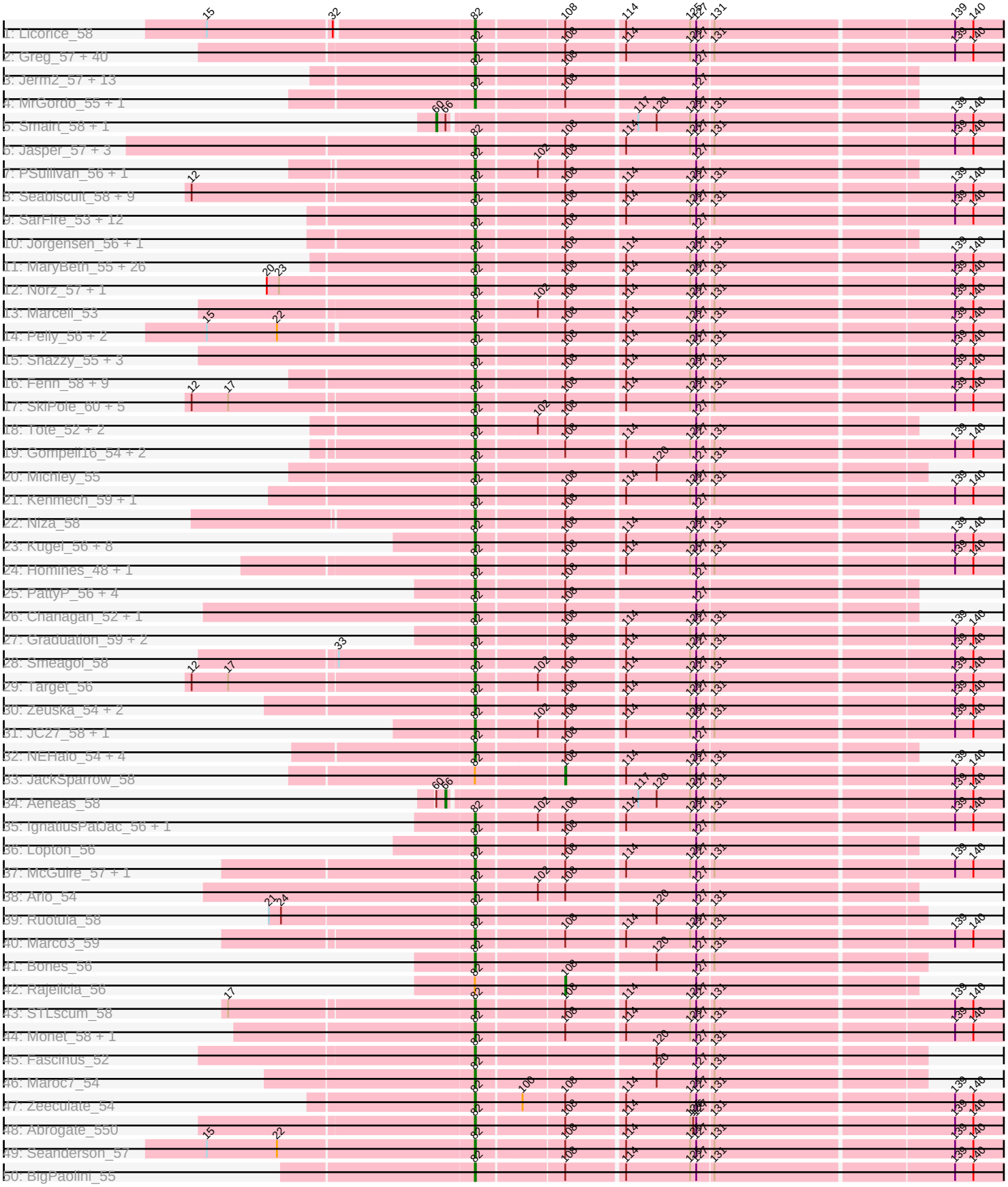
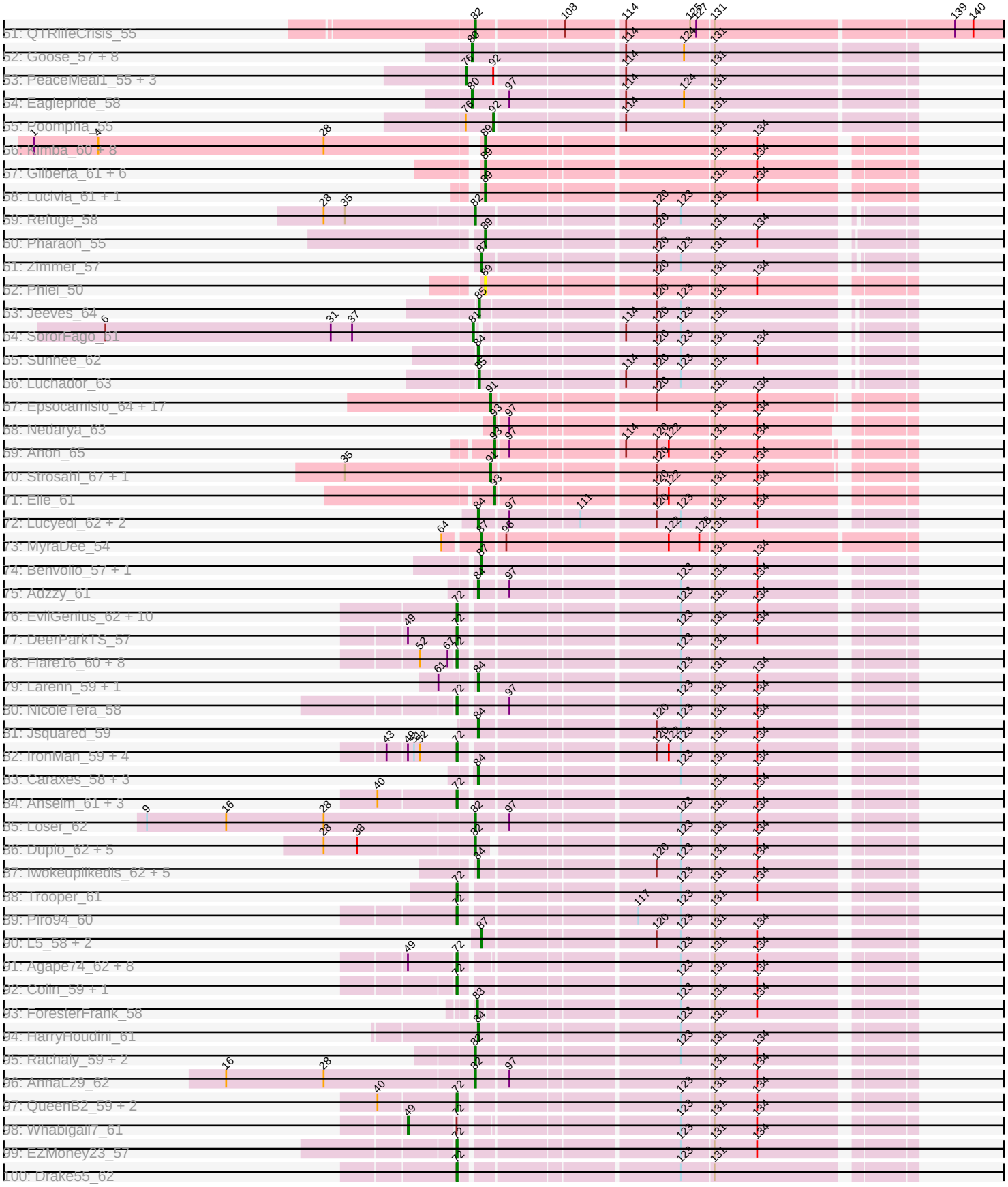
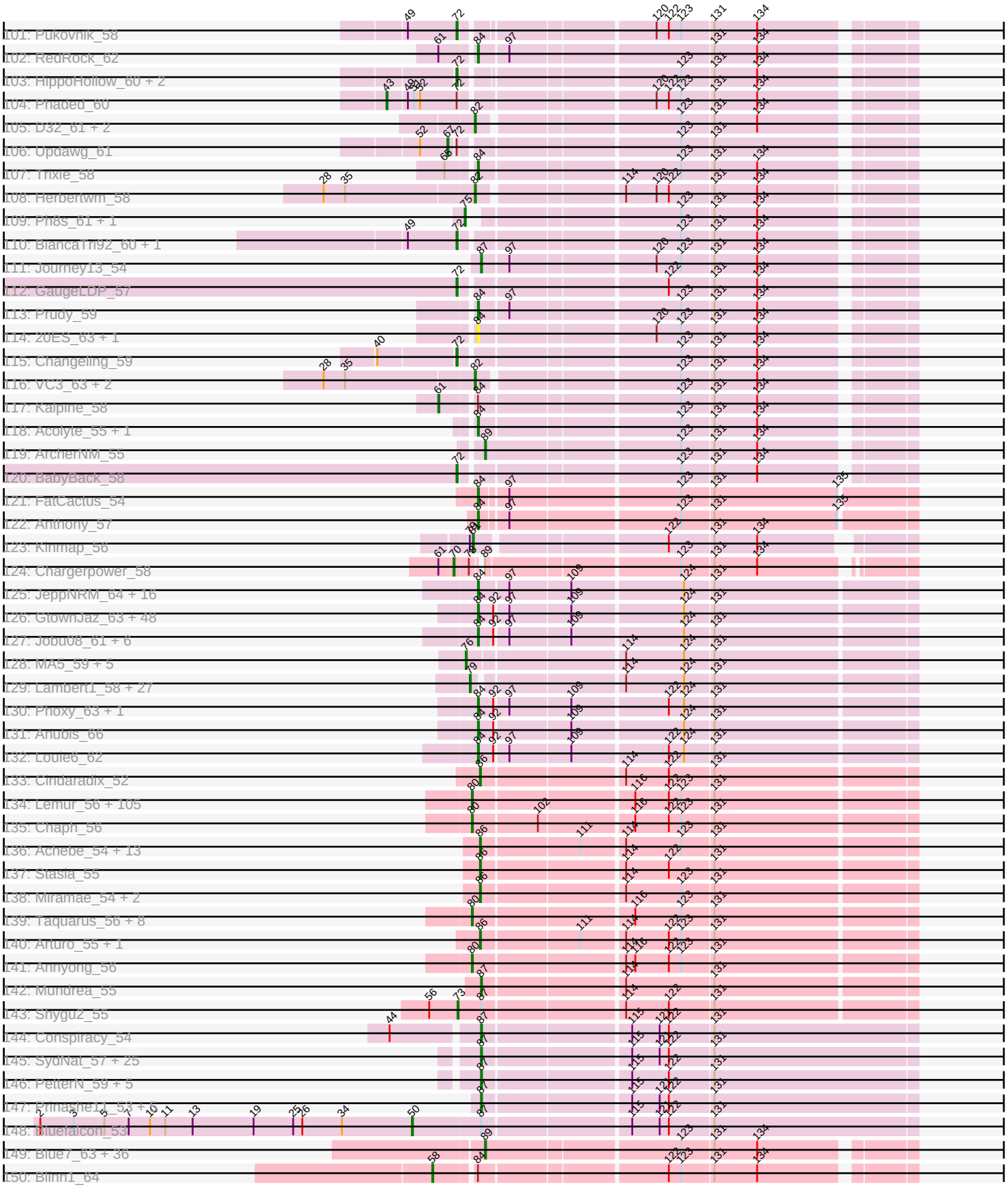
Pham 347027


1: Licorice_58
2: Greg_57 + 40
3: Jerm2_57 + 13
4: MrGordo_55 + 1
5: Smairt_58 + 1
6: Jasper_57 + 3
7: PSullivan_56 + 1
8: Seabiscuit_58 + 9
9: SanFire_53 + 12
10: Jorgensen_56 + 1
11: MaryBeth_55 + 26
12: Norz_57 + 1
13: Marcell_53
14: Pelly_56 + 2
15: Snazzy_55 + 3
16: Fenn_58 + 9
17: SkiPole_60 + 5
18: Tote_52 + 2
19: Gompeii16_54 + 2
20: Michley_55
21: Kenmech_59 + 1
22: Niza_58
23: Kugel_56 + 8
24: Homines_48 + 1
25: PattyP_56 + 4
26: Chanagan_52 + 1
27: Graduation_59 + 2
28: Smeagol_58
29: Target_56
30: Zeuska_54 + 2
31: JC27_58 + 1
32: NEHalo_54 + 4
33: JackSparrow_58
34: Aeneas_58
35: IgnatiusPatJac_56 + 1
36: Lopton_56
37: McGuire_57 + 1
38: Arlo_54
39: Ruotula_58
40: Marco3_59
41: Bones_56
42: Rajelicia_56
43: STLscum_58
44: Monet_58 + 1
45: Fascinus_52
46: Maroc7_54
47: Zeeculate_54
48: Abrogate_550
49: Seanderson_57
50: BigPaolini_55

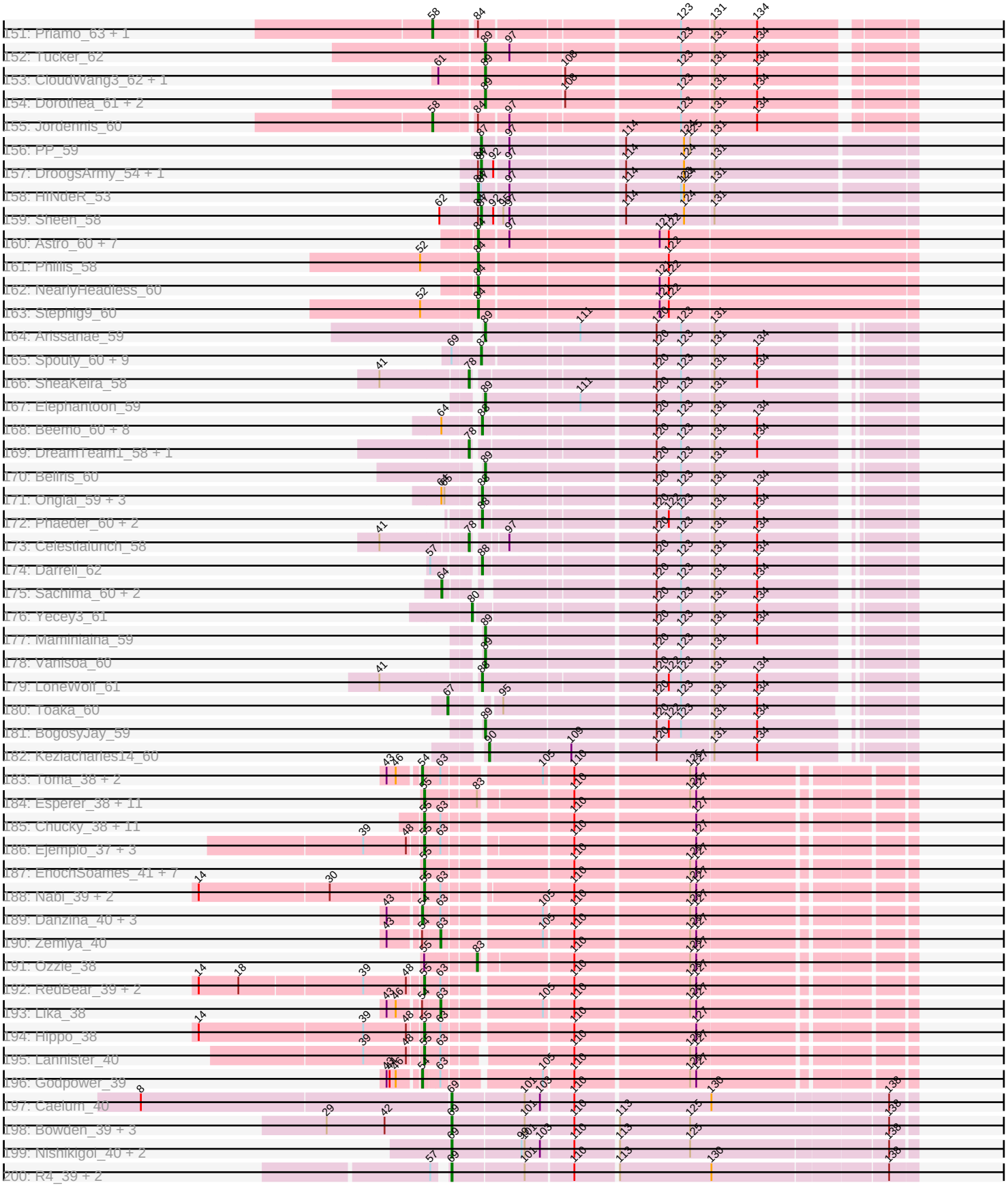
Pham 347027


51: QTRifleCrisis_55
52: Goose_57 + 8
53: PeaceMeal1_55 + 3
54: Eaglepride_58
55: Poompha_55
56: Kimba_60 + 8
57: Gilberta_61 + 6
58: Lucivia_61 + 1
59: Refuge_58
60: Pharaoh_55
61: Zimmer_57
62: Phiei_50
63: Jeeves_64
64: SororFago_61
65: Sunnee_62
66: Luchador_63
67: Epsocamisio_64 + 17
68: Nedarya_63
69: Anon_65
70: Strosani_67 + 1
71: Elle_61
72: Lucyedi_62 + 2
73: MyraDee_54
74: Benvolio_57 + 1
75: Adzzy_61
76: EvilGenius_62 + 10
77: DeerParkTS_57
78: Flare16_60 + 8
79: Larenn_59 + 1
80: NicoleTera_58
81: Jsquared_59
82: IronMan_59 + 4
83: Caraxes_58 + 3
84: Anselm_61 + 3
85: Loser_62
86: Duplo_62 + 5
87: Iwokeuplikedis_62 + 5
88: Trooper_61
89: Piro94_60
90: L5_58 + 2
91: Agape74_62 + 8
92: Colin_59 + 1
93: ForesterFrank_58
94: HarryHoudini_61
95: Rachaly_59 + 2
96: AnnaL29_62
97: QueenB2_59 + 2
98: Whabigail7_61
99: EZMoney23_57
100: Drake55_62

