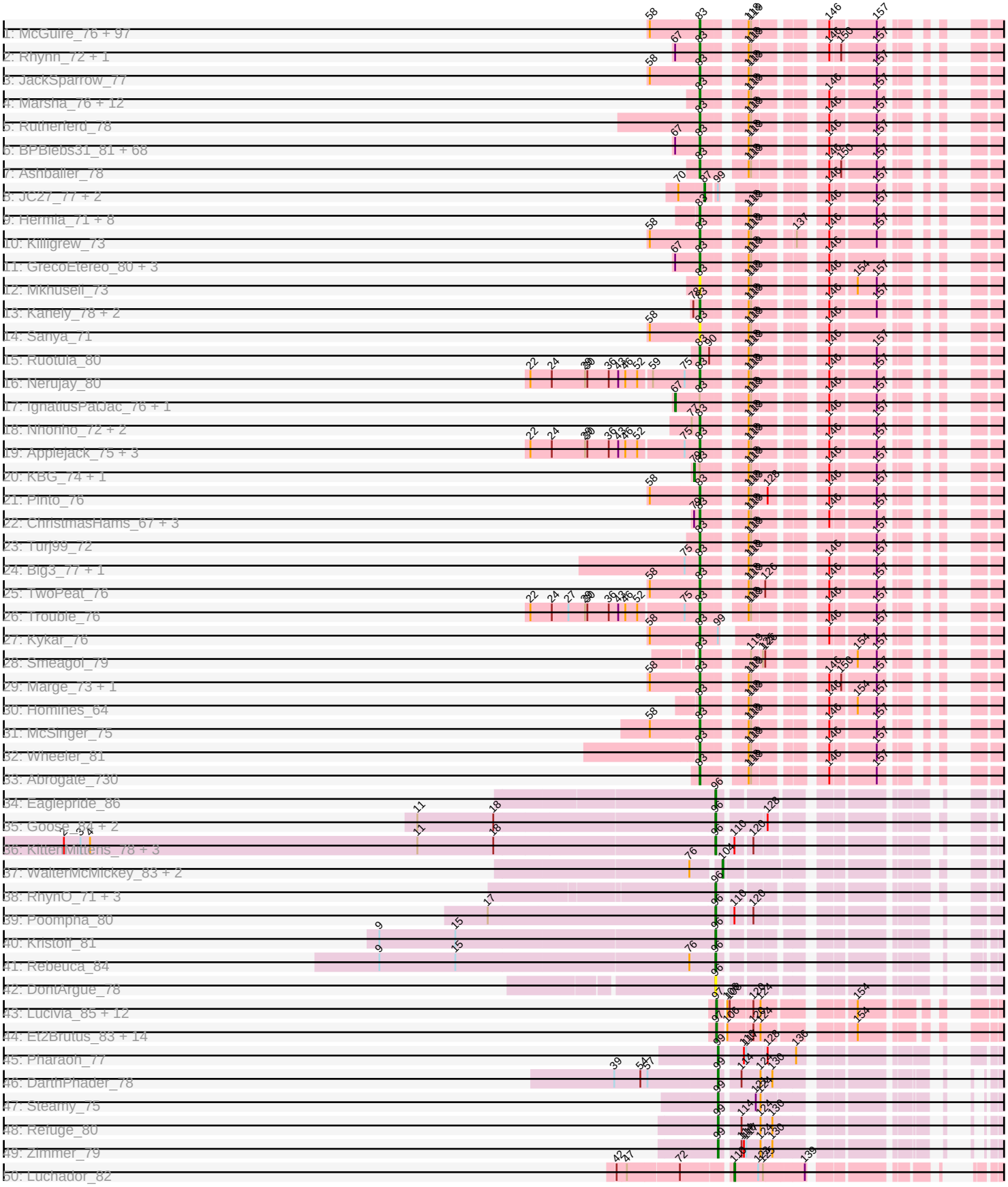
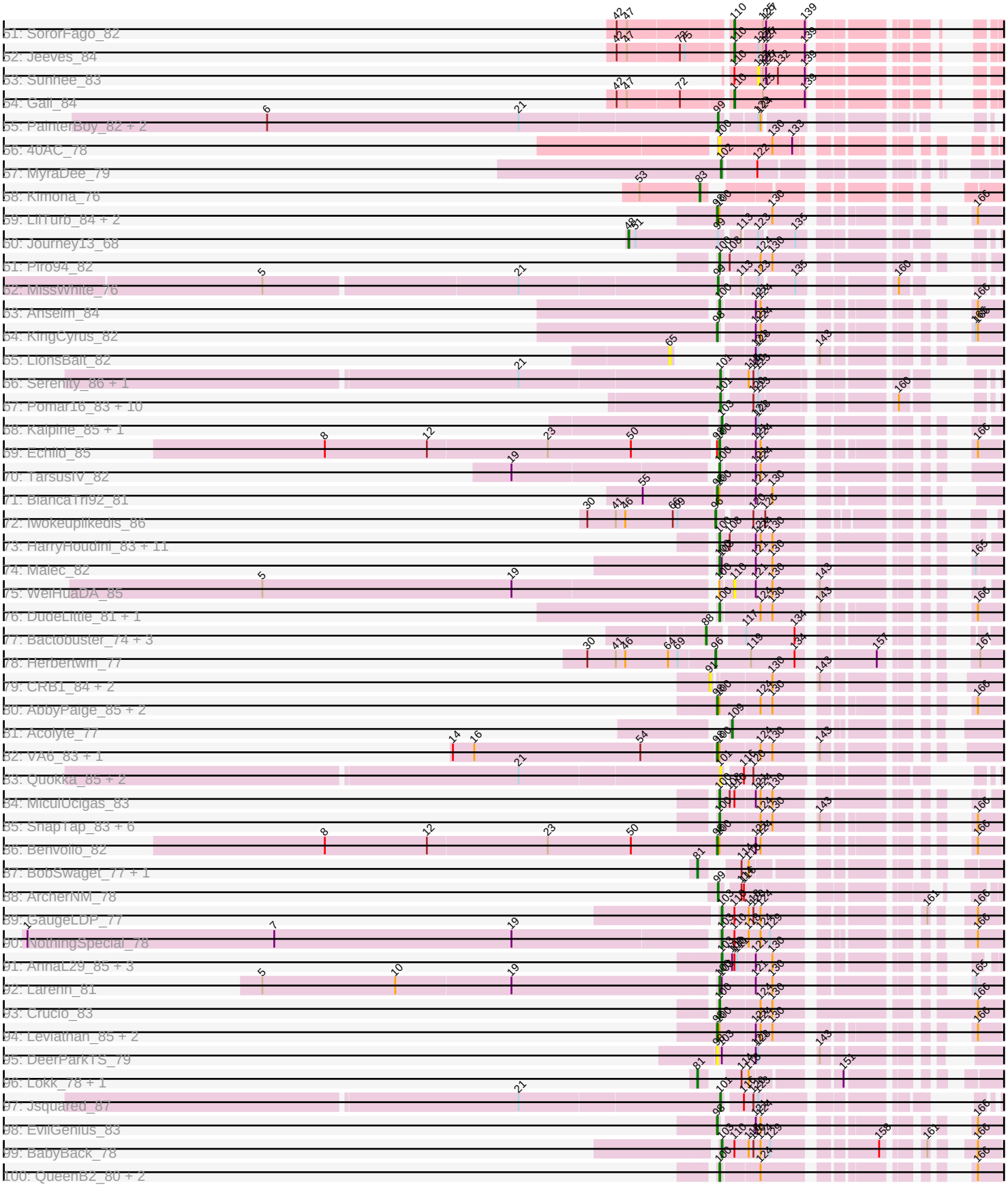
Pham 290668


1: McGuire_76 + 97
2: Rhynn_72 + 1
3: JackSparrow_77
4: Marsha_76 + 12
5: Rutherford_78
6: BPBlebs31_81 + 68
7: Ashballer_78
8: JC27_77 + 2
9: Hermia_71 + 8
10: Killigrew_73
11: GrecoEtereo_80 + 3
12: Mkhusell_73
13: Kanely_78 + 2
14: Sanya_71
15: Ruotula_80
16: Nerujay_80
17: IgnatiusPatJac_76 + 1
18: Nhonho_72 + 2
19: Applejack_75 + 3
20: KBG_74 + 1
21: Pinto_76
22: ChristmasRams_67 + 3
23: Turj99_72
24: Big3_77 + 1
25: TwoPeat_76
26: Trouble_76
27: Kykar_76
28: Smeagol_79
29: Marge_73 + 1
30: Homines_64
31: McSinger_75
32: Wheeler_81
33: Abrogate_730
34: Eaglepride_86
35: Goose_84 + 2
36: KittenMittens_78 + 3
37: WalterMcMickey_83 + 2
38: RhynO_71 + 3
39: Poompha_80
40: Kristoff_81
41: Rebeuca_84
42: DontArgue_78
43: Lucivia_85 + 12
44: Et2Brutus_83 + 14
45: Pharaoh_77
46: DarthPhader_78
47: Steamy_75
48: Refuge_80
49: Zimmer_79
50: Luchador_82

Pham 290668


51: SororFago_82
52: Jeeves_84
53: Sunhee_83
54: Gail_84
55: PainterBoy_82 + 2
56: 40AC_78
57: MyraDee_79
58: Kimona_76
59: LilTuro_84 + 2
60: Journey13_68
61: Piro94_82
62: MissWhite_76
63: Anselm_84
64: KingCyrus_82
65: LionsBait_82
66: Serenity_86 + 1
67: Pomar16_83 + 10
68: Kalpine_85 + 1
69: Echild_85
70: TarsusIV_82
71: BiancaTM92_81
72: Iwokeuplikedis_86
73: HarryHoudini_83 + 11
74: Malec_82
75: WeiHuaDA_85
76: DudeLittle_81 + 1
77: Bactobuster_74 + 3
78: Herbertwm_77
79: CRB1_84 + 2
80: AbbyPaige_85 + 2
81: Acolyte_77
82: VA6_83 + 1
83: Quokka_85 + 2
84: MiculOcigas_83
85: SnapTap_83 + 6
86: Benvolio_82
87: BobSwaget_77 + 1
88: ArcherNM_78
89: GaugeLDP_77
90: NothingSpecial_78
91: AnnaL29_85 + 3
92: Laremi_81
93: Crucio_83
94: Leviathan_85 + 2
95: DeerParkTS_79
96: Lokk_78 + 1
97: Jsquared_87
98: EvilGenius_83
99: BabyBack_78
100: QueenB2_80 + 2

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101: NicoleTera_81
102: IronMan_79
103: Koduck_83 + 1
104: BengiVuitton_85
105: HippoHollow_80
106: ForesterFrank_78
107: JoshKayV_85
108: Dalmatian_83
109: Trooper_82
110: XianYue_82
111: Tristan_78
112: Deloris_85
113: EZMoney23_79
114: LadyBird_87
115: Colin_82
116: Pukovnik_77
117: ChipMunk_84
118: Prudy_78
119: Chargerpower_83
120: JHC117_75 + 66
121: Pistachio_79 + 9
122: JF4_75 + 2
123: Microwolf_76 + 13
124: Texage_77 + 2
125: Heathen_78 + 10
126: Todacoro_79 + 5
127: Margo_79 + 1
128: JeppNRM_80
129: QuinnKiro_78 + 2
130: Isca_75 + 1
131: BreSam8_80 + 1
132: Sabertooth_75 + 109
133: Noelle_75
134: Happiness_74 + 4
135: Cintron_76
136: Achebe_73 + 3
137: AvatarAnPeg_74
138: Stasia_73
139: Morpher26_74 + 1
140: Wile_73 + 1
141: Stink_74
142: AbbysRanger_74 + 5
143: Cindaradix_70
144: Camperdownii_73 + 1
145: Mundrea_74
146: Druantia_74 + 3
147: Miramae_74
148: Eapen_75
149: LeoAvram_74
150: Tarynearar_69

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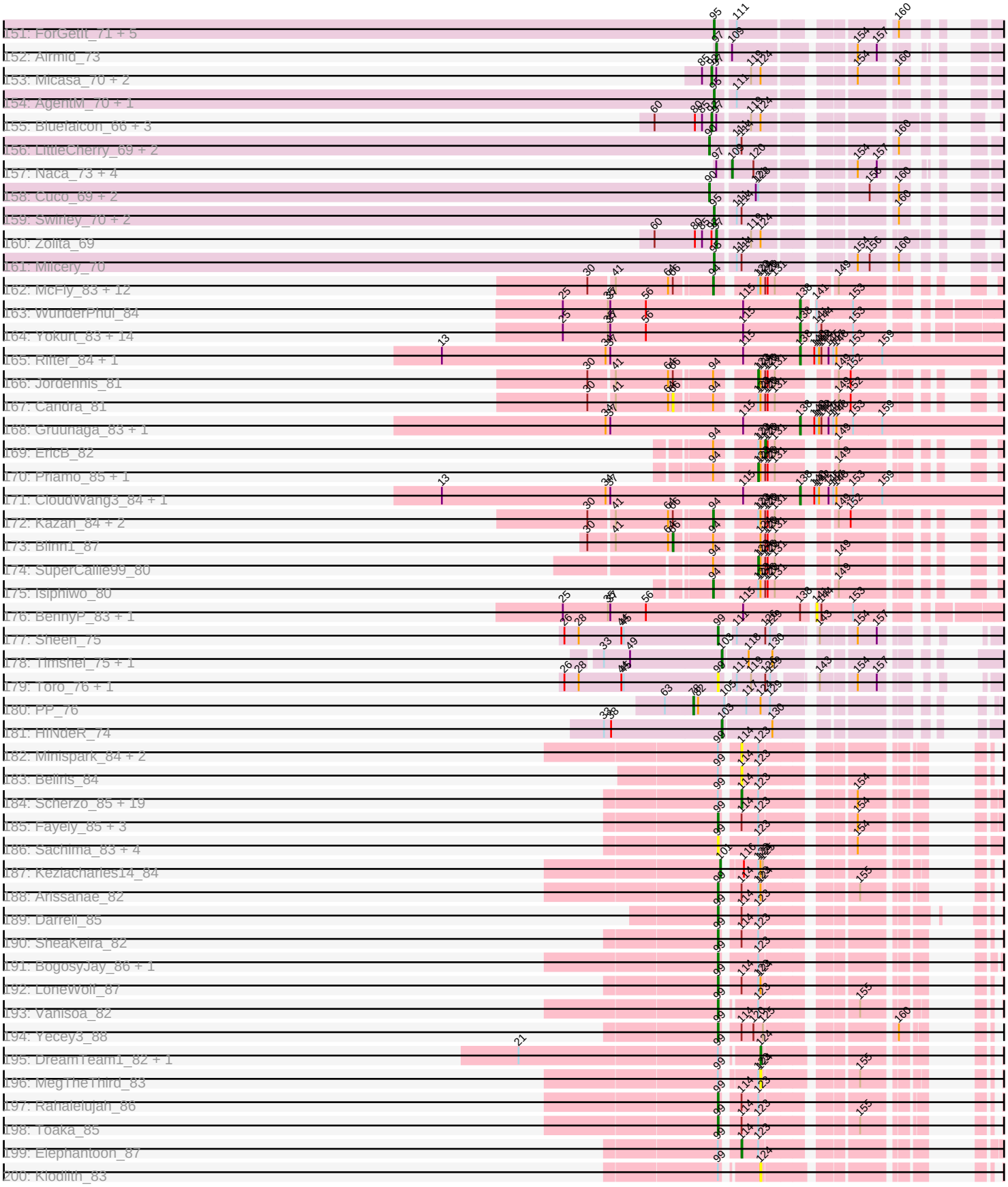
151: ForGetIt_71 + 5
152: Airmid_73
153: Micasa_70 + 2
154: AgentM_70 + 1
155: Bluefalcon_66 + 3
156: LittleCherry_69 + 2
157: Naca_73 + 4
158: Cuco_69 + 2
159: Swiney_70 + 2
160: Zolita_69
161: Millcery_70
162: McFly_83 + 12
163: WunderPhul_84
164: Yokuri_83 + 14
165: Rifter_84 + 1
166: Jordennis_81
167: Candra_81
168: Gruunaga_83 + 1
169: EricB_82
170: Priamo_85 + 1
171: CloudWang3_84 + 1
172: Kazan_84 + 2
173: Binn1_87
174: SuperCallie99_80
175: Isiphiwo_80
176: BennyP_83 + 1
177: Sheen_75
178: Timshel_75 + 1
179: Toro_76 + 1
180: PP_76
181: HiNdeR_74
182: Minispark_84 + 2
183: Bellis_84
184: Scherzo_85 + 19
185: Fayely_85 + 3
186: Sachima_83 + 4
187: Kezlachanes14_84
188: Arissanae_82
189: Darrell_85
190: SheaKeira_82
191: BogosyJay_86 + 1
192: LoneWolf_87
193: Vanisoa_82
194: Yecey3_88
195: DreamTeam1_82 + 1
196: MegTheThird_83
197: Rahalelujah_86
198: Toaka_85
199: Elephantoon_87
200: Klodilth_83

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 290668 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290668 has 820 members, 95 are drafts.

Phages represented in each track:
• Track 1 : McGuire_76, Alsfro_83, Adahisdi_72, Rufus_79, PinkPlastic_72, Dreamboat_76, Iqorha_68, Whitspit_69, Arcanine_80, Snazzy_77, Ichabod_79, StrongArm_72, Crispicous1_71, GageAP_79, Dynamix_76, Bexan_71, Bob3_77, Teodoridan_74, Fushigi_70, DD5_74, Rubeus_77, Traft412_76, Ciao_73, Gyzlar_69, Monet_80, Maroc7_78, Slagathor_77, Peterson_75, Anglerfish_78, Ajay_73, BillKnuckles_70, Marcell_69, Fascinus_72, BigMau_79, Hami1_69, Bigfoot_71, SarFire_80, Briton15_79, Marco3_79, Paraselene_74, Jerm2_78, Jasper_75, Inyanga_68, Rohr_79, TheloniousMonk_78, Seabiscuit_77, BeesKnees_77, Bigchungi_77, Oogway_75, Phlippers_74, Fenn_79, Treddle_78, GMonster_74, Francis47_78, Agaliana_74, Marchy_68, Papez_78, Bones_72, Michley_77, CactusRose_79, Norz_72, Pippin_77, PherrisBueller_75, DreamCatcher_80, ProMouse_76, Gompeii16_77, PowerRanger_72, ILeeKay_74, Bruns_79, ShortQueendom_69, PacerPaul_81, Petp2012_77, Wilkins_73, Topgun_72, Alvin_74, Lamina13_80, Seanderson_76, Zephyr_78, Solon_72, Beatrix_73, Bircsak_77, Thor_80, Rajelicia_78, HermioneGrange_80, Pepe_70, Blue_73, HanShotFirst_74, Kugel_78, Edtherson_75, Squee_77, Violet_71, SkiPole_85, Chanagan_73, Switzer_75, Naira_78, Scowl_77, Sagefire_73, Carlyle_77
• Track 2 : Rhynn_72, CartmannCramer_72
• Track 3 : JackSparrow_77
• Track 4 : Marsha_76, Sunshine924_77, Petruchio_76, Tripl3t_79, Blackflame_72, BK1_70, Bxb1_70, KSSJEB_73, Magnito_75, A6_70, Raid_74, LilBib_73, Graduation_79
• Track 5 : Rutherferd_78
• Track 6 : BPBiebs31_81, NEHalo_72, Arlo_76, Magnar_72, Mryolo_71, Moose_78, Pelly_79, Perseus_76, AFIS_73, Museum_76, PhrostyMug_78, MaryBeth_74, Bethlehem_79, EnzoK_77, Forsytheast_78, Paphu_71, BluSpix_74, JuliaChild_77, Lockley_73, Zeeculate_72, KyMonks1A_82, BarrowTuph_79, Ohno789_79, Sibs6_76, Lesedi_73, HarryOW_77, Swole_77, STLscum_82, Fajezeel_79, MPlant7149_76, Eyeball_75, SpikeBT_73, Molly_76, Greg_79, Aeneas_81, PhineBark_72, Espresso_70, Tote_72, Dulcie_77, Acme_80, Sumter_73, PSullivan_74, Abbyshoes_76, Dussy_75, Levia_70, Parliament_77, Gandalf20_75, Sorpresa_75, Lopton_75, Pita2_77, MetalQZJ_73, Makemake_79, Pari_81, PattyP_76, Kenmech_78, Niza_76, U2_70, Burton_77, Puppet_71, DrFeelGood_72, Mule_75, PascalRango_74, SwissCheese_80, Corvo_78, Tasp14_75, Smairt_80, Gwendoluna_80, Watermelon_79, Sandaddy_74
• Track 7 : Ashballer_78
• Track 8 : JC27_77, Jorgensen_83, Zeuska_78

• Track 9 : Hermia_71, Aldrich_68, GroundGoblin_69, KikiBouba_70, QTRlifeCrisis_75, Buttons_73, DirtDevil_70, Noxious_69, CatBus_68
• Track 10 : Killigrew_73
• Track 11 : GrecoEtereo_80, Manatee_74, Euphoria_77, BaconJack_78
• Track 12 : Mkhuseli_73
• Track 13 : Kanely_78, Doom_69, Altman_79
• Track 14 : Sanya_71
• Track 15 : Ruotula_80
• Track 16 : Nerujay_80
• Track 17 : IgnatiusPatJac_76, StewieG_72
• Track 18 : Nhonho_72, Blesser_70, Ringer_76
• Track 19 : Applejack_75, Barriga_83, Dexes_77, Hope4ever_77
• Track 20 : KBG_74, BigPaolini_74
• Track 21 : Pinto_76
• Track 22 : ChristmasHams_67, Licorice_77, Atkinbua_82, ConceptII_81
• Track 23 : Turj99_72
• Track 24 : Big3_77, MrGordo_77
• Track 25 : TwoPeat_76
• Track 26 : Trouble_76
• Track 27 : Kykar_76
• Track 28 : Smeagol_79
• Track 29 : Marge_73, Target_76
• Track 30 : Homines_64
• Track 31 : McSinger_75
• Track 32 : Wheeler_81
• Track 33 : Abrogate_730
• Track 34 : Eaglepride_86
• Track 35 : Goose_84, Chupacabra_80, OKCentral2016_82
• Track 36 : KittenMittens_78, Severus_81, PeaceMeal1_80, Drake94_80
• Track 37 : WalterMcMickey_83, Topanga_73, Twister_84
• Track 38 : RhynO_71, DustyMartin_86, Shapes_86, Rowdy_86
• Track 39 : Poompha_80
• Track 40 : Kristoff_81
• Track 41 : Rebeuca_84
• Track 42 : DontArgue_78
• Track 43 : Lucivia_85, Timothy_84, Aneem_85, Joselito_83, Mabel_84, Petersenfast_78, Bowtie_81, Bud_79, Munch_84, MaCh_84, Orange_84, TinyTimmy_82, Flaverint_85
• Track 44 : Et2Brutus_83, Gilberta_81, Sham4_80, Kimba_81, Fibonacci_83, Jabith_83, Bachome_82, Insomnia_83, Hutc2_80, Saskia_81, Wolpertinger_83, Mulciber_82, Salz_79, Ebony_84, Snape_84
• Track 45 : Pharaoh_77
• Track 46 : DarthPhader_78
• Track 47 : Steamy_75
• Track 48 : Refuge_80
• Track 49 : Zimmer_79
• Track 50 : Luchador_82
• Track 51 : SororFago_82
• Track 52 : Jeeves_84
• Track 53 : Sunhee_83
• Track 54 : Gail_84
• Track 55 : PainterBoy_82, Lucyedi_82, EagleEye_83
• Track 56 : 40AC_78

• Track 57 : MyraDee_79
• Track 58 : Kimona_76
• Track 59 : LilTurb_84, Jerm_85, Agape74_85
• Track 60 : Journey13_68
• Track 61 : Piro94_82
• Track 62 : MissWhite_76
• Track 63 : Anselm_84
• Track 64 : KingCyrus_82
• Track 65 : LionsBait_82
• Track 66 : Serenity_86, TipsytheTRex_82
• Track 67 : Pomar16_83, AN9_82, VC3_81, ANI8_82, StarStuff_83, Tomathan_83, Duplo_84, Kerberos_83, DBQu4n_83, Travvers_83, C3_75
• Track 68 : Kalpine_85, Trixie_83
• Track 69 : Echild_85
• Track 70 : TarsusIV_82
• Track 71 : BiancaTri92_81
• Track 72 : Iwokeuplikedis_86
• Track 73 : HarryHoudini_83, Updawg_84, Sknot_83, Drake55_84, WideWale_84, Baehexic_82, Terrific_84, Centaur_83, Gratitude_81, Flare16_83, Equemioh13_83, NaSiaTalie_84
• Track 74 : Malec_82
• Track 75 : WeiHuaDA_85
• Track 76 : DudeLittle_81, Retro23_83
• Track 77 : Bactobuster_74, Landor_80, Phaded_76, Jaan_80
• Track 78 : Herbertwm_77
• Track 79 : CRB1_84, First_0084, 20ES_85
• Track 80 : AbbyPaige_85, Dignity_85, Whabigail7_83
• Track 81 : Acolyte_77
• Track 82 : VA6_83, AN3_83
• Track 83 : Quokka_85, MajorMajor_80, Bradman_86
• Track 84 : MiculUcigas_83
• Track 85 : SnapTap_83, FiringLine_83, QueenBeesly_83, Georgie2_85, SweetiePie_83, SemperFi_83, Power_83
• Track 86 : Benvolio_82
• Track 87 : BobSwaget_77, Miko_78
• Track 88 : ArcherNM_78
• Track 89 : GaugeLDP_77
• Track 90 : NothingSpecial_78
• Track 91 : AnnaL29_85, Changeling_82, Loser_86, RedRock_83
• Track 92 : Larenn_81
• Track 93 : Crucio_83
• Track 94 : Leviathan_85, Turbido_84, Smeagan_86
• Track 95 : DeerParkTS_79
• Track 96 : Lokk_78, Rachaly_80
• Track 97 : Jsquared_87
• Track 98 : EvilGenius_83
• Track 99 : BabyBack_78
• Track 100 : QueenB2_80, Heffalump_80, Fameo_81
• Track 101 : NicoleTera_81
• Track 102 : IronMan_79
• Track 103 : Koduck_83, L5_76
• Track 104 : BengiVuitton_85
• Track 105 : HippoHollow_80

• Track 106 : ForesterFrank_78
• Track 107 : JoshKayV_85
• Track 108 : Dalmatian_83
• Track 109 : Trooper_82
• Track 110 : XianYue_82
• Track 111 : Tristan_78
• Track 112 : Deloris_85
• Track 113 : EZMoney23_79
• Track 114 : LadyBird_87
• Track 115 : Colin_82
• Track 116 : Pukovnik_77
• Track 117 : ChipMunk_84
• Track 118 : Prudy_78
• Track 119 : Chargerpower_83
• Track 120 : JHC117_75, LugYA_83, LBerry_81, Kalnoky_80, Gemma_77, Daishi_79, SoilDragon_80, Gwennie_75, Penny1_80, Grif_78, EpicPhail_81, Dieselweasel_81, Taurus_81, MarQuardt_80, Colbster_76, Aglet_81, GingkoMaracino_80, Grum1_80, PurpleHaze_79, Pawn_78, Groupthink_80, Soshari_82, GtownJaz_80, ClownCar_77, Marius_80, Montavir_75, Bigflo_77, Tiffany_79, MadMarie_78, Wooldri_82, Rummer_79, Jobu08_76, JenCasNa_81, Manu_79, Louie6_79, Snickers_80, Cullens_81, Hercules11_80, Sabinator_78, Fernando_81, Bxz2_75, LarryKay_80, TinyPebbles_79, PotatoSplit_81, Phoxy_80, Beauxregard13_79, Anubis_84, P28Green_80, BuzzBuzz_74, Heliosoles_77, SoYo_77, HaveUMetTed_80, Ollie_80, Methuselah_73, MoneyMay_80, HashRod_81, PhishRPhriends_76, Marie_78, OlanP_78, Spike509_80, Vix_76, Croquant_77, Reba_75, KADY_77, Farber_80, Calvinny_77, Phoebe_81
• Track 121 : Pistachio_79, Giroux_82, Clammy_79, TNguyen7_80, SaturnRing_79, BlueBird_81, Bugatti_79, Idleandcovert_79, Phantastic_80, Puppy_80
• Track 122 : JF4_75, JF2_75, B1_69
• Track 123 : Microwolf_76, Pembroke_80, AugsMagnumOpus_83, Stagni_77, Mainiac_79, Grub_78, Lowa_77, Malinsilva_83, Sabia_78, Lilith_78, PGHhamlin_82, MuchMore_83, StepMih_80, DaHudson_79
• Track 124 : Texage_77, EtoileNova_77, Noella_80
• Track 125 : Heathen_78, Zarafa_76, DropBear_77, MA5_77, Fred313_76, Marchesa_78, Kachowdy_76, BabyRay_78, HelDan_79, Roimos_77, Scout_78
• Track 126 : Todacoro_79, Pocahontas_78, Popcicle_79, Panamaxus_76, ResDef_77, Hookmount_79
• Track 127 : Margo_79, Norbert_75
• Track 128 : JeppNRM_80
• Track 129 : QuinnKiro_78, Veracruz_76, Lambert1_79
• Track 130 : Isca_75, MK4_72
• Track 131 : BreSam8_80, Watson_79
• Track 132 : Sabertooth_75, OKaNui_74, Phacado_75, Morrow_77, JoongJeon_74, Mazhar510_75, Burger_73, PeterPeter_75, Iracema64_75, Houdini22_74, Millski_74, Avle17_75, Holli_74, Bartimeaus_75, Ruin_75, ICleared_74, Pumbaa_75, YoSam321_75, Albee_75, Bruiser_74, Relief_74, Wander_75, Maxo_77, Nemo27_74, RockieBear_72, Bombshell_75, Eris_74, Abdiel_74, Flux_76, TiroTheta9_74, Kingmustik0402_75, Jaykayelowell_72, KekoraPapaka_72, Romney_74, Sparxx_76, Eurydice_76, Broseidon_75, Cocoaberry_75, SheldonCooper_75, Alberto7_76, Kyee_75, CentreCat_75, Scamp_75, Baby16_75, Tinybot_74, LappelDuVide_75, LittleB_75, Ulysses_74, Chaph_75, Phelipe_76, Kratark_74, DirtyDunning_74, Caelakin_73, Skipitt_74, Kampy_74, Iceman_73, BubbleTrouble_74, Mayonnaise_72, Spino_74, Roosevelt_73, Nyxis_74,

JetBlade_76, TroyPia_76, Florean_75, SenorClean_76, Taquarus_74, Dhanush_75, Pipcraft_71, Thanksgivukkah_74, Commander_73, Citius_75, Rosa24_71, LochMonster_76, BellusTerra_76, Sultana_75, Eros_75, Lemur_75, MeeZee_74, Maverick_74, Koan_72, Melvin_77, TinaFeyge_73, Peaches_73, Shaka_73, Deano_72, NorthStar_72, Ohfah_76, KFPoly_74, Blackmoor_74, Palestino_74, Connomayer_75, HamSlice_71, BangNhom_72, Phighter1804_75, Wilbur_75, Arturo_72, TygerBlood_75, LittleGuy_75, Koreni_74, SteMason_71, Gadost_75, Clarenza_74, Lunsford_75, NotAPhaseMom_74, Phontbonne_75, Nebs_76, Medusa_74, Annyong_74, Funston_74, Cerulean_77
• Track 133 : Noelle_75
• Track 134 : Happiness_74, ChampagnePapi_78, Shygu2_74, Obama12_76, LHTSCC_77
• Track 135 : Cintron_76
• Track 136 : Achebe_73, Katalie136_74, Wizard007_74, Cici_74
• Track 137 : AvatarAhPeg_74
• Track 138 : Stasia_73
• Track 139 : Morpher26_74, Bumblebee11_73
• Track 140 : Wile_73, Badger_73
• Track 141 : Stink_74
• Track 142 : AbbysRanger_74, Perplexer_74, Backyardigan_72, Xena_73, Datway_74, PetiteSangsue_74
• Track 143 : Cindaradix_70
• Track 144 : Camperdownii_73, Kremtemulon_74
• Track 145 : Mundrea_74
• Track 146 : Druantia_74, Eagle_74, Lorenzo_75, Polymorphads_76
• Track 147 : Miramae_74
• Track 148 : Eapen_75
• Track 149 : LeoAvram_74
• Track 150 : Tarynearal_69
• Track 151 : ForGetIt_71, PickleBack_71, Lev2_71, Conspiracy_71, Aragog_70, Discoknowium_68
• Track 152 : Airmid_73
• Track 153 : Micasa_70, Theia_69, Dublin_70
• Track 154 : AgentM_70, Phlorence_69
• Track 155 : Bluefalcon_66, Ghoulboy_70, Archetta_68, SydNat_70
• Track 156 : LittleCherry_69, Bonamassa_70, HuhtaEnerson15_68
• Track 157 : Naca_73, ElTiger69_76, PetterN_78, Chadwick_74, Benedict_74
• Track 158 : Cuco_69, Coog_67, Midas2_67
• Track 159 : Swirley_70, Twigg_67, Prinashe11_68
• Track 160 : Zolita_69
• Track 161 : Milcery_70
• Track 162 : McFly_83, DaVinci_81, Neeharika16_82, Hoot_78, Cookiedough_83, SuperAwesome_83, GreedyLawyer_77, Dorothea_83, Kipper29_83, Pmask_82, BABullseye_76, Newrala_82, Chartreuse_82
• Track 163 : WunderPhul_84
• Track 164 : Yokurt_83, ToneTone_81, Wiks_83, Artemis2UCLA_83, Temprado_85, Helmet_86, Zulu_85, Tucker_84, Lilbunny_83, Blue7_85, Roksolana_84, Zaka_84, BlessJoy_84, Indra_87, Koko_85
• Track 165 : Rifter_84, Hammer_84
• Track 166 : Jordennis_81
• Track 167 : Candra_81
• Track 168 : Gruunaga_83, Gladiator_80
• Track 169 : EricB_82

• Track 170 : Priamo_85, DelvinSonDorr_79
• Track 171 : CloudWang3_84, Hexamo_83
• Track 172 : Kazan_84, VohminGhazi_83, SmellyB_83
• Track 173 : Blinn1_87
• Track 174 : SuperCallie99_80
• Track 175 : Isiphiwo_80
• Track 176 : BennyP_83, Garak_85
• Track 177 : Sheen_75
• Track 178 : Timshel_75, DroogsArmy_74
• Track 179 : Toro_76, FlyCatcher_78
• Track 180 : PP_76
• Track 181 : HINdeR_74
• Track 182 : Minispark_84, WorldCup_85, CogOmlette_84
• Track 183 : Bellris_84
• Track 184 : Scherzo_85, Qobbit_85, Pioneer_87, Holex_86, Phaeder_87, Aliter_80, Ugenie5_74, Lilleskat_84, Beemo_87, ExplosioNervosa_85, Phonnegut_87, Eidsmoe_85, HortumSL17_88, Ayanochan_85, Onglai_85, Conquerage_85, Alma_85, Catalina_89, Priya_85, Myxus_87
• Track 185 : Fayely_85, Spouty_85, Tubs_87, EmyBug_84
• Track 186 : Sachima_83, RyeScarlet_88, Hanray_85, EdogawaKiddo_86, Jiawan_85
• Track 187 : Keziacharles14_84
• Track 188 : Arissanae_82
• Track 189 : Darrell_85
• Track 190 : SheaKeira_82
• Track 191 : BogosyJay_86, Maminiaina_86
• Track 192 : LoneWolf_87
• Track 193 : Vanisoa_82
• Track 194 : Yecey3_88
• Track 195 : DreamTeam1_82, Charm_82
• Track 196 : MegTheThird_83
• Track 197 : Rahalelujah_86
• Track 198 : Toaka_85
• Track 199 : Elephantoon_87
• Track 200 : Klodlith_83

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

The start number called the most often in the published annotations is 83, it was called in 208 of the 725 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A6_70, AFIS_73, Abbyshoes_76, Abrogate_730, Acme_80, Adahisdi_72, Aeneas_81, Agaliana_74, Ajay_73, Aldrich_68, Alsfro_83, Altman_79, Alvin_74, Anglerfish_78, Applejack_75, Arcanine_80, Arlo_76, Ashballer_78, Atkinbua_82, BK1_70, BPBiebs31_81, BaconJack_78, Barriga_83, BarrowTuph_79, Beatrix_73, BeesKnees_77, Bethlehem_79, Bexan_71, Big3_77, BigMau_79, Bigchungi_77, Bigfoot_71, BillKnuckles_70, Bircsak_77, Blackflame_72, Blesser_70, BluSpix_74, Blue_73, Bob3_77, Bones_72, Briton15_79, Bruns_79, Burton_77, Buttons_73, Bxb1_70, CactusRose_79, Carlyle_77, CartmannCramer_72, CatBus_68,

