start Num: 64
Candidate Starts for Sknot_71:
(Start: 47 @43090 has 6 MA's), (Start: 64 @43051 has 39 MA's), (70, 43024), (71, 43021), (78, 42976), (83, 42943), (91, 42910), (93, 42901), (95, 42889), (102, 42832),

Gene: Slagathor_68 Start: 44595, Stop: 44302, Start Num: 38
Candidate Starts for Slagathor_68:
(Start: 22 @44622 has 121 MA's), (Start: 38 @44595 has 228 MA's), (Start: 62 @44550 has 1 MA's), (67, 44520), (76, 44472), (83, 44430),

Gene: Smairt_68 Start: 45112, Stop: 44819, Start Num: 38
Candidate Starts for Smairt_68:
(Start: 38 @45112 has 228 MA's), (Start: 62 @45067 has 1 MA's), (67, 45037), (76, 44989), (83, 44947),

Gene: Smeagol_68 Start: 44353, Stop: 44060, Start Num: 38
Candidate Starts for Smeagol_68:
(Start: 38 @44353 has 228 MA's), (Start: 62 @44308 has 1 MA's), (67, 44278), (76, 44230), (83, 44188),

Gene: Snazzy_63 Start: 41494, Stop: 41201, Start Num: 38
Candidate Starts for Snazzy_63:
(Start: 22 @41521 has 121 MA's), (Start: 38 @41494 has 228 MA's), (Start: 62 @41449 has 1 MA's), (67, 41419), (76, 41371), (83, 41329),

Gene: SoYo_69 Start: 42353, Stop: 42045, Start Num: 22
Candidate Starts for SoYo_69:
(Start: 22 @42353 has 121 MA's), (Start: 30 @42335 has 8 MA's), (35, 42320), (Start: 53 @42299 has 11 MA's), (66, 42266), (76, 42215), (78, 42206), (81, 42179), (83, 42173), (91, 42140),

Gene: SoilDragon_71 Start: 41889, Stop: 41581, Start Num: 22
Candidate Starts for SoilDragon_71:
(Start: 22 @41889 has 121 MA's), (Start: 30 @41871 has 8 MA's), (35, 41856), (Start: 53 @41835 has 11 MA's), (66, 41802), (76, 41751), (78, 41742), (81, 41715), (83, 41709), (85, 41700), (91, 41676),

Gene: Solon_64 Start: 42070, Stop: 41777, Start Num: 38
Candidate Starts for Solon_64:
(Start: 22 @42097 has 121 MA's), (Start: 38 @42070 has 228 MA's), (Start: 62 @42025 has 1 MA's), (67, 41995), (71, 41983), (76, 41947), (83, 41905),

Gene: SororFago_72 Start: 43648, Stop: 43376, Start Num: 49
Candidate Starts for SororFago_72:
(3, 43936), (Start: 37 @43669 has 2 MA's), (Start: 49 @43648 has 7 MA's), (77, 43546), (82, 43510), (83, 43507), (93, 43465), (95, 43453), (100, 43402),

Gene: Sorpresa_64 Start: 42329, Stop: 42036, Start Num: 38
Candidate Starts for Sorpresa_64:
(Start: 22 @42356 has 121 MA's), (Start: 38 @42329 has 228 MA's), (Start: 62 @42284 has 1 MA's), (67, 42254), (76, 42206), (83, 42164),

Gene: Soshari_74 Start: 42465, Stop: 42157, Start Num: 22
Candidate Starts for Soshari_74:
(Start: 22 @42465 has 121 MA's), (Start: 30 @42447 has 8 MA's), (35, 42432), (Start: 53 @42411 has 11 MA's), (66, 42378), (76, 42327), (78, 42318), (81, 42291), (83, 42285), (91, 42252),

Gene: Soups_80 Start: 43589, Stop: 43311, Start Num: 50
Candidate Starts for Soups_80:
(20, 43664), (Start: 50 @43589 has 26 MA's), (73, 43511), (78, 43472), (83, 43439), (90, 43409), (91, 43406), (95, 43385), (97, 43352),

