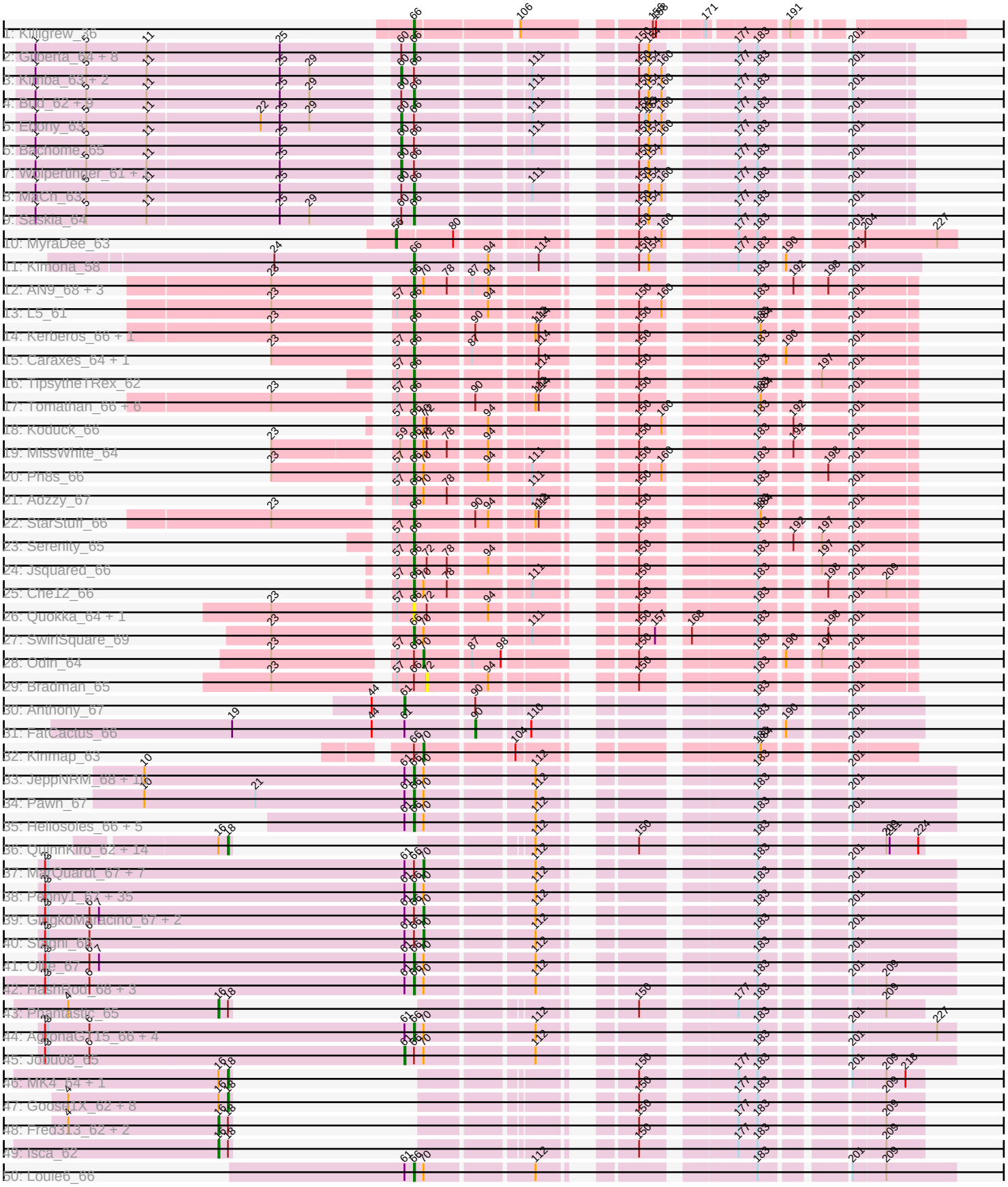
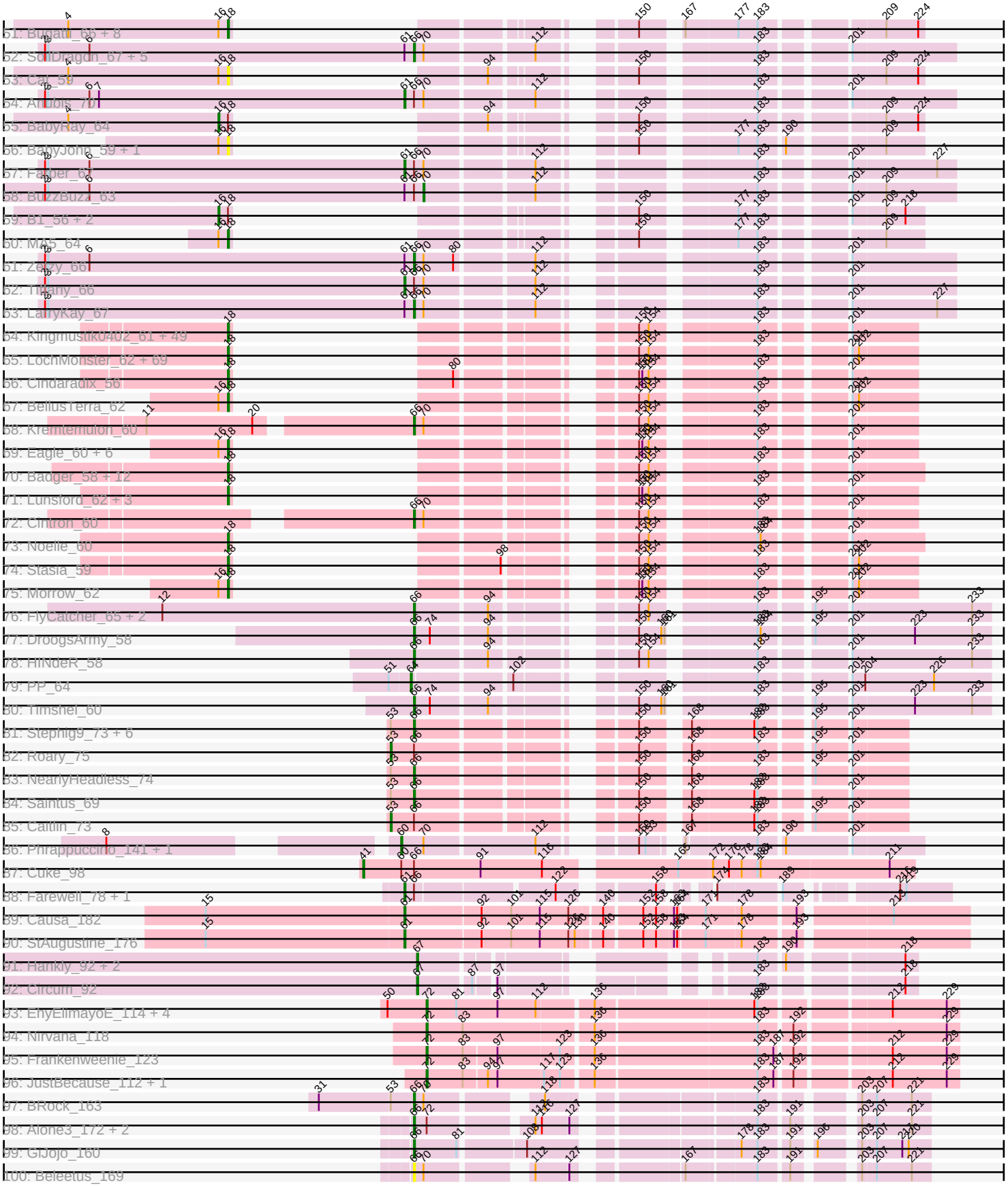
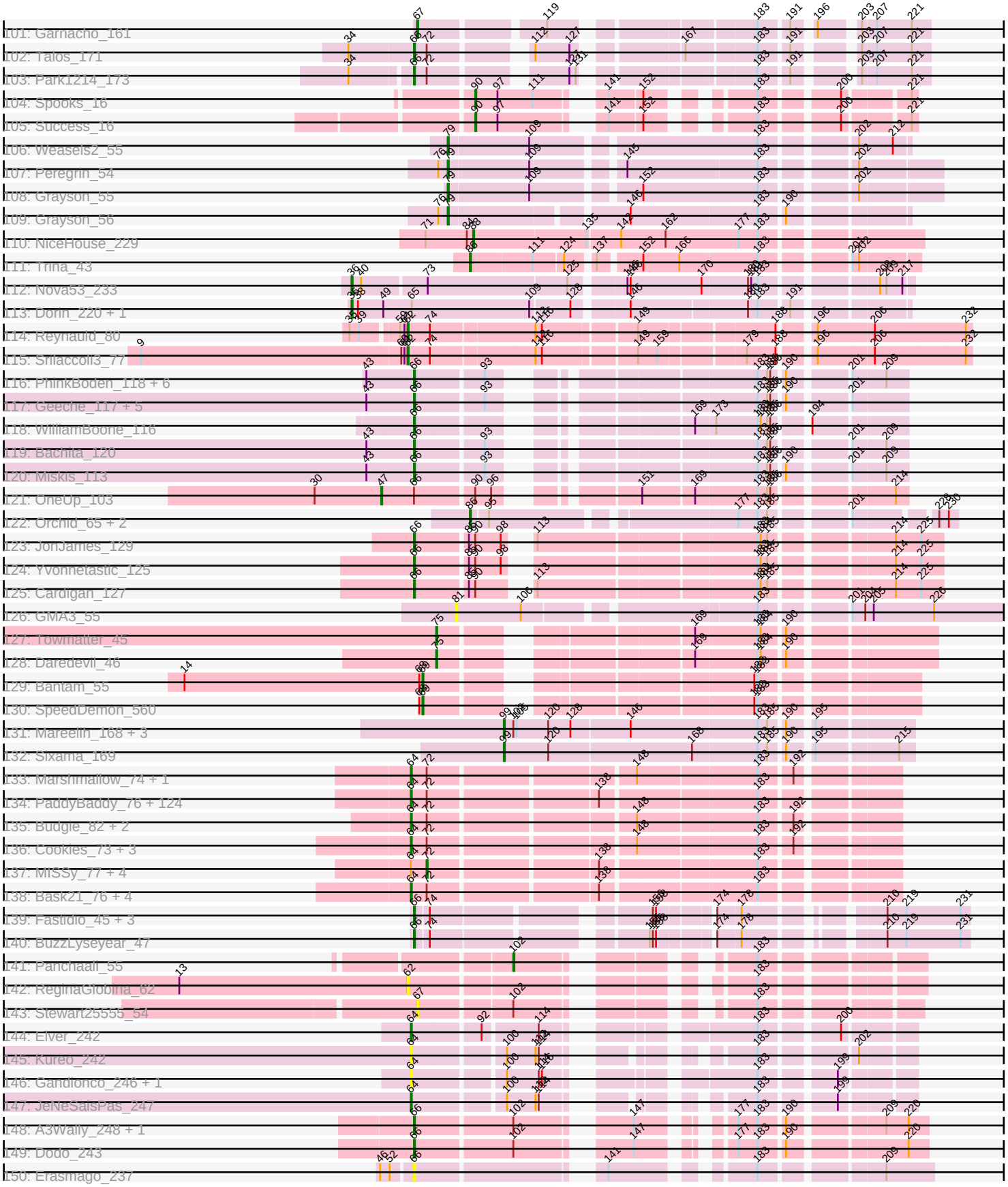
Pham 347044


1: Kiwgrew_66
2: Gilberta_64 + 8
3: Kimba_63 + 2
4: Bub_62 + 9
5: Ebony_63
6: Bachome_65
7: Wolpertinger_61 + 1
8: MaCh_63
9: Saskia_64
10: MyraDee_63
11: Kimona_58
12: AN9_68 + 3
13: L5_61
14: Kerberos_66 + 1
15: Caraxes_64 + 1
16: TipsytheTRex_62
17: Tomathan_66 + 6
18: Kooduck_66
19: MissWhite_64
20: Phs8s_66
21: Adzzy_67
22: StarStuff_66
23: Serenity_65
24: Jsquared_66
25: Che12_66
26: Quokka_64 + 1
27: SwimSquare_69
28: Odin_64
29: Bradman_65
30: Anthony_67
31: FatCactus_66
32: Kinmap_63
33: JeppNRM_68 + 1
34: Pawn_67
35: Heliosoles_66 + 5
36: QuinnKiro_62 + 14
37: MacQuardt_67 + 7
38: Penny1_67 + 35
39: GingkoMaracino_67 + 2
40: Stagni_63
41: Olie_67
42: Hashi300_68 + 3
43: Phantastic_65
44: AgonaG215_66 + 4
45: Jobu08_65
46: MK4_64 + 1
47: Goose1X_62 + 8
48: Fred313_62 + 2
49: Isca_62
50: Louie6_66

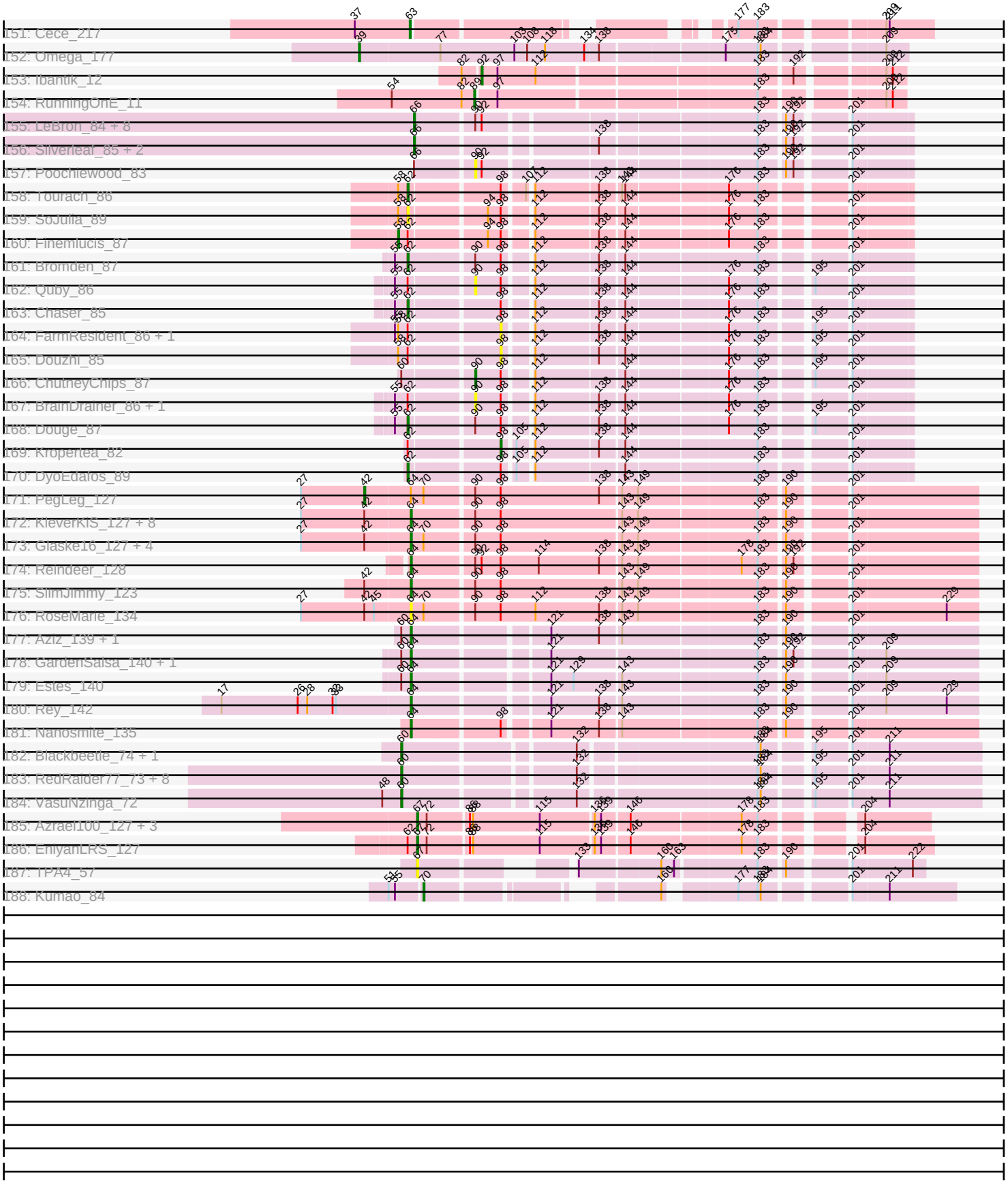
Pham 347044



Pham 347044


I01: Garnacho_161
I02: Talos_171
I03: Park1214_173
I04: Spooks_16
I05: Success_16
I06: Weasels2_55
I07: Peregrin_54
I08: Grayson_55
I09: Grayson_56
I10: NiceHouse_229
I11: Trina_43
I12: Nova53_233
I13: Dorin_220 + 1
I14: Reynauld_80
I15: Smiaccoli3_77
I16: PhinkBoden_118 + 6
I17: Geeche_117 + 5
I18: WilliamBoone_116
I19: Bachita_120
I20: Miskis_113
I21: OneUp_103
I22: Orchid_65 + 2
I23: JonJames_129
I24: Yvonnetastic_125
I25: Cardigan_127
I26: GMA3_55
I27: Townhatter_45
I28: Daredevil_46
I29: Bantam_55
I30: SpeedDemon_560
I31: Mareelin_168 + 3
I32: Sixama_169
I33: Marshmallow_74 + 1
I34: PaddyBaddy_76 + 124
I35: Budgie_82 + 2
I36: Cookies_73 + 3
I37: MISSy_77 + 4
I38: Bask21_76 + 4
I39: Fastidio_45 + 3
I40: BuzzLyseyear_47
I41: Panchaali_55
I42: ReginaGlobina_62
I43: Stewart25555_54
I44: Elver_242
I45: Kureo_242
I46: Gandionco_246 + 1
I47: JeNeSaisPas_247
I48: A3Wally_248 + 1
I49: Dodo_243
I50: Erasmago_237

Pham 347044


151: Cece_217
152: Omega_177
153: Ibanik_12
154: RunningOnE_11
155: LeBron_84 + 8
156: Silverleaf_85 + 2
157: Poochiewood_83
158: Tourach_86
159: SoJulia_89
160: Finemiucis_87
161: Bromden_87
162: Quby_86
163: Chaser_85
164: FarmResident_86 + 1
165: Douzhi_85
166: ChutneyChips_87
167: BrainDrainer_86 + 1
168: Douge_87
169: Kropertea_82
170: DyoEdafos_89
171: PegLeg_127
172: KleverKIS_127 + 8
173: Glaske16_127 + 4
174: Reindeer_128
175: SlimJimmy_123
176: RoseMarie_134
177: Aziz_139 + 1
178: GardenSalsa_140 + 1
179: Estes_140
180: Rey_142
181: Nanosmite_135
182: Blackbeetle_74 + 1
183: RedRaider77_73 + 8
184: VasuNzinga_72
185: Azrael100_127 + 3
186: EnlyanLRS_127
187: TPA4_57
188: Kumao_84

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 347044 Report

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

Pham number 347044 has 683 members, 58 are drafts.

Phages represented in each track:
• Track 1 : Killigrew_36
• Track 2 : Gilberta_64, Orange_62, Timothy_63, Mabel_63, Lucivia_64, Snape_63, Bowtie_64, Petersenfast_63, Flaverint_64
• Track 3 : Kimba_63, Hutc2_62, Insomnia_64
• Track 4 : Bud_62, Aneem_64, Salz_62, Joselito_64, Jabith_64, TinyTimmy_63, Munch_63, Et2Brutus_62, Fibonacci_63, Mulciber_62
• Track 5 : Ebony_63
• Track 6 : Bachome_65
• Track 7 : Wolpertinger_61, Sham4_63
• Track 8 : MaCh_63
• Track 9 : Saskia_64
• Track 10 : MyraDee_63
• Track 11 : Kimona_58
• Track 12 : AN9_68, VC3_67, ANI8_68, C3_61
• Track 13 : L5_61
• Track 14 : Kerberos_66, Duplo_66
• Track 15 : Caraxes_64, Superchunk_64
• Track 16 : TipsytheTRex_62
• Track 17 : Tomathan_66, DBQu4n_66, D29_61, D32_65, Pomar16_65, Travvers_65, Naji_66
• Track 18 : Koduck_66
• Track 19 : MissWhite_64
• Track 20 : Ph8s_66
• Track 21 : Adzzy_67
• Track 22 : StarStuff_66
• Track 23 : Serenity_65
• Track 24 : Jsquared_66
• Track 25 : Che12_66
• Track 26 : Quokka_64, MajorMajor_64
• Track 27 : SwirlSquare_69
• Track 28 : Odin_64
• Track 29 : Bradman_65
• Track 30 : Anthony_67
• Track 31 : FatCactus_66
• Track 32 : Kinmap_63
• Track 33 : JeppNRM_68, PhishRPhriends_65, Manu_67, Phranny_68, ACFishhook_65, Gemma_66, HaveUMetTed_68, OlanP_66, Reba_67,

ClownCar_67, Kalb97_68
• Track 34 : Pawn_67
• Track 35 : Heliosoles_66, Kalnoky_68, Groupthink_68, Calvinny_67, Marius_68, PurpleHaze_67
• Track 36 : QuinnKiro_62, Popcicle_63, Caviar_63, Panamaxus_61, Lambert1_63, Todacoro_63, Texage_61, Hookmount_63, Margo_63, EtoileNova_62, Pocahontas_63, Norbert_60, Noella_63, ResDef_62, Veracruz_61
• Track 37 : MarQuardt_67, Malinsilva_69, Sabia_67, Watson_66, Pembroke_67, JenCasNa_68, Montavir_64, Taurus_68
• Track 38 : Penny1_67, P28Green_68, MoneyMay_66, Phoxy_67, Vix_65, LBerry_68, Croquant_66, GtownJaz_67, Mainiac_67, Snickers_67, Grub_67, Cullens_67, Beauxregard13_66, LugYA_70, Lilith_66, Gwennie_67, PGHhamlin_69, Dieselweasel_68, EpicPhail_68, SoYo_66, BreSam8_67, Marie_65, DaHudson_66, Lowa_67, Phoebe_68, JHC117_65, Daishi_66, Grif_67, Microwolf_65, Sabinator_65, Spike509_67, Fernando_67, Hercules11_67, Colbster_65, PotatoSplit_68, Grum1_66
• Track 39 : GingkoMaracino_67, Rummer_66, StepMih_66
• Track 40 : Stagni_66
• Track 41 : Ollie_67
• Track 42 : HashRod_68, KADY_66, Misomonster_68, TinyPebbles_66
• Track 43 : Phantastic_65
• Track 44 : AgronaGT15_66, Wooldri_69, Bxz2_62, Methuselah_62, Soshari_69
• Track 45 : Jobu08_65
• Track 46 : MK4_64, JF4_62
• Track 47 : Goose1X_62, Marchesa_62, DropBear_64, Kachowdy_64, Zarafa_62, Heathen_64, Goose1D_56, Scout_63, Roimos_62
• Track 48 : Fred313_62, HelDan_63, Shep_62
• Track 49 : Isca_62
• Track 50 : Louie6_66
• Track 51 : Bugatti_66, Clammy_66, Giroux_66, Idleandcovert_64, SaturnRing_64, Puppy_64, Pistachio_64, TNguyen7_65, BlueBird_66
• Track 52 : SoilDragon_67, Aglet_68, MadMarie_67, Bigflo_67, AugsMagnumOpus_70, MuchMore_70
• Track 53 : Cat_59
• Track 54 : Anubis_70
• Track 55 : BabyRay_64
• Track 56 : BabyJohn_59, Chiqui_59
• Track 57 : Farber_67
• Track 58 : BuzzBuzz_63
• Track 59 : B1_56, Rockstar_62, JF2_62
• Track 60 : MA5_64
• Track 61 : Zetzy_66
• Track 62 : Tiffany_66
• Track 63 : LarryKay_67
• Track 64 : Kingmustik0402_61, PeterPeter_61, Mayonnaise_59, Pumbaa_61, Kyee_61, KFPoly_60, LHTSCC_63, ChampagnePapi_63, Palestino_60, NotAPhaseMom_60, ICleared_60, Arturo_59, Caelakin_60, Miramae_58, Rosa24_59, Funston_60, Phacado_61, Cerulean_62, OKaNui_61, Mazhar510_61, JoongJeon_60, Happiness_60, Kratark_60, Peaches_59, Shaka_59, Relief_60, Sultana_61, Eris_60, Maverick_60, AvatarAhPeg_58, Huxley_60, Cocoaberry_61, SheldonCooper_61, Gadost_61, BangNhom_60, Annyong_60, Tinybot_60, Obama12_62, Stink_58, Phighter1804_61, Iracema64_62, DirtyDunning_60, Houdini22_60, Avle17_61, Wander_61, Bruiser_60, Mundrea_59, JetBlade_61, Nemo27_60, Shygu2_59

• Track 65 : LochMonster_62, Buckaroo_58, Eros_61, Romney_60, MeeZee_60, Eapen_61, Alberto7_62, Connomayer_61, Blackmoor_60, Scamp_61, LittleB_61, Wilbur_61, Druantia_60, Ulysses_60, Roosevelt_59, Chaph_61, TygerBlood_61, LittleGuy_61, Holli_60, Citius_61, NorthStar_59, Kampy_60, Sabertooth_61, SenorClean_61, Lemur_61, TroyPia_62, Millski_60, Koan_58, Taquarus_60, Deano_59, Commander_60, Bartimeaus_61, Baby16_61, YoSam321_61, Albee_61, Rocksand_59, Flux_61, Skipitt_60, Lorenzo_61, TiroTheta9_60, Clarenza_60, Medusa_61, Melvin_63, Northrop_59, Sparxx_62, Broseidon_61, Koreni_60, Burger_59, Junimo_58, CentreCat_61, Thanksgivukkah_60, Jaykayelowell_58, KekoraPapaka_59, TinaFeyge_59, Pipcraft_58, LappelDuVide_61, Iceman_61, Skadoosh_60, BubbleTrouble_60, Spino_60, Maxo_62, Camperdownii_59, Nyxis_60, Ruin_61, SteMason_60, Florean_61, Bombshell_61, Dhanush_61, RockieBear_61, Polymorphads_62
• Track 66 : Cindaradix_56
• Track 67 : BellusTerra_62
• Track 68 : Kremtemulon_60
• Track 69 : Eagle_60, Eurydice_62, Ohfah_62, Phelipe_62, Abdiel_61, Nebs_62, LeoAvram_60
• Track 70 : Badger_58, Bumblebee11_58, Xena_58, Datway_59, PetiteSangsue_59, Wile_59, Katalie136_59, Achebe_58, Morpher26_59, Cici_59, AbbysRanger_59, Backyardigan_57, Perplexer_59
• Track 71 : Lunsford_62, Phontbonne_61, HamSlice_58, Wizard007_60
• Track 72 : Cintron_60
• Track 73 : Noelle_60
• Track 74 : Stasia_59
• Track 75 : Morrow_62
• Track 76 : FlyCatcher_65, Toro_63, Sheen_63
• Track 77 : DroogsArmy_58
• Track 78 : HINdeR_58
• Track 79 : PP_64
• Track 80 : Timshel_60
• Track 81 : Stephig9_73, Groundhog_73, Dixon_73, Smeadley_74, Danforth_74, Astro_74, Expelliarmus_71
• Track 82 : Roary_75
• Track 83 : NearlyHeadless_74
• Track 84 : Saintus_69
• Track 85 : Caitlin_73
• Track 86 : Phrappuccino_141, Settecandela_141
• Track 87 : Cuke_98
• Track 88 : Farewell_78, Sparky_77
• Track 89 : Causa_182
• Track 90 : StAugustine_176
• Track 91 : Hankly_92, GoCrazy_87, KeaneyLin_89
• Track 92 : Circum_92
• Track 93 : EhyElimayoE_114, Quantum_112, Kradal_113, Satis_113, Sarkar_113
• Track 94 : Nirvana_118
• Track 95 : Frankenweenie_123
• Track 96 : JustBecause_112, Kela_113
• Track 97 : BRock_163
• Track 98 : Alone3_172, LuckySocke_170, Fudan_169
• Track 99 : GiJojo_160
• Track 100 : Beleetus_169
• Track 101 : Garnacho_161

• Track 102 : Talos_171
• Track 103 : Park1214_173
• Track 104 : Spooks_16
• Track 105 : Success_16
• Track 106 : Weasels2_55
• Track 107 : Peregrin_54
• Track 108 : Grayson_55
• Track 109 : Grayson_56
• Track 110 : NiceHouse_229
• Track 111 : Trina_43
• Track 112 : Nova53_233
• Track 113 : Dorin_220, Francesca_221
• Track 114 : Reynauld_80
• Track 115 : Srilaccoli3_77
• Track 116 : PhinkBoden_118, Toniann_118, Cucurbita_119, Culver_119, Aphelion_118, Lozinak_118, Smoothie_119
• Track 117 : Geeche_117, Abscondus_118, Dusty_116, Norvs_118, Engineer_119, ClubL_119
• Track 118 : WilliamBoone_116
• Track 119 : Bachita_120
• Track 120 : Miskis_113
• Track 121 : OneUp_103
• Track 122 : Orchid_65, PatrickStar_66, Kampe_66
• Track 123 : JonJames_129
• Track 124 : Yvonnetastic_125
• Track 125 : Cardigan_127
• Track 126 : GMA3_55
• Track 127 : Towmatter_45
• Track 128 : Daredevil_46
• Track 129 : Bantam_55
• Track 130 : SpeedDemon_560
• Track 131 : Mareelih_168, BlueNGold_167, Forza_171, Boopy_170
• Track 132 : Sixama_169
• Track 133 : Marshmallow_74, FairyPath_77
• Track 134 : PaddyBaddy_76, Bogg_76, Teaspoon_77, Buck_77, GooberAzure_79, Petra64142_80, Highbury_75, NoSleep_77, Glexan_75, Nala_78, TeardropMSU_72, Lilizi_77, Thresher_78, Murica_79, Inca_73, 244_77, Flypotenuse_72, Moldemort_79, Nimrod_77, Gage_78, Balomoji_76, Emmina_76, Phaja_74, HanKaySha_76, Becksu_75, BilboSwaggins_74, StellaBean_74, Myrale_76, AmericanBeauty_80, Manda_77, Ukulele_71, Rimmer_77, Miniwave_71, Youngblood_79, IHOP_74, Elph10_76, MPhalcon_77, Icee_77, Quallification_77, Dusk_73, Kanye_73, Saints25_75, JeTaime_76, Simpliphy_75, Livelaughbron_78, BadStone_73, PhatBacter_80, Lilpickle_75, Holt_81, Rakim_77, StolenFromERC_79, MadamMonkfish_76, Gemini_81, Greep_80, Hoonter_79, Mindy_75, Dumbo_76, Mosby_72, Lilac_78, Kimchi_80, Phaux_78, Cactus_79, NelitzaMV_74, FireRed_80, Eureka_74, BigBubba_76, Hopey_76, Goldilocks_79, Terminus_79, Bench_79, Brewer_72, TBrady12_79, CrystalP_75, Phrux_73, Cjw1_76, BaboJay_73, Goku_74, Asriel_75, Policronamos_79, Henry_74, Bruin_73, Xandras_75, Tuco_77, NonchalantPear_76, Contagion_72, Stank_79, GoldenSpark_80, Traaww1_72, Barbarian_75, Daikon_78, Filch_77, Easy2Say_77, SophKB_73, ShamWow_76, Porky_75, Sassay_71, Pumpkin_79, xkcd_79, RiverMonster_76, Czyszczon1_77, Harella_76, Toto_74, Murphy_76, Pharsalus_73, Gator_74, Command613_78, StormChicken_78, Stark_77, Elite2014_75, Misfit_77, Maxxinista_78,

ChosenOne_76, Tarkin_75, Argent26_80, Adnama_80, Willez_71, ABCat_73, Wiggin_78, Ptowny_73, HufflyPuff_79, DrDrey_76, Sotrice96_77, MollyToe_71, Paperbeatsrock_75, Thimble_77
• Track 135 : Budgie_82, YassJohnny_73, Tomaszewski_71
• Track 136 : Cookies_73, ChotaBhai_76, SirDuracell_75, DoctorDiddles_75
• Track 137 : MISSy_77, Kostya_76, FoghornLeghorn_70, Palpatine_78, BugsBunny_76
• Track 138 : Bask21_76, TeamEdward_78, Pat3_74, OrionPax_75, Amao_76
• Track 139 : Fastidio_45, Demsculpinboyz_49, Marker_42, DaddyRickover_41
• Track 140 : BuzzLyseyear_47
• Track 141 : Panchaali_55
• Track 142 : ReginaGlobina_62
• Track 143 : Stewart25555_54
• Track 144 : Elver_242
• Track 145 : Kureo_242
• Track 146 : Gandionco_246, Marianna39_246
• Track 147 : JeNeSaisPas_247
• Track 148 : A3Wally_248, PauloDiaboli_248
• Track 149 : Dodo_243
• Track 150 : Erasmago_237
• Track 151 : Cece_217
• Track 152 : Omega_177
• Track 153 : Ibantik_12
• Track 154 : RunningOnE_11
• Track 155 : LeBron_84, Rose5_86, AvadaKedavra_85, Acquire49_85, Tyson_86, JoeDirt_86, Wyatt2_86, UPIE_84, CicholasNage_82
• Track 156 : Silverleaf_85, DirkDirk_82, Appletree2_84
• Track 157 : Poochiewood_83
• Track 158 : Tourach_86
• Track 159 : SoJulia_89
• Track 160 : Finemlucis_87
• Track 161 : Bromden_87
• Track 162 : Quby_86
• Track 163 : Chaser_85
• Track 164 : FarmResident_86, Sheng711_86
• Track 165 : Douzhi_85
• Track 166 : ChutneyChips_87
• Track 167 : BrainDrainer_86, PYPDinur_85
• Track 168 : Douge_87
• Track 169 : Kropertea_82
• Track 170 : DyoEdafos_89
• Track 171 : PegLeg_127
• Track 172 : KleverKiS_127, TyDawg_119, IPhane7_122, TpudiCK_126, Bongo_123, Bricole_126, LilhomieP_124, Auspice_124, FreakyGoo_125
• Track 173 : Glaske16_127, Izel_125, Dulcita_125, Skinny_130, Diminimus_125
• Track 174 : Reindeer_128
• Track 175 : SlimJimmy_123
• Track 176 : RoseMarie_134
• Track 177 : Aziz_139, GenevaB15_142
• Track 178 : GardenSalsa_140, MrMagoo_142
• Track 179 : Estes_140
• Track 180 : Rey_142
• Track 181 : Nanosmite_135