Chanagan_73, ChristmasHams_67, Ciao_73, ConceptII_81, Corvo_78, Crispicous1_71, DD5_74, Dexes_77, DirtDevil_70, Doom_69, DrFeelGood_72, DreamCatcher_80, Dreamboat_76, Dulcie_77, Dussy_75, Dynamix_76, Edtherson_75, EnzoK_77, Espresso_70, Euphoria_77, Eyeball_75, Fajezeel_79, Fascinus_72, Fenn_79, Forsytheast_78, Francis47_78, Fushigi_70, GMonster_74, GageAP_79, Gandalf20_75, Gompeii16_77, Graduation_79, GrecoEtereo_80, Greg_79, GroundGoblin_69, Gwendoluna_80, Gyzlar_69, Hami1_69, HanShotFirst_74, HarryOW_77, Hermia_71, HermioneGrange_80, Homines_64, Hope4ever_77, ILeeKay_74, Ichabod_79, Inyanga_68, Iqorha_68, JackSparrow_77, Jasper_75, Jerm2_78, JuliaChild_77, KSSJEB_73, Kanely_78, Kenmech_78, KikiBouba_70, Killigrew_73, Kimona_76, Kugel_78, KyMonks1A_82, Kykar_76, Lamina13_80, Lesedi_73, Levia_70, Licorice_77, LilBib_73, Lockley_73, Lopton_75, MPlant7149_76, Magnar_72, Magnito_75, Makemake_79, Manatee_74, Marcell_69, Marchy_68, Marco3_79, Marge_73, Maroc7_78, Marsha_76, MaryBeth_74, McGuire_76, McSinger_75, MetalQZJ_73, Michley_77, Mkhuseli_73, Molly_76, Monet_80, Moose_78, MrGordo_77, Mryolo_71, Mule_75, Museum_76, NEHalo_72, Naira_78, Nerujay_80, Nhonho_72, Niza_76, Norz_72, Noxious_69, Ohno789_79, Oogway_75, PSullivan_74, PacerPaul_81, Papez_78, Paphu_71, Paraselene_74, Pari_81, Parliament_77, PascalRango_74, PattyP_76, Pelly_79, Pepe_70, Perseus_76, Peterson_75, Petp2012_77, Petruchio_76, PherrisBueller_75, PhineBark_72, Phlippers_74, PhrostyMug_78, PinkPlastic_72, Pinto_76, Pippin_77, Pita2_77, PowerRanger_72, ProMouse_76, Puppet_71, QTRlifeCrisis_75, Raid_74, Rajelicia_78, Rhynn_72, Ringer_76, Rohr_79, Rubeus_77, Rufus_79, Ruotula_80, Rutherferd_78, STLscum_82, Sagefire_73, Sandaddy_74, Sanya_71, SarFire_80, Scowl_77, Seabiscuit_77, Seanderson_76, ShortQueendom_69, Sibs6_76, SkiPole_85, Slagathor_77, Smairt_80, Smeagol_79, Snazzy_77, Solon_72, Sorpresa_75, SpikeBT_73, Squee_77, StrongArm_72, Sumter_73, Sunshine924_77, SwissCheese_80, Switzer_75, Swole_77, Target_76, Tasp14_75, Teodoridan_74, ThelonіousMonk_78, Thor_80, Topgun_72, Tote_72, Traft412_76, Treddle_78, Tripl3t_79, Trouble_76, Turj99_72, TwoPeat_76, U2_70, Violet_71, Watermelon_79, Wheeler_81, Whitspit_69, Wilkins_73, Zeeculate_72, Zephyr_78,

Genes that have the "Most Annotated" start but do not call it:
• BigPaolini_74, IgnatiusPatJac_76, KBG_74, StewieG_72,

Genes that do not have the "Most Annotated" start:
• 20ES_85, 40AC_78, AN3_83, AN9_82, ANI8_82, AbbyPaige_85, AbbysRanger_74, Abdiel_74, Achebe_73, Acolyte_77, Agape74_85, AgentM_70, Aglet_81, Airmid_73, Albee_75, Alberto7_76, Aliter_80, Alma_85, Aneem_85, AnnaL29_85, Annyong_74, Anselm_84, Anubis_84, Aragog_70, ArcherNM_78, Archetta_68, Arissanae_82, Artemis2UCLA_83, Arturo_72, AugsMagnumOpus_83, AvatarAhPeg_74, Avle17_75, Ayanochan_85, B1_69, BABullseye_76, Baby16_75, BabyBack_78, BabyRay_78, Bachome_82, Backyardigan_72, Bactobuster_74, Badger_73, Baehexic_82, BangNhom_72, Bartimeaus_75, Beauxregard13_79, Beemo_87, Bellris_84, BellusTerra_76, Benedict_74, BengiVuitton_85, BennyP_83, Benvolio_82, BiancaTri92_81, Bigflo_77, Blackmoor_74, BlessJoy_84, Blinn1_87, Blue7_85, BlueBird_81, Bluefalcon_66, BobSwaget_77, BogosyJay_86, Bombshell_75, Bonamassa_70, Bowtie_81, Bradman_86, BreSam8_80, Broseidon_75, Bruiser_74, BubbleTrouble_74, Bud_79, Bugatti_79, Bumblebee11_73, Burger_73, BuzzBuzz_74, Bxz2_75, C3_75, CRB1_84, Caelakin_73, Calvinny_77, Camperdownii_73, Candra_81, Catalina_89, Centaur_83, CentreCat_75, Cerulean_77, Chadwick_74, ChampagnePapi_78, Changeling_82, Chaph_75, Chargerpower_83, Charm_82, Chartreuse_82, ChipMunk_84, Chupacabra_80,

Cici_74, Cindaradix_70, Cintron_76, Citius_75, Clammy_79, Clarenza_74, CloudWang3_84, ClownCar_77, Cocoaberry_75, CogOmlette_84, Colbster_76, Colin_82, Commander_73, Connomayer_75, Conquerage_85, Conspiracy_71, Coog_67, Cookiedough_83, Croquant_77, Crucio_83, Cuco_69, Cullens_81, DBQu4n_83, DaHudson_79, DaVinci_81, Daishi_79, Dalmatian_83, Darrell_85, DarthPhader_78, Datway_74, Deano_72, DeerParkTS_79, Deloris_85, DelvinSonDorr_79, Dhanush_75, Dieselweasel_81, Dignity_85, DirtyDunning_74, Discoknowium_68, DontArgue_78, Dorothea_83, Drake55_84, Drake94_80, DreamTeam1_82, DroogsArmy_74, DropBear_77, Druantia_74, Dublin_70, DudeLittle_81, Duplo_84, DustyMartin_86, EZMoney23_79, EagleEye_83, Eagle_74, Eaglepride_86, Eapen_75, Ebony_84, Echild_85, EdogawaKiddo_86, Eidsmoe_85, ElTiger69_76, Elephantoon_87, EmyBug_84, EpicPhail_81, Equemioh13_83, EricB_82, Eris_74, Eros_75, Et2Brutus_83, EtoileNova_77, Eurydice_76, EvilGenius_83, ExplosioNervosa_85, Fameo_81, Farber_80, Fayely_85, Fernando_81, Fibonacci_83, FiringLine_83, First_0084, Flare16_83, Flaverint_85, Florean_75, Flux_76, FlyCatcher_78, ForGetIt_71, ForesterFrank_78, Fred313_76, Funston_74, Gadost_75, Gail_84, Garak_85, GaugeLDP_77, Gemma_77, Georgie2_85, Ghoulboy_70, Gilberta_81, GingkoMaracino_80, Giroux_82, Gladiator_80, Goose_84, Gratitude_81, GreedyLawyer_77, Grif_78, Groupthink_80, Grub_78, Grum1_80, Gruunaga_83, GtownJaz_80, Gwennie_75, HINdeR_74, HamSlice_71, Hammer_84, Hanray_85, Happiness_74, HarryHoudini_83, HashRod_81, HaveUMetTed_80, Heathen_78, Heffalump_80, HelDan_79, Heliosoles_77, Helmet_86, Herbertwm_77, Hercules11_80, Hexamo_83, HippoHollow_80, Holex_86, Holli_74, Hookmount_79, Hoot_78, HortumSL17_88, Houdini22_74, HuhtaEnerson15_68, Hutc2_80, ICleared_74, Iceman_73, Idleandcovert_79, Indra_87, Insomnia_83, Iracema64_75, IronMan_79, Isca_75, Isiphiwo_80, Iwokeuplikedis_86, JC27_77, JF2_75, JF4_75, JHC117_75, Jaan_80, Jabith_83, Jaykayelowell_72, Jeeves_84, JenCasNa_81, JeppNRM_80, Jerm_85, JetBlade_76, Jiawan_85, Jobu08_76, JoongJeon_74, Jordennis_81, Jorgensen_83, Joselito_83, JoshKayV_85, Journey13_68, Jsquared_87, KADY_77, KFPoly_74, Kachowdy_76, Kalnoky_80, Kalpine_85, Kampy_74, Katalie136_74, Kazan_84, KekoraPapaka_72, Kerberos_83, Keziacharles14_84, Kimba_81, KingCyrus_82, Kingmustik0402_75, Kipper29_83, KittenMittens_78, Klodlith_83, Koan_72, Koduck_83, Koko_85, Koreni_74, Kratark_74, Kremtemulon_74, Kristoff_81, Kyee_75, L5_76, LBerry_81, LHTSCC_77, LadyBird_87, Lambert1_79, Landor_80, LappelDuVide_75, Larenn_81, LarryKay_80, Lemur_75, LeoAvram_74, Lev2_71, Leviathan_85, LilTurb_84, Lilbunny_83, Lilith_78, Lilleskat_84, LionsBait_82, LittleB_75, LittleCherry_69, LittleGuy_75, LochMonster_76, Lokk_78, LoneWolf_87, Lorenzo_75, Loser_86, Louie6_79, Lowa_77, Luchador_82, Lucivia_85, Lucyedi_82, LugYA_83, Lunsford_75, MA5_77, MK4_72, MaCh_84, Mabel_84, MadMarie_78, Mainiac_79, MajorMajor_80, Malec_82, Malinsilva_83, Maminiaina_86, Manu_79, MarQuardt_80, Marchesa_78, Margo_79, Marie_78, Marius_80, Maverick_74, Maxo_77, Mayonnaise_72, Mazhar510_75, McFly_83, Medusa_74, MeeZee_74, MegTheThird_83, Melvin_77, Methuselah_73, Micasa_70, Microwolf_76, MiculUcigas_83, Midas2_67, Miko_78, Milcery_70, Millski_74, Minispark_84, Miramae_74, MissWhite_76, MoneyMay_80, Montavir_75, Morpher26_74, Morrow_77, MuchMore_83, Mulciber_82, Munch_84, Mundrea_74, MyraDee_79, Myxus_87, NaSiaTalie_84, Naca_73, Nebs_76, Neeharika16_82, Nemo27_74, Newrala_82, NicoleTera_81, Noella_80, Noelle_75, Norbert_75, NorthStar_72, NotAPhaseMom_74, NothingSpecial_78, Nyxis_74, OKCentral2016_82, OKaNui_74, Obama12_76, Ohfah_76, OlanP_78, Ollie_80, Onglai_85, Orange_84, P28Green_80, PGHhamlin_82, PP_76, PainterBoy_82, Palestino_74, Panamaxus_76, Pawn_78, PeaceMeal1_80, Peaches_73, Pembroke_80, Penny1_80, Perplexer_74,

PeterPeter_75, Petersenfast_78, PetiteSangsue_74, PetterN_78, Phacado_75, Phaded_76, Phaeder_87, Phantastic_80, Pharaoh_77, Phelipe_76, Phighter1804_75, PhishRPhriends_76, Phlorence_69, Phoebe_81, Phonnegut_87, Phontbonne_75, Phoxy_80, PickleBack_71, Pioneer_87, Pipcraft_71, Piro94_82, Pistachio_79, Pmask_82, Pocahontas_78, Polymorphads_76, Pomar16_83, Poompha_80, Popcicle_79, PotatoSplit_81, Power_83, Priamo_85, Prinashe11_68, Priya_85, Prudy_78, Pukovnik_77, Pumbaa_75, Puppy_80, PurpleHaze_79, Qobbit_85, QueenB2_80, QueenBeesly_83, QuinnKiro_78, Quokka_85, Rachaly_80, Rahalelujah_86, Reba_75, Rebeuca_84, RedRock_83, Refuge_80, Relief_74, ResDef_77, Retro23_83, RhynO_71, Rifter_84, RockieBear_72, Roimos_77, Roksolana_84, Romney_74, Roosevelt_73, Rosa24_71, Rowdy_86, Ruin_75, Rummer_79, RyeScarlet_88, Sabertooth_75, Sabia_78, Sabinator_78, Sachima_83, Salz_79, Saskia_81, SaturnRing_79, Scamp_75, Scherzo_85, Scout_78, SemperFi_83, SenorClean_76, Serenity_86, Severus_81, Shaka_73, Sham4_80, Shapes_86, SheaKeira_82, Sheen_75, SheldonCooper_75, Shygu2_74, Skipitt_74, Sknot_83, Smeagan_86, SmellyB_83, SnapTap_83, Snape_84, Snickers_80, SoYo_77, SoilDragon_80, SororFago_82, Soshari_82, Sparxx_76, Spike509_80, Spino_74, Spouty_85, Stagni_77, StarStuff_83, Stasia_73, SteMason_71, Steamy_75, StepMih_80, Stink_74, Sultana_75, Sunhee_83, SuperAwesome_83, SuperCallie99_80, SweetiePie_83, Swirley_70, SydNat_70, TNguyen7_80, Taquarus_74, TarsusIV_82, Tarynearal_69, Taurus_81, Temprado_85, Terrific_84, Texage_77, Thanksgivukkah_74, Theia_69, Tiffany_79, Timothy_84, Timshel_75, TinaFeyge_73, TinyPebbles_79, TinyTimmy_82, Tinybot_74, TipsytheTRex_82, TiroTheta9_74, Toaka_85, Todacoro_79, Tomathan_83, ToneTone_81, Topanga_73, Toro_76, Travvers_83, Tristan_78, Trixie_83, Trooper_82, TroyPia_76, Tubs_87, Tucker_84, Turbido_84, Twigg_67, Twister_84, TygerBlood_75, Ugenie5_74, Ulysses_74, Updawg_84, VA6_83, VC3_81, Vanisoa_82, Veracruz_76, Vix_76, VohminGhazi_83, WalterMcMickey_83, Wander_75, Watson_79, WeiHuaDA_85, Whabigail7_83, WideWale_84, Wiks_83, Wilbur_75, Wile_73, Wizard007_74, Wolpertinger_83, Wooldri_82, WorldCup_85, WunderPhul_84, Xena_73, XianYue_82, Yecey3_88, YoSam321_75, Yokurt_83, Zaka_84, Zarafa_76, Zeuska_78, Zimmer_79, Zolita_69, Zulu_85,

Summary by start number:

Start 48:
• Found in 1 of 820 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 725
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Journey13_68 (A2),

Start 61:
• Found in 17 of 820 (2.1%) of genes in pham
• Manual Annotations of this start: 2 of 725
• Called 11.8% of time when present
• Phage (with cluster) where this start called: Bumblebee11_73 (A4), Morpher26_74 (A4),

Start 62:
• Found in 17 of 820 (2.1%) of genes in pham
• Manual Annotations of this start: 13 of 725
• Called 76.5% of time when present

• Phage (with cluster) where this start called: AbbysRanger_74 (A4), Achebe_73 (A4), Backyardigan_72 (A4), Camperdownii_73 (A4), Cici_74 (A4), Datway_74 (A4), Katalie136_74 (A4), Kremtemulon_74 (A4), Noelle_75 (A4), Perplexer_74 (A4), PetiteSangsue_74 (A4), Wizard007_74 (A4), Xena_73 (A4),

Start 65:
• Found in 2 of 820 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 725
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LeoAvram_74 (A4), LionsBait_82 (A2),

Start 66:
• Found in 20 of 820 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 725
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Blinn1_87 (A6), Candra_81 (A6),

Start 67:
• Found in 77 of 820 (9.4%) of genes in pham
• Manual Annotations of this start: 1 of 725
• Called 2.6% of time when present
• Phage (with cluster) where this start called: IgnatiusPatJac_76 (A1), StewieG_72 (A1),

Start 71:
• Found in 11 of 820 (1.3%) of genes in pham
• Manual Annotations of this start: 2 of 725
• Called 18.2% of time when present
• Phage (with cluster) where this start called: Badger_73 (A4), Wile_73 (A4),

Start 78:
• Found in 4 of 820 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 725
• Called 25.0% of time when present
• Phage (with cluster) where this start called: PP_76 (A7),

Start 79:
• Found in 6 of 820 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 725
• Called 33.3% of time when present
• Phage (with cluster) where this start called: BigPaolini_74 (A1), KBG_74 (A1),

Start 80:
• Found in 89 of 820 (10.9%) of genes in pham
• Manual Annotations of this start: 2 of 725
• Called 2.2% of time when present
• Phage (with cluster) where this start called: BreSam8_80 (A3), Watson_79 (A3),

Start 81:
• Found in 4 of 820 (0.5%) of genes in pham
• Manual Annotations of this start: 4 of 725
• Called 100.0% of time when present

• Phage (with cluster) where this start called: BobSwaget_77 (A2), Lokk_78 (A2), Miko_78 (A2), Rachaly_80 (A2),

Start 83:
• Found in 236 of 820 (28.8%) of genes in pham
• Manual Annotations of this start: 208 of 725
• Called 98.3% of time when present
• Phage (with cluster) where this start called: A6_70 (A1), AFIS_73 (A1), Abbyshoes_76 (A1), Abrogate_730 (A1), Acme_80 (A1), Adahisdi_72 (A1), Aeneas_81 (A1), Agaliana_74 (A1), Ajay_73 (A1), Aldrich_68 (A1), Alsfro_83 (A1), Altman_79 (A1), Alvin_74 (A1), Anglerfish_78 (A1), Applejack_75 (A1), Arcanine_80 (A1), Arlo_76 (A1), Ashballer_78 (A1), Atkinbua_82 (A1), BK1_70 (A1), BPBiebs31_81 (A1), BaconJack_78 (A1), Barriga_83 (A1), BarrowTuph_79 (A1), Beatrix_73 (A1), BeesKnees_77 (A1), Bethlehem_79 (A1), Bexan_71 (A1), Big3_77 (A1), BigMau_79 (A1), Bigchungi_77 (A1), Bigfoot_71 (A1), BillKnuckles_70 (A1), Bircsak_77 (A1), Blackflame_72 (A1), Blesser_70 (A1), BluSpix_74 (A1), Blue_73 (A1), Bob3_77 (A1), Bones_72 (A1), Briton15_79 (A1), Bruns_79 (A1), Burton_77 (A1), Buttons_73 (A1), Bxb1_70 (A1), CactusRose_79 (A1), Carlyle_77 (A1), CartmannCramer_72 (A1), CatBus_68 (A1), Chanagan_73 (A1), ChristmasHams_67 (A1), Ciao_73 (A1), ConceptII_81 (A1), Corvo_78 (A1), Crispicous1_71 (A1), DD5_74 (A1), Dexes_77 (A1), DirtDevil_70 (A1), Doom_69 (A1), DrFeelGood_72 (A1), DreamCatcher_80 (A1), Dreamboat_76 (A1), Dulcie_77 (A1), Dussy_75 (A1), Dynamix_76 (A1), Edtherson_75 (A1), EnzoK_77 (A1), Espresso_70 (A1), Euphoria_77 (A1), Eyeball_75 (A1), Fajezeel_79 (A1), Fascinus_72 (A1), Fenn_79 (A1), Forsytheast_78 (A1), Francis47_78 (A1), Fushigi_70 (A1), GMonster_74 (A1), GageAP_79 (A1), Gandalf20_75 (A1), Gompeii16_77 (A1), Graduation_79 (A1), GrecoEtereo_80 (A1), Greg_79 (A1), GroundGoblin_69 (A1), Gwendoluna_80 (A1), Gyzlar_69 (A1), Hami1_69 (A1), HanShotFirst_74 (A1), HarryOW_77 (A1), Hermia_71 (A1), HermioneGrange_80 (A1), Homines_64 (A1), Hope4ever_77 (A1), ILeeKay_74 (A1), Ichabod_79 (A1), Inyanga_68 (A1), Iqorha_68 (A1), JackSparrow_77 (A1), Jasper_75 (A1), Jerm2_78 (A1), JuliaChild_77 (A1), KSSJEB_73 (A1), Kanely_78 (A1), Kenmech_78 (A1), KikiBouba_70 (A1), Killigrew_73 (A1), Kimona_76 (A19), Kugel_78 (A1), KyMonks1A_82 (A1), Kykar_76 (A1), Lamina13_80 (A1), Lesedi_73 (A1), Levia_70 (A1), Licorice_77 (A1), LilBib_73 (A1), Lockley_73 (A1), Lopton_75 (A1), MPlant7149_76 (A1), Magnar_72 (A1), Magnito_75 (A1), Makemake_79 (A1), Manatee_74 (A1), Marcell_69 (A1), Marchy_68 (A1), Marco3_79 (A1), Marge_73 (A1), Maroc7_78 (A1), Marsha_76 (A1), MaryBeth_74 (A1), McGuire_76 (A1), McSinger_75 (A1), MetalQZJ_73 (A1), Michley_77 (A1), Mkhuseli_73 (A1), Molly_76 (A1), Monet_80 (A1), Moose_78 (A1), MrGordo_77 (A1), Mryolo_71 (A1), Mule_75 (A1), Museum_76 (A1), NEHalo_72 (A1), Naira_78 (A1), Nerujay_80 (A1), Nhonho_72 (A1), Niza_76 (A1), Norz_72 (A1), Noxious_69 (A1), Ohno789_79 (A1), Oogway_75 (A1), PSullivan_74 (A1), PacerPaul_81 (A1), Papez_78 (A1), Paphu_71 (A1), Paraselene_74 (A1), Pari_81 (A1), Parliament_77 (A1), PascalRango_74 (A1), PattyP_76 (A1), Pelly_79 (A1), Pepe_70 (A1), Perseus_76 (A1), Peterson_75 (A1), Petp2012_77 (A1), Petruchio_76 (A1), PherrisBueller_75 (A1), PhineBark_72 (A1), Phlippers_74 (A1), PhrostyMug_78 (A1), PinkPlastic_72 (A1), Pinto_76 (A1), Pippin_77 (A1), Pita2_77 (A1), PowerRanger_72 (A1), ProMouse_76 (A1), Puppet_71 (A1), QTRlifeCrisis_75 (A1), Raid_74 (A1), Rajelicia_78 (A1), Rhynn_72 (A1), Ringer_76 (A1), Rohr_79 (A1), Rubeus_77 (A1), Rufus_79 (A1), Ruotula_80 (A1), Rutherferd_78 (A1), STLscum_82 (A1), Sagefire_73 (A1), Sandaddy_74 (A1), Sanya_71 (A1), SarFire_80 (A1), Scowl_77 (A1), Seabiscuit_77 (A1), Seanderson_76 (A1), ShortQueendom_69 (A1), Sibs6_76 (A1), SkiPole_85 (A1), Slagathor_77 (A1), Smairt_80 (A1), Smeagol_79

(A1), Snazzy_77 (A1), Solon_72 (A1), Sorpresa_75 (A1), SpikeBT_73 (A1), Squee_77 (A1), StrongArm_72 (A1), Sumter_73 (A1), Sunshine924_77 (A1), SwissCheese_80 (A1), Switzer_75 (A1), Swole_77 (A1), Target_76 (A1), Tasp14_75 (A1), Teodoridan_74 (A1), TheloniousMonk_78 (A1), Thor_80 (A1), Topgun_72 (A1), Tote_72 (A1), Traft412_76 (A1), Treddle_78 (A1), Tripl3t_79 (A1), Trouble_76 (A1), Turj99_72 (A1), TwoPeat_76 (A1), U2_70 (A1), Violet_71 (A1), Watermelon_79 (A1), Wheeler_81 (A1), Whitspit_69 (A1), Wilkins_73 (A1), Zeeculate_72 (A1), Zephyr_78 (A1),

Start 84:
• Found in 2 of 820 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 725
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Stasia_73 (A4),

Start 86:
• Found in 6 of 820 (0.7%) of genes in pham
• Manual Annotations of this start: 4 of 725
• Called 66.7% of time when present
• Phage (with cluster) where this start called: AvatarAhPeg_74 (A4), Cindaradix_70 (A4), Miramae_74 (A4), Mundrea_74 (A4),

Start 87:
• Found in 3 of 820 (0.4%) of genes in pham
• Manual Annotations of this start: 3 of 725
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JC27_77 (A1), Jorgensen_83 (A1), Zeuska_78 (A1),

Start 88:
• Found in 126 of 820 (15.4%) of genes in pham
• Manual Annotations of this start: 121 of 725
• Called 99.2% of time when present
• Phage (with cluster) where this start called: Abdiel_74 (A4), Albee_75 (A4), Alberto7_76 (A4), Annyong_74 (A4), Arturo_72 (A4), Avle17_75 (A4), Baby16_75 (A4), Bactobuster_74 (A2), BangNhom_72 (A4), Bartimeaus_75 (A4), BellusTerra_76 (A4), Blackmoor_74 (A4), Bombshell_75 (A4), Broseidon_75 (A4), Bruiser_74 (A4), BubbleTrouble_74 (A4), Burger_73 (A4), Caelakin_73 (A4), CentreCat_75 (A4), Cerulean_77 (A4), ChampagnePapi_78 (A4), Chaph_75 (A4), Citius_75 (A4), Clarenza_74 (A4), Cocoaberry_75 (A4), Commander_73 (A4), Connomayer_75 (A4), Deano_72 (A4), Dhanush_75 (A4), DirtyDunning_74 (A4), Druantia_74 (A4), Eagle_74 (A4), Eapen_75 (A4), Eris_74 (A4), Eros_75 (A4), Eurydice_76 (A4), Florean_75 (A4), Flux_76 (A4), Funston_74 (A4), Gadost_75 (A4), HamSlice_71 (A4), Happiness_74 (A4), Holli_74 (A4), Houdini22_74 (A4), ICleared_74 (A4), Iceman_73 (A4), Iracema64_75 (A4), Jaan_80 (A2), Jaykayelowell_72 (A4), JetBlade_76 (A4), JoongJeon_74 (A4), KFPoly_74 (A4), Kampy_74 (A4), KekoraPapaka_72 (A4), Kingmustik0402_75 (A4), Koan_72 (A4), Koreni_74 (A4), Kratark_74 (A4), Kyee_75 (A4), LHTSCC_77 (A4), Landor_80 (A2), LappelDuVide_75 (A4), Lemur_75 (A4), LittleB_75 (A4), LittleGuy_75 (A4), LochMonster_76 (A4), Lorenzo_75 (A4), Lunsford_75 (A4), Maverick_74 (A4), Maxo_77 (A4), Mayonnaise_72 (A4), Mazhar510_75 (A4), Medusa_74 (A4), MeeZee_74 (A4), Melvin_77 (A4), Millski_74 (A4), Morrow_77 (A4), Nebs_76 (A4), Nemo27_74 (A4), NorthStar_72 (A4), NotAPhaseMom_74 (A4), Nyxis_74 (A4), OKaNui_74 (A4), Obama12_76 (A4),

Ohfah_76 (A4), Palestino_74 (A4), Peaches_73 (A4), PeterPeter_75 (A4), Phacado_75 (A4), Phaded_76 (A2), Phelipe_76 (A4), Phighter1804_75 (A4), Phontbonne_75 (A4), Pipcraft_71 (A4), Polymorphads_76 (A4), Pukovnik_77 (A2), Pumbaa_75 (A4), Relief_74 (A4), RockieBear_72 (A4), Romney_74 (A4), Roosevelt_73 (A4), Rosa24_71 (A4), Ruin_75 (A4), Sabertooth_75 (A4), Scamp_75 (A4), SenorClean_76 (A4), Shaka_73 (A4), SheldonCooper_75 (A4), Shygu2_74 (A4), Skipitt_74 (A4), Sparxx_76 (A4), Spino_74 (A4), SteMason_71 (A4), Sultana_75 (A4), Taquarus_74 (A4), Thanksgivukkah_74 (A4), TinaFeyge_73 (A4), Tinybot_74 (A4), TiroTheta9_74 (A4), TroyPia_76 (A4), TygerBlood_75 (A4), Ulysses_74 (A4), Wander_75 (A4), Wilbur_75 (A4), YoSam321_75 (A4),

Start 89:
• Found in 2 of 820 (0.2%) of genes in pham
• Manual Annotations of this start: 2 of 725
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IronMan_79 (A2), Tristan_78 (A2),

Start 90:
• Found in 7 of 820 (0.9%) of genes in pham
• Manual Annotations of this start: 6 of 725
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Bonamassa_70 (A5), Coog_67 (A5), Cuco_69 (A5), HuhtaEnerson15_68 (A5), LittleCherry_69 (A5), Midas2_67 (A5),

Start 91:
• Found in 25 of 820 (3.0%) of genes in pham
• Manual Annotations of this start: 2 of 725
• Called 20.0% of time when present
• Phage (with cluster) where this start called: 20ES_85 (A2), CRB1_84 (A2), Deloris_85 (A2), First_0084 (A2), LadyBird_87 (A2),

Start 92:
• Found in 8 of 820 (1.0%) of genes in pham
• Manual Annotations of this start: 7 of 725
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Archetta_68 (A5), Bluefalcon_66 (A5), Dublin_70 (A5), Ghoulboy_70 (A5), Micasa_70 (A5), SydNat_70 (A5), Theia_69 (A5),

Start 94:
• Found in 38 of 820 (4.6%) of genes in pham
• Manual Annotations of this start: 17 of 725
• Called 44.7% of time when present
• Phage (with cluster) where this start called: BABullseye_76 (A6), Chartreuse_82 (A6), Cookiedough_83 (A6), DaVinci_81 (A6), Dorothea_83 (A6), GreedyLawyer_77 (A6), Hoot_78 (A6), Isiphiwo_80 (A6), Kazan_84 (A6), Kipper29_83 (A6), McFly_83 (A6), Neeharika16_82 (A6), Newrala_82 (A6), Pmask_82 (A6), SmellyB_83 (A6), SuperAwesome_83 (A6), VohminGhazi_83 (A6),

Start 95:
• Found in 13 of 820 (1.6%) of genes in pham
• Manual Annotations of this start: 11 of 725
• Called 100.0% of time when present

• Phage (with cluster) where this start called: AgentM_70 (A5), Aragog_70 (A5), Conspiracy_71 (A5), Discoknowium_68 (A5), ForGetIt_71 (A5), Lev2_71 (A5), Milcery_70 (A5), Phlorence_69 (A5), PickleBack_71 (A5), Prinashe11_68 (A5), Swirley_70 (A5), Tarynearal_69 (A5), Twigg_67 (A5),

Start 96:
• Found in 19 of 820 (2.3%) of genes in pham
• Manual Annotations of this start: 15 of 725
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chupacabra_80 (A10), Cintron_76 (A4), DontArgue_78 (A10), Drake94_80 (A10), DustyMartin_86 (A10), Eaglepride_86 (A10), Goose_84 (A10), Herbertwm_77 (A2), Iwokeuplikedis_86 (A2), KittenMittens_78 (A10), Kristoff_81 (A10), OKCentral2016_82 (A10), PeaceMeal1_80 (A10), Poompha_80 (A10), Rebeuca_84 (A10), RhynO_71 (A10), Rowdy_86 (A10), Severus_81 (A10), Shapes_86 (A10),

Start 97:
• Found in 42 of 820 (5.1%) of genes in pham
• Manual Annotations of this start: 26 of 725
• Called 71.4% of time when present
• Phage (with cluster) where this start called: Airmid_73 (A5), Aneem_85 (A11), Bachome_82 (A11), Bowtie_81 (A11), Bud_79 (A11), Ebony_84 (A11), Et2Brutus_83 (A11), Fibonacci_83 (A11), Flaverint_85 (A11), Gilberta_81 (A11), Hutc2_80 (A11), Insomnia_83 (A11), Jabith_83 (A11), Joselito_83 (A11), Kimba_81 (A11), Lucivia_85 (A11), MaCh_84 (A11), Mabel_84 (A11), Mulciber_82 (A11), Munch_84 (A11), Orange_84 (A11), Petersenfast_78 (A11), Salz_79 (A11), Saskia_81 (A11), Sham4_80 (A11), Snape_84 (A11), Timothy_84 (A11), TinyTimmy_82 (A11), Wolpertinger_83 (A11), Zolita_69 (A5),

Start 98:
• Found in 23 of 820 (2.8%) of genes in pham
• Manual Annotations of this start: 19 of 725
• Called 91.3% of time when present
• Phage (with cluster) where this start called: AN3_83 (A2), AbbyPaige_85 (A2), Agape74_85 (A2), BengiVuitton_85 (A2), Benvolio_82 (A2), BiancaTri92_81 (A2), ChipMunk_84 (A2), DeerParkTS_79 (A2), Dignity_85 (A2), EvilGenius_83 (A2), HippoHollow_80 (A2), Jerm_85 (A2), JoshKayV_85 (A2), KingCyrus_82 (A2), Leviathan_85 (A2), LilTurb_84 (A2), Smeagan_86 (A2), Turbido_84 (A2), VA6_83 (A2), Whabigail7_83 (A2), XianYue_82 (A2),

Start 99:
• Found in 67 of 820 (8.2%) of genes in pham
• Manual Annotations of this start: 25 of 725
• Called 49.3% of time when present
• Phage (with cluster) where this start called: ArcherNM_78 (A2), Arissanae_82 (A9), BogosyJay_86 (A9), Darrell_85 (A9), DarthPhader_78 (A12), EagleEye_83 (A16), EdogawaKiddo_86 (A9), EmyBug_84 (A9), Fayely_85 (A9), FlyCatcher_78 (A7), Hanray_85 (A9), Jiawan_85 (A9), LoneWolf_87 (A9), Lucyedi_82 (A16), Maminiaina_86 (A9), MissWhite_76 (A2), PainterBoy_82 (A16), Pharaoh_77 (A12), Prudy_78 (A2), Rahalelujah_86 (A9), Refuge_80 (A12), RyeScarlet_88 (A9), Sachima_83 (A9), SheaKeira_82 (A9), Sheen_75 (A7), Spouty_85 (A9), Steamy_75 (A12), Toaka_85 (A9), Toro_76 (A7), Tubs_87 (A9), Vanisoa_82 (A9), Yecey3_88 (A9), Zimmer_79 (A12),

Start 100:
• Found in 53 of 820 (6.5%) of genes in pham
• Manual Annotations of this start: 33 of 725
• Called 69.8% of time when present
• Phage (with cluster) where this start called: 40AC_78 (A17), Anselm_84 (A2), Baehexic_82 (A2), Centaur_83 (A2), Colin_82 (A2), Crucio_83 (A2), Dalmatian_83 (A2), Drake55_84 (A2), DudeLittle_81 (A2), Echild_85 (A2), Equemioh13_83 (A2), Fameo_81 (A2), FiringLine_83 (A2), Flare16_83 (A2), Georgie2_85 (A2), Gratitude_81 (A2), HarryHoudini_83 (A2), Heffalump_80 (A2), Larenn_81 (A2), Malec_82 (A2), MiculUcigas_83 (A2), NaSiaTalie_84 (A2), NicoleTera_81 (A2), Piro94_82 (A2), Power_83 (A2), QueenB2_80 (A2), QueenBeesly_83 (A2), Retro23_83 (A2), SemperFi_83 (A2), Sknot_83 (A2), SnapTap_83 (A2), SweetiePie_83 (A2), TarsusIV_82 (A2), Terrific_84 (A2), Trooper_82 (A2), Updawg_84 (A2), WideWale_84 (A2),

Start 101:
• Found in 21 of 820 (2.6%) of genes in pham
• Manual Annotations of this start: 17 of 725
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AN9_82 (A2), ANI8_82 (A2), Bradman_86 (A2), C3_75 (A2), Chargerpower_83 (A22), DBQu4n_83 (A2), Duplo_84 (A2), Jsquared_87 (A2), Kerberos_83 (A2), Keziacharles14_84 (A9), Koduck_83 (A2), L5_76 (A2), MajorMajor_80 (A2), Pomar16_83 (A2), Quokka_85 (A2), Serenity_86 (A2), StarStuff_83 (A2), TipsytheTRex_82 (A2), Tomathan_83 (A2), Travvers_83 (A2), VC3_81 (A2),

Start 102:
• Found in 2 of 820 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 725
• Called 50.0% of time when present
• Phage (with cluster) where this start called: MyraDee_79 (A18),

Start 103:
• Found in 16 of 820 (2.0%) of genes in pham
• Manual Annotations of this start: 12 of 725
• Called 81.2% of time when present
• Phage (with cluster) where this start called: AnnaL29_85 (A2), BabyBack_78 (A2), Changeling_82 (A2), DroogsArmy_74 (A7), ForesterFrank_78 (A2), GaugeLDP_77 (A2), HINdeR_74 (A7), Kalpine_85 (A2), Loser_86 (A2), NothingSpecial_78 (A2), RedRock_83 (A2), Timshel_75 (A7), Trixie_83 (A2),

Start 104:
• Found in 3 of 820 (0.4%) of genes in pham
• Manual Annotations of this start: 3 of 725
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Topanga_73 (A10), Twister_84 (A10), WalterMcMickey_83 (A10),

Start 107:
• Found in 19 of 820 (2.3%) of genes in pham
• Manual Annotations of this start: 7 of 725
• Called 36.8% of time when present