Gene: Spike509_72 Start: 42466, Stop: 42158, Start Num: 22
Candidate Starts for Spike509_72:
(Start: 22 @42466 has 121 MA's), (Start: 30 @42448 has 8 MA's), (35, 42433), (Start: 53 @42412 has 11 MA's), (66, 42379), (76, 42328), (78, 42319), (81, 42292), (83, 42286), (91, 42253),

Gene: SpikeBT_64 Start: 42693, Stop: 42400, Start Num: 38
Candidate Starts for SpikeBT_64:
(Start: 22 @42720 has 121 MA's), (Start: 38 @42693 has 228 MA's), (Start: 62 @42648 has 1 MA's), (67, 42618), (71, 42606), (76, 42570), (83, 42528),

Gene: Spouty_71 Start: 42364, Stop: 42086, Start Num: 45
Candidate Starts for Spouty_71:
(Start: 45 @42364 has 31 MA's), (77, 42256), (86, 42202), (88, 42193), (95, 42163),

Gene: Squee_69 Start: 42726, Stop: 42433, Start Num: 38
Candidate Starts for Squee_69:
(Start: 38 @42726 has 228 MA's), (Start: 62 @42681 has 1 MA's), (67, 42651), (76, 42603), (83, 42561),

Gene: StepMih_71 Start: 42435, Stop: 42127, Start Num: 22
Candidate Starts for StepMih_71:
(Start: 22 @42435 has 121 MA's), (Start: 30 @42417 has 8 MA's), (35, 42402), (Start: 53 @42381 has 11 MA's), (66, 42348), (76, 42297), (78, 42288), (81, 42261), (83, 42255), (91, 42222),

Gene: StewieG_59 Start: 38877, Stop: 38584, Start Num: 38
Candidate Starts for StewieG_59:
(4, 39135), (7, 39099), (Start: 22 @38904 has 121 MA's), (Start: 38 @38877 has 228 MA's), (Start: 62 @38832 has 1 MA's), (67, 38802), (76, 38754), (83, 38712),

Gene: StrongArm_64 Start: 43443, Stop: 43150, Start Num: 38
Candidate Starts for StrongArm_64:
(Start: 22 @43470 has 121 MA's), (Start: 38 @43443 has 228 MA's), (Start: 62 @43398 has 1 MA's), (67, 43368), (76, 43320), (83, 43278),

Gene: Strosahl_81 Start: 43800, Stop: 43522, Start Num: 50
Candidate Starts for Strosahl_81:

(20, 43875), (Start: 50 @43800 has 26 MA's), (73, 43722), (78, 43683), (83, 43650), (90, 43620), (91, 43617), (95, 43596), (97, 43563),

Gene: Sumter_62 Start: 42684, Stop: 42391, Start Num: 38
Candidate Starts for Sumter_62:
(Start: 22 @42711 has 121 MA's), (Start: 38 @42684 has 228 MA's), (Start: 62 @42639 has 1 MA's), (67, 42609), (76, 42561), (83, 42519),

Gene: Sunhee_72 Start: 41700, Stop: 41431, Start Num: 49
Candidate Starts for Sunhee_72:
(3, 41988), (Start: 37 @41721 has 2 MA's), (Start: 49 @41700 has 7 MA's), (77, 41601), (82, 41565), (83, 41562), (88, 41538), (93, 41520), (95, 41508), (100, 41457),

Gene: Sunshine924_71 Start: 43388, Stop: 43095, Start Num: 38
Candidate Starts for Sunshine924_71:
(Start: 38 @43388 has 228 MA's), (Start: 62 @43343 has 1 MA's), (67, 43313), (76, 43265), (83, 43223),

Gene: SuperAwesome_71 Start: 41329, Stop: 41081, Start Num: 60
Candidate Starts for SuperAwesome_71:
(10, 41569), (17, 41497), (23, 41416), (39, 41371), (Start: 60 @41329 has 25 MA's), (76, 41254), (83, 41212), (90, 41182), (93, 41170),

Gene: SuperCallie99_68 Start: 41171, Stop: 40923, Start Num: 60
Candidate Starts for SuperCallie99_68:
(10, 41411), (17, 41339), (23, 41258), (39, 41213), (Start: 60 @41171 has 25 MA's), (76, 41096), (83, 41054), (90, 41024), (93, 41012),