• Track 182 : Blackbeetle_74, Poise_74
• Track 183 : RedRaider77_73, GoongGoong_73, Gattaca_71, Raela_74, Lilbit_71, LittleLaf_73, Marvin_69, MosMoris_70, Tesla_70
• Track 184 : VasuNzinga_72
• Track 185 : Azrael100_127, Cosmo_135, Wildcat_134, MaryV_120
• Track 186 : EniyanLRS_127
• Track 187 : TPA4_57
• Track 188 : Kumao_84

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

The start number called the most often in the published annotations is 66, it was called in 180 of the 625 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A3Wally_248, ACFishhook_65, AN9_68, ANI8_68, Abscondus_118, Acquire49_85, Adzzy_67, Aglet_68, AgronaGT15_66, Alone3_172, Aneem_64, Aphelion_118, Appletree2_84, Astro_74, AugsMagnumOpus_70, AvadaKedavra_85, BRock_163, Bachita_120, Beauxregard13_66, Beleetus_169, Bigflo_67, Bowtie_64, BreSam8_67, Bud_62, BuzzLyseyear_47, Bxz2_62, C3_61, Calvinny_67, Caraxes_64, Cardigan_127, Che12_66, CicholasNage_82, Cintron_60, ClownCar_67, ClubL_119, Colbster_65, Croquant_66, Cucurbita_119, Cullens_67, Culver_119, D29_61, D32_65, DBQu4n_66, DaHudson_66, DaddyRickover_41, Daishi_66, Danforth_74, Demsculpinboyz_49, Dieselweasel_68, DirkDirk_82, Dixon_73, Dodo_243, DroogsArmy_58, Duplo_66, Dusty_116, Engineer_119, EpicPhail_68, Erasmago_237, Et2Brutus_62, Expelliarmus_71, Fastidio_45, Fernando_67, Fibonacci_63, Flaverint_64, FlyCatcher_65, Fudan_169, Geeche_117, Gemma_66, GiJojo_160, Gilberta_64, Grif_67, Groundhog_73, Groupthink_68, Grub_67, Grum1_66, GtownJaz_67, Gwennie_67, HINdeR_58, HashRod_68, HaveUMetTed_68, Heliosoles_66, Hercules11_67, JHC117_65, Jabith_64, JeppNRM_68, JoeDirt_86, JonJames_129, Joselito_64, Jsquared_66, KADY_66, Kalb97_68, Kalnoky_68, Kerberos_66, Killigrew_36, Kimona_58, Koduck_66, Kremtemulon_60, L5_61, LBerry_68, LarryKay_67, LeBron_84, Lilith_66, Louie6_66, Lowa_67, Lozinak_118, Lucivia_64, LuckySocke_170, LugYA_70, MaCh_63, Mabel_63, MadMarie_67, Mainiac_67, MajorMajor_64, Manu_67, Marie_65, Marius_68, Marker_42, Methuselah_62, Microwolf_65, Miskis_113, Misomonster_68, MissWhite_64, MoneyMay_66, MuchMore_70, Mulciber_62, Munch_63, Naji_66, NearlyHeadless_74, Norvs_118, OlanP_66, Ollie_67, Orange_62, P28Green_68, PGHhamlin_69, Park1214_173, PauloDiaboli_248, Pawn_67, Penny1_67, Petersenfast_63, Ph8s_66, PhinkBoden_118, PhishRPhriends_65, Phoebe_68, Phoxy_67, Phranny_68, Pomar16_65, PotatoSplit_68, PurpleHaze_67, Quokka_64, Reba_67, Rose5_86, Sabinator_65, Saintus_69, Salz_62, Saskia_64, Serenity_65, Sheen_63, Silverleaf_85, Smeadley_74, Smoothie_119, Snape_63, Snickers_67, SoYo_66, SoilDragon_67, Soshari_69, Spike509_67, StarStuff_66, Stephig9_73, Superchunk_64, SwirlSquare_69, Talos_171, Timothy_63, Timshel_60, TinyPebbles_66, TinyTimmy_63, TipsytheTRex_62, Tomathan_66, Toniann_118, Toro_63, Travvers_65, Tyson_86, UPIE_84, VC3_67, Vix_65, WilliamBoone_116, Wooldri_69, Wyatt2_86, Yvonnetastic_125, Zetzy_66,

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

• Anubis_70, Bachome_65, Bradman_65, BuzzBuzz_63, Caitlin_73, Cuke_98, Ebony_63, Farber_67, Farewell_78, GingkoMaracino_67, Hutc2_62, Insomnia_64, JenCasNa_68, Jobu08_65, Kimba_63, Kinmap_63, Malinsilva_69, MarQuardt_67, Montavir_64, Odin_64, OneUp_103, Pembroke_67, Poochiewood_83, Roary_75, Rummer_66, Sabia_67, Sham4_63, Sparky_77, Stagni_66, StepMih_66, Taurus_68, Tiffany_66, Watson_66, Wolpertinger_61,

Genes that do not have the "Most Annotated" start:
• 244_77, ABCat_73, AbbysRanger_59, Abdiel_61, Achebe_58, Adnama_80, Albee_61, Alberto7_62, Amao_76, AmericanBeauty_80, Annyong_60, Anthony_67, Argent26_80, Arturo_59, Asriel_75, Auspice_124, AvatarAhPeg_58, Avle17_61, Aziz_139, Azrael100_127, B1_56, BaboJay_73, Baby16_61, BabyJohn_59, BabyRay_64, Backyardigan_57, BadStone_73, Badger_58, Balomoji_76, BangNhom_60, Bantam_55, Barbarian_75, Bartimeaus_61, Bask21_76, Becksu_75, BellusTerra_62, Bench_79, BigBubba_76, BilboSwaggins_74, Blackbeetle_74, Blackmoor_60, BlueBird_66, BlueNGold_167, Bogg_76, Bombshell_61, Bongo_123, Boopy_170, BrainDrainer_86, Brewer_72, Bricole_126, Bromden_87, Broseidon_61, Bruin_73, Bruiser_60, BubbleTrouble_60, Buck_77, Buckaroo_58, Budgie_82, Bugatti_66, BugsBunny_76, Bumblebee11_58, Burger_59, Cactus_79, Caelakin_60, Camperdownii_59, Cat_59, Causa_182, Caviar_63, Cece_217, CentreCat_61, Cerulean_62, ChampagnePapi_63, Chaph_61, Chaser_85, Chiqui_59, ChosenOne_76, ChotaBhai_76, ChutneyChips_87, Cici_59, Cindaradix_56, Circum_92, Citius_61, Cjw1_76, Clammy_66, Clarenza_60, Cocoaberry_61, Command613_78, Commander_60, Connomayer_61, Contagion_72, Cookies_73, Cosmo_135, CrystalP_75, Czyszczon1_77, Daikon_78, Daredevil_46, Datway_59, Deano_59, Dhanush_61, Diminimus_125, DirtyDunning_60, DoctorDiddles_75, Dorin_220, Douge_87, Douzhi_85, DrDrey_76, DropBear_64, Druantia_60, Dulcita_125, Dumbo_76, Dusk_73, DyoEdafos_89, Eagle_60, Eapen_61, Easy2Say_77, EhyElimayoE_114, Elite2014_75, Elph10_76, Elver_242, Emmina_76, EniyanLRS_127, Eris_60, Eros_61, Estes_140, EtoileNova_62, Eureka_74, Eurydice_62, FairyPath_77, FarmResident_86, FatCactus_66, Filch_77, Finemlucis_87, FireRed_80, Florean_61, Flux_61, Flypotenuse_72, FoghornLeghorn_70, Forza_171, Francesca_221, Frankenweenie_123, FreakyGoo_125, Fred313_62, Funston_60, GMA3_55, Gadost_61, Gage_78, Gandionco_246, GardenSalsa_140, Garnacho_161, Gator_74, Gattaca_71, Gemini_81, GenevaB15_142, Giroux_66, Glaske16_127, Glexan_75, GoCrazy_87, Goku_74, GoldenSpark_80, Goldilocks_79, GooberAzure_79, GoongGoong_73, Goose1D_56, Goose1X_62, Grayson_55, Grayson_56, Greep_80, HamSlice_58, HanKaySha_76, Hankly_92, Happiness_60, Harella_76, Heathen_64, HelDan_63, Henry_74, Highbury_75, Holli_60, Holt_81, Hookmount_63, Hoonter_79, Hopey_76, Houdini22_60, HufflyPuff_79, Huxley_60, ICleared_60, IHOP_74, IPhane7_122, Ibantik_12, Icee_77, Iceman_61, Idleandcovert_64, Inca_73, Iracema64_62, Isca_62, Izel_125, JF2_62, JF4_62, Jaykayelowell_58, JeNeSaisPas_247, JeTaime_76, JetBlade_61, JoongJeon_60, Junimo_58, JustBecause_112, KFPoly_60, Kachowdy_64, Kampe_66, Kampy_60, Kanye_73, Katalie136_59, KeaneyLin_89, KekoraPapaka_59, Kela_113, Kimchi_80, Kingmustik0402_61, KleverKiS_127, Koan_58, Koreni_60, Kostya_76, Kradal_113, Kratark_60, Kropertea_82, Kumao_84, Kureo_242, Kyee_61, LHTSCC_63, Lambert1_63, LappelDuVide_61, Lemur_61, LeoAvram_60, Lilac_78, Lilbit_71, LilhomieP_124, Lilizi_77, Lilpickle_75, LittleB_61, LittleGuy_61, LittleLaf_73, Livelaughbron_78, LochMonster_62, Lorenzo_61, Lunsford_62, MA5_64, MISSy_77, MK4_64, MPhalcon_77, MadamMonkfish_76, Manda_77, Marchesa_62, Mareelih_168, Margo_63, Marianna39_246, Marshmallow_74, Marvin_69, MaryV_120, Maverick_60, Maxo_62, Maxxinista_78,

Mayonnaise_59, Mazhar510_61, Medusa_61, MeeZee_60, Melvin_63, Millski_60, Mindy_75, Miniwave_71, Miramae_58, Misfit_77, Moldemort_79, MollyToe_71, Morpher26_59, Morrow_62, MosMoris_70, Mosby_72, MrMagoo_142, Mundrea_59, Murica_79, Murphy_76, MyraDee_63, Myrale_76, Nala_78, Nanosmite_135, Nebs_62, NelitzaMV_74, Nemo27_60, NiceHouse_229, Nimrod_77, Nirvana_118, NoSleep_77, Noella_63, Noelle_60, NonchalantPear_76, Norbert_60, NorthStar_59, Northrop_59, NotAPhaseMom_60, Nova53_233, Nyxis_60, OKaNui_61, Obama12_62, Ohfah_62, Omega_177, Orchid_65, OrionPax_75, PP_64, PYPDinur_85, PaddyBaddy_76, Palestino_60, Palpatine_78, Panamaxus_61, Panchaali_55, Paperbeatsrock_75, Pat3_74, PatrickStar_66, Peaches_59, PegLeg_127, Peregrin_54, Perplexer_59, PeterPeter_61, PetiteSangsue_59, Petra64142_80, Phacado_61, Phaja_74, Phantastic_65, Pharsalus_73, PhatBacter_80, Phaux_78, Phelipe_62, Phighter1804_61, Phontbonne_61, Phrappuccino_141, Phrux_73, Pipcraft_58, Pistachio_64, Pocahontas_63, Poise_74, Policronamos_79, Polymorphads_62, Popcicle_63, Porky_75, Ptowny_73, Pumbaa_61, Pumpkin_79, Puppy_64, Quallification_77, Quantum_112, Quby_86, QuinnKiro_62, Raela_74, Rakim_77, RedRaider77_73, ReginaGlobina_62, Reindeer_128, Relief_60, ResDef_62, Rey_142, Reynauld_80, Rimmer_77, RiverMonster_76, RockieBear_61, Rocksand_59, Rockstar_62, Roimos_62, Romney_60, Roosevelt_59, Rosa24_59, RoseMarie_134, Ruin_61, RunningOnE_11, Sabertooth_61, Saints25_75, Sarkar_113, Sassay_71, Satis_113, SaturnRing_64, Scamp_61, Scout_63, SenorClean_61, Settecandela_141, Shaka_59, ShamWow_76, SheldonCooper_61, Sheng711_86, Shep_62, Shygu2_59, Simpliphy_75, SirDuracell_75, Sixama_169, Skadoosh_60, Skinny_130, Skipitt_60, SlimJimmy_123, SoJulia_89, SophKB_73, Sotrice96_77, Sparxx_62, SpeedDemon_560, Spino_60, Spooks_16, Srilaccoli3_77, StAugustine_176, Stank_79, Stark_77, Stasia_59, SteMason_60, StellaBean_74, Stewart25555_54, Stink_58, StolenFromERC_79, StormChicken_78, Success_16, Sultana_61, TBrady12_79, TNguyen7_65, TPA4_57, Taquarus_60, Tarkin_75, TeamEdward_78, TeardropMSU_72, Teaspoon_77, Terminus_79, Tesla_70, Texage_61, Thanksgivukkah_60, Thimble_77, Thresher_78, TinaFeyge_59, Tinybot_60, TiroTheta9_60, Todacoro_63, Tomaszewski_71, Toto_74, Tourach_86, Towmatter_45, TpudiCK_126, Traaww1_72, Trina_43, TroyPia_62, Tuco_77, TyDawg_119, TygerBlood_61, Ukulele_71, Ulysses_60, VasuNzinga_72, Veracruz_61, Wander_61, Weasels2_55, Wiggin_78, Wilbur_61, Wildcat_134, Wile_59, Willez_71, Wizard007_60, Xandras_75, Xena_58, YassJohnny_73, YoSam321_61, Youngblood_79, Zarafa_62, xkcd_79,

Summary by start number:

Start 16:
• Found in 57 of 683 (8.3%) of genes in pham
• Manual Annotations of this start: 8 of 625
• Called 15.8% of time when present
• Phage (with cluster) where this start called: B1_56 (A3), BabyRay_64 (A3), Fred313_62 (A3), HelDan_63 (A3), Isca_62 (A3), JF2_62 (A3), Phantastic_65 (A3), Rockstar_62 (A3), Shep_62 (A3),

Start 18:
• Found in 197 of 683 (28.8%) of genes in pham
• Manual Annotations of this start: 171 of 625
• Called 95.4% of time when present

• Phage (with cluster) where this start called: AbbysRanger_59 (A4), Abdiel_61 (A4), Achebe_58 (A4), Albee_61 (A4), Alberto7_62 (A4), Annyong_60 (A4), Arturo_59 (A4), AvatarAhPeg_58 (A4), Avle17_61 (A4), Baby16_61 (A4), BabyJohn_59 (A3), Backyardigan_57 (A4), Badger_58 (A4), BangNhom_60 (A4), Bartimeaus_61 (A4), BellusTerra_62 (A4), Blackmoor_60 (A4), BlueBird_66 (A3), Bombshell_61 (A4), Broseidon_61 (A4), Bruiser_60 (A4), BubbleTrouble_60 (A4), Buckaroo_58 (A4), Bugatti_66 (A3), Bumblebee11_58 (A4), Burger_59 (A4), Caelakin_60 (A4), Camperdownii_59 (A4), Cat_59 (A3), Caviar_63 (A3), CentreCat_61 (A4), Cerulean_62 (A4), ChampagnePapi_63 (A4), Chaph_61 (A4), Chiqui_59 (A3), Cici_59 (A4), Cindaradix_56 (A4), Citius_61 (A4), Clammy_66 (A3), Clarenza_60 (A4), Cocoaberry_61 (A4), Commander_60 (A4), Connomayer_61 (A4), Datway_59 (A4), Deano_59 (A4), Dhanush_61 (A4), DirtyDunning_60 (A4), DropBear_64 (A3), Druantia_60 (A4), Eagle_60 (A4), Eapen_61 (A4), Eris_60 (A4), Eros_61 (A4), EtoileNova_62 (A3), Eurydice_62 (A4), Florean_61 (A4), Flux_61 (A4), Funston_60 (A4), Gadost_61 (A4), Giroux_66 (A3), Goose1D_56 (A3), Goose1X_62 (A3), HamSlice_58 (A4), Happiness_60 (A4), Heathen_64 (A3), Holli_60 (A4), Hookmount_63 (A3), Houdini22_60 (A4), Huxley_60 (A4), ICleared_60 (A4), Iceman_61 (A4), Idleandcovert_64 (A3), Iracema64_62 (A4), JF4_62 (A3), Jaykayelowell_58 (A4), JetBlade_61 (A4), JoongJeon_60 (A4), Junimo_58 (A4), KFPoly_60 (A4), Kachowdy_64 (A3), Kampy_60 (A4), Katalie136_59 (A4), KekoraPapaka_59 (A4), Kingmustik0402_61 (A4), Koan_58 (A4), Koreni_60 (A4), Kratark_60 (A4), Kyee_61 (A4), LHTSCC_63 (A4), Lambert1_63 (A3), LappelDuVide_61 (A4), Lemur_61 (A4), LeoAvram_60 (A4), LittleB_61 (A4), LittleGuy_61 (A4), LochMonster_62 (A4), Lorenzo_61 (A4), Lunsford_62 (A4), MA5_64 (A3), MK4_64 (A3), Marchesa_62 (A3), Margo_63 (A3), Maverick_60 (A4), Maxo_62 (A4), Mayonnaise_59 (A4), Mazhar510_61 (A4), Medusa_61 (A4), MeeZee_60 (A4), Melvin_63 (A4), Millski_60 (A4), Miramae_58 (A4), Morpher26_59 (A4), Morrow_62 (A4), Mundrea_59 (A4), Nebs_62 (A4), Nemo27_60 (A4), Noella_63 (A3), Noelle_60 (A4), Norbert_60 (A3), NorthStar_59 (A4), Northrop_59 (A4), NotAPhaseMom_60 (A4), Nyxis_60 (A4), OKaNui_61 (A4), Obama12_62 (A4), Ohfah_62 (A4), Palestino_60 (A4), Panamaxus_61 (A3), Peaches_59 (A4), Perplexer_59 (A4), PeterPeter_61 (A4), PetiteSangsue_59 (A4), Phacado_61 (A4), Phelipe_62 (A4), Phighter1804_61 (A4), Phontbonne_61 (A4), Pipcraft_58 (A4), Pistachio_64 (A3), Pocahontas_63 (A3), Polymorphads_62 (A4), Popcicle_63 (A3), Pumbaa_61 (A4), Puppy_64 (A3), QuinnKiro_62 (A3), Relief_60 (A4), ResDef_62 (A3), RockieBear_61 (A4), Rocksand_59 (A4), Roimos_62 (A3), Romney_60 (A4), Roosevelt_59 (A4), Rosa24_59 (A4), Ruin_61 (A4), Sabertooth_61 (A4), SaturnRing_64 (A3), Scamp_61 (A4), Scout_63 (A3), SenorClean_61 (A4), Shaka_59 (A4), SheldonCooper_61 (A4), Shygu2_59 (A4), Skadoosh_60 (A4), Skipitt_60 (A4), Sparxx_62 (A4), Spino_60 (A4), Stasia_59 (A4), SteMason_60 (A4), Stink_58 (A4), Sultana_61 (A4), TNguyen7_65 (A3), Taquarus_60 (A4), Texage_61 (A3), Thanksgivukkah_60 (A4), TinaFeyge_59 (A4), Tinybot_60 (A4), TiroTheta9_60 (A4), Todacoro_63 (A3), TroyPia_62 (A4), TygerBlood_61 (A4), Ulysses_60 (A4), Veracruz_61 (A3), Wander_61 (A4), Wilbur_61 (A4), Wile_59 (A4), Wizard007_60 (A4), Xena_58 (A4), YoSam321_61 (A4), Zarafa_62 (A3),

Start 36:
• Found in 3 of 683 (0.4%) of genes in pham
• Manual Annotations of this start: 3 of 625
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dorin_220 (CG), Francesca_221 (CG), Nova53_233 (CG),

Start 39:
• Found in 2 of 683 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Omega_177 (J),

Start 41:
• Found in 1 of 683 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cuke_98 (AC),

Start 42:
• Found in 17 of 683 (2.5%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 5.9% of time when present
• Phage (with cluster) where this start called: PegLeg_127 (M1),

Start 47:
• Found in 1 of 683 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OneUp_103 (CQ2),

Start 53:
• Found in 12 of 683 (1.8%) of genes in pham
• Manual Annotations of this start: 2 of 625
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Caitlin_73 (A8), Roary_75 (A8),

Start 56:
• Found in 1 of 683 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MyraDee_63 (A18),

Start 58:
• Found in 6 of 683 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Finemlucis_87 (L2),

Start 60:
• Found in 50 of 683 (7.3%) of genes in pham
• Manual Annotations of this start: 21 of 625
• Called 42.0% of time when present
• Phage (with cluster) where this start called: Bachome_65 (A11), Blackbeetle_74 (S), Ebony_63 (A11), Gattaca_71 (S), GoongGoong_73 (S), Hutc2_62 (A11), Insomnia_64 (A11), Kimba_63 (A11), Lilbit_71 (S), LittleLaf_73 (S), Marvin_69 (S), MosMoris_70 (S), Phrappuccino_141 (AA), Poise_74 (S), Raela_74 (S), RedRaider77_73 (S), Settecandela_141 (AA), Sham4_63 (A11), Tesla_70 (S), VasuNzinga_72 (S), Wolpertinger_61 (A11),

Start 61:
• Found in 98 of 683 (14.3%) of genes in pham
• Manual Annotations of this start: 9 of 625
• Called 9.2% of time when present
• Phage (with cluster) where this start called: Anthony_67 (A20), Anubis_70 (A3), Causa_182 (AI), Farber_67 (A3), Farewell_78 (AF), Jobu08_65 (A3), Sparky_77 (AF), StAugustine_176 (AI), Tiffany_66 (A3),

Start 62:
• Found in 18 of 683 (2.6%) of genes in pham
• Manual Annotations of this start: 7 of 625
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Bromden_87 (L4), Chaser_85 (L4), Douge_87 (L4), DyoEdafos_89 (L4), ReginaGlobina_62 (FC), Reynauld_80 (CH), SoJulia_89 (L2), Srilaccoli3_77 (CH), Tourach_86 (L2),

Start 63:
• Found in 1 of 683 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_217 (GD3),

Start 64:
• Found in 175 of 683 (25.6%) of genes in pham
• Manual Annotations of this start: 154 of 625
• Called 96.6% of time when present
• Phage (with cluster) where this start called: 244_77 (E), ABCat_73 (E), Adnama_80 (E), Amao_76 (E), AmericanBeauty_80 (E), Argent26_80 (E), Asriel_75 (E), Auspice_124 (M1), Aziz_139 (M2), BaboJay_73 (E), BadStone_73 (E), Balomoji_76 (E), Barbarian_75 (E), Bask21_76 (E), Becksu_75 (E), Bench_79 (E), BigBubba_76 (E), BilboSwaggins_74 (E), Bogg_76 (E), Bongo_123 (M1), Brewer_72 (E), Bricole_126 (M1), Bruin_73 (E), Buck_77 (E), Budgie_82 (E), Cactus_79 (E), ChosenOne_76 (E), ChotaBhai_76 (E), Cjw1_76 (E), Command613_78 (E), Contagion_72 (E), Cookies_73 (E), CrystalP_75 (E), Czyszczon1_77 (E), Daikon_78 (E), Diminimus_125 (M1), DoctorDiddles_75 (E), DrDrey_76 (E), Dulcita_125 (M1), Dumbo_76 (E), Dusk_73 (E), Easy2Say_77 (E), Elite2014_75 (E), Elph10_76 (E), Elver_242 (FK), Emmina_76 (E), Estes_140 (M2), Eureka_74 (E), FairyPath_77 (E), Filch_77 (E), FireRed_80 (E), Flypotenuse_72 (E), FreakyGoo_125 (M1), Gage_78 (E), Gandionco_246 (FK), GardenSalsa_140 (M2), Gator_74 (E), Gemini_81 (E), GenevaB15_142 (M2), Glaske16_127 (M1), Glexan_75 (E), Goku_74 (E), GoldenSpark_80 (E), Goldilocks_79 (E), GooberAzure_79 (E), Greep_80 (E), HanKaySha_76 (E), Harella_76 (E), Henry_74 (E), Highbury_75 (E), Holt_81 (E), Hoonter_79 (E), Hopey_76 (E), HufflyPuff_79 (E), IHOP_74 (E), IPhane7_122 (M1), Icee_77 (E), Inca_73 (E), Izel_125 (M1), JeNeSaisPas_247 (FK), JeTaime_76 (E), Kanye_73 (E), Kimchi_80 (E), KleverKiS_127 (M1), Kureo_242 (FK), Lilac_78 (E), LilhomieP_124 (M1), Lilizi_77 (E), Lilpickle_75 (E), Livelaughbron_78 (E), MPhalcon_77 (E), MadamMonkfish_76 (E), Manda_77 (E), Marianna39_246 (FK), Marshmallow_74 (E), Maxxinista_78 (E), Mindy_75 (E), Miniwave_71 (E), Misfit_77 (E), Moldemort_79 (E), MollyToe_71 (E), Mosby_72 (E), MrMagoo_142 (M2), Murica_79 (E), Murphy_76 (E), Myrale_76 (E), Nala_78 (E), Nanosmite_135 (M3), NelitzaMV_74 (E), Nimrod_77 (E), NoSleep_77 (E), NonchalantPear_76 (E), OrionPax_75 (E), PP_64 (A7), PaddyBaddy_76 (E), Paperbeatsrock_75 (E), Pat3_74 (E), Petra64142_80 (E), Phaja_74 (E), Pharsalus_73 (E), PhatBacter_80 (E),

Phaux_78 (E), Phrux_73 (E), Policronamos_79 (E), Porky_75 (E), Ptowny_73 (E), Pumpkin_79 (E), Quallification_77 (E), Rakim_77 (E), Reindeer_128 (M1), Rey_142 (M2), Rimmer_77 (E), RiverMonster_76 (E), RoseMarie_134 (M1), Saints25_75 (E), Sassay_71 (E), ShamWow_76 (E), Simpliphy_75 (E), SirDuracell_75 (E), Skinny_130 (M1), SlimJimmy_123 (M1), SophKB_73 (E), Sotrice96_77 (E), Stank_79 (E), Stark_77 (E), StellaBean_74 (E), StolenFromERC_79 (E), StormChicken_78 (E), TBrady12_79 (E), Tarkin_75 (E), TeamEdward_78 (E), TeardropMSU_72 (E), Teaspoon_77 (E), Terminus_79 (E), Thimble_77 (E), Thresher_78 (E), Tomaszewski_71 (E), Toto_74 (E), TpudiCK_126 (M1), Traaww1_72 (E), Tuco_77 (E), TyDawg_119 (M1), Ukulele_71 (E), Wiggin_78 (E), Willez_71 (E), Xandras_75 (E), YassJohnny_73 (E), Youngblood_79 (E), xkcd_79 (E),

Start 66:
• Found in 223 of 683 (32.7%) of genes in pham
• Manual Annotations of this start: 180 of 625
• Called 84.8% of time when present
• Phage (with cluster) where this start called: A3Wally_248 (GD1), ACFishhook_65 (A3), AN9_68 (A2), ANI8_68 (A2), Abscondus_118 (CQ1), Acquire49_85 (L1), Adzzy_67 (A2), Aglet_68 (A3), AgronaGT15_66 (A3), Alone3_172 (BS), Aneem_64 (A11), Aphelion_118 (CQ1), Appletree2_84 (L1), Astro_74 (A8), AugsMagnumOpus_70 (A3), AvadaKedavra_85 (L1), BRock_163 (BS), Bachita_120 (CQ1), Beauxregard13_66 (A3), Beleetus_169 (BS), Bigflo_67 (A3), Bowtie_64 (A11), BreSam8_67 (A3), Bud_62 (A11), BuzzLyseyear_47 (F1), Bxz2_62 (A3), C3_61 (A2), Calvinny_67 (A3), Caraxes_64 (A2), Cardigan_127 (DD), Che12_66 (A2), CicholasNage_82 (L1), Cintron_60 (A4), ClownCar_67 (A3), ClubL_119 (CQ1), Colbster_65 (A3), Croquant_66 (A3), Cucurbita_119 (CQ1), Cullens_67 (A3), Culver_119 (CQ1), D29_61 (A2), D32_65 (A2), DBQu4n_66 (A2), DaHudson_66 (A3), DaddyRickover_41 (F1), Daishi_66 (A3), Danforth_74 (A8), Demsculpinboyz_49 (F2), Dieselweasel_68 (A3), DirkDirk_82 (L1), Dixon_73 (A8), Dodo_243 (GD1), DroogsArmy_58 (A7), Duplo_66 (A2), Dusty_116 (CQ1), Engineer_119 (CQ1), EpicPhail_68 (A3), Erasmago_237 (GD2), Et2Brutus_62 (A11), Expelliarmus_71 (A8), Fastidio_45 (F1), Fernando_67 (A3), Fibonacci_63 (A11), Flaverint_64 (A11), FlyCatcher_65 (A7), Fudan_169 (BS), Geeche_117 (CQ1), Gemma_66 (A3), GiJojo_160 (BS), Gilberta_64 (A11), Grif_67 (A3), Groundhog_73 (A8), Groupthink_68 (A3), Grub_67 (A3), Grum1_66 (A3), GtownJaz_67 (A3), Gwennie_67 (A3), HINdeR_58 (A7), HashRod_68 (A3), HaveUMetTed_68 (A3), Heliosoles_66 (A3), Hercules11_67 (A3), JHC117_65 (A3), Jabith_64 (A11), JeppNRM_68 (A3), JoeDirt_86 (L1), JonJames_129 (DD), Joselito_64 (A11), Jsquared_66 (A2), KADY_66 (A3), Kalb97_68 (A3), Kalnoky_68 (A3), Kerberos_66 (A2), Killigrew_36 (A1), Kimona_58 (A19), Koduck_66 (A2), Kremtemulon_60 (A4), L5_61 (A2), LBerry_68 (A3), LarryKay_67 (A3), LeBron_84 (L1), Lilith_66 (A3), Louie6_66 (A3), Lowa_67 (A3), Lozinak_118 (CQ1), Lucivia_64 (A11), LuckySocke_170 (BS), LugYA_70 (A3), MaCh_63 (A11), Mabel_63 (A11), MadMarie_67 (A3), Mainiac_67 (A3), MajorMajor_64 (A2), Manu_67 (A3), Marie_65 (A3), Marius_68 (A3), Marker_42 (F1), Methuselah_62 (A3), Microwolf_65 (A3), Miskis_113 (CQ1), Misomonster_68 (A3), MissWhite_64 (A2), MoneyMay_66 (A3), MuchMore_70 (A3), Mulciber_62 (A11), Munch_63 (A11), Naji_66 (A2), NearlyHeadless_74 (A8), Norvs_118 (CQ1), OlanP_66 (A3), Ollie_67 (A3), Orange_62 (A11), P28Green_68 (A3), PGHhamlin_69 (A3), Park1214_173 (BS), PauloDiaboli_248 (GD1), Pawn_67 (A3), Penny1_67 (A3), Petersenfast_63 (A11), Ph8s_66 (A2), PhinkBoden_118 (CQ1), PhishRPhriends_65 (A3), Phoebe_68 (A3), Phoxy_67 (A3), Phranny_68 (A3), Pomar16_65 (A2), PotatoSplit_68 (A3), PurpleHaze_67 (A3), Quokka_64 (A2), Reba_67 (A3), Rose5_86 (L1), Sabinator_65 (A3), Saintus_69 (A8), Salz_62 (A11), Saskia_64 (A11),

Serenity_65 (A2), Sheen_63 (A7), Silverleaf_85 (L1), Smeadley_74 (A8), Smoothie_119 (CQ1), Snape_63 (A11), Snickers_67 (A3), SoYo_66 (A3), SoilDragon_67 (A3), Soshari_69 (A3), Spike509_67 (A3), StarStuff_66 (A2), Stephig9_73 (A8), Superchunk_64 (A2), SwirlSquare_69 (A2), Talos_171 (BS), Timothy_63 (A11), Timshel_60 (A7), TinyPebbles_66 (A3), TinyTimmy_63 (A11), TipsytheTRex_62 (A2), Tomathan_66 (A2), Toniann_118 (CQ1), Toro_63 (A7), Travvers_65 (A2), Tyson_86 (L1), UPIE_84 (L1), VC3_67 (A2), Vix_65 (A3), WilliamBoone_116 (CQ1), Wooldri_69 (A3), Wyatt2_86 (L1), Yvonnetastic_125 (DD), Zetzy_66 (A3),

Start 67:
• Found in 12 of 683 (1.8%) of genes in pham
• Manual Annotations of this start: 10 of 625
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_127 (V), Circum_92 (AM), Cosmo_135 (V), EniyanLRS_127 (V), Garnacho_161 (BS), GoCrazy_87 (AM), Hankly_92 (AM), KeaneyLin_89 (AM), MaryV_120 (V), Stewart25555_54 (FC), TPA4_57 (singleton), Wildcat_134 (V),

Start 69:
• Found in 2 of 683 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 625
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bantam_55 (DL), SpeedDemon_560 (DL),

Start 70:
• Found in 116 of 683 (17.0%) of genes in pham
• Manual Annotations of this start: 15 of 625
• Called 13.8% of time when present
• Phage (with cluster) where this start called: BuzzBuzz_63 (A3), GingkoMaracino_67 (A3), JenCasNa_68 (A3), Kinmap_63 (A21), Kumao_84 (singleton), Malinsilva_69 (A3), MarQuardt_67 (A3), Montavir_64 (A3), Odin_64 (A2), Pembroke_67 (A3), Rummer_66 (A3), Sabia_67 (A3), Stagni_66 (A3), StepMih_66 (A3), Taurus_68 (A3), Watson_66 (A3),

Start 72:
• Found in 169 of 683 (24.7%) of genes in pham
• Manual Annotations of this start: 12 of 625
• Called 8.9% of time when present
• Phage (with cluster) where this start called: Bradman_65 (A2), BugsBunny_76 (E), EhyElimayoE_114 (BM), FoghornLeghorn_70 (E), Frankenweenie_123 (BM), JustBecause_112 (BM), Kela_113 (BM), Kostya_76 (E), Kradal_113 (BM), MISSy_77 (E), Nirvana_118 (BM), Palpatine_78 (E), Quantum_112 (BM), Sarkar_113 (BM), Satis_113 (BM),

Start 75:
• Found in 2 of 683 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 625
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Daredevil_46 (DL), Towmatter_45 (DL),

Start 79:

• Found in 4 of 683 (0.6%) of genes in pham
• Manual Annotations of this start: 4 of 625
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Grayson_55 (CB), Grayson_56 (CB), Peregrin_54 (CB), Weasels2_55 (CB),

Start 81:
• Found in 7 of 683 (1.0%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: GMA3_55 (DF2),

Start 86:
• Found in 9 of 683 (1.3%) of genes in pham
• Manual Annotations of this start: 4 of 625
• Called 44.4% of time when present
• Phage (with cluster) where this start called: Kampe_66 (CX), Orchid_65 (CX), PatrickStar_66 (CX), Trina_43 (CE),

Start 88:
• Found in 6 of 683 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 16.7% of time when present
• Phage (with cluster) where this start called: NiceHouse_229 (CE),

Start 89:
• Found in 1 of 683 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RunningOnE_11 (JN),

Start 90:
• Found in 52 of 683 (7.6%) of genes in pham
• Manual Annotations of this start: 4 of 625
• Called 15.4% of time when present
• Phage (with cluster) where this start called: BrainDrainer_86 (L4), ChutneyChips_87 (L4), FatCactus_66 (A20), PYPDinur_85 (L4), Poochiewood_83 (L1), Quby_86 (L4), Spooks_16 (BT), Success_16 (BT),

Start 92:
• Found in 15 of 683 (2.2%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 6.7% of time when present
• Phage (with cluster) where this start called: Ibantik_12 (JN),

Start 98:
• Found in 38 of 683 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 10.5% of time when present
• Phage (with cluster) where this start called: Douzhi_85 (L4), FarmResident_86 (L4), Kropertea_82 (L4), Sheng711_86 (L4),

Start 99:

• Found in 5 of 683 (0.7%) of genes in pham
• Manual Annotations of this start: 5 of 625
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BlueNGold_167 (DS), Boopy_170 (DS), Forza_171 (DS), Mareelih_168 (DS), Sixama_169 (DS),

Start 102:
• Found in 10 of 683 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 625
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Panchaali_55 (FC),

Summary by clusters:

There are 49 clusters represented in this pham: GD1, singleton, GD3, BM, DD, V, DL, BT, JN, FC, M1, M3, BS, FK, DS, A11, AF, A19, A18, DF2, A1, A3, A2, A4, A7, CB, A8, CQ1, AA, AC, CH, E, A21, AI, CG, J, AM, CE, L4, CX, L2, L1, A20, F1, F2, CQ2, S, GD2, M2,

Info for manual annotations of cluster A1:
•Start number 66 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A11:
•Start number 60 was manually annotated 7 times for cluster A11.
•Start number 66 was manually annotated 21 times for cluster A11.