• Phage (with cluster) where this start called: Isca_75 (A3), Lambert1_79 (A3), MK4_72 (A3), Margo_79 (A3), Norbert_75 (A3), QuinnKiro_78 (A3), Veracruz_76 (A3),

Start 109:
• Found in 135 of 820 (16.5%) of genes in pham
• Manual Annotations of this start: 105 of 725
• Called 89.6% of time when present
• Phage (with cluster) where this start called: Acolyte_77 (A2), Aglet_81 (A3), Anubis_84 (A3), AugsMagnumOpus_83 (A3), B1_69 (A3), BabyRay_78 (A3), Beauxregard13_79 (A3), Benedict_74 (A5), Bigflo_77 (A3), BlueBird_81 (A3), Bugatti_79 (A3), BuzzBuzz_74 (A3), Bxz2_75 (A3), Calvinny_77 (A3), Chadwick_74 (A5), Clammy_79 (A3), ClownCar_77 (A3), Colbster_76 (A3), Croquant_77 (A3), Cullens_81 (A3), DaHudson_79 (A3), Daishi_79 (A3), Dieselweasel_81 (A3), DropBear_77 (A3), ElTiger69_76 (A5), EpicPhail_81 (A3), EtoileNova_77 (A3), Farber_80 (A3), Fernando_81 (A3), Fred313_76 (A3), Gemma_77 (A3), GingkoMaracino_80 (A3), Giroux_82 (A3), Grif_78 (A3), Groupthink_80 (A3), Grub_78 (A3), Grum1_80 (A3), GtownJaz_80 (A3), Gwennie_75 (A3), HashRod_81 (A3), HaveUMetTed_80 (A3), Heathen_78 (A3), HelDan_79 (A3), Heliosoles_77 (A3), Hercules11_80 (A3), Hookmount_79 (A3), Idleandcovert_79 (A3), JF2_75 (A3), JF4_75 (A3), JHC117_75 (A3), JenCasNa_81 (A3), JeppNRM_80 (A3), Jobu08_76 (A3), KADY_77 (A3), Kachowdy_76 (A3), Kalnoky_80 (A3), LBerry_81 (A3), LarryKay_80 (A3), Lilith_78 (A3), Louie6_79 (A3), Lowa_77 (A3), LugYA_83 (A3), MA5_77 (A3), MadMarie_78 (A3), Mainiac_79 (A3), Malinsilva_83 (A3), Manu_79 (A3), MarQuardt_80 (A3), Marchesa_78 (A3), Marie_78 (A3), Marius_80 (A3), Methuselah_73 (A3), Microwolf_76 (A3), MoneyMay_80 (A3), Montavir_75 (A3), MuchMore_83 (A3), Naca_73 (A5), Noella_80 (A3), OlanP_78 (A3), Ollie_80 (A3), P28Green_80 (A3), PGHhamlin_82 (A3), Panamaxus_76 (A3), Pawn_78 (A3), Pembroke_80 (A3), Penny1_80 (A3), PetterN_78 (A5), Phantastic_80 (A3), PhishRPhriends_76 (A3), Phoebe_81 (A3), Phoxy_80 (A3), Pistachio_79 (A3), Pocahontas_78 (A3), Popcicle_79 (A3), PotatoSplit_81 (A3), Puppy_80 (A3), PurpleHaze_79 (A3), Reba_75 (A3), ResDef_77 (A3), Roimos_77 (A3), Rummer_79 (A3), Sabia_78 (A3), Sabinator_78 (A3), SaturnRing_79 (A3), Scout_78 (A3), Snickers_80 (A3), SoYo_77 (A3), SoilDragon_80 (A3), Soshari_82 (A3), Spike509_80 (A3), Stagni_77 (A3), StepMih_80 (A3), TNguyen7_80 (A3), Taurus_81 (A3), Texage_77 (A3), Tiffany_79 (A3), TinyPebbles_79 (A3), Todacoro_79 (A3), Vix_76 (A3), Wooldri_82 (A3), Zarafa_76 (A3),

Start 110:
• Found in 23 of 820 (2.8%) of genes in pham
• Manual Annotations of this start: 4 of 725
• Called 26.1% of time when present
• Phage (with cluster) where this start called: EZMoney23_79 (A2), Gail_84 (A14), Jeeves_84 (A14), Luchador_82 (A14), SororFago_82 (A14), WeiHuaDA_85 (A2),

Start 114:
• Found in 53 of 820 (6.5%) of genes in pham
• Manual Annotations of this start: 17 of 725
• Called 47.2% of time when present
• Phage (with cluster) where this start called: Aliter_80 (A9), Alma_85 (A9), Ayanochan_85 (A9), Beemo_87 (A9), Bellris_84 (A9), Catalina_89 (A9), CogOmlette_84 (A9), Conquerage_85 (A9), Eidsmoe_85 (A9), Elephantoon_87 (A9), ExplosioNervosa_85 (A9), Holex_86 (A9), HortumSL17_88 (A9), Lilleskat_84 (A9),

Minispark_84 (A9), Myxus_87 (A9), Onglai_85 (A9), Phaeder_87 (A9), Phonnegut_87 (A9), Pioneer_87 (A9), Priya_85 (A9), Qobbit_85 (A9), Scherzo_85 (A9), Ugenie5_74 (A9), WorldCup_85 (A9),

Start 116:
• Found in 17 of 820 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 725
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Stink_74 (A4),

Start 123:
• Found in 122 of 820 (14.9%) of genes in pham
• Manual Annotations of this start: 3 of 725
• Called 4.1% of time when present
• Phage (with cluster) where this start called: DelvinSonDorr_79 (A6), Jordennis_81 (A6), Priamo_85 (A6), Sunhee_83 (A14), SuperCallie99_80 (A6),

Start 124:
• Found in 127 of 820 (15.5%) of genes in pham
• Manual Annotations of this start: 2 of 725
• Called 3.1% of time when present
• Phage (with cluster) where this start called: Charm_82 (A9), DreamTeam1_82 (A9), Klodlith_83 (A9), MegTheThird_83 (A9),

Start 126:
• Found in 33 of 820 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 725
• Called 3.0% of time when present
• Phage (with cluster) where this start called: EricB_82 (A6),

Start 138:
• Found in 24 of 820 (2.9%) of genes in pham
• Manual Annotations of this start: 22 of 725
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Artemis2UCLA_83 (A6), BlessJoy_84 (A6), Blue7_85 (A6), CloudWang3_84 (A6), Gladiator_80 (A6), Gruunaga_83 (A6), Hammer_84 (A6), Helmet_86 (A6), Hexamo_83 (A6), Indra_87 (A6), Koko_85 (A6), Lilbunny_83 (A6), Rifter_84 (A6), Roksolana_84 (A6), Temprado_85 (A6), ToneTone_81 (A6), Tucker_84 (A6), Wiks_83 (A6), WunderPhul_84 (A6), Yokurt_83 (A6), Zaka_84 (A6), Zulu_85 (A6),

Start 141:
• Found in 24 of 820 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 8.3% of time when present
• Phage (with cluster) where this start called: BennyP_83 (A6), Garak_85 (A6),

Summary by clusters:

There are 17 clusters represented in this pham: A14, A22, A16, A11, A10, A12, A19, A18, A1, A3, A2, A5, A4, A7, A6, A9, A17,

Info for manual annotations of cluster A1:

•Start number 67 was manually annotated 1 time for cluster A1.
•Start number 79 was manually annotated 2 times for cluster A1.
•Start number 83 was manually annotated 207 times for cluster A1.
•Start number 87 was manually annotated 3 times for cluster A1.

Info for manual annotations of cluster A10:
•Start number 96 was manually annotated 12 times for cluster A10.
•Start number 104 was manually annotated 3 times for cluster A10.

Info for manual annotations of cluster A11:
•Start number 97 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A12:
•Start number 99 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:
•Start number 110 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A16:
•Start number 99 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:
•Start number 102 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:
•Start number 83 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 48 was manually annotated 1 time for cluster A2.
•Start number 81 was manually annotated 4 times for cluster A2.
•Start number 88 was manually annotated 5 times for cluster A2.
•Start number 89 was manually annotated 2 times for cluster A2.
•Start number 91 was manually annotated 2 times for cluster A2.
•Start number 96 was manually annotated 2 times for cluster A2.
•Start number 98 was manually annotated 19 times for cluster A2.
•Start number 99 was manually annotated 2 times for cluster A2.
•Start number 100 was manually annotated 33 times for cluster A2.
•Start number 101 was manually annotated 15 times for cluster A2.
•Start number 103 was manually annotated 9 times for cluster A2.
•Start number 109 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A22:
•Start number 101 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 80 was manually annotated 2 times for cluster A3.
•Start number 107 was manually annotated 7 times for cluster A3.
•Start number 109 was manually annotated 99 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 61 was manually annotated 2 times for cluster A4.
•Start number 62 was manually annotated 13 times for cluster A4.

•Start number 65 was manually annotated 1 time for cluster A4.
•Start number 71 was manually annotated 2 times for cluster A4.
•Start number 84 was manually annotated 1 time for cluster A4.
•Start number 86 was manually annotated 4 times for cluster A4.
•Start number 88 was manually annotated 116 times for cluster A4.
•Start number 96 was manually annotated 1 time for cluster A4.
•Start number 116 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A5:
•Start number 90 was manually annotated 6 times for cluster A5.
•Start number 92 was manually annotated 7 times for cluster A5.
•Start number 95 was manually annotated 11 times for cluster A5.
•Start number 97 was manually annotated 2 times for cluster A5.
•Start number 109 was manually annotated 5 times for cluster A5.

Info for manual annotations of cluster A6:
•Start number 66 was manually annotated 1 time for cluster A6.
•Start number 94 was manually annotated 17 times for cluster A6.
•Start number 123 was manually annotated 3 times for cluster A6.
•Start number 126 was manually annotated 1 time for cluster A6.
•Start number 138 was manually annotated 22 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 78 was manually annotated 1 time for cluster A7.
•Start number 99 was manually annotated 1 time for cluster A7.
•Start number 103 was manually annotated 3 times for cluster A7.

Info for manual annotations of cluster A9:
•Start number 99 was manually annotated 14 times for cluster A9.
•Start number 101 was manually annotated 1 time for cluster A9.
•Start number 114 was manually annotated 17 times for cluster A9.
•Start number 124 was manually annotated 2 times for cluster A9.

Gene Information:

Gene: 20ES_85 Start: 47721, Stop: 47398, Start Num: 91
Candidate Starts for 20ES_85:
(Start: 91 @47721 has 2 MA's), (130, 47655), (143, 47613),

Gene: 40AC_78 Start: 47105, Stop: 46806, Start Num: 100
Candidate Starts for 40AC_78:
(Start: 100 @47105 has 33 MA's), (130, 47042), (133, 47018),

Gene: A6_70 Start: 44506, Stop: 44207, Start Num: 83
Candidate Starts for A6_70:
(Start: 83 @44506 has 208 MA's), (118, 44461), (119, 44458), (146, 44389), (157, 44338),

Gene: AFIS_73 Start: 47515, Stop: 47216, Start Num: 83
Candidate Starts for AFIS_73:
(Start: 67 @47545 has 1 MA's), (Start: 83 @47515 has 208 MA's), (118, 47470), (119, 47467), (146, 47398), (157, 47347),

Gene: AN3_83 Start: 45926, Stop: 45603, Start Num: 98
Candidate Starts for AN3_83:
(14, 46256), (16, 46229), (54, 46019), (Start: 98 @45926 has 19 MA's), (Start: 100 @45923 has 33 MA's), (Start: 124 @45875 has 2 MA's), (130, 45860), (143, 45818),

Gene: AN9_82 Start: 46132, Stop: 45854, Start Num: 101
Candidate Starts for AN9_82:
(Start: 101 @46132 has 17 MA's), (120, 46099), (Start: 123 @46093 has 3 MA's), (160, 45958),

Gene: ANI8_82 Start: 46132, Stop: 45854, Start Num: 101
Candidate Starts for ANI8_82:
(Start: 101 @46132 has 17 MA's), (120, 46099), (Start: 123 @46093 has 3 MA's), (160, 45958),

Gene: AbbyPaige_85 Start: 47978, Stop: 47670, Start Num: 98
Candidate Starts for AbbyPaige_85:
(Start: 98 @47978 has 19 MA's), (Start: 100 @47975 has 33 MA's), (Start: 124 @47927 has 2 MA's), (130, 47912), (166, 47753),

Gene: AbbysRanger_74 Start: 45728, Stop: 45411, Start Num: 62
Candidate Starts for AbbysRanger_74:
(Start: 61 @45731 has 2 MA's), (Start: 62 @45728 has 13 MA's), (68, 45713), (Start: 94 @45677 has 17 MA's), (Start: 123 @45662 has 3 MA's), (134, 45623), (149, 45590),

Gene: Abbyshoes_76 Start: 46768, Stop: 46469, Start Num: 83
Candidate Starts for Abbyshoes_76:
(Start: 67 @46798 has 1 MA's), (Start: 83 @46768 has 208 MA's), (118, 46723), (119, 46720), (146, 46651), (157, 46600),

Gene: Abdiel_74 Start: 45659, Stop: 45360, Start Num: 88
Candidate Starts for Abdiel_74:
(Start: 88 @45659 has 121 MA's), (117, 45617),

Gene: Abrogate_730 Start: 47383, Stop: 47084, Start Num: 83
Candidate Starts for Abrogate_730:
(Start: 83 @47383 has 208 MA's), (118, 47338), (119, 47335), (146, 47266), (157, 47215),

Gene: Achebe_73 Start: 45705, Stop: 45394, Start Num: 62
Candidate Starts for Achebe_73:
(Start: 61 @45708 has 2 MA's), (Start: 62 @45705 has 13 MA's), (Start: 71 @45687 has 2 MA's), (74, 45684), (Start: 94 @45654 has 17 MA's), (Start: 123 @45642 has 3 MA's), (134, 45603), (149, 45570),

Gene: Acme_80 Start: 48839, Stop: 48540, Start Num: 83
Candidate Starts for Acme_80:
(Start: 67 @48869 has 1 MA's), (Start: 83 @48839 has 208 MA's), (118, 48794), (119, 48791), (146, 48722), (157, 48671),

Gene: Acolyte_77 Start: 46676, Stop: 46365, Start Num: 109
Candidate Starts for Acolyte_77:
(Start: 109 @46676 has 105 MA's),

Gene: Adahisdi_72 Start: 46838, Stop: 46539, Start Num: 83
Candidate Starts for Adahisdi_72:

(58, 46898), (Start: 83 @46838 has 208 MA's), (118, 46793), (119, 46790), (146, 46721), (157, 46670),

Gene: Aeneas_81 Start: 49127, Stop: 48828, Start Num: 83
Candidate Starts for Aeneas_81:
(Start: 67 @49157 has 1 MA's), (Start: 83 @49127 has 208 MA's), (118, 49082), (119, 49079), (146, 49010), (157, 48959),

Gene: Agaliana_74 Start: 45656, Stop: 45357, Start Num: 83
Candidate Starts for Agaliana_74:
(58, 45716), (Start: 83 @45656 has 208 MA's), (118, 45611), (119, 45608), (146, 45539), (157, 45488),

Gene: Agape74_85 Start: 47954, Stop: 47646, Start Num: 98
Candidate Starts for Agape74_85:
(Start: 98 @47954 has 19 MA's), (Start: 100 @47951 has 33 MA's), (130, 47888), (166, 47729),

Gene: AgentM_70 Start: 44113, Stop: 43817, Start Num: 95
Candidate Starts for AgentM_70:
(Start: 95 @44113 has 11 MA's), (111, 44092),

Gene: Aglet_81 Start: 45628, Stop: 45365, Start Num: 109
Candidate Starts for Aglet_81:
(73, 45691), (Start: 80 @45673 has 2 MA's), (Start: 109 @45628 has 105 MA's), (118, 45607),

Gene: Airmid_73 Start: 44940, Stop: 44644, Start Num: 97
Candidate Starts for Airmid_73:
(Start: 97 @44940 has 26 MA's), (Start: 109 @44928 has 105 MA's), (154, 44796), (157, 44772),

Gene: Ajay_73 Start: 46039, Stop: 45740, Start Num: 83
Candidate Starts for Ajay_73:
(58, 46099), (Start: 83 @46039 has 208 MA's), (118, 45994), (119, 45991), (146, 45922), (157, 45871),

Gene: Albee_75 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for Albee_75:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: Alberto7_76 Start: 45984, Stop: 45685, Start Num: 88
Candidate Starts for Alberto7_76:
(Start: 88 @45984 has 121 MA's), (117, 45942),

Gene: Aldrich_68 Start: 45340, Stop: 45041, Start Num: 83
Candidate Starts for Aldrich_68:
(Start: 83 @45340 has 208 MA's), (118, 45295), (119, 45292), (146, 45223), (157, 45172),

Gene: Aliter_80 Start: 45087, Stop: 44821, Start Num: 114
Candidate Starts for Aliter_80:
(Start: 99 @45105 has 25 MA's), (Start: 114 @45087 has 17 MA's), (Start: 123 @45066 has 3 MA's), (154, 44970),

Gene: Alma_85 Start: 47927, Stop: 47664, Start Num: 114
Candidate Starts for Alma_85:
(Start: 99 @47945 has 25 MA's), (Start: 114 @47927 has 17 MA's), (Start: 123 @47906 has 3 MA's), (154, 47810),

Gene: Alsfro_83 Start: 47402, Stop: 47103, Start Num: 83
Candidate Starts for Alsfro_83:
(58, 47462), (Start: 83 @47402 has 208 MA's), (118, 47357), (119, 47354), (146, 47285), (157, 47234),

Gene: Altman_79 Start: 47847, Stop: 47548, Start Num: 83
Candidate Starts for Altman_79:
(Start: 78 @47853 has 1 MA's), (Start: 83 @47847 has 208 MA's), (118, 47802), (119, 47799), (146, 47730), (157, 47679),

Gene: Alvin_74 Start: 46259, Stop: 45960, Start Num: 83
Candidate Starts for Alvin_74:
(58, 46319), (Start: 83 @46259 has 208 MA's), (118, 46214), (119, 46211), (146, 46142), (157, 46091),

Gene: Aneem_85 Start: 46838, Stop: 46542, Start Num: 97
Candidate Starts for Aneem_85:
(Start: 97 @46838 has 26 MA's), (106, 46829), (108, 46826), (120, 46799), (Start: 124 @46790 has 2 MA's), (154, 46700),

Gene: Anglerfish_78 Start: 48170, Stop: 47871, Start Num: 83
Candidate Starts for Anglerfish_78:
(58, 48230), (Start: 83 @48170 has 208 MA's), (118, 48125), (119, 48122), (146, 48053), (157, 48002),

Gene: AnnaL29_85 Start: 48114, Stop: 47815, Start Num: 103
Candidate Starts for AnnaL29_85:
(Start: 103 @48114 has 12 MA's), (Start: 109 @48102 has 105 MA's), (Start: 110 @48099 has 4 MA's), (111, 48096), (121, 48075), (130, 48054),

Gene: Annyong_74 Start: 45692, Stop: 45393, Start Num: 88
Candidate Starts for Annyong_74:
(Start: 88 @45692 has 121 MA's), (117, 45650),

Gene: Anselm_84 Start: 47862, Stop: 47560, Start Num: 100
Candidate Starts for Anselm_84:
(Start: 100 @47862 has 33 MA's), (121, 47823), (Start: 124 @47817 has 2 MA's), (166, 47643),

Gene: Anubis_84 Start: 45514, Stop: 45251, Start Num: 109
Candidate Starts for Anubis_84:
(73, 45577), (Start: 80 @45559 has 2 MA's), (Start: 109 @45514 has 105 MA's), (118, 45493),

Gene: Applejack_75 Start: 45021, Stop: 44722, Start Num: 83
Candidate Starts for Applejack_75:
(22, 45228), (24, 45201), (29, 45159), (30, 45156), (36, 45129), (43, 45117), (46, 45108), (52, 45093), (75, 45039), (Start: 83 @45021 has 208 MA's), (118, 44976), (119, 44973), (146, 44904), (157, 44853),

Gene: Aragog_70 Start: 44131, Stop: 43835, Start Num: 95
Candidate Starts for Aragog_70:
(Start: 95 @44131 has 11 MA's), (111, 44110), (160, 43951),

Gene: Arcanine_80 Start: 48772, Stop: 48473, Start Num: 83
Candidate Starts for Arcanine_80:
(58, 48832), (Start: 83 @48772 has 208 MA's), (118, 48727), (119, 48724), (146, 48655), (157, 48604),

Gene: ArcherNM_78 Start: 47236, Stop: 46946, Start Num: 99

Candidate Starts for ArcherNM_78:
(Start: 99 @47236 has 25 MA's), (Start: 114 @47215 has 17 MA's), (Start: 116 @47212 has 1 MA's),

Gene: Archetta_68 Start: 44079, Stop: 43762, Start Num: 92
Candidate Starts for Archetta_68:
(60, 44151), (Start: 80 @44100 has 2 MA's), (85, 44091), (Start: 92 @44079 has 7 MA's), (Start: 97 @44073 has 26 MA's), (119, 44037), (Start: 124 @44025 has 2 MA's),

Gene: Arissanae_82 Start: 47825, Stop: 47556, Start Num: 99
Candidate Starts for Arissanae_82:
(Start: 99 @47825 has 25 MA's), (Start: 114 @47807 has 17 MA's), (Start: 123 @47786 has 3 MA's), (Start: 124 @47783 has 2 MA's), (155, 47687),

Gene: Arlo_76 Start: 47562, Stop: 47263, Start Num: 83
Candidate Starts for Arlo_76:
(Start: 67 @47592 has 1 MA's), (Start: 83 @47562 has 208 MA's), (118, 47517), (119, 47514), (146, 47445), (157, 47394),

Gene: Artemis2UCLA_83 Start: 45479, Stop: 45216, Start Num: 138
Candidate Starts for Artemis2UCLA_83:
(25, 45779), (35, 45722), (37, 45719), (56, 45674), (115, 45551), (Start: 138 @45479 has 22 MA's), (141, 45467), (144, 45461), (153, 45422),

Gene: Arturo_72 Start: 45775, Stop: 45476, Start Num: 88
Candidate Starts for Arturo_72:
(Start: 88 @45775 has 121 MA's), (117, 45733),

Gene: Ashballer_78 Start: 47615, Stop: 47316, Start Num: 83
Candidate Starts for Ashballer_78:
(Start: 83 @47615 has 208 MA's), (118, 47570), (119, 47567), (146, 47498), (150, 47486), (157, 47447),

Gene: Atkinbua_82 Start: 48174, Stop: 47875, Start Num: 83
Candidate Starts for Atkinbua_82:
(Start: 79 @48180 has 2 MA's), (Start: 83 @48174 has 208 MA's), (118, 48129), (119, 48126), (146, 48057), (157, 48006),

Gene: AugsMagnumOpus_83 Start: 45616, Stop: 45353, Start Num: 109
Candidate Starts for AugsMagnumOpus_83:
(73, 45679), (Start: 80 @45661 has 2 MA's), (Start: 109 @45616 has 105 MA's),

Gene: AvatarAhPeg_74 Start: 45580, Stop: 45284, Start Num: 86
Candidate Starts for AvatarAhPeg_74:
(Start: 86 @45580 has 4 MA's), (Start: 116 @45559 has 1 MA's), (Start: 123 @45541 has 3 MA's), (148, 45472), (164, 45373),

Gene: Avle17_75 Start: 45641, Stop: 45342, Start Num: 88
Candidate Starts for Avle17_75:
(Start: 88 @45641 has 121 MA's), (117, 45599),

Gene: Ayanochan_85 Start: 47710, Stop: 47447, Start Num: 114
Candidate Starts for Ayanochan_85:

(Start: 99 @47728 has 25 MA's), (Start: 114 @47710 has 17 MA's), (Start: 123 @47689 has 3 MA's), (154, 47593),

Gene: B1_69 Start: 43846, Stop: 43562, Start Num: 109
Candidate Starts for B1_69:
(Start: 91 @43867 has 2 MA's), (Start: 107 @43849 has 7 MA's), (Start: 109 @43846 has 105 MA's), (154, 43726), (162, 43642),

Gene: BABullseye_76 Start: 43895, Stop: 43605, Start Num: 94
Candidate Starts for BABullseye_76:
(30, 44039), (41, 44009), (64, 43943), (Start: 66 @43937 has 1 MA's), (Start: 94 @43895 has 17 MA's), (Start: 123 @43853 has 3 MA's), (Start: 124 @43850 has 2 MA's), (Start: 126 @43844 has 1 MA's), (128, 43841), (131, 43832), (149, 43775),

Gene: BK1_70 Start: 44506, Stop: 44207, Start Num: 83
Candidate Starts for BK1_70:
(Start: 83 @44506 has 208 MA's), (118, 44461), (119, 44458), (146, 44389), (157, 44338),

Gene: BPBiebs31_81 Start: 48674, Stop: 48375, Start Num: 83
Candidate Starts for BPBiebs31_81:
(Start: 67 @48704 has 1 MA's), (Start: 83 @48674 has 208 MA's), (118, 48629), (119, 48626), (146, 48557), (157, 48506),

Gene: Baby16_75 Start: 45658, Stop: 45359, Start Num: 88
Candidate Starts for Baby16_75:
(Start: 88 @45658 has 121 MA's), (117, 45616),

Gene: BabyBack_78 Start: 47102, Stop: 46782, Start Num: 103
Candidate Starts for BabyBack_78:
(Start: 103 @47102 has 12 MA's), (Start: 110 @47087 has 4 MA's), (118, 47069), (120, 47063), (Start: 124 @47054 has 2 MA's), (129, 47042), (158, 46934), (161, 46898), (166, 46868),

Gene: BabyRay_78 Start: 45607, Stop: 45326, Start Num: 109
Candidate Starts for BabyRay_78:
(Start: 109 @45607 has 105 MA's), (162, 45406),

Gene: Bachome_82 Start: 45718, Stop: 45422, Start Num: 97
Candidate Starts for Bachome_82:
(Start: 97 @45718 has 26 MA's), (106, 45709), (120, 45679), (Start: 124 @45670 has 2 MA's), (154, 45580),

Gene: Backyardigan_72 Start: 45744, Stop: 45427, Start Num: 62
Candidate Starts for Backyardigan_72:
(Start: 61 @45747 has 2 MA's), (Start: 62 @45744 has 13 MA's), (68, 45729), (Start: 94 @45693 has 17 MA's), (Start: 123 @45678 has 3 MA's), (134, 45639), (149, 45606),

Gene: BaconJack_78 Start: 48829, Stop: 48530, Start Num: 83
Candidate Starts for BaconJack_78:
(Start: 67 @48859 has 1 MA's), (Start: 83 @48829 has 208 MA's), (118, 48784), (119, 48781), (146, 48712),

Gene: Bactobuster_74 Start: 46579, Stop: 46271, Start Num: 88
Candidate Starts for Bactobuster_74:

(Start: 88 @46579 has 121 MA's), (117, 46537), (134, 46477),

Gene: Badger_73 Start: 45691, Stop: 45395, Start Num: 71
Candidate Starts for Badger_73:
(Start: 61 @45712 has 2 MA's), (Start: 62 @45709 has 13 MA's), (Start: 71 @45691 has 2 MA's), (74, 45688), (Start: 94 @45658 has 17 MA's), (Start: 123 @45646 has 3 MA's), (134, 45607), (149, 45574),

Gene: Baehexic_82 Start: 47345, Stop: 47034, Start Num: 100
Candidate Starts for Baehexic_82:
(Start: 100 @47345 has 33 MA's), (108, 47333), (121, 47303), (Start: 124 @47297 has 2 MA's), (130, 47282),

Gene: BangNhom_72 Start: 46084, Stop: 45785, Start Num: 88
Candidate Starts for BangNhom_72:
(Start: 88 @46084 has 121 MA's), (117, 46042),

Gene: Barriga_83 Start: 47568, Stop: 47269, Start Num: 83
Candidate Starts for Barriga_83:
(22, 47775), (24, 47748), (29, 47706), (30, 47703), (36, 47676), (43, 47664), (46, 47655), (52, 47640), (75, 47586), (Start: 83 @47568 has 208 MA's), (118, 47523), (119, 47520), (146, 47451), (157, 47400),

Gene: BarrowTuph_79 Start: 47875, Stop: 47576, Start Num: 83
Candidate Starts for BarrowTuph_79:
(Start: 67 @47905 has 1 MA's), (Start: 83 @47875 has 208 MA's), (118, 47830), (119, 47827), (146, 47758), (157, 47707),

Gene: Bartimeaus_75 Start: 45649, Stop: 45350, Start Num: 88
Candidate Starts for Bartimeaus_75:
(Start: 88 @45649 has 121 MA's), (117, 45607),

Gene: Beatrix_73 Start: 46834, Stop: 46535, Start Num: 83
Candidate Starts for Beatrix_73:
(58, 46894), (Start: 83 @46834 has 208 MA's), (118, 46789), (119, 46786), (146, 46717), (157, 46666),

Gene: Beauxregard13_79 Start: 45631, Stop: 45368, Start Num: 109
Candidate Starts for Beauxregard13_79:
(73, 45694), (Start: 80 @45676 has 2 MA's), (Start: 109 @45631 has 105 MA's), (118, 45610),

Gene: Beemo_87 Start: 47921, Stop: 47658, Start Num: 114
Candidate Starts for Beemo_87:
(Start: 99 @47939 has 25 MA's), (Start: 114 @47921 has 17 MA's), (Start: 123 @47900 has 3 MA's), (154, 47804),

Gene: BeesKnees_77 Start: 45937, Stop: 45638, Start Num: 83
Candidate Starts for BeesKnees_77:
(58, 45997), (Start: 83 @45937 has 208 MA's), (118, 45892), (119, 45889), (146, 45820), (157, 45769),

Gene: Bellris_84 Start: 47439, Stop: 47188, Start Num: 114
Candidate Starts for Bellris_84:
(Start: 99 @47457 has 25 MA's), (Start: 114 @47439 has 17 MA's), (Start: 123 @47418 has 3 MA's),

Gene: BellusTerra_76 Start: 45688, Stop: 45389, Start Num: 88
Candidate Starts for BellusTerra_76:

(Start: 88 @45688 has 121 MA's), (117, 45646),

Gene: Benedict_74 Start: 44660, Stop: 44376, Start Num: 109
Candidate Starts for Benedict_74:
(Start: 97 @44672 has 26 MA's), (Start: 109 @44660 has 105 MA's), (120, 44633), (154, 44528), (157, 44504),

Gene: BengiVuitton_85 Start: 47823, Stop: 47497, Start Num: 98
Candidate Starts for BengiVuitton_85:
(Start: 91 @47826 has 2 MA's), (Start: 98 @47823 has 19 MA's), (Start: 110 @47802 has 4 MA's), (Start: 124 @47772 has 2 MA's), (130, 47757), (143, 47715),

Gene: BennyP_83 Start: 45632, Stop: 45381, Start Num: 141
Candidate Starts for BennyP_83:
(25, 45944), (35, 45887), (37, 45884), (56, 45839), (115, 45716), (Start: 138 @45644 has 22 MA's), (141, 45632), (144, 45626), (153, 45587),

Gene: Benvolio_82 Start: 47539, Stop: 47231, Start Num: 98
Candidate Starts for Benvolio_82:
(8, 48016), (12, 47887), (23, 47737), (50, 47632), (Start: 98 @47539 has 19 MA's), (Start: 100 @47536 has 33 MA's), (121, 47494), (Start: 124 @47488 has 2 MA's), (166, 47314),

Gene: Bethlehem_79 Start: 49714, Stop: 49415, Start Num: 83
Candidate Starts for Bethlehem_79:
(Start: 67 @49744 has 1 MA's), (Start: 83 @49714 has 208 MA's), (118, 49669), (119, 49666), (146, 49597), (157, 49546),

Gene: Bexan_71 Start: 46608, Stop: 46309, Start Num: 83
Candidate Starts for Bexan_71:
(58, 46668), (Start: 83 @46608 has 208 MA's), (118, 46563), (119, 46560), (146, 46491), (157, 46440),

Gene: BiancaTri92_81 Start: 47402, Stop: 47094, Start Num: 98
Candidate Starts for BiancaTri92_81:
(55, 47492), (Start: 98 @47402 has 19 MA's), (Start: 100 @47399 has 33 MA's), (121, 47357), (130, 47336),

Gene: Big3_77 Start: 48641, Stop: 48342, Start Num: 83
Candidate Starts for Big3_77:
(75, 48659), (Start: 83 @48641 has 208 MA's), (118, 48596), (119, 48593), (146, 48524), (157, 48473),

Gene: BigMau_79 Start: 48424, Stop: 48125, Start Num: 83
Candidate Starts for BigMau_79:
(58, 48484), (Start: 83 @48424 has 208 MA's), (118, 48379), (119, 48376), (146, 48307), (157, 48256),

Gene: BigPaolini_74 Start: 45813, Stop: 45508, Start Num: 79
Candidate Starts for BigPaolini_74:
(Start: 79 @45813 has 2 MA's), (Start: 83 @45807 has 208 MA's), (118, 45762), (119, 45759), (146, 45690), (157, 45639),

Gene: Bigchungi_77 Start: 48249, Stop: 47950, Start Num: 83
Candidate Starts for Bigchungi_77:
(58, 48309), (Start: 83 @48249 has 208 MA's), (118, 48204), (119, 48201), (146, 48132), (157, 48081),

Gene: Bigflo_77 Start: 45627, Stop: 45364, Start Num: 109
Candidate Starts for Bigflo_77:
(73, 45690), (Start: 80 @45672 has 2 MA's), (Start: 109 @45627 has 105 MA's), (118, 45606),

Gene: Bigfoot_71 Start: 46904, Stop: 46605, Start Num: 83
Candidate Starts for Bigfoot_71:
(58, 46964), (Start: 83 @46904 has 208 MA's), (118, 46859), (119, 46856), (146, 46787), (157, 46736),

Gene: BillKnuckles_70 Start: 46811, Stop: 46512, Start Num: 83
Candidate Starts for BillKnuckles_70:
(58, 46871), (Start: 83 @46811 has 208 MA's), (118, 46766), (119, 46763), (146, 46694), (157, 46643),

Gene: Bircsak_77 Start: 49499, Stop: 49200, Start Num: 83
Candidate Starts for Bircsak_77:
(58, 49559), (Start: 83 @49499 has 208 MA's), (118, 49454), (119, 49451), (146, 49382), (157, 49331),

Gene: Blackflame_72 Start: 47047, Stop: 46748, Start Num: 83
Candidate Starts for Blackflame_72:
(Start: 83 @47047 has 208 MA's), (118, 47002), (119, 46999), (146, 46930), (157, 46879),

Gene: Blackmoor_74 Start: 45649, Stop: 45350, Start Num: 88
Candidate Starts for Blackmoor_74:
(Start: 88 @45649 has 121 MA's), (117, 45607),

Gene: BlessJoy_84 Start: 46000, Stop: 45737, Start Num: 138
Candidate Starts for BlessJoy_84:
(25, 46300), (35, 46243), (37, 46240), (56, 46195), (115, 46072), (Start: 138 @46000 has 22 MA's),
(141, 45988), (144, 45982), (153, 45943),

Gene: Blesser_70 Start: 45160, Stop: 44861, Start Num: 83
Candidate Starts for Blesser_70:
(77, 45169), (Start: 83 @45160 has 208 MA's), (118, 45115), (119, 45112), (146, 45043), (157, 44992),

Gene: Blinn1_87 Start: 46595, Stop: 46263, Start Num: 66
Candidate Starts for Blinn1_87:
(30, 46697), (41, 46667), (64, 46601), (Start: 66 @46595 has 1 MA's), (Start: 94 @46553 has 17 MA's),
(Start: 124 @46508 has 2 MA's), (Start: 126 @46502 has 1 MA's), (128, 46499), (131, 46490),

Gene: BluSpix_74 Start: 42363, Stop: 42064, Start Num: 83
Candidate Starts for BluSpix_74:
(Start: 67 @42393 has 1 MA's), (Start: 83 @42363 has 208 MA's), (118, 42318), (119, 42315), (146,
42246), (157, 42195),

Gene: Blue_73 Start: 46715, Stop: 46416, Start Num: 83
Candidate Starts for Blue_73:
(58, 46775), (Start: 83 @46715 has 208 MA's), (118, 46670), (119, 46667), (146, 46598), (157, 46547),

Gene: Blue7_85 Start: 45698, Stop: 45435, Start Num: 138
Candidate Starts for Blue7_85:
(25, 45998), (35, 45941), (37, 45938), (56, 45893), (115, 45770), (Start: 138 @45698 has 22 MA's),
(141, 45686), (144, 45680), (153, 45641),

Gene: BlueBird_81 Start: 46036, Stop: 45764, Start Num: 109

Candidate Starts for BlueBird_81:
(Start: 109 @46036 has 105 MA's),

Gene: Bluefalcon_66 Start: 44078, Stop: 43782, Start Num: 92
Candidate Starts for Bluefalcon_66:
(60, 44150), (Start: 80 @44099 has 2 MA's), (85, 44090), (Start: 92 @44078 has 7 MA's), (Start: 97 @44072 has 26 MA's), (119, 44036), (Start: 124 @44024 has 2 MA's),