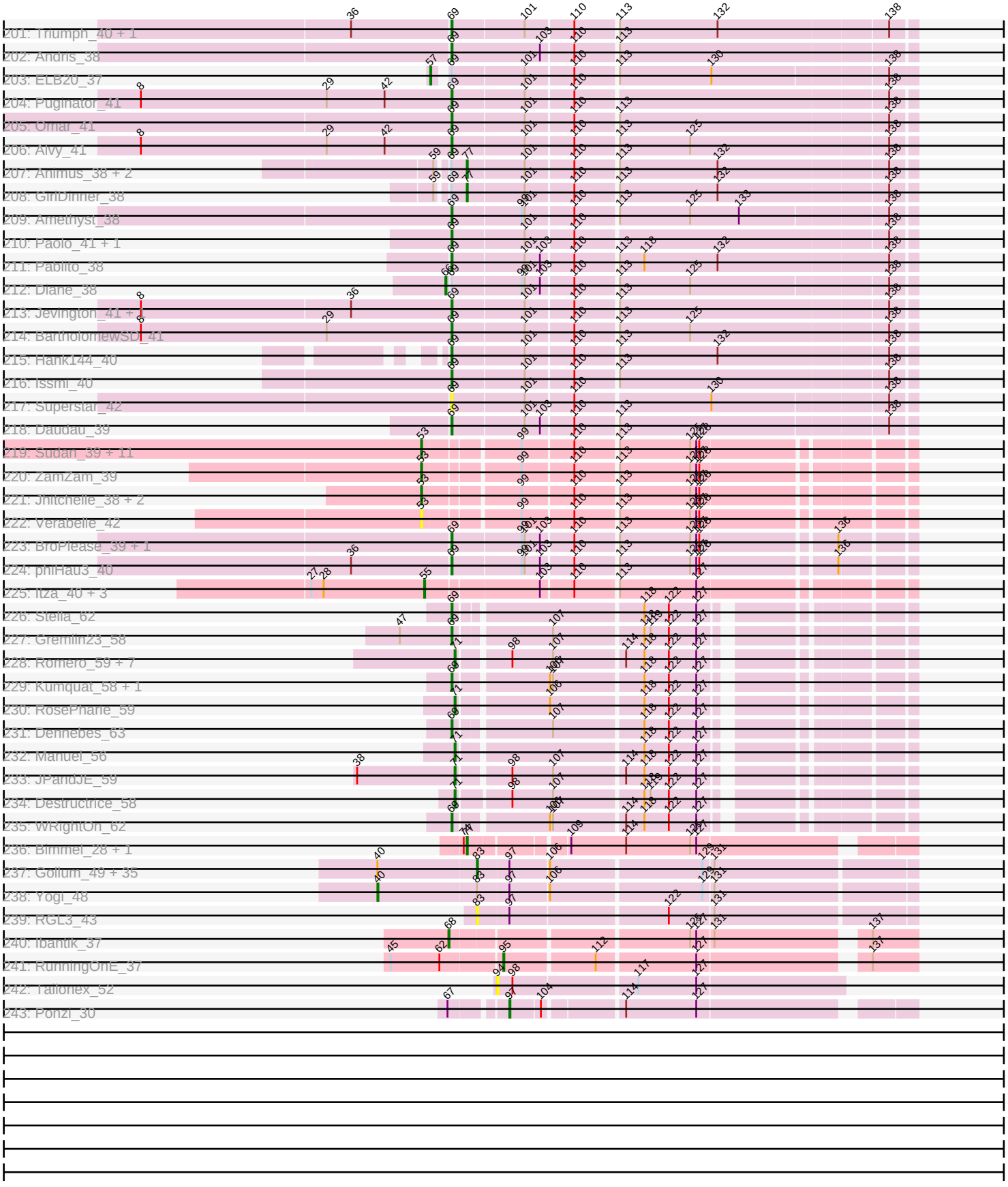
Pham 347027


I01: Pukovnik_58
I02: RedRock_62
I03: HippoHollow_60 + 2
I04: Phaded_60
I05: D32_61 + 2
I06: Updawg_61
I07: Trixie_58
I08: Herbertwm_58
I09: Ph8s_61 + 1
I10: BiancaTri92_60 + 1
I11: Journey13_54
I12: GaugeLDP_57
I13: Prudy_59
I14: 20ES_63 + 1
I15: Changeling_59
I16: VC3_63 + 2
I17: Kalpine_58
I18: Acolyte_55 + 1
I19: ArcherNM_55
I20: BabyBack_58
I21: FatCactus_54
I22: Anthony_57
I23: Kinmap_56
I24: Chargerpower_58
I25: JeppNRM_64 + 16
I26: GtownJaz_63 + 48
I27: Jobu08_61 + 6
I28: MA5_59 + 5
I29: Lambert1_58 + 27
I30: Phoxy_63 + 1
I31: Anubis_66
I32: Louie6_62
I33: Cindaradix_52
I34: Lemur_56 + 105
I35: Chaph_56
I36: Achebe_54 + 13
I37: Stasia_55
I38: Miramae_54 + 2
I39: Taquarus_56 + 8
I40: Arturo_55 + 1
I41: Annyong_56
I42: Mundrea_55
I43: Shygu2_55
I44: Conspiracy_54
I45: SydNat_57 + 25
I46: PetterN_59 + 5
I47: Emmajhe12_53 + 5
I48: Bluefalcon_53
I49: Blue7_63 + 36
I50: Blinn1_64

Pham 347027


151: Priamo_63 + 1
152: Tucker_62
153: CloudWang3_62 + 1
154: Dorothea_61 + 2
155: Jordennis_60
156: PP_59
157: DroogsArmy_54 + 1
158: HiNdeR_53
159: Sheen_58
160: Astro_60 + 7
161: Phillis_58
162: NearlyHeadless_60
163: Stephig9_60
164: Anissanae_59
165: Spouty_60 + 9
166: SneaKeira_58
167: Elephantoon_59
168: Beemo_60 + 8
169: DreamTeam1_58 + 1
170: Bellris_60
171: Onglai_59 + 3
172: Phaeder_60 + 2
173: Celestialunch_58
174: Darrell_62
175: Sachima_60 + 2
176: Yecey3_61
177: Mamiriaina_59
178: Vanisoa_60
179: LoneWolf_61
180: Toaka_60
181: BogosyJay_59
182: KeziaCharles14_60
183: Toma_38 + 2
184: Esperer_38 + 11
185: Chucky_38 + 11
186: Ejemplo_37 + 3
187: EnochSoames_41 + 7
188: Nabi_39 + 2
189: Danzina_40 + 3
190: Zemlya_40
191: Ozzie_38
192: RedBear_39 + 2
193: Lika_38
194: Hippo_38
195: Lannister_40
196: Godpower_39
197: Caelum_40
198: Bowden_39 + 3
199: Nishikigoi_40 + 2
200: R4_39 + 2

Pham 347027


201: Triumph_40 + 1
202: Andris_38
203: ELB20_37
204: Puginator_41
205: Omar_41
206: Alvy_41
207: Animus_38 + 2
208: GinDinner_38
209: Amethyst_38
210: Paolo_41 + 1
211: Pablito_38
212: Diane_38
213: Jevington_41 + 1
214: BartholomewSD_41
215: Hank144_40
216: Issmi_40
217: Superstar_42
218: Daudau_39
219: Sudan_39 + 11
220: ZamZam_39
221: Jhitchelle_38 + 2
222: Verabelle_42
223: BroPlease_39 + 1
224: phiRau3_40
225: Itza_40 + 3
226: Stella_62
227: Gremlin23_58
228: Romero_59 + 7
229: Kumquat_58 + 1
230: RosePhane_59
231: Dennebes_63
232: Manuel_56
233: JPandJE_59
234: Destructrice_58
235: WRightOn_62
236: Bimmel_28 + 1
237: Gollum_49 + 35
238: Yogi_48
239: RGL3_43
240: Ibantik_37
241: RunningOnE_37
242: Tallonex_52
243: Ponzi_30

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 347027 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 347027 has 966 members, 11 are drafts.

Phages represented in each track:
• Track 1 : Licorice_58
• Track 2 : Greg_57, Buttons_54, Solon_54, Dexes_56, Oogway_55, Nerujay_58, GMonster_53, Altman_59, Trouble_58, Bruns_55, Wilkins_55, Topgun_55, Marsha_55, Kanely_58, StewieG_52, Ciao_55, PascalRango_56, Lesedi_52, Violet_54, Pippin_57, GroundGoblin_55, Aldrich_55, Edtherson_55, Adahisdi_56, Hermia_56, Noxious_56, GrecoEtereo_56, Perseus_56, Rhynn_54, Petruchio_55, Rutherferd_57, Bxb1_51, Nhonho_55, KikiBouba_56, LunarLander_57, Eyeball_57, Blesser_54, Blue_55, Fajezeel_57, PowerRanger_54, Acme_57
• Track 3 : Jerm2_57, ConceptII_58, Burton_56, Euphoria_53, Rohr_57, HermioneGrange_56, Gandalf20_58, Watermelon_56, Museum_57, Atkinbua_59, Slagathor_58, BigMau_57, Manatee_57, Espresso_55
• Track 4 : MrGordo_55, Bethlehem_56
• Track 5 : Smairt_58, Mule_53
• Track 6 : Jasper_57, PherrisBueller_55, Dreamboat_57, Doom_54
• Track 7 : PSullivan_56, Pita2_59
• Track 8 : Seabiscuit_58, Levia_53, Marchy_50, Tasp14_57, Lamina13_56, Paphu_54, BarrowTuph_56, PhineBark_55, Hami1_49, Payneful_55
• Track 9 : SarFire_53, Sorpresa_54, Gyzlar_52, ILeeKay_59, MilleFeuille_55, DrFeelGood_53, Kykar_55, Crispicous1_53, Sanya_54, Scowl_56, ProMouse_58, Pinto_56, Thor_53
• Track 10 : Jorgensen_56, Ohno789_57
• Track 11 : MaryBeth_55, PinkPlastic_56, Magnito_54, Barriga_56, Makemake_56, Papez_58, Dynamix_57, MetalQZJ_54, Corvo_56, Zephyr_56, TheloniousMonk_56, Puppet_56, Hope4ever_57, MPlant7149_54, Alsfro_60, DreamCatcher_59, EnzoK_55, BPBiebs31_57, Bob3_54, Applejack_50, DD5_55, Sumter_52, Rubeus_56, Lockley_54, Sunshine924_57, Molly_57, Paraselene_53
• Track 12 : Norz_57, Carlyle_54
• Track 13 : Marcell_53
• Track 14 : Pelly_56, Dulcie_56, Gwendoluna_59
• Track 15 : Snazzy_55, Bigchungi_56, Wheeler_56, McSinger_56
• Track 16 : Fenn_58, Francis47_54, PacerPaul_55, Ichabod_59, CactusRose_53, Naira_58, RidgeCB_55, Pari_58, Squee_56, U2_55

• Track 17 : SkiPole_60, Beatrix_55, StrongArm_54, Pepe_52, Bexan_53, Parliament_55
• Track 18 : Tote_52, Swole_57, JuliaChild_57
• Track 19 : Gompeii16_54, Bircsak_54, Alvin_55
• Track 20 : Michley_55
• Track 21 : Kenmech_59, Tripl3t_56
• Track 22 : Niza_58
• Track 23 : Kugel_56, KyMonks1A_58, Moose_55, LilBib_56, HarryOW_55, Sagefire_58, Forsytheast_55, ShortQueendom_51, SwissCheese_57
• Track 24 : Homines_48, Rufus_57
• Track 25 : PattyP_56, Killigrew_56, KBG_56, Anglerfish_57, TwoPeat_57
• Track 26 : Chanagan_52, Ringer_56
• Track 27 : Graduation_59, Briton15_59, Cueylyss_57
• Track 28 : Smeagol_58
• Track 29 : Target_56
• Track 30 : Zeuska_54, Ajay_57, BeesKnees_58
• Track 31 : JC27_58, Ashballer_58
• Track 32 : NEHalo_54, GageAP_56, AFIS_53, SpikeBT_55, KSSJEB_55
• Track 33 : JackSparrow_58
• Track 34 : Aeneas_58
• Track 35 : IgnatiusPatJac_56, BluSpix_54
• Track 36 : Lopton_56
• Track 37 : McGuire_57, Traft412_58
• Track 38 : Arlo_54
• Track 39 : Ruotula_58
• Track 40 : Marco3_59
• Track 41 : Bones_56
• Track 42 : Rajelicia_56
• Track 43 : STLscum_58
• Track 44 : Monet_58, Treddle_56
• Track 45 : Fascinus_52
• Track 46 : Maroc7_54
• Track 47 : Zeeculate_54
• Track 48 : Abrogate_550
• Track 49 : Seanderson_57
• Track 50 : BigPaolini_55
• Track 51 : QTRlifeCrisis_55
• Track 52 : Goose_57, Twister_55, OKCentral2016_56, Rebeuca_57, WalterMcMickey_55, RhynO_57, Topanga_54, Kristoff_56, Chupacabra_55
• Track 53 : PeaceMeal1_55, Severus_55, Drake94_55, KittenMittens_54
• Track 54 : Eaglepride_58
• Track 55 : Poompha_55
• Track 56 : Kimba_60, Aneem_61, Flaverint_61, Joselito_61, TinyTimmy_60, Bachome_62, Jabith_61, Ebony_60, Fibonacci_60
• Track 57 : Gilberta_61, Bowtie_61, Insomnia_61, Sham4_60, Snape_60, Petersenfast_60, Timothy_60
• Track 58 : Lucivia_61, Saskia_61
• Track 59 : Refuge_58
• Track 60 : Pharaoh_55
• Track 61 : Zimmer_57
• Track 62 : Phlei_50
• Track 63 : Jeeves_64
• Track 64 : SororFago_61

• Track 65 : Sunhee_62
• Track 66 : Luchador_63
• Track 67 : Epsocamisio_64, Looper_66, Anaysia_67, Nebulosus_65, Boohoo_67, Rosalind_65, DekHockey33_68, Oofda_68, Waits_67, MinecraftSteve_67, KatherineG_67, JSwag_66, ShayRa_67, Battleship_69, Soups_67, Switzerland_66, Warrior24_69, LastResort_65
• Track 68 : Nedarya_63
• Track 69 : Anon_65
• Track 70 : Strosahl_67, Remus_67
• Track 71 : Elle_61
• Track 72 : Lucyedi_62, EagleEye_63, PainterBoy_62
• Track 73 : MyraDee_54
• Track 74 : Benvolio_57, Echild_60
• Track 75 : Adzzy_61
• Track 76 : EvilGenius_62, Power_59, SemperFi_61, QueenBeesly_60, Georgie2_61, SnapTap_60, Crucio_60, SweetiePie_60, XianYue_58, ChipMunk_62, FiringLine_60
• Track 77 : DeerParkTS_57
• Track 78 : Flare16_60, Sknot_60, Gratitude_60, MiculUcigas_60, Baehexic_59, Centaur_61, WideWale_61, Terrific_61, NaSiaTalie_60
• Track 79 : Larenn_59, Malec_60
• Track 80 : NicoleTera_58
• Track 81 : Jsquared_59
• Track 82 : IronMan_59, Tristan_58, Jaan_60, Bactobuster_58, Landor_60
• Track 83 : Caraxes_58, SwirlSquare_63, Odin_58, Superchunk_58
• Track 84 : Anselm_61, DudeLittle_59, Retro23_61, Dalmatian_61
• Track 85 : Loser_62
• Track 86 : Duplo_62, StarStuff_62, Kerberos_62, DBQu4n_62, Tomathan_62, Pomar16_99
• Track 87 : Iwokeuplikedis_62, AN3_63, LadyBird_65, VA6_61, Deloris_61, BengiVuitton_61
• Track 88 : Trooper_61
• Track 89 : Piro94_60
• Track 90 : L5_58, TipsytheTRex_57, Koduck_61
• Track 91 : Agape74_62, AbbyPaige_62, Bugsy_62, LilTurb_61, Dignity_62, Jerm_62, Leviathan_62, Smeagan_63, Turbido_61
• Track 92 : Colin_59, WeiHuaDA_60
• Track 93 : ForesterFrank_58
• Track 94 : HarryHoudini_61
• Track 95 : Rachaly_59, Lokk_57, BobSwaget_56
• Track 96 : AnnaL29_62
• Track 97 : QueenB2_59, Heffalump_59, Fameo_60
• Track 98 : Whabigail7_61
• Track 99 : EZMoney23_57
• Track 100 : Drake55_62
• Track 101 : Pukovnik_58
• Track 102 : RedRock_62
• Track 103 : HippoHollow_60, JoshKayV_62, LionsBait_60
• Track 104 : Phaded_60
• Track 105 : D32_61, Naji_62, D29_58
• Track 106 : Updawg_61
• Track 107 : Trixie_58
• Track 108 : Herbertwm_58

• Track 109 : Ph8s_61, Che12_61
• Track 110 : BiancaTri92_60, Leogania_60
• Track 111 : Journey13_54
• Track 112 : GaugeLDP_57
• Track 113 : Prudy_59
• Track 114 : 20ES_63, First_0062
• Track 115 : Changeling_59
• Track 116 : VC3_63, AN9_63, ANI8_63
• Track 117 : Kalpine_58
• Track 118 : Acolyte_55, NothingSpecial_58
• Track 119 : ArcherNM_55
• Track 120 : BabyBack_58
• Track 121 : FatCactus_54
• Track 122 : Anthony_57
• Track 123 : Kinmap_56
• Track 124 : Chargerpower_58
• Track 125 : JeppNRM_64, Pawn_63, ClownCar_63, HaveUMetTed_64, Phranny_64, Manu_63, Kalb97_64, OlanP_62, Heliosoles_62, Kalnoky_64, PhishRPhriends_61, Marius_64, Groupthink_64, Reba_63, Gemma_62, Calvinny_63, PurpleHaze_63
• Track 126 : GtownJaz_63, P28Green_64, Penny1_64, TinyPebbles_62, HashRod_64, Sabinator_62, Wooldri_65, Bxz2_58, LBerry_64, KADY_63, Snickers_63, Mainiac_63, Phoebe_64, Grub_63, Cullens_63, Beauxregard13_63, AgronaGT15_62, LugYA_66, Sabia_63, Lilith_63, Gwennie_63, Methuselah_58, PGHhamlin_65, BuzzBuzz_60, Dieselweasel_64, EpicPhail_64, Aglet_64, SoYo_63, Daishi_62, GingkoMaracino_63, BreSam8_63, Malinsilva_65, Pembroke_63, Soshari_65, Misomonster_64, MuchMore_66, Farber_63, MarQuardt_63, Lowa_63, Bigflo_63, JenCasNa_64, Grif_63, Taurus_64, Fernando_63, Hercules11_63, Tiffany_62, LarryKay_63, Grum1_63, AugsMagnumOpus_66
• Track 127 : Jobu08_61, SoilDragon_63, Rummer_62, Zetzy_62, MadMarie_63, Stagni_63, Ollie_63
• Track 128 : MA5_59, JF4_57, Phantastic_60, Isca_58, JF2_57, MK4_59
• Track 129 : Lambert1_58, Fred313_58, Bugatti_61, Caviar_58, Popcicle_58, Noella_58, ResDef_58, BabyRay_59, HelDan_59, Giroux_61, Kachowdy_59, Panamaxus_56, Idleandcovert_59, Hookmount_58, Pistachio_60, Puppy_60, Scout_59, Pocahontas_58, Texage_57, Clammy_61, TNguyen7_60, Heathen_59, Margo_58, Todacoro_58, QuinnKiro_57, DropBear_59, BlueBird_61, Veracruz_57
• Track 130 : Phoxy_63, Spike509_63
• Track 131 : Anubis_66
• Track 132 : Louie6_62
• Track 133 : Cindaradix_52
• Track 134 : Lemur_56, Koreni_55, SenorClean_56, Ulysses_55, Phighter1804_56, JetBlade_56, Mayonnaise_55, Huxley_55, TroyPia_57, Caelakin_56, LittleB_56, Iceman_56, DirtyDunning_55, Phacado_56, Wizard007_56, BubbleTrouble_55, Skipitt_55, Eurydice_57, Kremtemulon_56, Peaches_55, Camperdownii_54, MeeZee_56, Florean_56, Roosevelt_55, Avle17_56, Spino_55, Dhanush_56, Medusa_56, Eagle_56, NorthStar_55, BellusTerra_57, Connomayer_56, KFPoly_55, Eros_56, HamSlice_54, Pipcraft_54, Blackmoor_56, Deano_55, Koan_54, LittleGuy_56, Clarenza_55, Eapen_56, Citius_56, Ohfah_57, Palestino_55, Funston_55, OKaNui_56, Wilbur_56, Phontbonne_56, TygerBlood_56, Polymorphads_57, Millski_55, Gadost_56, Commander_56, Nebs_57, NotAPhaseMom_56, ICleared_56, Sabertooth_56, Lunsford_57, Bartimeaus_56, Morrow_57, Bruiser_55, Burger_54, Baby16_56, Albee_56, Iracema64_57, Flux_56,