Gene: Superchunk_72 Start: 41714, Stop: 41472, Start Num: 63
Candidate Starts for Superchunk_72:
(Start: 63 @41714 has 3 MA's), (79, 41615), (82, 41600), (83, 41597), (84, 41591), (85, 41588), (91, 41564), (95, 41543),

Gene: SwirlSquare_76 Start: 42463, Stop: 42188, Start Num: 53
Candidate Starts for SwirlSquare_76:
(2, 42814), (9, 42703), (19, 42577), (Start: 53 @42463 has 11 MA's), (56, 42454), (70, 42394), (83, 42313), (91, 42280),

Gene: SwissCheese_69 Start: 42912, Stop: 42619, Start Num: 38
Candidate Starts for SwissCheese_69:
(Start: 22 @42939 has 121 MA's), (Start: 38 @42912 has 228 MA's), (Start: 62 @42867 has 1 MA's), (67, 42837), (76, 42789), (83, 42747),

Gene: Switzer_67 Start: 44218, Stop: 43925, Start Num: 38
Candidate Starts for Switzer_67:
(Start: 38 @44218 has 228 MA's), (Start: 62 @44173 has 1 MA's), (67, 44143), (76, 44095), (83, 44053),

Gene: Switzerland_79 Start: 43464, Stop: 43186, Start Num: 50
Candidate Starts for Switzerland_79:
(21, 43524), (Start: 50 @43464 has 26 MA's), (73, 43386), (78, 43347), (83, 43314), (90, 43284), (91, 43281), (95, 43260), (97, 43227),

Gene: Swole_67 Start: 42487, Stop: 42194, Start Num: 38
Candidate Starts for Swole_67:
(Start: 22 @42514 has 121 MA's), (Start: 38 @42487 has 228 MA's), (Start: 62 @42442 has 1 MA's), (67, 42412), (76, 42364), (83, 42322),

Gene: SydNat_65 Start: 41870, Stop: 41619, Start Num: 54
Candidate Starts for SydNat_65:
(Start: 54 @41870 has 9 MA's), (Start: 59 @41858 has 2 MA's), (76, 41786), (78, 41777), (79, 41762), (93, 41699), (97, 41654), (101, 41633), (103, 41627),

Gene: TNguyen7_68 Start: 42107, Stop: 41796, Start Num: 53
Candidate Starts for TNguyen7_68:
(Start: 22 @42164 has 121 MA's), (31, 42143), (35, 42131), (Start: 53 @42107 has 11 MA's), (86, 41957), (91, 41939), (95, 41918),

Gene: Target_69 Start: 42804, Stop: 42511, Start Num: 38
Candidate Starts for Target_69:
(Start: 38 @42804 has 228 MA's), (Start: 62 @42759 has 1 MA's), (67, 42729), (76, 42681), (83, 42639),

Gene: TarsusIV_68 Start: 43024, Stop: 42785, Start Num: 64
Candidate Starts for TarsusIV_68:
(Start: 47 @43063 has 6 MA's), (Start: 64 @43024 has 39 MA's), (71, 42994), (78, 42949), (83, 42916), (91, 42883), (93, 42874), (95, 42862), (103, 42802),

Gene: Tasp14_69 Start: 44447, Stop: 44154, Start Num: 38
Candidate Starts for Tasp14_69:
(Start: 38 @44447 has 228 MA's), (Start: 62 @44402 has 1 MA's), (67, 44372), (76, 44324), (83, 44282),

Gene: Taurus_73 Start: 42441, Stop: 42133, Start Num: 22
Candidate Starts for Taurus_73:
(Start: 22 @42441 has 121 MA's), (Start: 30 @42423 has 8 MA's), (35, 42408), (Start: 53 @42387 has 11 MA's), (66, 42354), (76, 42303), (78, 42294), (81, 42267), (83, 42261), (91, 42228),

Gene: Teodoridan_65 Start: 41810, Stop: 41517, Start Num: 38
Candidate Starts for Teodoridan_65:
(Start: 38 @41810 has 228 MA's), (Start: 62 @41765 has 1 MA's), (67, 41735), (76, 41687), (83, 41645),