Gene: Bob3_77 Start: 47691, Stop: 47392, Start Num: 83
Candidate Starts for Bob3_77:
(58, 47751), (Start: 83 @47691 has 208 MA's), (118, 47646), (119, 47643), (146, 47574), (157, 47523),

Gene: BobSwaget_77 Start: 45351, Stop: 45037, Start Num: 81
Candidate Starts for BobSwaget_77:
(Start: 81 @45351 has 4 MA's), (Start: 114 @45324 has 17 MA's), (118, 45315),

Gene: BogosyJay_86 Start: 47989, Stop: 47711, Start Num: 99
Candidate Starts for BogosyJay_86:
(Start: 99 @47989 has 25 MA's), (Start: 123 @47950 has 3 MA's),

Gene: Bombshell_75 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for Bombshell_75:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: Bonamassa_70 Start: 44301, Stop: 43999, Start Num: 90
Candidate Starts for Bonamassa_70:
(Start: 90 @44301 has 6 MA's), (111, 44274), (Start: 114 @44268 has 17 MA's), (160, 44115),

Gene: Bones_72 Start: 46997, Stop: 46698, Start Num: 83
Candidate Starts for Bones_72:
(58, 47057), (Start: 83 @46997 has 208 MA's), (118, 46952), (119, 46949), (146, 46880), (157, 46829),

Gene: Bowtie_81 Start: 45445, Stop: 45149, Start Num: 97
Candidate Starts for Bowtie_81:
(Start: 97 @45445 has 26 MA's), (106, 45436), (108, 45433), (120, 45406), (Start: 124 @45397 has 2 MA's), (154, 45307),

Gene: Bradman_86 Start: 46814, Stop: 46539, Start Num: 101
Candidate Starts for Bradman_86:
(21, 47063), (Start: 101 @46814 has 17 MA's), (Start: 116 @46793 has 1 MA's), (120, 46781),

Gene: BreSam8_80 Start: 45666, Stop: 45358, Start Num: 80
Candidate Starts for BreSam8_80:
(73, 45684), (Start: 80 @45666 has 2 MA's), (Start: 109 @45621 has 105 MA's),

Gene: Briton15_79 Start: 48077, Stop: 47778, Start Num: 83
Candidate Starts for Briton15_79:
(58, 48137), (Start: 83 @48077 has 208 MA's), (118, 48032), (119, 48029), (146, 47960), (157, 47909),

Gene: Broseidon_75 Start: 45650, Stop: 45351, Start Num: 88
Candidate Starts for Broseidon_75:
(Start: 88 @45650 has 121 MA's), (117, 45608),

Gene: Bruiser_74 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for Bruiser_74:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: Bruns_79 Start: 46940, Stop: 46641, Start Num: 83
Candidate Starts for Bruns_79:
(58, 47000), (Start: 83 @46940 has 208 MA's), (118, 46895), (119, 46892), (146, 46823), (157, 46772),

Gene: BubbleTrouble_74 Start: 45674, Stop: 45375, Start Num: 88
Candidate Starts for BubbleTrouble_74:
(Start: 88 @45674 has 121 MA's), (117, 45632),

Gene: Bud_79 Start: 45275, Stop: 44979, Start Num: 97
Candidate Starts for Bud_79:
(Start: 97 @45275 has 26 MA's), (106, 45266), (108, 45263), (120, 45236), (Start: 124 @45227 has 2 MA's), (154, 45137),

Gene: Bugatti_79 Start: 46036, Stop: 45764, Start Num: 109
Candidate Starts for Bugatti_79:
(Start: 109 @46036 has 105 MA's),

Gene: Bumblebee11_73 Start: 45711, Stop: 45397, Start Num: 61
Candidate Starts for Bumblebee11_73:
(Start: 61 @45711 has 2 MA's), (Start: 62 @45708 has 13 MA's), (Start: 71 @45690 has 2 MA's), (74, 45687), (Start: 94 @45657 has 17 MA's), (Start: 123 @45645 has 3 MA's), (134, 45606), (149, 45573),

Gene: Burger_73 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for Burger_73:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: Burton_77 Start: 49106, Stop: 48807, Start Num: 83
Candidate Starts for Burton_77:
(Start: 67 @49136 has 1 MA's), (Start: 83 @49106 has 208 MA's), (118, 49061), (119, 49058), (146, 48989), (157, 48938),

Gene: Buttons_73 Start: 45207, Stop: 44908, Start Num: 83
Candidate Starts for Buttons_73:
(Start: 83 @45207 has 208 MA's), (118, 45162), (119, 45159), (146, 45090), (157, 45039),

Gene: BuzzBuzz_74 Start: 45656, Stop: 45393, Start Num: 109
Candidate Starts for BuzzBuzz_74:
(73, 45719), (Start: 80 @45701 has 2 MA's), (Start: 109 @45656 has 105 MA's), (118, 45635),

Gene: Bxb1_70 Start: 45323, Stop: 45024, Start Num: 83
Candidate Starts for Bxb1_70:
(Start: 83 @45323 has 208 MA's), (118, 45278), (119, 45275), (146, 45206), (157, 45155),

Gene: Bxz2_75 Start: 45663, Stop: 45400, Start Num: 109
Candidate Starts for Bxz2_75:
(73, 45726), (Start: 80 @45708 has 2 MA's), (Start: 109 @45663 has 105 MA's), (118, 45642),

Gene: C3_75 Start: 46132, Stop: 45854, Start Num: 101
Candidate Starts for C3_75:

(Start: 101 @46132 has 17 MA's), (120, 46099), (Start: 123 @46093 has 3 MA's), (160, 45958),

Gene: CRB1_84 Start: 47974, Stop: 47651, Start Num: 91
Candidate Starts for CRB1_84:
(Start: 91 @47974 has 2 MA's), (130, 47908), (143, 47866),

Gene: CactusRose_79 Start: 47921, Stop: 47622, Start Num: 83
Candidate Starts for CactusRose_79:
(58, 47981), (Start: 83 @47921 has 208 MA's), (118, 47876), (119, 47873), (146, 47804), (157, 47753),

Gene: Caelakin_73 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for Caelakin_73:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: Calvinny_77 Start: 45439, Stop: 45176, Start Num: 109
Candidate Starts for Calvinny_77:
(73, 45502), (Start: 80 @45484 has 2 MA's), (Start: 109 @45439 has 105 MA's), (118, 45418),

Gene: Camperdownii_73 Start: 45334, Stop: 45020, Start Num: 62
Candidate Starts for Camperdownii_73:
(Start: 61 @45337 has 2 MA's), (Start: 62 @45334 has 13 MA's), (Start: 71 @45316 has 2 MA's), (74, 45313), (Start: 123 @45271 has 3 MA's), (134, 45232),

Gene: Candra_81 Start: 45632, Stop: 45300, Start Num: 66
Candidate Starts for Candra_81:
(30, 45734), (41, 45704), (64, 45638), (Start: 66 @45632 has 1 MA's), (Start: 94 @45590 has 17 MA's), (Start: 123 @45548 has 3 MA's), (Start: 124 @45545 has 2 MA's), (Start: 126 @45539 has 1 MA's), (128, 45536), (131, 45527), (149, 45470), (152, 45455),

Gene: Carlyle_77 Start: 46395, Stop: 46096, Start Num: 83
Candidate Starts for Carlyle_77:
(58, 46455), (Start: 83 @46395 has 208 MA's), (118, 46350), (119, 46347), (146, 46278), (157, 46227),

Gene: CartmannCramer_72 Start: 47850, Stop: 47551, Start Num: 83
Candidate Starts for CartmannCramer_72:
(Start: 67 @47880 has 1 MA's), (Start: 83 @47850 has 208 MA's), (118, 47805), (119, 47802), (146, 47733), (150, 47721), (157, 47682),

Gene: CatBus_68 Start: 45532, Stop: 45233, Start Num: 83
Candidate Starts for CatBus_68:
(Start: 83 @45532 has 208 MA's), (118, 45487), (119, 45484), (146, 45415), (157, 45364),

Gene: Catalina_89 Start: 48034, Stop: 47768, Start Num: 114
Candidate Starts for Catalina_89:
(Start: 99 @48052 has 25 MA's), (Start: 114 @48034 has 17 MA's), (Start: 123 @48013 has 3 MA's), (154, 47917),

Gene: Centaur_83 Start: 47223, Stop: 46912, Start Num: 100
Candidate Starts for Centaur_83:
(Start: 100 @47223 has 33 MA's), (108, 47211), (121, 47181), (Start: 124 @47175 has 2 MA's), (130, 47160),

Gene: CentreCat_75 Start: 45687, Stop: 45388, Start Num: 88

Candidate Starts for CentreCat_75:
(Start: 88 @45687 has 121 MA's), (117, 45645),

Gene: Cerulean_77 Start: 46085, Stop: 45786, Start Num: 88
Candidate Starts for Cerulean_77:
(Start: 88 @46085 has 121 MA's), (117, 46043),

Gene: Chadwick_74 Start: 44404, Stop: 44120, Start Num: 109
Candidate Starts for Chadwick_74:
(Start: 97 @44416 has 26 MA's), (Start: 109 @44404 has 105 MA's), (120, 44377), (154, 44272), (157, 44248),

Gene: ChampagnePapi_78 Start: 46087, Stop: 45785, Start Num: 88
Candidate Starts for ChampagnePapi_78:
(Start: 88 @46087 has 121 MA's), (117, 46045), (149, 45967),

Gene: Chanagan_73 Start: 45356, Stop: 45057, Start Num: 83
Candidate Starts for Chanagan_73:
(58, 45416), (Start: 83 @45356 has 208 MA's), (118, 45311), (119, 45308), (146, 45239), (157, 45188),

Gene: Changeling_82 Start: 47917, Stop: 47612, Start Num: 103
Candidate Starts for Changeling_82:
(Start: 103 @47917 has 12 MA's), (Start: 109 @47905 has 105 MA's), (Start: 110 @47902 has 4 MA's), (111, 47899), (121, 47878), (130, 47857),

Gene: Chaph_75 Start: 45658, Stop: 45359, Start Num: 88
Candidate Starts for Chaph_75:
(Start: 88 @45658 has 121 MA's), (117, 45616),

Gene: Chargerpower_83 Start: 45994, Stop: 45686, Start Num: 101
Candidate Starts for Chargerpower_83:
(21, 46240), (Start: 101 @45994 has 17 MA's), (125, 45949), (127, 45946), (154, 45856),

Gene: Charm_82 Start: 47297, Stop: 47064, Start Num: 124
Candidate Starts for Charm_82:
(21, 47579), (Start: 99 @47333 has 25 MA's), (Start: 124 @47297 has 2 MA's),

Gene: Chartreuse_82 Start: 44901, Stop: 44611, Start Num: 94
Candidate Starts for Chartreuse_82:
(30, 45045), (41, 45015), (64, 44949), (Start: 66 @44943 has 1 MA's), (Start: 94 @44901 has 17 MA's), (Start: 123 @44859 has 3 MA's), (Start: 124 @44856 has 2 MA's), (Start: 126 @44850 has 1 MA's), (128, 44847), (131, 44838), (149, 44781),

Gene: ChipMunk_84 Start: 48884, Stop: 48579, Start Num: 98
Candidate Starts for ChipMunk_84:
(Start: 98 @48884 has 19 MA's), (121, 48845), (Start: 124 @48839 has 2 MA's), (166, 48665),

Gene: ChristmasHams_67 Start: 43552, Stop: 43253, Start Num: 83
Candidate Starts for ChristmasHams_67:
(Start: 79 @43558 has 2 MA's), (Start: 83 @43552 has 208 MA's), (118, 43507), (119, 43504), (146, 43435), (157, 43384),

Gene: Chupacabra_80 Start: 48379, Stop: 48086, Start Num: 96

Candidate Starts for Chupacabra_80:
(11, 48739), (18, 48643), (Start: 96 @48379 has 15 MA's), (128, 48325),

Gene: Ciao_73 Start: 45516, Stop: 45217, Start Num: 83
Candidate Starts for Ciao_73:
(58, 45576), (Start: 83 @45516 has 208 MA's), (118, 45471), (119, 45468), (146, 45399), (157, 45348),

Gene: Cici_74 Start: 45723, Stop: 45412, Start Num: 62
Candidate Starts for Cici_74:
(Start: 61 @45726 has 2 MA's), (Start: 62 @45723 has 13 MA's), (Start: 71 @45705 has 2 MA's), (74, 45702), (Start: 94 @45672 has 17 MA's), (Start: 123 @45660 has 3 MA's), (134, 45621), (149, 45588),

Gene: Cindaradix_70 Start: 45542, Stop: 45246, Start Num: 86
Candidate Starts for Cindaradix_70:
(Start: 86 @45542 has 4 MA's), (Start: 116 @45521 has 1 MA's), (Start: 123 @45503 has 3 MA's),

Gene: Cintron_76 Start: 45786, Stop: 45499, Start Num: 96
Candidate Starts for Cintron_76:
(20, 46035), (40, 45912), (76, 45819), (Start: 84 @45804 has 1 MA's), (Start: 86 @45801 has 4 MA's), (Start: 96 @45786 has 15 MA's),

Gene: Citius_75 Start: 45668, Stop: 45369, Start Num: 88
Candidate Starts for Citius_75:
(Start: 88 @45668 has 121 MA's), (117, 45626),

Gene: Clammy_79 Start: 46036, Stop: 45764, Start Num: 109
Candidate Starts for Clammy_79:
(Start: 109 @46036 has 105 MA's),

Gene: Clarenza_74 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for Clarenza_74:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: CloudWang3_84 Start: 46008, Stop: 45697, Start Num: 138
Candidate Starts for CloudWang3_84:
(13, 46461), (34, 46254), (37, 46248), (115, 46080), (Start: 138 @46008 has 22 MA's), (140, 45990), (141, 45987), (142, 45984), (145, 45972), (147, 45966), (148, 45963), (153, 45942), (159, 45906),

Gene: ClownCar_77 Start: 45434, Stop: 45171, Start Num: 109
Candidate Starts for ClownCar_77:
(73, 45497), (Start: 80 @45479 has 2 MA's), (Start: 109 @45434 has 105 MA's), (118, 45413),

Gene: Cocoaberry_75 Start: 45648, Stop: 45349, Start Num: 88
Candidate Starts for Cocoaberry_75:
(Start: 88 @45648 has 121 MA's), (117, 45606),

Gene: CogOmlette_84 Start: 47436, Stop: 47185, Start Num: 114
Candidate Starts for CogOmlette_84:
(Start: 99 @47454 has 25 MA's), (Start: 114 @47436 has 17 MA's), (Start: 123 @47415 has 3 MA's),

Gene: Colbster_76 Start: 45631, Stop: 45368, Start Num: 109
Candidate Starts for Colbster_76:
(73, 45694), (Start: 80 @45676 has 2 MA's), (Start: 109 @45631 has 105 MA's), (118, 45610),

Gene: Colin_82 Start: 48298, Stop: 47996, Start Num: 100
Candidate Starts for Colin_82:
(Start: 100 @48298 has 33 MA's),

Gene: Commander_73 Start: 45645, Stop: 45346, Start Num: 88
Candidate Starts for Commander_73:
(Start: 88 @45645 has 121 MA's), (117, 45603),

Gene: ConceptII_81 Start: 48948, Stop: 48649, Start Num: 83
Candidate Starts for ConceptII_81:
(Start: 79 @48954 has 2 MA's), (Start: 83 @48948 has 208 MA's), (118, 48903), (119, 48900), (146, 48831), (157, 48780),

Gene: Connomayer_75 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for Connomayer_75:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: Conquerage_85 Start: 47696, Stop: 47433, Start Num: 114
Candidate Starts for Conquerage_85:
(Start: 99 @47714 has 25 MA's), (Start: 114 @47696 has 17 MA's), (Start: 123 @47675 has 3 MA's), (154, 47579),

Gene: Conspiracy_71 Start: 44353, Stop: 44057, Start Num: 95
Candidate Starts for Conspiracy_71:
(Start: 95 @44353 has 11 MA's), (111, 44332), (160, 44173),

Gene: Coog_67 Start: 44122, Stop: 43820, Start Num: 90
Candidate Starts for Coog_67:
(Start: 90 @44122 has 6 MA's), (121, 44071), (Start: 123 @44068 has 3 MA's), (156, 43960), (160, 43936),

Gene: Cookiedough_83 Start: 46208, Stop: 45918, Start Num: 94
Candidate Starts for Cookiedough_83:
(30, 46352), (41, 46322), (64, 46256), (Start: 66 @46250 has 1 MA's), (Start: 94 @46208 has 17 MA's), (Start: 123 @46166 has 3 MA's), (Start: 124 @46163 has 2 MA's), (Start: 126 @46157 has 1 MA's), (128, 46154), (131, 46145), (149, 46088),

Gene: Corvo_78 Start: 48597, Stop: 48298, Start Num: 83
Candidate Starts for Corvo_78:
(Start: 67 @48627 has 1 MA's), (Start: 83 @48597 has 208 MA's), (118, 48552), (119, 48549), (146, 48480), (157, 48429),

Gene: Crispicous1_71 Start: 45038, Stop: 44739, Start Num: 83
Candidate Starts for Crispicous1_71:
(58, 45098), (Start: 83 @45038 has 208 MA's), (118, 44993), (119, 44990), (146, 44921), (157, 44870),

Gene: Croquant_77 Start: 45628, Stop: 45365, Start Num: 109
Candidate Starts for Croquant_77:
(73, 45691), (Start: 80 @45673 has 2 MA's), (Start: 109 @45628 has 105 MA's), (118, 45607),

Gene: Crucio_83 Start: 47825, Stop: 47466, Start Num: 100
Candidate Starts for Crucio_83:

(Start: 100 @47825 has 33 MA's), (Start: 124 @47777 has 2 MA's), (130, 47762), (166, 47552),

Gene: Cuco_69 Start: 43982, Stop: 43680, Start Num: 90
Candidate Starts for Cuco_69:
(Start: 90 @43982 has 6 MA's), (121, 43931), (Start: 123 @43928 has 3 MA's), (156, 43820), (160, 43796),

Gene: Cullens_81 Start: 45630, Stop: 45367, Start Num: 109
Candidate Starts for Cullens_81:
(73, 45693), (Start: 80 @45675 has 2 MA's), (Start: 109 @45630 has 105 MA's), (118, 45609),

Gene: DBQu4n_83 Start: 47177, Stop: 46899, Start Num: 101
Candidate Starts for DBQu4n_83:
(Start: 101 @47177 has 17 MA's), (120, 47144), (Start: 123 @47138 has 3 MA's), (160, 47003),

Gene: DD5_74 Start: 47123, Stop: 46824, Start Num: 83
Candidate Starts for DD5_74:
(58, 47183), (Start: 83 @47123 has 208 MA's), (118, 47078), (119, 47075), (146, 47006), (157, 46955),

Gene: DaHudson_79 Start: 45620, Stop: 45357, Start Num: 109
Candidate Starts for DaHudson_79:
(73, 45683), (Start: 80 @45665 has 2 MA's), (Start: 109 @45620 has 105 MA's),

Gene: DaVinci_81 Start: 44955, Stop: 44665, Start Num: 94
Candidate Starts for DaVinci_81:
(30, 45099), (41, 45069), (64, 45003), (Start: 66 @44997 has 1 MA's), (Start: 94 @44955 has 17 MA's), (Start: 123 @44913 has 3 MA's), (Start: 124 @44910 has 2 MA's), (Start: 126 @44904 has 1 MA's), (128, 44901), (131, 44892), (149, 44835),

Gene: Daishi_79 Start: 44497, Stop: 44234, Start Num: 109
Candidate Starts for Daishi_79:
(73, 44560), (Start: 80 @44542 has 2 MA's), (Start: 109 @44497 has 105 MA's), (118, 44476),

Gene: Dalmatian_83 Start: 47647, Stop: 47291, Start Num: 100
Candidate Starts for Dalmatian_83:
(Start: 100 @47647 has 33 MA's), (Start: 124 @47602 has 2 MA's), (130, 47587), (166, 47377),

Gene: Darrell_85 Start: 47142, Stop: 46864, Start Num: 99
Candidate Starts for Darrell_85:
(Start: 99 @47142 has 25 MA's), (Start: 114 @47124 has 17 MA's), (Start: 123 @47103 has 3 MA's),

Gene: DarthPhader_78 Start: 46974, Stop: 46699, Start Num: 99
Candidate Starts for DarthPhader_78:
(39, 47103), (54, 47070), (57, 47061), (Start: 99 @46974 has 25 MA's), (Start: 114 @46953 has 17 MA's), (Start: 124 @46929 has 2 MA's), (130, 46917),

Gene: Datway_74 Start: 45727, Stop: 45410, Start Num: 62
Candidate Starts for Datway_74:
(Start: 61 @45730 has 2 MA's), (Start: 62 @45727 has 13 MA's), (68, 45712), (Start: 94 @45676 has 17 MA's), (Start: 123 @45661 has 3 MA's), (134, 45622), (149, 45589),

Gene: Deano_72 Start: 45655, Stop: 45356, Start Num: 88
Candidate Starts for Deano_72:

(Start: 88 @45655 has 121 MA's), (117, 45613),

Gene: DeerParkTS_79 Start: 46270, Stop: 45959, Start Num: 98
Candidate Starts for DeerParkTS_79:
(Start: 98 @46270 has 19 MA's), (Start: 103 @46267 has 12 MA's), (121, 46228), (Start: 123 @46225 has 3 MA's), (143, 46165),

Gene: Deloris_85 Start: 47519, Stop: 47190, Start Num: 91
Candidate Starts for Deloris_85:
(Start: 91 @47519 has 2 MA's), (Start: 98 @47516 has 19 MA's), (Start: 110 @47495 has 4 MA's), (Start: 124 @47465 has 2 MA's), (130, 47450), (143, 47408),

Gene: DelvinSonDorr_79 Start: 45571, Stop: 45323, Start Num: 123
Candidate Starts for DelvinSonDorr_79:
(Start: 94 @45613 has 17 MA's), (Start: 123 @45571 has 3 MA's), (Start: 124 @45568 has 2 MA's), (Start: 126 @45562 has 1 MA's), (128, 45559), (131, 45550), (149, 45493),

Gene: Dexes_77 Start: 49539, Stop: 49240, Start Num: 83
Candidate Starts for Dexes_77:
(22, 49746), (24, 49719), (29, 49677), (30, 49674), (36, 49647), (43, 49635), (46, 49626), (52, 49611), (75, 49557), (Start: 83 @49539 has 208 MA's), (118, 49494), (119, 49491), (146, 49422), (157, 49371),

Gene: Dhanush_75 Start: 45650, Stop: 45351, Start Num: 88
Candidate Starts for Dhanush_75:
(Start: 88 @45650 has 121 MA's), (117, 45608),

Gene: Dieselweasel_81 Start: 45629, Stop: 45366, Start Num: 109
Candidate Starts for Dieselweasel_81:
(73, 45692), (Start: 80 @45674 has 2 MA's), (Start: 109 @45629 has 105 MA's), (118, 45608),

Gene: Dignity_85 Start: 48061, Stop: 47753, Start Num: 98
Candidate Starts for Dignity_85:
(Start: 98 @48061 has 19 MA's), (Start: 100 @48058 has 33 MA's), (Start: 124 @48010 has 2 MA's), (130, 47995), (166, 47836),

Gene: DirtDevil_70 Start: 45340, Stop: 45041, Start Num: 83
Candidate Starts for DirtDevil_70:
(Start: 83 @45340 has 208 MA's), (118, 45295), (119, 45292), (146, 45223), (157, 45172),

Gene: DirtyDunning_74 Start: 45659, Stop: 45360, Start Num: 88
Candidate Starts for DirtyDunning_74:
(Start: 88 @45659 has 121 MA's), (117, 45617),

Gene: Discoknowium_68 Start: 43870, Stop: 43574, Start Num: 95
Candidate Starts for Discoknowium_68:
(Start: 95 @43870 has 11 MA's), (111, 43849), (160, 43690),

Gene: DontArgue_78 Start: 47236, Stop: 46952, Start Num: 96
Candidate Starts for DontArgue_78:
(Start: 96 @47236 has 15 MA's),

Gene: Doom_69 Start: 45750, Stop: 45451, Start Num: 83
Candidate Starts for Doom_69:

(Start: 78 @45756 has 1 MA's), (Start: 83 @45750 has 208 MA's), (118, 45705), (119, 45702), (146, 45633), (157, 45582),

Gene: Dorothea_83 Start: 46201, Stop: 45911, Start Num: 94
Candidate Starts for Dorothea_83:
(30, 46345), (41, 46315), (64, 46249), (Start: 66 @46243 has 1 MA's), (Start: 94 @46201 has 17 MA's), (Start: 123 @46159 has 3 MA's), (Start: 124 @46156 has 2 MA's), (Start: 126 @46150 has 1 MA's), (128, 46147), (131, 46138), (149, 46081),

Gene: DrFeelGood_72 Start: 45126, Stop: 44827, Start Num: 83
Candidate Starts for DrFeelGood_72:
(Start: 67 @45156 has 1 MA's), (Start: 83 @45126 has 208 MA's), (118, 45081), (119, 45078), (146, 45009), (157, 44958),

Gene: Drake55_84 Start: 47474, Stop: 47163, Start Num: 100
Candidate Starts for Drake55_84:
(Start: 100 @47474 has 33 MA's), (108, 47462), (121, 47432), (Start: 124 @47426 has 2 MA's), (130, 47411),

Gene: Drake94_80 Start: 47533, Stop: 47246, Start Num: 96
Candidate Starts for Drake94_80:
(2, 48340), (3, 48319), (4, 48307), (11, 47893), (18, 47797), (Start: 96 @47533 has 15 MA's), (Start: 110 @47518 has 4 MA's), (120, 47500),

Gene: DreamCatcher_80 Start: 47927, Stop: 47628, Start Num: 83
Candidate Starts for DreamCatcher_80:
(58, 47987), (Start: 83 @47927 has 208 MA's), (118, 47882), (119, 47879), (146, 47810), (157, 47759),

Gene: DreamTeam1_82 Start: 47145, Stop: 46912, Start Num: 124
Candidate Starts for DreamTeam1_82:
(21, 47427), (Start: 99 @47181 has 25 MA's), (Start: 124 @47145 has 2 MA's),

Gene: Dreamboat_76 Start: 45409, Stop: 45110, Start Num: 83
Candidate Starts for Dreamboat_76:
(58, 45469), (Start: 83 @45409 has 208 MA's), (118, 45364), (119, 45361), (146, 45292), (157, 45241),

Gene: DroogsArmy_74 Start: 48703, Stop: 48410, Start Num: 103
Candidate Starts for DroogsArmy_74:
(33, 48850), (49, 48817), (Start: 103 @48703 has 12 MA's), (118, 48673), (130, 48643),

Gene: DropBear_77 Start: 45965, Stop: 45681, Start Num: 109
Candidate Starts for DropBear_77:
(Start: 109 @45965 has 105 MA's), (162, 45761),

Gene: Druantia_74 Start: 45650, Stop: 45351, Start Num: 88
Candidate Starts for Druantia_74:
(Start: 88 @45650 has 121 MA's),

Gene: Dublin_70 Start: 44258, Stop: 43959, Start Num: 92
Candidate Starts for Dublin_70:
(85, 44270), (Start: 92 @44258 has 7 MA's), (Start: 97 @44252 has 26 MA's), (119, 44216), (Start: 124 @44204 has 2 MA's), (154, 44114), (160, 44075),

Gene: DudeLittle_81 Start: 47365, Stop: 47060, Start Num: 100
Candidate Starts for DudeLittle_81:
(Start: 100 @47365 has 33 MA's), (Start: 124 @47320 has 2 MA's), (130, 47305), (143, 47263), (166, 47146),

Gene: Dulcie_77 Start: 49203, Stop: 48904, Start Num: 83
Candidate Starts for Dulcie_77:
(Start: 67 @49233 has 1 MA's), (Start: 83 @49203 has 208 MA's), (118, 49158), (119, 49155), (146, 49086), (157, 49035),

Gene: Duplo_84 Start: 47234, Stop: 46956, Start Num: 101
Candidate Starts for Duplo_84:
(Start: 101 @47234 has 17 MA's), (120, 47201), (Start: 123 @47195 has 3 MA's), (160, 47060),

Gene: Dussy_75 Start: 46788, Stop: 46489, Start Num: 83
Candidate Starts for Dussy_75:
(Start: 67 @46818 has 1 MA's), (Start: 83 @46788 has 208 MA's), (118, 46743), (119, 46740), (146, 46671), (157, 46620),

Gene: DustyMartin_86 Start: 48631, Stop: 48341, Start Num: 96
Candidate Starts for DustyMartin_86:
(Start: 96 @48631 has 15 MA's),

Gene: Dynamix_76 Start: 45843, Stop: 45544, Start Num: 83
Candidate Starts for Dynamix_76:
(58, 45903), (Start: 83 @45843 has 208 MA's), (118, 45798), (119, 45795), (146, 45726), (157, 45675),

Gene: EZMoney23_79 Start: 46912, Stop: 46625, Start Num: 110
Candidate Starts for EZMoney23_79:
(19, 47167), (Start: 100 @46927 has 33 MA's), (Start: 110 @46912 has 4 MA's), (111, 46909), (121, 46888),

Gene: Eagle_74 Start: 45709, Stop: 45410, Start Num: 88
Candidate Starts for Eagle_74:
(Start: 88 @45709 has 121 MA's),

Gene: EagleEye_83 Start: 46835, Stop: 46572, Start Num: 99
Candidate Starts for EagleEye_83:
(6, 47399), (21, 47081), (Start: 99 @46835 has 25 MA's), (Start: 123 @46799 has 3 MA's), (Start: 124 @46796 has 2 MA's),

Gene: Eaglepride_86 Start: 48465, Stop: 48175, Start Num: 96
Candidate Starts for Eaglepride_86:
(Start: 96 @48465 has 15 MA's),

Gene: Eapen_75 Start: 45642, Stop: 45343, Start Num: 88
Candidate Starts for Eapen_75:
(54, 45714), (Start: 88 @45642 has 121 MA's), (117, 45600),

Gene: Ebony_84 Start: 46409, Stop: 46113, Start Num: 97
Candidate Starts for Ebony_84:
(Start: 97 @46409 has 26 MA's), (106, 46400), (120, 46370), (Start: 124 @46361 has 2 MA's), (154, 46271),

Gene: Echild_85 Start: 47560, Stop: 47255, Start Num: 100
Candidate Starts for Echild_85:
(8, 48040), (12, 47911), (23, 47761), (50, 47656), (Start: 98 @47563 has 19 MA's), (Start: 100 @47560 has 33 MA's), (121, 47518), (Start: 124 @47512 has 2 MA's), (166, 47338),

Gene: EdogawaKiddo_86 Start: 48016, Stop: 47735, Start Num: 99
Candidate Starts for EdogawaKiddo_86:
(Start: 99 @48016 has 25 MA's), (Start: 123 @47977 has 3 MA's), (154, 47881),

Gene: Edtherson_75 Start: 47019, Stop: 46720, Start Num: 83
Candidate Starts for Edtherson_75:
(58, 47079), (Start: 83 @47019 has 208 MA's), (118, 46974), (119, 46971), (146, 46902), (157, 46851),

Gene: Eidsmoe_85 Start: 47688, Stop: 47425, Start Num: 114
Candidate Starts for Eidsmoe_85:
(Start: 99 @47706 has 25 MA's), (Start: 114 @47688 has 17 MA's), (Start: 123 @47667 has 3 MA's), (154, 47571),

Gene: ElTiger69_76 Start: 45331, Stop: 45047, Start Num: 109
Candidate Starts for ElTiger69_76:
(Start: 97 @45343 has 26 MA's), (Start: 109 @45331 has 105 MA's), (120, 45304), (154, 45199), (157, 45175),

Gene: Elephantoon_87 Start: 47851, Stop: 47588, Start Num: 114
Candidate Starts for Elephantoon_87:
(Start: 99 @47869 has 25 MA's), (Start: 114 @47851 has 17 MA's), (Start: 123 @47830 has 3 MA's),

Gene: EmyBug_84 Start: 47708, Stop: 47427, Start Num: 99
Candidate Starts for EmyBug_84:
(Start: 99 @47708 has 25 MA's), (Start: 114 @47690 has 17 MA's), (Start: 123 @47669 has 3 MA's), (154, 47573),

Gene: EnzoK_77 Start: 45129, Stop: 44830, Start Num: 83
Candidate Starts for EnzoK_77:
(Start: 67 @45159 has 1 MA's), (Start: 83 @45129 has 208 MA's), (118, 45084), (119, 45081), (146, 45012), (157, 44961),

Gene: EpicPhail_81 Start: 45631, Stop: 45368, Start Num: 109
Candidate Starts for EpicPhail_81:
(73, 45694), (Start: 80 @45676 has 2 MA's), (Start: 109 @45631 has 105 MA's), (118, 45610),

Gene: Equemioh13_83 Start: 47452, Stop: 47141, Start Num: 100
Candidate Starts for Equemioh13_83:
(Start: 100 @47452 has 33 MA's), (108, 47440), (121, 47410), (Start: 124 @47404 has 2 MA's), (130, 47389),

Gene: EricB_82 Start: 45496, Stop: 45257, Start Num: 126
Candidate Starts for EricB_82:
(Start: 94 @45547 has 17 MA's), (Start: 123 @45505 has 3 MA's), (Start: 124 @45502 has 2 MA's), (Start: 126 @45496 has 1 MA's), (128, 45493), (131, 45484), (149, 45427),

Gene: Eris_74 Start: 45659, Stop: 45360, Start Num: 88

Candidate Starts for Eris_74:
(Start: 88 @45659 has 121 MA's), (117, 45617),

Gene: Eros_75 Start: 45649, Stop: 45350, Start Num: 88
Candidate Starts for Eros_75:
(Start: 88 @45649 has 121 MA's), (117, 45607),

Gene: Espresso_70 Start: 45691, Stop: 45392, Start Num: 83
Candidate Starts for Espresso_70:
(Start: 67 @45721 has 1 MA's), (Start: 83 @45691 has 208 MA's), (118, 45646), (119, 45643), (146, 45574), (157, 45523),

Gene: Et2Brutus_83 Start: 46372, Stop: 46076, Start Num: 97
Candidate Starts for Et2Brutus_83:
(Start: 97 @46372 has 26 MA's), (106, 46363), (120, 46333), (Start: 124 @46324 has 2 MA's), (154, 46234),

Gene: EtoileNova_77 Start: 46002, Stop: 45724, Start Num: 109
Candidate Starts for EtoileNova_77:
(Start: 91 @46023 has 2 MA's), (Start: 107 @46005 has 7 MA's), (Start: 109 @46002 has 105 MA's),

Gene: Euphoria_77 Start: 47608, Stop: 47309, Start Num: 83
Candidate Starts for Euphoria_77:
(Start: 67 @47638 has 1 MA's), (Start: 83 @47608 has 208 MA's), (118, 47563), (119, 47560), (146, 47491),

Gene: Eurydice_76 Start: 45684, Stop: 45385, Start Num: 88
Candidate Starts for Eurydice_76:
(Start: 88 @45684 has 121 MA's), (117, 45642),

Gene: EvilGenius_83 Start: 48885, Stop: 48580, Start Num: 98
Candidate Starts for EvilGenius_83:
(Start: 98 @48885 has 19 MA's), (121, 48846), (Start: 124 @48840 has 2 MA's), (166, 48666),

Gene: ExplosioNervosa_85 Start: 47756, Stop: 47493, Start Num: 114
Candidate Starts for ExplosioNervosa_85:
(Start: 99 @47774 has 25 MA's), (Start: 114 @47756 has 17 MA's), (Start: 123 @47735 has 3 MA's), (154, 47639),

Gene: Eyeball_75 Start: 46893, Stop: 46594, Start Num: 83
Candidate Starts for Eyeball_75:
(Start: 67 @46923 has 1 MA's), (Start: 83 @46893 has 208 MA's), (118, 46848), (119, 46845), (146, 46776), (157, 46725),

Gene: Fajezeel_79 Start: 48129, Stop: 47830, Start Num: 83
Candidate Starts for Fajezeel_79:
(Start: 67 @48159 has 1 MA's), (Start: 83 @48129 has 208 MA's), (118, 48084), (119, 48081), (146, 48012), (157, 47961),

Gene: Fameo_81 Start: 47377, Stop: 47072, Start Num: 100
Candidate Starts for Fameo_81:
(Start: 100 @47377 has 33 MA's), (Start: 124 @47332 has 2 MA's), (166, 47158),

Gene: Farber_80 Start: 45617, Stop: 45354, Start Num: 109
Candidate Starts for Farber_80:
(73, 45680), (Start: 80 @45662 has 2 MA's), (Start: 109 @45617 has 105 MA's), (118, 45596),

Gene: Fascinus_72 Start: 47417, Stop: 47118, Start Num: 83
Candidate Starts for Fascinus_72:
(58, 47477), (Start: 83 @47417 has 208 MA's), (118, 47372), (119, 47369), (146, 47300), (157, 47249),

Gene: Fayely_85 Start: 47682, Stop: 47401, Start Num: 99
Candidate Starts for Fayely_85:
(Start: 99 @47682 has 25 MA's), (Start: 114 @47664 has 17 MA's), (Start: 123 @47643 has 3 MA's), (154, 47547),