Info for manual annotations of cluster A18:
•Start number 56 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:
•Start number 66 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 66 was manually annotated 25 times for cluster A2.
•Start number 70 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:
•Start number 61 was manually annotated 1 time for cluster A20.
•Start number 90 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A21:
•Start number 70 was manually annotated 1 time for cluster A21.

Info for manual annotations of cluster A3:
•Start number 16 was manually annotated 8 times for cluster A3.
•Start number 18 was manually annotated 29 times for cluster A3.
•Start number 61 was manually annotated 4 times for cluster A3.
•Start number 66 was manually annotated 72 times for cluster A3.
•Start number 70 was manually annotated 12 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 18 was manually annotated 142 times for cluster A4.
•Start number 66 was manually annotated 2 times for cluster A4.

Info for manual annotations of cluster A7:
•Start number 64 was manually annotated 1 time for cluster A7.
•Start number 66 was manually annotated 4 times for cluster A7.

Info for manual annotations of cluster A8:
•Start number 53 was manually annotated 2 times for cluster A8.
•Start number 66 was manually annotated 9 times for cluster A8.

Info for manual annotations of cluster AA:
•Start number 60 was manually annotated 2 times for cluster AA.

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

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

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

Info for manual annotations of cluster AM:
•Start number 67 was manually annotated 4 times for cluster AM.

Info for manual annotations of cluster BM:
•Start number 72 was manually annotated 9 times for cluster BM.

Info for manual annotations of cluster BS:
•Start number 66 was manually annotated 7 times for cluster BS.
•Start number 67 was manually annotated 1 time for cluster BS.

Info for manual annotations of cluster BT:
•Start number 90 was manually annotated 2 times for cluster BT.

Info for manual annotations of cluster CB:
•Start number 79 was manually annotated 4 times for cluster CB.

Info for manual annotations of cluster CE:
•Start number 86 was manually annotated 1 time for cluster CE.
•Start number 88 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CG:
•Start number 36 was manually annotated 3 times for cluster CG.

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

Info for manual annotations of cluster CQ1:
•Start number 66 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 47 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CX:
•Start number 86 was manually annotated 3 times for cluster CX.

Info for manual annotations of cluster DD:
•Start number 66 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DL:
•Start number 69 was manually annotated 2 times for cluster DL.
•Start number 75 was manually annotated 2 times for cluster DL.

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

Info for manual annotations of cluster E:
•Start number 64 was manually annotated 130 times for cluster E.
•Start number 72 was manually annotated 3 times for cluster E.

Info for manual annotations of cluster F1:
•Start number 66 was manually annotated 4 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 66 was manually annotated 1 time for cluster F2.

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

Info for manual annotations of cluster FK:
•Start number 64 was manually annotated 2 times for cluster FK.

Info for manual annotations of cluster GD1:
•Start number 66 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD3:
•Start number 63 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster J:
•Start number 39 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster JN:
•Start number 89 was manually annotated 1 time for cluster JN.
•Start number 92 was manually annotated 1 time for cluster JN.

Info for manual annotations of cluster L1:
•Start number 66 was manually annotated 12 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 58 was manually annotated 1 time for cluster L2.
•Start number 62 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L4:
•Start number 62 was manually annotated 4 times for cluster L4.

•Start number 90 was manually annotated 1 time for cluster L4.
•Start number 98 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster M1:
•Start number 42 was manually annotated 1 time for cluster M1.
•Start number 64 was manually annotated 14 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 64 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 64 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster S:
•Start number 60 was manually annotated 12 times for cluster S.

Info for manual annotations of cluster V:
•Start number 67 was manually annotated 5 times for cluster V.

Gene Information:

Gene: 244_77 Start: 48199, Stop: 48612, Start Num: 64
Candidate Starts for 244_77:
(Start: 64 @48199 has 154 MA's), (Start: 72 @48214 has 12 MA's), (138, 48361), (183, 48499),

Gene: A3Wally_248 Start: 138625, Stop: 139011, Start Num: 66
Candidate Starts for A3Wally_248:
(Start: 66 @138625 has 180 MA's), (Start: 102 @138712 has 1 MA's), (147, 138796), (177, 138856), (183, 138874), (190, 138895), (209, 138973), (220, 138994),

Gene: ABCat_73 Start: 48552, Stop: 48965, Start Num: 64
Candidate Starts for ABCat_73:
(Start: 64 @48552 has 154 MA's), (Start: 72 @48567 has 12 MA's), (138, 48714), (183, 48852),

Gene: ACFishhook_65 Start: 40901, Stop: 40482, Start Num: 66
Candidate Starts for ACFishhook_65:
(10, 41156), (Start: 61 @40910 has 9 MA's), (Start: 66 @40901 has 180 MA's), (Start: 70 @40892 has 15 MA's), (112, 40799), (183, 40646), (201, 40577),

Gene: AN9_68 Start: 40889, Stop: 40512, Start Num: 66
Candidate Starts for AN9_68:
(23, 41003), (Start: 66 @40889 has 180 MA's), (Start: 70 @40880 has 15 MA's), (78, 40859), (87, 40841), (94, 40826), (183, 40637), (192, 40610), (198, 40586), (201, 40568),

Gene: ANI8_68 Start: 40889, Stop: 40512, Start Num: 66
Candidate Starts for ANI8_68:
(23, 41003), (Start: 66 @40889 has 180 MA's), (Start: 70 @40880 has 15 MA's), (78, 40859), (87, 40841), (94, 40826), (183, 40637), (192, 40610), (198, 40586), (201, 40568),

Gene: AbbysRanger_59 Start: 40097, Stop: 39711, Start Num: 18
Candidate Starts for AbbysRanger_59:

(Start: 18 @40097 has 171 MA's), (150, 39938), (154, 39929), (183, 39845), (201, 39776),

Gene: Abdiel_61 Start: 40247, Stop: 39867, Start Num: 18
Candidate Starts for Abdiel_61:
(Start: 16 @40256 has 8 MA's), (Start: 18 @40247 has 171 MA's), (150, 40088), (151, 40085), (154, 40079), (183, 39995), (201, 39926),

Gene: Abscondus_118 Start: 67747, Stop: 68124, Start Num: 66
Candidate Starts for Abscondus_118:
(43, 67702), (Start: 66 @67747 has 180 MA's), (93, 67807), (183, 68005), (185, 68014), (186, 68017), (190, 68026), (201, 68074),

Gene: Achebe_58 Start: 40080, Stop: 39694, Start Num: 18
Candidate Starts for Achebe_58:
(Start: 18 @40080 has 171 MA's), (150, 39921), (154, 39912), (183, 39828), (201, 39759),

Gene: Acquire49_85 Start: 54457, Stop: 54870, Start Num: 66
Candidate Starts for Acquire49_85:
(Start: 66 @54457 has 180 MA's), (Start: 90 @54508 has 4 MA's), (Start: 92 @54514 has 1 MA's), (183, 54748), (190, 54769), (192, 54775), (201, 54817),

Gene: Adnama_80 Start: 48578, Stop: 48991, Start Num: 64
Candidate Starts for Adnama_80:
(Start: 64 @48578 has 154 MA's), (Start: 72 @48593 has 12 MA's), (138, 48740), (183, 48878),

Gene: Adzzy_67 Start: 39457, Stop: 39080, Start Num: 66
Candidate Starts for Adzzy_67:
(57, 39472), (Start: 66 @39457 has 180 MA's), (Start: 70 @39448 has 15 MA's), (78, 39427), (111, 39361), (150, 39298), (183, 39205), (201, 39136),

Gene: Aglet_68 Start: 40944, Stop: 40525, Start Num: 66
Candidate Starts for Aglet_68:
(2, 41292), (3, 41289), (6, 41250), (Start: 61 @40953 has 9 MA's), (Start: 66 @40944 has 180 MA's), (Start: 70 @40935 has 15 MA's), (112, 40842), (183, 40689), (201, 40620),

Gene: AgronaGT15_66 Start: 40792, Stop: 40373, Start Num: 66
Candidate Starts for AgronaGT15_66:
(2, 41140), (3, 41137), (6, 41098), (Start: 61 @40801 has 9 MA's), (Start: 66 @40792 has 180 MA's), (Start: 70 @40783 has 15 MA's), (112, 40690), (183, 40537), (201, 40468), (227, 40390),

Gene: Albee_61 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Albee_61:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: Alberto7_62 Start: 40580, Stop: 40200, Start Num: 18
Candidate Starts for Alberto7_62:
(Start: 18 @40580 has 171 MA's), (150, 40421), (154, 40412), (183, 40328), (201, 40259), (202, 40253),

Gene: Alone3_172 Start: 89660, Stop: 90058, Start Num: 66
Candidate Starts for Alone3_172:

(Start: 66 @89660 has 180 MA's), (Start: 72 @89672 has 12 MA's), (112, 89756), (116, 89762), (127, 89786), (183, 89927), (191, 89951), (203, 89996), (207, 90008), (221, 90041),

Gene: Amao_76 Start: 47972, Stop: 48385, Start Num: 64
Candidate Starts for Amao_76:
(Start: 64 @47972 has 154 MA's), (Start: 72 @47987 has 12 MA's), (138, 48134), (183, 48272),

Gene: AmericanBeauty_80 Start: 48721, Stop: 49134, Start Num: 64
Candidate Starts for AmericanBeauty_80:
(Start: 64 @48721 has 154 MA's), (Start: 72 @48736 has 12 MA's), (138, 48883), (183, 49021),

Gene: Aneem_64 Start: 39830, Stop: 39456, Start Num: 66
Candidate Starts for Aneem_64:
(1, 40166), (5, 40118), (11, 40061), (25, 39938), (29, 39911), (Start: 60 @39842 has 21 MA's), (Start: 66 @39830 has 180 MA's), (111, 39734), (150, 39671), (154, 39662), (160, 39650), (177, 39596), (183, 39578), (201, 39509),

Gene: Annyong_60 Start: 40288, Stop: 39908, Start Num: 18
Candidate Starts for Annyong_60:
(Start: 18 @40288 has 171 MA's), (150, 40129), (154, 40120), (183, 40036), (201, 39967),

Gene: Anthony_67 Start: 41229, Stop: 40837, Start Num: 61
Candidate Starts for Anthony_67:
(44, 41259), (Start: 61 @41229 has 9 MA's), (Start: 90 @41169 has 4 MA's), (183, 40971), (201, 40902),

Gene: Anubis_70 Start: 40839, Stop: 40411, Start Num: 61
Candidate Starts for Anubis_70:
(2, 41178), (3, 41175), (6, 41136), (7, 41127), (Start: 61 @40839 has 9 MA's), (Start: 66 @40830 has 180 MA's), (Start: 70 @40821 has 15 MA's), (112, 40728), (183, 40575), (201, 40506),

Gene: Aphelion_118 Start: 68628, Stop: 69005, Start Num: 66
Candidate Starts for Aphelion_118:
(43, 68583), (Start: 66 @68628 has 180 MA's), (93, 68688), (183, 68886), (185, 68895), (186, 68898), (190, 68907), (201, 68955), (209, 68985),

Gene: Appletree2_84 Start: 54041, Stop: 54460, Start Num: 66
Candidate Starts for Appletree2_84:
(Start: 66 @54041 has 180 MA's), (138, 54194), (183, 54332), (190, 54353), (192, 54359), (201, 54401),

Gene: Argent26_80 Start: 48359, Stop: 48772, Start Num: 64
Candidate Starts for Argent26_80:
(Start: 64 @48359 has 154 MA's), (Start: 72 @48374 has 12 MA's), (138, 48521), (183, 48659),

Gene: Arturo_59 Start: 40358, Stop: 39978, Start Num: 18
Candidate Starts for Arturo_59:
(Start: 18 @40358 has 171 MA's), (150, 40199), (154, 40190), (183, 40106), (201, 40037),

Gene: Asriel_75 Start: 46915, Stop: 47328, Start Num: 64
Candidate Starts for Asriel_75:
(Start: 64 @46915 has 154 MA's), (Start: 72 @46930 has 12 MA's), (138, 47077), (183, 47215),

Gene: Astro_74 Start: 41340, Stop: 40969, Start Num: 66
Candidate Starts for Astro_74:
(Start: 53 @41361 has 2 MA's), (Start: 66 @41340 has 180 MA's), (150, 41181), (168, 41148), (182, 41091), (183, 41088), (195, 41049), (201, 41019),

Gene: AugsMagnumOpus_70 Start: 40935, Stop: 40516, Start Num: 66
Candidate Starts for AugsMagnumOpus_70:
(2, 41283), (3, 41280), (6, 41241), (Start: 61 @40944 has 9 MA's), (Start: 66 @40935 has 180 MA's), (Start: 70 @40926 has 15 MA's), (112, 40833), (183, 40680), (201, 40611),

Gene: Auspice_124 Start: 65416, Stop: 65913, Start Num: 64
Candidate Starts for Auspice_124:
(27, 65314), (Start: 42 @65374 has 1 MA's), (Start: 64 @65416 has 154 MA's), (Start: 90 @65470 has 4 MA's), (Start: 98 @65494 has 1 MA's), (143, 65605), (149, 65620), (183, 65728), (190, 65749), (201, 65797),

Gene: AvadaKedavra_85 Start: 54536, Stop: 54949, Start Num: 66
Candidate Starts for AvadaKedavra_85:
(Start: 66 @54536 has 180 MA's), (Start: 90 @54587 has 4 MA's), (Start: 92 @54593 has 1 MA's), (183, 54827), (190, 54848), (192, 54854), (201, 54896),

Gene: AvatarAhPeg_58 Start: 39870, Stop: 39484, Start Num: 18
Candidate Starts for AvatarAhPeg_58:
(Start: 18 @39870 has 171 MA's), (150, 39711), (154, 39702), (183, 39618), (201, 39549),

Gene: Avle17_61 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for Avle17_61:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919),

Gene: Aziz_139 Start: 66655, Stop: 67140, Start Num: 64
Candidate Starts for Aziz_139:
(Start: 60 @66646 has 21 MA's), (Start: 64 @66655 has 154 MA's), (121, 66769), (138, 66814), (143, 66832), (183, 66955), (190, 66976), (201, 67024),

Gene: Azrael100_127 Start: 63905, Stop: 64339, Start Num: 67
Candidate Starts for Azrael100_127:
(Start: 67 @63905 has 10 MA's), (Start: 72 @63914 has 12 MA's), (Start: 86 @63950 has 4 MA's), (Start: 88 @63953 has 1 MA's), (115, 64016), (136, 64064), (139, 64070), (146, 64094), (178, 64193), (183, 64208), (204, 64280),

Gene: B1_56 Start: 38826, Stop: 38434, Start Num: 16
Candidate Starts for B1_56:
(Start: 16 @38826 has 8 MA's), (Start: 18 @38817 has 171 MA's), (150, 38661), (177, 38586), (183, 38568), (201, 38499), (209, 38469), (218, 38451),

Gene: BRock_163 Start: 85073, Stop: 85462, Start Num: 66
Candidate Starts for BRock_163:
(31, 84986), (Start: 53 @85052 has 2 MA's), (Start: 66 @85073 has 180 MA's), (Start: 70 @85082 has 15 MA's), (118, 85169), (183, 85331), (203, 85400), (207, 85412), (221, 85445),

Gene: BaboJay_73 Start: 47752, Stop: 48165, Start Num: 64
Candidate Starts for BaboJay_73:
(Start: 64 @47752 has 154 MA's), (Start: 72 @47767 has 12 MA's), (138, 47914), (183, 48052),

Gene: Baby16_61 Start: 40254, Stop: 39874, Start Num: 18
Candidate Starts for Baby16_61:
(Start: 18 @40254 has 171 MA's), (150, 40095), (154, 40086), (183, 40002), (201, 39933), (202, 39927),

Gene: BabyJohn_59 Start: 40644, Stop: 40261, Start Num: 18
Candidate Starts for BabyJohn_59:
(Start: 16 @40653 has 8 MA's), (Start: 18 @40644 has 171 MA's), (150, 40488), (177, 40413), (183, 40395), (190, 40374), (209, 40296),

Gene: BabyRay_64 Start: 40631, Stop: 40239, Start Num: 16
Candidate Starts for BabyRay_64:
(4, 40772), (Start: 16 @40631 has 8 MA's), (Start: 18 @40622 has 171 MA's), (94, 40559), (150, 40466), (183, 40373), (209, 40274), (224, 40244),

Gene: Bachita_120 Start: 68407, Stop: 68784, Start Num: 66
Candidate Starts for Bachita_120:
(43, 68362), (Start: 66 @68407 has 180 MA's), (93, 68467), (183, 68665), (185, 68674), (186, 68677), (201, 68734), (209, 68764),

Gene: Bachome_65 Start: 39822, Stop: 39436, Start Num: 60
Candidate Starts for Bachome_65:
(1, 40146), (5, 40098), (11, 40041), (25, 39918), (Start: 60 @39822 has 21 MA's), (Start: 66 @39810 has 180 MA's), (111, 39714), (150, 39651), (154, 39642), (160, 39630), (177, 39576), (183, 39558), (201, 39489),

Gene: Backyardigan_57 Start: 40113, Stop: 39727, Start Num: 18
Candidate Starts for Backyardigan_57:
(Start: 18 @40113 has 171 MA's), (150, 39954), (154, 39945), (183, 39861), (201, 39792),

Gene: BadStone_73 Start: 48121, Stop: 48534, Start Num: 64
Candidate Starts for BadStone_73:
(Start: 64 @48121 has 154 MA's), (Start: 72 @48136 has 12 MA's), (138, 48283), (183, 48421),

Gene: Badger_58 Start: 40081, Stop: 39695, Start Num: 18
Candidate Starts for Badger_58:
(Start: 18 @40081 has 171 MA's), (150, 39922), (154, 39913), (183, 39829), (201, 39760),

Gene: Balomoji_76 Start: 48682, Stop: 49095, Start Num: 64
Candidate Starts for Balomoji_76:
(Start: 64 @48682 has 154 MA's), (Start: 72 @48697 has 12 MA's), (138, 48844), (183, 48982),

Gene: BangNhom_60 Start: 40646, Stop: 40266, Start Num: 18
Candidate Starts for BangNhom_60:
(Start: 18 @40646 has 171 MA's), (150, 40487), (154, 40478), (183, 40394), (201, 40325),

Gene: Bantam_55 Start: 44365, Stop: 44757, Start Num: 69
Candidate Starts for Bantam_55:
(14, 44140), (68, 44362), (Start: 69 @44365 has 2 MA's), (182, 44623), (183, 44626),

Gene: Barbarian_75 Start: 46915, Stop: 47328, Start Num: 64
Candidate Starts for Barbarian_75:

(Start: 64 @46915 has 154 MA's), (Start: 72 @46930 has 12 MA's), (138, 47077), (183, 47215),

Gene: Bartimeaus_61 Start: 40245, Stop: 39865, Start Num: 18
Candidate Starts for Bartimeaus_61:
(Start: 18 @40245 has 171 MA's), (150, 40086), (154, 40077), (183, 39993), (201, 39924), (202, 39918),

Gene: Bask21_76 Start: 47535, Stop: 47948, Start Num: 64
Candidate Starts for Bask21_76:
(Start: 64 @47535 has 154 MA's), (Start: 72 @47550 has 12 MA's), (138, 47697), (183, 47835),

Gene: Beauxregard13_66 Start: 40947, Stop: 40528, Start Num: 66
Candidate Starts for Beauxregard13_66:
(2, 41295), (3, 41292), (Start: 61 @40956 has 9 MA's), (Start: 66 @40947 has 180 MA's), (Start: 70 @40938 has 15 MA's), (112, 40845), (183, 40692), (201, 40623),

Gene: Becksu_75 Start: 48751, Stop: 49164, Start Num: 64
Candidate Starts for Becksu_75:
(Start: 64 @48751 has 154 MA's), (Start: 72 @48766 has 12 MA's), (138, 48913), (183, 49051),

Gene: Beleetus_169 Start: 88129, Stop: 88518, Start Num: 66
Candidate Starts for Beleetus_169:
(Start: 66 @88129 has 180 MA's), (Start: 70 @88138 has 15 MA's), (112, 88216), (127, 88246), (167, 88327), (183, 88387), (191, 88411), (203, 88456), (207, 88468), (221, 88501),

Gene: BellusTerra_62 Start: 40247, Stop: 39867, Start Num: 18
Candidate Starts for BellusTerra_62:
(Start: 16 @40256 has 8 MA's), (Start: 18 @40247 has 171 MA's), (150, 40088), (154, 40079), (183, 39995), (201, 39926), (202, 39920),

Gene: Bench_79 Start: 48219, Stop: 48632, Start Num: 64
Candidate Starts for Bench_79:
(Start: 64 @48219 has 154 MA's), (Start: 72 @48234 has 12 MA's), (138, 48381), (183, 48519),

Gene: BigBubba_76 Start: 47931, Stop: 48344, Start Num: 64
Candidate Starts for BigBubba_76:
(Start: 64 @47931 has 154 MA's), (Start: 72 @47946 has 12 MA's), (138, 48093), (183, 48231),

Gene: Bigflo_67 Start: 40943, Stop: 40524, Start Num: 66
Candidate Starts for Bigflo_67:
(2, 41291), (3, 41288), (6, 41249), (Start: 61 @40952 has 9 MA's), (Start: 66 @40943 has 180 MA's), (Start: 70 @40934 has 15 MA's), (112, 40841), (183, 40688), (201, 40619),

Gene: BilboSwaggins_74 Start: 48560, Stop: 48973, Start Num: 64
Candidate Starts for BilboSwaggins_74:
(Start: 64 @48560 has 154 MA's), (Start: 72 @48575 has 12 MA's), (138, 48722), (183, 48860),

Gene: Blackbeetle_74 Start: 40595, Stop: 41086, Start Num: 60
Candidate Starts for Blackbeetle_74:
(Start: 60 @40595 has 21 MA's), (132, 40742), (183, 40898), (184, 40901), (195, 40937), (201, 40967), (211, 41000),

Gene: Blackmoor_60 Start: 40245, Stop: 39865, Start Num: 18

Candidate Starts for Blackmoor_60:
(Start: 18 @40245 has 171 MA's), (150, 40086), (154, 40077), (183, 39993), (201, 39924), (202, 39918),

Gene: BlueBird_66 Start: 40669, Stop: 40286, Start Num: 18
Candidate Starts for BlueBird_66:
(4, 40819), (Start: 16 @40678 has 8 MA's), (Start: 18 @40669 has 171 MA's), (150, 40513), (167, 40486), (177, 40438), (183, 40420), (209, 40321), (224, 40291),

Gene: BlueNGold_167 Start: 97256, Stop: 96897, Start Num: 99
Candidate Starts for BlueNGold_167:
(Start: 99 @97256 has 5 MA's), (Start: 102 @97247 has 1 MA's), (105, 97244), (120, 97214), (128, 97193), (146, 97139), (183, 97022), (185, 97013), (190, 97001), (195, 96983),

Gene: Bogg_76 Start: 47498, Stop: 47911, Start Num: 64
Candidate Starts for Bogg_76:
(Start: 64 @47498 has 154 MA's), (Start: 72 @47513 has 12 MA's), (138, 47660), (183, 47798),

Gene: Bombshell_61 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for Bombshell_61:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919), (202, 39913),

Gene: Bongo_123 Start: 65032, Stop: 65529, Start Num: 64
Candidate Starts for Bongo_123:
(27, 64930), (Start: 42 @64990 has 1 MA's), (Start: 64 @65032 has 154 MA's), (Start: 90 @65086 has 4 MA's), (Start: 98 @65110 has 1 MA's), (143, 65221), (149, 65236), (183, 65344), (190, 65365), (201, 65413),

Gene: Boopy_170 Start: 97267, Stop: 96908, Start Num: 99
Candidate Starts for Boopy_170:
(Start: 99 @97267 has 5 MA's), (Start: 102 @97258 has 1 MA's), (105, 97255), (120, 97225), (128, 97204), (146, 97150), (183, 97033), (185, 97024), (190, 97012), (195, 96994),

Gene: Bowtie_64 Start: 39837, Stop: 39463, Start Num: 66
Candidate Starts for Bowtie_64:
(1, 40173), (5, 40125), (11, 40068), (25, 39945), (Start: 60 @39849 has 21 MA's), (Start: 66 @39837 has 180 MA's), (150, 39678), (154, 39669), (177, 39603), (183, 39585), (201, 39516),

Gene: Bradman_65 Start: 39794, Stop: 39429, Start Num: 72
Candidate Starts for Bradman_65:
(23, 39920), (57, 39821), (Start: 66 @39806 has 180 MA's), (Start: 72 @39794 has 12 MA's), (94, 39743), (150, 39647), (183, 39554), (201, 39485),

Gene: BrainDrainer_86 Start: 55106, Stop: 55468, Start Num: 90
Candidate Starts for BrainDrainer_86:
(55, 55040), (Start: 62 @55052 has 7 MA's), (Start: 90 @55106 has 4 MA's), (Start: 98 @55130 has 1 MA's), (112, 55151), (138, 55208), (144, 55229), (176, 55319), (183, 55346), (201, 55415),

Gene: BreSam8_67 Start: 40937, Stop: 40518, Start Num: 66
Candidate Starts for BreSam8_67:
(2, 41285), (3, 41282), (Start: 61 @40946 has 9 MA's), (Start: 66 @40937 has 180 MA's), (Start: 70 @40928 has 15 MA's), (112, 40835), (183, 40682), (201, 40613),

Gene: Brewer_72 Start: 47021, Stop: 47434, Start Num: 64
Candidate Starts for Brewer_72:
(Start: 64 @47021 has 154 MA's), (Start: 72 @47036 has 12 MA's), (138, 47183), (183, 47321),

Gene: Bricole_126 Start: 65180, Stop: 65677, Start Num: 64
Candidate Starts for Bricole_126:
(27, 65078), (Start: 42 @65138 has 1 MA's), (Start: 64 @65180 has 154 MA's), (Start: 90 @65234 has 4 MA's), (Start: 98 @65258 has 1 MA's), (143, 65369), (149, 65384), (183, 65492), (190, 65513), (201, 65561),

Gene: Bromden_87 Start: 56046, Stop: 56465, Start Num: 62
Candidate Starts for Bromden_87:
(55, 56034), (Start: 62 @56046 has 7 MA's), (Start: 90 @56103 has 4 MA's), (Start: 98 @56127 has 1 MA's), (112, 56148), (138, 56205), (144, 56226), (183, 56343), (201, 56412),

Gene: Broseidon_61 Start: 40245, Stop: 39865, Start Num: 18
Candidate Starts for Broseidon_61:
(Start: 18 @40245 has 171 MA's), (150, 40086), (154, 40077), (183, 39993), (201, 39924), (202, 39918),

Gene: Bruin_73 Start: 47095, Stop: 47508, Start Num: 64
Candidate Starts for Bruin_73:
(Start: 64 @47095 has 154 MA's), (Start: 72 @47110 has 12 MA's), (138, 47257), (183, 47395),

Gene: Bruiser_60 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Bruiser_60:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922),

Gene: BubbleTrouble_60 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for BubbleTrouble_60:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: Buck_77 Start: 48800, Stop: 49213, Start Num: 64
Candidate Starts for Buck_77:
(Start: 64 @48800 has 154 MA's), (Start: 72 @48815 has 12 MA's), (138, 48962), (183, 49100),

Gene: Buckaroo_58 Start: 40247, Stop: 39867, Start Num: 18
Candidate Starts for Buckaroo_58:
(Start: 18 @40247 has 171 MA's), (150, 40088), (154, 40079), (183, 39995), (201, 39926), (202, 39920),

Gene: Bud_62 Start: 39384, Stop: 39010, Start Num: 66
Candidate Starts for Bud_62:
(1, 39720), (5, 39672), (11, 39615), (25, 39492), (29, 39465), (Start: 60 @39396 has 21 MA's), (Start: 66 @39384 has 180 MA's), (111, 39288), (150, 39225), (154, 39216), (160, 39204), (177, 39150), (183, 39132), (201, 39063),

Gene: Budgie_82 Start: 48590, Stop: 49003, Start Num: 64
Candidate Starts for Budgie_82:
(Start: 64 @48590 has 154 MA's), (Start: 72 @48605 has 12 MA's), (148, 48782), (183, 48890), (192, 48917),

Gene: Bugatti_66 Start: 40669, Stop: 40286, Start Num: 18
Candidate Starts for Bugatti_66:
(4, 40819), (Start: 16 @40678 has 8 MA's), (Start: 18 @40669 has 171 MA's), (150, 40513), (167, 40486), (177, 40438), (183, 40420), (209, 40321), (224, 40291),

Gene: BugsBunny_76 Start: 48642, Stop: 49040, Start Num: 72
Candidate Starts for BugsBunny_76:
(Start: 64 @48627 has 154 MA's), (Start: 72 @48642 has 12 MA's), (138, 48789), (183, 48927),

Gene: Bumblebee11_58 Start: 40083, Stop: 39697, Start Num: 18
Candidate Starts for Bumblebee11_58:
(Start: 18 @40083 has 171 MA's), (150, 39924), (154, 39915), (183, 39831), (201, 39762),

Gene: Burger_59 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Burger_59:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: BuzzBuzz_63 Start: 40962, Stop: 40552, Start Num: 70
Candidate Starts for BuzzBuzz_63:
(2, 41319), (3, 41316), (6, 41277), (Start: 61 @40980 has 9 MA's), (Start: 66 @40971 has 180 MA's), (Start: 70 @40962 has 15 MA's), (112, 40869), (183, 40716), (201, 40647), (209, 40617),

Gene: BuzzLyseyear_47 Start: 33161, Stop: 32727, Start Num: 66
Candidate Starts for BuzzLyseyear_47:
(Start: 66 @33161 has 180 MA's), (74, 33149), (155, 32975), (156, 32972), (158, 32969), (174, 32927), (178, 32906), (210, 32804), (219, 32786), (231, 32735),

Gene: Bxz2_62 Start: 40978, Stop: 40559, Start Num: 66
Candidate Starts for Bxz2_62:
(2, 41326), (3, 41323), (6, 41284), (Start: 61 @40987 has 9 MA's), (Start: 66 @40978 has 180 MA's), (Start: 70 @40969 has 15 MA's), (112, 40876), (183, 40723), (201, 40654), (227, 40576),

Gene: C3_61 Start: 40889, Stop: 40512, Start Num: 66
Candidate Starts for C3_61:
(23, 41003), (Start: 66 @40889 has 180 MA's), (Start: 70 @40880 has 15 MA's), (78, 40859), (87, 40841), (94, 40826), (183, 40637), (192, 40610), (198, 40586), (201, 40568),

Gene: Cactus_79 Start: 47576, Stop: 47989, Start Num: 64
Candidate Starts for Cactus_79:
(Start: 64 @47576 has 154 MA's), (Start: 72 @47591 has 12 MA's), (138, 47738), (183, 47876),

Gene: Caelakin_60 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Caelakin_60:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922),

Gene: Caitlin_73 Start: 41063, Stop: 40671, Start Num: 53
Candidate Starts for Caitlin_73:
(Start: 53 @41063 has 2 MA's), (Start: 66 @41042 has 180 MA's), (150, 40883), (168, 40850), (182, 40793), (183, 40790), (195, 40751), (201, 40721),

Gene: Calvinny_67 Start: 40829, Stop: 40410, Start Num: 66

Candidate Starts for Calvinny_67:
(Start: 61 @40838 has 9 MA's), (Start: 66 @40829 has 180 MA's), (Start: 70 @40820 has 15 MA's), (112, 40727), (183, 40574), (201, 40505),

Gene: Camperdownii_59 Start: 39917, Stop: 39537, Start Num: 18
Candidate Starts for Camperdownii_59:
(Start: 18 @39917 has 171 MA's), (150, 39758), (154, 39749), (183, 39665), (201, 39596), (202, 39590),