Houdini22_56, Cintron_55, Eris_55, Sparxx_57, TiroTheta9_56, Pumbaa_56, Lorenzo_56, YoSam321_56, Kingmustik0402_56, LochMonster_57, Jaykayelowell_54, Relief_55, TinaFeyge_55, Melvin_58, Wander_56, Sultana_56, Nemo27_56, PeterPeter_56, RockieBear_56, Bombshell_56, Phelipe_57, SteMason_55, Alberto7_57, Maxo_57, Thanksgivukkah_55, Scamp_56, LappelDuVide_56, Nyxis_56, Tinybot_55, JoongJeon_55, Mazhar510_56, Druantia_56, Abdiel_56, Broseidon_56, Cocoaberry_56, Holli_55, CentreCat_56, Kyee_56, Kampy_55
• Track 135 : Chaph_56
• Track 136 : Achebe_54, Badger_54, Cici_55, Xena_54, AbbysRanger_55, PetiteSangsue_55, Perplexer_55, Wile_55, Katalie136_55, Bumblebee11_54, Morpher26_55, Noelle_56, Datway_55, Backyardigan_53
• Track 137 : Stasia_55
• Track 138 : Miramae_54, AvatarAhPeg_54, Stink_54
• Track 139 : Taquarus_56, BangNhom_56, Obama12_57, ChampagnePapi_58, Cerulean_57, Happiness_55, Ruin_56, LHTSCC_58, SheldonCooper_57
• Track 140 : Arturo_55, Kratark_56
• Track 141 : Annyong_56
• Track 142 : Mundrea_55
• Track 143 : Shygu2_55
• Track 144 : Conspiracy_54
• Track 145 : SydNat_57, Jovo_54, Cuco_54, Archetta_53, Benedict_58, ForGetIt_54, Tarynearal_52, Dublin_54, MarysWell_54, Coog_53, AgentM_53, Discoknowium_52, Midas2_53, Jabiru_56, Tiger_53, Lev2_54, Ghoulboy_57, Swirley_56, Phlorence_52, Theia_53, Aragog_53, Zolita_56, UnionJack_88, Twigg_54, PickleBack_54, Micasa_55
• Track 146 : PetterN_59, Chadwick_58, Scorpia_59, Airmid_55, Naca_55, ElTiger69_57
• Track 147 : Prinashe11_53, George_52, LittleCherry_54, HuhtaEnerson15_54, Bonamassa_54, Milcery_54
• Track 148 : Bluefalcon_53
• Track 149 : Blue7_63, GreedyLawyer_60, SuperAwesome_61, McFly_61, Gruunaga_62, Hammer_62, Pmask_60, Imbriano_63, Isiphiwo_59, Wiks_61, Rifter_62, Newrala_61, Chartreuse_60, Helmet_64, Candra_62, VohminGhazi_61, SmellyB_61, Gladiator_59, Kazan_62, EricB_60, Neeharika16_60, Hoot_56, ToneTone_59, Lilbunny_61, Jeffabunny_62, BennyP_62, Artemis2UCLA_62, WunderPhul_62, Kipper29_61, Temprado_63, Zaka_62, Zulu_63, BlessJoy_62, Roksolana_63, Indra_65, Cookiedough_61, Hexamo_62
• Track 150 : Blinn1_64
• Track 151 : Priamo_63, JewelBug_62
• Track 152 : Tucker_62
• Track 153 : CloudWang3_62, Koko_63
• Track 154 : Dorothea_61, BABullseye_54, Polyphemus_63
• Track 155 : Jordennis_60
• Track 156 : PP_59
• Track 157 : DroogsArmy_54, Timshel_55
• Track 158 : HINdeR_53
• Track 159 : Sheen_58
• Track 160 : Astro_60, Danforth_60, Caitlin_59, Dixon_59, Groundhog_59, Roary_61, Saintus_55, Smeadley_60
• Track 161 : Phillis_58
• Track 162 : NearlyHeadless_60
• Track 163 : Stephig9_60

• Track 164 : Arissanae_59
• Track 165 : Spouty_60, Qobbit_60, ExplosioNervosa_60, Priya_60, Eidsmoe_60, Conquerage_60, Alma_60, Fayely_60, EmyBug_59, Ayanochan_59
• Track 166 : SheaKeira_58
• Track 167 : Elephantoon_59
• Track 168 : Beemo_60, Scherzo_60, Catalina_61, Myxus_60, Holex_60, Aliter_60, Phonnegut_60, Pioneer_60, HortumSL17_60
• Track 169 : DreamTeam1_58, Charm_58
• Track 170 : Bellris_60
• Track 171 : Onglai_59, Hanray_60, RyeScarlet_60, Jiawan_60
• Track 172 : Phaeder_60, PackMan_59, Tubs_60
• Track 173 : Celestialunch_58
• Track 174 : Darrell_62
• Track 175 : Sachima_60, Lilleskat_60, EdogawaKiddo_60
• Track 176 : Yecey3_61
• Track 177 : Maminiaina_59
• Track 178 : Vanisoa_60
• Track 179 : LoneWolf_61
• Track 180 : Toaka_60
• Track 181 : BogosyJay_59
• Track 182 : Keziacharles14_60
• Track 183 : Toma_38, Sujidade_39, Goby_38
• Track 184 : Esperer_38, Phettuccine_38, Caliburn_38, Bovely_38, Legacy_38, Nerdos_37, Unstoppable_38, Leviticus_38, Hydra_40, BeardedLady_39, SunsetPointe_38, Indigo_37
• Track 185 : Chucky_38, Emaanora_41, OzzyJ_39, BarryBee_41, Asten_38, Snorlax_38, Triste_38, TagePhighter_40, Dwayne_38, SarahRose_38, Werner_38, Whatever_38
• Track 186 : Ejemplo_37, TuanPN_37, Yasdnil_38, Maneekul_38
• Track 187 : EnochSoames_41, Nanodon_40, Eddasa_39, Rusticus_39, Izzy_39, BryanRecycles_39, Jash_39, Oliynyk_39
• Track 188 : Nabi_39, Lorelei_39, Rana_39
• Track 189 : Danzina_40, Brataylor_41, Dattran_40, Celeste_39
• Track 190 : Zemlya_40
• Track 191 : Ozzie_38
• Track 192 : RedBear_39, Katalie_38, South40_38
• Track 193 : Lika_38
• Track 194 : Hippo_38
• Track 195 : Lannister_40
• Track 196 : Godpower_39
• Track 197 : Caelum_40
• Track 198 : Bowden_39, TinaBelcher_39, Thestral_40, TrvxScott_38
• Track 199 : Nishikigoi_40, Tefunt_40, Haizum_40
• Track 200 : R4_39, Loofah_39, Paedore_38
• Track 201 : Triumph_40, Axiom_39
• Track 202 : Andris_38
• Track 203 : ELB20_37
• Track 204 : Puginator_41
• Track 205 : Omar_41
• Track 206 : Alvy_41
• Track 207 : Animus_38, SqueakyClean_38, Janus_39
• Track 208 : GirlDinner_38
• Track 209 : Amethyst_38

• Track 210 : Paolo_41, Zainub_41
• Track 211 : Pablito_38
• Track 212 : Diane_38
• Track 213 : Jevington_41, Marav_42
• Track 214 : BartholomewSD_41
• Track 215 : Hank144_40
• Track 216 : Issmi_40
• Track 217 : Superstar_42
• Track 218 : Daudau_39
• Track 219 : Sudan_39, Provolone_40, Pavo_40, Conan_40, Vanseggelen_44, Alsaber_40, Celery_42, Kaine_39, SunkenRoot_39, Amela_39, ElGato_40, Verse_39
• Track 220 : ZamZam_39
• Track 221 : Jhitchelle_38, Speedwell_44, Dexers_38
• Track 222 : Verabelle_42
• Track 223 : BroPlease_39, GreenWeasel_40
• Track 224 : phiHau3_40
• Track 225 : Itza_40, Celia_40, Urza_40, VieEnRose_39
• Track 226 : Stella_62
• Track 227 : Gremlin23_58
• Track 228 : Romero_59, ToriToki_59, HaugeAnator_59, Treat_59, Olicious_59, Immanuel3_58, Percastrophe_59, ZooBear_59
• Track 229 : Kumquat_58, Zeigle_58
• Track 230 : RosePharie_59
• Track 231 : Dennebes_63
• Track 232 : Manuel_56
• Track 233 : JPandJE_59
• Track 234 : Destructrice_58
• Track 235 : WRightOn_62
• Track 236 : Bimmel_28, Success_30
• Track 237 : Gollum_49, StCroix_48, BobbyDazzler_49, Lillie_49, Hiro_49, Partridge_48, Dinger_48, Jester_48, Yoncess_48, Harlequin_48, AngryOrchard_47, RexFury_48, Takoda_49, RER2_42, Espica_49, Bradshaw_49, UhSalsa_49, CosmicSans_49, Natosaleda_48, Shuman_49, Naiad_48, AppleCloud_46, Bonanza_49, Belenaria_49, Rhodalysa_49, TWAMP_49, Phrankenstein_49, Krishelle_49, Alatin_48, Rasputin_49, Bryce_48, Erik_49, Alpacados_48, Nancinator_49, Swann_49, PhailMary_48
• Track 238 : Yogi_48
• Track 239 : RGL3_43
• Track 240 : Ibantik_37
• Track 241 : RunningOnE_37
• Track 242 : Tailonex_52
• Track 243 : Ponzi_30

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

The start number called the most often in the published annotations is 82, it was called in 223 of the 955 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• AFIS_53, AN9_63, ANI8_63, Abrogate_550, Acme_57, Adahisdi_56, Ajay_57, Aldrich_55, Alsfro_60, Altman_59, Alvin_55, Anglerfish_57, AnnaL29_62, Applejack_50, Arlo_54, Ashballer_58, Atkinbua_59, BPBiebs31_57, Barriga_56, BarrowTuph_56, Beatrix_55, BeesKnees_58, Bethlehem_56, Bexan_53, BigMau_57, BigPaolini_55, Bigchungi_56, Bircsak_54, Blesser_54, BluSpix_54, Blue_55, Bob3_54, BobSwaget_56, Bones_56, Briton15_59, Bruns_55, Burton_56, Buttons_54, Bxb1_51, CactusRose_53, Carlyle_54, Chanagan_52, Ciao_55, ConceptII_58, Corvo_56, Crispicous1_53, Cueylyss_57, D29_58, D32_61, DBQu4n_62, DD5_55, Dexes_56, Doom_54, DrFeelGood_53, DreamCatcher_59, Dreamboat_57, Dulcie_56, Duplo_62, Dynamix_57, Edtherson_55, EnzoK_55, Espresso_55, Euphoria_53, Eyeball_57, Fajezeel_57, Fascinus_52, Fenn_58, Forsytheast_55, Francis47_54, GMonster_53, GageAP_56, Gandalf20_58, Gompeii16_54, Graduation_59, GrecoEtereo_56, Greg_57, GroundGoblin_55, Gwendoluna_59, Gyzlar_52, Hami1_49, HarryOW_55, Herbertwm_58, Hermia_56, HermioneGrange_56, Homines_48, Hope4ever_57, ILeeKay_59, Ichabod_59, IgnatiusPatJac_56, JC27_58, Jasper_57, Jerm2_57, Jorgensen_56, JuliaChild_57, KBG_56, KSSJEB_55, Kanely_58, Kenmech_59, Kerberos_62, KikiBouba_56, Killigrew_56, Kugel_56, KyMonks1A_58, Kykar_55, Lamina13_56, Lesedi_52, Levia_53, Licorice_58, LilBib_56, Lockley_54, Lokk_57, Lopton_56, Loser_62, LunarLander_57, MPlant7149_54, Magnito_54, Makemake_56, Manatee_57, Marcell_53, Marchy_50, Marco3_59, Maroc7_54, Marsha_55, MaryBeth_55, McGuire_57, McSinger_56, MetalQZJ_54, Michley_55, MilleFeuille_55, Molly_57, Monet_58, Moose_55, MrGordo_55, Museum_57, NEHalo_54, Naira_58, Naji_62, Nerujay_58, Nhonho_55, Niza_58, Norz_57, Noxious_56, Ohno789_57, Oogway_55, PSullivan_56, PacerPaul_55, Papez_58, Paphu_54, Paraselene_53, Pari_58, Parliament_55, PascalRango_56, PattyP_56, Payneful_55, Pelly_56, Pepe_52, Perseus_56, Petruchio_55, PherrisBueller_55, PhineBark_55, PinkPlastic_56, Pinto_56, Pippin_57, Pita2_59, Pomar16_99, PowerRanger_54, ProMouse_58, Puppet_56, QTRlifeCrisis_55, Rachaly_59, Refuge_58, Rhynn_54, RidgeCB_55, Ringer_56, Rohr_57, Rubeus_56, Rufus_57, Ruotula_58, Rutherferd_57, STLscum_58, Sagefire_58, Sanya_54, SarFire_53, Scowl_56, Seabiscuit_58, Seanderson_57, ShortQueendom_51, SkiPole_60, Slagathor_58, Smeagol_58, Snazzy_55, Solon_54, Sorpresa_54, SpikeBT_55, Squee_56, StarStuff_62, StewieG_52, StrongArm_54, Sumter_52, Sunshine924_57, SwissCheese_57, Swole_57, Target_56, Tasp14_57, TheloniousMonk_56, Thor_53, Tomathan_62, Topgun_55, Tote_52, Traft412_58, Treddle_56, Tripl3t_56, Trouble_58, TwoPeat_57, U2_55, VC3_63, Violet_54, Watermelon_56, Wheeler_56, Wilkins_55, Zeeculate_54, Zephyr_56, Zeuska_54,

Genes that have the "Most Annotated" start but do not call it:
• JackSparrow_58, Rajelicia_56,

Genes that do not have the "Most Annotated" start:
• 20ES_63, AN3_63, AbbyPaige_62, AbbysRanger_55, Abdiel_56, Achebe_54, Acolyte_55, Adzzy_61, Aeneas_58, Agape74_62, AgentM_53, Aglet_64, AgronaGT15_62, Airmid_55, Alatin_48, Albee_56, Alberto7_57, Aliter_60, Alma_60, Alpacados_48, Alsaber_40, Alvy_41, Amela_39, Amethyst_38, Anaysia_67, Andris_38, Aneem_61, AngryOrchard_47, Animus_38, Annyong_56, Anon_65, Anselm_61, Anthony_57, Anubis_66, AppleCloud_46, Aragog_53, ArcherNM_55, Archetta_53, Arissanae_59, Artemis2UCLA_62, Arturo_55, Asten_38, Astro_60, AugsMagnumOpus_66, AvatarAhPeg_54, Avle17_56, Axiom_39, Ayanochan_59, BABullseye_54, Baby16_56, BabyBack_58, BabyRay_59, Bachome_62, Backyardigan_53, Bactobuster_58, Badger_54, Baehexic_59, BangNhom_56,

BarryBee_41, BartholomewSD_41, Bartimeaus_56, Battleship_69, BeardedLady_39, Beauxregard13_63, Beemo_60, Belenaria_49, Bellris_60, BellusTerra_57, Benedict_58, BengiVuitton_61, BennyP_62, Benvolio_57, BiancaTri92_60, Bigflo_63, Bimmel_28, Blackmoor_56, BlessJoy_62, Blinn1_64, Blue7_63, BlueBird_61, Bluefalcon_53, BobbyDazzler_49, BogosyJay_59, Bombshell_56, Bonamassa_54, Bonanza_49, Boohoo_67, Bovely_38, Bowden_39, Bowtie_61, Bradshaw_49, Brataylor_41, BreSam8_63, BroPlease_39, Broseidon_56, Bruiser_55, BryanRecycles_39, Bryce_48, BubbleTrouble_55, Bugatti_61, Bugsy_62, Bumblebee11_54, Burger_54, BuzzBuzz_60, Bxz2_58, Caelakin_56, Caelum_40, Caitlin_59, Caliburn_38, Calvinny_63, Camperdownii_54, Candra_62, Caraxes_58, Catalina_61, Caviar_58, Celery_42, Celeste_39, Celestialunch_58, Celia_40, Centaur_61, CentreCat_56, Cerulean_57, Chadwick_58, ChampagnePapi_58, Changeling_59, Chaph_56, Chargerpower_58, Charm_58, Chartreuse_60, Che12_61, ChipMunk_62, Chucky_38, Chupacabra_55, Cici_55, Cindaradix_52, Cintron_55, Citius_56, Clammy_61, Clarenza_55, CloudWang3_62, ClownCar_63, Cocoaberry_56, Colin_59, Commander_56, Conan_40, Connomayer_56, Conquerage_60, Conspiracy_54, Coog_53, Cookiedough_61, CosmicSans_49, Crucio_60, Cuco_54, Cullens_63, Daishi_62, Dalmatian_61, Danforth_60, Danzina_40, Darrell_62, Dattran_40, Datway_55, Daudau_39, Deano_55, DeerParkTS_57, DekHockey33_68, Deloris_61, Dennebes_63, Destructrice_58, Dexers_38, Dhanush_56, Diane_38, Dieselweasel_64, Dignity_62, Dinger_48, DirtyDunning_55, Discoknowium_52, Dixon_59, Dorothea_61, Drake55_62, Drake94_55, DreamTeam1_58, DroogsArmy_54, DropBear_59, Druantia_56, Dublin_54, DudeLittle_59, Dwayne_38, ELB20_37, EZMoney23_57, EagleEye_63, Eagle_56, Eaglepride_58, Eapen_56, Ebony_60, Echild_60, Eddasa_39, EdogawaKiddo_60, Eidsmoe_60, Ejemplo_37, ElGato_40, ElTiger69_57, Elephantoon_59, Elle_61, Emaanora_41, EmyBug_59, EnochSoames_41, EpicPhail_64, Epsocamisio_64, EricB_60, Erik_49, Eris_55, Eros_56, Esperer_38, Espica_49, Eurydice_57, EvilGenius_62, ExplosioNervosa_60, Fameo_60, Farber_63, FatCactus_54, Fayely_60, Fernando_63, Fibonacci_60, FiringLine_60, First_0062, Flare16_60, Flaverint_61, Florean_56, Flux_56, ForGetIt_54, ForesterFrank_58, Fred313_58, Funston_55, Gadost_56, GaugeLDP_57, Gemma_62, George_52, Georgie2_61, Ghoulboy_57, Gilberta_61, GingkoMaracino_63, GirlDinner_38, Giroux_61, Gladiator_59, Goby_38, Godpower_39, Gollum_49, Goose_57, Gratitude_60, GreedyLawyer_60, GreenWeasel_40, Gremlin23_58, Grif_63, Groundhog_59, Groupthink_64, Grub_63, Grum1_63, Gruunaga_62, GtownJaz_63, Gwennie_63, HINdeR_53, Haizum_40, HamSlice_54, Hammer_62, Hank144_40, Hanray_60, Happiness_55, Harlequin_48, HarryHoudini_61, HashRod_64, HaugeAnator_59, HaveUMetTed_64, Heathen_59, Heffalump_59, HelDan_59, Heliosoles_62, Helmet_64, Hercules11_63, Hexamo_62, HippoHollow_60, Hippo_38, Hiro_49, Holex_60, Holli_55, Hookmount_58, Hoot_56, HortumSL17_60, Houdini22_56, HuhtaEnerson15_54, Huxley_55, Hydra_40, ICleared_56, Ibantik_37, Iceman_56, Idleandcovert_59, Imbriano_63, Immanuel3_58, Indigo_37, Indra_65, Insomnia_61, Iracema64_57, IronMan_59, Isca_58, Isiphiwo_59, Issmi_40, Itza_40, Iwokeuplikedis_62, Izzy_39, JF2_57, JF4_57, JPandJE_59, JSwag_66, Jaan_60, Jabiru_56, Jabith_61, Janus_39, Jash_39, Jaykayelowell_54, Jeeves_64, Jeffabunny_62, JenCasNa_64, JeppNRM_64, Jerm_62, Jester_48, JetBlade_56, Jevington_41, JewelBug_62, Jhitchelle_38, Jiawan_60, Jobu08_61, JoongJeon_55, Jordennis_60, Joselito_61, JoshKayV_62, Journey13_54, Jovo_54, Jsquared_59, KADY_63, KFPoly_55, Kachowdy_59, Kaine_39, Kalb97_64, Kalnoky_64, Kalpine_58, Kampy_55, Katalie136_55, Katalie_38, KatherineG_67, Kazan_62, Keziacharles14_60, Kimba_60, Kingmustik0402_56, Kinmap_56, Kipper29_61, KittenMittens_54, Koan_54,