Gene: Fenn_79 Start: 47948, Stop: 47649, Start Num: 83
Candidate Starts for Fenn_79:
(58, 48008), (Start: 83 @47948 has 208 MA's), (118, 47903), (119, 47900), (146, 47831), (157, 47780),

Gene: Fernando_81 Start: 45630, Stop: 45367, Start Num: 109
Candidate Starts for Fernando_81:
(73, 45693), (Start: 80 @45675 has 2 MA's), (Start: 109 @45630 has 105 MA's), (118, 45609),

Gene: Fibonacci_83 Start: 46378, Stop: 46082, Start Num: 97
Candidate Starts for Fibonacci_83:
(Start: 97 @46378 has 26 MA's), (106, 46369), (120, 46339), (Start: 124 @46330 has 2 MA's), (154, 46240),

Gene: FiringLine_83 Start: 47765, Stop: 47457, Start Num: 100
Candidate Starts for FiringLine_83:
(Start: 100 @47765 has 33 MA's), (Start: 124 @47717 has 2 MA's), (130, 47702), (143, 47660), (166, 47543),

Gene: First_0084 Start: 47621, Stop: 47298, Start Num: 91
Candidate Starts for First_0084:
(Start: 91 @47621 has 2 MA's), (130, 47555), (143, 47513),

Gene: Flare16_83 Start: 47267, Stop: 46956, Start Num: 100
Candidate Starts for Flare16_83:
(Start: 100 @47267 has 33 MA's), (108, 47255), (121, 47225), (Start: 124 @47219 has 2 MA's), (130, 47204),

Gene: Flaverint_85 Start: 46836, Stop: 46540, Start Num: 97
Candidate Starts for Flaverint_85:
(Start: 97 @46836 has 26 MA's), (106, 46827), (108, 46824), (120, 46797), (Start: 124 @46788 has 2 MA's), (154, 46698),

Gene: Florean_75 Start: 45646, Stop: 45347, Start Num: 88
Candidate Starts for Florean_75:
(Start: 88 @45646 has 121 MA's), (117, 45604),

Gene: Flux_76 Start: 45645, Stop: 45346, Start Num: 88
Candidate Starts for Flux_76:
(Start: 88 @45645 has 121 MA's), (117, 45603),

Gene: FlyCatcher_78 Start: 49217, Stop: 48948, Start Num: 99
Candidate Starts for FlyCatcher_78:
(26, 49409), (28, 49391), (44, 49337), (45, 49334), (Start: 99 @49217 has 25 MA's), (111, 49205), (119, 49187), (Start: 126 @49169 has 1 MA's), (129, 49163), (143, 49127), (154, 49088), (157, 49064),

Gene: ForGetIt_71 Start: 44378, Stop: 44082, Start Num: 95
Candidate Starts for ForGetIt_71:
(Start: 95 @44378 has 11 MA's), (111, 44357), (160, 44198),

Gene: ForesterFrank_78 Start: 47477, Stop: 47178, Start Num: 103
Candidate Starts for ForesterFrank_78:
(Start: 103 @47477 has 12 MA's), (112, 47456), (167, 47252),

Gene: Forsytheast_78 Start: 47631, Stop: 47332, Start Num: 83
Candidate Starts for Forsytheast_78:
(Start: 67 @47661 has 1 MA's), (Start: 83 @47631 has 208 MA's), (118, 47586), (119, 47583), (146, 47514), (157, 47463),

Gene: Francis47_78 Start: 49500, Stop: 49201, Start Num: 83
Candidate Starts for Francis47_78:
(58, 49560), (Start: 83 @49500 has 208 MA's), (118, 49455), (119, 49452), (146, 49383), (157, 49332),

Gene: Fred313_76 Start: 45666, Stop: 45382, Start Num: 109
Candidate Starts for Fred313_76:
(Start: 109 @45666 has 105 MA's), (162, 45462),

Gene: Funston_74 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for Funston_74:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: Fushigi_70 Start: 43949, Stop: 43650, Start Num: 83
Candidate Starts for Fushigi_70:
(58, 44009), (Start: 83 @43949 has 208 MA's), (118, 43904), (119, 43901), (146, 43832), (157, 43781),

Gene: GMonster_74 Start: 46795, Stop: 46496, Start Num: 83
Candidate Starts for GMonster_74:
(58, 46855), (Start: 83 @46795 has 208 MA's), (118, 46750), (119, 46747), (146, 46678), (157, 46627),

Gene: Gadost_75 Start: 45648, Stop: 45349, Start Num: 88
Candidate Starts for Gadost_75:
(Start: 88 @45648 has 121 MA's), (117, 45606),

Gene: GageAP_79 Start: 48853, Stop: 48554, Start Num: 83
Candidate Starts for GageAP_79:
(58, 48913), (Start: 83 @48853 has 208 MA's), (118, 48808), (119, 48805), (146, 48736), (157, 48685),

Gene: Gail_84 Start: 47375, Stop: 47103, Start Num: 110
Candidate Starts for Gail_84:
(42, 47507), (47, 47495), (72, 47432), (Start: 110 @47375 has 4 MA's), (125, 47339), (139, 47291),

Gene: Gandalf20_75 Start: 46976, Stop: 46677, Start Num: 83
Candidate Starts for Gandalf20_75:

(Start: 67 @47006 has 1 MA's), (Start: 83 @46976 has 208 MA's), (118, 46931), (119, 46928), (146, 46859), (157, 46808),

Gene: Garak_85 Start: 45929, Stop: 45678, Start Num: 141
Candidate Starts for Garak_85:
(25, 46241), (35, 46184), (37, 46181), (56, 46136), (115, 46013), (Start: 138 @45941 has 22 MA's), (141, 45929), (144, 45923), (153, 45884),

Gene: GaugeLDP_77 Start: 46661, Stop: 46341, Start Num: 103
Candidate Starts for GaugeLDP_77:
(Start: 103 @46661 has 12 MA's), (Start: 110 @46646 has 4 MA's), (118, 46628), (120, 46622), (Start: 124 @46613 has 2 MA's), (161, 46457), (166, 46430),

Gene: Gemma_77 Start: 45437, Stop: 45174, Start Num: 109
Candidate Starts for Gemma_77:
(73, 45500), (Start: 80 @45482 has 2 MA's), (Start: 109 @45437 has 105 MA's), (118, 45416),

Gene: Georgie2_85 Start: 47969, Stop: 47661, Start Num: 100
Candidate Starts for Georgie2_85:
(Start: 100 @47969 has 33 MA's), (Start: 124 @47921 has 2 MA's), (130, 47906), (143, 47864), (166, 47747),

Gene: Ghoulboy_70 Start: 44353, Stop: 44036, Start Num: 92
Candidate Starts for Ghoulboy_70:
(60, 44425), (Start: 80 @44374 has 2 MA's), (85, 44365), (Start: 92 @44353 has 7 MA's), (Start: 97 @44347 has 26 MA's), (119, 44311), (Start: 124 @44299 has 2 MA's),

Gene: Gilberta_81 Start: 45712, Stop: 45416, Start Num: 97
Candidate Starts for Gilberta_81:
(Start: 97 @45712 has 26 MA's), (106, 45703), (120, 45673), (Start: 124 @45664 has 2 MA's), (154, 45574),

Gene: GingkoMaracino_80 Start: 45513, Stop: 45250, Start Num: 109
Candidate Starts for GingkoMaracino_80:
(73, 45576), (Start: 80 @45558 has 2 MA's), (Start: 109 @45513 has 105 MA's), (118, 45492),

Gene: Giroux_82 Start: 46035, Stop: 45763, Start Num: 109
Candidate Starts for Giroux_82:
(Start: 109 @46035 has 105 MA's),

Gene: Gladiator_80 Start: 45664, Stop: 45353, Start Num: 138
Candidate Starts for Gladiator_80:
(34, 45910), (37, 45904), (115, 45736), (Start: 138 @45664 has 22 MA's), (140, 45646), (141, 45643), (142, 45640), (144, 45637), (145, 45628), (147, 45622), (148, 45619), (153, 45598), (159, 45562),

Gene: Gompeii16_77 Start: 49500, Stop: 49201, Start Num: 83
Candidate Starts for Gompeii16_77:
(58, 49560), (Start: 83 @49500 has 208 MA's), (118, 49455), (119, 49452), (146, 49383), (157, 49332),

Gene: Goose_84 Start: 48190, Stop: 47897, Start Num: 96
Candidate Starts for Goose_84:
(11, 48550), (18, 48454), (Start: 96 @48190 has 15 MA's), (128, 48136),

Gene: Graduation_79 Start: 47476, Stop: 47177, Start Num: 83
Candidate Starts for Graduation_79:
(Start: 83 @47476 has 208 MA's), (118, 47431), (119, 47428), (146, 47359), (157, 47308),

Gene: Gratitude_81 Start: 47452, Stop: 47141, Start Num: 100
Candidate Starts for Gratitude_81:
(Start: 100 @47452 has 33 MA's), (108, 47440), (121, 47410), (Start: 124 @47404 has 2 MA's), (130, 47389),

Gene: GrecoEtereo_80 Start: 48605, Stop: 48306, Start Num: 83
Candidate Starts for GrecoEtereo_80:
(Start: 67 @48635 has 1 MA's), (Start: 83 @48605 has 208 MA's), (118, 48560), (119, 48557), (146, 48488),

Gene: GreedyLawyer_77 Start: 45520, Stop: 45230, Start Num: 94
Candidate Starts for GreedyLawyer_77:
(30, 45664), (41, 45634), (64, 45568), (Start: 66 @45562 has 1 MA's), (Start: 94 @45520 has 17 MA's), (Start: 123 @45478 has 3 MA's), (Start: 124 @45475 has 2 MA's), (Start: 126 @45469 has 1 MA's), (128, 45466), (131, 45457), (149, 45400),

Gene: Greg_79 Start: 48129, Stop: 47830, Start Num: 83
Candidate Starts for Greg_79:
(Start: 67 @48159 has 1 MA's), (Start: 83 @48129 has 208 MA's), (118, 48084), (119, 48081), (146, 48012), (157, 47961),

Gene: Grif_78 Start: 45704, Stop: 45441, Start Num: 109
Candidate Starts for Grif_78:
(73, 45767), (Start: 80 @45749 has 2 MA's), (Start: 109 @45704 has 105 MA's), (118, 45683),

Gene: GroundGoblin_69 Start: 45482, Stop: 45183, Start Num: 83
Candidate Starts for GroundGoblin_69:
(Start: 83 @45482 has 208 MA's), (118, 45437), (119, 45434), (146, 45365), (157, 45314),

Gene: Groupthink_80 Start: 45438, Stop: 45175, Start Num: 109
Candidate Starts for Groupthink_80:
(73, 45501), (Start: 80 @45483 has 2 MA's), (Start: 109 @45438 has 105 MA's), (118, 45417),

Gene: Grub_78 Start: 45620, Stop: 45357, Start Num: 109
Candidate Starts for Grub_78:
(73, 45683), (Start: 80 @45665 has 2 MA's), (Start: 109 @45620 has 105 MA's),

Gene: Grum1_80 Start: 45630, Stop: 45367, Start Num: 109
Candidate Starts for Grum1_80:
(73, 45693), (Start: 80 @45675 has 2 MA's), (Start: 109 @45630 has 105 MA's), (118, 45609),

Gene: Gruunaga_83 Start: 45619, Stop: 45308, Start Num: 138
Candidate Starts for Gruunaga_83:
(34, 45865), (37, 45859), (115, 45691), (Start: 138 @45619 has 22 MA's), (140, 45601), (141, 45598), (142, 45595), (144, 45592), (145, 45583), (147, 45577), (148, 45574), (153, 45553), (159, 45517),

Gene: GtownJaz_80 Start: 45628, Stop: 45365, Start Num: 109
Candidate Starts for GtownJaz_80:
(73, 45691), (Start: 80 @45673 has 2 MA's), (Start: 109 @45628 has 105 MA's), (118, 45607),

Gene: Gwendoluna_80 Start: 48442, Stop: 48143, Start Num: 83
Candidate Starts for Gwendoluna_80:
(Start: 67 @48472 has 1 MA's), (Start: 83 @48442 has 208 MA's), (118, 48397), (119, 48394), (146, 48325), (157, 48274),

Gene: Gwennie_75 Start: 45631, Stop: 45368, Start Num: 109
Candidate Starts for Gwennie_75:
(73, 45694), (Start: 80 @45676 has 2 MA's), (Start: 109 @45631 has 105 MA's), (118, 45610),

Gene: Gyzlar_69 Start: 43801, Stop: 43514, Start Num: 83
Candidate Starts for Gyzlar_69:
(58, 43861), (Start: 83 @43801 has 208 MA's), (118, 43768), (119, 43765), (146, 43696), (157, 43645),

Gene: HINdeR_74 Start: 48078, Stop: 47791, Start Num: 103
Candidate Starts for HINdeR_74:
(33, 48225), (38, 48216), (Start: 103 @48078 has 12 MA's), (130, 48018),

Gene: HamSlice_71 Start: 45646, Stop: 45347, Start Num: 88
Candidate Starts for HamSlice_71:
(Start: 88 @45646 has 121 MA's), (117, 45604),

Gene: Hami1_69 Start: 41842, Stop: 41543, Start Num: 83
Candidate Starts for Hami1_69:
(58, 41902), (Start: 83 @41842 has 208 MA's), (118, 41797), (119, 41794), (146, 41725), (157, 41674),

Gene: Hammer_84 Start: 45326, Stop: 45015, Start Num: 138
Candidate Starts for Hammer_84:
(13, 45779), (34, 45572), (37, 45566), (115, 45398), (Start: 138 @45326 has 22 MA's), (140, 45308), (141, 45305), (142, 45302), (144, 45299), (145, 45290), (147, 45284), (148, 45281), (153, 45260), (159, 45224),

Gene: HanShotFirst_74 Start: 47407, Stop: 47108, Start Num: 83
Candidate Starts for HanShotFirst_74:
(58, 47467), (Start: 83 @47407 has 208 MA's), (118, 47362), (119, 47359), (146, 47290), (157, 47239),

Gene: Hanray_85 Start: 47995, Stop: 47711, Start Num: 99
Candidate Starts for Hanray_85:
(Start: 99 @47995 has 25 MA's), (Start: 123 @47956 has 3 MA's), (154, 47860),

Gene: Happiness_74 Start: 45670, Stop: 45368, Start Num: 88
Candidate Starts for Happiness_74:
(Start: 88 @45670 has 121 MA's), (117, 45628), (149, 45550),

Gene: HarryHoudini_83 Start: 47477, Stop: 47166, Start Num: 100
Candidate Starts for HarryHoudini_83:
(Start: 100 @47477 has 33 MA's), (108, 47465), (121, 47435), (Start: 124 @47429 has 2 MA's), (130, 47414),

Gene: HarryOW_77 Start: 48653, Stop: 48354, Start Num: 83
Candidate Starts for HarryOW_77:
(Start: 67 @48683 has 1 MA's), (Start: 83 @48653 has 208 MA's), (118, 48608), (119, 48605), (146, 48536), (157, 48485),

Gene: HashRod_81 Start: 45657, Stop: 45394, Start Num: 109
Candidate Starts for HashRod_81:
(73, 45720), (Start: 80 @45702 has 2 MA's), (Start: 109 @45657 has 105 MA's), (118, 45636),

Gene: HaveUMetTed_80 Start: 45426, Stop: 45163, Start Num: 109
Candidate Starts for HaveUMetTed_80:
(73, 45489), (Start: 80 @45471 has 2 MA's), (Start: 109 @45426 has 105 MA's), (118, 45405),

Gene: Heathen_78 Start: 45754, Stop: 45470, Start Num: 109
Candidate Starts for Heathen_78:
(Start: 109 @45754 has 105 MA's), (162, 45550),

Gene: Heffalump_80 Start: 47845, Stop: 47540, Start Num: 100
Candidate Starts for Heffalump_80:
(Start: 100 @47845 has 33 MA's), (Start: 124 @47800 has 2 MA's), (166, 47626),

Gene: HelDan_79 Start: 45977, Stop: 45693, Start Num: 109
Candidate Starts for HelDan_79:
(Start: 109 @45977 has 105 MA's), (162, 45773),

Gene: Heliosoles_77 Start: 45442, Stop: 45179, Start Num: 109
Candidate Starts for Heliosoles_77:
(73, 45505), (Start: 80 @45487 has 2 MA's), (Start: 109 @45442 has 105 MA's), (118, 45421),

Gene: Helmet_86 Start: 45941, Stop: 45678, Start Num: 138
Candidate Starts for Helmet_86:
(25, 46241), (35, 46184), (37, 46181), (56, 46136), (115, 46013), (Start: 138 @45941 has 22 MA's),
(141, 45929), (144, 45923), (153, 45884),

Gene: Herbertwm_77 Start: 46431, Stop: 46096, Start Num: 96
Candidate Starts for Herbertwm_77:
(30, 46587), (41, 46551), (46, 46539), (64, 46485), (69, 46473), (Start: 96 @46431 has 15 MA's), (119,
46386), (134, 46332), (157, 46251), (167, 46188),

Gene: Hercules11_80 Start: 45639, Stop: 45376, Start Num: 109
Candidate Starts for Hercules11_80:
(73, 45702), (Start: 80 @45684 has 2 MA's), (Start: 109 @45639 has 105 MA's), (118, 45618),

Gene: Hermia_71 Start: 45532, Stop: 45233, Start Num: 83
Candidate Starts for Hermia_71:
(Start: 83 @45532 has 208 MA's), (118, 45487), (119, 45484), (146, 45415), (157, 45364),

Gene: HermioneGrange_80 Start: 48918, Stop: 48619, Start Num: 83
Candidate Starts for HermioneGrange_80:
(58, 48978), (Start: 83 @48918 has 208 MA's), (118, 48873), (119, 48870), (146, 48801), (157, 48750),

Gene: Hexamo_83 Start: 45494, Stop: 45183, Start Num: 138
Candidate Starts for Hexamo_83:
(13, 45947), (34, 45740), (37, 45734), (115, 45566), (Start: 138 @45494 has 22 MA's), (140, 45476),
(141, 45473), (142, 45470), (145, 45458), (147, 45452), (148, 45449), (153, 45428), (159, 45392),

Gene: HippoHollow_80 Start: 48451, Stop: 48131, Start Num: 98

Candidate Starts for HippoHollow_80:
(31, 48601), (45, 48565), (55, 48541), (Start: 98 @48451 has 19 MA's), (Start: 102 @48448 has 1 MA's), (121, 48409), (Start: 123 @48406 has 3 MA's), (143, 48346),

Gene: Holex_86 Start: 47990, Stop: 47727, Start Num: 114
Candidate Starts for Holex_86:
(Start: 99 @48008 has 25 MA's), (Start: 114 @47990 has 17 MA's), (Start: 123 @47969 has 3 MA's), (154, 47873),

Gene: Holli_74 Start: 45437, Stop: 45138, Start Num: 88
Candidate Starts for Holli_74:
(Start: 88 @45437 has 121 MA's), (117, 45395),

Gene: Homines_64 Start: 41862, Stop: 41563, Start Num: 83
Candidate Starts for Homines_64:
(Start: 83 @41862 has 208 MA's), (118, 41817), (119, 41814), (146, 41745), (154, 41718), (157, 41694),

Gene: Hookmount_79 Start: 45998, Stop: 45720, Start Num: 109
Candidate Starts for Hookmount_79:
(Start: 91 @46019 has 2 MA's), (Start: 107 @46001 has 7 MA's), (Start: 109 @45998 has 105 MA's), (118, 45980),

Gene: Hoot_78 Start: 43405, Stop: 43115, Start Num: 94
Candidate Starts for Hoot_78:
(30, 43549), (41, 43519), (64, 43453), (Start: 66 @43447 has 1 MA's), (Start: 94 @43405 has 17 MA's), (Start: 123 @43363 has 3 MA's), (Start: 124 @43360 has 2 MA's), (Start: 126 @43354 has 1 MA's), (128, 43351), (131, 43342), (149, 43285),

Gene: Hope4ever_77 Start: 47133, Stop: 46834, Start Num: 83
Candidate Starts for Hope4ever_77:
(22, 47340), (24, 47313), (29, 47271), (30, 47268), (36, 47241), (43, 47229), (46, 47220), (52, 47205), (75, 47151), (Start: 83 @47133 has 208 MA's), (118, 47088), (119, 47085), (146, 47016), (157, 46965),

Gene: HortumSL17_88 Start: 48032, Stop: 47766, Start Num: 114
Candidate Starts for HortumSL17_88:
(Start: 99 @48050 has 25 MA's), (Start: 114 @48032 has 17 MA's), (Start: 123 @48011 has 3 MA's), (154, 47915),

Gene: Houdini22_74 Start: 45648, Stop: 45349, Start Num: 88
Candidate Starts for Houdini22_74:
(Start: 88 @45648 has 121 MA's), (117, 45606),

Gene: HuhtaEnerson15_68 Start: 43954, Stop: 43652, Start Num: 90
Candidate Starts for HuhtaEnerson15_68:
(Start: 90 @43954 has 6 MA's), (111, 43927), (Start: 114 @43921 has 17 MA's), (160, 43768),

Gene: Hutc2_80 Start: 45262, Stop: 44966, Start Num: 97
Candidate Starts for Hutc2_80:
(Start: 97 @45262 has 26 MA's), (106, 45253), (120, 45223), (Start: 124 @45214 has 2 MA's), (154, 45124),

Gene: ICleared_74 Start: 45715, Stop: 45416, Start Num: 88

Candidate Starts for ICleared_74:
(Start: 88 @45715 has 121 MA's), (117, 45673),

Gene: ILeeKay_74 Start: 45443, Stop: 45144, Start Num: 83
Candidate Starts for ILeeKay_74:
(58, 45503), (Start: 83 @45443 has 208 MA's), (118, 45398), (119, 45395), (146, 45326), (157, 45275),

Gene: Iceman_73 Start: 45937, Stop: 45638, Start Num: 88
Candidate Starts for Iceman_73:
(Start: 88 @45937 has 121 MA's), (117, 45895),

Gene: Ichabod_79 Start: 47690, Stop: 47391, Start Num: 83
Candidate Starts for Ichabod_79:
(58, 47750), (Start: 83 @47690 has 208 MA's), (118, 47645), (119, 47642), (146, 47573), (157, 47522),

Gene: Idleandcovert_79 Start: 46036, Stop: 45764, Start Num: 109
Candidate Starts for Idleandcovert_79:
(Start: 109 @46036 has 105 MA's),

Gene: IgnatiusPatJac_76 Start: 46338, Stop: 46009, Start Num: 67
Candidate Starts for IgnatiusPatJac_76:
(Start: 67 @46338 has 1 MA's), (Start: 83 @46308 has 208 MA's), (118, 46263), (119, 46260), (146, 46191), (157, 46140),

Gene: Indra_87 Start: 45942, Stop: 45679, Start Num: 138
Candidate Starts for Indra_87:
(25, 46242), (35, 46185), (37, 46182), (56, 46137), (115, 46014), (Start: 138 @45942 has 22 MA's), (141, 45930), (144, 45924), (153, 45885),

Gene: Insomnia_83 Start: 46556, Stop: 46257, Start Num: 97
Candidate Starts for Insomnia_83:
(Start: 97 @46556 has 26 MA's), (106, 46547), (120, 46517), (Start: 124 @46508 has 2 MA's), (154, 46418),

Gene: Inyanga_68 Start: 45636, Stop: 45337, Start Num: 83
Candidate Starts for Inyanga_68:
(58, 45696), (Start: 83 @45636 has 208 MA's), (118, 45591), (119, 45588), (146, 45519), (157, 45468),

Gene: Iqorha_68 Start: 45635, Stop: 45336, Start Num: 83
Candidate Starts for Iqorha_68:
(58, 45695), (Start: 83 @45635 has 208 MA's), (118, 45590), (119, 45587), (146, 45518), (157, 45467),

Gene: Iracema64_75 Start: 45911, Stop: 45612, Start Num: 88
Candidate Starts for Iracema64_75:
(Start: 88 @45911 has 121 MA's), (117, 45869),

Gene: IronMan_79 Start: 48100, Stop: 47804, Start Num: 89
Candidate Starts for IronMan_79:
(54, 48175), (Start: 89 @48100 has 2 MA's), (Start: 116 @48064 has 1 MA's),

Gene: Isca_75 Start: 45153, Stop: 44866, Start Num: 107
Candidate Starts for Isca_75:

(Start: 91 @45171 has 2 MA's), (Start: 107 @45153 has 7 MA's), (Start: 109 @45150 has 105 MA's), (154, 45030), (162, 44946),

Gene: Isiphiwo_80 Start: 45575, Stop: 45285, Start Num: 94
Candidate Starts for Isiphiwo_80:
(Start: 94 @45575 has 17 MA's), (Start: 123 @45533 has 3 MA's), (Start: 124 @45530 has 2 MA's), (Start: 126 @45524 has 1 MA's), (128, 45521), (131, 45512), (149, 45455),

Gene: Iwokeuplikedis_86 Start: 48070, Stop: 47795, Start Num: 96
Candidate Starts for Iwokeuplikedis_86:
(30, 48229), (41, 48193), (46, 48181), (Start: 66 @48121 has 1 MA's), (69, 48115), (Start: 96 @48070 has 15 MA's), (120, 48031), (Start: 126 @48016 has 1 MA's),

Gene: JC27_77 Start: 46703, Stop: 46419, Start Num: 87
Candidate Starts for JC27_77:
(70, 46733), (Start: 87 @46703 has 3 MA's), (Start: 99 @46691 has 25 MA's), (146, 46601), (157, 46550),

Gene: JF2_75 Start: 43846, Stop: 43562, Start Num: 109
Candidate Starts for JF2_75:
(Start: 91 @43867 has 2 MA's), (Start: 107 @43849 has 7 MA's), (Start: 109 @43846 has 105 MA's), (154, 43726), (162, 43642),

Gene: JF4_75 Start: 43846, Stop: 43562, Start Num: 109
Candidate Starts for JF4_75:
(Start: 91 @43867 has 2 MA's), (Start: 107 @43849 has 7 MA's), (Start: 109 @43846 has 105 MA's), (154, 43726), (162, 43642),

Gene: JHC117_75 Start: 45625, Stop: 45362, Start Num: 109
Candidate Starts for JHC117_75:
(73, 45688), (Start: 80 @45670 has 2 MA's), (Start: 109 @45625 has 105 MA's), (118, 45604),

Gene: Jaan_80 Start: 48211, Stop: 47903, Start Num: 88
Candidate Starts for Jaan_80:
(Start: 88 @48211 has 121 MA's), (117, 48169), (134, 48109),

Gene: Jabith_83 Start: 46570, Stop: 46274, Start Num: 97
Candidate Starts for Jabith_83:
(Start: 97 @46570 has 26 MA's), (106, 46561), (120, 46531), (Start: 124 @46522 has 2 MA's), (154, 46432),

Gene: JackSparrow_77 Start: 46543, Stop: 46244, Start Num: 83
Candidate Starts for JackSparrow_77:
(58, 46603), (Start: 83 @46543 has 208 MA's), (118, 46498), (119, 46495), (157, 46375),

Gene: Jasper_75 Start: 45295, Stop: 44996, Start Num: 83
Candidate Starts for Jasper_75:
(58, 45355), (Start: 83 @45295 has 208 MA's), (118, 45250), (119, 45247), (146, 45178), (157, 45127),

Gene: Jaykayelowell_72 Start: 45640, Stop: 45341, Start Num: 88
Candidate Starts for Jaykayelowell_72:
(Start: 88 @45640 has 121 MA's), (117, 45598),

Gene: Jeeves_84 Start: 46095, Stop: 45823, Start Num: 110
Candidate Starts for Jeeves_84:
(42, 46227), (47, 46215), (72, 46152), (75, 46146), (Start: 110 @46095 has 4 MA's), (Start: 123 @46065 has 3 MA's), (125, 46059), (127, 46056), (139, 46011),

Gene: JenCasNa_81 Start: 45630, Stop: 45367, Start Num: 109
Candidate Starts for JenCasNa_81:
(73, 45693), (Start: 80 @45675 has 2 MA's), (Start: 109 @45630 has 105 MA's), (118, 45609),

Gene: JeppNRM_80 Start: 45440, Stop: 45177, Start Num: 109
Candidate Starts for JeppNRM_80:
(73, 45503), (Start: 80 @45485 has 2 MA's), (Start: 109 @45440 has 105 MA's), (130, 45392),

Gene: Jerm_85 Start: 48029, Stop: 47718, Start Num: 98
Candidate Starts for Jerm_85:
(Start: 98 @48029 has 19 MA's), (Start: 100 @48026 has 33 MA's), (130, 47963), (166, 47801),

Gene: Jerm2_78 Start: 48988, Stop: 48689, Start Num: 83
Candidate Starts for Jerm2_78:
(58, 49048), (Start: 83 @48988 has 208 MA's), (118, 48943), (119, 48940), (146, 48871), (157, 48820),

Gene: JetBlade_76 Start: 45675, Stop: 45376, Start Num: 88
Candidate Starts for JetBlade_76:
(Start: 88 @45675 has 121 MA's), (117, 45633),

Gene: Jiawan_85 Start: 48025, Stop: 47744, Start Num: 99
Candidate Starts for Jiawan_85:
(Start: 99 @48025 has 25 MA's), (Start: 123 @47986 has 3 MA's), (154, 47890),

Gene: Jobu08_76 Start: 45454, Stop: 45191, Start Num: 109
Candidate Starts for Jobu08_76:
(73, 45517), (Start: 80 @45499 has 2 MA's), (Start: 109 @45454 has 105 MA's), (118, 45433),

Gene: JoongJeon_74 Start: 45641, Stop: 45342, Start Num: 88
Candidate Starts for JoongJeon_74:
(Start: 88 @45641 has 121 MA's), (117, 45599),

Gene: Jordennis_81 Start: 45745, Stop: 45497, Start Num: 123
Candidate Starts for Jordennis_81:
(30, 45931), (41, 45901), (64, 45835), (Start: 66 @45829 has 1 MA's), (Start: 94 @45787 has 17 MA's), (Start: 123 @45745 has 3 MA's), (Start: 124 @45742 has 2 MA's), (Start: 126 @45736 has 1 MA's), (128, 45733), (131, 45724), (149, 45667), (152, 45652),

Gene: Jorgensen_83 Start: 48562, Stop: 48278, Start Num: 87
Candidate Starts for Jorgensen_83:
(70, 48592), (Start: 87 @48562 has 3 MA's), (Start: 99 @48550 has 25 MA's), (146, 48460), (157, 48409),

Gene: Joselito_83 Start: 46590, Stop: 46294, Start Num: 97
Candidate Starts for Joselito_83:
(Start: 97 @46590 has 26 MA's), (106, 46581), (108, 46578), (120, 46551), (Start: 124 @46542 has 2 MA's), (154, 46452),

Gene: JoshKayV_85 Start: 48197, Stop: 47886, Start Num: 98
Candidate Starts for JoshKayV_85:
(Start: 98 @48197 has 19 MA's), (Start: 100 @48194 has 33 MA's), (121, 48152), (Start: 124 @48146 has 2 MA's), (166, 47972),

Gene: Journey13_68 Start: 43259, Stop: 42879, Start Num: 48
Candidate Starts for Journey13_68:
(Start: 48 @43259 has 1 MA's), (51, 43250), (Start: 99 @43151 has 25 MA's), (113, 43133), (Start: 123 @43115 has 3 MA's), (135, 43079),

Gene: Jsquared_87 Start: 47057, Stop: 46782, Start Num: 101
Candidate Starts for Jsquared_87:
(21, 47306), (Start: 101 @47057 has 17 MA's), (Start: 116 @47036 has 1 MA's), (120, 47024), (Start: 123 @47018 has 3 MA's),

Gene: JuliaChild_77 Start: 47536, Stop: 47237, Start Num: 83
Candidate Starts for JuliaChild_77:
(Start: 67 @47566 has 1 MA's), (Start: 83 @47536 has 208 MA's), (118, 47491), (119, 47488), (146, 47419), (157, 47368),

Gene: KADY_77 Start: 45657, Stop: 45394, Start Num: 109
Candidate Starts for KADY_77:
(73, 45720), (Start: 80 @45702 has 2 MA's), (Start: 109 @45657 has 105 MA's), (118, 45636),

Gene: KBG_74 Start: 47890, Stop: 47585, Start Num: 79
Candidate Starts for KBG_74:
(Start: 79 @47890 has 2 MA's), (Start: 83 @47884 has 208 MA's), (118, 47839), (119, 47836), (146, 47767), (157, 47716),

Gene: KFPoly_74 Start: 45641, Stop: 45342, Start Num: 88
Candidate Starts for KFPoly_74:
(Start: 88 @45641 has 121 MA's), (117, 45599),

Gene: KSSJEB_73 Start: 45768, Stop: 45469, Start Num: 83
Candidate Starts for KSSJEB_73:
(Start: 83 @45768 has 208 MA's), (118, 45723), (119, 45720), (146, 45651), (157, 45600),

Gene: Kachowdy_76 Start: 46006, Stop: 45722, Start Num: 109
Candidate Starts for Kachowdy_76:
(Start: 109 @46006 has 105 MA's), (162, 45802),

Gene: Kalnoky_80 Start: 45435, Stop: 45172, Start Num: 109
Candidate Starts for Kalnoky_80:
(73, 45498), (Start: 80 @45480 has 2 MA's), (Start: 109 @45435 has 105 MA's), (118, 45414),

Gene: Kalpine_85 Start: 48190, Stop: 47882, Start Num: 103
Candidate Starts for Kalpine_85:
(Start: 103 @48190 has 12 MA's), (121, 48151), (Start: 123 @48148 has 3 MA's),

Gene: Kampy_74 Start: 45650, Stop: 45351, Start Num: 88
Candidate Starts for Kampy_74:
(Start: 88 @45650 has 121 MA's), (117, 45608),

Gene: Kanely_78 Start: 47624, Stop: 47325, Start Num: 83
Candidate Starts for Kanely_78:
(Start: 78 @47630 has 1 MA's), (Start: 83 @47624 has 208 MA's), (118, 47579), (119, 47576), (146, 47507), (157, 47456),

Gene: Katalie136_74 Start: 45708, Stop: 45397, Start Num: 62
Candidate Starts for Katalie136_74:
(Start: 61 @45711 has 2 MA's), (Start: 62 @45708 has 13 MA's), (Start: 71 @45690 has 2 MA's), (74, 45687), (Start: 94 @45657 has 17 MA's), (Start: 123 @45645 has 3 MA's), (134, 45606), (149, 45573),

Gene: Kazan_84 Start: 45560, Stop: 45270, Start Num: 94
Candidate Starts for Kazan_84:
(30, 45704), (41, 45674), (64, 45608), (Start: 66 @45602 has 1 MA's), (Start: 94 @45560 has 17 MA's), (Start: 123 @45518 has 3 MA's), (Start: 124 @45515 has 2 MA's), (Start: 126 @45509 has 1 MA's), (128, 45506), (131, 45497), (149, 45440), (152, 45425),

Gene: KekoraPapaka_72 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for KekoraPapaka_72:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: Kenmech_78 Start: 47914, Stop: 47615, Start Num: 83
Candidate Starts for Kenmech_78:
(Start: 67 @47944 has 1 MA's), (Start: 83 @47914 has 208 MA's), (118, 47869), (119, 47866), (146, 47797), (157, 47746),

Gene: Kerberos_83 Start: 47197, Stop: 46919, Start Num: 101
Candidate Starts for Kerberos_83:
(Start: 101 @47197 has 17 MA's), (120, 47164), (Start: 123 @47158 has 3 MA's), (160, 47023),

Gene: Keziacharles14_84 Start: 48520, Stop: 48254, Start Num: 101
Candidate Starts for Keziacharles14_84:
(Start: 101 @48520 has 17 MA's), (Start: 116 @48505 has 1 MA's), (Start: 123 @48487 has 3 MA's), (Start: 124 @48484 has 2 MA's), (125, 48481),

Gene: KikiBouba_70 Start: 45341, Stop: 45042, Start Num: 83
Candidate Starts for KikiBouba_70:
(Start: 83 @45341 has 208 MA's), (118, 45296), (119, 45293), (146, 45224), (157, 45173),

Gene: Killigrew_73 Start: 46134, Stop: 45835, Start Num: 83
Candidate Starts for Killigrew_73:
(58, 46194), (Start: 83 @46134 has 208 MA's), (118, 46089), (119, 46086), (137, 46044), (146, 46017), (157, 45966),

Gene: Kimba_81 Start: 45893, Stop: 45597, Start Num: 97
Candidate Starts for Kimba_81:
(Start: 97 @45893 has 26 MA's), (106, 45884), (120, 45854), (Start: 124 @45845 has 2 MA's), (154, 45755),

Gene: Kimona_76 Start: 44739, Stop: 44437, Start Num: 83
Candidate Starts for Kimona_76:
(53, 44811), (Start: 83 @44739 has 208 MA's),

Gene: KingCyrus_82 Start: 48898, Stop: 48593, Start Num: 98

Candidate Starts for KingCyrus_82:
(Start: 98 @48898 has 19 MA's), (121, 48859), (Start: 124 @48853 has 2 MA's), (165, 48682), (166, 48679),