Gene: Terrific_71 Start: 43025, Stop: 42786, Start Num: 64
Candidate Starts for Terrific_71:
(Start: 64 @43025 has 39 MA's), (70, 42998), (71, 42995), (78, 42950), (83, 42917), (91, 42884), (93, 42875), (95, 42863),

Gene: Texage_65 Start: 42161, Stop: 41790, Start Num: 22
Candidate Starts for Texage_65:
(Start: 22 @42161 has 121 MA's), (35, 42128), (Start: 53 @42104 has 11 MA's), (76, 42008), (86, 41951), (91, 41933), (95, 41912),

Gene: Theia_64 Start: 41988, Stop: 41749, Start Num: 59
Candidate Starts for Theia_64:

(Start: 54 @42000 has 9 MA's), (Start: 59 @41988 has 2 MA's), (76, 41916), (78, 41907), (79, 41892), (93, 41829), (97, 41784), (101, 41763),

Gene: TheloniousMonk_70 Start: 45181, Stop: 44888, Start Num: 38
Candidate Starts for TheloniousMonk_70:
(Start: 22 @45208 has 121 MA's), (Start: 38 @45181 has 228 MA's), (Start: 62 @45136 has 1 MA's), (67, 45106), (76, 45058), (83, 45016),

Gene: Thor_65 Start: 41931, Stop: 41638, Start Num: 38
Candidate Starts for Thor_65:
(Start: 22 @41958 has 121 MA's), (Start: 38 @41931 has 228 MA's), (Start: 62 @41886 has 1 MA's), (76, 41808), (83, 41766),

Gene: Tiffany_71 Start: 42309, Stop: 42019, Start Num: 30
Candidate Starts for Tiffany_71:
(Start: 30 @42309 has 8 MA's), (35, 42294), (Start: 53 @42273 has 11 MA's), (66, 42240), (76, 42189), (78, 42180), (81, 42153), (83, 42147), (91, 42114),

Gene: TinyPebbles_71 Start: 42471, Stop: 42163, Start Num: 22
Candidate Starts for TinyPebbles_71:
(6, 42678), (Start: 22 @42471 has 121 MA's), (29, 42459), (Start: 30 @42453 has 8 MA's), (35, 42438), (Start: 53 @42417 has 11 MA's), (66, 42384), (76, 42333), (78, 42324), (81, 42297), (83, 42291), (91, 42258),

Gene: Toaka_73 Start: 42844, Stop: 42566, Start Num: 47
Candidate Starts for Toaka_73:
(Start: 47 @42844 has 6 MA's), (77, 42739), (95, 42646),

Gene: Todacoro_67 Start: 42160, Stop: 41789, Start Num: 22
Candidate Starts for Todacoro_67:
(Start: 22 @42160 has 121 MA's), (35, 42127), (Start: 53 @42103 has 11 MA's), (76, 42007), (86, 41950), (91, 41932), (95, 41911),

Gene: Topanga_61 Start: 41190, Stop: 40882, Start Num: 22
Candidate Starts for Topanga_61:
(Start: 22 @41190 has 121 MA's), (46, 41148), (61, 41124), (85, 41001), (86, 40995), (91, 40977), (101, 40902),

Gene: Topgun_63 Start: 41557, Stop: 41264, Start Num: 38
Candidate Starts for Topgun_63:
(Start: 22 @41584 has 121 MA's), (Start: 38 @41557 has 228 MA's), (Start: 62 @41512 has 1 MA's), (67, 41482), (76, 41434), (83, 41392),

Gene: Toro_68 Start: 45930, Stop: 45607, Start Num: 40
Candidate Starts for Toro_68:
(Start: 22 @45966 has 121 MA's), (40, 45930), (76, 45825), (86, 45768), (91, 45750), (95, 45729),

Gene: Tote_62 Start: 39754, Stop: 39461, Start Num: 38
Candidate Starts for Tote_62:
(Start: 22 @39781 has 121 MA's), (Start: 38 @39754 has 228 MA's), (Start: 62 @39709 has 1 MA's), (67, 39679), (76, 39631), (83, 39589),

Gene: Traft412_69 Start: 43542, Stop: 43249, Start Num: 38

Candidate Starts for Traft412_69:
(Start: 38 @43542 has 228 MA's), (Start: 62 @43497 has 1 MA's), (67, 43467), (76, 43419), (83, 43377),