Koduck_61, Koko_63, Koreni_55, Kratark_56, Kremtemulon_56, Krishelle_49, Kristoff_56, Kumquat_58, Kyee_56, L5_58, LBerry_64, LHTSCC_58, LadyBird_65, Lambert1_58, Landor_60, Lannister_40, LappelDuVide_56, Larenn_59, LarryKay_63, LastResort_65, Legacy_38, Lemur_56, Leogania_60, Lev2_54, Leviathan_62, Leviticus_38, Lika_38, LilTurb_61, Lilbunny_61, Lilith_63, Lilleskat_60, Lillie_49, LionsBait_60, LittleB_56, LittleCherry_54, LittleGuy_56, LochMonster_57, LoneWolf_61, Loofah_39, Looper_66, Lorelei_39, Lorenzo_56, Louie6_62, Lowa_63, Luchador_63, Lucivia_61, Lucyedi_62, LugYA_66, Lunsford_57, MA5_59, MK4_59, MadMarie_63, Mainiac_63, Malec_60, Malinsilva_65, Maminiaina_59, Maneekul_38, Manu_63, Manuel_56, MarQuardt_63, Marav_42, Margo_58, Marius_64, MarysWell_54, Maxo_57, Mayonnaise_55, Mazhar510_56, McFly_61, Medusa_56, MeeZee_56, Melvin_58, Methuselah_58, Micasa_55, MiculUcigas_60, Midas2_53, Milcery_54, Millski_55, MinecraftSteve_67, Miramae_54, Misomonster_64, Morpher26_55, Morrow_57, MuchMore_66, Mule_53, Mundrea_55, MyraDee_54, Myxus_60, NaSiaTalie_60, Nabi_39, Naca_55, Naiad_48, Nancinator_49, Nanodon_40, Natosaleda_48, NearlyHeadless_60, Nebs_57, Nebulosus_65, Nedarya_63, Neeharika16_60, Nemo27_56, Nerdos_37, Newrala_61, NicoleTera_58, Nishikigoi_40, Noella_58, Noelle_56, NorthStar_55, NotAPhaseMom_56, NothingSpecial_58, Nyxis_56, OKCentral2016_56, OKaNui_56, Obama12_57, Odin_58, Ohfah_57, OlanP_62, Olicious_59, Oliynyk_39, Ollie_63, Omar_41, Onglai_59, Oofda_68, Ozzie_38, OzzyJ_39, P28Green_64, PGHhamlin_65, PP_59, Pablito_38, PackMan_59, Paedore_38, PainterBoy_62, Palestino_55, Panamaxus_56, Paolo_41, Partridge_48, Pavo_40, Pawn_63, PeaceMeal1_55, Peaches_55, Pembroke_63, Penny1_64, Percastrophe_59, Perplexer_55, PeterPeter_56, Petersenfast_60, PetiteSangsue_55, PetterN_59, Ph8s_61, Phacado_56, Phaded_60, Phaeder_60, PhailMary_48, Phantastic_60, Pharaoh_55, Phelipe_57, Phettuccine_38, Phighter1804_56, Phillis_58, PhishRPhriends_61, Phlei_50, Phlorence_52, Phoebe_64, Phonnegut_60, Phontbonne_56, Phoxy_63, Phrankenstein_49, Phranny_64, PickleBack_54, Pioneer_60, Pipcraft_54, Piro94_60, Pistachio_60, Pmask_60, Pocahontas_58, Polymorphads_57, Polyphemus_63, Ponzi_30, Poompha_55, Popcicle_58, Power_59, Priamo_63, Prinashe11_53, Priya_60, Provolone_40, Prudy_59, Puginator_41, Pukovnik_58, Pumbaa_56, Puppy_60, PurpleHaze_63, Qobbit_60, QueenB2_59, QueenBeesly_60, QuinnKiro_57, R4_39, RER2_42, RGL3_43, Rana_39, Rasputin_49, Reba_63, Rebeuca_57, RedBear_39, RedRock_62, Relief_55, Remus_67, ResDef_58, Retro23_61, RexFury_48, Rhodalysa_49, RhynO_57, Rifter_62, Roary_61, RockieBear_56, Roksolana_63, Romero_59, Roosevelt_55, Rosalind_65, RosePharie_59, Ruin_56, Rummer_62, RunningOnE_37, Rusticus_39, RyeScarlet_60, Sabertooth_56, Sabia_63, Sabinator_62, Sachima_60, Saintus_55, SarahRose_38, Saskia_61, Scamp_56, Scherzo_60, Scorpia_59, Scout_59, SemperFi_61, SenorClean_56, Severus_55, Sham4_60, ShayRa_67, SheaKeira_58, Sheen_58, SheldonCooper_57, Shuman_49, Shygu2_55, Skipitt_55, Sknot_60, Smairt_58, Smeadley_60, Smeagan_63, SmellyB_61, SnapTap_60, Snape_60, Snickers_63, Snorlax_38, SoYo_63, SoilDragon_63, SororFago_61, Soshari_65, Soups_67, South40_38, Sparxx_57, Speedwell_44, Spike509_63, Spino_55, Spouty_60, SqueakyClean_38, StCroix_48, Stagni_63, Stasia_55, SteMason_55, Stella_62, Stephig9_60, Stink_54, Strosahl_67, Success_30, Sudan_39, Sujidade_39, Sultana_56, Sunhee_62, SunkenRoot_39, SunsetPointe_38, SuperAwesome_61, Superchunk_58, Superstar_42, Swann_49, SweetiePie_60, SwirlSquare_63, Swirley_56, Switzerland_66, SydNat_57, TNguyen7_60, TWAMP_49, TagePhighter_40, Tailonex_52, Takoda_49, Taquarus_56, Tarynearal_52, Taurus_64, Tefunt_40, Temprado_63, Terrific_61, Texage_57, Thanksgivukkah_55, Theia_53, Thestral_40, Tiffany_62, Tiger_53, Timothy_60,

Timshel_55, TinaBelcher_39, TinaFeyge_55, TinyPebbles_62, TinyTimmy_60, Tinybot_55, TipsytheTRex_57, TiroTheta9_56, Toaka_60, Todacoro_58, Toma_38, ToneTone_59, Topanga_54, ToriToki_59, Treat_59, Tristan_58, Triste_38, Triumph_40, Trixie_58, Trooper_61, TroyPia_57, TrvxScott_38, TuanPN_37, Tubs_60, Tucker_62, Turbido_61, Twigg_54, Twister_55, TygerBlood_56, UhSalsa_49, Ulysses_55, UnionJack_88, Unstoppable_38, Updawg_61, Urza_40, VA6_61, Vanisoa_60, Vanseggelen_44, Verabelle_42, Veracruz_57, Verse_39, VieEnRose_39, VohminGhazi_61, WRightOn_62, Waits_67, WalterMcMickey_55, Wander_56, Warrior24_69, WeiHuaDA_60, Werner_38, Whabigail7_61, Whatever_38, WideWale_61, Wiks_61, Wilbur_56, Wile_55, Wizard007_56, Wooldri_65, WunderPhul_62, Xena_54, XianYue_58, Yasdnil_38, Yecey3_61, YoSam321_56, Yogi_48, Yoncess_48, Zainub_41, Zaka_62, ZamZam_39, Zeigle_58, Zemlya_40, Zetzy_62, Zimmer_57, Zolita_56, ZooBear_59, Zulu_63, phiHau3_40,

Summary by start number:

Start 40:
• Found in 45 of 966 (4.7%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 2.2% of time when present
• Phage (with cluster) where this start called: Yogi_48 (CA),

Start 43:
• Found in 16 of 966 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 6.2% of time when present
• Phage (with cluster) where this start called: Phaded_60 (A2),

Start 49:
• Found in 20 of 966 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 5.0% of time when present
• Phage (with cluster) where this start called: Whabigail7_61 (A2),

Start 50:
• Found in 1 of 966 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bluefalcon_53 (A5),

Start 53:
• Found in 17 of 966 (1.8%) of genes in pham
• Manual Annotations of this start: 14 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alsaber_40 (BD3), Amela_39 (BD3), Celery_42 (BD3), Conan_40 (BD3), Dexers_38 (BD3), ElGato_40 (BD3), Jhitchelle_38 (BD3), Kaine_39 (BD3), Pavo_40 (BD3), Provolone_40 (BD3), Speedwell_44 (BD3), Sudan_39 (BD3), SunkenRoot_39 (BD3), Vanseggelen_44 (BD3), Verabelle_42 (BD3), Verse_39 (BD3), ZamZam_39 (BD3),

Start 54:
• Found in 10 of 966 (1.0%) of genes in pham

• Manual Annotations of this start: 8 of 955
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Brataylor_41 (BD1), Celeste_39 (BD1), Danzina_40 (BD1), Dattran_40 (BD1), Goby_38 (BD1), Godpower_39 (BD1), Sujidade_39 (BD1), Toma_38 (BD1),

Start 55:
• Found in 49 of 966 (5.1%) of genes in pham
• Manual Annotations of this start: 47 of 955
• Called 98.0% of time when present
• Phage (with cluster) where this start called: Asten_38 (BD1), BarryBee_41 (BD1), BeardedLady_39 (BD1), Bovely_38 (BD1), BryanRecycles_39 (BD1), Caliburn_38 (BD1), Celia_40 (BD6), Chucky_38 (BD1), Dwayne_38 (BD1), Eddasa_39 (BD1), Ejemplo_37 (BD1), Emaanora_41 (BD1), EnochSoames_41 (BD1), Esperer_38 (BD1), Hippo_38 (BD1), Hydra_40 (BD1), Indigo_37 (BD1), Itza_40 (BD6), Izzy_39 (BD1), Jash_39 (BD1), Katalie_38 (BD1), Lannister_40 (BD1), Legacy_38 (BD1), Leviticus_38 (BD1), Lorelei_39 (BD1), Maneekul_38 (BD1), Nabi_39 (BD1), Nanodon_40 (BD1), Nerdos_37 (BD1), Oliynyk_39 (BD1), OzzyJ_39 (BD1), Phettuccine_38 (BD1), Rana_39 (BD1), RedBear_39 (BD1), Rusticus_39 (BD1), SarahRose_38 (BD1), Snorlax_38 (BD1), South40_38 (BD1), SunsetPointe_38 (BD1), TagePhighter_40 (BD1), Triste_38 (BD1), TuanPN_37 (BD1), Unstoppable_38 (BD1), Urza_40 (BD6), VieEnRose_39 (BD6), Werner_38 (BD1), Whatever_38 (BD1), Yasdnil_38 (BD1),

Start 57:
• Found in 5 of 966 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 20.0% of time when present
• Phage (with cluster) where this start called: ELB20_37 (BD2),

Start 58:
• Found in 4 of 966 (0.4%) of genes in pham
• Manual Annotations of this start: 4 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Blinn1_64 (A6), JewelBug_62 (A6), Jordennis_60 (A6), Priamo_63 (A6),

Start 60:
• Found in 3 of 966 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 955
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Mule_53 (A1), Smairt_58 (A1),

Start 61:
• Found in 7 of 966 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Kalpine_58 (A2),

Start 63:
• Found in 34 of 966 (3.5%) of genes in pham
• Manual Annotations of this start: 2 of 955
• Called 5.9% of time when present

• Phage (with cluster) where this start called: Lika_38 (BD1), Zemlya_40 (BD1),

Start 64:
• Found in 17 of 966 (1.8%) of genes in pham
• Manual Annotations of this start: 3 of 955
• Called 17.6% of time when present
• Phage (with cluster) where this start called: EdogawaKiddo_60 (A9), Lilleskat_60 (A9), Sachima_60 (A9),

Start 66:
• Found in 4 of 966 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 955
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Aeneas_58 (A1), Diane_38 (BD2),

Start 67:
• Found in 12 of 966 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 955
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Toaka_60 (A9), Updawg_61 (A2),

Start 68:
• Found in 1 of 966 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ibantik_37 (JN),

Start 69:
• Found in 53 of 966 (5.5%) of genes in pham
• Manual Annotations of this start: 36 of 955
• Called 69.8% of time when present
• Phage (with cluster) where this start called: Alvy_41 (BD2), Amethyst_38 (BD2), Andris_38 (BD2), Axiom_39 (BD2), BartholomewSD_41 (BD2), Bowden_39 (BD2), BroPlease_39 (BD4), Caelum_40 (BD2), Daudau_39 (BD2), Dennebes_63 (BF), GreenWeasel_40 (BD4), Gremlin23_58 (BF), Haizum_40 (BD2), Hank144_40 (BD2), Issmi_40 (BD2), Jevington_41 (BD2), Kumquat_58 (BF), Loofah_39 (BD2), Marav_42 (BD2), Nishikigoi_40 (BD2), Omar_41 (BD2), Pablito_38 (BD2), Paedore_38 (BD2), Paolo_41 (BD2), Puginator_41 (BD2), R4_39 (BD2), Stella_62 (BF), Superstar_42 (BD2), Tefunt_40 (BD2), Thestral_40 (BD2), TinaBelcher_39 (BD2), Triumph_40 (BD2), TrvxScott_38 (BD2), WRightOn_62 (BF), Zainub_41 (BD2), Zeigle_58 (BF), phiHau3_40 (BD4),

Start 70:
• Found in 1 of 966 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chargerpower_58 (A22),

Start 71:
• Found in 12 of 966 (1.2%) of genes in pham
• Manual Annotations of this start: 12 of 955
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Destructrice_58 (BF), HaugeAnator_59 (BF), Immanuel3_58 (BF), JPandJE_59 (BF), Manuel_56 (BF), Olicious_59 (BF), Percastrophe_59 (BF), Romero_59 (BF), RosePharie_59 (BF), ToriToki_59 (BF), Treat_59 (BF), ZooBear_59 (BF),

Start 72:
• Found in 61 of 966 (6.3%) of genes in pham
• Manual Annotations of this start: 58 of 955
• Called 95.1% of time when present
• Phage (with cluster) where this start called: AbbyPaige_62 (A2), Agape74_62 (A2), Anselm_61 (A2), BabyBack_58 (A2), Bactobuster_58 (A2), Baehexic_59 (A2), BiancaTri92_60 (A2), Bugsy_62 (A2), Centaur_61 (A2), Changeling_59 (A2), ChipMunk_62 (A2), Colin_59 (A2), Crucio_60 (A2), Dalmatian_61 (A2), DeerParkTS_57 (A2), Dignity_62 (A2), Drake55_62 (A2), DudeLittle_59 (A2), EZMoney23_57 (A2), EvilGenius_62 (A2), Fameo_60 (A2), FiringLine_60 (A2), Flare16_60 (A2), GaugeLDP_57 (A2), Georgie2_61 (A2), Gratitude_60 (A2), Heffalump_59 (A2), HippoHollow_60 (A2), IronMan_59 (A2), Jaan_60 (A2), Jerm_62 (A2), JoshKayV_62 (A2), Landor_60 (A2), Leogania_60 (A2), Leviathan_62 (A2), LilTurb_61 (A2), LionsBait_60 (A2), MiculUcigas_60 (A2), NaSiaTalie_60 (A2), NicoleTera_58 (A2), Piro94_60 (A2), Power_59 (A2), Pukovnik_58 (A2), QueenB2_59 (A2), QueenBeesly_60 (A2), Retro23_61 (A2), SemperFi_61 (A2), Sknot_60 (A2), Smeagan_63 (A2), SnapTap_60 (A2), SweetiePie_60 (A2), Terrific_61 (A2), Tristan_58 (A2), Trooper_61 (A2), Turbido_61 (A2), WeiHuaDA_60 (A2), WideWale_61 (A2), XianYue_58 (A2),

Start 73:
• Found in 1 of 966 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shygu2_55 (A4),

Start 75:
• Found in 2 of 966 (0.2%) of genes in pham
• Manual Annotations of this start: 2 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Che12_61 (A2), Ph8s_61 (A2),

Start 76:
• Found in 11 of 966 (1.1%) of genes in pham
• Manual Annotations of this start: 10 of 955
• Called 90.9% of time when present
• Phage (with cluster) where this start called: Drake94_55 (A10), Isca_58 (A3), JF2_57 (A3), JF4_57 (A3), KittenMittens_54 (A10), MA5_59 (A3), MK4_59 (A3), PeaceMeal1_55 (A10), Phantastic_60 (A3), Severus_55 (A10),

Start 77:
• Found in 6 of 966 (0.6%) of genes in pham
• Manual Annotations of this start: 6 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Animus_38 (BD2), Bimmel_28 (BT), GirlDinner_38 (BD2), Janus_39 (BD2), SqueakyClean_38 (BD2), Success_30 (BT),

Start 78:

• Found in 5 of 966 (0.5%) of genes in pham
• Manual Annotations of this start: 4 of 955
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Celestialunch_58 (A9), Charm_58 (A9), DreamTeam1_58 (A9), SheaKeira_58 (A9),

Start 79:
• Found in 29 of 966 (3.0%) of genes in pham
• Manual Annotations of this start: 28 of 955
• Called 96.6% of time when present
• Phage (with cluster) where this start called: BabyRay_59 (A3), BlueBird_61 (A3), Bugatti_61 (A3), Caviar_58 (A3), Clammy_61 (A3), DropBear_59 (A3), Fred313_58 (A3), Giroux_61 (A3), Heathen_59 (A3), HelDan_59 (A3), Hookmount_58 (A3), Idleandcovert_59 (A3), Kachowdy_59 (A3), Lambert1_58 (A3), Margo_58 (A3), Noella_58 (A3), Panamaxus_56 (A3), Pistachio_60 (A3), Pocahontas_58 (A3), Popcicle_58 (A3), Puppy_60 (A3), QuinnKiro_57 (A3), ResDef_58 (A3), Scout_59 (A3), TNguyen7_60 (A3), Texage_57 (A3), Todacoro_58 (A3), Veracruz_57 (A3),

Start 80:
• Found in 128 of 966 (13.3%) of genes in pham
• Manual Annotations of this start: 128 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abdiel_56 (A4), Albee_56 (A4), Alberto7_57 (A4), Annyong_56 (A4), Avle17_56 (A4), Baby16_56 (A4), BangNhom_56 (A4), Bartimeaus_56 (A4), BellusTerra_57 (A4), Blackmoor_56 (A4), Bombshell_56 (A4), Broseidon_56 (A4), Bruiser_55 (A4), BubbleTrouble_55 (A4), Burger_54 (A4), Caelakin_56 (A4), Camperdownii_54 (A4), CentreCat_56 (A4), Cerulean_57 (A4), ChampagnePapi_58 (A4), Chaph_56 (A4), Chupacabra_55 (A10), Cintron_55 (A4), Citius_56 (A4), Clarenza_55 (A4), Cocoaberry_56 (A4), Commander_56 (A4), Connomayer_56 (A4), Deano_55 (A4), Dhanush_56 (A4), DirtyDunning_55 (A4), Druantia_56 (A4), Eagle_56 (A4), Eaglepride_58 (A10), Eapen_56 (A4), Eris_55 (A4), Eros_56 (A4), Eurydice_57 (A4), Florean_56 (A4), Flux_56 (A4), Funston_55 (A4), Gadost_56 (A4), Goose_57 (A10), HamSlice_54 (A4), Happiness_55 (A4), Holli_55 (A4), Houdini22_56 (A4), Huxley_55 (A4), ICleared_56 (A4), Iceman_56 (A4), Iracema64_57 (A4), Jaykayelowell_54 (A4), JetBlade_56 (A4), JoongJeon_55 (A4), KFPoly_55 (A4), Kampy_55 (A4), Kingmustik0402_56 (A4), Koan_54 (A4), Koreni_55 (A4), Kremtemulon_56 (A4), Kristoff_56 (A10), Kyee_56 (A4), LHTSCC_58 (A4), LappelDuVide_56 (A4), Lemur_56 (A4), LittleB_56 (A4), LittleGuy_56 (A4), LochMonster_57 (A4), Lorenzo_56 (A4), Lunsford_57 (A4), Maxo_57 (A4), Mayonnaise_55 (A4), Mazhar510_56 (A4), Medusa_56 (A4), MeeZee_56 (A4), Melvin_58 (A4), Millski_55 (A4), Morrow_57 (A4), Nebs_57 (A4), Nemo27_56 (A4), NorthStar_55 (A4), NotAPhaseMom_56 (A4), Nyxis_56 (A4), OKCentral2016_56 (A10), OKaNui_56 (A4), Obama12_57 (A4), Ohfah_57 (A4), Palestino_55 (A4), Peaches_55 (A4), PeterPeter_56 (A4), Phacado_56 (A4), Phelipe_57 (A4), Phighter1804_56 (A4), Phontbonne_56 (A4), Pipcraft_54 (A4), Polymorphads_57 (A4), Pumbaa_56 (A4), Rebeuca_57 (A10), Relief_55 (A4), RhynO_57 (A10), RockieBear_56 (A4), Roosevelt_55 (A4), Ruin_56 (A4), Sabertooth_56 (A4), Scamp_56 (A4), SenorClean_56 (A4), SheldonCooper_57 (A4), Skipitt_55 (A4), Sparxx_57 (A4), Spino_55 (A4), SteMason_55 (A4), Sultana_56 (A4), Taquarus_56 (A4), Thanksgivukkah_55 (A4), TinaFeyge_55 (A4), Tinybot_55 (A4), TiroTheta9_56 (A4), Topanga_54 (A10), TroyPia_57 (A4), Twister_55 (A10), TygerBlood_56 (A4), Ulysses_55 (A4), WalterMcMickey_55 (A10), Wander_56 (A4), Wilbur_56 (A4),

Wizard007_56 (A4), Yecey3_61 (A9), YoSam321_56 (A4),

Start 81:
• Found in 2 of 966 (0.2%) of genes in pham
• Manual Annotations of this start: 2 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kinmap_56 (A21), SororFago_61 (A14),