Gene: Kingmustik0402_75 Start: 45636, Stop: 45337, Start Num: 88
Candidate Starts for Kingmustik0402_75:
(Start: 88 @45636 has 121 MA's), (117, 45594),

Gene: Kipper29_83 Start: 45573, Stop: 45283, Start Num: 94
Candidate Starts for Kipper29_83:
(30, 45717), (41, 45687), (64, 45621), (Start: 66 @45615 has 1 MA's), (Start: 94 @45573 has 17 MA's), (Start: 123 @45531 has 3 MA's), (Start: 124 @45528 has 2 MA's), (Start: 126 @45522 has 1 MA's), (128, 45519), (131, 45510), (149, 45453),

Gene: KittenMittens_78 Start: 47540, Stop: 47253, Start Num: 96
Candidate Starts for KittenMittens_78:
(2, 48347), (3, 48326), (4, 48314), (11, 47900), (18, 47804), (Start: 96 @47540 has 15 MA's), (Start: 110 @47525 has 4 MA's), (120, 47507),

Gene: Klodlith_83 Start: 47367, Stop: 47134, Start Num: 124
Candidate Starts for Klodlith_83:
(Start: 99 @47403 has 25 MA's), (Start: 124 @47367 has 2 MA's),

Gene: Koan_72 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for Koan_72:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: Koduck_83 Start: 46399, Stop: 46124, Start Num: 101
Candidate Starts for Koduck_83:
(21, 46648), (Start: 101 @46399 has 17 MA's), (118, 46372), (120, 46366), (Start: 123 @46360 has 3 MA's),

Gene: Koko_85 Start: 46331, Stop: 46068, Start Num: 138
Candidate Starts for Koko_85:
(25, 46631), (35, 46574), (37, 46571), (56, 46526), (115, 46403), (Start: 138 @46331 has 22 MA's), (141, 46319), (144, 46313), (153, 46274),

Gene: Koreni_74 Start: 45328, Stop: 45029, Start Num: 88
Candidate Starts for Koreni_74:
(Start: 88 @45328 has 121 MA's), (117, 45286),

Gene: Kratark_74 Start: 45681, Stop: 45382, Start Num: 88
Candidate Starts for Kratark_74:
(Start: 88 @45681 has 121 MA's), (117, 45639),

Gene: Kremtemulon_74 Start: 45795, Stop: 45481, Start Num: 62
Candidate Starts for Kremtemulon_74:
(Start: 61 @45798 has 2 MA's), (Start: 62 @45795 has 13 MA's), (Start: 71 @45777 has 2 MA's), (74, 45774), (Start: 123 @45732 has 3 MA's), (134, 45693),

Gene: Kristoff_81 Start: 48800, Stop: 48519, Start Num: 96
Candidate Starts for Kristoff_81:
(9, 49208), (15, 49112), (Start: 96 @48800 has 15 MA's),

Gene: Kugel_78 Start: 47776, Stop: 47477, Start Num: 83
Candidate Starts for Kugel_78:
(58, 47836), (Start: 83 @47776 has 208 MA's), (118, 47731), (119, 47728), (146, 47659), (157, 47608),

Gene: KyMonks1A_82 Start: 48245, Stop: 47946, Start Num: 83
Candidate Starts for KyMonks1A_82:
(Start: 67 @48275 has 1 MA's), (Start: 83 @48245 has 208 MA's), (118, 48200), (119, 48197), (146, 48128), (157, 48077),

Gene: Kyee_75 Start: 45642, Stop: 45343, Start Num: 88
Candidate Starts for Kyee_75:
(Start: 88 @45642 has 121 MA's), (117, 45600),

Gene: Kykar_76 Start: 46815, Stop: 46522, Start Num: 83
Candidate Starts for Kykar_76:
(58, 46875), (Start: 83 @46815 has 208 MA's), (Start: 99 @46794 has 25 MA's), (146, 46704), (157, 46653),

Gene: L5_76 Start: 46290, Stop: 46015, Start Num: 101
Candidate Starts for L5_76:
(21, 46539), (Start: 101 @46290 has 17 MA's), (118, 46263), (120, 46257), (Start: 123 @46251 has 3 MA's),

Gene: LBerry_81 Start: 45631, Stop: 45368, Start Num: 109
Candidate Starts for LBerry_81:
(73, 45694), (Start: 80 @45676 has 2 MA's), (Start: 109 @45631 has 105 MA's), (118, 45610),

Gene: LHTSCC_77 Start: 46087, Stop: 45785, Start Num: 88
Candidate Starts for LHTSCC_77:
(Start: 88 @46087 has 121 MA's), (117, 46045), (149, 45967),

Gene: LadyBird_87 Start: 48119, Stop: 47796, Start Num: 91
Candidate Starts for LadyBird_87:
(Start: 91 @48119 has 2 MA's), (Start: 110 @48098 has 4 MA's), (Start: 124 @48068 has 2 MA's), (130, 48053),

Gene: Lambert1_79 Start: 46002, Stop: 45721, Start Num: 107
Candidate Starts for Lambert1_79:
(Start: 91 @46020 has 2 MA's), (Start: 107 @46002 has 7 MA's), (Start: 109 @45999 has 105 MA's), (118, 45981),

Gene: Lamina13_80 Start: 49268, Stop: 48969, Start Num: 83
Candidate Starts for Lamina13_80:
(58, 49328), (Start: 83 @49268 has 208 MA's), (118, 49223), (119, 49220), (146, 49151), (157, 49100),

Gene: Landor_80 Start: 48136, Stop: 47828, Start Num: 88
Candidate Starts for Landor_80:
(Start: 88 @48136 has 121 MA's), (117, 48094), (134, 48034),

Gene: LappelDuVide_75 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for LappelDuVide_75:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: Larenn_81 Start: 47473, Stop: 47156, Start Num: 100
Candidate Starts for Larenn_81:
(5, 48031), (10, 47863), (19, 47719), (Start: 100 @47473 has 33 MA's), (Start: 103 @47470 has 12 MA's), (121, 47431), (130, 47410), (165, 47245),

Gene: LarryKay_80 Start: 45661, Stop: 45398, Start Num: 109
Candidate Starts for LarryKay_80:
(73, 45724), (Start: 80 @45706 has 2 MA's), (Start: 109 @45661 has 105 MA's), (118, 45640),

Gene: Lemur_75 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for Lemur_75:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: LeoAvram_74 Start: 45714, Stop: 45379, Start Num: 65
Candidate Starts for LeoAvram_74:
(Start: 65 @45714 has 1 MA's), (93, 45663), (117, 45636),

Gene: Lesedi_73 Start: 45402, Stop: 45103, Start Num: 83
Candidate Starts for Lesedi_73:
(Start: 67 @45432 has 1 MA's), (Start: 83 @45402 has 208 MA's), (118, 45357), (119, 45354), (146, 45285), (157, 45234),

Gene: Lev2_71 Start: 44266, Stop: 43970, Start Num: 95
Candidate Starts for Lev2_71:
(Start: 95 @44266 has 11 MA's), (111, 44245), (160, 44086),

Gene: Levia_70 Start: 44940, Stop: 44641, Start Num: 83
Candidate Starts for Levia_70:
(Start: 67 @44970 has 1 MA's), (Start: 83 @44940 has 208 MA's), (118, 44895), (119, 44892), (146, 44823), (157, 44772),

Gene: Leviathan_85 Start: 48110, Stop: 47802, Start Num: 98
Candidate Starts for Leviathan_85:
(Start: 98 @48110 has 19 MA's), (Start: 100 @48107 has 33 MA's), (121, 48065), (Start: 124 @48059 has 2 MA's), (130, 48044), (166, 47885),

Gene: Licorice_77 Start: 48925, Stop: 48626, Start Num: 83
Candidate Starts for Licorice_77:
(Start: 79 @48931 has 2 MA's), (Start: 83 @48925 has 208 MA's), (118, 48880), (119, 48877), (146, 48808), (157, 48757),

Gene: LilBib_73 Start: 47156, Stop: 46857, Start Num: 83
Candidate Starts for LilBib_73:
(Start: 83 @47156 has 208 MA's), (118, 47111), (119, 47108), (146, 47039), (157, 46988),

Gene: LilTurb_84 Start: 47906, Stop: 47598, Start Num: 98
Candidate Starts for LilTurb_84:
(Start: 98 @47906 has 19 MA's), (Start: 100 @47903 has 33 MA's), (130, 47840), (166, 47681),

Gene: Lilbunny_83 Start: 45573, Stop: 45310, Start Num: 138
Candidate Starts for Lilbunny_83:

(25, 45873), (35, 45816), (37, 45813), (56, 45768), (115, 45645), (Start: 138 @45573 has 22 MA's), (141, 45561), (144, 45555), (153, 45516),

Gene: Lilith_78 Start: 45620, Stop: 45357, Start Num: 109
Candidate Starts for Lilith_78:
(73, 45683), (Start: 80 @45665 has 2 MA's), (Start: 109 @45620 has 105 MA's),

Gene: Lilleskat_84 Start: 47987, Stop: 47724, Start Num: 114
Candidate Starts for Lilleskat_84:
(Start: 99 @48005 has 25 MA's), (Start: 114 @47987 has 17 MA's), (Start: 123 @47966 has 3 MA's), (154, 47870),

Gene: LionsBait_82 Start: 48447, Stop: 48130, Start Num: 65
Candidate Starts for LionsBait_82:
(Start: 65 @48447 has 1 MA's), (121, 48408), (Start: 123 @48405 has 3 MA's), (143, 48345),

Gene: LittleB_75 Start: 45648, Stop: 45349, Start Num: 88
Candidate Starts for LittleB_75:
(Start: 88 @45648 has 121 MA's), (117, 45606),

Gene: LittleCherry_69 Start: 43824, Stop: 43522, Start Num: 90
Candidate Starts for LittleCherry_69:
(Start: 90 @43824 has 6 MA's), (111, 43797), (Start: 114 @43791 has 17 MA's), (160, 43638),

Gene: LittleGuy_75 Start: 45532, Stop: 45233, Start Num: 88
Candidate Starts for LittleGuy_75:
(Start: 88 @45532 has 121 MA's), (117, 45490),

Gene: LochMonster_76 Start: 45884, Stop: 45585, Start Num: 88
Candidate Starts for LochMonster_76:
(Start: 88 @45884 has 121 MA's), (117, 45842),

Gene: Lockley_73 Start: 46285, Stop: 45986, Start Num: 83
Candidate Starts for Lockley_73:
(Start: 67 @46315 has 1 MA's), (Start: 83 @46285 has 208 MA's), (118, 46240), (119, 46237), (146, 46168), (157, 46117),

Gene: Lokk_78 Start: 45975, Stop: 45661, Start Num: 81
Candidate Starts for Lokk_78:
(Start: 81 @45975 has 4 MA's), (Start: 114 @45948 has 17 MA's), (118, 45939), (151, 45852),

Gene: LoneWolf_87 Start: 48048, Stop: 47776, Start Num: 99
Candidate Starts for LoneWolf_87:
(Start: 99 @48048 has 25 MA's), (Start: 114 @48030 has 17 MA's), (Start: 123 @48009 has 3 MA's), (Start: 124 @48006 has 2 MA's),

Gene: Lopton_75 Start: 48247, Stop: 47948, Start Num: 83
Candidate Starts for Lopton_75:
(Start: 67 @48277 has 1 MA's), (Start: 83 @48247 has 208 MA's), (118, 48202), (119, 48199), (146, 48130), (157, 48079),

Gene: Lorenzo_75 Start: 45645, Stop: 45346, Start Num: 88
Candidate Starts for Lorenzo_75:

(Start: 88 @45645 has 121 MA's),

Gene: Loser_86 Start: 48364, Stop: 48065, Start Num: 103
Candidate Starts for Loser_86:
(Start: 103 @48364 has 12 MA's), (Start: 109 @48352 has 105 MA's), (Start: 110 @48349 has 4 MA's), (111, 48346), (121, 48325), (130, 48304),

Gene: Louie6_79 Start: 45658, Stop: 45395, Start Num: 109
Candidate Starts for Louie6_79:
(73, 45721), (Start: 80 @45703 has 2 MA's), (Start: 109 @45658 has 105 MA's), (118, 45637),

Gene: Lowa_77 Start: 45619, Stop: 45356, Start Num: 109
Candidate Starts for Lowa_77:
(73, 45682), (Start: 80 @45664 has 2 MA's), (Start: 109 @45619 has 105 MA's),

Gene: Luchador_82 Start: 47356, Stop: 47087, Start Num: 110
Candidate Starts for Luchador_82:
(42, 47488), (47, 47476), (72, 47413), (Start: 110 @47356 has 4 MA's), (Start: 123 @47326 has 3 MA's), (125, 47320), (139, 47272),

Gene: Lucivia_85 Start: 46869, Stop: 46573, Start Num: 97
Candidate Starts for Lucivia_85:
(Start: 97 @46869 has 26 MA's), (106, 46860), (108, 46857), (120, 46830), (Start: 124 @46821 has 2 MA's), (154, 46731),

Gene: Lucyedi_82 Start: 47034, Stop: 46771, Start Num: 99
Candidate Starts for Lucyedi_82:
(6, 47598), (21, 47280), (Start: 99 @47034 has 25 MA's), (Start: 123 @46998 has 3 MA's), (Start: 124 @46995 has 2 MA's),

Gene: LugYA_83 Start: 45631, Stop: 45368, Start Num: 109
Candidate Starts for LugYA_83:
(73, 45694), (Start: 80 @45676 has 2 MA's), (Start: 109 @45631 has 105 MA's), (118, 45610),

Gene: Lunsford_75 Start: 45640, Stop: 45341, Start Num: 88
Candidate Starts for Lunsford_75:
(Start: 88 @45640 has 121 MA's), (117, 45598),

Gene: MA5_77 Start: 45054, Stop: 44770, Start Num: 109
Candidate Starts for MA5_77:
(Start: 109 @45054 has 105 MA's), (162, 44850),

Gene: MK4_72 Start: 43576, Stop: 43289, Start Num: 107
Candidate Starts for MK4_72:
(Start: 91 @43594 has 2 MA's), (Start: 107 @43576 has 7 MA's), (Start: 109 @43573 has 105 MA's), (154, 43453), (162, 43369),

Gene: MPlant7149_76 Start: 46801, Stop: 46502, Start Num: 83
Candidate Starts for MPlant7149_76:
(Start: 67 @46831 has 1 MA's), (Start: 83 @46801 has 208 MA's), (118, 46756), (119, 46753), (146, 46684), (157, 46633),

Gene: MaCh_84 Start: 46833, Stop: 46537, Start Num: 97

Candidate Starts for MaCh_84:
(Start: 97 @46833 has 26 MA's), (106, 46824), (108, 46821), (120, 46794), (Start: 124 @46785 has 2 MA's), (154, 46695),

Gene: Mabel_84 Start: 46834, Stop: 46538, Start Num: 97
Candidate Starts for Mabel_84:
(Start: 97 @46834 has 26 MA's), (106, 46825), (108, 46822), (120, 46795), (Start: 124 @46786 has 2 MA's), (154, 46696),

Gene: MadMarie_78 Start: 45628, Stop: 45365, Start Num: 109
Candidate Starts for MadMarie_78:
(73, 45691), (Start: 80 @45673 has 2 MA's), (Start: 109 @45628 has 105 MA's), (118, 45607),

Gene: Magnar_72 Start: 45929, Stop: 45630, Start Num: 83
Candidate Starts for Magnar_72:
(Start: 67 @45959 has 1 MA's), (Start: 83 @45929 has 208 MA's), (118, 45884), (119, 45881), (146, 45812), (157, 45761),

Gene: Magnito_75 Start: 46242, Stop: 45943, Start Num: 83
Candidate Starts for Magnito_75:
(Start: 83 @46242 has 208 MA's), (118, 46197), (119, 46194), (146, 46125), (157, 46074),

Gene: Mainiac_79 Start: 45620, Stop: 45357, Start Num: 109
Candidate Starts for Mainiac_79:
(73, 45683), (Start: 80 @45665 has 2 MA's), (Start: 109 @45620 has 105 MA's),

Gene: MajorMajor_80 Start: 45106, Stop: 44831, Start Num: 101
Candidate Starts for MajorMajor_80:
(21, 45355), (Start: 101 @45106 has 17 MA's), (Start: 116 @45085 has 1 MA's), (120, 45073),

Gene: Makemake_79 Start: 47852, Stop: 47553, Start Num: 83
Candidate Starts for Makemake_79:
(Start: 67 @47882 has 1 MA's), (Start: 83 @47852 has 208 MA's), (118, 47807), (119, 47804), (146, 47735), (157, 47684),

Gene: Malec_82 Start: 48043, Stop: 47726, Start Num: 100
Candidate Starts for Malec_82:
(Start: 100 @48043 has 33 MA's), (Start: 103 @48040 has 12 MA's), (121, 48001), (130, 47980), (165, 47815),

Gene: Malinsilva_83 Start: 45619, Stop: 45356, Start Num: 109
Candidate Starts for Malinsilva_83:
(73, 45682), (Start: 80 @45664 has 2 MA's), (Start: 109 @45619 has 105 MA's),

Gene: Maminiaina_86 Start: 47971, Stop: 47693, Start Num: 99
Candidate Starts for Maminiaina_86:
(Start: 99 @47971 has 25 MA's), (Start: 123 @47932 has 3 MA's),

Gene: Manatee_74 Start: 45782, Stop: 45483, Start Num: 83
Candidate Starts for Manatee_74:
(Start: 67 @45812 has 1 MA's), (Start: 83 @45782 has 208 MA's), (118, 45737), (119, 45734), (146, 45665),

Gene: Manu_79 Start: 45442, Stop: 45179, Start Num: 109
Candidate Starts for Manu_79:
(73, 45505), (Start: 80 @45487 has 2 MA's), (Start: 109 @45442 has 105 MA's), (118, 45421),

Gene: MarQuardt_80 Start: 45629, Stop: 45366, Start Num: 109
Candidate Starts for MarQuardt_80:
(73, 45692), (Start: 80 @45674 has 2 MA's), (Start: 109 @45629 has 105 MA's), (118, 45608),

Gene: Marcell_69 Start: 44549, Stop: 44250, Start Num: 83
Candidate Starts for Marcell_69:
(58, 44609), (Start: 83 @44549 has 208 MA's), (118, 44504), (119, 44501), (146, 44432), (157, 44381),

Gene: Marchesa_78 Start: 45958, Stop: 45674, Start Num: 109
Candidate Starts for Marchesa_78:
(Start: 109 @45958 has 105 MA's), (162, 45754),

Gene: Marchy_68 Start: 43353, Stop: 43054, Start Num: 83
Candidate Starts for Marchy_68:
(58, 43413), (Start: 83 @43353 has 208 MA's), (118, 43308), (119, 43305), (146, 43236), (157, 43185),

Gene: Marco3_79 Start: 48503, Stop: 48204, Start Num: 83
Candidate Starts for Marco3_79:
(58, 48563), (Start: 83 @48503 has 208 MA's), (118, 48458), (119, 48455), (146, 48386), (157, 48335),

Gene: Marge_73 Start: 46046, Stop: 45747, Start Num: 83
Candidate Starts for Marge_73:
(58, 46106), (Start: 83 @46046 has 208 MA's), (118, 46001), (119, 45998), (146, 45929), (150, 45917), (157, 45878),

Gene: Margo_79 Start: 46027, Stop: 45746, Start Num: 107
Candidate Starts for Margo_79:
(Start: 91 @46045 has 2 MA's), (Start: 107 @46027 has 7 MA's), (Start: 109 @46024 has 105 MA's),

Gene: Marie_78 Start: 45630, Stop: 45367, Start Num: 109
Candidate Starts for Marie_78:
(73, 45693), (Start: 80 @45675 has 2 MA's), (Start: 109 @45630 has 105 MA's), (118, 45609),

Gene: Marius_80 Start: 45435, Stop: 45172, Start Num: 109
Candidate Starts for Marius_80:
(73, 45498), (Start: 80 @45480 has 2 MA's), (Start: 109 @45435 has 105 MA's), (118, 45414),

Gene: Maroc7_78 Start: 48845, Stop: 48546, Start Num: 83
Candidate Starts for Maroc7_78:
(58, 48905), (Start: 83 @48845 has 208 MA's), (118, 48800), (119, 48797), (146, 48728), (157, 48677),

Gene: Marsha_76 Start: 48488, Stop: 48189, Start Num: 83
Candidate Starts for Marsha_76:
(Start: 83 @48488 has 208 MA's), (118, 48443), (119, 48440), (146, 48371), (157, 48320),

Gene: MaryBeth_74 Start: 47072, Stop: 46773, Start Num: 83
Candidate Starts for MaryBeth_74:
(Start: 67 @47102 has 1 MA's), (Start: 83 @47072 has 208 MA's), (118, 47027), (119, 47024), (146, 46955), (157, 46904),

Gene: Maverick_74 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for Maverick_74:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: Maxo_77 Start: 45650, Stop: 45351, Start Num: 88
Candidate Starts for Maxo_77:
(Start: 88 @45650 has 121 MA's), (117, 45608),

Gene: Mayonnaise_72 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for Mayonnaise_72:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: Mazhar510_75 Start: 45645, Stop: 45346, Start Num: 88
Candidate Starts for Mazhar510_75:
(Start: 88 @45645 has 121 MA's), (117, 45603),

Gene: McFly_83 Start: 45909, Stop: 45619, Start Num: 94
Candidate Starts for McFly_83:
(30, 46053), (41, 46023), (64, 45957), (Start: 66 @45951 has 1 MA's), (Start: 94 @45909 has 17 MA's), (Start: 123 @45867 has 3 MA's), (Start: 124 @45864 has 2 MA's), (Start: 126 @45858 has 1 MA's), (128, 45855), (131, 45846), (149, 45789),

Gene: McGuire_76 Start: 46085, Stop: 45786, Start Num: 83
Candidate Starts for McGuire_76:
(58, 46145), (Start: 83 @46085 has 208 MA's), (118, 46040), (119, 46037), (146, 45968), (157, 45917),

Gene: McSinger_75 Start: 47215, Stop: 46916, Start Num: 83
Candidate Starts for McSinger_75:
(58, 47275), (Start: 83 @47215 has 208 MA's), (118, 47170), (119, 47167), (146, 47098), (157, 47047),

Gene: Medusa_74 Start: 45660, Stop: 45361, Start Num: 88
Candidate Starts for Medusa_74:
(Start: 88 @45660 has 121 MA's), (117, 45618),

Gene: MeeZee_74 Start: 45641, Stop: 45342, Start Num: 88
Candidate Starts for MeeZee_74:
(Start: 88 @45641 has 121 MA's), (117, 45599),

Gene: MegTheThird_83 Start: 47371, Stop: 47141, Start Num: 124
Candidate Starts for MegTheThird_83:
(Start: 99 @47410 has 25 MA's), (Start: 123 @47374 has 3 MA's), (Start: 124 @47371 has 2 MA's), (155, 47272),

Gene: Melvin_77 Start: 45642, Stop: 45343, Start Num: 88
Candidate Starts for Melvin_77:
(Start: 88 @45642 has 121 MA's), (117, 45600),

Gene: MetalQZJ_73 Start: 47072, Stop: 46773, Start Num: 83
Candidate Starts for MetalQZJ_73:
(Start: 67 @47102 has 1 MA's), (Start: 83 @47072 has 208 MA's), (118, 47027), (119, 47024), (146, 46955), (157, 46904),

Gene: Methuselah_73 Start: 45651, Stop: 45388, Start Num: 109
Candidate Starts for Methuselah_73:
(73, 45714), (Start: 80 @45696 has 2 MA's), (Start: 109 @45651 has 105 MA's), (118, 45630),

Gene: Micasa_70 Start: 44223, Stop: 43924, Start Num: 92
Candidate Starts for Micasa_70:
(85, 44235), (Start: 92 @44223 has 7 MA's), (Start: 97 @44217 has 26 MA's), (119, 44181), (Start: 124 @44169 has 2 MA's), (154, 44079), (160, 44040),

Gene: Michley_77 Start: 46813, Stop: 46514, Start Num: 83
Candidate Starts for Michley_77:
(58, 46873), (Start: 83 @46813 has 208 MA's), (118, 46768), (119, 46765), (146, 46696), (157, 46645),

Gene: Microwolf_76 Start: 45643, Stop: 45380, Start Num: 109
Candidate Starts for Microwolf_76:
(73, 45706), (Start: 80 @45688 has 2 MA's), (Start: 109 @45643 has 105 MA's),

Gene: MiculUcigas_83 Start: 47170, Stop: 46859, Start Num: 100
Candidate Starts for MiculUcigas_83:
(Start: 100 @47170 has 33 MA's), (108, 47158), (Start: 110 @47152 has 4 MA's), (121, 47128), (Start: 124 @47122 has 2 MA's), (130, 47107),

Gene: Midas2_67 Start: 44122, Stop: 43820, Start Num: 90
Candidate Starts for Midas2_67:
(Start: 90 @44122 has 6 MA's), (121, 44071), (Start: 123 @44068 has 3 MA's), (156, 43960), (160, 43936),

Gene: Miko_78 Start: 46737, Stop: 46423, Start Num: 81
Candidate Starts for Miko_78:
(Start: 81 @46737 has 4 MA's), (Start: 114 @46710 has 17 MA's), (118, 46701),

Gene: Milcery_70 Start: 44007, Stop: 43711, Start Num: 95
Candidate Starts for Milcery_70:
(Start: 95 @44007 has 11 MA's), (111, 43986), (Start: 114 @43980 has 17 MA's), (154, 43866), (156, 43851), (160, 43827),

Gene: Millski_74 Start: 45648, Stop: 45349, Start Num: 88
Candidate Starts for Millski_74:
(Start: 88 @45648 has 121 MA's), (117, 45606),

Gene: Minispark_84 Start: 47433, Stop: 47182, Start Num: 114
Candidate Starts for Minispark_84:
(Start: 99 @47451 has 25 MA's), (Start: 114 @47433 has 17 MA's), (Start: 123 @47412 has 3 MA's),

Gene: Miramae_74 Start: 45242, Stop: 44946, Start Num: 86
Candidate Starts for Miramae_74:
(Start: 86 @45242 has 4 MA's), (Start: 116 @45221 has 1 MA's), (Start: 123 @45203 has 3 MA's), (148, 45134),

Gene: MissWhite_76 Start: 44037, Stop: 43771, Start Num: 99
Candidate Starts for MissWhite_76:
(5, 44595), (21, 44283), (Start: 99 @44037 has 25 MA's), (113, 44019), (Start: 123 @44001 has 3 MA's), (135, 43965), (160, 43869),

Gene: Mkhuseli_73 Start: 44816, Stop: 44517, Start Num: 83
Candidate Starts for Mkhuseli_73:
(Start: 83 @44816 has 208 MA's), (118, 44771), (119, 44768), (146, 44699), (154, 44672), (157, 44648),

Gene: Molly_76 Start: 46458, Stop: 46159, Start Num: 83
Candidate Starts for Molly_76:
(Start: 67 @46488 has 1 MA's), (Start: 83 @46458 has 208 MA's), (118, 46413), (119, 46410), (146, 46341), (157, 46290),

Gene: Monet_80 Start: 48495, Stop: 48196, Start Num: 83
Candidate Starts for Monet_80:
(58, 48555), (Start: 83 @48495 has 208 MA's), (118, 48450), (119, 48447), (146, 48378), (157, 48327),

Gene: MoneyMay_80 Start: 45630, Stop: 45367, Start Num: 109
Candidate Starts for MoneyMay_80:
(73, 45693), (Start: 80 @45675 has 2 MA's), (Start: 109 @45630 has 105 MA's), (118, 45609),

Gene: Montavir_75 Start: 45627, Stop: 45364, Start Num: 109
Candidate Starts for Montavir_75:
(73, 45690), (Start: 80 @45672 has 2 MA's), (Start: 109 @45627 has 105 MA's), (118, 45606),

Gene: Moose_78 Start: 47631, Stop: 47332, Start Num: 83
Candidate Starts for Moose_78:
(Start: 67 @47661 has 1 MA's), (Start: 83 @47631 has 208 MA's), (118, 47586), (119, 47583), (146, 47514), (157, 47463),

Gene: Morpher26_74 Start: 45732, Stop: 45418, Start Num: 61
Candidate Starts for Morpher26_74:
(Start: 61 @45732 has 2 MA's), (Start: 62 @45729 has 13 MA's), (Start: 71 @45711 has 2 MA's), (74, 45708), (Start: 94 @45678 has 17 MA's), (Start: 123 @45666 has 3 MA's), (134, 45627), (149, 45594),

Gene: Morrow_77 Start: 45687, Stop: 45388, Start Num: 88
Candidate Starts for Morrow_77:
(Start: 88 @45687 has 121 MA's), (117, 45645),

Gene: MrGordo_77 Start: 46387, Stop: 46088, Start Num: 83
Candidate Starts for MrGordo_77:
(75, 46405), (Start: 83 @46387 has 208 MA's), (118, 46342), (119, 46339), (146, 46270), (157, 46219),

Gene: Mryolo_71 Start: 45416, Stop: 45117, Start Num: 83
Candidate Starts for Mryolo_71:
(Start: 67 @45446 has 1 MA's), (Start: 83 @45416 has 208 MA's), (118, 45371), (119, 45368), (146, 45299), (157, 45248),

Gene: MuchMore_83 Start: 45616, Stop: 45353, Start Num: 109
Candidate Starts for MuchMore_83:
(73, 45679), (Start: 80 @45661 has 2 MA's), (Start: 109 @45616 has 105 MA's),

Gene: Mulciber_82 Start: 46375, Stop: 46079, Start Num: 97
Candidate Starts for Mulciber_82:

(Start: 97 @46375 has 26 MA's), (106, 46366), (120, 46336), (Start: 124 @46327 has 2 MA's), (154, 46237),

Gene: Mule_75 Start: 46498, Stop: 46199, Start Num: 83
Candidate Starts for Mule_75:
(Start: 67 @46528 has 1 MA's), (Start: 83 @46498 has 208 MA's), (118, 46453), (119, 46450), (146, 46381), (157, 46330),

Gene: Munch_84 Start: 46838, Stop: 46542, Start Num: 97
Candidate Starts for Munch_84:
(Start: 97 @46838 has 26 MA's), (106, 46829), (108, 46826), (120, 46799), (Start: 124 @46790 has 2 MA's), (154, 46700),

Gene: Mundrea_74 Start: 45707, Stop: 45417, Start Num: 86
Candidate Starts for Mundrea_74:
(Start: 86 @45707 has 4 MA's), (Start: 116 @45686 has 1 MA's), (Start: 123 @45668 has 3 MA's), (Start: 126 @45659 has 1 MA's), (149, 45596),

Gene: Museum_76 Start: 47521, Stop: 47222, Start Num: 83
Candidate Starts for Museum_76:
(Start: 67 @47551 has 1 MA's), (Start: 83 @47521 has 208 MA's), (118, 47476), (119, 47473), (146, 47404), (157, 47353),

Gene: MyraDee_79 Start: 44293, Stop: 44003, Start Num: 102
Candidate Starts for MyraDee_79:
(Start: 102 @44293 has 1 MA's), (122, 44254),

Gene: Myxus_87 Start: 48032, Stop: 47766, Start Num: 114
Candidate Starts for Myxus_87:
(Start: 99 @48050 has 25 MA's), (Start: 114 @48032 has 17 MA's), (Start: 123 @48011 has 3 MA's), (154, 47915),

Gene: NEHalo_72 Start: 46331, Stop: 46032, Start Num: 83
Candidate Starts for NEHalo_72:
(Start: 67 @46361 has 1 MA's), (Start: 83 @46331 has 208 MA's), (118, 46286), (119, 46283), (146, 46214), (157, 46163),

Gene: NaSiaTalie_84 Start: 47457, Stop: 47146, Start Num: 100
Candidate Starts for NaSiaTalie_84:
(Start: 100 @47457 has 33 MA's), (108, 47445), (121, 47415), (Start: 124 @47409 has 2 MA's), (130, 47394),

Gene: Naca_73 Start: 45403, Stop: 45119, Start Num: 109
Candidate Starts for Naca_73:
(Start: 97 @45415 has 26 MA's), (Start: 109 @45403 has 105 MA's), (120, 45376), (154, 45271), (157, 45247),

Gene: Naira_78 Start: 48004, Stop: 47705, Start Num: 83
Candidate Starts for Naira_78:
(58, 48064), (Start: 83 @48004 has 208 MA's), (118, 47959), (119, 47956), (146, 47887), (157, 47836),

Gene: Nebs_76 Start: 45687, Stop: 45388, Start Num: 88
Candidate Starts for Nebs_76:

(Start: 88 @45687 has 121 MA's), (117, 45645),

Gene: Neeharika16_82 Start: 45659, Stop: 45369, Start Num: 94
Candidate Starts for Neeharika16_82:
(30, 45803), (41, 45773), (64, 45707), (Start: 66 @45701 has 1 MA's), (Start: 94 @45659 has 17 MA's), (Start: 123 @45617 has 3 MA's), (Start: 124 @45614 has 2 MA's), (Start: 126 @45608 has 1 MA's), (128, 45605), (131, 45596), (149, 45539),

Gene: Nemo27_74 Start: 45643, Stop: 45344, Start Num: 88
Candidate Starts for Nemo27_74:
(Start: 88 @45643 has 121 MA's), (117, 45601),

Gene: Nerujay_80 Start: 48773, Stop: 48474, Start Num: 83
Candidate Starts for Nerujay_80:
(22, 48980), (24, 48953), (29, 48911), (30, 48908), (36, 48881), (43, 48869), (46, 48860), (52, 48845), (59, 48830), (75, 48791), (Start: 83 @48773 has 208 MA's), (118, 48728), (119, 48725), (146, 48656), (157, 48605),

Gene: Newrala_82 Start: 45995, Stop: 45705, Start Num: 94
Candidate Starts for Newrala_82:
(30, 46139), (41, 46109), (64, 46043), (Start: 66 @46037 has 1 MA's), (Start: 94 @45995 has 17 MA's), (Start: 123 @45953 has 3 MA's), (Start: 124 @45950 has 2 MA's), (Start: 126 @45944 has 1 MA's), (128, 45941), (131, 45932), (149, 45875),

Gene: Nhonho_72 Start: 46492, Stop: 46193, Start Num: 83
Candidate Starts for Nhonho_72:
(77, 46501), (Start: 83 @46492 has 208 MA's), (118, 46447), (119, 46444), (146, 46375), (157, 46324),

Gene: NicoleTera_81 Start: 47391, Stop: 47083, Start Num: 100
Candidate Starts for NicoleTera_81:
(Start: 100 @47391 has 33 MA's), (121, 47352), (130, 47331),

Gene: Niza_76 Start: 47804, Stop: 47505, Start Num: 83
Candidate Starts for Niza_76:
(Start: 67 @47834 has 1 MA's), (Start: 83 @47804 has 208 MA's), (118, 47759), (119, 47756), (146, 47687), (157, 47636),

Gene: Noella_80 Start: 46000, Stop: 45722, Start Num: 109
Candidate Starts for Noella_80:
(Start: 91 @46021 has 2 MA's), (Start: 107 @46003 has 7 MA's), (Start: 109 @46000 has 105 MA's),

Gene: Noelle_75 Start: 46056, Stop: 45739, Start Num: 62
Candidate Starts for Noelle_75:
(Start: 61 @46059 has 2 MA's), (Start: 62 @46056 has 13 MA's), (Start: 71 @46038 has 2 MA's), (74, 46035), (Start: 123 @45990 has 3 MA's), (134, 45951), (149, 45918),

Gene: Norbert_75 Start: 46000, Stop: 45719, Start Num: 107
Candidate Starts for Norbert_75:
(Start: 91 @46018 has 2 MA's), (Start: 107 @46000 has 7 MA's), (Start: 109 @45997 has 105 MA's),

Gene: NorthStar_72 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for NorthStar_72:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: Norz_72 Start: 47994, Stop: 47695, Start Num: 83
Candidate Starts for Norz_72:
(58, 48054), (Start: 83 @47994 has 208 MA's), (118, 47949), (119, 47946), (146, 47877), (157, 47826),

Gene: NotAPhaseMom_74 Start: 45648, Stop: 45349, Start Num: 88
Candidate Starts for NotAPhaseMom_74:
(Start: 88 @45648 has 121 MA's), (117, 45606),

Gene: NothingSpecial_78 Start: 47348, Stop: 47028, Start Num: 103
Candidate Starts for NothingSpecial_78:
(1, 48203), (7, 47891), (19, 47591), (Start: 103 @47348 has 12 MA's), (Start: 110 @47333 has 4 MA's), (118, 47315), (Start: 124 @47300 has 2 MA's), (129, 47288), (166, 47120),

Gene: Noxious_69 Start: 45532, Stop: 45233, Start Num: 83
Candidate Starts for Noxious_69:
(Start: 83 @45532 has 208 MA's), (118, 45487), (119, 45484), (146, 45415), (157, 45364),

Gene: Nyxis_74 Start: 45526, Stop: 45227, Start Num: 88
Candidate Starts for Nyxis_74:
(Start: 88 @45526 has 121 MA's), (117, 45484),