Gene: Treddle_66 Start: 43796, Stop: 43503, Start Num: 38
Candidate Starts for Treddle_66:
(Start: 22 @43823 has 121 MA's), (Start: 38 @43796 has 228 MA's), (Start: 62 @43751 has 1 MA's), (67, 43721), (71, 43709), (76, 43673), (83, 43631),

Gene: Trike_61 Start: 40401, Stop: 40093, Start Num: 22
Candidate Starts for Trike_61:
(Start: 22 @40401 has 121 MA's), (46, 40359), (61, 40335), (76, 40263), (85, 40212), (91, 40188), (101, 40113),

Gene: Tripl3t_70 Start: 45279, Stop: 44986, Start Num: 38
Candidate Starts for Tripl3t_70:
(Start: 38 @45279 has 228 MA's), (Start: 62 @45234 has 1 MA's), (67, 45204), (71, 45192), (76, 45156), (83, 45114),

Gene: Tristan_67 Start: 43510, Stop: 43250, Start Num: 60
Candidate Starts for Tristan_67:
(Start: 60 @43510 has 25 MA's), (78, 43414), (83, 43381), (91, 43348), (93, 43339), (95, 43327),

Gene: Trixie_69 Start: 43058, Stop: 42813, Start Num: 60
Candidate Starts for Trixie_69:
(Start: 58 @43064 has 1 MA's), (Start: 60 @43058 has 25 MA's), (70, 43025), (78, 42977), (83, 42944), (91, 42911), (93, 42902), (95, 42890), (100, 42839),

Gene: Trooper_70 Start: 42983, Stop: 42744, Start Num: 64
Candidate Starts for Trooper_70:
(Start: 47 @43022 has 6 MA's), (Start: 64 @42983 has 39 MA's), (78, 42908), (83, 42875), (91, 42842), (93, 42833), (103, 42761),

Gene: Trouble_66 Start: 42897, Stop: 42604, Start Num: 38
Candidate Starts for Trouble_66:
(Start: 38 @42897 has 228 MA's), (Start: 62 @42852 has 1 MA's), (67, 42822), (76, 42774), (83, 42732),

Gene: Tubs_73 Start: 42568, Stop: 42290, Start Num: 45
Candidate Starts for Tubs_73:
(Start: 45 @42568 has 31 MA's), (77, 42460), (86, 42406), (88, 42397), (95, 42367),

Gene: Turj99_64 Start: 43466, Stop: 43173, Start Num: 38
Candidate Starts for Turj99_64:
(Start: 22 @43493 has 121 MA's), (Start: 38 @43466 has 228 MA's), (67, 43391), (76, 43343), (83, 43301),

Gene: Twister_63 Start: 41311, Stop: 41003, Start Num: 22
Candidate Starts for Twister_63:
(Start: 22 @41311 has 121 MA's), (46, 41269), (61, 41245), (85, 41122), (86, 41116), (91, 41098), (101, 41023),

Gene: TwoPeat_67 Start: 43318, Stop: 43025, Start Num: 38

Candidate Starts for TwoPeat_67:
(Start: 22 @43345 has 121 MA's), (Start: 38 @43318 has 228 MA's), (Start: 62 @43273 has 1 MA's), (67, 43243), (76, 43195), (83, 43153),

Gene: U2_62 Start: 43288, Stop: 42995, Start Num: 38
Candidate Starts for U2_62:
(Start: 22 @43315 has 121 MA's), (Start: 38 @43288 has 228 MA's), (Start: 62 @43243 has 1 MA's), (67, 43213), (76, 43165), (83, 43123),

Gene: Ugenie5_68 Start: 42856, Stop: 42578, Start Num: 45
Candidate Starts for Ugenie5_68:
(Start: 45 @42856 has 31 MA's), (77, 42748), (86, 42694), (88, 42685), (95, 42655),

Gene: Updawg_71 Start: 42915, Stop: 42676, Start Num: 64
Candidate Starts for Updawg_71:
(Start: 64 @42915 has 39 MA's), (70, 42888), (71, 42885), (78, 42840), (83, 42807), (91, 42774), (93, 42765), (95, 42753),