Start 82:
• Found in 225 of 966 (23.3%) of genes in pham
• Manual Annotations of this start: 223 of 955
• Called 99.1% of time when present
• Phage (with cluster) where this start called: AFIS_53 (A1), AN9_63 (A2), ANI8_63 (A2), Abrogate_550 (A1), Acme_57 (A1), Adahisdi_56 (A1), Ajay_57 (A1), Aldrich_55 (A1), Alsfro_60 (A1), Altman_59 (A1), Alvin_55 (A1), Anglerfish_57 (A1), AnnaL29_62 (A2), Applejack_50 (A1), Arlo_54 (A1), Ashballer_58 (A1), Atkinbua_59 (A1), BPBiebs31_57 (A1), Barriga_56 (A1), BarrowTuph_56 (A1), Beatrix_55 (A1), BeesKnees_58 (A1), Bethlehem_56 (A1), Bexan_53 (A1), BigMau_57 (A1), BigPaolini_55 (A1), Bigchungi_56 (A1), Bircsak_54 (A1), Blesser_54 (A1), BluSpix_54 (A1), Blue_55 (A1), Bob3_54 (A1), BobSwaget_56 (A2), Bones_56 (A1), Briton15_59 (A1), Bruns_55 (A1), Burton_56 (A1), Buttons_54 (A1), Bxb1_51 (A1), CactusRose_53 (A1), Carlyle_54 (A1), Chanagan_52 (A1), Ciao_55 (A1), ConceptII_58 (A1), Corvo_56 (A1), Crispicous1_53 (A1), Cueylyss_57 (A1), D29_58 (A2), D32_61 (A2), DBQu4n_62 (A2), DD5_55 (A1), Dexes_56 (A1), Doom_54 (A1), DrFeelGood_53 (A1), DreamCatcher_59 (A1), Dreamboat_57 (A1), Dulcie_56 (A1), Duplo_62 (A2), Dynamix_57 (A1), Edtherson_55 (A1), EnzoK_55 (A1), Espresso_55 (A1), Euphoria_53 (A1), Eyeball_57 (A1), Fajezeel_57 (A1), Fascinus_52 (A1), Fenn_58 (A1), Forsytheast_55 (A1), Francis47_54 (A1), GMonster_53 (A1), GageAP_56 (A1), Gandalf20_58 (A1), Gompeii16_54 (A1), Graduation_59 (A1), GrecoEtereo_56 (A1), Greg_57 (A1), GroundGoblin_55 (A1), Gwendoluna_59 (A1), Gyzlar_52 (A1), Hami1_49 (A1), HarryOW_55 (A1), Herbertwm_58 (A2), Hermia_56 (A1), HermioneGrange_56 (A1), Homines_48 (A1), Hope4ever_57 (A1), ILeeKay_59 (A1), Ichabod_59 (A1), IgnatiusPatJac_56 (A1), JC27_58 (A1), Jasper_57 (A1), Jerm2_57 (A1), Jorgensen_56 (A1), JuliaChild_57 (A1), KBG_56 (A1), KSSJEB_55 (A1), Kanely_58 (A1), Kenmech_59 (A1), Kerberos_62 (A2), KikiBouba_56 (A1), Killigrew_56 (A1), Kugel_56 (A1), KyMonks1A_58 (A1), Kykar_55 (A1), Lamina13_56 (A1), Lesedi_52 (A1), Levia_53 (A1), Licorice_58 (A1), LilBib_56 (A1), Lockley_54 (A1), Lokk_57 (A2), Lopton_56 (A1), Loser_62 (A2), LunarLander_57 (A1), MPlant7149_54 (A1), Magnito_54 (A1), Makemake_56 (A1), Manatee_57 (A1), Marcell_53 (A1), Marchy_50 (A1), Marco3_59 (A1), Maroc7_54 (A1), Marsha_55 (A1), MaryBeth_55 (A1), McGuire_57 (A1), McSinger_56 (A1), MetalQZJ_54 (A1), Michley_55 (A1), MilleFeuille_55 (A1), Molly_57 (A1), Monet_58 (A1), Moose_55 (A1), MrGordo_55 (A1), Museum_57 (A1), NEHalo_54 (A1), Naira_58 (A1), Naji_62 (A2), Nerujay_58 (A1), Nhonho_55 (A1), Niza_58 (A1), Norz_57 (A1), Noxious_56 (A1), Ohno789_57 (A1), Oogway_55 (A1), PSullivan_56 (A1), PacerPaul_55 (A1), Papez_58 (A1), Paphu_54 (A1), Paraselene_53 (A1), Pari_58 (A1), Parliament_55 (A1), PascalRango_56 (A1), PattyP_56 (A1), Payneful_55 (A1), Pelly_56 (A1), Pepe_52 (A1), Perseus_56 (A1), Petruchio_55 (A1), PherrisBueller_55 (A1), PhineBark_55 (A1), PinkPlastic_56 (A1), Pinto_56 (A1), Pippin_57 (A1), Pita2_59 (A1), Pomar16_99 (A2), PowerRanger_54 (A1), ProMouse_58 (A1), Puppet_56 (A1), QTRlifeCrisis_55 (A1), Rachaly_59 (A2), Refuge_58 (A12), Rhynn_54 (A1), RidgeCB_55 (A1), Ringer_56 (A1), Rohr_57 (A1), Rubeus_56 (A1), Rufus_57 (A1), Ruotula_58 (A1), Rutherferd_57 (A1), STLscum_58 (A1), Sagefire_58 (A1),

Sanya_54 (A1), SarFire_53 (A1), Scowl_56 (A1), Seabiscuit_58 (A1), Seanderson_57 (A1), ShortQueendom_51 (A1), SkiPole_60 (A1), Slagathor_58 (A1), Smeagol_58 (A1), Snazzy_55 (A1), Solon_54 (A1), Sorpresa_54 (A1), SpikeBT_55 (A1), Squee_56 (A1), StarStuff_62 (A2), StewieG_52 (A1), StrongArm_54 (A1), Sumter_52 (A1), Sunshine924_57 (A1), SwissCheese_57 (A1), Swole_57 (A1), Target_56 (A1), Tasp14_57 (A1), TheloniousMonk_56 (A1), Thor_53 (A1), Tomathan_62 (A2), Topgun_55 (A1), Tote_52 (A1), Traft412_58 (A1), Treddle_56 (A1), Tripl3t_56 (A1), Trouble_58 (A1), TwoPeat_57 (A1), U2_55 (A1), VC3_63 (A2), Violet_54 (A1), Watermelon_56 (A1), Wheeler_56 (A1), Wilkins_55 (A1), Zeeculate_54 (A1), Zephyr_56 (A1), Zeuska_54 (A1),

Start 83:
• Found in 52 of 966 (5.4%) of genes in pham
• Manual Annotations of this start: 37 of 955
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Alatin_48 (CA), Alpacados_48 (CA), AngryOrchard_47 (CA), AppleCloud_46 (CA), Belenaria_49 (CA), BobbyDazzler_49 (CA), Bonanza_49 (CA), Bradshaw_49 (CA), Bryce_48 (CA), CosmicSans_49 (CA), Dinger_48 (CA), Erik_49 (CA), Espica_49 (CA), ForesterFrank_58 (A2), Gollum_49 (CA), Harlequin_48 (CA), Hiro_49 (CA), Jester_48 (CA), Krishelle_49 (CA), Lillie_49 (CA), Naiad_48 (CA), Nancinator_49 (CA), Natosaleda_48 (CA), Ozzie_38 (BD1), Partridge_48 (CA), PhailMary_48 (CA), Phrankenstein_49 (CA), RER2_42 (CA), RGL3_43 (CA), Rasputin_49 (CA), RexFury_48 (CA), Rhodalysa_49 (CA), Shuman_49 (CA), StCroix_48 (CA), Swann_49 (CA), TWAMP_49 (CA), Takoda_49 (CA), UhSalsa_49 (CA), Yoncess_48 (CA),

Start 84:
• Found in 125 of 966 (12.9%) of genes in pham
• Manual Annotations of this start: 115 of 955
• Called 93.6% of time when present
• Phage (with cluster) where this start called: 20ES_63 (A2), AN3_63 (A2), Acolyte_55 (A2), Adzzy_61 (A2), Aglet_64 (A3), AgronaGT15_62 (A3), Anthony_57 (A20), Anubis_66 (A3), Astro_60 (A8), AugsMagnumOpus_66 (A3), Beauxregard13_63 (A3), BengiVuitton_61 (A2), Bigflo_63 (A3), BreSam8_63 (A3), BuzzBuzz_60 (A3), Bxz2_58 (A3), Caitlin_59 (A8), Calvinny_63 (A3), Caraxes_58 (A2), ClownCar_63 (A3), Cullens_63 (A3), Daishi_62 (A3), Danforth_60 (A8), Deloris_61 (A2), Dieselweasel_64 (A3), Dixon_59 (A8), EagleEye_63 (A16), EpicPhail_64 (A3), Farber_63 (A3), FatCactus_54 (A20), Fernando_63 (A3), First_0062 (A2), Gemma_62 (A3), GingkoMaracino_63 (A3), Grif_63 (A3), Groundhog_59 (A8), Groupthink_64 (A3), Grub_63 (A3), Grum1_63 (A3), GtownJaz_63 (A3), Gwennie_63 (A3), HINdeR_53 (A7), HarryHoudini_61 (A2), HashRod_64 (A3), HaveUMetTed_64 (A3), Heliosoles_62 (A3), Hercules11_63 (A3), Iwokeuplikedis_62 (A2), JenCasNa_64 (A3), JeppNRM_64 (A3), Jobu08_61 (A3), Jsquared_59 (A2), KADY_63 (A3), Kalb97_64 (A3), Kalnoky_64 (A3), LBerry_64 (A3), LadyBird_65 (A2), Larenn_59 (A2), LarryKay_63 (A3), Lilith_63 (A3), Louie6_62 (A3), Lowa_63 (A3), Lucyedi_62 (A16), LugYA_66 (A3), MadMarie_63 (A3), Mainiac_63 (A3), Malec_60 (A2), Malinsilva_65 (A3), Manu_63 (A3), MarQuardt_63 (A3), Marius_64 (A3), Methuselah_58 (A3), Misomonster_64 (A3), MuchMore_66 (A3), NearlyHeadless_60 (A8), NothingSpecial_58 (A2), Odin_58 (A2), OlanP_62 (A3), Ollie_63 (A3), P28Green_64 (A3), PGHhamlin_65 (A3), PainterBoy_62 (A16), Pawn_63 (A3), Pembroke_63 (A3), Penny1_64 (A3), Phillis_58 (A8), PhishRPhriends_61 (A3), Phoebe_64 (A3), Phoxy_63 (A3), Phranny_64 (A3), Prudy_59 (A2), PurpleHaze_63 (A3), Reba_63 (A3), RedRock_62 (A2), Roary_61 (A8), Rummer_62 (A3), Sabia_63

(A3), Sabinator_62 (A3), Saintus_55 (A8), Smeadley_60 (A8), Snickers_63 (A3), SoYo_63 (A3), SoilDragon_63 (A3), Soshari_65 (A3), Spike509_63 (A3), Stagni_63 (A3), Stephig9_60 (A8), Sunhee_62 (A14), Superchunk_58 (A2), SwirlSquare_63 (A2), Taurus_64 (A3), Tiffany_62 (A3), TinyPebbles_62 (A3), Trixie_58 (A2), VA6_61 (A2), Wooldri_65 (A3), Zetzy_62 (A3),

Start 85:
• Found in 2 of 966 (0.2%) of genes in pham
• Manual Annotations of this start: 2 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jeeves_64 (A14), Luchador_63 (A14),

Start 86:
• Found in 21 of 966 (2.2%) of genes in pham
• Manual Annotations of this start: 21 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AbbysRanger_55 (A4), Achebe_54 (A4), Arturo_55 (A4), AvatarAhPeg_54 (A4), Backyardigan_53 (A4), Badger_54 (A4), Bumblebee11_54 (A4), Cici_55 (A4), Cindaradix_52 (A4), Datway_55 (A4), Katalie136_55 (A4), Kratark_56 (A4), Miramae_54 (A4), Morpher26_55 (A4), Noelle_56 (A4), Perplexer_55 (A4), PetiteSangsue_55 (A4), Stasia_55 (A4), Stink_54 (A4), Wile_55 (A4), Xena_54 (A4),

Start 87:
• Found in 65 of 966 (6.7%) of genes in pham
• Manual Annotations of this start: 62 of 955
• Called 95.4% of time when present
• Phage (with cluster) where this start called: AgentM_53 (A5), Airmid_55 (A5), Alma_60 (A9), Aragog_53 (A5), Archetta_53 (A5), Ayanochan_59 (A9), Benedict_58 (A5), Benvolio_57 (A2), Bonamassa_54 (A5), Chadwick_58 (A5), Conquerage_60 (A9), Conspiracy_54 (A5), Coog_53 (A5), Cuco_54 (A5), Discoknowium_52 (A5), DroogsArmy_54 (A7), Dublin_54 (A5), Echild_60 (A2), Eidsmoe_60 (A9), ElTiger69_57 (A5), EmyBug_59 (A9), ExplosioNervosa_60 (A9), Fayely_60 (A9), ForGetIt_54 (A5), George_52 (A5), Ghoulboy_57 (A5), HuhtaEnerson15_54 (A5), Jabiru_56 (A5), Journey13_54 (A2), Jovo_54 (A5), Koduck_61 (A2), L5_58 (A2), Lev2_54 (A5), LittleCherry_54 (A5), MarysWell_54 (A5), Micasa_55 (A5), Midas2_53 (A5), Milcery_54 (A5), Mundrea_55 (A4), MyraDee_54 (A18), Naca_55 (A5), PP_59 (A7), PetterN_59 (A5), Phlorence_52 (A5), PickleBack_54 (A5), Prinashe11_53 (A5), Priya_60 (A9), Qobbit_60 (A9), Scorpia_59 (A5), Sheen_58 (A7), Spouty_60 (A9), Swirley_56 (A5), SydNat_57 (A5), Tarynearal_52 (A5), Theia_53 (A5), Tiger_53 (A5), Timshel_55 (A7), TipsytheTRex_57 (A2), Twigg_54 (A5), UnionJack_88 (A5), Zimmer_57 (A12), Zolita_56 (A5),

Start 88:
• Found in 18 of 966 (1.9%) of genes in pham
• Manual Annotations of this start: 18 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aliter_60 (A9), Beemo_60 (A9), Catalina_61 (A9), Darrell_62 (A9), Hanray_60 (A9), Holex_60 (A9), HortumSL17_60 (A9), Jiawan_60 (A9), LoneWolf_61 (A9), Myxus_60 (A9), Onglai_59 (A9), PackMan_59 (A9), Phaeder_60 (A9), Phonnegut_60 (A9), Pioneer_60 (A9), RyeScarlet_60 (A9), Scherzo_60 (A9), Tubs_60 (A9),

Start 89:
• Found in 71 of 966 (7.3%) of genes in pham
• Manual Annotations of this start: 69 of 955
• Called 98.6% of time when present
• Phage (with cluster) where this start called: Aneem_61 (A11), ArcherNM_55 (A2), Arissanae_59 (A9), Artemis2UCLA_62 (A6), BABullseye_54 (A6), Bachome_62 (A11), Bellris_60 (A9), BennyP_62 (A6), BlessJoy_62 (A6), Blue7_63 (A6), BogosyJay_59 (A9), Bowtie_61 (A11), Candra_62 (A6), Chartreuse_60 (A6), CloudWang3_62 (A6), Cookiedough_61 (A6), Dorothea_61 (A6), Ebony_60 (A11), Elephantoon_59 (A9), EricB_60 (A6), Fibonacci_60 (A11), Flaverint_61 (A11), Gilberta_61 (A11), Gladiator_59 (A6), GreedyLawyer_60 (A6), Gruunaga_62 (A6), Hammer_62 (A6), Helmet_64 (A6), Hexamo_62 (A6), Hoot_56 (A6), Imbriano_63 (A6), Indra_65 (A6), Insomnia_61 (A11), Isiphiwo_59 (A6), Jabith_61 (A11), Jeffabunny_62 (A6), Joselito_61 (A11), Kazan_62 (A6), Kimba_60 (A11), Kipper29_61 (A6), Koko_63 (A6), Lilbunny_61 (A6), Lucivia_61 (A11), Maminiaina_59 (A9), McFly_61 (A6), Neeharika16_60 (A6), Newrala_61 (A6), Petersenfast_60 (A11), Pharaoh_55 (A12), Phlei_50 (A13), Pmask_60 (A6), Polyphemus_63 (A6), Rifter_62 (A6), Roksolana_63 (A6), Saskia_61 (A11), Sham4_60 (A11), SmellyB_61 (A6), Snape_60 (A11), SuperAwesome_61 (A6), Temprado_63 (A6), Timothy_60 (A11), TinyTimmy_60 (A11), ToneTone_59 (A6), Tucker_62 (A6), Vanisoa_60 (A9), VohminGhazi_61 (A6), Wiks_61 (A6), WunderPhul_62 (A6), Zaka_62 (A6), Zulu_63 (A6),

Start 90:
• Found in 1 of 966 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Keziacharles14_60 (A9),

Start 91:
• Found in 20 of 966 (2.1%) of genes in pham
• Manual Annotations of this start: 20 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anaysia_67 (A15), Battleship_69 (A15), Boohoo_67 (A15), DekHockey33_68 (A15), Epsocamisio_64 (A15), JSwag_66 (A15), KatherineG_67 (A15), LastResort_65 (A15), Looper_66 (A15), MinecraftSteve_67 (A15), Nebulosus_65 (A15), Oofda_68 (A15), Remus_67 (A15), Rosalind_65 (A15), ShayRa_67 (A15), Soups_67 (A15), Strosahl_67 (A15), Switzerland_66 (A15), Waits_67 (A15), Warrior24_69 (A15),

Start 92:
• Found in 68 of 966 (7.0%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 1.5% of time when present
• Phage (with cluster) where this start called: Poompha_55 (A10),

Start 93:
• Found in 3 of 966 (0.3%) of genes in pham
• Manual Annotations of this start: 3 of 955
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anon_65 (A15), Elle_61 (A15), Nedarya_63 (A15),

Start 94:
• Found in 1 of 966 (0.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tailonex_52 (singleton),

Start 95:
• Found in 3 of 966 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 33.3% of time when present
• Phage (with cluster) where this start called: RunningOnE_37 (JN),

Start 97:
• Found in 146 of 966 (15.1%) of genes in pham
• Manual Annotations of this start: 1 of 955
• Called 0.7% of time when present
• Phage (with cluster) where this start called: Ponzi_30 (singleton),

Start 108:
• Found in 206 of 966 (21.3%) of genes in pham
• Manual Annotations of this start: 2 of 955
• Called 1.0% of time when present
• Phage (with cluster) where this start called: JackSparrow_58 (A1), Rajelicia_56 (A1),

Summary by clusters:

There are 30 clusters represented in this pham: BF, singleton, BT, JN, A15, A14, A16, A11, A10, A13, A12, A18, A1, BD4, A3, BD6, BD1, A4, A7, BD2, A9, A8, A2, BD3, CA, A6, A5, A20, A21, A22,

Info for manual annotations of cluster A1:
•Start number 60 was manually annotated 2 times for cluster A1.
•Start number 66 was manually annotated 1 time for cluster A1.
•Start number 82 was manually annotated 204 times for cluster A1.
•Start number 108 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster A10:
•Start number 76 was manually annotated 4 times for cluster A10.
•Start number 80 was manually annotated 10 times for cluster A10.
•Start number 92 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A11:
•Start number 89 was manually annotated 18 times for cluster A11.

Info for manual annotations of cluster A12:
•Start number 82 was manually annotated 1 time for cluster A12.
•Start number 87 was manually annotated 1 time for cluster A12.
•Start number 89 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A14:
•Start number 81 was manually annotated 1 time for cluster A14.
•Start number 84 was manually annotated 1 time for cluster A14.