Gene: Caraxes_64 Start: 39205, Stop: 38822, Start Num: 66
Candidate Starts for Caraxes_64:
(23, 39319), (57, 39220), (Start: 66 @39205 has 180 MA's), (87, 39157), (114, 39103), (150, 39040), (183, 38947), (190, 38926), (201, 38878),

Gene: Cardigan_127 Start: 73527, Stop: 73958, Start Num: 66
Candidate Starts for Cardigan_127:
(Start: 66 @73527 has 180 MA's), (85, 73572), (Start: 90 @73578 has 4 MA's), (113, 73611), (183, 73806), (184, 73809), (185, 73815), (214, 73914), (225, 73938),

Gene: Cat_59 Start: 40235, Stop: 39852, Start Num: 18
Candidate Starts for Cat_59:
(4, 40385), (Start: 16 @40244 has 8 MA's), (Start: 18 @40235 has 171 MA's), (94, 40172), (150, 40079), (183, 39986), (209, 39887), (224, 39857),

Gene: Causa_182 Start: 97632, Stop: 97144, Start Num: 61
Candidate Starts for Causa_182:
(15, 97818), (Start: 61 @97632 has 9 MA's), (Start: 92 @97563 has 1 MA's), (101, 97536), (115, 97509), (126, 97482), (140, 97455), (152, 97422), (158, 97410), (163, 97395), (164, 97392), (171, 97368), (178, 97338), (193, 97293), (213, 97215),

Gene: Caviar_63 Start: 40646, Stop: 40263, Start Num: 18
Candidate Starts for Caviar_63:
(Start: 16 @40655 has 8 MA's), (Start: 18 @40646 has 171 MA's), (112, 40550), (150, 40490), (183, 40397), (209, 40298), (211, 40295), (224, 40268),

Gene: Cece_217 Start: 133054, Stop: 133446, Start Num: 63
Candidate Starts for Cece_217:
(37, 133003), (Start: 63 @133054 has 1 MA's), (177, 133285), (183, 133303), (209, 133402), (211, 133405),

Gene: CentreCat_61 Start: 40246, Stop: 39866, Start Num: 18
Candidate Starts for CentreCat_61:
(Start: 18 @40246 has 171 MA's), (150, 40087), (154, 40078), (183, 39994), (201, 39925), (202, 39919),

Gene: Cerulean_62 Start: 40647, Stop: 40267, Start Num: 18
Candidate Starts for Cerulean_62:
(Start: 18 @40647 has 171 MA's), (150, 40488), (154, 40479), (183, 40395), (201, 40326),

Gene: ChampagnePapi_63 Start: 40646, Stop: 40266, Start Num: 18
Candidate Starts for ChampagnePapi_63:
(Start: 18 @40646 has 171 MA's), (150, 40487), (154, 40478), (183, 40394), (201, 40325),

Gene: Chaph_61 Start: 40254, Stop: 39874, Start Num: 18
Candidate Starts for Chaph_61:
(Start: 18 @40254 has 171 MA's), (150, 40095), (154, 40086), (183, 40002), (201, 39933), (202, 39927),

Gene: Chaser_85 Start: 54673, Stop: 55089, Start Num: 62
Candidate Starts for Chaser_85:
(55, 54661), (Start: 62 @54673 has 7 MA's), (Start: 98 @54751 has 1 MA's), (112, 54772), (138, 54829), (144, 54850), (176, 54940), (183, 54967), (201, 55036),

Gene: Che12_66 Start: 39418, Stop: 39041, Start Num: 66
Candidate Starts for Che12_66:
(57, 39433), (Start: 66 @39418 has 180 MA's), (Start: 70 @39409 has 15 MA's), (78, 39388), (111, 39322), (150, 39259), (183, 39166), (198, 39115), (201, 39097), (209, 39067),

Gene: Chiqui_59 Start: 40653, Stop: 40270, Start Num: 18
Candidate Starts for Chiqui_59:
(Start: 16 @40662 has 8 MA's), (Start: 18 @40653 has 171 MA's), (150, 40497), (177, 40422), (183, 40404), (190, 40383), (209, 40305),

Gene: ChosenOne_76 Start: 47576, Stop: 47989, Start Num: 64
Candidate Starts for ChosenOne_76:
(Start: 64 @47576 has 154 MA's), (Start: 72 @47591 has 12 MA's), (138, 47738), (183, 47876),

Gene: ChotaBhai_76 Start: 47900, Stop: 48313, Start Num: 64
Candidate Starts for ChotaBhai_76:
(Start: 64 @47900 has 154 MA's), (Start: 72 @47915 has 12 MA's), (148, 48092), (183, 48200), (192, 48227),

Gene: ChutneyChips_87 Start: 55057, Stop: 55419, Start Num: 90
Candidate Starts for ChutneyChips_87:
(Start: 60 @54997 has 21 MA's), (Start: 90 @55057 has 4 MA's), (Start: 98 @55081 has 1 MA's), (112, 55102), (144, 55180), (176, 55270), (183, 55297), (195, 55336), (201, 55366),

Gene: CicholasNage_82 Start: 54121, Stop: 54534, Start Num: 66
Candidate Starts for CicholasNage_82:
(Start: 66 @54121 has 180 MA's), (Start: 90 @54172 has 4 MA's), (Start: 92 @54178 has 1 MA's), (183, 54412), (190, 54433), (192, 54439), (201, 54481),

Gene: Cici_59 Start: 40098, Stop: 39712, Start Num: 18
Candidate Starts for Cici_59:
(Start: 18 @40098 has 171 MA's), (150, 39939), (154, 39930), (183, 39846), (201, 39777),

Gene: Cindaradix_56 Start: 39716, Stop: 39336, Start Num: 18
Candidate Starts for Cindaradix_56:
(Start: 18 @39716 has 171 MA's), (80, 39680), (150, 39557), (151, 39554), (154, 39548), (183, 39464), (201, 39395),

Gene: Cintron_60 Start: 40223, Stop: 39843, Start Num: 66
Candidate Starts for Cintron_60:
(Start: 66 @40223 has 180 MA's), (Start: 70 @40214 has 15 MA's), (150, 40064), (154, 40055), (183, 39971), (201, 39902),

Gene: Circum_92 Start: 52997, Stop: 53359, Start Num: 67
Candidate Starts for Circum_92:
(Start: 67 @52997 has 10 MA's), (87, 53042), (97, 53057), (183, 53231), (218, 53348),

Gene: Citius_61 Start: 40264, Stop: 39884, Start Num: 18
Candidate Starts for Citius_61:
(Start: 18 @40264 has 171 MA's), (150, 40105), (154, 40096), (183, 40012), (201, 39943), (202, 39937),

Gene: Cjw1_76 Start: 49273, Stop: 49686, Start Num: 64
Candidate Starts for Cjw1_76:
(Start: 64 @49273 has 154 MA's), (Start: 72 @49288 has 12 MA's), (138, 49435), (183, 49573),

Gene: Clammy_66 Start: 40669, Stop: 40286, Start Num: 18
Candidate Starts for Clammy_66:
(4, 40819), (Start: 16 @40678 has 8 MA's), (Start: 18 @40669 has 171 MA's), (150, 40513), (167, 40486), (177, 40438), (183, 40420), (209, 40321), (224, 40291),

Gene: Clarenza_60 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for Clarenza_60:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919), (202, 39913),

Gene: ClownCar_67 Start: 40822, Stop: 40403, Start Num: 66
Candidate Starts for ClownCar_67:
(10, 41077), (Start: 61 @40831 has 9 MA's), (Start: 66 @40822 has 180 MA's), (Start: 70 @40813 has 15 MA's), (112, 40720), (183, 40567), (201, 40498),

Gene: ClubL_119 Start: 67337, Stop: 67714, Start Num: 66
Candidate Starts for ClubL_119:
(43, 67292), (Start: 66 @67337 has 180 MA's), (93, 67397), (183, 67595), (185, 67604), (186, 67607), (190, 67616), (201, 67664),

Gene: Cocoaberry_61 Start: 40247, Stop: 39867, Start Num: 18
Candidate Starts for Cocoaberry_61:
(Start: 18 @40247 has 171 MA's), (150, 40088), (154, 40079), (183, 39995), (201, 39926),

Gene: Colbster_65 Start: 40947, Stop: 40528, Start Num: 66
Candidate Starts for Colbster_65:
(2, 41295), (3, 41292), (Start: 61 @40956 has 9 MA's), (Start: 66 @40947 has 180 MA's), (Start: 70 @40938 has 15 MA's), (112, 40845), (183, 40692), (201, 40623),

Gene: Command613_78 Start: 48615, Stop: 49028, Start Num: 64
Candidate Starts for Command613_78:
(Start: 64 @48615 has 154 MA's), (Start: 72 @48630 has 12 MA's), (138, 48777), (183, 48915),

Gene: Commander_60 Start: 40242, Stop: 39862, Start Num: 18
Candidate Starts for Commander_60:
(Start: 18 @40242 has 171 MA's), (150, 40083), (154, 40074), (183, 39990), (201, 39921), (202, 39915),

Gene: Connomayer_61 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Connomayer_61:

(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: Contagion_72 Start: 47376, Stop: 47789, Start Num: 64
Candidate Starts for Contagion_72:
(Start: 64 @47376 has 154 MA's), (Start: 72 @47391 has 12 MA's), (138, 47538), (183, 47676),

Gene: Cookies_73 Start: 47757, Stop: 48170, Start Num: 64
Candidate Starts for Cookies_73:
(Start: 64 @47757 has 154 MA's), (Start: 72 @47772 has 12 MA's), (148, 47949), (183, 48057), (192, 48084),

Gene: Cosmo_135 Start: 64335, Stop: 64769, Start Num: 67
Candidate Starts for Cosmo_135:
(Start: 67 @64335 has 10 MA's), (Start: 72 @64344 has 12 MA's), (Start: 86 @64380 has 4 MA's), (Start: 88 @64383 has 1 MA's), (115, 64446), (136, 64494), (139, 64500), (146, 64524), (178, 64623), (183, 64638), (204, 64710),

Gene: Croquant_66 Start: 40942, Stop: 40523, Start Num: 66
Candidate Starts for Croquant_66:
(2, 41290), (3, 41287), (Start: 61 @40951 has 9 MA's), (Start: 66 @40942 has 180 MA's), (Start: 70 @40933 has 15 MA's), (112, 40840), (183, 40687), (201, 40618),

Gene: CrystalP_75 Start: 48560, Stop: 48973, Start Num: 64
Candidate Starts for CrystalP_75:
(Start: 64 @48560 has 154 MA's), (Start: 72 @48575 has 12 MA's), (138, 48722), (183, 48860),

Gene: Cucurbita_119 Start: 68902, Stop: 69279, Start Num: 66
Candidate Starts for Cucurbita_119:
(43, 68857), (Start: 66 @68902 has 180 MA's), (93, 68962), (183, 69160), (185, 69169), (186, 69172), (190, 69181), (201, 69229), (209, 69259),

Gene: Cuke_98 Start: 56091, Stop: 56588, Start Num: 41
Candidate Starts for Cuke_98:
(Start: 41 @56091 has 1 MA's), (Start: 60 @56127 has 21 MA's), (Start: 66 @56139 has 180 MA's), (91, 56202), (116, 56259), (165, 56370), (172, 56400), (176, 56415), (178, 56427), (183, 56442), (184, 56445), (211, 56565),

Gene: Cullens_67 Start: 40943, Stop: 40524, Start Num: 66
Candidate Starts for Cullens_67:
(2, 41291), (3, 41288), (Start: 61 @40952 has 9 MA's), (Start: 66 @40943 has 180 MA's), (Start: 70 @40934 has 15 MA's), (112, 40841), (183, 40688), (201, 40619),

Gene: Culver_119 Start: 67097, Stop: 67474, Start Num: 66
Candidate Starts for Culver_119:
(43, 67052), (Start: 66 @67097 has 180 MA's), (93, 67157), (183, 67355), (185, 67364), (186, 67367), (190, 67376), (201, 67424), (209, 67454),

Gene: Czyszczon1_77 Start: 48082, Stop: 48495, Start Num: 64
Candidate Starts for Czyszczon1_77:
(Start: 64 @48082 has 154 MA's), (Start: 72 @48097 has 12 MA's), (138, 48244), (183, 48382),

Gene: D29_61 Start: 40913, Stop: 40536, Start Num: 66

Candidate Starts for D29_61:
(23, 41027), (57, 40928), (Start: 66 @40913 has 180 MA's), (Start: 90 @40862 has 4 MA's), (112, 40814), (114, 40811), (150, 40754), (183, 40661), (184, 40658), (201, 40592),

Gene: D32_65 Start: 40913, Stop: 40536, Start Num: 66
Candidate Starts for D32_65:
(23, 41027), (57, 40928), (Start: 66 @40913 has 180 MA's), (Start: 90 @40862 has 4 MA's), (112, 40814), (114, 40811), (150, 40754), (183, 40661), (184, 40658), (201, 40592),

Gene: DBQu4n_66 Start: 40894, Stop: 40517, Start Num: 66
Candidate Starts for DBQu4n_66:
(23, 41008), (57, 40909), (Start: 66 @40894 has 180 MA's), (Start: 90 @40843 has 4 MA's), (112, 40795), (114, 40792), (150, 40735), (183, 40642), (184, 40639), (201, 40573),

Gene: DaHudson_66 Start: 40936, Stop: 40517, Start Num: 66
Candidate Starts for DaHudson_66:
(2, 41284), (3, 41281), (Start: 61 @40945 has 9 MA's), (Start: 66 @40936 has 180 MA's), (Start: 70 @40927 has 15 MA's), (112, 40834), (183, 40681), (201, 40612),

Gene: DaddyRickover_41 Start: 31755, Stop: 31321, Start Num: 66
Candidate Starts for DaddyRickover_41:
(Start: 66 @31755 has 180 MA's), (74, 31743), (156, 31566), (158, 31563), (174, 31521), (178, 31500), (210, 31398), (219, 31380), (231, 31329),

Gene: Daikon_78 Start: 48703, Stop: 49116, Start Num: 64
Candidate Starts for Daikon_78:
(Start: 64 @48703 has 154 MA's), (Start: 72 @48718 has 12 MA's), (138, 48865), (183, 49003),

Gene: Daishi_66 Start: 39812, Stop: 39393, Start Num: 66
Candidate Starts for Daishi_66:
(2, 40160), (3, 40157), (Start: 61 @39821 has 9 MA's), (Start: 66 @39812 has 180 MA's), (Start: 70 @39803 has 15 MA's), (112, 39710), (183, 39557), (201, 39488),

Gene: Danforth_74 Start: 41388, Stop: 41017, Start Num: 66
Candidate Starts for Danforth_74:
(Start: 53 @41409 has 2 MA's), (Start: 66 @41388 has 180 MA's), (150, 41229), (168, 41196), (182, 41139), (183, 41136), (195, 41097), (201, 41067),

Gene: Daredevil_46 Start: 39668, Stop: 40063, Start Num: 75
Candidate Starts for Daredevil_46:
(Start: 75 @39668 has 2 MA's), (169, 39860), (183, 39917), (184, 39920), (190, 39938),

Gene: Datway_59 Start: 40069, Stop: 39683, Start Num: 18
Candidate Starts for Datway_59:
(Start: 18 @40069 has 171 MA's), (150, 39910), (154, 39901), (183, 39817), (201, 39748),

Gene: Deano_59 Start: 40251, Stop: 39871, Start Num: 18
Candidate Starts for Deano_59:
(Start: 18 @40251 has 171 MA's), (150, 40092), (154, 40083), (183, 39999), (201, 39930), (202, 39924),

Gene: Demsculpinboyz_49 Start: 31194, Stop: 30760, Start Num: 66
Candidate Starts for Demsculpinboyz_49:

(Start: 66 @31194 has 180 MA's), (74, 31182), (156, 31005), (158, 31002), (174, 30960), (178, 30939), (210, 30837), (219, 30819), (231, 30768),

Gene: Dhanush_61 Start: 40246, Stop: 39866, Start Num: 18
Candidate Starts for Dhanush_61:
(Start: 18 @40246 has 171 MA's), (150, 40087), (154, 40078), (183, 39994), (201, 39925), (202, 39919),

Gene: Dieselweasel_68 Start: 40946, Stop: 40527, Start Num: 66
Candidate Starts for Dieselweasel_68:
(2, 41294), (3, 41291), (Start: 61 @40955 has 9 MA's), (Start: 66 @40946 has 180 MA's), (Start: 70 @40937 has 15 MA's), (112, 40844), (183, 40691), (201, 40622),

Gene: Diminimus_125 Start: 65027, Stop: 65524, Start Num: 64
Candidate Starts for Diminimus_125:
(27, 64925), (Start: 42 @64985 has 1 MA's), (Start: 64 @65027 has 154 MA's), (Start: 70 @65039 has 15 MA's), (Start: 90 @65081 has 4 MA's), (Start: 98 @65105 has 1 MA's), (143, 65216), (149, 65231), (183, 65339), (190, 65360), (201, 65408),

Gene: DirkDirk_82 Start: 53621, Stop: 54040, Start Num: 66
Candidate Starts for DirkDirk_82:
(Start: 66 @53621 has 180 MA's), (138, 53774), (183, 53912), (190, 53933), (192, 53939), (201, 53981),

Gene: DirtyDunning_60 Start: 40258, Stop: 39878, Start Num: 18
Candidate Starts for DirtyDunning_60:
(Start: 18 @40258 has 171 MA's), (150, 40099), (154, 40090), (183, 40006), (201, 39937),

Gene: Dixon_73 Start: 40908, Stop: 40537, Start Num: 66
Candidate Starts for Dixon_73:
(Start: 53 @40929 has 2 MA's), (Start: 66 @40908 has 180 MA's), (150, 40749), (168, 40716), (182, 40659), (183, 40656), (195, 40617), (201, 40587),

Gene: DoctorDiddles_75 Start: 47944, Stop: 48357, Start Num: 64
Candidate Starts for DoctorDiddles_75:
(Start: 64 @47944 has 154 MA's), (Start: 72 @47959 has 12 MA's), (148, 48136), (183, 48244), (192, 48271),

Gene: Dodo_243 Start: 138309, Stop: 138695, Start Num: 66
Candidate Starts for Dodo_243:
(Start: 66 @138309 has 180 MA's), (Start: 102 @138396 has 1 MA's), (147, 138480), (177, 138540), (183, 138558), (190, 138579), (220, 138678),

Gene: Dorin_220 Start: 115745, Stop: 116227, Start Num: 36
Candidate Starts for Dorin_220:
(Start: 36 @115745 has 3 MA's), (38, 115751), (49, 115775), (65, 115802), (109, 115913), (128, 115949), (146, 115994), (180, 116099), (183, 116108), (191, 116132),

Gene: Douge_87 Start: 54998, Stop: 55414, Start Num: 62
Candidate Starts for Douge_87:
(55, 54986), (Start: 62 @54998 has 7 MA's), (Start: 90 @55052 has 4 MA's), (Start: 98 @55076 has 1 MA's), (112, 55097), (138, 55154), (144, 55175), (176, 55265), (183, 55292), (195, 55331), (201, 55361),

Gene: Douzhi_85 Start: 54789, Stop: 55127, Start Num: 98
Candidate Starts for Douzhi_85:
(Start: 58 @54702 has 1 MA's), (Start: 62 @54711 has 7 MA's), (Start: 98 @54789 has 1 MA's), (112, 54810), (138, 54867), (144, 54888), (176, 54978), (183, 55005), (195, 55044), (201, 55074),

Gene: DrDrey_76 Start: 49001, Stop: 49414, Start Num: 64
Candidate Starts for DrDrey_76:
(Start: 64 @49001 has 154 MA's), (Start: 72 @49016 has 12 MA's), (138, 49163), (183, 49301),

Gene: DroogsArmy_58 Start: 42717, Stop: 42268, Start Num: 66
Candidate Starts for DroogsArmy_58:
(Start: 66 @42717 has 180 MA's), (74, 42702), (94, 42654), (150, 42558), (160, 42537), (161, 42534), (183, 42465), (184, 42462), (195, 42426), (201, 42396), (223, 42339), (233, 42285),

Gene: DropBear_64 Start: 40571, Stop: 40188, Start Num: 18
Candidate Starts for DropBear_64:
(4, 40721), (Start: 16 @40580 has 8 MA's), (Start: 18 @40571 has 171 MA's), (150, 40415), (177, 40340), (183, 40322), (209, 40223),

Gene: Druantia_60 Start: 40246, Stop: 39866, Start Num: 18
Candidate Starts for Druantia_60:
(Start: 18 @40246 has 171 MA's), (150, 40087), (154, 40078), (183, 39994), (201, 39925), (202, 39919),

Gene: Dulcita_125 Start: 65028, Stop: 65525, Start Num: 64
Candidate Starts for Dulcita_125:
(27, 64926), (Start: 42 @64986 has 1 MA's), (Start: 64 @65028 has 154 MA's), (Start: 70 @65040 has 15 MA's), (Start: 90 @65082 has 4 MA's), (Start: 98 @65106 has 1 MA's), (143, 65217), (149, 65232), (183, 65340), (190, 65361), (201, 65409),

Gene: Dumbo_76 Start: 47481, Stop: 47894, Start Num: 64
Candidate Starts for Dumbo_76:
(Start: 64 @47481 has 154 MA's), (Start: 72 @47496 has 12 MA's), (138, 47643), (183, 47781),

Gene: Duplo_66 Start: 40950, Stop: 40573, Start Num: 66
Candidate Starts for Duplo_66:
(23, 41064), (Start: 66 @40950 has 180 MA's), (Start: 90 @40899 has 4 MA's), (112, 40851), (114, 40848), (150, 40791), (183, 40698), (184, 40695), (201, 40629),

Gene: Dusk_73 Start: 47781, Stop: 48194, Start Num: 64
Candidate Starts for Dusk_73:
(Start: 64 @47781 has 154 MA's), (Start: 72 @47796 has 12 MA's), (138, 47943), (183, 48081),

Gene: Dusty_116 Start: 67309, Stop: 67686, Start Num: 66
Candidate Starts for Dusty_116:
(43, 67264), (Start: 66 @67309 has 180 MA's), (93, 67369), (183, 67567), (185, 67576), (186, 67579), (190, 67588), (201, 67636),

Gene: DyoEdafos_89 Start: 55386, Stop: 55802, Start Num: 62
Candidate Starts for DyoEdafos_89:
(Start: 62 @55386 has 7 MA's), (Start: 98 @55464 has 1 MA's), (105, 55473), (112, 55485), (144, 55563), (183, 55680), (201, 55749),

Gene: Eagle_60 Start: 40268, Stop: 39888, Start Num: 18
Candidate Starts for Eagle_60:
(Start: 16 @40277 has 8 MA's), (Start: 18 @40268 has 171 MA's), (150, 40109), (151, 40106), (154, 40100), (183, 40016), (201, 39947),

Gene: Eapen_61 Start: 40238, Stop: 39858, Start Num: 18
Candidate Starts for Eapen_61:
(Start: 18 @40238 has 171 MA's), (150, 40079), (154, 40070), (183, 39986), (201, 39917), (202, 39911),

Gene: Easy2Say_77 Start: 49025, Stop: 49438, Start Num: 64
Candidate Starts for Easy2Say_77:
(Start: 64 @49025 has 154 MA's), (Start: 72 @49040 has 12 MA's), (138, 49187), (183, 49325),

Gene: Ebony_63 Start: 39413, Stop: 39027, Start Num: 60
Candidate Starts for Ebony_63:
(1, 39737), (5, 39689), (11, 39632), (22, 39527), (25, 39509), (29, 39482), (Start: 60 @39413 has 21 MA's), (Start: 66 @39401 has 180 MA's), (111, 39305), (150, 39242), (153, 39236), (154, 39233), (160, 39221), (177, 39167), (183, 39149), (201, 39080),

Gene: EhyElimayoE_114 Start: 75438, Stop: 74971, Start Num: 72
Candidate Starts for EhyElimayoE_114:
(50, 75474), (Start: 72 @75438 has 12 MA's), (81, 75411), (97, 75372), (112, 75336), (136, 75288), (182, 75144), (183, 75141), (212, 75033), (229, 74982),

Gene: Elite2014_75 Start: 47575, Stop: 47988, Start Num: 64
Candidate Starts for Elite2014_75:
(Start: 64 @47575 has 154 MA's), (Start: 72 @47590 has 12 MA's), (138, 47737), (183, 47875),

Gene: Elph10_76 Start: 47580, Stop: 47993, Start Num: 64
Candidate Starts for Elph10_76:
(Start: 64 @47580 has 154 MA's), (Start: 72 @47595 has 12 MA's), (138, 47742), (183, 47880),

Gene: Elver_242 Start: 108033, Stop: 108416, Start Num: 64
Candidate Starts for Elver_242:
(Start: 64 @108033 has 154 MA's), (Start: 92 @108093 has 1 MA's), (114, 108141), (183, 108294), (200, 108357),

Gene: Emmina_76 Start: 47482, Stop: 47895, Start Num: 64
Candidate Starts for Emmina_76:
(Start: 64 @47482 has 154 MA's), (Start: 72 @47497 has 12 MA's), (138, 47644), (183, 47782),

Gene: Engineer_119 Start: 68380, Stop: 68757, Start Num: 66
Candidate Starts for Engineer_119:
(43, 68335), (Start: 66 @68380 has 180 MA's), (93, 68440), (183, 68638), (185, 68647), (186, 68650), (190, 68659), (201, 68707),

Gene: EniyanLRS_127 Start: 63903, Stop: 64340, Start Num: 67
Candidate Starts for EniyanLRS_127:
(Start: 62 @63894 has 7 MA's), (Start: 67 @63903 has 10 MA's), (Start: 72 @63912 has 12 MA's), (Start: 86 @63948 has 4 MA's), (Start: 88 @63951 has 1 MA's), (115, 64014), (136, 64062), (139, 64068), (146, 64092), (178, 64191), (183, 64206), (204, 64278),

Gene: EpicPhail_68 Start: 40947, Stop: 40528, Start Num: 66
Candidate Starts for EpicPhail_68:
(2, 41295), (3, 41292), (Start: 61 @40956 has 9 MA's), (Start: 66 @40947 has 180 MA's), (Start: 70 @40938 has 15 MA's), (112, 40845), (183, 40692), (201, 40623),

Gene: Erasmago_237 Start: 132936, Stop: 133331, Start Num: 66
Candidate Starts for Erasmago_237:
(46, 132909), (52, 132918), (Start: 66 @132936 has 180 MA's), (141, 133083), (183, 133188), (209, 133287),

Gene: Eris_60 Start: 40258, Stop: 39878, Start Num: 18
Candidate Starts for Eris_60:
(Start: 18 @40258 has 171 MA's), (150, 40099), (154, 40090), (183, 40006), (201, 39937),

Gene: Eros_61 Start: 40245, Stop: 39865, Start Num: 18
Candidate Starts for Eros_61:
(Start: 18 @40245 has 171 MA's), (150, 40086), (154, 40077), (183, 39993), (201, 39924), (202, 39918),

Gene: Estes_140 Start: 66866, Stop: 67351, Start Num: 64
Candidate Starts for Estes_140:
(Start: 60 @66857 has 21 MA's), (Start: 64 @66866 has 154 MA's), (121, 66980), (129, 67001), (143, 67043), (183, 67166), (190, 67187), (201, 67235), (209, 67265),

Gene: Et2Brutus_62 Start: 39364, Stop: 38990, Start Num: 66
Candidate Starts for Et2Brutus_62:
(1, 39700), (5, 39652), (11, 39595), (25, 39472), (29, 39445), (Start: 60 @39376 has 21 MA's), (Start: 66 @39364 has 180 MA's), (111, 39268), (150, 39205), (154, 39196), (160, 39184), (177, 39130), (183, 39112), (201, 39043),

Gene: EtoileNova_62 Start: 40650, Stop: 40267, Start Num: 18
Candidate Starts for EtoileNova_62:
(Start: 16 @40659 has 8 MA's), (Start: 18 @40650 has 171 MA's), (112, 40554), (150, 40494), (183, 40401), (209, 40302), (211, 40299), (224, 40272),

Gene: Eureka_74 Start: 48046, Stop: 48459, Start Num: 64
Candidate Starts for Eureka_74:
(Start: 64 @48046 has 154 MA's), (Start: 72 @48061 has 12 MA's), (138, 48208), (183, 48346),

Gene: Eurydice_62 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Eurydice_62:
(Start: 16 @40252 has 8 MA's), (Start: 18 @40243 has 171 MA's), (150, 40084), (151, 40081), (154, 40075), (183, 39991), (201, 39922),

Gene: Expelliarmus_71 Start: 41112, Stop: 40741, Start Num: 66
Candidate Starts for Expelliarmus_71:
(Start: 53 @41133 has 2 MA's), (Start: 66 @41112 has 180 MA's), (150, 40953), (168, 40920), (182, 40863), (183, 40860), (195, 40821), (201, 40791),

Gene: FairyPath_77 Start: 48694, Stop: 49107, Start Num: 64
Candidate Starts for FairyPath_77:

(Start: 64 @48694 has 154 MA's), (Start: 72 @48709 has 12 MA's), (148, 48886), (183, 48994), (192, 49021),

Gene: Farber_67 Start: 40942, Stop: 40514, Start Num: 61
Candidate Starts for Farber_67:
(2, 41281), (3, 41278), (6, 41239), (Start: 61 @40942 has 9 MA's), (Start: 66 @40933 has 180 MA's), (Start: 70 @40924 has 15 MA's), (112, 40831), (183, 40678), (201, 40609), (227, 40531),

Gene: Farewell_78 Start: 51653, Stop: 52063, Start Num: 61
Candidate Starts for Farewell_78:
(Start: 61 @51653 has 9 MA's), (Start: 66 @51662 has 180 MA's), (122, 51782), (158, 51854), (174, 51881), (189, 51935), (216, 52016), (219, 52022),

Gene: FarmResident_86 Start: 54528, Stop: 54866, Start Num: 98
Candidate Starts for FarmResident_86:
(55, 54438), (Start: 58 @54441 has 1 MA's), (Start: 62 @54450 has 7 MA's), (Start: 98 @54528 has 1 MA's), (112, 54549), (138, 54606), (144, 54627), (176, 54717), (183, 54744), (195, 54783), (201, 54813),

Gene: Fastidio_45 Start: 32251, Stop: 31817, Start Num: 66
Candidate Starts for Fastidio_45:
(Start: 66 @32251 has 180 MA's), (74, 32239), (156, 32062), (158, 32059), (174, 32017), (178, 31996), (210, 31894), (219, 31876), (231, 31825),

Gene: FatCactus_66 Start: 40805, Stop: 40473, Start Num: 90
Candidate Starts for FatCactus_66:
(19, 41027), (44, 40895), (Start: 61 @40865 has 9 MA's), (Start: 90 @40805 has 4 MA's), (110, 40763), (183, 40607), (190, 40586), (201, 40538),

Gene: Fernando_67 Start: 40943, Stop: 40524, Start Num: 66
Candidate Starts for Fernando_67:
(2, 41291), (3, 41288), (Start: 61 @40952 has 9 MA's), (Start: 66 @40943 has 180 MA's), (Start: 70 @40934 has 15 MA's), (112, 40841), (183, 40688), (201, 40619),

Gene: Fibonacci_63 Start: 39370, Stop: 38996, Start Num: 66
Candidate Starts for Fibonacci_63:
(1, 39706), (5, 39658), (11, 39601), (25, 39478), (29, 39451), (Start: 60 @39382 has 21 MA's), (Start: 66 @39370 has 180 MA's), (111, 39274), (150, 39211), (154, 39202), (160, 39190), (177, 39136), (183, 39118), (201, 39049),

Gene: Filch_77 Start: 47507, Stop: 47920, Start Num: 64
Candidate Starts for Filch_77:
(Start: 64 @47507 has 154 MA's), (Start: 72 @47522 has 12 MA's), (138, 47669), (183, 47807),

Gene: Finemlucis_87 Start: 56813, Stop: 57238, Start Num: 58
Candidate Starts for Finemlucis_87:
(Start: 58 @56813 has 1 MA's), (Start: 62 @56822 has 7 MA's), (94, 56888), (Start: 98 @56900 has 1 MA's), (112, 56921), (138, 56978), (144, 56999), (176, 57089), (183, 57116), (201, 57185),

Gene: FireRed_80 Start: 49069, Stop: 49482, Start Num: 64
Candidate Starts for FireRed_80:
(Start: 64 @49069 has 154 MA's), (Start: 72 @49084 has 12 MA's), (138, 49231), (183, 49369),

Gene: Flaverint_64 Start: 39828, Stop: 39454, Start Num: 66
Candidate Starts for Flaverint_64:
(1, 40164), (5, 40116), (11, 40059), (25, 39936), (Start: 60 @39840 has 21 MA's), (Start: 66 @39828 has 180 MA's), (150, 39669), (154, 39660), (177, 39594), (183, 39576), (201, 39507),

Gene: Florean_61 Start: 40242, Stop: 39862, Start Num: 18
Candidate Starts for Florean_61:
(Start: 18 @40242 has 171 MA's), (150, 40083), (154, 40074), (183, 39990), (201, 39921), (202, 39915),

Gene: Flux_61 Start: 40242, Stop: 39862, Start Num: 18
Candidate Starts for Flux_61:
(Start: 18 @40242 has 171 MA's), (150, 40083), (154, 40074), (183, 39990), (201, 39921), (202, 39915),

Gene: FlyCatcher_65 Start: 43633, Stop: 43184, Start Num: 66
Candidate Starts for FlyCatcher_65:
(12, 43837), (Start: 66 @43633 has 180 MA's), (94, 43570), (150, 43474), (154, 43465), (183, 43381), (195, 43342), (201, 43312), (233, 43201),

Gene: Flypotenuse_72 Start: 47566, Stop: 47979, Start Num: 64
Candidate Starts for Flypotenuse_72:
(Start: 64 @47566 has 154 MA's), (Start: 72 @47581 has 12 MA's), (138, 47728), (183, 47866),

Gene: FoghornLeghorn_70 Start: 46594, Stop: 46992, Start Num: 72
Candidate Starts for FoghornLeghorn_70:
(Start: 64 @46579 has 154 MA's), (Start: 72 @46594 has 12 MA's), (138, 46741), (183, 46879),

Gene: Forza_171 Start: 97184, Stop: 96825, Start Num: 99
Candidate Starts for Forza_171:
(Start: 99 @97184 has 5 MA's), (Start: 102 @97175 has 1 MA's), (105, 97172), (120, 97142), (128, 97121), (146, 97067), (183, 96950), (185, 96941), (190, 96929), (195, 96911),