Gene: OKCentral2016_82 Start: 47617, Stop: 47324, Start Num: 96
Candidate Starts for OKCentral2016_82:
(11, 47977), (18, 47881), (Start: 96 @47617 has 15 MA's), (128, 47563),

Gene: OKaNui_74 Start: 45697, Stop: 45398, Start Num: 88
Candidate Starts for OKaNui_74:
(Start: 88 @45697 has 121 MA's), (117, 45655),

Gene: Obama12_76 Start: 46071, Stop: 45769, Start Num: 88
Candidate Starts for Obama12_76:
(Start: 88 @46071 has 121 MA's), (117, 46029), (149, 45951),

Gene: Ohfah_76 Start: 45687, Stop: 45388, Start Num: 88
Candidate Starts for Ohfah_76:
(Start: 88 @45687 has 121 MA's), (117, 45645),

Gene: Ohno789_79 Start: 48554, Stop: 48255, Start Num: 83
Candidate Starts for Ohno789_79:
(Start: 67 @48584 has 1 MA's), (Start: 83 @48554 has 208 MA's), (118, 48509), (119, 48506), (146, 48437), (157, 48386),

Gene: OlanP_78 Start: 45614, Stop: 45351, Start Num: 109
Candidate Starts for OlanP_78:
(73, 45677), (Start: 80 @45659 has 2 MA's), (Start: 109 @45614 has 105 MA's), (118, 45593),

Gene: Ollie_80 Start: 45498, Stop: 45235, Start Num: 109
Candidate Starts for Ollie_80:
(73, 45561), (Start: 80 @45543 has 2 MA's), (Start: 109 @45498 has 105 MA's), (118, 45477),

Gene: Onglai_85 Start: 46179, Stop: 45916, Start Num: 114
Candidate Starts for Onglai_85:

(Start: 99 @46197 has 25 MA's), (Start: 114 @46179 has 17 MA's), (Start: 123 @46158 has 3 MA's), (154, 46062),

Gene: Oogway_75 Start: 47385, Stop: 47086, Start Num: 83
Candidate Starts for Oogway_75:
(58, 47445), (Start: 83 @47385 has 208 MA's), (118, 47340), (119, 47337), (146, 47268), (157, 47217),

Gene: Orange_84 Start: 46388, Stop: 46092, Start Num: 97
Candidate Starts for Orange_84:
(Start: 97 @46388 has 26 MA's), (106, 46379), (108, 46376), (120, 46349), (Start: 124 @46340 has 2 MA's), (154, 46250),

Gene: P28Green_80 Start: 45633, Stop: 45370, Start Num: 109
Candidate Starts for P28Green_80:
(73, 45696), (Start: 80 @45678 has 2 MA's), (Start: 109 @45633 has 105 MA's), (118, 45612),

Gene: PGHhamlin_82 Start: 45619, Stop: 45356, Start Num: 109
Candidate Starts for PGHhamlin_82:
(73, 45682), (Start: 80 @45664 has 2 MA's), (Start: 109 @45619 has 105 MA's),

Gene: PP_76 Start: 49639, Stop: 49325, Start Num: 78
Candidate Starts for PP_76:
(63, 49672), (Start: 78 @49639 has 1 MA's), (82, 49633), (105, 49600), (117, 49576), (Start: 124 @49558 has 2 MA's), (129, 49546),

Gene: PSullivan_74 Start: 45604, Stop: 45305, Start Num: 83
Candidate Starts for PSullivan_74:
(Start: 67 @45634 has 1 MA's), (Start: 83 @45604 has 208 MA's), (118, 45559), (119, 45556), (146, 45487), (157, 45436),

Gene: PacerPaul_81 Start: 48867, Stop: 48568, Start Num: 83
Candidate Starts for PacerPaul_81:
(58, 48927), (Start: 83 @48867 has 208 MA's), (118, 48822), (119, 48819), (146, 48750), (157, 48699),

Gene: PainterBoy_82 Start: 46744, Stop: 46481, Start Num: 99
Candidate Starts for PainterBoy_82:
(6, 47308), (21, 46990), (Start: 99 @46744 has 25 MA's), (Start: 123 @46708 has 3 MA's), (Start: 124 @46705 has 2 MA's),

Gene: Palestino_74 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for Palestino_74:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: Panamaxus_76 Start: 45999, Stop: 45721, Start Num: 109
Candidate Starts for Panamaxus_76:
(Start: 91 @46020 has 2 MA's), (Start: 107 @46002 has 7 MA's), (Start: 109 @45999 has 105 MA's), (118, 45981),

Gene: Papez_78 Start: 47995, Stop: 47696, Start Num: 83
Candidate Starts for Papez_78:
(58, 48055), (Start: 83 @47995 has 208 MA's), (118, 47950), (119, 47947), (146, 47878), (157, 47827),

Gene: Paphu_71 Start: 46029, Stop: 45730, Start Num: 83

Candidate Starts for Paphu_71:
(Start: 67 @46059 has 1 MA's), (Start: 83 @46029 has 208 MA's), (118, 45984), (119, 45981), (146, 45912), (157, 45861),

Gene: Paraselene_74 Start: 46678, Stop: 46379, Start Num: 83
Candidate Starts for Paraselene_74:
(58, 46738), (Start: 83 @46678 has 208 MA's), (118, 46633), (119, 46630), (146, 46561), (157, 46510),

Gene: Pari_81 Start: 47398, Stop: 47099, Start Num: 83
Candidate Starts for Pari_81:
(Start: 67 @47428 has 1 MA's), (Start: 83 @47398 has 208 MA's), (118, 47353), (119, 47350), (146, 47281), (157, 47230),

Gene: Parliament_77 Start: 49579, Stop: 49280, Start Num: 83
Candidate Starts for Parliament_77:
(Start: 67 @49609 has 1 MA's), (Start: 83 @49579 has 208 MA's), (118, 49534), (119, 49531), (146, 49462), (157, 49411),

Gene: PascalRango_74 Start: 46673, Stop: 46374, Start Num: 83
Candidate Starts for PascalRango_74:
(Start: 67 @46703 has 1 MA's), (Start: 83 @46673 has 208 MA's), (118, 46628), (119, 46625), (146, 46556), (157, 46505),

Gene: PattyP_76 Start: 47227, Stop: 46928, Start Num: 83
Candidate Starts for PattyP_76:
(Start: 67 @47257 has 1 MA's), (Start: 83 @47227 has 208 MA's), (118, 47182), (119, 47179), (146, 47110), (157, 47059),

Gene: Pawn_78 Start: 45442, Stop: 45179, Start Num: 109
Candidate Starts for Pawn_78:
(73, 45505), (Start: 80 @45487 has 2 MA's), (Start: 109 @45442 has 105 MA's), (118, 45421),

Gene: PeaceMeal1_80 Start: 47544, Stop: 47254, Start Num: 96
Candidate Starts for PeaceMeal1_80:
(2, 48351), (3, 48330), (4, 48318), (11, 47904), (18, 47808), (Start: 96 @47544 has 15 MA's), (Start: 110 @47529 has 4 MA's), (120, 47511),

Gene: Peaches_73 Start: 45646, Stop: 45347, Start Num: 88
Candidate Starts for Peaches_73:
(Start: 88 @45646 has 121 MA's), (117, 45604),

Gene: Pelly_79 Start: 49760, Stop: 49461, Start Num: 83
Candidate Starts for Pelly_79:
(Start: 67 @49790 has 1 MA's), (Start: 83 @49760 has 208 MA's), (118, 49715), (119, 49712), (146, 49643), (157, 49592),

Gene: Pembroke_80 Start: 45628, Stop: 45365, Start Num: 109
Candidate Starts for Pembroke_80:
(73, 45691), (Start: 80 @45673 has 2 MA's), (Start: 109 @45628 has 105 MA's),

Gene: Penny1_80 Start: 45631, Stop: 45368, Start Num: 109
Candidate Starts for Penny1_80:
(73, 45694), (Start: 80 @45676 has 2 MA's), (Start: 109 @45631 has 105 MA's), (118, 45610),

Gene: Pepe_70 Start: 44682, Stop: 44383, Start Num: 83
Candidate Starts for Pepe_70:
(58, 44742), (Start: 83 @44682 has 208 MA's), (118, 44637), (119, 44634), (146, 44565), (157, 44514),

Gene: Perplexer_74 Start: 45711, Stop: 45394, Start Num: 62
Candidate Starts for Perplexer_74:
(Start: 61 @45714 has 2 MA's), (Start: 62 @45711 has 13 MA's), (68, 45696), (Start: 94 @45660 has 17 MA's), (Start: 123 @45645 has 3 MA's), (134, 45606), (149, 45573),

Gene: Perseus_76 Start: 48660, Stop: 48361, Start Num: 83
Candidate Starts for Perseus_76:
(Start: 67 @48690 has 1 MA's), (Start: 83 @48660 has 208 MA's), (118, 48615), (119, 48612), (146, 48543), (157, 48492),

Gene: PeterPeter_75 Start: 45641, Stop: 45342, Start Num: 88
Candidate Starts for PeterPeter_75:
(Start: 88 @45641 has 121 MA's), (117, 45599),

Gene: Petersenfast_78 Start: 45269, Stop: 44973, Start Num: 97
Candidate Starts for Petersenfast_78:
(Start: 97 @45269 has 26 MA's), (106, 45260), (108, 45257), (120, 45230), (Start: 124 @45221 has 2 MA's), (154, 45131),

Gene: Peterson_75 Start: 47826, Stop: 47527, Start Num: 83
Candidate Starts for Peterson_75:
(58, 47886), (Start: 83 @47826 has 208 MA's), (118, 47781), (119, 47778), (146, 47709), (157, 47658),

Gene: PetiteSangsue_74 Start: 45714, Stop: 45397, Start Num: 62
Candidate Starts for PetiteSangsue_74:
(Start: 61 @45717 has 2 MA's), (Start: 62 @45714 has 13 MA's), (68, 45699), (Start: 94 @45663 has 17 MA's), (Start: 123 @45648 has 3 MA's), (134, 45609), (149, 45576),

Gene: Petp2012_77 Start: 48008, Stop: 47709, Start Num: 83
Candidate Starts for Petp2012_77:
(58, 48068), (Start: 83 @48008 has 208 MA's), (118, 47963), (119, 47960), (146, 47891), (157, 47840),

Gene: Petruchio_76 Start: 46087, Stop: 45788, Start Num: 83
Candidate Starts for Petruchio_76:
(Start: 83 @46087 has 208 MA's), (118, 46042), (119, 46039), (146, 45970), (157, 45919),

Gene: PetterN_78 Start: 45190, Stop: 44906, Start Num: 109
Candidate Starts for PetterN_78:
(Start: 97 @45202 has 26 MA's), (Start: 109 @45190 has 105 MA's), (120, 45163), (154, 45058), (157, 45034),

Gene: Phacado_75 Start: 45643, Stop: 45344, Start Num: 88
Candidate Starts for Phacado_75:
(Start: 88 @45643 has 121 MA's), (117, 45601),

Gene: Phaded_76 Start: 48095, Stop: 47787, Start Num: 88
Candidate Starts for Phaded_76:
(Start: 88 @48095 has 121 MA's), (117, 48053), (134, 47993),

Gene: Phaeder_87 Start: 47907, Stop: 47641, Start Num: 114
Candidate Starts for Phaeder_87:
(Start: 99 @47925 has 25 MA's), (Start: 114 @47907 has 17 MA's), (Start: 123 @47886 has 3 MA's), (154, 47790),

Gene: Phantastic_80 Start: 45465, Stop: 45187, Start Num: 109
Candidate Starts for Phantastic_80:
(Start: 109 @45465 has 105 MA's),

Gene: Pharaoh_77 Start: 47219, Stop: 46926, Start Num: 99
Candidate Starts for Pharaoh_77:
(Start: 99 @47219 has 25 MA's), (Start: 116 @47195 has 1 MA's), (117, 47192), (128, 47168), (136, 47135),

Gene: Phelipe_76 Start: 45687, Stop: 45388, Start Num: 88
Candidate Starts for Phelipe_76:
(Start: 88 @45687 has 121 MA's), (117, 45645),

Gene: PherrisBueller_75 Start: 44946, Stop: 44647, Start Num: 83
Candidate Starts for PherrisBueller_75:
(58, 45006), (Start: 83 @44946 has 208 MA's), (118, 44901), (119, 44898), (146, 44829), (157, 44778),

Gene: Phighter1804_75 Start: 45708, Stop: 45409, Start Num: 88
Candidate Starts for Phighter1804_75:
(Start: 88 @45708 has 121 MA's), (117, 45666),

Gene: PhineBark_72 Start: 45958, Stop: 45659, Start Num: 83
Candidate Starts for PhineBark_72:
(Start: 67 @45988 has 1 MA's), (Start: 83 @45958 has 208 MA's), (118, 45913), (119, 45910), (146, 45841), (157, 45790),

Gene: PhishRPhriends_76 Start: 44622, Stop: 44359, Start Num: 109
Candidate Starts for PhishRPhriends_76:
(73, 44685), (Start: 80 @44667 has 2 MA's), (Start: 109 @44622 has 105 MA's), (118, 44601),

Gene: Phlippers_74 Start: 48309, Stop: 48010, Start Num: 83
Candidate Starts for Phlippers_74:
(58, 48369), (Start: 83 @48309 has 208 MA's), (118, 48264), (119, 48261), (146, 48192), (157, 48141),

Gene: Phlorence_69 Start: 44013, Stop: 43717, Start Num: 95
Candidate Starts for Phlorence_69:
(Start: 95 @44013 has 11 MA's), (111, 43992),

Gene: Phoebe_81 Start: 45623, Stop: 45360, Start Num: 109
Candidate Starts for Phoebe_81:
(73, 45686), (Start: 80 @45668 has 2 MA's), (Start: 109 @45623 has 105 MA's), (118, 45602),

Gene: Phonnegut_87 Start: 47920, Stop: 47657, Start Num: 114
Candidate Starts for Phonnegut_87:
(Start: 99 @47938 has 25 MA's), (Start: 114 @47920 has 17 MA's), (Start: 123 @47899 has 3 MA's), (154, 47803),

Gene: Phontbonne_75 Start: 45542, Stop: 45243, Start Num: 88
Candidate Starts for Phontbonne_75:
(Start: 88 @45542 has 121 MA's), (117, 45500),

Gene: Phoxy_80 Start: 45652, Stop: 45389, Start Num: 109
Candidate Starts for Phoxy_80:
(73, 45715), (Start: 80 @45697 has 2 MA's), (Start: 109 @45652 has 105 MA's), (118, 45631),

Gene: PhrostyMug_78 Start: 48672, Stop: 48373, Start Num: 83
Candidate Starts for PhrostyMug_78:
(Start: 67 @48702 has 1 MA's), (Start: 83 @48672 has 208 MA's), (118, 48627), (119, 48624), (146, 48555), (157, 48504),

Gene: PickleBack_71 Start: 44188, Stop: 43892, Start Num: 95
Candidate Starts for PickleBack_71:
(Start: 95 @44188 has 11 MA's), (111, 44167), (160, 44008),

Gene: PinkPlastic_72 Start: 45594, Stop: 45295, Start Num: 83
Candidate Starts for PinkPlastic_72:
(58, 45654), (Start: 83 @45594 has 208 MA's), (118, 45549), (119, 45546), (146, 45477), (157, 45426),

Gene: Pinto_76 Start: 47457, Stop: 47158, Start Num: 83
Candidate Starts for Pinto_76:
(58, 47517), (Start: 83 @47457 has 208 MA's), (118, 47412), (119, 47409), (128, 47391), (146, 47340), (157, 47289),

Gene: Pioneer_87 Start: 47920, Stop: 47657, Start Num: 114
Candidate Starts for Pioneer_87:
(Start: 99 @47938 has 25 MA's), (Start: 114 @47920 has 17 MA's), (Start: 123 @47899 has 3 MA's), (154, 47803),

Gene: Pipcraft_71 Start: 45648, Stop: 45349, Start Num: 88
Candidate Starts for Pipcraft_71:
(Start: 88 @45648 has 121 MA's), (117, 45606),

Gene: Pippin_77 Start: 47099, Stop: 46800, Start Num: 83
Candidate Starts for Pippin_77:
(58, 47159), (Start: 83 @47099 has 208 MA's), (118, 47054), (119, 47051), (146, 46982), (157, 46931),

Gene: Piro94_82 Start: 47405, Stop: 47094, Start Num: 100
Candidate Starts for Piro94_82:
(Start: 100 @47405 has 33 MA's), (108, 47393), (Start: 124 @47357 has 2 MA's), (130, 47342),

Gene: Pistachio_79 Start: 45583, Stop: 45311, Start Num: 109
Candidate Starts for Pistachio_79:
(Start: 109 @45583 has 105 MA's),

Gene: Pita2_77 Start: 47100, Stop: 46801, Start Num: 83
Candidate Starts for Pita2_77:
(Start: 67 @47130 has 1 MA's), (Start: 83 @47100 has 208 MA's), (118, 47055), (119, 47052), (146, 46983), (157, 46932),

Gene: Pmask_82 Start: 46196, Stop: 45906, Start Num: 94

Candidate Starts for Pmask_82:
(30, 46340), (41, 46310), (64, 46244), (Start: 66 @46238 has 1 MA's), (Start: 94 @46196 has 17 MA's), (Start: 123 @46154 has 3 MA's), (Start: 124 @46151 has 2 MA's), (Start: 126 @46145 has 1 MA's), (128, 46142), (131, 46133), (149, 46076),

Gene: Pocahontas_78 Start: 45995, Stop: 45717, Start Num: 109
Candidate Starts for Pocahontas_78:
(Start: 91 @46016 has 2 MA's), (Start: 107 @45998 has 7 MA's), (Start: 109 @45995 has 105 MA's), (118, 45977),

Gene: Polymorphads_76 Start: 45668, Stop: 45369, Start Num: 88
Candidate Starts for Polymorphads_76:
(Start: 88 @45668 has 121 MA's),

Gene: Pomar16_83 Start: 47270, Stop: 46992, Start Num: 101
Candidate Starts for Pomar16_83:
(Start: 101 @47270 has 17 MA's), (120, 47237), (Start: 123 @47231 has 3 MA's), (160, 47096),

Gene: Poompha_80 Start: 47542, Stop: 47252, Start Num: 96
Candidate Starts for Poompha_80:
(17, 47818), (Start: 96 @47542 has 15 MA's), (Start: 110 @47527 has 4 MA's), (120, 47509),

Gene: Popcicle_79 Start: 45995, Stop: 45717, Start Num: 109
Candidate Starts for Popcicle_79:
(Start: 91 @46016 has 2 MA's), (Start: 107 @45998 has 7 MA's), (Start: 109 @45995 has 105 MA's), (118, 45977),

Gene: PotatoSplit_81 Start: 45631, Stop: 45368, Start Num: 109
Candidate Starts for PotatoSplit_81:
(73, 45694), (Start: 80 @45676 has 2 MA's), (Start: 109 @45631 has 105 MA's), (118, 45610),

Gene: Power_83 Start: 47968, Stop: 47660, Start Num: 100
Candidate Starts for Power_83:
(Start: 100 @47968 has 33 MA's), (Start: 124 @47920 has 2 MA's), (130, 47905), (143, 47863), (166, 47746),

Gene: PowerRanger_72 Start: 47032, Stop: 46733, Start Num: 83
Candidate Starts for PowerRanger_72:
(58, 47092), (Start: 83 @47032 has 208 MA's), (118, 46987), (119, 46984), (146, 46915), (157, 46864),

Gene: Priamo_85 Start: 45857, Stop: 45609, Start Num: 123
Candidate Starts for Priamo_85:
(Start: 94 @45899 has 17 MA's), (Start: 123 @45857 has 3 MA's), (Start: 124 @45854 has 2 MA's), (Start: 126 @45848 has 1 MA's), (128, 45845), (131, 45836), (149, 45779),

Gene: Prinashe11_68 Start: 43827, Stop: 43531, Start Num: 95
Candidate Starts for Prinashe11_68:
(Start: 95 @43827 has 11 MA's), (111, 43806), (Start: 114 @43800 has 17 MA's), (160, 43647),

Gene: Priya_85 Start: 47691, Stop: 47428, Start Num: 114
Candidate Starts for Priya_85:
(Start: 99 @47709 has 25 MA's), (Start: 114 @47691 has 17 MA's), (Start: 123 @47670 has 3 MA's), (154, 47574),

Gene: ProMouse_76 Start: 46599, Stop: 46300, Start Num: 83
Candidate Starts for ProMouse_76:
(58, 46659), (Start: 83 @46599 has 208 MA's), (118, 46554), (119, 46551), (146, 46482), (157, 46431),

Gene: Prudy_78 Start: 47737, Stop: 47444, Start Num: 99
Candidate Starts for Prudy_78:
(Start: 99 @47737 has 25 MA's), (Start: 114 @47716 has 17 MA's), (Start: 116 @47713 has 1 MA's), (117, 47710), (Start: 124 @47692 has 2 MA's),

Gene: Pukovnik_77 Start: 47566, Stop: 47252, Start Num: 88
Candidate Starts for Pukovnik_77:
(Start: 88 @47566 has 121 MA's), (117, 47524), (149, 47446), (163, 47344),

Gene: Pumbaa_75 Start: 45592, Stop: 45293, Start Num: 88
Candidate Starts for Pumbaa_75:
(Start: 88 @45592 has 121 MA's), (117, 45550),

Gene: Puppet_71 Start: 47317, Stop: 47018, Start Num: 83
Candidate Starts for Puppet_71:
(Start: 67 @47347 has 1 MA's), (Start: 83 @47317 has 208 MA's), (118, 47272), (119, 47269), (146, 47200), (157, 47149),

Gene: Puppy_80 Start: 45653, Stop: 45381, Start Num: 109
Candidate Starts for Puppy_80:
(Start: 109 @45653 has 105 MA's),

Gene: PurpleHaze_79 Start: 45438, Stop: 45175, Start Num: 109
Candidate Starts for PurpleHaze_79:
(73, 45501), (Start: 80 @45483 has 2 MA's), (Start: 109 @45438 has 105 MA's), (118, 45417),

Gene: QTRlifeCrisis_75 Start: 46442, Stop: 46143, Start Num: 83
Candidate Starts for QTRlifeCrisis_75:
(Start: 83 @46442 has 208 MA's), (118, 46397), (119, 46394), (146, 46325), (157, 46274),

Gene: Qobbit_85 Start: 47653, Stop: 47390, Start Num: 114
Candidate Starts for Qobbit_85:
(Start: 99 @47671 has 25 MA's), (Start: 114 @47653 has 17 MA's), (Start: 123 @47632 has 3 MA's), (154, 47536),

Gene: QueenB2_80 Start: 47058, Stop: 46753, Start Num: 100
Candidate Starts for QueenB2_80:
(Start: 100 @47058 has 33 MA's), (Start: 124 @47013 has 2 MA's), (166, 46839),

Gene: QueenBeesly_83 Start: 47765, Stop: 47457, Start Num: 100
Candidate Starts for QueenBeesly_83:
(Start: 100 @47765 has 33 MA's), (Start: 124 @47717 has 2 MA's), (130, 47702), (143, 47660), (166, 47543),

Gene: QuinnKiro_78 Start: 46001, Stop: 45720, Start Num: 107
Candidate Starts for QuinnKiro_78:
(Start: 91 @46019 has 2 MA's), (Start: 107 @46001 has 7 MA's), (Start: 109 @45998 has 105 MA's), (118, 45980),

Gene: Quokka_85 Start: 46815, Stop: 46540, Start Num: 101
Candidate Starts for Quokka_85:
(21, 47064), (Start: 101 @46815 has 17 MA's), (Start: 116 @46794 has 1 MA's), (120, 46782),

Gene: Rachaly_80 Start: 46883, Stop: 46569, Start Num: 81
Candidate Starts for Rachaly_80:
(Start: 81 @46883 has 4 MA's), (Start: 114 @46856 has 17 MA's), (118, 46847), (151, 46760),

Gene: Rahalelujah_86 Start: 47466, Stop: 47197, Start Num: 99
Candidate Starts for Rahalelujah_86:
(Start: 99 @47466 has 25 MA's), (Start: 114 @47448 has 17 MA's), (Start: 123 @47427 has 3 MA's),

Gene: Raid_74 Start: 46344, Stop: 46045, Start Num: 83
Candidate Starts for Raid_74:
(Start: 83 @46344 has 208 MA's), (118, 46299), (119, 46296), (146, 46227), (157, 46176),

Gene: Rajelicia_78 Start: 49280, Stop: 48981, Start Num: 83
Candidate Starts for Rajelicia_78:
(58, 49340), (Start: 83 @49280 has 208 MA's), (118, 49235), (119, 49232), (146, 49163), (157, 49112),

Gene: Reba_75 Start: 44278, Stop: 44015, Start Num: 109
Candidate Starts for Reba_75:
(73, 44341), (Start: 80 @44323 has 2 MA's), (Start: 109 @44278 has 105 MA's), (118, 44257),

Gene: Rebeuca_84 Start: 48801, Stop: 48520, Start Num: 96
Candidate Starts for Rebeuca_84:
(9, 49209), (15, 49113), (76, 48825), (Start: 96 @48801 has 15 MA's),

Gene: RedRock_83 Start: 48017, Stop: 47718, Start Num: 103
Candidate Starts for RedRock_83:
(Start: 103 @48017 has 12 MA's), (Start: 109 @48005 has 105 MA's), (Start: 110 @48002 has 4 MA's), (111, 47999), (121, 47978), (130, 47957),

Gene: Refuge_80 Start: 47830, Stop: 47555, Start Num: 99
Candidate Starts for Refuge_80:
(Start: 99 @47830 has 25 MA's), (Start: 114 @47809 has 17 MA's), (Start: 124 @47785 has 2 MA's), (130, 47773),

Gene: Relief_74 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for Relief_74:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: ResDef_77 Start: 46001, Stop: 45723, Start Num: 109
Candidate Starts for ResDef_77:
(Start: 91 @46022 has 2 MA's), (Start: 107 @46004 has 7 MA's), (Start: 109 @46001 has 105 MA's), (118, 45983),

Gene: Retro23_83 Start: 47489, Stop: 47184, Start Num: 100
Candidate Starts for Retro23_83:
(Start: 100 @47489 has 33 MA's), (Start: 124 @47444 has 2 MA's), (130, 47429), (143, 47387), (166, 47270),

Gene: RhynO_71 Start: 44245, Stop: 43955, Start Num: 96
Candidate Starts for RhynO_71:
(Start: 96 @44245 has 15 MA's),

Gene: Rhynn_72 Start: 46867, Stop: 46568, Start Num: 83
Candidate Starts for Rhynn_72:
(Start: 67 @46897 has 1 MA's), (Start: 83 @46867 has 208 MA's), (118, 46822), (119, 46819), (146, 46750), (150, 46738), (157, 46699),

Gene: Rifter_84 Start: 45121, Stop: 44810, Start Num: 138
Candidate Starts for Rifter_84:
(13, 45574), (34, 45367), (37, 45361), (115, 45193), (Start: 138 @45121 has 22 MA's), (140, 45103), (141, 45100), (142, 45097), (144, 45094), (145, 45085), (147, 45079), (148, 45076), (153, 45055), (159, 45019),

Gene: Ringer_76 Start: 47812, Stop: 47513, Start Num: 83
Candidate Starts for Ringer_76:
(77, 47821), (Start: 83 @47812 has 208 MA's), (118, 47767), (119, 47764), (146, 47695), (157, 47644),

Gene: RockieBear_72 Start: 45646, Stop: 45347, Start Num: 88
Candidate Starts for RockieBear_72:
(Start: 88 @45646 has 121 MA's), (117, 45604),

Gene: Rohr_79 Start: 49063, Stop: 48764, Start Num: 83
Candidate Starts for Rohr_79:
(58, 49123), (Start: 83 @49063 has 208 MA's), (118, 49018), (119, 49015), (146, 48946), (157, 48895),

Gene: Roimos_77 Start: 45892, Stop: 45608, Start Num: 109
Candidate Starts for Roimos_77:
(Start: 109 @45892 has 105 MA's), (162, 45688),

Gene: Roksolana_84 Start: 45837, Stop: 45574, Start Num: 138
Candidate Starts for Roksolana_84:
(25, 46137), (35, 46080), (37, 46077), (56, 46032), (115, 45909), (Start: 138 @45837 has 22 MA's), (141, 45825), (144, 45819), (153, 45780),

Gene: Romney_74 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for Romney_74:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: Roosevelt_73 Start: 45649, Stop: 45350, Start Num: 88
Candidate Starts for Roosevelt_73:
(Start: 88 @45649 has 121 MA's), (117, 45607),

Gene: Rosa24_71 Start: 45675, Stop: 45376, Start Num: 88
Candidate Starts for Rosa24_71:
(Start: 88 @45675 has 121 MA's), (117, 45633),

Gene: Rowdy_86 Start: 48631, Stop: 48341, Start Num: 96
Candidate Starts for Rowdy_86:
(Start: 96 @48631 has 15 MA's),

Gene: Rubeus_77 Start: 45563, Stop: 45264, Start Num: 83

Candidate Starts for Rubeus_77:
(58, 45623), (Start: 83 @45563 has 208 MA's), (118, 45518), (119, 45515), (146, 45446), (157, 45395),

Gene: Rufus_79 Start: 48252, Stop: 47953, Start Num: 83
Candidate Starts for Rufus_79:
(58, 48312), (Start: 83 @48252 has 208 MA's), (118, 48207), (119, 48204), (146, 48135), (157, 48084),

Gene: Ruin_75 Start: 45640, Stop: 45341, Start Num: 88
Candidate Starts for Ruin_75:
(Start: 88 @45640 has 121 MA's), (117, 45598),

Gene: Rummer_79 Start: 45655, Stop: 45392, Start Num: 109
Candidate Starts for Rummer_79:
(73, 45718), (Start: 80 @45700 has 2 MA's), (Start: 109 @45655 has 105 MA's), (118, 45634),

Gene: Ruotula_80 Start: 48665, Stop: 48366, Start Num: 83
Candidate Starts for Ruotula_80:
(Start: 83 @48665 has 208 MA's), (Start: 90 @48653 has 6 MA's), (118, 48620), (119, 48617), (146, 48548), (157, 48497),

Gene: Rutherferd_78 Start: 47832, Stop: 47533, Start Num: 83
Candidate Starts for Rutherferd_78:
(Start: 83 @47832 has 208 MA's), (118, 47787), (119, 47784), (146, 47715), (157, 47664),

Gene: RyeScarlet_88 Start: 47915, Stop: 47631, Start Num: 99
Candidate Starts for RyeScarlet_88:
(Start: 99 @47915 has 25 MA's), (Start: 123 @47876 has 3 MA's), (154, 47780),

Gene: STLscum_82 Start: 47874, Stop: 47575, Start Num: 83
Candidate Starts for STLscum_82:
(Start: 67 @47904 has 1 MA's), (Start: 83 @47874 has 208 MA's), (118, 47829), (119, 47826), (146, 47757), (157, 47706),

Gene: Sabertooth_75 Start: 45652, Stop: 45353, Start Num: 88
Candidate Starts for Sabertooth_75:
(Start: 88 @45652 has 121 MA's), (117, 45610),

Gene: Sabia_78 Start: 45635, Stop: 45372, Start Num: 109
Candidate Starts for Sabia_78:
(73, 45698), (Start: 80 @45680 has 2 MA's), (Start: 109 @45635 has 105 MA's),

Gene: Sabinator_78 Start: 45629, Stop: 45366, Start Num: 109
Candidate Starts for Sabinator_78:
(73, 45692), (Start: 80 @45674 has 2 MA's), (Start: 109 @45629 has 105 MA's), (118, 45608),

Gene: Sachima_83 Start: 47953, Stop: 47669, Start Num: 99
Candidate Starts for Sachima_83:
(Start: 99 @47953 has 25 MA's), (Start: 123 @47914 has 3 MA's), (154, 47818),

Gene: Sagefire_73 Start: 46922, Stop: 46623, Start Num: 83
Candidate Starts for Sagefire_73:
(58, 46982), (Start: 83 @46922 has 208 MA's), (118, 46877), (119, 46874), (146, 46805), (157, 46754),

Gene: Salz_79 Start: 45184, Stop: 44888, Start Num: 97
Candidate Starts for Salz_79:
(Start: 97 @45184 has 26 MA's), (106, 45175), (120, 45145), (Start: 124 @45136 has 2 MA's), (154, 45046),

Gene: Sandaddy_74 Start: 47254, Stop: 46955, Start Num: 83
Candidate Starts for Sandaddy_74:
(Start: 67 @47284 has 1 MA's), (Start: 83 @47254 has 208 MA's), (118, 47209), (119, 47206), (146, 47137), (157, 47086),

Gene: Sanya_71 Start: 47559, Stop: 47260, Start Num: 83
Candidate Starts for Sanya_71:
(58, 47619), (Start: 83 @47559 has 208 MA's), (118, 47514), (119, 47511), (146, 47442),

Gene: SarFire_80 Start: 48896, Stop: 48597, Start Num: 83
Candidate Starts for SarFire_80:
(58, 48956), (Start: 83 @48896 has 208 MA's), (118, 48851), (119, 48848), (146, 48779), (157, 48728),

Gene: Saskia_81 Start: 45732, Stop: 45436, Start Num: 97
Candidate Starts for Saskia_81:
(Start: 97 @45732 has 26 MA's), (106, 45723), (120, 45693), (Start: 124 @45684 has 2 MA's), (154, 45594),

Gene: SaturnRing_79 Start: 46036, Stop: 45764, Start Num: 109
Candidate Starts for SaturnRing_79:
(Start: 109 @46036 has 105 MA's),

Gene: Scamp_75 Start: 45649, Stop: 45350, Start Num: 88
Candidate Starts for Scamp_75:
(Start: 88 @45649 has 121 MA's), (117, 45607),

Gene: Scherzo_85 Start: 47952, Stop: 47689, Start Num: 114
Candidate Starts for Scherzo_85:
(Start: 99 @47970 has 25 MA's), (Start: 114 @47952 has 17 MA's), (Start: 123 @47931 has 3 MA's), (154, 47835),

Gene: Scout_78 Start: 45217, Stop: 44933, Start Num: 109
Candidate Starts for Scout_78:
(Start: 109 @45217 has 105 MA's), (162, 45013),

Gene: Scowl_77 Start: 47219, Stop: 46920, Start Num: 83
Candidate Starts for Scowl_77:
(58, 47279), (Start: 83 @47219 has 208 MA's), (118, 47174), (119, 47171), (146, 47102), (157, 47051),

Gene: Seabiscuit_77 Start: 46319, Stop: 46020, Start Num: 83
Candidate Starts for Seabiscuit_77:
(58, 46379), (Start: 83 @46319 has 208 MA's), (118, 46274), (119, 46271), (146, 46202), (157, 46151),

Gene: Seanderson_76 Start: 48623, Stop: 48324, Start Num: 83
Candidate Starts for Seanderson_76:
(58, 48683), (Start: 83 @48623 has 208 MA's), (118, 48578), (119, 48575), (146, 48506), (157, 48455),

Gene: SemperFi_83 Start: 47653, Stop: 47345, Start Num: 100

Candidate Starts for SemperFi_83:
(Start: 100 @47653 has 33 MA's), (Start: 124 @47605 has 2 MA's), (130, 47590), (143, 47548), (166, 47431),

Gene: SenorClean_76 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for SenorClean_76:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: Serenity_86 Start: 46855, Stop: 46580, Start Num: 101
Candidate Starts for Serenity_86:
(21, 47104), (Start: 101 @46855 has 17 MA's), (118, 46828), (120, 46822), (Start: 123 @46816 has 3 MA's),

Gene: Severus_81 Start: 47539, Stop: 47252, Start Num: 96
Candidate Starts for Severus_81:
(2, 48346), (3, 48325), (4, 48313), (11, 47899), (18, 47803), (Start: 96 @47539 has 15 MA's), (Start: 110 @47524 has 4 MA's), (120, 47506),

Gene: Shaka_73 Start: 45645, Stop: 45346, Start Num: 88
Candidate Starts for Shaka_73:
(Start: 88 @45645 has 121 MA's), (117, 45603),

Gene: Sham4_80 Start: 45270, Stop: 44971, Start Num: 97
Candidate Starts for Sham4_80:
(Start: 97 @45270 has 26 MA's), (106, 45261), (120, 45231), (Start: 124 @45222 has 2 MA's), (154, 45132),

Gene: Shapes_86 Start: 48631, Stop: 48341, Start Num: 96
Candidate Starts for Shapes_86:
(Start: 96 @48631 has 15 MA's),

Gene: SheaKeira_82 Start: 47212, Stop: 46940, Start Num: 99
Candidate Starts for SheaKeira_82:
(Start: 99 @47212 has 25 MA's), (Start: 114 @47194 has 17 MA's), (Start: 123 @47173 has 3 MA's),

Gene: Sheen_75 Start: 48554, Stop: 48285, Start Num: 99
Candidate Starts for Sheen_75:
(26, 48746), (28, 48728), (44, 48674), (45, 48671), (Start: 99 @48554 has 25 MA's), (111, 48542), (Start: 126 @48506 has 1 MA's), (129, 48500), (143, 48464), (154, 48425), (157, 48401),