Gene: VA6_70 Start: 42966, Stop: 42727, Start Num: 64
Candidate Starts for VA6_70:
(Start: 47 @43005 has 6 MA's), (Start: 64 @42966 has 39 MA's), (70, 42939), (78, 42891), (83, 42858), (91, 42825), (93, 42816), (95, 42804), (102, 42747),

Gene: Vanisoa_70 Start: 43200, Stop: 42919, Start Num: 49
Candidate Starts for Vanisoa_70:
(Start: 49 @43200 has 7 MA's), (83, 43059), (95, 43005),

Gene: Veracruz_64 Start: 42160, Stop: 41789, Start Num: 22
Candidate Starts for Veracruz_64:
(Start: 22 @42160 has 121 MA's), (35, 42127), (Start: 53 @42103 has 11 MA's), (76, 42007), (86, 41950), (91, 41932), (95, 41911),

Gene: Violet_63 Start: 44154, Stop: 43861, Start Num: 38
Candidate Starts for Violet_63:
(Start: 22 @44181 has 121 MA's), (Start: 38 @44154 has 228 MA's), (Start: 62 @44109 has 1 MA's), (67, 44079), (76, 44031), (83, 43989),

Gene: Vix_68 Start: 42524, Stop: 42216, Start Num: 22
Candidate Starts for Vix_68:
(Start: 22 @42524 has 121 MA's), (Start: 30 @42506 has 8 MA's), (35, 42491), (Start: 53 @42470 has 11 MA's), (66, 42437), (76, 42386), (78, 42377), (81, 42350), (83, 42344), (91, 42311),

Gene: Waits_80 Start: 43700, Stop: 43422, Start Num: 50
Candidate Starts for Waits_80:
(20, 43775), (Start: 50 @43700 has 26 MA's), (73, 43622), (78, 43583), (83, 43550), (90, 43520), (91, 43517), (95, 43496), (97, 43463),

Gene: WalterMcMickey_63 Start: 41311, Stop: 41003, Start Num: 22
Candidate Starts for WalterMcMickey_63:
(Start: 22 @41311 has 121 MA's), (46, 41269), (61, 41245), (85, 41122), (86, 41116), (91, 41098), (101, 41023),

Gene: Warrior24_81 Start: 44177, Stop: 43899, Start Num: 50

Candidate Starts for Warrior24_81:
(20, 44252), (Start: 50 @44177 has 26 MA's), (73, 44099), (78, 44060), (83, 44027), (90, 43997), (91, 43994), (95, 43973), (97, 43940),

Gene: Watermelon_65 Start: 41890, Stop: 41597, Start Num: 38
Candidate Starts for Watermelon_65:
(Start: 22 @41917 has 121 MA's), (Start: 38 @41890 has 228 MA's), (Start: 62 @41845 has 1 MA's), (67, 41815), (76, 41767), (83, 41725),

Gene: Watson_71 Start: 42433, Stop: 42125, Start Num: 22
Candidate Starts for Watson_71:
(Start: 22 @42433 has 121 MA's), (Start: 30 @42415 has 8 MA's), (35, 42400), (Start: 53 @42379 has 11 MA's), (66, 42346), (76, 42295), (78, 42286), (81, 42259), (83, 42253), (91, 42220),

Gene: WeiHuaDA_71 Start: 43855, Stop: 43616, Start Num: 64
Candidate Starts for WeiHuaDA_71:
(Start: 47 @43894 has 6 MA's), (Start: 64 @43855 has 39 MA's), (78, 43780), (83, 43747), (91, 43714), (93, 43705), (95, 43693), (100, 43642),

Gene: Wheeler_68 Start: 43157, Stop: 42864, Start Num: 38
Candidate Starts for Wheeler_68:
(Start: 22 @43184 has 121 MA's), (Start: 38 @43157 has 228 MA's), (Start: 62 @43112 has 1 MA's), (67, 43082), (71, 43070), (76, 43034), (83, 42992),

Gene: Whitspit_61 Start: 40235, Stop: 39942, Start Num: 38
Candidate Starts for Whitspit_61:
(Start: 38 @40235 has 228 MA's), (Start: 62 @40190 has 1 MA's), (67, 40160), (76, 40112), (83, 40070),