Gene: Francesca_221 Start: 116394, Stop: 116876, Start Num: 36
Candidate Starts for Francesca_221:
(Start: 36 @116394 has 3 MA's), (38, 116400), (49, 116424), (65, 116451), (109, 116562), (128, 116598), (146, 116643), (180, 116748), (183, 116757), (191, 116781),

Gene: Frankenweenie_123 Start: 80415, Stop: 79951, Start Num: 72
Candidate Starts for Frankenweenie_123:
(Start: 72 @80415 has 12 MA's), (83, 80382), (97, 80352), (123, 80295), (136, 80268), (183, 80121), (187, 80106), (192, 80094), (212, 80013), (229, 79962),

Gene: FreakyGoo_125 Start: 65512, Stop: 66009, Start Num: 64
Candidate Starts for FreakyGoo_125:
(27, 65410), (Start: 42 @65470 has 1 MA's), (Start: 64 @65512 has 154 MA's), (Start: 90 @65566 has 4 MA's), (Start: 98 @65590 has 1 MA's), (143, 65701), (149, 65716), (183, 65824), (190, 65845), (201, 65893),

Gene: Fred313_62 Start: 40274, Stop: 39882, Start Num: 16
Candidate Starts for Fred313_62:
(4, 40415), (Start: 16 @40274 has 8 MA's), (Start: 18 @40265 has 171 MA's), (150, 40109), (177, 40034), (183, 40016), (209, 39917),

Gene: Fudan_169 Start: 88216, Stop: 88614, Start Num: 66
Candidate Starts for Fudan_169:
(Start: 66 @88216 has 180 MA's), (Start: 72 @88228 has 12 MA's), (112, 88312), (116, 88318), (127, 88342), (183, 88483), (191, 88507), (203, 88552), (207, 88564), (221, 88597),

Gene: Funston_60 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Funston_60:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922),

Gene: GMA3_55 Start: 48480, Stop: 48010, Start Num: 81
Candidate Starts for GMA3_55:
(81, 48480), (106, 48420), (183, 48225), (201, 48156), (204, 48144), (205, 48138), (226, 48081),

Gene: Gadost_61 Start: 40247, Stop: 39867, Start Num: 18
Candidate Starts for Gadost_61:
(Start: 18 @40247 has 171 MA's), (150, 40088), (154, 40079), (183, 39995), (201, 39926),

Gene: Gage_78 Start: 48359, Stop: 48772, Start Num: 64
Candidate Starts for Gage_78:
(Start: 64 @48359 has 154 MA's), (Start: 72 @48374 has 12 MA's), (138, 48521), (183, 48659),

Gene: Gandionco_246 Start: 108817, Stop: 109200, Start Num: 64
Candidate Starts for Gandionco_246:
(Start: 64 @108817 has 154 MA's), (100, 108895), (114, 108925), (116, 108928), (183, 109078), (199, 109138),

Gene: GardenSalsa_140 Start: 66997, Stop: 67482, Start Num: 64
Candidate Starts for GardenSalsa_140:
(Start: 60 @66988 has 21 MA's), (Start: 64 @66997 has 154 MA's), (121, 67111), (183, 67297), (190, 67318), (192, 67324), (201, 67366), (209, 67396),

Gene: Garnacho_161 Start: 87772, Stop: 88170, Start Num: 67
Candidate Starts for Garnacho_161:
(Start: 67 @87772 has 10 MA's), (119, 87877), (183, 88039), (191, 88063), (196, 88078), (203, 88108), (207, 88120), (221, 88153),

Gene: Gator_74 Start: 48412, Stop: 48825, Start Num: 64
Candidate Starts for Gator_74:
(Start: 64 @48412 has 154 MA's), (Start: 72 @48427 has 12 MA's), (138, 48574), (183, 48712),

Gene: Gattaca_71 Start: 40699, Stop: 41190, Start Num: 60
Candidate Starts for Gattaca_71:
(Start: 60 @40699 has 21 MA's), (132, 40846), (183, 41002), (184, 41005), (195, 41041), (201, 41071), (211, 41104),

Gene: Geeche_117 Start: 67532, Stop: 67909, Start Num: 66
Candidate Starts for Geeche_117:
(43, 67487), (Start: 66 @67532 has 180 MA's), (93, 67592), (183, 67790), (185, 67799), (186, 67802), (190, 67811), (201, 67859),

Gene: Gemini_81 Start: 48876, Stop: 49289, Start Num: 64
Candidate Starts for Gemini_81:

(Start: 64 @48876 has 154 MA's), (Start: 72 @48891 has 12 MA's), (138, 49038), (183, 49176),

Gene: Gemma_66 Start: 40825, Stop: 40406, Start Num: 66
Candidate Starts for Gemma_66:
(10, 41080), (Start: 61 @40834 has 9 MA's), (Start: 66 @40825 has 180 MA's), (Start: 70 @40816 has 15 MA's), (112, 40723), (183, 40570), (201, 40501),

Gene: GenevaB15_142 Start: 66655, Stop: 67140, Start Num: 64
Candidate Starts for GenevaB15_142:
(Start: 60 @66646 has 21 MA's), (Start: 64 @66655 has 154 MA's), (121, 66769), (138, 66814), (143, 66832), (183, 66955), (190, 66976), (201, 67024),

Gene: GiJojo_160 Start: 88793, Stop: 89200, Start Num: 66
Candidate Starts for GiJojo_160:
(Start: 66 @88793 has 180 MA's), (81, 88832), (108, 88889), (178, 89054), (183, 89069), (191, 89093), (196, 89108), (203, 89138), (207, 89150), (217, 89174), (220, 89180),

Gene: Gilberta_64 Start: 39821, Stop: 39447, Start Num: 66
Candidate Starts for Gilberta_64:
(1, 40157), (5, 40109), (11, 40052), (25, 39929), (Start: 60 @39833 has 21 MA's), (Start: 66 @39821 has 180 MA's), (150, 39662), (154, 39653), (177, 39587), (183, 39569), (201, 39500),

Gene: GingkoMaracino_67 Start: 40820, Stop: 40410, Start Num: 70
Candidate Starts for GingkoMaracino_67:
(2, 41177), (3, 41174), (6, 41135), (7, 41126), (Start: 61 @40838 has 9 MA's), (Start: 66 @40829 has 180 MA's), (Start: 70 @40820 has 15 MA's), (112, 40727), (183, 40574), (201, 40505),

Gene: Giroux_66 Start: 40668, Stop: 40285, Start Num: 18
Candidate Starts for Giroux_66:
(4, 40818), (Start: 16 @40677 has 8 MA's), (Start: 18 @40668 has 171 MA's), (150, 40512), (167, 40485), (177, 40437), (183, 40419), (209, 40320), (224, 40290),

Gene: Glaske16_127 Start: 66146, Stop: 66643, Start Num: 64
Candidate Starts for Glaske16_127:
(27, 66044), (Start: 42 @66104 has 1 MA's), (Start: 64 @66146 has 154 MA's), (Start: 70 @66158 has 15 MA's), (Start: 90 @66200 has 4 MA's), (Start: 98 @66224 has 1 MA's), (143, 66335), (149, 66350), (183, 66458), (190, 66479), (201, 66527),

Gene: Glexan_75 Start: 48696, Stop: 49109, Start Num: 64
Candidate Starts for Glexan_75:
(Start: 64 @48696 has 154 MA's), (Start: 72 @48711 has 12 MA's), (138, 48858), (183, 48996),

Gene: GoCrazy_87 Start: 51181, Stop: 51546, Start Num: 67
Candidate Starts for GoCrazy_87:
(Start: 67 @51181 has 10 MA's), (183, 51418), (190, 51439), (218, 51535),

Gene: Goku_74 Start: 47775, Stop: 48188, Start Num: 64
Candidate Starts for Goku_74:
(Start: 64 @47775 has 154 MA's), (Start: 72 @47790 has 12 MA's), (138, 47937), (183, 48075),

Gene: GoldenSpark_80 Start: 48359, Stop: 48772, Start Num: 64
Candidate Starts for GoldenSpark_80:
(Start: 64 @48359 has 154 MA's), (Start: 72 @48374 has 12 MA's), (138, 48521), (183, 48659),

Gene: Goldilocks_79 Start: 47857, Stop: 48270, Start Num: 64
Candidate Starts for Goldilocks_79:
(Start: 64 @47857 has 154 MA's), (Start: 72 @47872 has 12 MA's), (138, 48019), (183, 48157),

Gene: GooberAzure_79 Start: 48359, Stop: 48772, Start Num: 64
Candidate Starts for GooberAzure_79:
(Start: 64 @48359 has 154 MA's), (Start: 72 @48374 has 12 MA's), (138, 48521), (183, 48659),

Gene: GoongGoong_73 Start: 40498, Stop: 40989, Start Num: 60
Candidate Starts for GoongGoong_73:
(Start: 60 @40498 has 21 MA's), (132, 40645), (183, 40801), (184, 40804), (195, 40840), (201, 40870), (211, 40903),

Gene: Goose1D_56 Start: 36752, Stop: 36369, Start Num: 18
Candidate Starts for Goose1D_56:
(4, 36902), (Start: 16 @36761 has 8 MA's), (Start: 18 @36752 has 171 MA's), (150, 36596), (177, 36521), (183, 36503), (209, 36404),

Gene: Goose1X_62 Start: 39894, Stop: 39511, Start Num: 18
Candidate Starts for Goose1X_62:
(4, 40044), (Start: 16 @39903 has 8 MA's), (Start: 18 @39894 has 171 MA's), (150, 39738), (177, 39663), (183, 39645), (209, 39546),

Gene: Grayson_55 Start: 20751, Stop: 20332, Start Num: 79
Candidate Starts for Grayson_55:
(Start: 79 @20751 has 4 MA's), (109, 20676), (152, 20586), (183, 20481), (202, 20406),

Gene: Grayson_56 Start: 21137, Stop: 20748, Start Num: 79
Candidate Starts for Grayson_56:
(76, 21146), (Start: 79 @21137 has 4 MA's), (146, 20984), (183, 20867), (190, 20846),

Gene: Greep_80 Start: 49358, Stop: 49771, Start Num: 64
Candidate Starts for Greep_80:
(Start: 64 @49358 has 154 MA's), (Start: 72 @49373 has 12 MA's), (138, 49520), (183, 49658),

Gene: Grif_67 Start: 41018, Stop: 40599, Start Num: 66
Candidate Starts for Grif_67:
(2, 41366), (3, 41363), (Start: 61 @41027 has 9 MA's), (Start: 66 @41018 has 180 MA's), (Start: 70 @41009 has 15 MA's), (112, 40916), (183, 40763), (201, 40694),

Gene: Groundhog_73 Start: 41318, Stop: 40947, Start Num: 66
Candidate Starts for Groundhog_73:
(Start: 53 @41339 has 2 MA's), (Start: 66 @41318 has 180 MA's), (150, 41159), (168, 41126), (182, 41069), (183, 41066), (195, 41027), (201, 40997),

Gene: Groupthink_68 Start: 40829, Stop: 40410, Start Num: 66
Candidate Starts for Groupthink_68:
(Start: 61 @40838 has 9 MA's), (Start: 66 @40829 has 180 MA's), (Start: 70 @40820 has 15 MA's), (112, 40727), (183, 40574), (201, 40505),

Gene: Grub_67 Start: 40935, Stop: 40516, Start Num: 66
Candidate Starts for Grub_67:

(2, 41283), (3, 41280), (Start: 61 @40944 has 9 MA's), (Start: 66 @40935 has 180 MA's), (Start: 70 @40926 has 15 MA's), (112, 40833), (183, 40680), (201, 40611),

Gene: Grum1_66 Start: 40943, Stop: 40524, Start Num: 66
Candidate Starts for Grum1_66:
(2, 41291), (3, 41288), (Start: 61 @40952 has 9 MA's), (Start: 66 @40943 has 180 MA's), (Start: 70 @40934 has 15 MA's), (112, 40841), (183, 40688), (201, 40619),

Gene: GtownJaz_67 Start: 40945, Stop: 40526, Start Num: 66
Candidate Starts for GtownJaz_67:
(2, 41293), (3, 41290), (Start: 61 @40954 has 9 MA's), (Start: 66 @40945 has 180 MA's), (Start: 70 @40936 has 15 MA's), (112, 40843), (183, 40690), (201, 40621),

Gene: Gwennie_67 Start: 40947, Stop: 40528, Start Num: 66
Candidate Starts for Gwennie_67:
(2, 41295), (3, 41292), (Start: 61 @40956 has 9 MA's), (Start: 66 @40947 has 180 MA's), (Start: 70 @40938 has 15 MA's), (112, 40845), (183, 40692), (201, 40623),

Gene: HINdeR_58 Start: 42418, Stop: 41969, Start Num: 66
Candidate Starts for HINdeR_58:
(Start: 66 @42418 has 180 MA's), (94, 42355), (150, 42259), (154, 42250), (183, 42166), (201, 42097), (233, 41986),

Gene: HamSlice_58 Start: 40241, Stop: 39861, Start Num: 18
Candidate Starts for HamSlice_58:
(Start: 18 @40241 has 171 MA's), (150, 40082), (151, 40079), (154, 40073), (183, 39989), (201, 39920),

Gene: HanKaySha_76 Start: 47660, Stop: 48073, Start Num: 64
Candidate Starts for HanKaySha_76:
(Start: 64 @47660 has 154 MA's), (Start: 72 @47675 has 12 MA's), (138, 47822), (183, 47960),

Gene: Hankly_92 Start: 52366, Stop: 52731, Start Num: 67
Candidate Starts for Hankly_92:
(Start: 67 @52366 has 10 MA's), (183, 52603), (190, 52624), (218, 52720),

Gene: Happiness_60 Start: 40229, Stop: 39849, Start Num: 18
Candidate Starts for Happiness_60:
(Start: 18 @40229 has 171 MA's), (150, 40070), (154, 40061), (183, 39977), (201, 39908),

Gene: Harella_76 Start: 49212, Stop: 49625, Start Num: 64
Candidate Starts for Harella_76:
(Start: 64 @49212 has 154 MA's), (Start: 72 @49227 has 12 MA's), (138, 49374), (183, 49512),

Gene: HashRod_68 Start: 40971, Stop: 40552, Start Num: 66
Candidate Starts for HashRod_68:
(2, 41319), (3, 41316), (6, 41277), (Start: 61 @40980 has 9 MA's), (Start: 66 @40971 has 180 MA's), (Start: 70 @40962 has 15 MA's), (112, 40869), (183, 40716), (201, 40647), (209, 40617),

Gene: HaveUMetTed_68 Start: 40814, Stop: 40395, Start Num: 66
Candidate Starts for HaveUMetTed_68:
(10, 41069), (Start: 61 @40823 has 9 MA's), (Start: 66 @40814 has 180 MA's), (Start: 70 @40805 has 15 MA's), (112, 40712), (183, 40559), (201, 40490),

Gene: Heathen_64 Start: 40360, Stop: 39977, Start Num: 18
Candidate Starts for Heathen_64:
(4, 40510), (Start: 16 @40369 has 8 MA's), (Start: 18 @40360 has 171 MA's), (150, 40204), (177, 40129), (183, 40111), (209, 40012),

Gene: HelDan_63 Start: 40585, Stop: 40193, Start Num: 16
Candidate Starts for HelDan_63:
(4, 40726), (Start: 16 @40585 has 8 MA's), (Start: 18 @40576 has 171 MA's), (150, 40420), (177, 40345), (183, 40327), (209, 40228),

Gene: Heliosoles_66 Start: 40832, Stop: 40413, Start Num: 66
Candidate Starts for Heliosoles_66:
(Start: 61 @40841 has 9 MA's), (Start: 66 @40832 has 180 MA's), (Start: 70 @40823 has 15 MA's), (112, 40730), (183, 40577), (201, 40508),

Gene: Henry_74 Start: 48000, Stop: 48413, Start Num: 64
Candidate Starts for Henry_74:
(Start: 64 @48000 has 154 MA's), (Start: 72 @48015 has 12 MA's), (138, 48162), (183, 48300),

Gene: Hercules11_67 Start: 40952, Stop: 40533, Start Num: 66
Candidate Starts for Hercules11_67:
(2, 41300), (3, 41297), (Start: 61 @40961 has 9 MA's), (Start: 66 @40952 has 180 MA's), (Start: 70 @40943 has 15 MA's), (112, 40850), (183, 40697), (201, 40628),

Gene: Highbury_75 Start: 47648, Stop: 48061, Start Num: 64
Candidate Starts for Highbury_75:
(Start: 64 @47648 has 154 MA's), (Start: 72 @47663 has 12 MA's), (138, 47810), (183, 47948),

Gene: Holli_60 Start: 40033, Stop: 39653, Start Num: 18
Candidate Starts for Holli_60:
(Start: 18 @40033 has 171 MA's), (150, 39874), (154, 39865), (183, 39781), (201, 39712), (202, 39706),

Gene: Holt_81 Start: 48773, Stop: 49186, Start Num: 64
Candidate Starts for Holt_81:
(Start: 64 @48773 has 154 MA's), (Start: 72 @48788 has 12 MA's), (138, 48935), (183, 49073),

Gene: Hookmount_63 Start: 40647, Stop: 40264, Start Num: 18
Candidate Starts for Hookmount_63:
(Start: 16 @40656 has 8 MA's), (Start: 18 @40647 has 171 MA's), (112, 40551), (150, 40491), (183, 40398), (209, 40299), (211, 40296), (224, 40269),

Gene: Hoonter_79 Start: 48359, Stop: 48772, Start Num: 64
Candidate Starts for Hoonter_79:
(Start: 64 @48359 has 154 MA's), (Start: 72 @48374 has 12 MA's), (138, 48521), (183, 48659),

Gene: Hopey_76 Start: 48192, Stop: 48605, Start Num: 64
Candidate Starts for Hopey_76:
(Start: 64 @48192 has 154 MA's), (Start: 72 @48207 has 12 MA's), (138, 48354), (183, 48492),

Gene: Houdini22_60 Start: 40247, Stop: 39867, Start Num: 18
Candidate Starts for Houdini22_60:

(Start: 18 @40247 has 171 MA's), (150, 40088), (154, 40079), (183, 39995), (201, 39926),

Gene: HufflyPuff_79 Start: 49025, Stop: 49438, Start Num: 64
Candidate Starts for HufflyPuff_79:
(Start: 64 @49025 has 154 MA's), (Start: 72 @49040 has 12 MA's), (138, 49187), (183, 49325),

Gene: Hutc2_62 Start: 39382, Stop: 38996, Start Num: 60
Candidate Starts for Hutc2_62:
(1, 39706), (5, 39658), (11, 39601), (25, 39478), (29, 39451), (Start: 60 @39382 has 21 MA's), (Start: 66 @39370 has 180 MA's), (111, 39274), (150, 39211), (154, 39202), (160, 39190), (177, 39136), (183, 39118), (201, 39049),

Gene: Huxley_60 Start: 40307, Stop: 39927, Start Num: 18
Candidate Starts for Huxley_60:
(Start: 18 @40307 has 171 MA's), (150, 40148), (154, 40139), (183, 40055), (201, 39986),

Gene: ICleared_60 Start: 40275, Stop: 39895, Start Num: 18
Candidate Starts for ICleared_60:
(Start: 18 @40275 has 171 MA's), (150, 40116), (154, 40107), (183, 40023), (201, 39954),

Gene: IHOP_74 Start: 48124, Stop: 48537, Start Num: 64
Candidate Starts for IHOP_74:
(Start: 64 @48124 has 154 MA's), (Start: 72 @48139 has 12 MA's), (138, 48286), (183, 48424),

Gene: IPhane7_122 Start: 65032, Stop: 65529, Start Num: 64
Candidate Starts for IPhane7_122:
(27, 64930), (Start: 42 @64990 has 1 MA's), (Start: 64 @65032 has 154 MA's), (Start: 90 @65086 has 4 MA's), (Start: 98 @65110 has 1 MA's), (143, 65221), (149, 65236), (183, 65344), (190, 65365), (201, 65413),

Gene: Ibantik_12 Start: 5154, Stop: 4792, Start Num: 92
Candidate Starts for Ibantik_12:
(82, 5169), (Start: 92 @5154 has 1 MA's), (97, 5139), (112, 5103), (183, 4908), (192, 4881), (209, 4809), (212, 4803),

Gene: Icee_77 Start: 48023, Stop: 48436, Start Num: 64
Candidate Starts for Icee_77:
(Start: 64 @48023 has 154 MA's), (Start: 72 @48038 has 12 MA's), (138, 48185), (183, 48323),

Gene: Iceman_61 Start: 40532, Stop: 40152, Start Num: 18
Candidate Starts for Iceman_61:
(Start: 18 @40532 has 171 MA's), (150, 40373), (154, 40364), (183, 40280), (201, 40211), (202, 40205),

Gene: Idleandcovert_64 Start: 40669, Stop: 40286, Start Num: 18
Candidate Starts for Idleandcovert_64:
(4, 40819), (Start: 16 @40678 has 8 MA's), (Start: 18 @40669 has 171 MA's), (150, 40513), (167, 40486), (177, 40438), (183, 40420), (209, 40321), (224, 40291),

Gene: Inca_73 Start: 46649, Stop: 47062, Start Num: 64
Candidate Starts for Inca_73:
(Start: 64 @46649 has 154 MA's), (Start: 72 @46664 has 12 MA's), (138, 46811), (183, 46949),

Gene: Insomnia_64 Start: 39893, Stop: 39507, Start Num: 60
Candidate Starts for Insomnia_64:
(1, 40217), (5, 40169), (11, 40112), (25, 39989), (29, 39962), (Start: 60 @39893 has 21 MA's), (Start: 66 @39881 has 180 MA's), (111, 39785), (150, 39722), (154, 39713), (160, 39701), (177, 39647), (183, 39629), (201, 39560),

Gene: Iracema64_62 Start: 40510, Stop: 40130, Start Num: 18
Candidate Starts for Iracema64_62:
(Start: 18 @40510 has 171 MA's), (150, 40351), (154, 40342), (183, 40258), (201, 40189),

Gene: Isca_62 Start: 40131, Stop: 39739, Start Num: 16
Candidate Starts for Isca_62:
(Start: 16 @40131 has 8 MA's), (Start: 18 @40122 has 171 MA's), (150, 39966), (177, 39891), (183, 39873), (209, 39774),

Gene: Izel_125 Start: 65027, Stop: 65524, Start Num: 64
Candidate Starts for Izel_125:
(27, 64925), (Start: 42 @64985 has 1 MA's), (Start: 64 @65027 has 154 MA's), (Start: 70 @65039 has 15 MA's), (Start: 90 @65081 has 4 MA's), (Start: 98 @65105 has 1 MA's), (143, 65216), (149, 65231), (183, 65339), (190, 65360), (201, 65408),

Gene: JF2_62 Start: 38826, Stop: 38434, Start Num: 16
Candidate Starts for JF2_62:
(Start: 16 @38826 has 8 MA's), (Start: 18 @38817 has 171 MA's), (150, 38661), (177, 38586), (183, 38568), (201, 38499), (209, 38469), (218, 38451),

Gene: JF4_62 Start: 38817, Stop: 38434, Start Num: 18
Candidate Starts for JF4_62:
(Start: 16 @38826 has 8 MA's), (Start: 18 @38817 has 171 MA's), (150, 38661), (177, 38586), (183, 38568), (201, 38499), (209, 38469), (218, 38451),

Gene: JHC117_65 Start: 40942, Stop: 40523, Start Num: 66
Candidate Starts for JHC117_65:
(2, 41290), (3, 41287), (Start: 61 @40951 has 9 MA's), (Start: 66 @40942 has 180 MA's), (Start: 70 @40933 has 15 MA's), (112, 40840), (183, 40687), (201, 40618),

Gene: Jabith_64 Start: 39882, Stop: 39508, Start Num: 66
Candidate Starts for Jabith_64:
(1, 40218), (5, 40170), (11, 40113), (25, 39990), (29, 39963), (Start: 60 @39894 has 21 MA's), (Start: 66 @39882 has 180 MA's), (111, 39786), (150, 39723), (154, 39714), (160, 39702), (177, 39648), (183, 39630), (201, 39561),

Gene: Jaykayelowell_58 Start: 40236, Stop: 39856, Start Num: 18
Candidate Starts for Jaykayelowell_58:
(Start: 18 @40236 has 171 MA's), (150, 40077), (154, 40068), (183, 39984), (201, 39915), (202, 39909),

Gene: JeNeSaisPas_247 Start: 108595, Stop: 108954, Start Num: 64
Candidate Starts for JeNeSaisPas_247:
(Start: 64 @108595 has 154 MA's), (100, 108673), (112, 108700), (114, 108703), (183, 108832), (199, 108892),

Gene: JeTaime_76 Start: 48841, Stop: 49254, Start Num: 64

Candidate Starts for JeTaime_76:
(Start: 64 @48841 has 154 MA's), (Start: 72 @48856 has 12 MA's), (138, 49003), (183, 49141),

Gene: JenCasNa_68 Start: 40934, Stop: 40524, Start Num: 70
Candidate Starts for JenCasNa_68:
(2, 41291), (3, 41288), (Start: 61 @40952 has 9 MA's), (Start: 66 @40943 has 180 MA's), (Start: 70 @40934 has 15 MA's), (112, 40841), (183, 40688), (201, 40619),

Gene: JeppNRM_68 Start: 40830, Stop: 40411, Start Num: 66
Candidate Starts for JeppNRM_68:
(10, 41085), (Start: 61 @40839 has 9 MA's), (Start: 66 @40830 has 180 MA's), (Start: 70 @40821 has 15 MA's), (112, 40728), (183, 40575), (201, 40506),

Gene: JetBlade_61 Start: 40237, Stop: 39857, Start Num: 18
Candidate Starts for JetBlade_61:
(Start: 18 @40237 has 171 MA's), (150, 40078), (154, 40069), (183, 39985), (201, 39916),

Gene: Jobu08_65 Start: 40784, Stop: 40356, Start Num: 61
Candidate Starts for Jobu08_65:
(2, 41123), (3, 41120), (6, 41081), (Start: 61 @40784 has 9 MA's), (Start: 66 @40775 has 180 MA's), (Start: 70 @40766 has 15 MA's), (112, 40673), (183, 40520), (201, 40451),

Gene: JoeDirt_86 Start: 55023, Stop: 55436, Start Num: 66
Candidate Starts for JoeDirt_86:
(Start: 66 @55023 has 180 MA's), (Start: 90 @55074 has 4 MA's), (Start: 92 @55080 has 1 MA's), (183, 55314), (190, 55335), (192, 55341), (201, 55383),

Gene: JonJames_129 Start: 74477, Stop: 74908, Start Num: 66
Candidate Starts for JonJames_129:
(Start: 66 @74477 has 180 MA's), (85, 74522), (Start: 90 @74528 has 4 MA's), (Start: 98 @74552 has 1 MA's), (113, 74561), (183, 74756), (184, 74759), (185, 74765), (214, 74864), (225, 74888),

Gene: JoongJeon_60 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for JoongJeon_60:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919),

Gene: Joselito_64 Start: 39830, Stop: 39456, Start Num: 66
Candidate Starts for Joselito_64:
(1, 40166), (5, 40118), (11, 40061), (25, 39938), (29, 39911), (Start: 60 @39842 has 21 MA's), (Start: 66 @39830 has 180 MA's), (111, 39734), (150, 39671), (154, 39662), (160, 39650), (177, 39596), (183, 39578), (201, 39509),

Gene: Jsquared_66 Start: 39964, Stop: 39587, Start Num: 66
Candidate Starts for Jsquared_66:
(57, 39979), (Start: 66 @39964 has 180 MA's), (Start: 72 @39952 has 12 MA's), (78, 39934), (94, 39901), (150, 39805), (183, 39712), (197, 39667), (201, 39643),

Gene: Junimo_58 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Junimo_58:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: JustBecause_112 Start: 74626, Stop: 74162, Start Num: 72

Candidate Starts for JustBecause_112:
(Start: 72 @74626 has 12 MA's), (83, 74593), (94, 74572), (97, 74563), (117, 74521), (123, 74506), (136, 74479), (183, 74332), (187, 74317), (192, 74305), (212, 74224), (229, 74173),

Gene: KADY_66 Start: 40971, Stop: 40552, Start Num: 66
Candidate Starts for KADY_66:
(2, 41319), (3, 41316), (6, 41277), (Start: 61 @40980 has 9 MA's), (Start: 66 @40971 has 180 MA's), (Start: 70 @40962 has 15 MA's), (112, 40869), (183, 40716), (201, 40647), (209, 40617),

Gene: KFPoly_60 Start: 40237, Stop: 39857, Start Num: 18
Candidate Starts for KFPoly_60:
(Start: 18 @40237 has 171 MA's), (150, 40078), (154, 40069), (183, 39985), (201, 39916),

Gene: Kachowdy_64 Start: 40612, Stop: 40229, Start Num: 18
Candidate Starts for Kachowdy_64:
(4, 40762), (Start: 16 @40621 has 8 MA's), (Start: 18 @40612 has 171 MA's), (150, 40456), (177, 40381), (183, 40363), (209, 40264),

Gene: Kalb97_68 Start: 40828, Stop: 40409, Start Num: 66
Candidate Starts for Kalb97_68:
(10, 41083), (Start: 61 @40837 has 9 MA's), (Start: 66 @40828 has 180 MA's), (Start: 70 @40819 has 15 MA's), (112, 40726), (183, 40573), (201, 40504),

Gene: Kalnoky_68 Start: 40826, Stop: 40407, Start Num: 66
Candidate Starts for Kalnoky_68:
(Start: 61 @40835 has 9 MA's), (Start: 66 @40826 has 180 MA's), (Start: 70 @40817 has 15 MA's), (112, 40724), (183, 40571), (201, 40502),

Gene: Kampe_66 Start: 55077, Stop: 54682, Start Num: 86
Candidate Starts for Kampe_66:
(Start: 86 @55077 has 4 MA's), (95, 55062), (177, 54852), (183, 54834), (185, 54825), (201, 54765), (228, 54699), (230, 54690),

Gene: Kampy_60 Start: 40245, Stop: 39865, Start Num: 18
Candidate Starts for Kampy_60:
(Start: 18 @40245 has 171 MA's), (150, 40086), (154, 40077), (183, 39993), (201, 39924), (202, 39918),

Gene: Kanye_73 Start: 47705, Stop: 48118, Start Num: 64
Candidate Starts for Kanye_73:
(Start: 64 @47705 has 154 MA's), (Start: 72 @47720 has 12 MA's), (138, 47867), (183, 48005),

Gene: Katalie136_59 Start: 40083, Stop: 39697, Start Num: 18
Candidate Starts for Katalie136_59:
(Start: 18 @40083 has 171 MA's), (150, 39924), (154, 39915), (183, 39831), (201, 39762),

Gene: KeaneyLin_89 Start: 52219, Stop: 52584, Start Num: 67
Candidate Starts for KeaneyLin_89:
(Start: 67 @52219 has 10 MA's), (183, 52456), (190, 52477), (218, 52573),

Gene: KekoraPapaka_59 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for KekoraPapaka_59:

(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: Kela_113 Start: 74506, Stop: 74042, Start Num: 72
Candidate Starts for Kela_113:
(Start: 72 @74506 has 12 MA's), (83, 74473), (94, 74452), (97, 74443), (117, 74401), (123, 74386), (136, 74359), (183, 74212), (187, 74197), (192, 74185), (212, 74104), (229, 74053),

Gene: Kerberos_66 Start: 40912, Stop: 40535, Start Num: 66
Candidate Starts for Kerberos_66:
(23, 41026), (Start: 66 @40912 has 180 MA's), (Start: 90 @40861 has 4 MA's), (112, 40813), (114, 40810), (150, 40753), (183, 40660), (184, 40657), (201, 40591),

Gene: Killigrew_36 Start: 30926, Stop: 30498, Start Num: 66
Candidate Starts for Killigrew_36:
(Start: 66 @30926 has 180 MA's), (106, 30839), (156, 30737), (158, 30734), (171, 30695), (191, 30632),

Gene: Kimba_63 Start: 39414, Stop: 39028, Start Num: 60
Candidate Starts for Kimba_63:
(1, 39738), (5, 39690), (11, 39633), (25, 39510), (29, 39483), (Start: 60 @39414 has 21 MA's), (Start: 66 @39402 has 180 MA's), (111, 39306), (150, 39243), (154, 39234), (160, 39222), (177, 39168), (183, 39150), (201, 39081),

Gene: Kimchi_80 Start: 48362, Stop: 48775, Start Num: 64
Candidate Starts for Kimchi_80:
(Start: 64 @48362 has 154 MA's), (Start: 72 @48377 has 12 MA's), (138, 48524), (183, 48662),

Gene: Kimona_58 Start: 38659, Stop: 38276, Start Num: 66
Candidate Starts for Kimona_58:
(24, 38791), (Start: 66 @38659 has 180 MA's), (94, 38596), (114, 38557), (150, 38500), (154, 38491), (177, 38425), (183, 38407), (190, 38386), (201, 38338),

Gene: Kingmustik0402_61 Start: 40232, Stop: 39852, Start Num: 18
Candidate Starts for Kingmustik0402_61:
(Start: 18 @40232 has 171 MA's), (150, 40073), (154, 40064), (183, 39980), (201, 39911),

Gene: Kinmap_63 Start: 39098, Stop: 38730, Start Num: 70
Candidate Starts for Kinmap_63:
(Start: 66 @39107 has 180 MA's), (Start: 70 @39098 has 15 MA's), (104, 39026), (183, 38858), (184, 38855), (201, 38789),

Gene: KleverKiS_127 Start: 66517, Stop: 67014, Start Num: 64
Candidate Starts for KleverKiS_127:
(27, 66415), (Start: 42 @66475 has 1 MA's), (Start: 64 @66517 has 154 MA's), (Start: 90 @66571 has 4 MA's), (Start: 98 @66595 has 1 MA's), (143, 66706), (149, 66721), (183, 66829), (190, 66850), (201, 66898),

Gene: Koan_58 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Koan_58:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: Koduck_66 Start: 39809, Stop: 39432, Start Num: 66
Candidate Starts for Koduck_66:
(57, 39824), (Start: 66 @39809 has 180 MA's), (Start: 70 @39800 has 15 MA's), (Start: 72 @39797 has 12 MA's), (94, 39746), (150, 39650), (160, 39629), (183, 39557), (192, 39530), (201, 39488),