•Start number 85 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A15:
•Start number 91 was manually annotated 20 times for cluster A15.
•Start number 93 was manually annotated 3 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 84 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:
•Start number 87 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:
•Start number 43 was manually annotated 1 time for cluster A2.
•Start number 49 was manually annotated 1 time for cluster A2.
•Start number 61 was manually annotated 1 time for cluster A2.
•Start number 67 was manually annotated 1 time for cluster A2.
•Start number 72 was manually annotated 58 times for cluster A2.
•Start number 75 was manually annotated 2 times for cluster A2.
•Start number 82 was manually annotated 18 times for cluster A2.
•Start number 83 was manually annotated 1 time for cluster A2.
•Start number 84 was manually annotated 20 times for cluster A2.
•Start number 87 was manually annotated 6 times for cluster A2.
•Start number 89 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:
•Start number 84 was manually annotated 2 times for cluster A20.

Info for manual annotations of cluster A21:
•Start number 81 was manually annotated 1 time for cluster A21.

Info for manual annotations of cluster A22:
•Start number 70 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 76 was manually annotated 6 times for cluster A3.
•Start number 79 was manually annotated 28 times for cluster A3.
•Start number 84 was manually annotated 77 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 73 was manually annotated 1 time for cluster A4.
•Start number 80 was manually annotated 117 times for cluster A4.
•Start number 86 was manually annotated 21 times for cluster A4.
•Start number 87 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A5:
•Start number 50 was manually annotated 1 time for cluster A5.
•Start number 87 was manually annotated 39 times for cluster A5.

Info for manual annotations of cluster A6:
•Start number 58 was manually annotated 4 times for cluster A6.
•Start number 89 was manually annotated 43 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 84 was manually annotated 1 time for cluster A7.
•Start number 87 was manually annotated 4 times for cluster A7.

Info for manual annotations of cluster A8:
•Start number 84 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:
•Start number 64 was manually annotated 3 times for cluster A9.
•Start number 67 was manually annotated 1 time for cluster A9.
•Start number 78 was manually annotated 4 times for cluster A9.
•Start number 80 was manually annotated 1 time for cluster A9.
•Start number 87 was manually annotated 10 times for cluster A9.
•Start number 88 was manually annotated 18 times for cluster A9.
•Start number 89 was manually annotated 6 times for cluster A9.
•Start number 90 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster BD1:
•Start number 54 was manually annotated 8 times for cluster BD1.
•Start number 55 was manually annotated 43 times for cluster BD1.
•Start number 63 was manually annotated 2 times for cluster BD1.
•Start number 83 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 57 was manually annotated 1 time for cluster BD2.
•Start number 66 was manually annotated 1 time for cluster BD2.
•Start number 69 was manually annotated 27 times for cluster BD2.
•Start number 77 was manually annotated 4 times for cluster BD2.

Info for manual annotations of cluster BD3:
•Start number 53 was manually annotated 14 times for cluster BD3.

Info for manual annotations of cluster BD4:
•Start number 69 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:
•Start number 55 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BF:
•Start number 69 was manually annotated 6 times for cluster BF.
•Start number 71 was manually annotated 12 times for cluster BF.

Info for manual annotations of cluster BT:
•Start number 77 was manually annotated 2 times for cluster BT.

Info for manual annotations of cluster CA:
•Start number 40 was manually annotated 1 time for cluster CA.
•Start number 83 was manually annotated 35 times for cluster CA.

Info for manual annotations of cluster JN:
•Start number 68 was manually annotated 1 time for cluster JN.
•Start number 95 was manually annotated 1 time for cluster JN.

Gene Information:

Gene: 20ES_63 Start: 39573, Stop: 39181, Start Num: 84
Candidate Starts for 20ES_63:
(Start: 84 @39573 has 115 MA's), (120, 39414), (123, 39390), (131, 39360), (134, 39318),

Gene: AFIS_53 Start: 38460, Stop: 38050, Start Num: 82
Candidate Starts for AFIS_53:
(Start: 82 @38460 has 223 MA's), (Start: 108 @38379 has 2 MA's), (127, 38256),

Gene: AN3_63 Start: 38288, Stop: 37896, Start Num: 84
Candidate Starts for AN3_63:
(Start: 84 @38288 has 115 MA's), (120, 38129), (123, 38105), (131, 38075), (134, 38033),

Gene: AN9_63 Start: 39554, Stop: 39165, Start Num: 82
Candidate Starts for AN9_63:
(28, 39698), (35, 39677), (Start: 82 @39554 has 223 MA's), (123, 39374), (131, 39344), (134, 39302),

Gene: ANI8_63 Start: 39554, Stop: 39165, Start Num: 82
Candidate Starts for ANI8_63:
(28, 39698), (35, 39677), (Start: 82 @39554 has 223 MA's), (123, 39374), (131, 39344), (134, 39302),

Gene: AbbyPaige_62 Start: 39636, Stop: 39235, Start Num: 72
Candidate Starts for AbbyPaige_62:
(Start: 49 @39681 has 1 MA's), (Start: 72 @39636 has 58 MA's), (123, 39444), (131, 39414), (134, 39372),

Gene: AbbysRanger_55 Start: 38326, Stop: 37922, Start Num: 86
Candidate Starts for AbbysRanger_55:
(Start: 86 @38326 has 21 MA's), (111, 38236), (114, 38197), (123, 38143), (131, 38113),

Gene: Abdiel_56 Start: 38369, Stop: 37956, Start Num: 80
Candidate Starts for Abdiel_56:
(Start: 80 @38369 has 128 MA's), (116, 38222), (122, 38189), (123, 38177), (131, 38147),

Gene: Abrogate_550 Start: 40397, Stop: 39882, Start Num: 82
Candidate Starts for Abrogate_550:
(Start: 82 @40397 has 223 MA's), (Start: 108 @40316 has 2 MA's), (114, 40262), (125, 40199), (126, 40196), (127, 40193), (131, 40178), (139, 39950), (140, 39932),

Gene: Achebe_54 Start: 38309, Stop: 37905, Start Num: 86
Candidate Starts for Achebe_54:
(Start: 86 @38309 has 21 MA's), (111, 38219), (114, 38180), (123, 38126), (131, 38096),

Gene: Acme_57 Start: 38994, Stop: 38479, Start Num: 82
Candidate Starts for Acme_57:
(Start: 82 @38994 has 223 MA's), (Start: 108 @38913 has 2 MA's), (114, 38859), (125, 38796), (127, 38790), (131, 38775), (139, 38547), (140, 38529),

Gene: Acolyte_55 Start: 38449, Stop: 38057, Start Num: 84
Candidate Starts for Acolyte_55:

(Start: 84 @38449 has 115 MA's), (123, 38266), (131, 38236), (134, 38194),

Gene: Adahisdi_56 Start: 40127, Stop: 39612, Start Num: 82
Candidate Starts for Adahisdi_56:
(Start: 82 @40127 has 223 MA's), (Start: 108 @40046 has 2 MA's), (114, 39992), (125, 39929), (127, 39923), (131, 39908), (139, 39680), (140, 39662),

Gene: Adzzy_61 Start: 38099, Stop: 37707, Start Num: 84
Candidate Starts for Adzzy_61:
(Start: 84 @38099 has 115 MA's), (Start: 97 @38072 has 1 MA's), (123, 37916), (131, 37886), (134, 37844),

Gene: Aeneas_58 Start: 40365, Stop: 39829, Start Num: 66
Candidate Starts for Aeneas_58:
(Start: 60 @40374 has 2 MA's), (Start: 66 @40365 has 2 MA's), (117, 40197), (120, 40179), (125, 40146), (127, 40140), (131, 40125), (139, 39897), (140, 39879),

Gene: Agape74_62 Start: 39630, Stop: 39229, Start Num: 72
Candidate Starts for Agape74_62:
(Start: 49 @39675 has 1 MA's), (Start: 72 @39630 has 58 MA's), (123, 39438), (131, 39408), (134, 39366),

Gene: AgentM_53 Start: 38350, Stop: 37940, Start Num: 87
Candidate Starts for AgentM_53:
(Start: 87 @38350 has 62 MA's), (115, 38215), (121, 38188), (122, 38179), (131, 38137),

Gene: Aglet_64 Start: 39122, Stop: 38715, Start Num: 84
Candidate Starts for Aglet_64:
(Start: 84 @39122 has 115 MA's), (Start: 92 @39107 has 1 MA's), (Start: 97 @39095 has 1 MA's), (109, 39038), (124, 38933), (131, 38906),

Gene: AgronaGT15_62 Start: 38970, Stop: 38563, Start Num: 84
Candidate Starts for AgronaGT15_62:
(Start: 84 @38970 has 115 MA's), (Start: 92 @38955 has 1 MA's), (Start: 97 @38943 has 1 MA's), (109, 38886), (124, 38781), (131, 38754),

Gene: Airmid_55 Start: 38494, Stop: 38084, Start Num: 87
Candidate Starts for Airmid_55:
(Start: 87 @38494 has 62 MA's), (115, 38359), (122, 38323), (131, 38281),

Gene: Ajay_57 Start: 40122, Stop: 39607, Start Num: 82
Candidate Starts for Ajay_57:
(Start: 82 @40122 has 223 MA's), (Start: 108 @40041 has 2 MA's), (114, 39987), (125, 39924), (127, 39918), (131, 39903), (139, 39675), (140, 39657),

Gene: Alatin_48 Start: 35573, Stop: 35163, Start Num: 83
Candidate Starts for Alatin_48:
(Start: 40 @35669 has 1 MA's), (Start: 83 @35573 has 37 MA's), (Start: 97 @35543 has 1 MA's), (106, 35507), (129, 35363), (131, 35354),

Gene: Albee_56 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Albee_56:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Alberto7_57 Start: 38705, Stop: 38292, Start Num: 80
Candidate Starts for Alberto7_57:
(Start: 80 @38705 has 128 MA's), (116, 38558), (122, 38525), (123, 38513), (131, 38483),

Gene: Aldrich_55 Start: 39692, Stop: 39177, Start Num: 82
Candidate Starts for Aldrich_55:
(Start: 82 @39692 has 223 MA's), (Start: 108 @39611 has 2 MA's), (114, 39557), (125, 39494), (127, 39488), (131, 39473), (139, 39245), (140, 39227),

Gene: Aliter_60 Start: 38999, Stop: 38616, Start Num: 88
Candidate Starts for Aliter_60:
(Start: 64 @39029 has 3 MA's), (Start: 88 @38999 has 18 MA's), (120, 38843), (123, 38819), (131, 38789), (134, 38747),

Gene: Alma_60 Start: 39374, Stop: 38991, Start Num: 87
Candidate Starts for Alma_60:
(Start: 69 @39401 has 36 MA's), (Start: 87 @39374 has 62 MA's), (120, 39218), (123, 39194), (131, 39164), (134, 39122),

Gene: Alpacados_48 Start: 35475, Stop: 35065, Start Num: 83
Candidate Starts for Alpacados_48:
(Start: 40 @35571 has 1 MA's), (Start: 83 @35475 has 37 MA's), (Start: 97 @35445 has 1 MA's), (106, 35409), (129, 35265), (131, 35256),

Gene: Alsaber_40 Start: 29436, Stop: 29873, Start Num: 53
Candidate Starts for Alsaber_40:
(Start: 53 @29436 has 14 MA's), (99, 29520), (110, 29568), (113, 29607), (125, 29676), (127, 29682), (128, 29685),

Gene: Alsfro_60 Start: 39698, Stop: 39183, Start Num: 82
Candidate Starts for Alsfro_60:
(Start: 82 @39698 has 223 MA's), (Start: 108 @39617 has 2 MA's), (114, 39563), (125, 39500), (127, 39494), (131, 39479), (139, 39251), (140, 39233),

Gene: Altman_59 Start: 40314, Stop: 39799, Start Num: 82
Candidate Starts for Altman_59:
(Start: 82 @40314 has 223 MA's), (Start: 108 @40233 has 2 MA's), (114, 40179), (125, 40116), (127, 40110), (131, 40095), (139, 39867), (140, 39849),

Gene: Alvin_55 Start: 39447, Stop: 38932, Start Num: 82
Candidate Starts for Alvin_55:
(Start: 82 @39447 has 223 MA's), (Start: 108 @39366 has 2 MA's), (114, 39312), (125, 39249), (127, 39243), (131, 39228), (139, 39000), (140, 38982),

Gene: Alvy_41 Start: 28916, Stop: 29350, Start Num: 69
Candidate Starts for Alvy_41:
(8, 28610), (29, 28793), (42, 28850), (Start: 69 @28916 has 36 MA's), (101, 28985), (110, 29030), (113, 29069), (125, 29138), (138, 29327),

Gene: Amela_39 Start: 30243, Stop: 30680, Start Num: 53
Candidate Starts for Amela_39:

(Start: 53 @30243 has 14 MA's), (99, 30327), (110, 30375), (113, 30414), (125, 30483), (127, 30489), (128, 30492),

Gene: Amethyst_38 Start: 28284, Stop: 28715, Start Num: 69
Candidate Starts for Amethyst_38:
(Start: 69 @28284 has 36 MA's), (99, 28350), (101, 28353), (110, 28398), (113, 28437), (125, 28506), (133, 28554), (138, 28692),

Gene: Anaysia_67 Start: 38716, Stop: 38336, Start Num: 91
Candidate Starts for Anaysia_67:
(Start: 91 @38716 has 20 MA's), (120, 38569), (131, 38512), (134, 38470),

Gene: Andris_38 Start: 28339, Stop: 28776, Start Num: 69
Candidate Starts for Andris_38:
(Start: 69 @28339 has 36 MA's), (103, 28426), (110, 28456), (113, 28495),

Gene: Aneem_61 Start: 38877, Stop: 38488, Start Num: 89
Candidate Starts for Aneem_61:
(1, 39306), (4, 39243), (28, 39021), (Start: 89 @38877 has 69 MA's), (131, 38667), (134, 38625),

Gene: Anglerfish_57 Start: 40357, Stop: 39947, Start Num: 82
Candidate Starts for Anglerfish_57:
(Start: 82 @40357 has 223 MA's), (Start: 108 @40276 has 2 MA's), (127, 40153),

Gene: AngryOrchard_47 Start: 35635, Stop: 35225, Start Num: 83
Candidate Starts for AngryOrchard_47:
(Start: 40 @35731 has 1 MA's), (Start: 83 @35635 has 37 MA's), (Start: 97 @35605 has 1 MA's), (106, 35569), (129, 35425), (131, 35416),

Gene: Animus_38 Start: 28772, Stop: 29191, Start Num: 77
Candidate Starts for Animus_38:
(59, 28748), (Start: 69 @28757 has 36 MA's), (Start: 77 @28772 has 6 MA's), (101, 28826), (110, 28871), (113, 28910), (132, 29006), (138, 29168),

Gene: AnnaL29_62 Start: 39988, Stop: 39593, Start Num: 82
Candidate Starts for AnnaL29_62:
(16, 40228), (28, 40132), (Start: 82 @39988 has 223 MA's), (Start: 97 @39958 has 1 MA's), (131, 39772), (134, 39730),

Gene: Annyong_56 Start: 38413, Stop: 38000, Start Num: 80
Candidate Starts for Annyong_56:
(Start: 80 @38413 has 128 MA's), (114, 38275), (116, 38266), (122, 38233), (123, 38221), (131, 38191),

Gene: Anon_65 Start: 38474, Stop: 38100, Start Num: 93
Candidate Starts for Anon_65:
(Start: 93 @38474 has 3 MA's), (Start: 97 @38462 has 1 MA's), (114, 38360), (120, 38330), (122, 38318), (131, 38276), (134, 38234),

Gene: Anselm_61 Start: 39540, Stop: 39136, Start Num: 72
Candidate Starts for Anselm_61:
(Start: 40 @39615 has 1 MA's), (Start: 72 @39540 has 58 MA's), (131, 39315), (134, 39273),

Gene: Anthony_57 Start: 37294, Stop: 36890, Start Num: 84
Candidate Starts for Anthony_57:
(Start: 84 @37294 has 115 MA's), (Start: 97 @37270 has 1 MA's), (123, 37111), (131, 37081), (135, 36961),

Gene: Anubis_66 Start: 39008, Stop: 38601, Start Num: 84
Candidate Starts for Anubis_66:
(Start: 84 @39008 has 115 MA's), (Start: 92 @38993 has 1 MA's), (109, 38924), (124, 38819), (131, 38792),

Gene: AppleCloud_46 Start: 35300, Stop: 34890, Start Num: 83
Candidate Starts for AppleCloud_46:
(Start: 40 @35396 has 1 MA's), (Start: 83 @35300 has 37 MA's), (Start: 97 @35270 has 1 MA's), (106, 35234), (129, 35090), (131, 35081),

Gene: Applejack_50 Start: 36284, Stop: 35769, Start Num: 82
Candidate Starts for Applejack_50:
(Start: 82 @36284 has 223 MA's), (Start: 108 @36203 has 2 MA's), (114, 36149), (125, 36086), (127, 36080), (131, 36065), (139, 35837), (140, 35819),

Gene: Aragog_53 Start: 38370, Stop: 37960, Start Num: 87
Candidate Starts for Aragog_53:
(Start: 87 @38370 has 62 MA's), (115, 38235), (121, 38208), (122, 38199), (131, 38157),

Gene: ArcherNM_55 Start: 38984, Stop: 38595, Start Num: 89
Candidate Starts for ArcherNM_55:
(Start: 89 @38984 has 69 MA's), (123, 38804), (131, 38774), (134, 38732),

Gene: Archetta_53 Start: 38780, Stop: 38370, Start Num: 87
Candidate Starts for Archetta_53:
(Start: 87 @38780 has 62 MA's), (115, 38645), (121, 38618), (122, 38609), (131, 38567),

Gene: Arissanae_59 Start: 39690, Stop: 39304, Start Num: 89
Candidate Starts for Arissanae_59:
(Start: 89 @39690 has 69 MA's), (111, 39600), (120, 39531), (123, 39507), (131, 39477),

Gene: Arlo_54 Start: 38524, Stop: 38114, Start Num: 82
Candidate Starts for Arlo_54:
(Start: 82 @38524 has 223 MA's), (102, 38467), (Start: 108 @38443 has 2 MA's), (127, 38320),

Gene: Artemis2UCLA_62 Start: 38052, Stop: 37663, Start Num: 89
Candidate Starts for Artemis2UCLA_62:
(Start: 89 @38052 has 69 MA's), (123, 37872), (131, 37842), (134, 37800),

Gene: Arturo_55 Start: 38598, Stop: 38194, Start Num: 86
Candidate Starts for Arturo_55:
(Start: 86 @38598 has 21 MA's), (111, 38508), (114, 38469), (122, 38427), (123, 38415), (131, 38385),

Gene: Ashballer_58 Start: 40207, Stop: 39692, Start Num: 82
Candidate Starts for Ashballer_58:
(Start: 82 @40207 has 223 MA's), (102, 40150), (Start: 108 @40126 has 2 MA's), (114, 40072), (125, 40009), (127, 40003), (131, 39988), (139, 39760), (140, 39742),

Gene: Asten_38 Start: 27911, Stop: 28345, Start Num: 55
Candidate Starts for Asten_38:
(Start: 55 @27911 has 47 MA's), (Start: 63 @27926 has 2 MA's), (110, 28040), (127, 28154),

Gene: Astro_60 Start: 38374, Stop: 37961, Start Num: 84
Candidate Starts for Astro_60:
(Start: 84 @38374 has 115 MA's), (Start: 97 @38347 has 1 MA's), (121, 38209), (122, 38200),

Gene: Atkinbua_59 Start: 39920, Stop: 39510, Start Num: 82
Candidate Starts for Atkinbua_59:
(Start: 82 @39920 has 223 MA's), (Start: 108 @39839 has 2 MA's), (127, 39716),

Gene: AugsMagnumOpus_66 Start: 39113, Stop: 38706, Start Num: 84
Candidate Starts for AugsMagnumOpus_66:
(Start: 84 @39113 has 115 MA's), (Start: 92 @39098 has 1 MA's), (Start: 97 @39086 has 1 MA's), (109, 39029), (124, 38924), (131, 38897),

Gene: AvatarAhPeg_54 Start: 38111, Stop: 37707, Start Num: 86
Candidate Starts for AvatarAhPeg_54:
(Start: 86 @38111 has 21 MA's), (114, 37982), (123, 37928), (131, 37898),

Gene: Avle17_56 Start: 38365, Stop: 37952, Start Num: 80
Candidate Starts for Avle17_56:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: Axiom_39 Start: 28502, Stop: 28936, Start Num: 69
Candidate Starts for Axiom_39:
(36, 28406), (Start: 69 @28502 has 36 MA's), (101, 28571), (110, 28616), (113, 28655), (132, 28751), (138, 28913),