Gene: SheldonCooper_75 Start: 46085, Stop: 45786, Start Num: 88
Candidate Starts for SheldonCooper_75:
(Start: 88 @46085 has 121 MA's), (117, 46043),

Gene: ShortQueendom_69 Start: 44928, Stop: 44629, Start Num: 83
Candidate Starts for ShortQueendom_69:
(58, 44988), (Start: 83 @44928 has 208 MA's), (118, 44883), (119, 44880), (146, 44811), (157, 44760),

Gene: Shygu2_74 Start: 45745, Stop: 45449, Start Num: 88
Candidate Starts for Shygu2_74:
(Start: 88 @45745 has 121 MA's), (117, 45703), (149, 45625),

Gene: Sibs6_76 Start: 44568, Stop: 44269, Start Num: 83

Candidate Starts for Sibs6_76:
(Start: 67 @44598 has 1 MA's), (Start: 83 @44568 has 208 MA's), (118, 44523), (119, 44520), (146, 44451), (157, 44400),

Gene: SkiPole_85 Start: 48224, Stop: 47925, Start Num: 83
Candidate Starts for SkiPole_85:
(58, 48284), (Start: 83 @48224 has 208 MA's), (118, 48179), (119, 48176), (146, 48107), (157, 48056),

Gene: Skipitt_74 Start: 45641, Stop: 45342, Start Num: 88
Candidate Starts for Skipitt_74:
(Start: 88 @45641 has 121 MA's), (117, 45599),

Gene: Sknot_83 Start: 47264, Stop: 46953, Start Num: 100
Candidate Starts for Sknot_83:
(Start: 100 @47264 has 33 MA's), (108, 47252), (121, 47222), (Start: 124 @47216 has 2 MA's), (130, 47201),

Gene: Slagathor_77 Start: 48080, Stop: 47781, Start Num: 83
Candidate Starts for Slagathor_77:
(58, 48140), (Start: 83 @48080 has 208 MA's), (118, 48035), (119, 48032), (146, 47963), (157, 47912),

Gene: Smairt_80 Start: 49688, Stop: 49389, Start Num: 83
Candidate Starts for Smairt_80:
(Start: 67 @49718 has 1 MA's), (Start: 83 @49688 has 208 MA's), (118, 49643), (119, 49640), (146, 49571), (157, 49520),

Gene: Smeagan_86 Start: 48201, Stop: 47893, Start Num: 98
Candidate Starts for Smeagan_86:
(Start: 98 @48201 has 19 MA's), (Start: 100 @48198 has 33 MA's), (121, 48156), (Start: 124 @48150 has 2 MA's), (130, 48135), (166, 47976),

Gene: Smeagol_79 Start: 49291, Stop: 48989, Start Num: 83
Candidate Starts for Smeagol_79:
(Start: 83 @49291 has 208 MA's), (119, 49243), (125, 49231), (Start: 126 @49228 has 1 MA's), (154, 49144), (157, 49120),

Gene: SmellyB_83 Start: 45554, Stop: 45264, Start Num: 94
Candidate Starts for SmellyB_83:
(30, 45698), (41, 45668), (64, 45602), (Start: 66 @45596 has 1 MA's), (Start: 94 @45554 has 17 MA's), (Start: 123 @45512 has 3 MA's), (Start: 124 @45509 has 2 MA's), (Start: 126 @45503 has 1 MA's), (128, 45500), (131, 45491), (149, 45434), (152, 45419),

Gene: SnapTap_83 Start: 47624, Stop: 47316, Start Num: 100
Candidate Starts for SnapTap_83:
(Start: 100 @47624 has 33 MA's), (Start: 124 @47576 has 2 MA's), (130, 47561), (143, 47519), (166, 47402),

Gene: Snape_84 Start: 46377, Stop: 46081, Start Num: 97
Candidate Starts for Snape_84:
(Start: 97 @46377 has 26 MA's), (106, 46368), (120, 46338), (Start: 124 @46329 has 2 MA's), (154, 46239),

Gene: Snazzy_77 Start: 47731, Stop: 47432, Start Num: 83

Candidate Starts for Snazzy_77:
(58, 47791), (Start: 83 @47731 has 208 MA's), (118, 47686), (119, 47683), (146, 47614), (157, 47563),

Gene: Snickers_80 Start: 45600, Stop: 45337, Start Num: 109
Candidate Starts for Snickers_80:
(73, 45663), (Start: 80 @45645 has 2 MA's), (Start: 109 @45600 has 105 MA's), (118, 45579),

Gene: SoYo_77 Start: 45543, Stop: 45280, Start Num: 109
Candidate Starts for SoYo_77:
(73, 45606), (Start: 80 @45588 has 2 MA's), (Start: 109 @45543 has 105 MA's), (118, 45522),

Gene: SoilDragon_80 Start: 45070, Stop: 44807, Start Num: 109
Candidate Starts for SoilDragon_80:
(73, 45133), (Start: 80 @45115 has 2 MA's), (Start: 109 @45070 has 105 MA's), (118, 45049),

Gene: Solon_72 Start: 45366, Stop: 45067, Start Num: 83
Candidate Starts for Solon_72:
(58, 45426), (Start: 83 @45366 has 208 MA's), (118, 45321), (119, 45318), (146, 45249), (157, 45198),

Gene: SororFago_82 Start: 47294, Stop: 47022, Start Num: 110
Candidate Starts for SororFago_82:
(42, 47426), (47, 47414), (Start: 110 @47294 has 4 MA's), (125, 47258), (127, 47255), (139, 47210),

Gene: Sorpresa_75 Start: 47260, Stop: 46961, Start Num: 83
Candidate Starts for Sorpresa_75:
(Start: 67 @47290 has 1 MA's), (Start: 83 @47260 has 208 MA's), (118, 47215), (119, 47212), (146, 47143), (157, 47092),

Gene: Soshari_82 Start: 45651, Stop: 45388, Start Num: 109
Candidate Starts for Soshari_82:
(73, 45714), (Start: 80 @45696 has 2 MA's), (Start: 109 @45651 has 105 MA's), (118, 45630),

Gene: Sparxx_76 Start: 45643, Stop: 45344, Start Num: 88
Candidate Starts for Sparxx_76:
(Start: 88 @45643 has 121 MA's), (117, 45601),

Gene: Spike509_80 Start: 45652, Stop: 45389, Start Num: 109
Candidate Starts for Spike509_80:
(73, 45715), (Start: 80 @45697 has 2 MA's), (Start: 109 @45652 has 105 MA's), (118, 45631),

Gene: SpikeBT_73 Start: 46188, Stop: 45889, Start Num: 83
Candidate Starts for SpikeBT_73:
(Start: 67 @46218 has 1 MA's), (Start: 83 @46188 has 208 MA's), (118, 46143), (119, 46140), (146, 46071), (157, 46020),

Gene: Spino_74 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for Spino_74:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: Spouty_85 Start: 47708, Stop: 47427, Start Num: 99
Candidate Starts for Spouty_85:
(Start: 99 @47708 has 25 MA's), (Start: 114 @47690 has 17 MA's), (Start: 123 @47669 has 3 MA's), (154, 47573),

Gene: Squee_77 Start: 46804, Stop: 46505, Start Num: 83
Candidate Starts for Squee_77:
(58, 46864), (Start: 83 @46804 has 208 MA's), (118, 46759), (119, 46756), (146, 46687), (157, 46636),

Gene: Stagni_77 Start: 45630, Stop: 45367, Start Num: 109
Candidate Starts for Stagni_77:
(73, 45693), (Start: 80 @45675 has 2 MA's), (Start: 109 @45630 has 105 MA's),

Gene: StarStuff_83 Start: 47232, Stop: 46954, Start Num: 101
Candidate Starts for StarStuff_83:
(Start: 101 @47232 has 17 MA's), (120, 47199), (Start: 123 @47193 has 3 MA's), (160, 47058),

Gene: Stasia_73 Start: 45644, Stop: 45327, Start Num: 84
Candidate Starts for Stasia_73:
(20, 45875), (40, 45752), (76, 45659), (Start: 84 @45644 has 1 MA's), (Start: 86 @45641 has 4 MA's), (Start: 88 @45638 has 121 MA's), (Start: 116 @45599 has 1 MA's),

Gene: SteMason_71 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for SteMason_71:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: Steamy_75 Start: 46308, Stop: 46036, Start Num: 99
Candidate Starts for Steamy_75:
(Start: 99 @46308 has 25 MA's), (121, 46269), (Start: 124 @46263 has 2 MA's),

Gene: StepMih_80 Start: 45621, Stop: 45358, Start Num: 109
Candidate Starts for StepMih_80:
(73, 45684), (Start: 80 @45666 has 2 MA's), (Start: 109 @45621 has 105 MA's),

Gene: StewieG_72 Start: 44368, Stop: 44039, Start Num: 67
Candidate Starts for StewieG_72:
(Start: 67 @44368 has 1 MA's), (Start: 83 @44338 has 208 MA's), (118, 44293), (119, 44290), (146, 44221), (157, 44170),

Gene: Stink_74 Start: 45501, Stop: 45226, Start Num: 116
Candidate Starts for Stink_74:
(32, 45666), (106, 45522), (Start: 116 @45501 has 1 MA's), (Start: 123 @45483 has 3 MA's), (148, 45414), (164, 45315),

Gene: StrongArm_72 Start: 46736, Stop: 46437, Start Num: 83
Candidate Starts for StrongArm_72:
(58, 46796), (Start: 83 @46736 has 208 MA's), (118, 46691), (119, 46688), (146, 46619), (157, 46568),

Gene: Sultana_75 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for Sultana_75:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: Sumter_73 Start: 47729, Stop: 47430, Start Num: 83
Candidate Starts for Sumter_73:
(Start: 67 @47759 has 1 MA's), (Start: 83 @47729 has 208 MA's), (118, 47684), (119, 47681), (146, 47612), (157, 47561),

Gene: Sunhee_83 Start: 45554, Stop: 45309, Start Num: 123
Candidate Starts for Sunhee_83:
(Start: 110 @45584 has 4 MA's), (Start: 123 @45554 has 3 MA's), (125, 45548), (127, 45545), (132, 45530), (139, 45500),

Gene: Sunshine924_77 Start: 46251, Stop: 45952, Start Num: 83
Candidate Starts for Sunshine924_77:
(Start: 83 @46251 has 208 MA's), (118, 46206), (119, 46203), (146, 46134), (157, 46083),

Gene: SuperAwesome_83 Start: 46235, Stop: 45945, Start Num: 94
Candidate Starts for SuperAwesome_83:
(30, 46379), (41, 46349), (64, 46283), (Start: 66 @46277 has 1 MA's), (Start: 94 @46235 has 17 MA's), (Start: 123 @46193 has 3 MA's), (Start: 124 @46190 has 2 MA's), (Start: 126 @46184 has 1 MA's), (128, 46181), (131, 46172), (149, 46115),

Gene: SuperCallie99_80 Start: 46034, Stop: 45786, Start Num: 123
Candidate Starts for SuperCallie99_80:
(Start: 94 @46076 has 17 MA's), (Start: 123 @46034 has 3 MA's), (Start: 124 @46031 has 2 MA's), (Start: 126 @46025 has 1 MA's), (128, 46022), (131, 46013), (149, 45956),

Gene: SweetiePie_83 Start: 47757, Stop: 47449, Start Num: 100
Candidate Starts for SweetiePie_83:
(Start: 100 @47757 has 33 MA's), (Start: 124 @47709 has 2 MA's), (130, 47694), (143, 47652), (166, 47535),

Gene: Swirley_70 Start: 44157, Stop: 43861, Start Num: 95
Candidate Starts for Swirley_70:
(Start: 95 @44157 has 11 MA's), (111, 44136), (Start: 114 @44130 has 17 MA's), (160, 43977),

Gene: SwissCheese_80 Start: 47251, Stop: 46952, Start Num: 83
Candidate Starts for SwissCheese_80:
(Start: 67 @47281 has 1 MA's), (Start: 83 @47251 has 208 MA's), (118, 47206), (119, 47203), (146, 47134), (157, 47083),

Gene: Switzer_75 Start: 47195, Stop: 46896, Start Num: 83
Candidate Starts for Switzer_75:
(58, 47255), (Start: 83 @47195 has 208 MA's), (118, 47150), (119, 47147), (146, 47078), (157, 47027),

Gene: Swole_77 Start: 47010, Stop: 46711, Start Num: 83
Candidate Starts for Swole_77:
(Start: 67 @47040 has 1 MA's), (Start: 83 @47010 has 208 MA's), (118, 46965), (119, 46962), (146, 46893), (157, 46842),

Gene: SydNat_70 Start: 44362, Stop: 44045, Start Num: 92
Candidate Starts for SydNat_70:
(60, 44434), (Start: 80 @44383 has 2 MA's), (85, 44374), (Start: 92 @44362 has 7 MA's), (Start: 97 @44356 has 26 MA's), (119, 44320), (Start: 124 @44308 has 2 MA's),

Gene: TNguyen7_80 Start: 45994, Stop: 45722, Start Num: 109
Candidate Starts for TNguyen7_80:
(Start: 109 @45994 has 105 MA's),

Gene: Taquarus_74 Start: 45650, Stop: 45351, Start Num: 88

Candidate Starts for Taquarus_74:
(Start: 88 @45650 has 121 MA's), (117, 45608),

Gene: Target_76 Start: 45828, Stop: 45529, Start Num: 83
Candidate Starts for Target_76:
(58, 45888), (Start: 83 @45828 has 208 MA's), (118, 45783), (119, 45780), (146, 45711), (150, 45699), (157, 45660),

Gene: TarsusIV_82 Start: 47656, Stop: 47333, Start Num: 100
Candidate Starts for TarsusIV_82:
(19, 47893), (Start: 100 @47656 has 33 MA's), (121, 47617), (Start: 124 @47611 has 2 MA's),

Gene: Tarynearal_69 Start: 43993, Stop: 43697, Start Num: 95
Candidate Starts for Tarynearal_69:
(Start: 95 @43993 has 11 MA's), (111, 43972), (Start: 114 @43966 has 17 MA's), (Start: 126 @43936 has 1 MA's), (160, 43813),

Gene: Tasp14_75 Start: 47298, Stop: 46999, Start Num: 83
Candidate Starts for Tasp14_75:
(Start: 67 @47328 has 1 MA's), (Start: 83 @47298 has 208 MA's), (118, 47253), (119, 47250), (146, 47181), (157, 47130),

Gene: Taurus_81 Start: 45630, Stop: 45367, Start Num: 109
Candidate Starts for Taurus_81:
(73, 45693), (Start: 80 @45675 has 2 MA's), (Start: 109 @45630 has 105 MA's), (118, 45609),

Gene: Temprado_85 Start: 45941, Stop: 45678, Start Num: 138
Candidate Starts for Temprado_85:
(25, 46241), (35, 46184), (37, 46181), (56, 46136), (115, 46013), (Start: 138 @45941 has 22 MA's), (141, 45929), (144, 45923), (153, 45884),

Gene: Teodoridan_74 Start: 45135, Stop: 44836, Start Num: 83
Candidate Starts for Teodoridan_74:
(58, 45195), (Start: 83 @45135 has 208 MA's), (118, 45090), (119, 45087), (146, 45018), (157, 44967),

Gene: Terrific_84 Start: 47238, Stop: 46927, Start Num: 100
Candidate Starts for Terrific_84:
(Start: 100 @47238 has 33 MA's), (108, 47226), (121, 47196), (Start: 124 @47190 has 2 MA's), (130, 47175),

Gene: Texage_77 Start: 45999, Stop: 45721, Start Num: 109
Candidate Starts for Texage_77:
(Start: 91 @46020 has 2 MA's), (Start: 107 @46002 has 7 MA's), (Start: 109 @45999 has 105 MA's),

Gene: Thanksgivukkah_74 Start: 45645, Stop: 45346, Start Num: 88
Candidate Starts for Thanksgivukkah_74:
(Start: 88 @45645 has 121 MA's), (117, 45603),

Gene: Theia_69 Start: 44485, Stop: 44186, Start Num: 92
Candidate Starts for Theia_69:
(85, 44497), (Start: 92 @44485 has 7 MA's), (Start: 97 @44479 has 26 MA's), (119, 44443), (Start: 124 @44431 has 2 MA's), (154, 44341), (160, 44302),

Gene: TheloniousMonk_78 Start: 48520, Stop: 48221, Start Num: 83
Candidate Starts for TheloniousMonk_78:
(58, 48580), (Start: 83 @48520 has 208 MA's), (118, 48475), (119, 48472), (146, 48403), (157, 48352),

Gene: Thor_80 Start: 48254, Stop: 47955, Start Num: 83
Candidate Starts for Thor_80:
(58, 48314), (Start: 83 @48254 has 208 MA's), (118, 48209), (119, 48206), (146, 48137), (157, 48086),

Gene: Tiffany_79 Start: 45515, Stop: 45252, Start Num: 109
Candidate Starts for Tiffany_79:
(73, 45578), (Start: 80 @45560 has 2 MA's), (Start: 109 @45515 has 105 MA's), (118, 45494),

Gene: Timothy_84 Start: 46354, Stop: 46058, Start Num: 97
Candidate Starts for Timothy_84:
(Start: 97 @46354 has 26 MA's), (106, 46345), (108, 46342), (120, 46315), (Start: 124 @46306 has 2 MA's), (154, 46216),

Gene: Timshel_75 Start: 48520, Stop: 48227, Start Num: 103
Candidate Starts for Timshel_75:
(33, 48667), (49, 48634), (Start: 103 @48520 has 12 MA's), (118, 48490), (130, 48460),

Gene: TinaFeyge_73 Start: 45642, Stop: 45343, Start Num: 88
Candidate Starts for TinaFeyge_73:
(Start: 88 @45642 has 121 MA's), (117, 45600),

Gene: TinyPebbles_79 Start: 45659, Stop: 45396, Start Num: 109
Candidate Starts for TinyPebbles_79:
(73, 45722), (Start: 80 @45704 has 2 MA's), (Start: 109 @45659 has 105 MA's), (118, 45638),

Gene: TinyTimmy_82 Start: 46083, Stop: 45787, Start Num: 97
Candidate Starts for TinyTimmy_82:
(Start: 97 @46083 has 26 MA's), (106, 46074), (108, 46071), (120, 46044), (Start: 124 @46035 has 2 MA's), (154, 45945),

Gene: Tinybot_74 Start: 45674, Stop: 45375, Start Num: 88
Candidate Starts for Tinybot_74:
(Start: 88 @45674 has 121 MA's), (117, 45632),

Gene: TipsytheTRex_82 Start: 46857, Stop: 46582, Start Num: 101
Candidate Starts for TipsytheTRex_82:
(21, 47106), (Start: 101 @46857 has 17 MA's), (118, 46830), (120, 46824), (Start: 123 @46818 has 3 MA's),

Gene: TiroTheta9_74 Start: 45641, Stop: 45342, Start Num: 88
Candidate Starts for TiroTheta9_74:
(Start: 88 @45641 has 121 MA's), (117, 45599),

Gene: Toaka_85 Start: 47815, Stop: 47546, Start Num: 99
Candidate Starts for Toaka_85:
(Start: 99 @47815 has 25 MA's), (Start: 114 @47797 has 17 MA's), (Start: 123 @47776 has 3 MA's), (155, 47677),

Gene: Todacoro_79 Start: 45998, Stop: 45720, Start Num: 109

Candidate Starts for Todacoro_79:
(Start: 91 @46019 has 2 MA's), (Start: 107 @46001 has 7 MA's), (Start: 109 @45998 has 105 MA's), (118, 45980),

Gene: Tomathan_83 Start: 47310, Stop: 47032, Start Num: 101
Candidate Starts for Tomathan_83:
(Start: 101 @47310 has 17 MA's), (120, 47277), (Start: 123 @47271 has 3 MA's), (160, 47136),

Gene: ToneTone_81 Start: 45501, Stop: 45238, Start Num: 138
Candidate Starts for ToneTone_81:
(25, 45801), (35, 45744), (37, 45741), (56, 45696), (115, 45573), (Start: 138 @45501 has 22 MA's), (141, 45489), (144, 45483), (153, 45444),

Gene: Topanga_73 Start: 45266, Stop: 44976, Start Num: 104
Candidate Starts for Topanga_73:
(76, 45299), (Start: 104 @45266 has 3 MA's),

Gene: Topgun_72 Start: 45472, Stop: 45173, Start Num: 83
Candidate Starts for Topgun_72:
(58, 45532), (Start: 83 @45472 has 208 MA's), (118, 45427), (119, 45424), (146, 45355), (157, 45304),

Gene: Toro_76 Start: 49217, Stop: 48948, Start Num: 99
Candidate Starts for Toro_76:
(26, 49409), (28, 49391), (44, 49337), (45, 49334), (Start: 99 @49217 has 25 MA's), (111, 49205), (119, 49187), (Start: 126 @49169 has 1 MA's), (129, 49163), (143, 49127), (154, 49088), (157, 49064),

Gene: Tote_72 Start: 44278, Stop: 43979, Start Num: 83
Candidate Starts for Tote_72:
(Start: 67 @44308 has 1 MA's), (Start: 83 @44278 has 208 MA's), (118, 44233), (119, 44230), (146, 44161), (157, 44110),

Gene: Traft412_76 Start: 47553, Stop: 47254, Start Num: 83
Candidate Starts for Traft412_76:
(58, 47613), (Start: 83 @47553 has 208 MA's), (118, 47508), (119, 47505), (146, 47436), (157, 47385),

Gene: Travvers_83 Start: 47227, Stop: 46949, Start Num: 101
Candidate Starts for Travvers_83:
(Start: 101 @47227 has 17 MA's), (120, 47194), (Start: 123 @47188 has 3 MA's), (160, 47053),

Gene: Treddle_78 Start: 48283, Stop: 47984, Start Num: 83
Candidate Starts for Treddle_78:
(58, 48343), (Start: 83 @48283 has 208 MA's), (118, 48238), (119, 48235), (146, 48166), (157, 48115),

Gene: Tripl3t_79 Start: 49835, Stop: 49536, Start Num: 83
Candidate Starts for Tripl3t_79:
(Start: 83 @49835 has 208 MA's), (118, 49790), (119, 49787), (146, 49718), (157, 49667),

Gene: Tristan_78 Start: 47933, Stop: 47640, Start Num: 89
Candidate Starts for Tristan_78:
(Start: 89 @47933 has 2 MA's), (Start: 116 @47897 has 1 MA's), (121, 47882),

Gene: Trixie_83 Start: 48218, Stop: 47910, Start Num: 103
Candidate Starts for Trixie_83:

(Start: 103 @48218 has 12 MA's), (121, 48179), (Start: 123 @48176 has 3 MA's),

Gene: Trooper_82 Start: 47215, Stop: 46895, Start Num: 100
Candidate Starts for Trooper_82:
(Start: 100 @47215 has 33 MA's), (Start: 124 @47167 has 2 MA's), (Start: 126 @47161 has 1 MA's), (166, 46984),

Gene: Trouble_76 Start: 47362, Stop: 47063, Start Num: 83
Candidate Starts for Trouble_76:
(22, 47569), (24, 47542), (27, 47521), (29, 47500), (30, 47497), (36, 47470), (43, 47458), (46, 47449), (52, 47434), (75, 47380), (Start: 83 @47362 has 208 MA's), (118, 47317), (119, 47314), (146, 47245), (157, 47194),

Gene: TroyPia_76 Start: 45682, Stop: 45383, Start Num: 88
Candidate Starts for TroyPia_76:
(Start: 88 @45682 has 121 MA's), (117, 45640),

Gene: Tubs_87 Start: 47925, Stop: 47641, Start Num: 99
Candidate Starts for Tubs_87:
(Start: 99 @47925 has 25 MA's), (Start: 114 @47907 has 17 MA's), (Start: 123 @47886 has 3 MA's), (154, 47790),

Gene: Tucker_84 Start: 45704, Stop: 45441, Start Num: 138
Candidate Starts for Tucker_84:
(25, 46004), (35, 45947), (37, 45944), (56, 45899), (115, 45776), (Start: 138 @45704 has 22 MA's), (141, 45692), (144, 45686), (153, 45647),

Gene: Turbido_84 Start: 47922, Stop: 47614, Start Num: 98
Candidate Starts for Turbido_84:
(Start: 98 @47922 has 19 MA's), (Start: 100 @47919 has 33 MA's), (121, 47877), (Start: 124 @47871 has 2 MA's), (130, 47856), (166, 47697),

Gene: Turj99_72 Start: 46853, Stop: 46554, Start Num: 83
Candidate Starts for Turj99_72:
(Start: 83 @46853 has 208 MA's), (118, 46808), (119, 46805), (157, 46685),

Gene: Twigg_67 Start: 43805, Stop: 43509, Start Num: 95
Candidate Starts for Twigg_67:
(Start: 95 @43805 has 11 MA's), (111, 43784), (Start: 114 @43778 has 17 MA's), (160, 43625),

Gene: Twister_84 Start: 48480, Stop: 48184, Start Num: 104
Candidate Starts for Twister_84:
(76, 48513), (Start: 104 @48480 has 3 MA's),

Gene: TwoPeat_76 Start: 46815, Stop: 46516, Start Num: 83
Candidate Starts for TwoPeat_76:
(58, 46875), (Start: 83 @46815 has 208 MA's), (118, 46770), (119, 46767), (Start: 126 @46752 has 1 MA's), (146, 46698), (157, 46647),

Gene: TygerBlood_75 Start: 45647, Stop: 45348, Start Num: 88
Candidate Starts for TygerBlood_75:
(Start: 88 @45647 has 121 MA's), (117, 45605),

Gene: U2_70 Start: 47052, Stop: 46753, Start Num: 83
Candidate Starts for U2_70:
(Start: 67 @47082 has 1 MA's), (Start: 83 @47052 has 208 MA's), (118, 47007), (119, 47004), (146, 46935), (157, 46884),

Gene: Ugenie5_74 Start: 45396, Stop: 45133, Start Num: 114
Candidate Starts for Ugenie5_74:
(Start: 99 @45414 has 25 MA's), (Start: 114 @45396 has 17 MA's), (Start: 123 @45375 has 3 MA's), (154, 45279),

Gene: Ulysses_74 Start: 45330, Stop: 45031, Start Num: 88
Candidate Starts for Ulysses_74:
(Start: 88 @45330 has 121 MA's), (117, 45288),

Gene: Updawg_84 Start: 47452, Stop: 47141, Start Num: 100
Candidate Starts for Updawg_84:
(Start: 100 @47452 has 33 MA's), (108, 47440), (121, 47410), (Start: 124 @47404 has 2 MA's), (130, 47389),

Gene: VA6_83 Start: 47497, Stop: 47174, Start Num: 98
Candidate Starts for VA6_83:
(14, 47827), (16, 47800), (54, 47590), (Start: 98 @47497 has 19 MA's), (Start: 100 @47494 has 33 MA's), (Start: 124 @47446 has 2 MA's), (130, 47431), (143, 47389),

Gene: VC3_81 Start: 46132, Stop: 45854, Start Num: 101
Candidate Starts for VC3_81:
(Start: 101 @46132 has 17 MA's), (120, 46099), (Start: 123 @46093 has 3 MA's), (160, 45958),

Gene: Vanisoa_82 Start: 48147, Stop: 47884, Start Num: 99
Candidate Starts for Vanisoa_82:
(Start: 99 @48147 has 25 MA's), (Start: 123 @48114 has 3 MA's), (155, 48015),

Gene: Veracruz_76 Start: 46002, Stop: 45721, Start Num: 107
Candidate Starts for Veracruz_76:
(Start: 91 @46020 has 2 MA's), (Start: 107 @46002 has 7 MA's), (Start: 109 @45999 has 105 MA's), (118, 45981),

Gene: Violet_71 Start: 47447, Stop: 47148, Start Num: 83
Candidate Starts for Violet_71:
(58, 47507), (Start: 83 @47447 has 208 MA's), (118, 47402), (119, 47399), (146, 47330), (157, 47279),

Gene: Vix_76 Start: 45710, Stop: 45447, Start Num: 109
Candidate Starts for Vix_76:
(73, 45773), (Start: 80 @45755 has 2 MA's), (Start: 109 @45710 has 105 MA's), (118, 45689),

Gene: VohminGhazi_83 Start: 45555, Stop: 45265, Start Num: 94
Candidate Starts for VohminGhazi_83:
(30, 45699), (41, 45669), (64, 45603), (Start: 66 @45597 has 1 MA's), (Start: 94 @45555 has 17 MA's), (Start: 123 @45513 has 3 MA's), (Start: 124 @45510 has 2 MA's), (Start: 126 @45504 has 1 MA's), (128, 45501), (131, 45492), (149, 45435), (152, 45420),

Gene: WalterMcMickey_83 Start: 48480, Stop: 48184, Start Num: 104
Candidate Starts for WalterMcMickey_83:

(76, 48513), (Start: 104 @48480 has 3 MA's),

Gene: Wander_75 Start: 45641, Stop: 45342, Start Num: 88
Candidate Starts for Wander_75:
(Start: 88 @45641 has 121 MA's), (117, 45599),

Gene: Watermelon_79 Start: 48357, Stop: 48058, Start Num: 83
Candidate Starts for Watermelon_79:
(Start: 67 @48387 has 1 MA's), (Start: 83 @48357 has 208 MA's), (118, 48312), (119, 48309), (146, 48240), (157, 48189),

Gene: Watson_79 Start: 45664, Stop: 45356, Start Num: 80
Candidate Starts for Watson_79:
(73, 45682), (Start: 80 @45664 has 2 MA's), (Start: 109 @45619 has 105 MA's),

Gene: WeiHuaDA_85 Start: 48465, Stop: 48169, Start Num: 110
Candidate Starts for WeiHuaDA_85:
(5, 49035), (19, 48720), (Start: 100 @48480 has 33 MA's), (Start: 110 @48465 has 4 MA's), (121, 48441), (130, 48420), (143, 48378),

Gene: Whabigail7_83 Start: 47920, Stop: 47612, Start Num: 98
Candidate Starts for Whabigail7_83:
(Start: 98 @47920 has 19 MA's), (Start: 100 @47917 has 33 MA's), (Start: 124 @47869 has 2 MA's), (130, 47854), (166, 47695),

Gene: Wheeler_81 Start: 49068, Stop: 48769, Start Num: 83
Candidate Starts for Wheeler_81:
(Start: 83 @49068 has 208 MA's), (118, 49023), (119, 49020), (146, 48951), (157, 48900),

Gene: Whitspit_69 Start: 44179, Stop: 43880, Start Num: 83
Candidate Starts for Whitspit_69:
(58, 44239), (Start: 83 @44179 has 208 MA's), (118, 44134), (119, 44131), (146, 44062), (157, 44011),

Gene: WideWale_84 Start: 47452, Stop: 47141, Start Num: 100
Candidate Starts for WideWale_84:
(Start: 100 @47452 has 33 MA's), (108, 47440), (121, 47410), (Start: 124 @47404 has 2 MA's), (130, 47389),

Gene: Wiks_83 Start: 45572, Stop: 45309, Start Num: 138
Candidate Starts for Wiks_83:
(25, 45872), (35, 45815), (37, 45812), (56, 45767), (115, 45644), (Start: 138 @45572 has 22 MA's), (141, 45560), (144, 45554), (153, 45515),

Gene: Wilbur_75 Start: 45644, Stop: 45345, Start Num: 88
Candidate Starts for Wilbur_75:
(Start: 88 @45644 has 121 MA's), (117, 45602),

Gene: Wile_73 Start: 45720, Stop: 45427, Start Num: 71
Candidate Starts for Wile_73:
(Start: 61 @45741 has 2 MA's), (Start: 62 @45738 has 13 MA's), (Start: 71 @45720 has 2 MA's), (74, 45717), (Start: 94 @45687 has 17 MA's), (Start: 123 @45675 has 3 MA's), (134, 45636), (149, 45603),

Gene: Wilkins_73 Start: 45402, Stop: 45103, Start Num: 83

Candidate Starts for Wilkins_73:
(58, 45462), (Start: 83 @45402 has 208 MA's), (118, 45357), (119, 45354), (146, 45285), (157, 45234),

Gene: Wizard007_74 Start: 45464, Stop: 45153, Start Num: 62
Candidate Starts for Wizard007_74:
(Start: 61 @45467 has 2 MA's), (Start: 62 @45464 has 13 MA's), (Start: 71 @45446 has 2 MA's), (74, 45443), (Start: 94 @45413 has 17 MA's), (Start: 123 @45401 has 3 MA's), (134, 45362), (149, 45329),

Gene: Wolpertinger_83 Start: 46389, Stop: 46090, Start Num: 97
Candidate Starts for Wolpertinger_83:
(Start: 97 @46389 has 26 MA's), (106, 46380), (120, 46350), (Start: 124 @46341 has 2 MA's), (154, 46251),

Gene: Wooldri_82 Start: 45536, Stop: 45273, Start Num: 109
Candidate Starts for Wooldri_82:
(73, 45599), (Start: 80 @45581 has 2 MA's), (Start: 109 @45536 has 105 MA's), (118, 45515),

Gene: WorldCup_85 Start: 47587, Stop: 47336, Start Num: 114
Candidate Starts for WorldCup_85:
(Start: 99 @47605 has 25 MA's), (Start: 114 @47587 has 17 MA's), (Start: 123 @47566 has 3 MA's),

Gene: WunderPhul_84 Start: 45570, Stop: 45307, Start Num: 138
Candidate Starts for WunderPhul_84:
(25, 45870), (35, 45813), (37, 45810), (56, 45765), (115, 45642), (Start: 138 @45570 has 22 MA's), (141, 45558), (153, 45513),

Gene: Xena_73 Start: 45735, Stop: 45418, Start Num: 62
Candidate Starts for Xena_73:
(Start: 61 @45738 has 2 MA's), (Start: 62 @45735 has 13 MA's), (68, 45720), (Start: 94 @45684 has 17 MA's), (Start: 123 @45669 has 3 MA's), (134, 45630), (149, 45597),

Gene: XianYue_82 Start: 47707, Stop: 47390, Start Num: 98
Candidate Starts for XianYue_82:
(10, 48094), (19, 47950), (Start: 98 @47707 has 19 MA's), (120, 47671), (165, 47482),

Gene: Yecey3_88 Start: 47683, Stop: 47417, Start Num: 99
Candidate Starts for Yecey3_88:
(Start: 99 @47683 has 25 MA's), (Start: 114 @47665 has 17 MA's), (120, 47650), (125, 47638), (160, 47509),

Gene: YoSam321_75 Start: 45642, Stop: 45343, Start Num: 88
Candidate Starts for YoSam321_75:
(Start: 88 @45642 has 121 MA's), (117, 45600),

Gene: Yokurt_83 Start: 45572, Stop: 45309, Start Num: 138
Candidate Starts for Yokurt_83:
(25, 45872), (35, 45815), (37, 45812), (56, 45767), (115, 45644), (Start: 138 @45572 has 22 MA's), (141, 45560), (144, 45554), (153, 45515),

Gene: Zaka_84 Start: 45572, Stop: 45309, Start Num: 138
Candidate Starts for Zaka_84:
(25, 45872), (35, 45815), (37, 45812), (56, 45767), (115, 45644), (Start: 138 @45572 has 22 MA's), (141, 45560), (144, 45554), (153, 45515),

Gene: Zarafa_76 Start: 45978, Stop: 45694, Start Num: 109
Candidate Starts for Zarafa_76:
(Start: 109 @45978 has 105 MA's), (162, 45774),

Gene: Zeeculate_72 Start: 47175, Stop: 46876, Start Num: 83
Candidate Starts for Zeeculate_72:
(Start: 67 @47205 has 1 MA's), (Start: 83 @47175 has 208 MA's), (118, 47130), (119, 47127), (146, 47058), (157, 47007),

Gene: Zephyr_78 Start: 47447, Stop: 47148, Start Num: 83
Candidate Starts for Zephyr_78:
(58, 47507), (Start: 83 @47447 has 208 MA's), (118, 47402), (119, 47399), (146, 47330), (157, 47279),

Gene: Zeuska_78 Start: 48397, Stop: 48113, Start Num: 87
Candidate Starts for Zeuska_78:
(70, 48427), (Start: 87 @48397 has 3 MA's), (Start: 99 @48385 has 25 MA's), (146, 48295), (157, 48244),

Gene: Zimmer_79 Start: 47067, Stop: 46792, Start Num: 99
Candidate Starts for Zimmer_79:
(Start: 99 @47067 has 25 MA's), (Start: 114 @47046 has 17 MA's), (Start: 116 @47043 has 1 MA's), (117, 47040), (Start: 124 @47022 has 2 MA's), (130, 47010),

Gene: Zolita_69 Start: 44339, Stop: 44049, Start Num: 97
Candidate Starts for Zolita_69:
(60, 44417), (Start: 80 @44366 has 2 MA's), (85, 44357), (Start: 92 @44345 has 7 MA's), (Start: 97 @44339 has 26 MA's), (119, 44303), (Start: 124 @44291 has 2 MA's),

Gene: Zulu_85 Start: 45950, Stop: 45687, Start Num: 138
Candidate Starts for Zulu_85:
(25, 46250), (35, 46193), (37, 46190), (56, 46145), (115, 46022), (Start: 138 @45950 has 22 MA's), (141, 45938), (144, 45932), (153, 45893),