Gene: Koreni_60 Start: 39924, Stop: 39544, Start Num: 18
Candidate Starts for Koreni_60:
(Start: 18 @39924 has 171 MA's), (150, 39765), (154, 39756), (183, 39672), (201, 39603), (202, 39597),

Gene: Kostya_76 Start: 48238, Stop: 48636, Start Num: 72
Candidate Starts for Kostya_76:
(Start: 64 @48223 has 154 MA's), (Start: 72 @48238 has 12 MA's), (138, 48385), (183, 48523),

Gene: Kradal_113 Start: 75438, Stop: 74971, Start Num: 72
Candidate Starts for Kradal_113:
(50, 75474), (Start: 72 @75438 has 12 MA's), (81, 75411), (97, 75372), (112, 75336), (136, 75288), (182, 75144), (183, 75141), (212, 75033), (229, 74982),

Gene: Kratark_60 Start: 40241, Stop: 39861, Start Num: 18
Candidate Starts for Kratark_60:
(Start: 18 @40241 has 171 MA's), (150, 40082), (154, 40073), (183, 39989), (201, 39920),

Gene: Kremtemulon_60 Start: 40191, Stop: 39811, Start Num: 66
Candidate Starts for Kremtemulon_60:
(11, 40425), (20, 40326), (Start: 66 @40191 has 180 MA's), (Start: 70 @40182 has 15 MA's), (150, 40032), (154, 40023), (183, 39939), (201, 39870),

Gene: Kropertea_82 Start: 54741, Stop: 55079, Start Num: 98
Candidate Starts for Kropertea_82:
(Start: 62 @54663 has 7 MA's), (Start: 98 @54741 has 1 MA's), (105, 54750), (112, 54762), (138, 54819), (144, 54840), (183, 54957), (201, 55026),

Gene: Kumao_84 Start: 54374, Stop: 54781, Start Num: 70
Candidate Starts for Kumao_84:
(51, 54347), (55, 54353), (Start: 70 @54374 has 15 MA's), (160, 54545), (177, 54599), (183, 54617), (184, 54620), (201, 54686), (211, 54719),

Gene: Kureo_242 Start: 106818, Stop: 107177, Start Num: 64
Candidate Starts for Kureo_242:
(Start: 64 @106818 has 154 MA's), (100, 106896), (112, 106923), (114, 106926), (183, 107055), (202, 107130),

Gene: Kyee_61 Start: 40241, Stop: 39861, Start Num: 18
Candidate Starts for Kyee_61:
(Start: 18 @40241 has 171 MA's), (150, 40082), (154, 40073), (183, 39989), (201, 39920),

Gene: L5_61 Start: 39896, Stop: 39519, Start Num: 66
Candidate Starts for L5_61:
(23, 40010), (57, 39911), (Start: 66 @39896 has 180 MA's), (94, 39833), (150, 39737), (160, 39716), (183, 39644), (201, 39575),

Gene: LBerry_68 Start: 40947, Stop: 40528, Start Num: 66

Candidate Starts for LBerry_68:
(2, 41295), (3, 41292), (Start: 61 @40956 has 9 MA's), (Start: 66 @40947 has 180 MA's), (Start: 70 @40938 has 15 MA's), (112, 40845), (183, 40692), (201, 40623),

Gene: LHTSCC_63 Start: 40646, Stop: 40266, Start Num: 18
Candidate Starts for LHTSCC_63:
(Start: 18 @40646 has 171 MA's), (150, 40487), (154, 40478), (183, 40394), (201, 40325),

Gene: Lambert1_63 Start: 40646, Stop: 40263, Start Num: 18
Candidate Starts for Lambert1_63:
(Start: 16 @40655 has 8 MA's), (Start: 18 @40646 has 171 MA's), (112, 40550), (150, 40490), (183, 40397), (209, 40298), (211, 40295), (224, 40268),

Gene: LappelDuVide_61 Start: 40242, Stop: 39862, Start Num: 18
Candidate Starts for LappelDuVide_61:
(Start: 18 @40242 has 171 MA's), (150, 40083), (154, 40074), (183, 39990), (201, 39921), (202, 39915),

Gene: LarryKay_67 Start: 40973, Stop: 40554, Start Num: 66
Candidate Starts for LarryKay_67:
(2, 41321), (3, 41318), (Start: 61 @40982 has 9 MA's), (Start: 66 @40973 has 180 MA's), (Start: 70 @40964 has 15 MA's), (112, 40871), (183, 40718), (201, 40649), (227, 40571),

Gene: LeBron_84 Start: 53694, Stop: 54107, Start Num: 66
Candidate Starts for LeBron_84:
(Start: 66 @53694 has 180 MA's), (Start: 90 @53745 has 4 MA's), (Start: 92 @53751 has 1 MA's), (183, 53985), (190, 54006), (192, 54012), (201, 54054),

Gene: Lemur_61 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for Lemur_61:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919), (202, 39913),

Gene: LeoAvram_60 Start: 40246, Stop: 39866, Start Num: 18
Candidate Starts for LeoAvram_60:
(Start: 16 @40255 has 8 MA's), (Start: 18 @40246 has 171 MA's), (150, 40087), (151, 40084), (154, 40078), (183, 39994), (201, 39925),

Gene: Lilac_78 Start: 47977, Stop: 48390, Start Num: 64
Candidate Starts for Lilac_78:
(Start: 64 @47977 has 154 MA's), (Start: 72 @47992 has 12 MA's), (138, 48139), (183, 48277),

Gene: Lilbit_71 Start: 41279, Stop: 41770, Start Num: 60
Candidate Starts for Lilbit_71:
(Start: 60 @41279 has 21 MA's), (132, 41426), (183, 41582), (184, 41585), (195, 41621), (201, 41651), (211, 41684),

Gene: LilhomieP_124 Start: 66310, Stop: 66807, Start Num: 64
Candidate Starts for LilhomieP_124:
(27, 66208), (Start: 42 @66268 has 1 MA's), (Start: 64 @66310 has 154 MA's), (Start: 90 @66364 has 4 MA's), (Start: 98 @66388 has 1 MA's), (143, 66499), (149, 66514), (183, 66622), (190, 66643), (201, 66691),

Gene: Lilith_66 Start: 40936, Stop: 40517, Start Num: 66
Candidate Starts for Lilith_66:
(2, 41284), (3, 41281), (Start: 61 @40945 has 9 MA's), (Start: 66 @40936 has 180 MA's), (Start: 70 @40927 has 15 MA's), (112, 40834), (183, 40681), (201, 40612),

Gene: Lilizi_77 Start: 47690, Stop: 48103, Start Num: 64
Candidate Starts for Lilizi_77:
(Start: 64 @47690 has 154 MA's), (Start: 72 @47705 has 12 MA's), (138, 47852), (183, 47990),

Gene: Lilpickle_75 Start: 47575, Stop: 47988, Start Num: 64
Candidate Starts for Lilpickle_75:
(Start: 64 @47575 has 154 MA's), (Start: 72 @47590 has 12 MA's), (138, 47737), (183, 47875),

Gene: LittleB_61 Start: 40244, Stop: 39864, Start Num: 18
Candidate Starts for LittleB_61:
(Start: 18 @40244 has 171 MA's), (150, 40085), (154, 40076), (183, 39992), (201, 39923), (202, 39917),

Gene: LittleGuy_61 Start: 40139, Stop: 39759, Start Num: 18
Candidate Starts for LittleGuy_61:
(Start: 18 @40139 has 171 MA's), (150, 39980), (154, 39971), (183, 39887), (201, 39818), (202, 39812),

Gene: LittleLaf_73 Start: 41008, Stop: 41499, Start Num: 60
Candidate Starts for LittleLaf_73:
(Start: 60 @41008 has 21 MA's), (132, 41155), (183, 41311), (184, 41314), (195, 41350), (201, 41380), (211, 41413),

Gene: Livelaughbron_78 Start: 49153, Stop: 49566, Start Num: 64
Candidate Starts for Livelaughbron_78:
(Start: 64 @49153 has 154 MA's), (Start: 72 @49168 has 12 MA's), (138, 49315), (183, 49453),

Gene: LochMonster_62 Start: 40482, Stop: 40102, Start Num: 18
Candidate Starts for LochMonster_62:
(Start: 18 @40482 has 171 MA's), (150, 40323), (154, 40314), (183, 40230), (201, 40161), (202, 40155),

Gene: Lorenzo_61 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Lorenzo_61:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: Louie6_66 Start: 40972, Stop: 40553, Start Num: 66
Candidate Starts for Louie6_66:
(Start: 61 @40981 has 9 MA's), (Start: 66 @40972 has 180 MA's), (Start: 70 @40963 has 15 MA's), (112, 40870), (183, 40717), (201, 40648), (209, 40618),

Gene: Lowa_67 Start: 40935, Stop: 40516, Start Num: 66
Candidate Starts for Lowa_67:
(2, 41283), (3, 41280), (Start: 61 @40944 has 9 MA's), (Start: 66 @40935 has 180 MA's), (Start: 70 @40926 has 15 MA's), (112, 40833), (183, 40680), (201, 40611),

Gene: Lozinak_118 Start: 68218, Stop: 68595, Start Num: 66

Candidate Starts for Lozinak_118:
(43, 68173), (Start: 66 @68218 has 180 MA's), (93, 68278), (183, 68476), (185, 68485), (186, 68488), (190, 68497), (201, 68545), (209, 68575),

Gene: Lucivia_64 Start: 39879, Stop: 39505, Start Num: 66
Candidate Starts for Lucivia_64:
(1, 40215), (5, 40167), (11, 40110), (25, 39987), (Start: 60 @39891 has 21 MA's), (Start: 66 @39879 has 180 MA's), (150, 39720), (154, 39711), (177, 39645), (183, 39627), (201, 39558),

Gene: LuckySocke_170 Start: 88165, Stop: 88563, Start Num: 66
Candidate Starts for LuckySocke_170:
(Start: 66 @88165 has 180 MA's), (Start: 72 @88177 has 12 MA's), (112, 88261), (116, 88267), (127, 88291), (183, 88432), (191, 88456), (203, 88501), (207, 88513), (221, 88546),

Gene: LugYA_70 Start: 40944, Stop: 40525, Start Num: 66
Candidate Starts for LugYA_70:
(2, 41292), (3, 41289), (Start: 61 @40953 has 9 MA's), (Start: 66 @40944 has 180 MA's), (Start: 70 @40935 has 15 MA's), (112, 40842), (183, 40689), (201, 40620),

Gene: Lunsford_62 Start: 40237, Stop: 39857, Start Num: 18
Candidate Starts for Lunsford_62:
(Start: 18 @40237 has 171 MA's), (150, 40078), (151, 40075), (154, 40069), (183, 39985), (201, 39916),

Gene: MA5_64 Start: 40026, Stop: 39643, Start Num: 18
Candidate Starts for MA5_64:
(Start: 16 @40035 has 8 MA's), (Start: 18 @40026 has 171 MA's), (150, 39870), (177, 39795), (183, 39777), (209, 39678),

Gene: MISSy_77 Start: 48096, Stop: 48494, Start Num: 72
Candidate Starts for MISSy_77:
(Start: 64 @48081 has 154 MA's), (Start: 72 @48096 has 12 MA's), (138, 48243), (183, 48381),

Gene: MK4_64 Start: 40101, Stop: 39718, Start Num: 18
Candidate Starts for MK4_64:
(Start: 16 @40110 has 8 MA's), (Start: 18 @40101 has 171 MA's), (150, 39945), (177, 39870), (183, 39852), (201, 39783), (209, 39753), (218, 39735),

Gene: MPhalcon_77 Start: 48074, Stop: 48487, Start Num: 64
Candidate Starts for MPhalcon_77:
(Start: 64 @48074 has 154 MA's), (Start: 72 @48089 has 12 MA's), (138, 48236), (183, 48374),

Gene: MaCh_63 Start: 39809, Stop: 39435, Start Num: 66
Candidate Starts for MaCh_63:
(1, 40145), (5, 40097), (11, 40040), (25, 39917), (Start: 60 @39821 has 21 MA's), (Start: 66 @39809 has 180 MA's), (111, 39713), (150, 39650), (154, 39641), (160, 39629), (177, 39575), (183, 39557), (201, 39488),

Gene: Mabel_63 Start: 39826, Stop: 39452, Start Num: 66
Candidate Starts for Mabel_63:
(1, 40162), (5, 40114), (11, 40057), (25, 39934), (Start: 60 @39838 has 21 MA's), (Start: 66 @39826 has 180 MA's), (150, 39667), (154, 39658), (177, 39592), (183, 39574), (201, 39505),

Gene: MadMarie_67 Start: 40945, Stop: 40526, Start Num: 66
Candidate Starts for MadMarie_67:
(2, 41293), (3, 41290), (6, 41251), (Start: 61 @40954 has 9 MA's), (Start: 66 @40945 has 180 MA's), (Start: 70 @40936 has 15 MA's), (112, 40843), (183, 40690), (201, 40621),

Gene: MadamMonkfish_76 Start: 47299, Stop: 47712, Start Num: 64
Candidate Starts for MadamMonkfish_76:
(Start: 64 @47299 has 154 MA's), (Start: 72 @47314 has 12 MA's), (138, 47461), (183, 47599),

Gene: Mainiac_67 Start: 40937, Stop: 40518, Start Num: 66
Candidate Starts for Mainiac_67:
(2, 41285), (3, 41282), (Start: 61 @40946 has 9 MA's), (Start: 66 @40937 has 180 MA's), (Start: 70 @40928 has 15 MA's), (112, 40835), (183, 40682), (201, 40613),

Gene: MajorMajor_64 Start: 39806, Stop: 39429, Start Num: 66
Candidate Starts for MajorMajor_64:
(23, 39920), (57, 39821), (Start: 66 @39806 has 180 MA's), (Start: 72 @39794 has 12 MA's), (94, 39743), (150, 39647), (183, 39554), (201, 39485),

Gene: Malinsilva_69 Start: 40926, Stop: 40516, Start Num: 70
Candidate Starts for Malinsilva_69:
(2, 41283), (3, 41280), (Start: 61 @40944 has 9 MA's), (Start: 66 @40935 has 180 MA's), (Start: 70 @40926 has 15 MA's), (112, 40833), (183, 40680), (201, 40611),

Gene: Manda_77 Start: 49161, Stop: 49574, Start Num: 64
Candidate Starts for Manda_77:
(Start: 64 @49161 has 154 MA's), (Start: 72 @49176 has 12 MA's), (138, 49323), (183, 49461),

Gene: Manu_67 Start: 40829, Stop: 40410, Start Num: 66
Candidate Starts for Manu_67:
(10, 41084), (Start: 61 @40838 has 9 MA's), (Start: 66 @40829 has 180 MA's), (Start: 70 @40820 has 15 MA's), (112, 40727), (183, 40574), (201, 40505),

Gene: MarQuardt_67 Start: 40936, Stop: 40526, Start Num: 70
Candidate Starts for MarQuardt_67:
(2, 41293), (3, 41290), (Start: 61 @40954 has 9 MA's), (Start: 66 @40945 has 180 MA's), (Start: 70 @40936 has 15 MA's), (112, 40843), (183, 40690), (201, 40621),

Gene: Marchesa_62 Start: 40562, Stop: 40179, Start Num: 18
Candidate Starts for Marchesa_62:
(4, 40712), (Start: 16 @40571 has 8 MA's), (Start: 18 @40562 has 171 MA's), (150, 40406), (177, 40331), (183, 40313), (209, 40214),

Gene: Mareelih_168 Start: 96702, Stop: 96343, Start Num: 99
Candidate Starts for Mareelih_168:
(Start: 99 @96702 has 5 MA's), (Start: 102 @96693 has 1 MA's), (105, 96690), (120, 96660), (128, 96639), (146, 96585), (183, 96468), (185, 96459), (190, 96447), (195, 96429),

Gene: Margo_63 Start: 40672, Stop: 40289, Start Num: 18
Candidate Starts for Margo_63:
(Start: 16 @40681 has 8 MA's), (Start: 18 @40672 has 171 MA's), (112, 40576), (150, 40516), (183, 40423), (209, 40324), (211, 40321), (224, 40294),

Gene: Marianna39_246 Start: 109420, Stop: 109803, Start Num: 64
Candidate Starts for Marianna39_246:
(Start: 64 @109420 has 154 MA's), (100, 109498), (114, 109528), (116, 109531), (183, 109681), (199, 109741),

Gene: Marie_65 Start: 40943, Stop: 40524, Start Num: 66
Candidate Starts for Marie_65:
(2, 41291), (3, 41288), (Start: 61 @40952 has 9 MA's), (Start: 66 @40943 has 180 MA's), (Start: 70 @40934 has 15 MA's), (112, 40841), (183, 40688), (201, 40619),

Gene: Marius_68 Start: 40826, Stop: 40407, Start Num: 66
Candidate Starts for Marius_68:
(Start: 61 @40835 has 9 MA's), (Start: 66 @40826 has 180 MA's), (Start: 70 @40817 has 15 MA's), (112, 40724), (183, 40571), (201, 40502),

Gene: Marker_42 Start: 31554, Stop: 31120, Start Num: 66
Candidate Starts for Marker_42:
(Start: 66 @31554 has 180 MA's), (74, 31542), (156, 31365), (158, 31362), (174, 31320), (178, 31299), (210, 31197), (219, 31179), (231, 31128),

Gene: Marshmallow_74 Start: 48854, Stop: 49267, Start Num: 64
Candidate Starts for Marshmallow_74:
(Start: 64 @48854 has 154 MA's), (Start: 72 @48869 has 12 MA's), (148, 49046), (183, 49154), (192, 49181),

Gene: Marvin_69 Start: 40817, Stop: 41308, Start Num: 60
Candidate Starts for Marvin_69:
(Start: 60 @40817 has 21 MA's), (132, 40964), (183, 41120), (184, 41123), (195, 41159), (201, 41189), (211, 41222),

Gene: MaryV_120 Start: 62395, Stop: 62829, Start Num: 67
Candidate Starts for MaryV_120:
(Start: 67 @62395 has 10 MA's), (Start: 72 @62404 has 12 MA's), (Start: 86 @62440 has 4 MA's), (Start: 88 @62443 has 1 MA's), (115, 62506), (136, 62554), (139, 62560), (146, 62584), (178, 62683), (183, 62698), (204, 62770),

Gene: Maverick_60 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Maverick_60:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922),

Gene: Maxo_62 Start: 40245, Stop: 39865, Start Num: 18
Candidate Starts for Maxo_62:
(Start: 18 @40245 has 171 MA's), (150, 40086), (154, 40077), (183, 39993), (201, 39924), (202, 39918),

Gene: Maxxinista_78 Start: 47950, Stop: 48363, Start Num: 64
Candidate Starts for Maxxinista_78:
(Start: 64 @47950 has 154 MA's), (Start: 72 @47965 has 12 MA's), (138, 48112), (183, 48250),

Gene: Mayonnaise_59 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Mayonnaise_59:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922),

Gene: Mazhar510_61 Start: 40244, Stop: 39864, Start Num: 18
Candidate Starts for Mazhar510_61:
(Start: 18 @40244 has 171 MA's), (150, 40085), (154, 40076), (183, 39992), (201, 39923),

Gene: Medusa_61 Start: 40257, Stop: 39877, Start Num: 18
Candidate Starts for Medusa_61:
(Start: 18 @40257 has 171 MA's), (150, 40098), (154, 40089), (183, 40005), (201, 39936), (202, 39930),

Gene: MeeZee_60 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for MeeZee_60:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919), (202, 39913),

Gene: Melvin_63 Start: 40238, Stop: 39858, Start Num: 18
Candidate Starts for Melvin_63:
(Start: 18 @40238 has 171 MA's), (150, 40079), (154, 40070), (183, 39986), (201, 39917), (202, 39911),

Gene: Methuselah_62 Start: 40967, Stop: 40548, Start Num: 66
Candidate Starts for Methuselah_62:
(2, 41315), (3, 41312), (6, 41273), (Start: 61 @40976 has 9 MA's), (Start: 66 @40967 has 180 MA's), (Start: 70 @40958 has 15 MA's), (112, 40865), (183, 40712), (201, 40643), (227, 40565),

Gene: Microwolf_65 Start: 40959, Stop: 40540, Start Num: 66
Candidate Starts for Microwolf_65:
(2, 41307), (3, 41304), (Start: 61 @40968 has 9 MA's), (Start: 66 @40959 has 180 MA's), (Start: 70 @40950 has 15 MA's), (112, 40857), (183, 40704), (201, 40635),

Gene: Millski_60 Start: 40244, Stop: 39864, Start Num: 18
Candidate Starts for Millski_60:
(Start: 18 @40244 has 171 MA's), (150, 40085), (154, 40076), (183, 39992), (201, 39923), (202, 39917),

Gene: Mindy_75 Start: 47166, Stop: 47579, Start Num: 64
Candidate Starts for Mindy_75:
(Start: 64 @47166 has 154 MA's), (Start: 72 @47181 has 12 MA's), (138, 47328), (183, 47466),

Gene: Miniwave_71 Start: 47619, Stop: 48032, Start Num: 64
Candidate Starts for Miniwave_71:
(Start: 64 @47619 has 154 MA's), (Start: 72 @47634 has 12 MA's), (138, 47781), (183, 47919),

Gene: Miramae_58 Start: 39532, Stop: 39146, Start Num: 18
Candidate Starts for Miramae_58:
(Start: 18 @39532 has 171 MA's), (150, 39373), (154, 39364), (183, 39280), (201, 39211),

Gene: Misfit_77 Start: 49093, Stop: 49506, Start Num: 64
Candidate Starts for Misfit_77:
(Start: 64 @49093 has 154 MA's), (Start: 72 @49108 has 12 MA's), (138, 49255), (183, 49393),

Gene: Miskis_113 Start: 67235, Stop: 67612, Start Num: 66
Candidate Starts for Miskis_113:

(43, 67190), (Start: 66 @67235 has 180 MA's), (93, 67295), (183, 67493), (185, 67502), (186, 67505), (190, 67514), (201, 67562), (209, 67592),

Gene: Misomonster_68 Start: 40970, Stop: 40551, Start Num: 66
Candidate Starts for Misomonster_68:
(2, 41318), (3, 41315), (6, 41276), (Start: 61 @40979 has 9 MA's), (Start: 66 @40970 has 180 MA's), (Start: 70 @40961 has 15 MA's), (112, 40868), (183, 40715), (201, 40646), (209, 40616),

Gene: MissWhite_64 Start: 39952, Stop: 39575, Start Num: 66
Candidate Starts for MissWhite_64:
(23, 40063), (59, 39964), (Start: 66 @39952 has 180 MA's), (Start: 70 @39943 has 15 MA's), (Start: 72 @39940 has 12 MA's), (78, 39922), (94, 39889), (150, 39793), (183, 39700), (192, 39673), (201, 39631),

Gene: Moldemort_79 Start: 48178, Stop: 48591, Start Num: 64
Candidate Starts for Moldemort_79:
(Start: 64 @48178 has 154 MA's), (Start: 72 @48193 has 12 MA's), (138, 48340), (183, 48478),

Gene: MollyToe_71 Start: 46920, Stop: 47333, Start Num: 64
Candidate Starts for MollyToe_71:
(Start: 64 @46920 has 154 MA's), (Start: 72 @46935 has 12 MA's), (138, 47082), (183, 47220),

Gene: MoneyMay_66 Start: 40943, Stop: 40524, Start Num: 66
Candidate Starts for MoneyMay_66:
(2, 41291), (3, 41288), (Start: 61 @40952 has 9 MA's), (Start: 66 @40943 has 180 MA's), (Start: 70 @40934 has 15 MA's), (112, 40841), (183, 40688), (201, 40619),

Gene: Montavir_64 Start: 40935, Stop: 40525, Start Num: 70
Candidate Starts for Montavir_64:
(2, 41292), (3, 41289), (Start: 61 @40953 has 9 MA's), (Start: 66 @40944 has 180 MA's), (Start: 70 @40935 has 15 MA's), (112, 40842), (183, 40689), (201, 40620),

Gene: Morpher26_59 Start: 40104, Stop: 39718, Start Num: 18
Candidate Starts for Morpher26_59:
(Start: 18 @40104 has 171 MA's), (150, 39945), (154, 39936), (183, 39852), (201, 39783),

Gene: Morrow_62 Start: 40249, Stop: 39869, Start Num: 18
Candidate Starts for Morrow_62:
(Start: 16 @40258 has 8 MA's), (Start: 18 @40249 has 171 MA's), (150, 40090), (151, 40087), (154, 40081), (183, 39997), (201, 39928), (202, 39922),

Gene: MosMoris_70 Start: 40699, Stop: 41190, Start Num: 60
Candidate Starts for MosMoris_70:
(Start: 60 @40699 has 21 MA's), (132, 40846), (183, 41002), (184, 41005), (195, 41041), (201, 41071), (211, 41104),

Gene: Mosby_72 Start: 47376, Stop: 47789, Start Num: 64
Candidate Starts for Mosby_72:
(Start: 64 @47376 has 154 MA's), (Start: 72 @47391 has 12 MA's), (138, 47538), (183, 47676),

Gene: MrMagoo_142 Start: 66998, Stop: 67483, Start Num: 64
Candidate Starts for MrMagoo_142:

(Start: 60 @66989 has 21 MA's), (Start: 64 @66998 has 154 MA's), (121, 67112), (183, 67298), (190, 67319), (192, 67325), (201, 67367), (209, 67397),

Gene: MuchMore_70 Start: 40935, Stop: 40516, Start Num: 66
Candidate Starts for MuchMore_70:
(2, 41283), (3, 41280), (6, 41241), (Start: 61 @40944 has 9 MA's), (Start: 66 @40935 has 180 MA's), (Start: 70 @40926 has 15 MA's), (112, 40833), (183, 40680), (201, 40611),

Gene: Mulciber_62 Start: 39367, Stop: 38993, Start Num: 66
Candidate Starts for Mulciber_62:
(1, 39703), (5, 39655), (11, 39598), (25, 39475), (29, 39448), (Start: 60 @39379 has 21 MA's), (Start: 66 @39367 has 180 MA's), (111, 39271), (150, 39208), (154, 39199), (160, 39187), (177, 39133), (183, 39115), (201, 39046),

Gene: Munch_63 Start: 39830, Stop: 39456, Start Num: 66
Candidate Starts for Munch_63:
(1, 40166), (5, 40118), (11, 40061), (25, 39938), (29, 39911), (Start: 60 @39842 has 21 MA's), (Start: 66 @39830 has 180 MA's), (111, 39734), (150, 39671), (154, 39662), (160, 39650), (177, 39596), (183, 39578), (201, 39509),

Gene: Mundrea_59 Start: 40096, Stop: 39716, Start Num: 18
Candidate Starts for Mundrea_59:
(Start: 18 @40096 has 171 MA's), (150, 39937), (154, 39928), (183, 39844), (201, 39775),

Gene: Murica_79 Start: 49025, Stop: 49438, Start Num: 64
Candidate Starts for Murica_79:
(Start: 64 @49025 has 154 MA's), (Start: 72 @49040 has 12 MA's), (138, 49187), (183, 49325),

Gene: Murphy_76 Start: 48462, Stop: 48875, Start Num: 64
Candidate Starts for Murphy_76:
(Start: 64 @48462 has 154 MA's), (Start: 72 @48477 has 12 MA's), (138, 48624), (183, 48762),

Gene: MyraDee_63 Start: 37799, Stop: 37377, Start Num: 56
Candidate Starts for MyraDee_63:
(Start: 56 @37799 has 1 MA's), (80, 37754), (150, 37634), (160, 37613), (177, 37559), (183, 37541), (201, 37472), (204, 37460), (227, 37394),

Gene: Myrale_76 Start: 48719, Stop: 49132, Start Num: 64
Candidate Starts for Myrale_76:
(Start: 64 @48719 has 154 MA's), (Start: 72 @48734 has 12 MA's), (138, 48881), (183, 49019),

Gene: Naji_66 Start: 40913, Stop: 40536, Start Num: 66
Candidate Starts for Naji_66:
(23, 41027), (57, 40928), (Start: 66 @40913 has 180 MA's), (Start: 90 @40862 has 4 MA's), (112, 40814), (114, 40811), (150, 40754), (183, 40661), (184, 40658), (201, 40592),

Gene: Nala_78 Start: 48583, Stop: 48996, Start Num: 64
Candidate Starts for Nala_78:
(Start: 64 @48583 has 154 MA's), (Start: 72 @48598 has 12 MA's), (138, 48745), (183, 48883),

Gene: Nanosmite_135 Start: 66876, Stop: 67361, Start Num: 64
Candidate Starts for Nanosmite_135:

(Start: 64 @66876 has 154 MA's), (Start: 98 @66954 has 1 MA's), (121, 66990), (138, 67035), (143, 67053), (183, 67176), (190, 67197), (201, 67245),

Gene: NearlyHeadless_74 Start: 41154, Stop: 40783, Start Num: 66
Candidate Starts for NearlyHeadless_74:
(Start: 53 @41175 has 2 MA's), (Start: 66 @41154 has 180 MA's), (150, 40995), (168, 40962), (183, 40902), (195, 40863), (201, 40833),

Gene: Nebs_62 Start: 40246, Stop: 39866, Start Num: 18
Candidate Starts for Nebs_62:
(Start: 16 @40255 has 8 MA's), (Start: 18 @40246 has 171 MA's), (150, 40087), (151, 40084), (154, 40078), (183, 39994), (201, 39925),

Gene: NelitzaMV_74 Start: 47665, Stop: 48078, Start Num: 64
Candidate Starts for NelitzaMV_74:
(Start: 64 @47665 has 154 MA's), (Start: 72 @47680 has 12 MA's), (138, 47827), (183, 47965),

Gene: Nemo27_60 Start: 40242, Stop: 39862, Start Num: 18
Candidate Starts for Nemo27_60:
(Start: 18 @40242 has 171 MA's), (150, 40083), (154, 40074), (183, 39990), (201, 39921),

Gene: NiceHouse_229 Start: 121776, Stop: 122174, Start Num: 88
Candidate Starts for NiceHouse_229:
(71, 121731), (84, 121770), (Start: 88 @121776 has 1 MA's), (135, 121881), (142, 121911), (162, 121953), (177, 122022), (183, 122040),

Gene: Nimrod_77 Start: 49286, Stop: 49699, Start Num: 64
Candidate Starts for Nimrod_77:
(Start: 64 @49286 has 154 MA's), (Start: 72 @49301 has 12 MA's), (138, 49448), (183, 49586),

Gene: Nirvana_118 Start: 78805, Stop: 78338, Start Num: 72
Candidate Starts for Nirvana_118:
(Start: 72 @78805 has 12 MA's), (83, 78772), (136, 78655), (183, 78508), (192, 78481), (229, 78349),

Gene: NoSleep_77 Start: 47920, Stop: 48333, Start Num: 64
Candidate Starts for NoSleep_77:
(Start: 64 @47920 has 154 MA's), (Start: 72 @47935 has 12 MA's), (138, 48082), (183, 48220),

Gene: Noella_63 Start: 40647, Stop: 40264, Start Num: 18
Candidate Starts for Noella_63:
(Start: 16 @40656 has 8 MA's), (Start: 18 @40647 has 171 MA's), (112, 40551), (150, 40491), (183, 40398), (209, 40299), (211, 40296), (224, 40269),

Gene: Noelle_60 Start: 40405, Stop: 40019, Start Num: 18
Candidate Starts for Noelle_60:
(Start: 18 @40405 has 171 MA's), (150, 40246), (154, 40237), (183, 40153), (184, 40150), (201, 40084),

Gene: NonchalantPear_76 Start: 47773, Stop: 48186, Start Num: 64
Candidate Starts for NonchalantPear_76:
(Start: 64 @47773 has 154 MA's), (Start: 72 @47788 has 12 MA's), (138, 47935), (183, 48073),

Gene: Norbert_60 Start: 40646, Stop: 40263, Start Num: 18

Candidate Starts for Norbert_60:
(Start: 16 @40655 has 8 MA's), (Start: 18 @40646 has 171 MA's), (112, 40550), (150, 40490), (183, 40397), (209, 40298), (211, 40295), (224, 40268),

Gene: NorthStar_59 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for NorthStar_59:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: Northrop_59 Start: 40239, Stop: 39859, Start Num: 18
Candidate Starts for Northrop_59:
(Start: 18 @40239 has 171 MA's), (150, 40080), (154, 40071), (183, 39987), (201, 39918), (202, 39912),

Gene: Norvs_118 Start: 67819, Stop: 68196, Start Num: 66
Candidate Starts for Norvs_118:
(43, 67774), (Start: 66 @67819 has 180 MA's), (93, 67879), (183, 68077), (185, 68086), (186, 68089), (190, 68098), (201, 68146),

Gene: NotAPhaseMom_60 Start: 40247, Stop: 39867, Start Num: 18
Candidate Starts for NotAPhaseMom_60:
(Start: 18 @40247 has 171 MA's), (150, 40088), (154, 40079), (183, 39995), (201, 39926),

Gene: Nova53_233 Start: 121074, Stop: 121556, Start Num: 36
Candidate Starts for Nova53_233:
(Start: 36 @121074 has 3 MA's), (40, 121083), (73, 121140), (125, 121269), (145, 121314), (146, 121317), (170, 121383), (180, 121425), (181, 121428), (183, 121434), (208, 121527), (209, 121533), (217, 121548),

Gene: Nyxis_60 Start: 40133, Stop: 39753, Start Num: 18
Candidate Starts for Nyxis_60:
(Start: 18 @40133 has 171 MA's), (150, 39974), (154, 39965), (183, 39881), (201, 39812), (202, 39806),

Gene: OKaNui_61 Start: 40293, Stop: 39913, Start Num: 18
Candidate Starts for OKaNui_61:
(Start: 18 @40293 has 171 MA's), (150, 40134), (154, 40125), (183, 40041), (201, 39972),

Gene: Obama12_62 Start: 40630, Stop: 40250, Start Num: 18
Candidate Starts for Obama12_62:
(Start: 18 @40630 has 171 MA's), (150, 40471), (154, 40462), (183, 40378), (201, 40309),

Gene: Odin_64 Start: 39580, Stop: 39206, Start Num: 70
Candidate Starts for Odin_64:
(23, 39706), (57, 39604), (Start: 66 @39589 has 180 MA's), (Start: 70 @39580 has 15 MA's), (87, 39541), (Start: 98 @39514 has 1 MA's), (150, 39424), (183, 39331), (190, 39310), (197, 39286), (201, 39262),