Gene: WideWale_71 Start: 42915, Stop: 42676, Start Num: 64
Candidate Starts for WideWale_71:
(Start: 64 @42915 has 39 MA's), (70, 42888), (71, 42885), (78, 42840), (83, 42807), (91, 42774), (93, 42765), (95, 42753),

Gene: Wilkins_64 Start: 41487, Stop: 41194, Start Num: 38
Candidate Starts for Wilkins_64:
(Start: 22 @41514 has 121 MA's), (Start: 38 @41487 has 228 MA's), (Start: 62 @41442 has 1 MA's), (67, 41412), (76, 41364), (83, 41322),

Gene: Wooldri_74 Start: 42353, Stop: 42045, Start Num: 22
Candidate Starts for Wooldri_74:
(Start: 22 @42353 has 121 MA's), (Start: 30 @42335 has 8 MA's), (35, 42320), (Start: 53 @42299 has 11 MA's), (66, 42266), (76, 42215), (78, 42206), (81, 42179), (83, 42173), (91, 42140),

Gene: WorldCup_70 Start: 42333, Stop: 42031, Start Num: 36
Candidate Starts for WorldCup_70:
(8, 42543), (Start: 36 @42333 has 6 MA's), (83, 42171), (95, 42117),

Gene: XianYue_66 Start: 42239, Stop: 41988, Start Num: 58
Candidate Starts for XianYue_66:
(39, 42275), (Start: 58 @42239 has 1 MA's), (71, 42197), (78, 42152), (83, 42119), (91, 42086), (93, 42077), (95, 42065),

Gene: Yecey3_74 Start: 42420, Stop: 42151, Start Num: 53
Candidate Starts for Yecey3_74:
(Start: 53 @42420 has 11 MA's), (76, 42324), (77, 42321), (86, 42267), (88, 42258), (95, 42228),

Gene: Zarafa_65 Start: 42117, Stop: 41752, Start Num: 22
Candidate Starts for Zarafa_65:
(Start: 22 @42117 has 121 MA's), (31, 42096), (35, 42084), (Start: 53 @42060 has 11 MA's), (86, 41910), (91, 41892), (93, 41883), (95, 41871),

Gene: Zeeculate_65 Start: 43127, Stop: 42834, Start Num: 38
Candidate Starts for Zeeculate_65:
(Start: 38 @43127 has 228 MA's), (Start: 62 @43082 has 1 MA's), (67, 43052), (76, 43004), (83, 42962), (100, 42857),

Gene: Zephyr_67 Start: 42228, Stop: 41935, Start Num: 38
Candidate Starts for Zephyr_67:
(Start: 22 @42255 has 121 MA's), (Start: 38 @42228 has 228 MA's), (Start: 62 @42183 has 1 MA's), (67, 42153), (76, 42105), (83, 42063),

Gene: Zetzy_69 Start: 42004, Stop: 41696, Start Num: 22
Candidate Starts for Zetzy_69:
(Start: 22 @42004 has 121 MA's), (Start: 30 @41986 has 8 MA's), (35, 41971), (Start: 53 @41950 has 11 MA's), (66, 41917), (76, 41866), (78, 41857), (81, 41830), (83, 41824), (91, 41791),

Gene: Zeuska_71 Start: 45391, Stop: 45098, Start Num: 38
Candidate Starts for Zeuska_71:
(Start: 38 @45391 has 228 MA's), (Start: 62 @45346 has 1 MA's), (67, 45316), (76, 45268), (83, 45226),

Gene: Zimmer_68 Start: 43433, Stop: 43122, Start Num: 26
Candidate Starts for Zimmer_68:
(24, 43436), (Start: 26 @43433 has 3 MA's), (Start: 49 @43385 has 7 MA's), (70, 43334), (76, 43295), (78, 43286), (83, 43253), (89, 43226), (100, 43148),

Gene: Zolita_64 Start: 41874, Stop: 41623, Start Num: 54
Candidate Starts for Zolita_64:
(Start: 54 @41874 has 9 MA's), (Start: 59 @41862 has 2 MA's), (76, 41790), (78, 41781), (79, 41766), (93, 41703), (97, 41658), (101, 41637), (103, 41631),