Gene: Ayanochan_59 Start: 39157, Stop: 38774, Start Num: 87
Candidate Starts for Ayanochan_59:
(Start: 69 @39184 has 36 MA's), (Start: 87 @39157 has 62 MA's), (120, 39001), (123, 38977), (131, 38947), (134, 38905),

Gene: BABullseye_54 Start: 35607, Stop: 35215, Start Num: 89
Candidate Starts for BABullseye_54:
(Start: 89 @35607 has 69 MA's), (Start: 108 @35532 has 2 MA's), (123, 35424), (131, 35394), (134, 35352),

Gene: BPBiebs31_57 Start: 40409, Stop: 39894, Start Num: 82
Candidate Starts for BPBiebs31_57:
(Start: 82 @40409 has 223 MA's), (Start: 108 @40328 has 2 MA's), (114, 40274), (125, 40211), (127, 40205), (131, 40190), (139, 39962), (140, 39944),

Gene: Baby16_56 Start: 38379, Stop: 37966, Start Num: 80
Candidate Starts for Baby16_56:
(Start: 80 @38379 has 128 MA's), (116, 38232), (122, 38199), (123, 38187), (131, 38157),

Gene: BabyBack_58 Start: 39634, Stop: 39230, Start Num: 72
Candidate Starts for BabyBack_58:
(Start: 72 @39634 has 58 MA's), (123, 39439), (131, 39409), (134, 39367),

Gene: BabyRay_59 Start: 38728, Stop: 38321, Start Num: 79
Candidate Starts for BabyRay_59:
(Start: 79 @38728 has 28 MA's), (114, 38596), (124, 38539), (131, 38512),

Gene: Bachome_62 Start: 38857, Stop: 38468, Start Num: 89
Candidate Starts for Bachome_62:
(1, 39286), (4, 39223), (28, 39001), (Start: 89 @38857 has 69 MA's), (131, 38647), (134, 38605),

Gene: Backyardigan_53 Start: 38342, Stop: 37938, Start Num: 86
Candidate Starts for Backyardigan_53:
(Start: 86 @38342 has 21 MA's), (111, 38252), (114, 38213), (123, 38159), (131, 38129),

Gene: Bactobuster_58 Start: 39948, Stop: 39544, Start Num: 72
Candidate Starts for Bactobuster_58:
(Start: 43 @40014 has 1 MA's), (Start: 49 @39996 has 1 MA's), (51, 39990), (52, 39984), (Start: 72 @39948 has 58 MA's), (120, 39777), (122, 39765), (123, 39753), (131, 39723), (134, 39681),

Gene: Badger_54 Start: 38310, Stop: 37906, Start Num: 86
Candidate Starts for Badger_54:
(Start: 86 @38310 has 21 MA's), (111, 38220), (114, 38181), (123, 38127), (131, 38097),

Gene: Baehexic_59 Start: 39111, Stop: 38707, Start Num: 72
Candidate Starts for Baehexic_59:
(52, 39144), (Start: 67 @39117 has 2 MA's), (Start: 72 @39111 has 58 MA's), (123, 38916), (131, 38886),

Gene: BangNhom_56 Start: 38771, Stop: 38358, Start Num: 80
Candidate Starts for BangNhom_56:
(Start: 80 @38771 has 128 MA's), (116, 38624), (123, 38579), (131, 38549),

Gene: Barriga_56 Start: 38634, Stop: 38119, Start Num: 82
Candidate Starts for Barriga_56:
(Start: 82 @38634 has 223 MA's), (Start: 108 @38553 has 2 MA's), (114, 38499), (125, 38436), (127, 38430), (131, 38415), (139, 38187), (140, 38169),

Gene: BarrowTuph_56 Start: 39460, Stop: 38918, Start Num: 82
Candidate Starts for BarrowTuph_56:
(12, 39730), (Start: 82 @39460 has 223 MA's), (Start: 108 @39379 has 2 MA's), (114, 39325), (125, 39262), (127, 39256), (131, 39241), (139, 39013), (140, 38995),

Gene: BarryBee_41 Start: 27921, Stop: 28355, Start Num: 55
Candidate Starts for BarryBee_41:
(Start: 55 @27921 has 47 MA's), (Start: 63 @27936 has 2 MA's), (110, 28050), (127, 28164),

Gene: BartholomewSD_41 Start: 28915, Stop: 29349, Start Num: 69
Candidate Starts for BartholomewSD_41:
(8, 28609), (29, 28792), (Start: 69 @28915 has 36 MA's), (101, 28984), (110, 29029), (113, 29068), (125, 29137), (138, 29326),

Gene: Bartimeaus_56 Start: 38370, Stop: 37957, Start Num: 80
Candidate Starts for Bartimeaus_56:
(Start: 80 @38370 has 128 MA's), (116, 38223), (122, 38190), (123, 38178), (131, 38148),

Gene: Battleship_69 Start: 38922, Stop: 38542, Start Num: 91
Candidate Starts for Battleship_69:
(Start: 91 @38922 has 20 MA's), (120, 38775), (131, 38718), (134, 38676),

Gene: BeardedLady_39 Start: 27805, Stop: 28236, Start Num: 55
Candidate Starts for BeardedLady_39:
(Start: 55 @27805 has 47 MA's), (Start: 83 @27850 has 37 MA's), (110, 27931), (125, 28039), (127, 28045),

Gene: Beatrix_55 Start: 40340, Stop: 39798, Start Num: 82
Candidate Starts for Beatrix_55:
(12, 40610), (17, 40574), (Start: 82 @40340 has 223 MA's), (Start: 108 @40259 has 2 MA's), (114, 40205), (125, 40142), (127, 40136), (131, 40121), (139, 39893), (140, 39875),

Gene: Beauxregard13_63 Start: 39125, Stop: 38718, Start Num: 84
Candidate Starts for Beauxregard13_63:
(Start: 84 @39125 has 115 MA's), (Start: 92 @39110 has 1 MA's), (Start: 97 @39098 has 1 MA's), (109, 39041), (124, 38936), (131, 38909),

Gene: Beemo_60 Start: 39169, Stop: 38786, Start Num: 88
Candidate Starts for Beemo_60:
(Start: 64 @39199 has 3 MA's), (Start: 88 @39169 has 18 MA's), (120, 39013), (123, 38989), (131, 38959), (134, 38917),

Gene: BeesKnees_58 Start: 39493, Stop: 38978, Start Num: 82
Candidate Starts for BeesKnees_58:
(Start: 82 @39493 has 223 MA's), (Start: 108 @39412 has 2 MA's), (114, 39358), (125, 39295), (127, 39289), (131, 39274), (139, 39046), (140, 39028),

Gene: Belenaria_49 Start: 35448, Stop: 35038, Start Num: 83
Candidate Starts for Belenaria_49:
(Start: 40 @35544 has 1 MA's), (Start: 83 @35448 has 37 MA's), (Start: 97 @35418 has 1 MA's), (106, 35382), (129, 35238), (131, 35229),

Gene: Bellris_60 Start: 38835, Stop: 38449, Start Num: 89
Candidate Starts for Bellris_60:
(Start: 89 @38835 has 69 MA's), (120, 38676), (123, 38652), (131, 38622),

Gene: BellusTerra_57 Start: 38369, Stop: 37956, Start Num: 80
Candidate Starts for BellusTerra_57:
(Start: 80 @38369 has 128 MA's), (116, 38222), (122, 38189), (123, 38177), (131, 38147),

Gene: Benedict_58 Start: 38742, Stop: 38332, Start Num: 87
Candidate Starts for Benedict_58:
(Start: 87 @38742 has 62 MA's), (115, 38607), (121, 38580), (122, 38571), (131, 38529),

Gene: BengiVuitton_61 Start: 39544, Stop: 39152, Start Num: 84
Candidate Starts for BengiVuitton_61:
(Start: 84 @39544 has 115 MA's), (120, 39385), (123, 39361), (131, 39331), (134, 39289),

Gene: BennyP_62 Start: 38122, Stop: 37733, Start Num: 89
Candidate Starts for BennyP_62:
(Start: 89 @38122 has 69 MA's), (123, 37942), (131, 37912), (134, 37870),

Gene: Benvolio_57 Start: 38549, Stop: 38160, Start Num: 87
Candidate Starts for Benvolio_57:
(Start: 87 @38549 has 62 MA's), (131, 38339), (134, 38297),

Gene: Bethlehem_56 Start: 40991, Stop: 40581, Start Num: 82
Candidate Starts for Bethlehem_56:
(Start: 82 @40991 has 223 MA's), (Start: 108 @40910 has 2 MA's), (127, 40787),

Gene: Bexan_53 Start: 40119, Stop: 39604, Start Num: 82
Candidate Starts for Bexan_53:
(12, 40389), (17, 40353), (Start: 82 @40119 has 223 MA's), (Start: 108 @40038 has 2 MA's), (114, 39984), (125, 39921), (127, 39915), (131, 39900), (139, 39672), (140, 39654),

Gene: BiancaTri92_60 Start: 39704, Stop: 39300, Start Num: 72
Candidate Starts for BiancaTri92_60:
(Start: 49 @39752 has 1 MA's), (Start: 72 @39704 has 58 MA's), (123, 39509), (131, 39479), (134, 39437),

Gene: BigMau_57 Start: 38862, Stop: 38452, Start Num: 82
Candidate Starts for BigMau_57:
(Start: 82 @38862 has 223 MA's), (Start: 108 @38781 has 2 MA's), (127, 38658),

Gene: BigPaolini_55 Start: 37719, Stop: 37204, Start Num: 82
Candidate Starts for BigPaolini_55:
(Start: 82 @37719 has 223 MA's), (Start: 108 @37638 has 2 MA's), (114, 37584), (125, 37521), (127, 37515), (131, 37500), (139, 37272), (140, 37254),

Gene: Bigchungi_56 Start: 38878, Stop: 38363, Start Num: 82
Candidate Starts for Bigchungi_56:
(Start: 82 @38878 has 223 MA's), (Start: 108 @38797 has 2 MA's), (114, 38743), (125, 38680), (127, 38674), (131, 38659), (139, 38431), (140, 38413),

Gene: Bigflo_63 Start: 39121, Stop: 38714, Start Num: 84
Candidate Starts for Bigflo_63:
(Start: 84 @39121 has 115 MA's), (Start: 92 @39106 has 1 MA's), (Start: 97 @39094 has 1 MA's), (109, 39037), (124, 38932), (131, 38905),

Gene: Bimmel_28 Start: 18955, Stop: 18557, Start Num: 77
Candidate Starts for Bimmel_28:
(74, 18958), (Start: 77 @18955 has 6 MA's), (109, 18871), (114, 18817), (125, 18754), (127, 18748),

Gene: Bircsak_54 Start: 40238, Stop: 39723, Start Num: 82
Candidate Starts for Bircsak_54:
(Start: 82 @40238 has 223 MA's), (Start: 108 @40157 has 2 MA's), (114, 40103), (125, 40040), (127, 40034), (131, 40019), (139, 39791), (140, 39773),

Gene: Blackmoor_56 Start: 38370, Stop: 37957, Start Num: 80
Candidate Starts for Blackmoor_56:
(Start: 80 @38370 has 128 MA's), (116, 38223), (122, 38190), (123, 38178), (131, 38148),

Gene: BlessJoy_62 Start: 38478, Stop: 38089, Start Num: 89
Candidate Starts for BlessJoy_62:

(Start: 89 @38478 has 69 MA's), (123, 38298), (131, 38268), (134, 38226),

Gene: Blesser_54 Start: 39105, Stop: 38590, Start Num: 82
Candidate Starts for Blesser_54:
(Start: 82 @39105 has 223 MA's), (Start: 108 @39024 has 2 MA's), (114, 38970), (125, 38907), (127, 38901), (131, 38886), (139, 38658), (140, 38640),

Gene: Blinn1_64 Start: 38109, Stop: 37681, Start Num: 58
Candidate Starts for Blinn1_64:
(Start: 58 @38109 has 4 MA's), (Start: 84 @38073 has 115 MA's), (122, 37902), (123, 37890), (131, 37860), (134, 37818),

Gene: BluSpix_54 Start: 35500, Stop: 34985, Start Num: 82
Candidate Starts for BluSpix_54:
(Start: 82 @35500 has 223 MA's), (102, 35443), (Start: 108 @35419 has 2 MA's), (114, 35365), (125, 35302), (127, 35296), (131, 35281), (139, 35053), (140, 35035),

Gene: Blue_55 Start: 40154, Stop: 39639, Start Num: 82
Candidate Starts for Blue_55:
(Start: 82 @40154 has 223 MA's), (Start: 108 @40073 has 2 MA's), (114, 40019), (125, 39956), (127, 39950), (131, 39935), (139, 39707), (140, 39689),

Gene: Blue7_63 Start: 38146, Stop: 37757, Start Num: 89
Candidate Starts for Blue7_63:
(Start: 89 @38146 has 69 MA's), (123, 37966), (131, 37936), (134, 37894),

Gene: BlueBird_61 Start: 38772, Stop: 38365, Start Num: 79
Candidate Starts for BlueBird_61:
(Start: 79 @38772 has 28 MA's), (114, 38640), (124, 38583), (131, 38556),

Gene: Bluefalcon_53 Start: 38991, Stop: 38515, Start Num: 50
Candidate Starts for Bluefalcon_53:
(2, 39357), (3, 39324), (5, 39294), (7, 39270), (10, 39249), (11, 39234), (13, 39207), (19, 39147), (25, 39108), (26, 39099), (34, 39060), (Start: 50 @38991 has 1 MA's), (Start: 87 @38925 has 62 MA's), (115, 38790), (121, 38763), (122, 38754), (131, 38712),

Gene: Bob3_54 Start: 38128, Stop: 37613, Start Num: 82
Candidate Starts for Bob3_54:
(Start: 82 @38128 has 223 MA's), (Start: 108 @38047 has 2 MA's), (114, 37993), (125, 37930), (127, 37924), (131, 37909), (139, 37681), (140, 37663),

Gene: BobSwaget_56 Start: 38031, Stop: 37636, Start Num: 82
Candidate Starts for BobSwaget_56:
(Start: 82 @38031 has 223 MA's), (123, 37845), (131, 37815), (134, 37773),

Gene: BobbyDazzler_49 Start: 35552, Stop: 35142, Start Num: 83
Candidate Starts for BobbyDazzler_49:
(Start: 40 @35648 has 1 MA's), (Start: 83 @35552 has 37 MA's), (Start: 97 @35522 has 1 MA's), (106, 35486), (129, 35342), (131, 35333),

Gene: BogosyJay_59 Start: 39091, Stop: 38705, Start Num: 89
Candidate Starts for BogosyJay_59:
(Start: 89 @39091 has 69 MA's), (120, 38932), (122, 38920), (123, 38908), (131, 38878), (134, 38836),

Gene: Bombshell_56 Start: 38365, Stop: 37952, Start Num: 80
Candidate Starts for Bombshell_56:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: Bonamassa_54 Start: 38799, Stop: 38389, Start Num: 87
Candidate Starts for Bonamassa_54:
(Start: 87 @38799 has 62 MA's), (115, 38664), (121, 38637), (122, 38628), (131, 38586),

Gene: Bonanza_49 Start: 35477, Stop: 35067, Start Num: 83
Candidate Starts for Bonanza_49:
(Start: 40 @35573 has 1 MA's), (Start: 83 @35477 has 37 MA's), (Start: 97 @35447 has 1 MA's), (106, 35411), (129, 35267), (131, 35258),

Gene: Bones_56 Start: 40534, Stop: 40118, Start Num: 82
Candidate Starts for Bones_56:
(Start: 82 @40534 has 223 MA's), (120, 40369), (127, 40330), (131, 40315),

Gene: Boohoo_67 Start: 38716, Stop: 38336, Start Num: 91
Candidate Starts for Boohoo_67:
(Start: 91 @38716 has 20 MA's), (120, 38569), (131, 38512), (134, 38470),

Gene: Bovely_38 Start: 27558, Stop: 27989, Start Num: 55
Candidate Starts for Bovely_38:
(Start: 55 @27558 has 47 MA's), (Start: 83 @27603 has 37 MA's), (110, 27684), (125, 27792), (127, 27798),

Gene: Bowden_39 Start: 28831, Stop: 29265, Start Num: 69
Candidate Starts for Bowden_39:
(29, 28708), (42, 28765), (Start: 69 @28831 has 36 MA's), (101, 28900), (110, 28945), (113, 28984), (125, 29053), (138, 29242),

Gene: Bowtie_61 Start: 38884, Stop: 38495, Start Num: 89
Candidate Starts for Bowtie_61:
(Start: 89 @38884 has 69 MA's), (131, 38674), (134, 38632),

Gene: Bradshaw_49 Start: 35506, Stop: 35096, Start Num: 83
Candidate Starts for Bradshaw_49:
(Start: 40 @35602 has 1 MA's), (Start: 83 @35506 has 37 MA's), (Start: 97 @35476 has 1 MA's), (106, 35440), (129, 35296), (131, 35287),

Gene: Brataylor_41 Start: 28894, Stop: 29328, Start Num: 54
Candidate Starts for Brataylor_41:
(Start: 43 @28867 has 1 MA's), (Start: 54 @28894 has 8 MA's), (Start: 63 @28909 has 2 MA's), (105, 28996), (110, 29023), (125, 29131), (127, 29137),

Gene: BreSam8_63 Start: 39115, Stop: 38708, Start Num: 84
Candidate Starts for BreSam8_63:
(Start: 84 @39115 has 115 MA's), (Start: 92 @39100 has 1 MA's), (Start: 97 @39088 has 1 MA's), (109, 39031), (124, 38926), (131, 38899),

Gene: Briton15_59 Start: 39815, Stop: 39300, Start Num: 82
Candidate Starts for Briton15_59:

(Start: 82 @39815 has 223 MA's), (Start: 108 @39734 has 2 MA's), (114, 39680), (125, 39617), (127, 39611), (131, 39596), (139, 39368), (140, 39350),

Gene: BroPlease_39 Start: 28051, Stop: 28470, Start Num: 69
Candidate Starts for BroPlease_39:
(Start: 69 @28051 has 36 MA's), (99, 28117), (101, 28120), (103, 28135), (110, 28165), (113, 28204), (125, 28273), (127, 28279), (128, 28282), (136, 28405),

Gene: Broseidon_56 Start: 38370, Stop: 37957, Start Num: 80
Candidate Starts for Broseidon_56:
(Start: 80 @38370 has 128 MA's), (116, 38223), (122, 38190), (123, 38178), (131, 38148),

Gene: Bruiser_55 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Bruiser_55:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Bruns_55 Start: 38696, Stop: 38181, Start Num: 82
Candidate Starts for Bruns_55:
(Start: 82 @38696 has 223 MA's), (Start: 108 @38615 has 2 MA's), (114, 38561), (125, 38498), (127, 38492), (131, 38477), (139, 38249), (140, 38231),

Gene: BryanRecycles_39 Start: 27909, Stop: 28343, Start Num: 55
Candidate Starts for BryanRecycles_39:
(Start: 55 @27909 has 47 MA's), (110, 28038), (125, 28146), (127, 28152),

Gene: Bryce_48 Start: 35260, Stop: 34850, Start Num: 83
Candidate Starts for Bryce_48:
(Start: 40 @35356 has 1 MA's), (Start: 83 @35260 has 37 MA's), (Start: 97 @35230 has 1 MA's), (106, 35194), (129, 35050), (131, 35041),

Gene: BubbleTrouble_55 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for BubbleTrouble_55:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Bugatti_61 Start: 38772, Stop: 38365, Start Num: 79
Candidate Starts for Bugatti_61:
(Start: 79 @38772 has 28 MA's), (114, 38640), (124, 38583), (131, 38556),

Gene: Bugsy_62 Start: 39687, Stop: 39286, Start Num: 72
Candidate Starts for Bugsy_62:
(Start: 49 @39732 has 1 MA's), (Start: 72 @39687 has 58 MA's), (123, 39495), (131, 39465), (134, 39423),

Gene: Bumblebee11_54 Start: 38312, Stop: 37908, Start Num: 86
Candidate Starts for Bumblebee11_54:
(Start: 86 @38312 has 21 MA's), (111, 38222), (114, 38183), (123, 38129), (131, 38099),