Gene: Ohfah_62 Start: 40246, Stop: 39866, Start Num: 18
Candidate Starts for Ohfah_62:
(Start: 16 @40255 has 8 MA's), (Start: 18 @40246 has 171 MA's), (150, 40087), (151, 40084), (154, 40078), (183, 39994), (201, 39925),

Gene: OlanP_66 Start: 41002, Stop: 40583, Start Num: 66
Candidate Starts for OlanP_66:
(10, 41257), (Start: 61 @41011 has 9 MA's), (Start: 66 @41002 has 180 MA's), (Start: 70 @40993 has 15 MA's), (112, 40900), (183, 40747), (201, 40678),

Gene: Ollie_67 Start: 40814, Stop: 40395, Start Num: 66
Candidate Starts for Ollie_67:
(2, 41162), (3, 41159), (6, 41120), (7, 41111), (Start: 61 @40823 has 9 MA's), (Start: 66 @40814 has 180 MA's), (Start: 70 @40805 has 15 MA's), (112, 40712), (183, 40559), (201, 40490),

Gene: Omega_177 Start: 91771, Stop: 92247, Start Num: 39
Candidate Starts for Omega_177:
(Start: 39 @91771 has 1 MA's), (77, 91846), (103, 91915), (108, 91927), (118, 91942), (134, 91978), (138, 91990), (175, 92098), (183, 92128), (184, 92131), (209, 92227),

Gene: OneUp_103 Start: 65646, Stop: 66053, Start Num: 47
Candidate Starts for OneUp_103:
(30, 65583), (Start: 47 @65646 has 1 MA's), (Start: 66 @65676 has 180 MA's), (Start: 90 @65727 has 4 MA's), (96, 65742), (151, 65832), (169, 65877), (183, 65934), (185, 65943), (186, 65946), (214, 66042),

Gene: Orange_62 Start: 39379, Stop: 39005, Start Num: 66
Candidate Starts for Orange_62:
(1, 39715), (5, 39667), (11, 39610), (25, 39487), (Start: 60 @39391 has 21 MA's), (Start: 66 @39379 has 180 MA's), (150, 39220), (154, 39211), (177, 39145), (183, 39127), (201, 39058),

Gene: Orchid_65 Start: 55078, Stop: 54683, Start Num: 86
Candidate Starts for Orchid_65:
(Start: 86 @55078 has 4 MA's), (95, 55063), (177, 54853), (183, 54835), (185, 54826), (201, 54766), (228, 54700), (230, 54691),

Gene: OrionPax_75 Start: 47671, Stop: 48084, Start Num: 64
Candidate Starts for OrionPax_75:
(Start: 64 @47671 has 154 MA's), (Start: 72 @47686 has 12 MA's), (138, 47833), (183, 47971),

Gene: P28Green_68 Start: 40946, Stop: 40527, Start Num: 66
Candidate Starts for P28Green_68:
(2, 41294), (3, 41291), (Start: 61 @40955 has 9 MA's), (Start: 66 @40946 has 180 MA's), (Start: 70 @40937 has 15 MA's), (112, 40844), (183, 40691), (201, 40622),

Gene: PGHhamlin_69 Start: 40935, Stop: 40516, Start Num: 66
Candidate Starts for PGHhamlin_69:
(2, 41283), (3, 41280), (Start: 61 @40944 has 9 MA's), (Start: 66 @40935 has 180 MA's), (Start: 70 @40926 has 15 MA's), (112, 40833), (183, 40680), (201, 40611),

Gene: PP_64 Start: 44619, Stop: 44173, Start Num: 64
Candidate Starts for PP_64:
(51, 44637), (Start: 64 @44619 has 154 MA's), (Start: 102 @44538 has 1 MA's), (183, 44370), (201, 44301), (204, 44289), (226, 44226),

Gene: PYPDinur_85 Start: 55358, Stop: 55720, Start Num: 90
Candidate Starts for PYPDinur_85:

(55, 55292), (Start: 62 @55304 has 7 MA's), (Start: 90 @55358 has 4 MA's), (Start: 98 @55382 has 1 MA's), (112, 55403), (138, 55460), (144, 55481), (176, 55571), (183, 55598), (201, 55667),

Gene: PaddyBaddy_76 Start: 47674, Stop: 48087, Start Num: 64
Candidate Starts for PaddyBaddy_76:
(Start: 64 @47674 has 154 MA's), (Start: 72 @47689 has 12 MA's), (138, 47836), (183, 47974),

Gene: Palestino_60 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Palestino_60:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922),

Gene: Palpatine_78 Start: 49067, Stop: 49465, Start Num: 72
Candidate Starts for Palpatine_78:
(Start: 64 @49052 has 154 MA's), (Start: 72 @49067 has 12 MA's), (138, 49214), (183, 49352),

Gene: Panamaxus_61 Start: 40646, Stop: 40263, Start Num: 18
Candidate Starts for Panamaxus_61:
(Start: 16 @40655 has 8 MA's), (Start: 18 @40646 has 171 MA's), (112, 40550), (150, 40490), (183, 40397), (209, 40298), (211, 40295), (224, 40268),

Gene: Panchaali_55 Start: 22071, Stop: 22361, Start Num: 102
Candidate Starts for Panchaali_55:
(Start: 102 @22071 has 1 MA's), (183, 22230),

Gene: Paperbeatsrock_75 Start: 48297, Stop: 48710, Start Num: 64
Candidate Starts for Paperbeatsrock_75:
(Start: 64 @48297 has 154 MA's), (Start: 72 @48312 has 12 MA's), (138, 48459), (183, 48597),

Gene: Park1214_173 Start: 89343, Stop: 89732, Start Num: 66
Candidate Starts for Park1214_173:
(34, 89289), (Start: 66 @89343 has 180 MA's), (Start: 72 @89355 has 12 MA's), (127, 89460), (131, 89466), (183, 89601), (191, 89625), (203, 89670), (207, 89682), (221, 89715),

Gene: Pat3_74 Start: 46829, Stop: 47242, Start Num: 64
Candidate Starts for Pat3_74:
(Start: 64 @46829 has 154 MA's), (Start: 72 @46844 has 12 MA's), (138, 46991), (183, 47129),

Gene: PatrickStar_66 Start: 55077, Stop: 54682, Start Num: 86
Candidate Starts for PatrickStar_66:
(Start: 86 @55077 has 4 MA's), (95, 55062), (177, 54852), (183, 54834), (185, 54825), (201, 54765), (228, 54699), (230, 54690),

Gene: PauloDiaboli_248 Start: 135825, Stop: 136211, Start Num: 66
Candidate Starts for PauloDiaboli_248:
(Start: 66 @135825 has 180 MA's), (Start: 102 @135912 has 1 MA's), (147, 135996), (177, 136056), (183, 136074), (190, 136095), (209, 136173), (220, 136194),

Gene: Pawn_67 Start: 40833, Stop: 40414, Start Num: 66
Candidate Starts for Pawn_67:
(10, 41088), (21, 40983), (Start: 61 @40842 has 9 MA's), (Start: 66 @40833 has 180 MA's), (Start: 70 @40824 has 15 MA's), (112, 40731), (183, 40578), (201, 40509),

Gene: Peaches_59 Start: 40242, Stop: 39862, Start Num: 18

Candidate Starts for Peaches_59:
(Start: 18 @40242 has 171 MA's), (150, 40083), (154, 40074), (183, 39990), (201, 39921),

Gene: PegLeg_127 Start: 66152, Stop: 66691, Start Num: 42
Candidate Starts for PegLeg_127:
(27, 66092), (Start: 42 @66152 has 1 MA's), (Start: 64 @66194 has 154 MA's), (Start: 70 @66206 has 15 MA's), (Start: 90 @66248 has 4 MA's), (Start: 98 @66272 has 1 MA's), (138, 66365), (143, 66383), (149, 66398), (183, 66506), (190, 66527), (201, 66575),

Gene: Pembroke_67 Start: 40935, Stop: 40525, Start Num: 70
Candidate Starts for Pembroke_67:
(2, 41292), (3, 41289), (Start: 61 @40953 has 9 MA's), (Start: 66 @40944 has 180 MA's), (Start: 70 @40935 has 15 MA's), (112, 40842), (183, 40689), (201, 40620),

Gene: Penny1_67 Start: 40947, Stop: 40528, Start Num: 66
Candidate Starts for Penny1_67:
(2, 41295), (3, 41292), (Start: 61 @40956 has 9 MA's), (Start: 66 @40947 has 180 MA's), (Start: 70 @40938 has 15 MA's), (112, 40845), (183, 40692), (201, 40623),

Gene: Peregrin_54 Start: 20303, Stop: 19884, Start Num: 79
Candidate Starts for Peregrin_54:
(76, 20312), (Start: 79 @20303 has 4 MA's), (109, 20228), (145, 20153), (183, 20033), (202, 19958),

Gene: Perplexer_59 Start: 40080, Stop: 39694, Start Num: 18
Candidate Starts for Perplexer_59:
(Start: 18 @40080 has 171 MA's), (150, 39921), (154, 39912), (183, 39828), (201, 39759),

Gene: PeterPeter_61 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for PeterPeter_61:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919),

Gene: Petersenfast_63 Start: 39378, Stop: 39004, Start Num: 66
Candidate Starts for Petersenfast_63:
(1, 39714), (5, 39666), (11, 39609), (25, 39486), (Start: 60 @39390 has 21 MA's), (Start: 66 @39378 has 180 MA's), (150, 39219), (154, 39210), (177, 39144), (183, 39126), (201, 39057),

Gene: PetiteSangsue_59 Start: 40083, Stop: 39697, Start Num: 18
Candidate Starts for PetiteSangsue_59:
(Start: 18 @40083 has 171 MA's), (150, 39924), (154, 39915), (183, 39831), (201, 39762),

Gene: Petra64142_80 Start: 49516, Stop: 49929, Start Num: 64
Candidate Starts for Petra64142_80:
(Start: 64 @49516 has 154 MA's), (Start: 72 @49531 has 12 MA's), (138, 49678), (183, 49816),

Gene: Ph8s_66 Start: 39754, Stop: 39380, Start Num: 66
Candidate Starts for Ph8s_66:
(23, 39868), (57, 39769), (Start: 66 @39754 has 180 MA's), (Start: 70 @39745 has 15 MA's), (94, 39691), (111, 39658), (150, 39595), (160, 39577), (183, 39505), (198, 39454), (201, 39436),

Gene: Phacado_61 Start: 40242, Stop: 39862, Start Num: 18
Candidate Starts for Phacado_61:
(Start: 18 @40242 has 171 MA's), (150, 40083), (154, 40074), (183, 39990), (201, 39921),

Gene: Phaja_74 Start: 48123, Stop: 48536, Start Num: 64
Candidate Starts for Phaja_74:
(Start: 64 @48123 has 154 MA's), (Start: 72 @48138 has 12 MA's), (138, 48285), (183, 48423),

Gene: Phantastic_65 Start: 40293, Stop: 39901, Start Num: 16
Candidate Starts for Phantastic_65:
(4, 40434), (Start: 16 @40293 has 8 MA's), (Start: 18 @40284 has 171 MA's), (150, 40128), (177, 40053), (183, 40035), (209, 39936),

Gene: Pharsalus_73 Start: 48097, Stop: 48510, Start Num: 64
Candidate Starts for Pharsalus_73:
(Start: 64 @48097 has 154 MA's), (Start: 72 @48112 has 12 MA's), (138, 48259), (183, 48397),

Gene: PhatBacter_80 Start: 49069, Stop: 49482, Start Num: 64
Candidate Starts for PhatBacter_80:
(Start: 64 @49069 has 154 MA's), (Start: 72 @49084 has 12 MA's), (138, 49231), (183, 49369),

Gene: Phaux_78 Start: 49064, Stop: 49477, Start Num: 64
Candidate Starts for Phaux_78:
(Start: 64 @49064 has 154 MA's), (Start: 72 @49079 has 12 MA's), (138, 49226), (183, 49364),

Gene: Phelipe_62 Start: 40246, Stop: 39866, Start Num: 18
Candidate Starts for Phelipe_62:
(Start: 16 @40255 has 8 MA's), (Start: 18 @40246 has 171 MA's), (150, 40087), (151, 40084), (154, 40078), (183, 39994), (201, 39925),

Gene: Phighter1804_61 Start: 40307, Stop: 39927, Start Num: 18
Candidate Starts for Phighter1804_61:
(Start: 18 @40307 has 171 MA's), (150, 40148), (154, 40139), (183, 40055), (201, 39986),

Gene: PhinkBoden_118 Start: 68507, Stop: 68884, Start Num: 66
Candidate Starts for PhinkBoden_118:
(43, 68462), (Start: 66 @68507 has 180 MA's), (93, 68567), (183, 68765), (185, 68774), (186, 68777), (190, 68786), (201, 68834), (209, 68864),

Gene: PhishRPhriends_65 Start: 40010, Stop: 39591, Start Num: 66
Candidate Starts for PhishRPhriends_65:
(10, 40265), (Start: 61 @40019 has 9 MA's), (Start: 66 @40010 has 180 MA's), (Start: 70 @40001 has 15 MA's), (112, 39908), (183, 39755), (201, 39686),

Gene: Phoebe_68 Start: 40936, Stop: 40517, Start Num: 66
Candidate Starts for Phoebe_68:
(2, 41284), (3, 41281), (Start: 61 @40945 has 9 MA's), (Start: 66 @40936 has 180 MA's), (Start: 70 @40927 has 15 MA's), (112, 40834), (183, 40681), (201, 40612),

Gene: Phontbonne_61 Start: 40149, Stop: 39769, Start Num: 18
Candidate Starts for Phontbonne_61:
(Start: 18 @40149 has 171 MA's), (150, 39990), (151, 39987), (154, 39981), (183, 39897), (201, 39828),

Gene: Phoxy_67 Start: 40968, Stop: 40549, Start Num: 66
Candidate Starts for Phoxy_67:

(2, 41316), (3, 41313), (Start: 61 @40977 has 9 MA's), (Start: 66 @40968 has 180 MA's), (Start: 70 @40959 has 15 MA's), (112, 40866), (183, 40713), (201, 40644),

Gene: Phranny_68 Start: 40815, Stop: 40396, Start Num: 66
Candidate Starts for Phranny_68:
(10, 41070), (Start: 61 @40824 has 9 MA's), (Start: 66 @40815 has 180 MA's), (Start: 70 @40806 has 15 MA's), (112, 40713), (183, 40560), (201, 40491),

Gene: Phrappuccino_141 Start: 99435, Stop: 99845, Start Num: 60
Candidate Starts for Phrappuccino_141:
(8, 99213), (Start: 60 @99435 has 21 MA's), (Start: 70 @99456 has 15 MA's), (112, 99555), (150, 99615), (153, 99621), (167, 99639), (183, 99702), (190, 99723), (201, 99780),

Gene: Phrux_73 Start: 47660, Stop: 48073, Start Num: 64
Candidate Starts for Phrux_73:
(Start: 64 @47660 has 154 MA's), (Start: 72 @47675 has 12 MA's), (138, 47822), (183, 47960),

Gene: Pipcraft_58 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Pipcraft_58:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: Pistachio_64 Start: 40216, Stop: 39833, Start Num: 18
Candidate Starts for Pistachio_64:
(4, 40366), (Start: 16 @40225 has 8 MA's), (Start: 18 @40216 has 171 MA's), (150, 40060), (167, 40033), (177, 39985), (183, 39967), (209, 39868), (224, 39838),

Gene: Pocahontas_63 Start: 40643, Stop: 40260, Start Num: 18
Candidate Starts for Pocahontas_63:
(Start: 16 @40652 has 8 MA's), (Start: 18 @40643 has 171 MA's), (112, 40547), (150, 40487), (183, 40394), (209, 40295), (211, 40292), (224, 40265),

Gene: Poise_74 Start: 40595, Stop: 41086, Start Num: 60
Candidate Starts for Poise_74:
(Start: 60 @40595 has 21 MA's), (132, 40742), (183, 40898), (184, 40901), (195, 40937), (201, 40967), (211, 41000),

Gene: Policronamos_79 Start: 49064, Stop: 49477, Start Num: 64
Candidate Starts for Policronamos_79:
(Start: 64 @49064 has 154 MA's), (Start: 72 @49079 has 12 MA's), (138, 49226), (183, 49364),

Gene: Polymorphads_62 Start: 40236, Stop: 39856, Start Num: 18
Candidate Starts for Polymorphads_62:
(Start: 18 @40236 has 171 MA's), (150, 40077), (154, 40068), (183, 39984), (201, 39915), (202, 39909),

Gene: Pomar16_65 Start: 40953, Stop: 40576, Start Num: 66
Candidate Starts for Pomar16_65:
(23, 41067), (57, 40968), (Start: 66 @40953 has 180 MA's), (Start: 90 @40902 has 4 MA's), (112, 40854), (114, 40851), (150, 40794), (183, 40701), (184, 40698), (201, 40632),

Gene: Poochiewood_83 Start: 55082, Stop: 55444, Start Num: 90
Candidate Starts for Poochiewood_83:

(Start: 66 @55031 has 180 MA's), (Start: 90 @55082 has 4 MA's), (Start: 92 @55088 has 1 MA's), (183, 55322), (190, 55343), (192, 55349), (201, 55391),

Gene: Popcicle_63 Start: 40643, Stop: 40260, Start Num: 18
Candidate Starts for Popcicle_63:
(Start: 16 @40652 has 8 MA's), (Start: 18 @40643 has 171 MA's), (112, 40547), (150, 40487), (183, 40394), (209, 40295), (211, 40292), (224, 40265),

Gene: Porky_75 Start: 47490, Stop: 47903, Start Num: 64
Candidate Starts for Porky_75:
(Start: 64 @47490 has 154 MA's), (Start: 72 @47505 has 12 MA's), (138, 47652), (183, 47790),

Gene: PotatoSplit_68 Start: 40947, Stop: 40528, Start Num: 66
Candidate Starts for PotatoSplit_68:
(2, 41295), (3, 41292), (Start: 61 @40956 has 9 MA's), (Start: 66 @40947 has 180 MA's), (Start: 70 @40938 has 15 MA's), (112, 40845), (183, 40692), (201, 40623),

Gene: Ptowny_73 Start: 46959, Stop: 47372, Start Num: 64
Candidate Starts for Ptowny_73:
(Start: 64 @46959 has 154 MA's), (Start: 72 @46974 has 12 MA's), (138, 47121), (183, 47259),

Gene: Pumbaa_61 Start: 40188, Stop: 39808, Start Num: 18
Candidate Starts for Pumbaa_61:
(Start: 18 @40188 has 171 MA's), (150, 40029), (154, 40020), (183, 39936), (201, 39867),

Gene: Pumpkin_79 Start: 48718, Stop: 49131, Start Num: 64
Candidate Starts for Pumpkin_79:
(Start: 64 @48718 has 154 MA's), (Start: 72 @48733 has 12 MA's), (138, 48880), (183, 49018),

Gene: Puppy_64 Start: 40288, Stop: 39905, Start Num: 18
Candidate Starts for Puppy_64:
(4, 40438), (Start: 16 @40297 has 8 MA's), (Start: 18 @40288 has 171 MA's), (150, 40132), (167, 40105), (177, 40057), (183, 40039), (209, 39940), (224, 39910),

Gene: PurpleHaze_67 Start: 40828, Stop: 40409, Start Num: 66
Candidate Starts for PurpleHaze_67:
(Start: 61 @40837 has 9 MA's), (Start: 66 @40828 has 180 MA's), (Start: 70 @40819 has 15 MA's), (112, 40726), (183, 40573), (201, 40504),

Gene: Quallification_77 Start: 48705, Stop: 49118, Start Num: 64
Candidate Starts for Quallification_77:
(Start: 64 @48705 has 154 MA's), (Start: 72 @48720 has 12 MA's), (138, 48867), (183, 49005),

Gene: Quantum_112 Start: 75438, Stop: 74971, Start Num: 72
Candidate Starts for Quantum_112:
(50, 75474), (Start: 72 @75438 has 12 MA's), (81, 75411), (97, 75372), (112, 75336), (136, 75288), (182, 75144), (183, 75141), (212, 75033), (229, 74982),

Gene: Quby_86 Start: 54686, Stop: 55048, Start Num: 90
Candidate Starts for Quby_86:
(55, 54620), (Start: 62 @54632 has 7 MA's), (Start: 90 @54686 has 4 MA's), (Start: 98 @54710 has 1 MA's), (112, 54731), (138, 54788), (144, 54809), (176, 54899), (183, 54926), (195, 54965), (201, 54995),

Gene: QuinnKiro_62 Start: 40646, Stop: 40263, Start Num: 18
Candidate Starts for QuinnKiro_62:
(Start: 16 @40655 has 8 MA's), (Start: 18 @40646 has 171 MA's), (112, 40550), (150, 40490), (183, 40397), (209, 40298), (211, 40295), (224, 40268),

Gene: Quokka_64 Start: 39806, Stop: 39429, Start Num: 66
Candidate Starts for Quokka_64:
(23, 39920), (57, 39821), (Start: 66 @39806 has 180 MA's), (Start: 72 @39794 has 12 MA's), (94, 39743), (150, 39647), (183, 39554), (201, 39485),

Gene: Raela_74 Start: 41152, Stop: 41643, Start Num: 60
Candidate Starts for Raela_74:
(Start: 60 @41152 has 21 MA's), (132, 41299), (183, 41455), (184, 41458), (195, 41494), (201, 41524), (211, 41557),

Gene: Rakim_77 Start: 48174, Stop: 48587, Start Num: 64
Candidate Starts for Rakim_77:
(Start: 64 @48174 has 154 MA's), (Start: 72 @48189 has 12 MA's), (138, 48336), (183, 48474),

Gene: Reba_67 Start: 40488, Stop: 40069, Start Num: 66
Candidate Starts for Reba_67:
(10, 40743), (Start: 61 @40497 has 9 MA's), (Start: 66 @40488 has 180 MA's), (Start: 70 @40479 has 15 MA's), (112, 40386), (183, 40233), (201, 40164),

Gene: RedRaider77_73 Start: 40540, Stop: 41031, Start Num: 60
Candidate Starts for RedRaider77_73:
(Start: 60 @40540 has 21 MA's), (132, 40687), (183, 40843), (184, 40846), (195, 40882), (201, 40912), (211, 40945),

Gene: ReginaGlobina_62 Start: 25464, Stop: 25847, Start Num: 62
Candidate Starts for ReginaGlobina_62:
(13, 25248), (Start: 62 @25464 has 7 MA's), (183, 25716),

Gene: Reindeer_128 Start: 67626, Stop: 68123, Start Num: 64
Candidate Starts for Reindeer_128:
(Start: 64 @67626 has 154 MA's), (Start: 90 @67680 has 4 MA's), (Start: 92 @67686 has 1 MA's), (Start: 98 @67704 has 1 MA's), (114, 67740), (138, 67797), (143, 67815), (149, 67830), (178, 67923), (183, 67938), (190, 67959), (192, 67965), (201, 68007),

Gene: Relief_60 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for Relief_60:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919),

Gene: ResDef_62 Start: 40646, Stop: 40263, Start Num: 18
Candidate Starts for ResDef_62:
(Start: 16 @40655 has 8 MA's), (Start: 18 @40646 has 171 MA's), (112, 40550), (150, 40490), (183, 40397), (209, 40298), (211, 40295), (224, 40268),

Gene: Rey_142 Start: 66571, Stop: 67056, Start Num: 64
Candidate Starts for Rey_142:
(17, 66394), (26, 66466), (28, 66475), (32, 66499), (33, 66502), (Start: 64 @66571 has 154 MA's), (121, 66685), (138, 66730), (143, 66748), (183, 66871), (190, 66892), (201, 66940), (209, 66970),

(229, 67027),

Gene: Reynauld_80 Start: 64338, Stop: 63856, Start Num: 62
Candidate Starts for Reynauld_80:
(35, 64383), (Start: 39 @64374 has 1 MA's), (59, 64344), (Start: 61 @64341 has 9 MA's), (Start: 62 @64338 has 7 MA's), (74, 64317), (112, 64224), (116, 64218), (149, 64137), (188, 64020), (196, 63996), (206, 63945), (232, 63861),

Gene: Rimmer_77 Start: 48410, Stop: 48823, Start Num: 64
Candidate Starts for Rimmer_77:
(Start: 64 @48410 has 154 MA's), (Start: 72 @48425 has 12 MA's), (138, 48572), (183, 48710),

Gene: RiverMonster_76 Start: 48238, Stop: 48651, Start Num: 64
Candidate Starts for RiverMonster_76:
(Start: 64 @48238 has 154 MA's), (Start: 72 @48253 has 12 MA's), (138, 48400), (183, 48538),

Gene: Roary_75 Start: 41394, Stop: 41002, Start Num: 53
Candidate Starts for Roary_75:
(Start: 53 @41394 has 2 MA's), (Start: 66 @41373 has 180 MA's), (150, 41214), (168, 41181), (183, 41121), (195, 41082), (201, 41052),

Gene: RockieBear_61 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for RockieBear_61:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: Rocksand_59 Start: 40239, Stop: 39859, Start Num: 18
Candidate Starts for Rocksand_59:
(Start: 18 @40239 has 171 MA's), (150, 40080), (154, 40071), (183, 39987), (201, 39918), (202, 39912),

Gene: Rockstar_62 Start: 40119, Stop: 39727, Start Num: 16
Candidate Starts for Rockstar_62:
(Start: 16 @40119 has 8 MA's), (Start: 18 @40110 has 171 MA's), (150, 39954), (177, 39879), (183, 39861), (201, 39792), (209, 39762), (218, 39744),

Gene: Roimos_62 Start: 40492, Stop: 40109, Start Num: 18
Candidate Starts for Roimos_62:
(4, 40642), (Start: 16 @40501 has 8 MA's), (Start: 18 @40492 has 171 MA's), (150, 40336), (177, 40261), (183, 40243), (209, 40144),

Gene: Romney_60 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for Romney_60:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919), (202, 39913),

Gene: Roosevelt_59 Start: 40245, Stop: 39865, Start Num: 18
Candidate Starts for Roosevelt_59:
(Start: 18 @40245 has 171 MA's), (150, 40086), (154, 40077), (183, 39993), (201, 39924), (202, 39918),

Gene: Rosa24_59 Start: 40274, Stop: 39894, Start Num: 18
Candidate Starts for Rosa24_59:

(Start: 18 @40274 has 171 MA's), (150, 40115), (154, 40106), (183, 40022), (201, 39953),

Gene: Rose5_86 Start: 54868, Stop: 55281, Start Num: 66
Candidate Starts for Rose5_86:
(Start: 66 @54868 has 180 MA's), (Start: 90 @54919 has 4 MA's), (Start: 92 @54925 has 1 MA's), (183, 55159), (190, 55180), (192, 55186), (201, 55228),

Gene: RoseMarie_134 Start: 69165, Stop: 69662, Start Num: 64
Candidate Starts for RoseMarie_134:
(27, 69063), (Start: 42 @69123 has 1 MA's), (45, 69132), (Start: 64 @69165 has 154 MA's), (Start: 70 @69177 has 15 MA's), (Start: 90 @69219 has 4 MA's), (Start: 98 @69243 has 1 MA's), (112, 69276), (138, 69336), (143, 69354), (149, 69369), (183, 69477), (190, 69498), (201, 69546), (229, 69633),

Gene: Ruin_61 Start: 40236, Stop: 39856, Start Num: 18
Candidate Starts for Ruin_61:
(Start: 18 @40236 has 171 MA's), (150, 40077), (154, 40068), (183, 39984), (201, 39915), (202, 39909),

Gene: Rummer_66 Start: 40962, Stop: 40552, Start Num: 70
Candidate Starts for Rummer_66:
(2, 41319), (3, 41316), (6, 41277), (7, 41268), (Start: 61 @40980 has 9 MA's), (Start: 66 @40971 has 180 MA's), (Start: 70 @40962 has 15 MA's), (112, 40869), (183, 40716), (201, 40647),

Gene: RunningOnE_11 Start: 4851, Stop: 4486, Start Num: 89
Candidate Starts for RunningOnE_11:
(54, 4929), (82, 4863), (Start: 89 @4851 has 1 MA's), (97, 4833), (183, 4602), (209, 4503), (212, 4497),

Gene: Sabertooth_61 Start: 40245, Stop: 39865, Start Num: 18
Candidate Starts for Sabertooth_61:
(Start: 18 @40245 has 171 MA's), (150, 40086), (154, 40077), (183, 39993), (201, 39924), (202, 39918),

Gene: Sabia_67 Start: 40943, Stop: 40533, Start Num: 70
Candidate Starts for Sabia_67:
(2, 41300), (3, 41297), (Start: 61 @40961 has 9 MA's), (Start: 66 @40952 has 180 MA's), (Start: 70 @40943 has 15 MA's), (112, 40850), (183, 40697), (201, 40628),

Gene: Sabinator_65 Start: 40942, Stop: 40523, Start Num: 66
Candidate Starts for Sabinator_65:
(2, 41290), (3, 41287), (Start: 61 @40951 has 9 MA's), (Start: 66 @40942 has 180 MA's), (Start: 70 @40933 has 15 MA's), (112, 40840), (183, 40687), (201, 40618),

Gene: Saints25_75 Start: 47648, Stop: 48061, Start Num: 64
Candidate Starts for Saints25_75:
(Start: 64 @47648 has 154 MA's), (Start: 72 @47663 has 12 MA's), (138, 47810), (183, 47948),

Gene: Saintus_69 Start: 38038, Stop: 37667, Start Num: 66
Candidate Starts for Saintus_69:
(Start: 53 @38059 has 2 MA's), (Start: 66 @38038 has 180 MA's), (150, 37879), (168, 37846), (182, 37789), (183, 37786), (201, 37717),

Gene: Salz_62 Start: 39349, Stop: 38975, Start Num: 66
Candidate Starts for Salz_62:

(1, 39685), (5, 39637), (11, 39580), (25, 39457), (29, 39430), (Start: 60 @39361 has 21 MA's), (Start: 66 @39349 has 180 MA's), (111, 39253), (150, 39190), (154, 39181), (160, 39169), (177, 39115), (183, 39097), (201, 39028),

Gene: Sarkar_113 Start: 75438, Stop: 74971, Start Num: 72
Candidate Starts for Sarkar_113:
(50, 75474), (Start: 72 @75438 has 12 MA's), (81, 75411), (97, 75372), (112, 75336), (136, 75288), (182, 75144), (183, 75141), (212, 75033), (229, 74982),

Gene: Saskia_64 Start: 39377, Stop: 39003, Start Num: 66
Candidate Starts for Saskia_64:
(1, 39713), (5, 39665), (11, 39608), (25, 39485), (29, 39458), (Start: 60 @39389 has 21 MA's), (Start: 66 @39377 has 180 MA's), (150, 39218), (154, 39209), (177, 39143), (183, 39125), (201, 39056),

Gene: Sassay_71 Start: 46338, Stop: 46751, Start Num: 64
Candidate Starts for Sassay_71:
(Start: 64 @46338 has 154 MA's), (Start: 72 @46353 has 12 MA's), (138, 46500), (183, 46638),

Gene: Satis_113 Start: 75434, Stop: 74967, Start Num: 72
Candidate Starts for Satis_113:
(50, 75470), (Start: 72 @75434 has 12 MA's), (81, 75407), (97, 75368), (112, 75332), (136, 75284), (182, 75140), (183, 75137), (212, 75029), (229, 74978),

Gene: SaturnRing_64 Start: 40669, Stop: 40286, Start Num: 18
Candidate Starts for SaturnRing_64:
(4, 40819), (Start: 16 @40678 has 8 MA's), (Start: 18 @40669 has 171 MA's), (150, 40513), (167, 40486), (177, 40438), (183, 40420), (209, 40321), (224, 40291),

Gene: Scamp_61 Start: 40245, Stop: 39865, Start Num: 18
Candidate Starts for Scamp_61:
(Start: 18 @40245 has 171 MA's), (150, 40086), (154, 40077), (183, 39993), (201, 39924), (202, 39918),

Gene: Scout_63 Start: 39823, Stop: 39440, Start Num: 18
Candidate Starts for Scout_63:
(4, 39973), (Start: 16 @39832 has 8 MA's), (Start: 18 @39823 has 171 MA's), (150, 39667), (177, 39592), (183, 39574), (209, 39475),

Gene: SenorClean_61 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for SenorClean_61:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: Serenity_65 Start: 39936, Stop: 39559, Start Num: 66
Candidate Starts for Serenity_65:
(57, 39951), (Start: 66 @39936 has 180 MA's), (150, 39777), (183, 39684), (192, 39657), (197, 39639), (201, 39615),

Gene: Settecandela_141 Start: 99435, Stop: 99845, Start Num: 60
Candidate Starts for Settecandela_141:
(8, 99213), (Start: 60 @99435 has 21 MA's), (Start: 70 @99456 has 15 MA's), (112, 99555), (150, 99615), (153, 99621), (167, 99639), (183, 99702), (190, 99723), (201, 99780),

Gene: Shaka_59 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for Shaka_59:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919),

Gene: Sham4_63 Start: 39389, Stop: 39003, Start Num: 60
Candidate Starts for Sham4_63:
(1, 39713), (5, 39665), (11, 39608), (25, 39485), (Start: 60 @39389 has 21 MA's), (Start: 66 @39377 has 180 MA's), (150, 39218), (154, 39209), (177, 39143), (183, 39125), (201, 39056),

Gene: ShamWow_76 Start: 48560, Stop: 48973, Start Num: 64
Candidate Starts for ShamWow_76:
(Start: 64 @48560 has 154 MA's), (Start: 72 @48575 has 12 MA's), (138, 48722), (183, 48860),

Gene: Sheen_63 Start: 43521, Stop: 43072, Start Num: 66
Candidate Starts for Sheen_63:
(12, 43725), (Start: 66 @43521 has 180 MA's), (94, 43458), (150, 43362), (154, 43353), (183, 43269), (195, 43230), (201, 43200), (233, 43089),

Gene: SheldonCooper_61 Start: 40647, Stop: 40267, Start Num: 18
Candidate Starts for SheldonCooper_61:
(Start: 18 @40647 has 171 MA's), (150, 40488), (154, 40479), (183, 40395), (201, 40326),

Gene: Sheng711_86 Start: 54858, Stop: 55196, Start Num: 98
Candidate Starts for Sheng711_86:
(55, 54768), (Start: 58 @54771 has 1 MA's), (Start: 62 @54780 has 7 MA's), (Start: 98 @54858 has 1 MA's), (112, 54879), (138, 54936), (144, 54957), (176, 55047), (183, 55074), (195, 55113), (201, 55143),

Gene: Shep_62 Start: 39582, Stop: 39190, Start Num: 16
Candidate Starts for Shep_62:
(4, 39723), (Start: 16 @39582 has 8 MA's), (Start: 18 @39573 has 171 MA's), (150, 39417), (177, 39342), (183, 39324), (209, 39225),

Gene: Shygu2_59 Start: 40134, Stop: 39754, Start Num: 18
Candidate Starts for Shygu2_59:
(Start: 18 @40134 has 171 MA's), (150, 39975), (154, 39966), (183, 39882), (201, 39813),

Gene: Silverleaf_85 Start: 54367, Stop: 54780, Start Num: 66
Candidate Starts for Silverleaf_85:
(Start: 66 @54367 has 180 MA's), (138, 54520), (183, 54658), (190, 54679), (192, 54685), (201, 54727),

Gene: Simpliphy_75 Start: 47638, Stop: 48051, Start Num: 64
Candidate Starts for Simpliphy_75:
(Start: 64 @47638 has 154 MA's), (Start: 72 @47653 has 12 MA's), (138, 47800), (183, 47938),

Gene: SirDuracell_75 Start: 46924, Stop: 47337, Start Num: 64
Candidate Starts for SirDuracell_75:
(Start: 64 @46924 has 154 MA's), (Start: 72 @46939 has 12 MA's), (148, 47116), (183, 47224), (192, 47251),

Gene: Sixama_169 Start: 96671, Stop: 96312, Start Num: 99
Candidate Starts for Sixama_169:

(Start: 99 @96671 has 5 MA's), (120, 96629), (168, 96497), (183, 96437), (185, 96428), (190, 96416), (195, 96398), (215, 96326),

Gene: Skadoosh_60 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for Skadoosh_60:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919), (202, 39913),

Gene: Skinny_130 Start: 67311, Stop: 67808, Start Num: 64
Candidate Starts for Skinny_130:
(27, 67209), (Start: 42 @67269 has 1 MA's), (Start: 64 @67311 has 154 MA's), (Start: 70 @67323 has 15 MA's), (Start: 90 @67365 has 4 MA's), (Start: 98 @67389 has 1 MA's), (143, 67500), (149, 67515), (183, 67623), (190, 67644), (201, 67692),

Gene: Skipitt_60 Start: 40237, Stop: 39857, Start Num: 18
Candidate Starts for Skipitt_60:
(Start: 18 @40237 has 171 MA's), (150, 40078), (154, 40069), (183, 39985), (201, 39916), (202, 39910),

Gene: SlimJimmy_123 Start: 66020, Stop: 66517, Start Num: 64
Candidate Starts for SlimJimmy_123:
(Start: 42 @65978 has 1 MA's), (Start: 64 @66020 has 154 MA's), (Start: 90 @66074 has 4 MA's), (Start: 98 @66098 has 1 MA's), (143, 66209), (149, 66224), (183, 66332), (190, 66353), (201, 66401),

Gene: Smeadley_74 Start: 41234, Stop: 40863, Start Num: 66
Candidate Starts for Smeadley_74:
(Start: 53 @41255 has 2 MA's), (Start: 66 @41234 has 180 MA's), (150, 41075), (168, 41042), (182, 40985), (183, 40982), (195, 40943), (201, 40913),

Gene: Smoothie_119 Start: 68218, Stop: 68595, Start Num: 66
Candidate Starts for Smoothie_119:
(43, 68173), (Start: 66 @68218 has 180 MA's), (93, 68278), (183, 68476), (185, 68485), (186, 68488), (190, 68497), (201, 68545), (209, 68575),

Gene: Snape_63 Start: 39369, Stop: 38995, Start Num: 66
Candidate Starts for Snape_63:
(1, 39705), (5, 39657), (11, 39600), (25, 39477), (Start: 60 @39381 has 21 MA's), (Start: 66 @39369 has 180 MA's), (150, 39210), (154, 39201), (177, 39135), (183, 39117), (201, 39048),

Gene: Snickers_67 Start: 40917, Stop: 40498, Start Num: 66
Candidate Starts for Snickers_67:
(2, 41265), (3, 41262), (Start: 61 @40926 has 9 MA's), (Start: 66 @40917 has 180 MA's), (Start: 70 @40908 has 15 MA's), (112, 40815), (183, 40662), (201, 40593),

Gene: SoJulia_89 Start: 57296, Stop: 57712, Start Num: 62
Candidate Starts for SoJulia_89:
(Start: 58 @57287 has 1 MA's), (Start: 62 @57296 has 7 MA's), (94, 57362), (Start: 98 @57374 has 1 MA's), (112, 57395), (138, 57452), (144, 57473), (176, 57563), (183, 57590), (201, 57659),

Gene: SoYo_66 Start: 40855, Stop: 40436, Start Num: 66
Candidate Starts for SoYo_66:
(2, 41203), (3, 41200), (Start: 61 @40864 has 9 MA's), (Start: 66 @40855 has 180 MA's), (Start: 70 @40846 has 15 MA's), (112, 40753), (183, 40600), (201, 40531),

Gene: SoilDragon_67 Start: 40391, Stop: 39972, Start Num: 66
Candidate Starts for SoilDragon_67:
(2, 40739), (3, 40736), (6, 40697), (Start: 61 @40400 has 9 MA's), (Start: 66 @40391 has 180 MA's), (Start: 70 @40382 has 15 MA's), (112, 40289), (183, 40136), (201, 40067),

Gene: SophKB_73 Start: 47316, Stop: 47729, Start Num: 64
Candidate Starts for SophKB_73:
(Start: 64 @47316 has 154 MA's), (Start: 72 @47331 has 12 MA's), (138, 47478), (183, 47616),

Gene: Soshari_69 Start: 40967, Stop: 40548, Start Num: 66
Candidate Starts for Soshari_69:
(2, 41315), (3, 41312), (6, 41273), (Start: 61 @40976 has 9 MA's), (Start: 66 @40967 has 180 MA's), (Start: 70 @40958 has 15 MA's), (112, 40865), (183, 40712), (201, 40643), (227, 40565),

Gene: Sotrice96_77 Start: 48319, Stop: 48732, Start Num: 64
Candidate Starts for Sotrice96_77:
(Start: 64 @48319 has 154 MA's), (Start: 72 @48334 has 12 MA's), (138, 48481), (183, 48619),

Gene: Sparky_77 Start: 53247, Stop: 53657, Start Num: 61
Candidate Starts for Sparky_77:
(Start: 61 @53247 has 9 MA's), (Start: 66 @53256 has 180 MA's), (122, 53376), (158, 53448), (174, 53475), (189, 53529), (216, 53610), (219, 53616),

Gene: Sparxx_62 Start: 40238, Stop: 39858, Start Num: 18
Candidate Starts for Sparxx_62:
(Start: 18 @40238 has 171 MA's), (150, 40079), (154, 40070), (183, 39986), (201, 39917), (202, 39911),

Gene: SpeedDemon_560 Start: 46149, Stop: 46541, Start Num: 69
Candidate Starts for SpeedDemon_560:
(68, 46146), (Start: 69 @46149 has 2 MA's), (182, 46407), (183, 46410),

Gene: Spike509_67 Start: 40968, Stop: 40549, Start Num: 66
Candidate Starts for Spike509_67:
(2, 41316), (3, 41313), (Start: 61 @40977 has 9 MA's), (Start: 66 @40968 has 180 MA's), (Start: 70 @40959 has 15 MA's), (112, 40866), (183, 40713), (201, 40644),

Gene: Spino_60 Start: 40246, Stop: 39866, Start Num: 18
Candidate Starts for Spino_60:
(Start: 18 @40246 has 171 MA's), (150, 40087), (154, 40078), (183, 39994), (201, 39925), (202, 39919),

Gene: Spooks_16 Start: 10305, Stop: 9985, Start Num: 90
Candidate Starts for Spooks_16:
(Start: 90 @10305 has 4 MA's), (97, 10284), (111, 10251), (141, 10209), (152, 10179), (183, 10107), (200, 10044), (221, 9990),

Gene: Srilaccoli3_77 Start: 63194, Stop: 62712, Start Num: 62
Candidate Starts for Srilaccoli3_77:
(9, 63443), (Start: 60 @63200 has 21 MA's), (Start: 61 @63197 has 9 MA's), (Start: 62 @63194 has 7 MA's), (74, 63173), (112, 63080), (116, 63074), (149, 62993), (159, 62975), (179, 62903), (188, 62876), (196, 62852), (206, 62801), (232, 62717),

Gene: StAugustine_176 Start: 97616, Stop: 97128, Start Num: 61
Candidate Starts for StAugustine_176:
(15, 97802), (Start: 61 @97616 has 9 MA's), (Start: 92 @97547 has 1 MA's), (101, 97520), (115, 97493), (126, 97466), (130, 97460), (140, 97439), (152, 97406), (158, 97394), (163, 97379), (164, 97376), (171, 97352), (178, 97322), (193, 97277),

Gene: Stagni_66 Start: 40937, Stop: 40527, Start Num: 70
Candidate Starts for Stagni_66:
(2, 41294), (3, 41291), (6, 41252), (Start: 61 @40955 has 9 MA's), (Start: 66 @40946 has 180 MA's), (Start: 70 @40937 has 15 MA's), (112, 40844), (183, 40691), (201, 40622),

Gene: Stank_79 Start: 48577, Stop: 48990, Start Num: 64
Candidate Starts for Stank_79:
(Start: 64 @48577 has 154 MA's), (Start: 72 @48592 has 12 MA's), (138, 48739), (183, 48877),

Gene: StarStuff_66 Start: 40915, Stop: 40538, Start Num: 66
Candidate Starts for StarStuff_66:
(23, 41029), (Start: 66 @40915 has 180 MA's), (Start: 90 @40864 has 4 MA's), (94, 40852), (112, 40816), (114, 40813), (150, 40756), (183, 40663), (184, 40660), (201, 40594),

Gene: Stark_77 Start: 48121, Stop: 48534, Start Num: 64
Candidate Starts for Stark_77:
(Start: 64 @48121 has 154 MA's), (Start: 72 @48136 has 12 MA's), (138, 48283), (183, 48421),

Gene: Stasia_59 Start: 40011, Stop: 39631, Start Num: 18
Candidate Starts for Stasia_59:
(Start: 18 @40011 has 171 MA's), (Start: 98 @39936 has 1 MA's), (150, 39852), (154, 39843), (183, 39759), (201, 39690), (202, 39684),

Gene: SteMason_60 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for SteMason_60:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919), (202, 39913),

Gene: StellaBean_74 Start: 47884, Stop: 48297, Start Num: 64
Candidate Starts for StellaBean_74:
(Start: 64 @47884 has 154 MA's), (Start: 72 @47899 has 12 MA's), (138, 48046), (183, 48184),

Gene: StepMih_66 Start: 40928, Stop: 40518, Start Num: 70
Candidate Starts for StepMih_66:
(2, 41285), (3, 41282), (6, 41243), (7, 41234), (Start: 61 @40946 has 9 MA's), (Start: 66 @40937 has 180 MA's), (Start: 70 @40928 has 15 MA's), (112, 40835), (183, 40682), (201, 40613),

Gene: Stephig9_73 Start: 41171, Stop: 40800, Start Num: 66
Candidate Starts for Stephig9_73:
(Start: 53 @41192 has 2 MA's), (Start: 66 @41171 has 180 MA's), (150, 41012), (168, 40979), (182, 40922), (183, 40919), (195, 40880), (201, 40850),

Gene: Stewart25555_54 Start: 22712, Stop: 23080, Start Num: 67
Candidate Starts for Stewart25555_54:
(Start: 67 @22712 has 10 MA's), (Start: 102 @22793 has 1 MA's), (183, 22952),

Gene: Stink_58 Start: 39812, Stop: 39426, Start Num: 18
Candidate Starts for Stink_58:
(Start: 18 @39812 has 171 MA's), (150, 39653), (154, 39644), (183, 39560), (201, 39491),

Gene: StolenFromERC_79 Start: 48359, Stop: 48772, Start Num: 64
Candidate Starts for StolenFromERC_79:
(Start: 64 @48359 has 154 MA's), (Start: 72 @48374 has 12 MA's), (138, 48521), (183, 48659),

Gene: StormChicken_78 Start: 49017, Stop: 49430, Start Num: 64
Candidate Starts for StormChicken_78:
(Start: 64 @49017 has 154 MA's), (Start: 72 @49032 has 12 MA's), (138, 49179), (183, 49317),

Gene: Success_16 Start: 9522, Stop: 9202, Start Num: 90
Candidate Starts for Success_16:
(Start: 90 @9522 has 4 MA's), (97, 9501), (141, 9426), (152, 9396), (183, 9324), (200, 9261), (221, 9207),

Gene: Sultana_61 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for Sultana_61:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922),

Gene: Superchunk_64 Start: 39205, Stop: 38822, Start Num: 66
Candidate Starts for Superchunk_64:
(23, 39319), (57, 39220), (Start: 66 @39205 has 180 MA's), (87, 39157), (114, 39103), (150, 39040), (183, 38947), (190, 38926), (201, 38878),

Gene: SwirlSquare_69 Start: 40121, Stop: 39744, Start Num: 66
Candidate Starts for SwirlSquare_69:
(23, 40235), (Start: 66 @40121 has 180 MA's), (Start: 70 @40112 has 15 MA's), (111, 40025), (150, 39962), (157, 39947), (168, 39929), (183, 39869), (198, 39818), (201, 39800),

Gene: TBrady12_79 Start: 48058, Stop: 48471, Start Num: 64
Candidate Starts for TBrady12_79:
(Start: 64 @48058 has 154 MA's), (Start: 72 @48073 has 12 MA's), (138, 48220), (183, 48358),

Gene: TNguyen7_65 Start: 40635, Stop: 40252, Start Num: 18
Candidate Starts for TNguyen7_65:
(4, 40785), (Start: 16 @40644 has 8 MA's), (Start: 18 @40635 has 171 MA's), (150, 40479), (167, 40452), (177, 40404), (183, 40386), (209, 40287), (224, 40257),

Gene: TPA4_57 Start: 41159, Stop: 41554, Start Num: 67
Candidate Starts for TPA4_57:
(Start: 67 @41159 has 10 MA's), (133, 41264), (160, 41336), (163, 41348), (183, 41420), (190, 41441), (201, 41489), (222, 41543),

Gene: Talos_171 Start: 87963, Stop: 88352, Start Num: 66
Candidate Starts for Talos_171:
(34, 87903), (Start: 66 @87963 has 180 MA's), (Start: 72 @87975 has 12 MA's), (112, 88050), (127, 88080), (167, 88161), (183, 88221), (191, 88245), (203, 88290), (207, 88302), (221, 88335),

Gene: Taquarus_60 Start: 40246, Stop: 39866, Start Num: 18
Candidate Starts for Taquarus_60:

(Start: 18 @40246 has 171 MA's), (150, 40087), (154, 40078), (183, 39994), (201, 39925), (202, 39919),

Gene: Tarkin_75 Start: 48306, Stop: 48719, Start Num: 64
Candidate Starts for Tarkin_75:
(Start: 64 @48306 has 154 MA's), (Start: 72 @48321 has 12 MA's), (138, 48468), (183, 48606),

Gene: Taurus_68 Start: 40934, Stop: 40524, Start Num: 70
Candidate Starts for Taurus_68:
(2, 41291), (3, 41288), (Start: 61 @40952 has 9 MA's), (Start: 66 @40943 has 180 MA's), (Start: 70 @40934 has 15 MA's), (112, 40841), (183, 40688), (201, 40619),

Gene: TeamEdward_78 Start: 49011, Stop: 49424, Start Num: 64
Candidate Starts for TeamEdward_78:
(Start: 64 @49011 has 154 MA's), (Start: 72 @49026 has 12 MA's), (138, 49173), (183, 49311),

Gene: TeardropMSU_72 Start: 47306, Stop: 47719, Start Num: 64
Candidate Starts for TeardropMSU_72:
(Start: 64 @47306 has 154 MA's), (Start: 72 @47321 has 12 MA's), (138, 47468), (183, 47606),

Gene: Teaspoon_77 Start: 48200, Stop: 48613, Start Num: 64
Candidate Starts for Teaspoon_77:
(Start: 64 @48200 has 154 MA's), (Start: 72 @48215 has 12 MA's), (138, 48362), (183, 48500),

Gene: Terminus_79 Start: 49093, Stop: 49506, Start Num: 64
Candidate Starts for Terminus_79:
(Start: 64 @49093 has 154 MA's), (Start: 72 @49108 has 12 MA's), (138, 49255), (183, 49393),

Gene: Tesla_70 Start: 40389, Stop: 40880, Start Num: 60
Candidate Starts for Tesla_70:
(Start: 60 @40389 has 21 MA's), (132, 40536), (183, 40692), (184, 40695), (195, 40731), (201, 40761), (211, 40794),

Gene: Texage_61 Start: 40647, Stop: 40264, Start Num: 18
Candidate Starts for Texage_61:
(Start: 16 @40656 has 8 MA's), (Start: 18 @40647 has 171 MA's), (112, 40551), (150, 40491), (183, 40398), (209, 40299), (211, 40296), (224, 40269),

Gene: Thanksgivukkah_60 Start: 40241, Stop: 39861, Start Num: 18
Candidate Starts for Thanksgivukkah_60:
(Start: 18 @40241 has 171 MA's), (150, 40082), (154, 40073), (183, 39989), (201, 39920), (202, 39914),

Gene: Thimble_77 Start: 47541, Stop: 47954, Start Num: 64
Candidate Starts for Thimble_77:
(Start: 64 @47541 has 154 MA's), (Start: 72 @47556 has 12 MA's), (138, 47703), (183, 47841),

Gene: Thresher_78 Start: 49180, Stop: 49593, Start Num: 64
Candidate Starts for Thresher_78:
(Start: 64 @49180 has 154 MA's), (Start: 72 @49195 has 12 MA's), (138, 49342), (183, 49480),

Gene: Tiffany_66 Start: 40838, Stop: 40410, Start Num: 61
Candidate Starts for Tiffany_66:

(2, 41177), (3, 41174), (Start: 61 @40838 has 9 MA's), (Start: 66 @40829 has 180 MA's), (Start: 70 @40820 has 15 MA's), (112, 40727), (183, 40574), (201, 40505),

Gene: Timothy_63 Start: 39346, Stop: 38972, Start Num: 66
Candidate Starts for Timothy_63:
(1, 39682), (5, 39634), (11, 39577), (25, 39454), (Start: 60 @39358 has 21 MA's), (Start: 66 @39346 has 180 MA's), (150, 39187), (154, 39178), (177, 39112), (183, 39094), (201, 39025),

Gene: Timshel_60 Start: 42789, Stop: 42340, Start Num: 66
Candidate Starts for Timshel_60:
(Start: 66 @42789 has 180 MA's), (74, 42774), (94, 42726), (150, 42630), (160, 42609), (161, 42606), (183, 42537), (195, 42498), (201, 42468), (223, 42411), (233, 42357),

Gene: TinaFeyge_59 Start: 40238, Stop: 39858, Start Num: 18
Candidate Starts for TinaFeyge_59:
(Start: 18 @40238 has 171 MA's), (150, 40079), (154, 40070), (183, 39986), (201, 39917), (202, 39911),

Gene: TinyPebbles_66 Start: 40973, Stop: 40554, Start Num: 66
Candidate Starts for TinyPebbles_66:
(2, 41321), (3, 41318), (6, 41279), (Start: 61 @40982 has 9 MA's), (Start: 66 @40973 has 180 MA's), (Start: 70 @40964 has 15 MA's), (112, 40871), (183, 40718), (201, 40649), (209, 40619),

Gene: TinyTimmy_63 Start: 39395, Stop: 39021, Start Num: 66
Candidate Starts for TinyTimmy_63:
(1, 39731), (5, 39683), (11, 39626), (25, 39503), (29, 39476), (Start: 60 @39407 has 21 MA's), (Start: 66 @39395 has 180 MA's), (111, 39299), (150, 39236), (154, 39227), (160, 39215), (177, 39161), (183, 39143), (201, 39074),

Gene: Tinybot_60 Start: 40273, Stop: 39893, Start Num: 18
Candidate Starts for Tinybot_60:
(Start: 18 @40273 has 171 MA's), (150, 40114), (154, 40105), (183, 40021), (201, 39952),

Gene: TipsytheTRex_62 Start: 40006, Stop: 39629, Start Num: 66
Candidate Starts for TipsytheTRex_62:
(57, 40021), (Start: 66 @40006 has 180 MA's), (114, 39904), (150, 39847), (183, 39754), (197, 39709), (201, 39685),

Gene: TiroTheta9_60 Start: 40237, Stop: 39857, Start Num: 18
Candidate Starts for TiroTheta9_60:
(Start: 18 @40237 has 171 MA's), (150, 40078), (154, 40069), (183, 39985), (201, 39916), (202, 39910),

Gene: Todacoro_63 Start: 40646, Stop: 40263, Start Num: 18
Candidate Starts for Todacoro_63:
(Start: 16 @40655 has 8 MA's), (Start: 18 @40646 has 171 MA's), (112, 40550), (150, 40490), (183, 40397), (209, 40298), (211, 40295), (224, 40268),

Gene: Tomaszewski_71 Start: 47469, Stop: 47882, Start Num: 64
Candidate Starts for Tomaszewski_71:
(Start: 64 @47469 has 154 MA's), (Start: 72 @47484 has 12 MA's), (148, 47661), (183, 47769), (192, 47796),

Gene: Tomathan_66 Start: 40962, Stop: 40585, Start Num: 66
Candidate Starts for Tomathan_66:
(23, 41076), (57, 40977), (Start: 66 @40962 has 180 MA's), (Start: 90 @40911 has 4 MA's), (112, 40863), (114, 40860), (150, 40803), (183, 40710), (184, 40707), (201, 40641),

Gene: Toniann_118 Start: 67752, Stop: 68129, Start Num: 66
Candidate Starts for Toniann_118:
(43, 67707), (Start: 66 @67752 has 180 MA's), (93, 67812), (183, 68010), (185, 68019), (186, 68022), (190, 68031), (201, 68079), (209, 68109),

Gene: Toro_63 Start: 43633, Stop: 43184, Start Num: 66
Candidate Starts for Toro_63:
(12, 43837), (Start: 66 @43633 has 180 MA's), (94, 43570), (150, 43474), (154, 43465), (183, 43381), (195, 43342), (201, 43312), (233, 43201),

Gene: Toto_74 Start: 48560, Stop: 48973, Start Num: 64
Candidate Starts for Toto_74:
(Start: 64 @48560 has 154 MA's), (Start: 72 @48575 has 12 MA's), (138, 48722), (183, 48860),

Gene: Tourach_86 Start: 56255, Stop: 56671, Start Num: 62
Candidate Starts for Tourach_86:
(Start: 58 @56246 has 1 MA's), (Start: 62 @56255 has 7 MA's), (Start: 98 @56333 has 1 MA's), (107, 56351), (112, 56354), (138, 56411), (143, 56429), (144, 56432), (176, 56522), (183, 56549), (201, 56618),

Gene: Towmatter_45 Start: 39505, Stop: 39900, Start Num: 75
Candidate Starts for Towmatter_45:
(Start: 75 @39505 has 2 MA's), (169, 39697), (183, 39754), (184, 39757), (190, 39775),

Gene: TpudiCK_126 Start: 65032, Stop: 65529, Start Num: 64
Candidate Starts for TpudiCK_126:
(27, 64930), (Start: 42 @64990 has 1 MA's), (Start: 64 @65032 has 154 MA's), (Start: 90 @65086 has 4 MA's), (Start: 98 @65110 has 1 MA's), (143, 65221), (149, 65236), (183, 65344), (190, 65365), (201, 65413),

Gene: Traaww1_72 Start: 47744, Stop: 48157, Start Num: 64
Candidate Starts for Traaww1_72:
(Start: 64 @47744 has 154 MA's), (Start: 72 @47759 has 12 MA's), (138, 47906), (183, 48044),

Gene: Travvers_65 Start: 40912, Stop: 40535, Start Num: 66
Candidate Starts for Travvers_65:
(23, 41026), (57, 40927), (Start: 66 @40912 has 180 MA's), (Start: 90 @40861 has 4 MA's), (112, 40813), (114, 40810), (150, 40753), (183, 40660), (184, 40657), (201, 40591),

Gene: Trina_43 Start: 16818, Stop: 16444, Start Num: 86
Candidate Starts for Trina_43:
(Start: 86 @16818 has 4 MA's), (111, 16761), (124, 16734), (137, 16713), (152, 16677), (166, 16644), (183, 16572), (201, 16503), (202, 16497),

Gene: TroyPia_62 Start: 40241, Stop: 39861, Start Num: 18
Candidate Starts for TroyPia_62:
(Start: 18 @40241 has 171 MA's), (150, 40082), (154, 40073), (183, 39989), (201, 39920), (202, 39914),

Gene: Tuco_77 Start: 49068, Stop: 49481, Start Num: 64
Candidate Starts for Tuco_77:
(Start: 64 @49068 has 154 MA's), (Start: 72 @49083 has 12 MA's), (138, 49230), (183, 49368),

Gene: TyDawg_119 Start: 65035, Stop: 65532, Start Num: 64
Candidate Starts for TyDawg_119:
(27, 64933), (Start: 42 @64993 has 1 MA's), (Start: 64 @65035 has 154 MA's), (Start: 90 @65089 has 4 MA's), (Start: 98 @65113 has 1 MA's), (143, 65224), (149, 65239), (183, 65347), (190, 65368), (201, 65416),

Gene: TygerBlood_61 Start: 40243, Stop: 39863, Start Num: 18
Candidate Starts for TygerBlood_61:
(Start: 18 @40243 has 171 MA's), (150, 40084), (154, 40075), (183, 39991), (201, 39922), (202, 39916),

Gene: Tyson_86 Start: 54794, Stop: 55207, Start Num: 66
Candidate Starts for Tyson_86:
(Start: 66 @54794 has 180 MA's), (Start: 90 @54845 has 4 MA's), (Start: 92 @54851 has 1 MA's), (183, 55085), (190, 55106), (192, 55112), (201, 55154),

Gene: UPIE_84 Start: 54390, Stop: 54803, Start Num: 66
Candidate Starts for UPIE_84:
(Start: 66 @54390 has 180 MA's), (Start: 90 @54441 has 4 MA's), (Start: 92 @54447 has 1 MA's), (183, 54681), (190, 54702), (192, 54708), (201, 54750),

Gene: Ukulele_71 Start: 47451, Stop: 47864, Start Num: 64
Candidate Starts for Ukulele_71:
(Start: 64 @47451 has 154 MA's), (Start: 72 @47466 has 12 MA's), (138, 47613), (183, 47751),

Gene: Ulysses_60 Start: 39923, Stop: 39543, Start Num: 18
Candidate Starts for Ulysses_60:
(Start: 18 @39923 has 171 MA's), (150, 39764), (154, 39755), (183, 39671), (201, 39602), (202, 39596),

Gene: VC3_67 Start: 40889, Stop: 40512, Start Num: 66
Candidate Starts for VC3_67:
(23, 41003), (Start: 66 @40889 has 180 MA's), (Start: 70 @40880 has 15 MA's), (78, 40859), (87, 40841), (94, 40826), (183, 40637), (192, 40610), (198, 40586), (201, 40568),

Gene: VasuNzinga_72 Start: 40491, Stop: 40982, Start Num: 60
Candidate Starts for VasuNzinga_72:
(48, 40473), (Start: 60 @40491 has 21 MA's), (132, 40638), (183, 40794), (184, 40797), (195, 40833), (201, 40863), (211, 40896),

Gene: Veracruz_61 Start: 40646, Stop: 40263, Start Num: 18
Candidate Starts for Veracruz_61:
(Start: 16 @40655 has 8 MA's), (Start: 18 @40646 has 171 MA's), (112, 40550), (150, 40490), (183, 40397), (209, 40298), (211, 40295), (224, 40268),

Gene: Vix_65 Start: 41026, Stop: 40607, Start Num: 66
Candidate Starts for Vix_65:

(2, 41374), (3, 41371), (Start: 61 @41035 has 9 MA's), (Start: 66 @41026 has 180 MA's), (Start: 70 @41017 has 15 MA's), (112, 40924), (183, 40771), (201, 40702),

Gene: Wander_61 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for Wander_61:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919),

Gene: Watson_66 Start: 40926, Stop: 40516, Start Num: 70
Candidate Starts for Watson_66:
(2, 41283), (3, 41280), (Start: 61 @40944 has 9 MA's), (Start: 66 @40935 has 180 MA's), (Start: 70 @40926 has 15 MA's), (112, 40833), (183, 40680), (201, 40611),

Gene: Weasels2_55 Start: 20844, Stop: 20455, Start Num: 79
Candidate Starts for Weasels2_55:
(Start: 79 @20844 has 4 MA's), (109, 20769), (183, 20574), (202, 20499), (212, 20469),

Gene: Wiggin_78 Start: 48145, Stop: 48558, Start Num: 64
Candidate Starts for Wiggin_78:
(Start: 64 @48145 has 154 MA's), (Start: 72 @48160 has 12 MA's), (138, 48307), (183, 48445),

Gene: Wilbur_61 Start: 40240, Stop: 39860, Start Num: 18
Candidate Starts for Wilbur_61:
(Start: 18 @40240 has 171 MA's), (150, 40081), (154, 40072), (183, 39988), (201, 39919), (202, 39913),

Gene: Wildcat_134 Start: 64288, Stop: 64722, Start Num: 67
Candidate Starts for Wildcat_134:
(Start: 67 @64288 has 10 MA's), (Start: 72 @64297 has 12 MA's), (Start: 86 @64333 has 4 MA's), (Start: 88 @64336 has 1 MA's), (115, 64399), (136, 64447), (139, 64453), (146, 64477), (178, 64576), (183, 64591), (204, 64663),

Gene: Wile_59 Start: 40114, Stop: 39728, Start Num: 18
Candidate Starts for Wile_59:
(Start: 18 @40114 has 171 MA's), (150, 39955), (154, 39946), (183, 39862), (201, 39793),

Gene: Willez_71 Start: 46338, Stop: 46751, Start Num: 64
Candidate Starts for Willez_71:
(Start: 64 @46338 has 154 MA's), (Start: 72 @46353 has 12 MA's), (138, 46500), (183, 46638),

Gene: WilliamBoone_116 Start: 65070, Stop: 65447, Start Num: 66
Candidate Starts for WilliamBoone_116:
(Start: 66 @65070 has 180 MA's), (169, 65271), (173, 65289), (183, 65328), (184, 65331), (185, 65337), (186, 65340), (194, 65364),

Gene: Wizard007_60 Start: 40248, Stop: 39868, Start Num: 18
Candidate Starts for Wizard007_60:
(Start: 18 @40248 has 171 MA's), (150, 40089), (151, 40086), (154, 40080), (183, 39996), (201, 39927),

Gene: Wolpertinger_61 Start: 39390, Stop: 39004, Start Num: 60
Candidate Starts for Wolpertinger_61:
(1, 39714), (5, 39666), (11, 39609), (25, 39486), (Start: 60 @39390 has 21 MA's), (Start: 66 @39378 has 180 MA's), (150, 39219), (154, 39210), (177, 39144), (183, 39126), (201, 39057),

Gene: Wooldri_69 Start: 40855, Stop: 40436, Start Num: 66
Candidate Starts for Wooldri_69:
(2, 41203), (3, 41200), (6, 41161), (Start: 61 @40864 has 9 MA's), (Start: 66 @40855 has 180 MA's), (Start: 70 @40846 has 15 MA's), (112, 40753), (183, 40600), (201, 40531), (227, 40453),

Gene: Wyatt2_86 Start: 54792, Stop: 55205, Start Num: 66
Candidate Starts for Wyatt2_86:
(Start: 66 @54792 has 180 MA's), (Start: 90 @54843 has 4 MA's), (Start: 92 @54849 has 1 MA's), (183, 55083), (190, 55104), (192, 55110), (201, 55152),

Gene: Xandras_75 Start: 47553, Stop: 47966, Start Num: 64
Candidate Starts for Xandras_75:
(Start: 64 @47553 has 154 MA's), (Start: 72 @47568 has 12 MA's), (138, 47715), (183, 47853),

Gene: Xena_58 Start: 40080, Stop: 39694, Start Num: 18
Candidate Starts for Xena_58:
(Start: 18 @40080 has 171 MA's), (150, 39921), (154, 39912), (183, 39828), (201, 39759),

Gene: YassJohnny_73 Start: 47508, Stop: 47921, Start Num: 64
Candidate Starts for YassJohnny_73:
(Start: 64 @47508 has 154 MA's), (Start: 72 @47523 has 12 MA's), (148, 47700), (183, 47808), (192, 47835),

Gene: YoSam321_61 Start: 40237, Stop: 39857, Start Num: 18
Candidate Starts for YoSam321_61:
(Start: 18 @40237 has 171 MA's), (150, 40078), (154, 40069), (183, 39985), (201, 39916), (202, 39910),

Gene: Youngblood_79 Start: 49020, Stop: 49433, Start Num: 64
Candidate Starts for Youngblood_79:
(Start: 64 @49020 has 154 MA's), (Start: 72 @49035 has 12 MA's), (138, 49182), (183, 49320),

Gene: Yvonnetastic_125 Start: 70757, Stop: 71188, Start Num: 66
Candidate Starts for Yvonnetastic_125:
(Start: 66 @70757 has 180 MA's), (85, 70802), (Start: 90 @70808 has 4 MA's), (Start: 98 @70832 has 1 MA's), (183, 71036), (184, 71039), (185, 71045), (214, 71144), (225, 71168),

Gene: Zarafa_62 Start: 40585, Stop: 40202, Start Num: 18
Candidate Starts for Zarafa_62:
(4, 40735), (Start: 16 @40594 has 8 MA's), (Start: 18 @40585 has 171 MA's), (150, 40429), (177, 40354), (183, 40336), (209, 40237),

Gene: Zetzy_66 Start: 40506, Stop: 40087, Start Num: 66
Candidate Starts for Zetzy_66:
(2, 40854), (3, 40851), (6, 40812), (Start: 61 @40515 has 9 MA's), (Start: 66 @40506 has 180 MA's), (Start: 70 @40497 has 15 MA's), (80, 40470), (112, 40404), (183, 40251), (201, 40182),

Gene: xkcd_79 Start: 49210, Stop: 49623, Start Num: 64
Candidate Starts for xkcd_79:
(Start: 64 @49210 has 154 MA's), (Start: 72 @49225 has 12 MA's), (138, 49372), (183, 49510),