Gene: Burger_54 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Burger_54:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Burton_56 Start: 39801, Stop: 39391, Start Num: 82
Candidate Starts for Burton_56:

(Start: 82 @39801 has 223 MA's), (Start: 108 @39720 has 2 MA's), (127, 39597),

Gene: Buttons_54 Start: 37645, Stop: 37130, Start Num: 82
Candidate Starts for Buttons_54:
(Start: 82 @37645 has 223 MA's), (Start: 108 @37564 has 2 MA's), (114, 37510), (125, 37447), (127, 37441), (131, 37426), (139, 37198), (140, 37180),

Gene: BuzzBuzz_60 Start: 39149, Stop: 38742, Start Num: 84
Candidate Starts for BuzzBuzz_60:
(Start: 84 @39149 has 115 MA's), (Start: 92 @39134 has 1 MA's), (Start: 97 @39122 has 1 MA's), (109, 39065), (124, 38960), (131, 38933),

Gene: Bxb1_51 Start: 38396, Stop: 37881, Start Num: 82
Candidate Starts for Bxb1_51:
(Start: 82 @38396 has 223 MA's), (Start: 108 @38315 has 2 MA's), (114, 38261), (125, 38198), (127, 38192), (131, 38177), (139, 37949), (140, 37931),

Gene: Bxz2_58 Start: 39156, Stop: 38749, Start Num: 84
Candidate Starts for Bxz2_58:
(Start: 84 @39156 has 115 MA's), (Start: 92 @39141 has 1 MA's), (Start: 97 @39129 has 1 MA's), (109, 39072), (124, 38967), (131, 38940),

Gene: CactusRose_53 Start: 38930, Stop: 38415, Start Num: 82
Candidate Starts for CactusRose_53:
(Start: 82 @38930 has 223 MA's), (Start: 108 @38849 has 2 MA's), (114, 38795), (125, 38732), (127, 38726), (131, 38711), (139, 38483), (140, 38465),

Gene: Caelakin_56 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Caelakin_56:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Caelum_40 Start: 28531, Stop: 28962, Start Num: 69
Candidate Starts for Caelum_40:
(8, 28231), (Start: 69 @28531 has 36 MA's), (101, 28600), (103, 28615), (110, 28645), (130, 28774), (138, 28939),

Gene: Caitlin_59 Start: 38093, Stop: 37680, Start Num: 84
Candidate Starts for Caitlin_59:
(Start: 84 @38093 has 115 MA's), (Start: 97 @38066 has 1 MA's), (121, 37928), (122, 37919),

Gene: Caliburn_38 Start: 27535, Stop: 27966, Start Num: 55
Candidate Starts for Caliburn_38:
(Start: 55 @27535 has 47 MA's), (Start: 83 @27580 has 37 MA's), (110, 27661), (125, 27769), (127, 27775),

Gene: Calvinny_63 Start: 39007, Stop: 38600, Start Num: 84
Candidate Starts for Calvinny_63:
(Start: 84 @39007 has 115 MA's), (Start: 97 @38980 has 1 MA's), (109, 38923), (124, 38818), (131, 38791),

Gene: Camperdownii_54 Start: 38042, Stop: 37629, Start Num: 80
Candidate Starts for Camperdownii_54:
(Start: 80 @38042 has 128 MA's), (116, 37895), (122, 37862), (123, 37850), (131, 37820),

Gene: Candra_62 Start: 37971, Stop: 37582, Start Num: 89
Candidate Starts for Candra_62:
(Start: 89 @37971 has 69 MA's), (123, 37791), (131, 37761), (134, 37719),

Gene: Caraxes_58 Start: 37796, Stop: 37404, Start Num: 84
Candidate Starts for Caraxes_58:
(Start: 84 @37796 has 115 MA's), (123, 37613), (131, 37583), (134, 37541),

Gene: Carlyle_54 Start: 36932, Stop: 36417, Start Num: 82
Candidate Starts for Carlyle_54:
(20, 37130), (23, 37118), (Start: 82 @36932 has 223 MA's), (Start: 108 @36851 has 2 MA's), (114, 36797), (125, 36734), (127, 36728), (131, 36713), (139, 36485), (140, 36467),

Gene: Catalina_61 Start: 39072, Stop: 38689, Start Num: 88
Candidate Starts for Catalina_61:
(Start: 64 @39102 has 3 MA's), (Start: 88 @39072 has 18 MA's), (120, 38916), (123, 38892), (131, 38862), (134, 38820),

Gene: Caviar_58 Start: 38737, Stop: 38330, Start Num: 79
Candidate Starts for Caviar_58:
(Start: 79 @38737 has 28 MA's), (114, 38605), (124, 38548), (131, 38521),

Gene: Celery_42 Start: 29369, Stop: 29806, Start Num: 53
Candidate Starts for Celery_42:
(Start: 53 @29369 has 14 MA's), (99, 29453), (110, 29501), (113, 29540), (125, 29609), (127, 29615), (128, 29618),

Gene: Celeste_39 Start: 28363, Stop: 28797, Start Num: 54
Candidate Starts for Celeste_39:
(Start: 43 @28336 has 1 MA's), (Start: 54 @28363 has 8 MA's), (Start: 63 @28378 has 2 MA's), (105, 28465), (110, 28492), (125, 28600), (127, 28606),

Gene: Celestialunch_58 Start: 38877, Stop: 38491, Start Num: 78
Candidate Starts for Celestialunch_58:
(41, 38955), (Start: 78 @38877 has 4 MA's), (Start: 97 @38850 has 1 MA's), (120, 38718), (123, 38694), (131, 38664), (134, 38622),

Gene: Celia_40 Start: 28458, Stop: 28898, Start Num: 55
Candidate Starts for Celia_40:
(27, 28347), (28, 28359), (Start: 55 @28458 has 47 MA's), (103, 28563), (110, 28593), (113, 28632), (127, 28707),

Gene: Centaur_61 Start: 39325, Stop: 38921, Start Num: 72
Candidate Starts for Centaur_61:
(52, 39358), (Start: 67 @39331 has 2 MA's), (Start: 72 @39325 has 58 MA's), (123, 39130), (131, 39100),

Gene: CentreCat_56 Start: 38371, Stop: 37958, Start Num: 80
Candidate Starts for CentreCat_56:
(Start: 80 @38371 has 128 MA's), (116, 38224), (122, 38191), (123, 38179), (131, 38149),

Gene: Cerulean_57 Start: 38772, Stop: 38359, Start Num: 80

Candidate Starts for Cerulean_57:
(Start: 80 @38772 has 128 MA's), (116, 38625), (123, 38580), (131, 38550),

Gene: Chadwick_58 Start: 38583, Stop: 38173, Start Num: 87
Candidate Starts for Chadwick_58:
(Start: 87 @38583 has 62 MA's), (115, 38448), (122, 38412), (131, 38370),

Gene: ChampagnePapi_58 Start: 38771, Stop: 38358, Start Num: 80
Candidate Starts for ChampagnePapi_58:
(Start: 80 @38771 has 128 MA's), (116, 38624), (123, 38579), (131, 38549),

Gene: Chanagan_52 Start: 37730, Stop: 37320, Start Num: 82
Candidate Starts for Chanagan_52:
(Start: 82 @37730 has 223 MA's), (Start: 108 @37649 has 2 MA's), (127, 37526),

Gene: Changeling_59 Start: 39741, Stop: 39337, Start Num: 72
Candidate Starts for Changeling_59:
(Start: 40 @39813 has 1 MA's), (Start: 72 @39741 has 58 MA's), (123, 39546), (131, 39516), (134, 39474),

Gene: Chaph_56 Start: 38379, Stop: 37966, Start Num: 80
Candidate Starts for Chaph_56:
(Start: 80 @38379 has 128 MA's), (102, 38319), (116, 38232), (122, 38199), (123, 38187), (131, 38157),

Gene: Chargerpower_58 Start: 37793, Stop: 37395, Start Num: 70
Candidate Starts for Chargerpower_58:
(Start: 61 @37805 has 1 MA's), (Start: 70 @37793 has 1 MA's), (Start: 78 @37781 has 4 MA's), (Start: 89 @37775 has 69 MA's), (123, 37598), (131, 37568), (134, 37526),

Gene: Charm_58 Start: 38939, Stop: 38550, Start Num: 78
Candidate Starts for Charm_58:
(Start: 78 @38939 has 4 MA's), (120, 38777), (123, 38753), (131, 38723), (134, 38681),

Gene: Chartreuse_60 Start: 37322, Stop: 36933, Start Num: 89
Candidate Starts for Chartreuse_60:
(Start: 89 @37322 has 69 MA's), (123, 37142), (131, 37112), (134, 37070),

Gene: Che12_61 Start: 38234, Stop: 37845, Start Num: 75
Candidate Starts for Che12_61:
(Start: 75 @38234 has 2 MA's), (123, 38054), (131, 38024), (134, 37982),

Gene: ChipMunk_62 Start: 40890, Stop: 40486, Start Num: 72
Candidate Starts for ChipMunk_62:
(Start: 72 @40890 has 58 MA's), (123, 40695), (131, 40665), (134, 40623),

Gene: Chucky_38 Start: 27925, Stop: 28359, Start Num: 55
Candidate Starts for Chucky_38:
(Start: 55 @27925 has 47 MA's), (Start: 63 @27940 has 2 MA's), (110, 28054), (127, 28168),

Gene: Chupacabra_55 Start: 38257, Stop: 37844, Start Num: 80
Candidate Starts for Chupacabra_55:
(Start: 80 @38257 has 128 MA's), (114, 38119), (124, 38062), (131, 38035),

Gene: Ciao_55 Start: 39103, Stop: 38588, Start Num: 82
Candidate Starts for Ciao_55:
(Start: 82 @39103 has 223 MA's), (Start: 108 @39022 has 2 MA's), (114, 38968), (125, 38905), (127, 38899), (131, 38884), (139, 38656), (140, 38638),

Gene: Cici_55 Start: 38327, Stop: 37923, Start Num: 86
Candidate Starts for Cici_55:
(Start: 86 @38327 has 21 MA's), (111, 38237), (114, 38198), (123, 38144), (131, 38114),

Gene: Cindaradix_52 Start: 37956, Stop: 37552, Start Num: 86
Candidate Starts for Cindaradix_52:
(Start: 86 @37956 has 21 MA's), (114, 37827), (122, 37785), (131, 37743),

Gene: Cintron_55 Start: 38345, Stop: 37932, Start Num: 80
Candidate Starts for Cintron_55:
(Start: 80 @38345 has 128 MA's), (116, 38198), (122, 38165), (123, 38153), (131, 38123),

Gene: Citius_56 Start: 38389, Stop: 37976, Start Num: 80
Candidate Starts for Citius_56:
(Start: 80 @38389 has 128 MA's), (116, 38242), (122, 38209), (123, 38197), (131, 38167),

Gene: Clammy_61 Start: 38772, Stop: 38365, Start Num: 79
Candidate Starts for Clammy_61:
(Start: 79 @38772 has 28 MA's), (114, 38640), (124, 38583), (131, 38556),

Gene: Clarenza_55 Start: 38365, Stop: 37952, Start Num: 80
Candidate Starts for Clarenza_55:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: CloudWang3_62 Start: 38143, Stop: 37751, Start Num: 89
Candidate Starts for CloudWang3_62:
(Start: 61 @38173 has 1 MA's), (Start: 89 @38143 has 69 MA's), (Start: 108 @38068 has 2 MA's), (123, 37960), (131, 37930), (134, 37888),

Gene: ClownCar_63 Start: 39000, Stop: 38593, Start Num: 84
Candidate Starts for ClownCar_63:
(Start: 84 @39000 has 115 MA's), (Start: 97 @38973 has 1 MA's), (109, 38916), (124, 38811), (131, 38784),

Gene: Cocoaberry_56 Start: 38372, Stop: 37959, Start Num: 80
Candidate Starts for Cocoaberry_56:
(Start: 80 @38372 has 128 MA's), (116, 38225), (122, 38192), (123, 38180), (131, 38150),

Gene: Colin_59 Start: 39456, Stop: 39052, Start Num: 72
Candidate Starts for Colin_59:
(Start: 72 @39456 has 58 MA's), (123, 39261), (131, 39231), (134, 39189),

Gene: Commander_56 Start: 38367, Stop: 37954, Start Num: 80
Candidate Starts for Commander_56:
(Start: 80 @38367 has 128 MA's), (116, 38220), (122, 38187), (123, 38175), (131, 38145),

Gene: Conan_40 Start: 29330, Stop: 29767, Start Num: 53

Candidate Starts for Conan_40:
(Start: 53 @29330 has 14 MA's), (99, 29414), (110, 29462), (113, 29501), (125, 29570), (127, 29576), (128, 29579),

Gene: ConceptII_58 Start: 41092, Stop: 40682, Start Num: 82
Candidate Starts for ConceptII_58:
(Start: 82 @41092 has 223 MA's), (Start: 108 @41011 has 2 MA's), (127, 40888),

Gene: Connomayer_56 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Connomayer_56:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Conquerage_60 Start: 39143, Stop: 38760, Start Num: 87
Candidate Starts for Conquerage_60:
(Start: 69 @39170 has 36 MA's), (Start: 87 @39143 has 62 MA's), (120, 38987), (123, 38963), (131, 38933), (134, 38891),

Gene: Conspiracy_54 Start: 38592, Stop: 38182, Start Num: 87
Candidate Starts for Conspiracy_54:
(44, 38673), (Start: 87 @38592 has 62 MA's), (115, 38457), (121, 38430), (122, 38421), (131, 38379),

Gene: Coog_53 Start: 38786, Stop: 38376, Start Num: 87
Candidate Starts for Coog_53:
(Start: 87 @38786 has 62 MA's), (115, 38651), (121, 38624), (122, 38615), (131, 38573),

Gene: Cookiedough_61 Start: 37950, Stop: 37561, Start Num: 89
Candidate Starts for Cookiedough_61:
(Start: 89 @37950 has 69 MA's), (123, 37770), (131, 37740), (134, 37698),

Gene: Corvo_56 Start: 40548, Stop: 40033, Start Num: 82
Candidate Starts for Corvo_56:
(Start: 82 @40548 has 223 MA's), (Start: 108 @40467 has 2 MA's), (114, 40413), (125, 40350), (127, 40344), (131, 40329), (139, 40101), (140, 40083),

Gene: CosmicSans_49 Start: 35506, Stop: 35096, Start Num: 83
Candidate Starts for CosmicSans_49:
(Start: 40 @35602 has 1 MA's), (Start: 83 @35506 has 37 MA's), (Start: 97 @35476 has 1 MA's), (106, 35440), (129, 35296), (131, 35287),

Gene: Crispicous1_53 Start: 38055, Stop: 37540, Start Num: 82
Candidate Starts for Crispicous1_53:
(Start: 82 @38055 has 223 MA's), (Start: 108 @37974 has 2 MA's), (114, 37920), (125, 37857), (127, 37851), (131, 37836), (139, 37608), (140, 37590),

Gene: Crucio_60 Start: 39307, Stop: 38903, Start Num: 72
Candidate Starts for Crucio_60:
(Start: 72 @39307 has 58 MA's), (123, 39112), (131, 39082), (134, 39040),

Gene: Cuco_54 Start: 38646, Stop: 38236, Start Num: 87
Candidate Starts for Cuco_54:
(Start: 87 @38646 has 62 MA's), (115, 38511), (121, 38484), (122, 38475), (131, 38433),

Gene: Cueylyss_57 Start: 40734, Stop: 40219, Start Num: 82

Candidate Starts for Cueylyss_57:
(Start: 82 @40734 has 223 MA's), (Start: 108 @40653 has 2 MA's), (114, 40599), (125, 40536), (127, 40530), (131, 40515), (139, 40287), (140, 40269),

Gene: Cullens_63 Start: 39121, Stop: 38714, Start Num: 84
Candidate Starts for Cullens_63:
(Start: 84 @39121 has 115 MA's), (Start: 92 @39106 has 1 MA's), (Start: 97 @39094 has 1 MA's), (109, 39037), (124, 38932), (131, 38905),

Gene: D29_58 Start: 39118, Stop: 38729, Start Num: 82
Candidate Starts for D29_58:
(Start: 82 @39118 has 223 MA's), (123, 38938), (131, 38908), (134, 38866),

Gene: D32_61 Start: 39118, Stop: 38729, Start Num: 82
Candidate Starts for D32_61:
(Start: 82 @39118 has 223 MA's), (123, 38938), (131, 38908), (134, 38866),

Gene: DBQu4n_62 Start: 39099, Stop: 38710, Start Num: 82
Candidate Starts for DBQu4n_62:
(28, 39243), (38, 39210), (Start: 82 @39099 has 223 MA's), (123, 38919), (131, 38889), (134, 38847),

Gene: DD5_55 Start: 39884, Stop: 39342, Start Num: 82
Candidate Starts for DD5_55:
(Start: 82 @39884 has 223 MA's), (Start: 108 @39803 has 2 MA's), (114, 39749), (125, 39686), (127, 39680), (131, 39665), (139, 39437), (140, 39419),

Gene: Daishi_62 Start: 37990, Stop: 37583, Start Num: 84
Candidate Starts for Daishi_62:
(Start: 84 @37990 has 115 MA's), (Start: 92 @37975 has 1 MA's), (Start: 97 @37963 has 1 MA's), (109, 37906), (124, 37801), (131, 37774),

Gene: Dalmatian_61 Start: 39513, Stop: 39109, Start Num: 72
Candidate Starts for Dalmatian_61:
(Start: 40 @39588 has 1 MA's), (Start: 72 @39513 has 58 MA's), (131, 39288), (134, 39246),

Gene: Danforth_60 Start: 38437, Stop: 38024, Start Num: 84
Candidate Starts for Danforth_60:
(Start: 84 @38437 has 115 MA's), (Start: 97 @38410 has 1 MA's), (121, 38272), (122, 38263),

Gene: Danzina_40 Start: 28664, Stop: 29098, Start Num: 54
Candidate Starts for Danzina_40:
(Start: 43 @28637 has 1 MA's), (Start: 54 @28664 has 8 MA's), (Start: 63 @28679 has 2 MA's), (105, 28766), (110, 28793), (125, 28901), (127, 28907),

Gene: Darrell_62 Start: 39765, Stop: 39382, Start Num: 88
Candidate Starts for Darrell_62:
(Start: 57 @39801 has 1 MA's), (Start: 88 @39765 has 18 MA's), (120, 39609), (123, 39585), (131, 39555), (134, 39513),

Gene: Dattran_40 Start: 28470, Stop: 28904, Start Num: 54
Candidate Starts for Dattran_40:
(Start: 43 @28443 has 1 MA's), (Start: 54 @28470 has 8 MA's), (Start: 63 @28485 has 2 MA's), (105, 28572), (110, 28599), (125, 28707), (127, 28713),

Gene: Datway_55 Start: 38298, Stop: 37894, Start Num: 86
Candidate Starts for Datway_55:
(Start: 86 @38298 has 21 MA's), (111, 38208), (114, 38169), (123, 38115), (131, 38085),

Gene: Daudau_39 Start: 28676, Stop: 29107, Start Num: 69
Candidate Starts for Daudau_39:
(Start: 69 @28676 has 36 MA's), (101, 28745), (103, 28760), (110, 28790), (113, 28829), (138, 29084),

Gene: Deano_55 Start: 38376, Stop: 37963, Start Num: 80
Candidate Starts for Deano_55:
(Start: 80 @38376 has 128 MA's), (116, 38229), (122, 38196), (123, 38184), (131, 38154),

Gene: DeerParkTS_57 Start: 38446, Stop: 38042, Start Num: 72
Candidate Starts for DeerParkTS_57:
(Start: 49 @38494 has 1 MA's), (Start: 72 @38446 has 58 MA's), (123, 38251), (131, 38221), (134, 38179),

Gene: DekHockey33_68 Start: 39008, Stop: 38628, Start Num: 91
Candidate Starts for DekHockey33_68:
(Start: 91 @39008 has 20 MA's), (120, 38861), (131, 38804), (134, 38762),

Gene: Deloris_61 Start: 39240, Stop: 38848, Start Num: 84
Candidate Starts for Deloris_61:
(Start: 84 @39240 has 115 MA's), (120, 39081), (123, 39057), (131, 39027), (134, 38985),

Gene: Dennebes_63 Start: 31377, Stop: 30988, Start Num: 69
Candidate Starts for Dennebes_63:
(Start: 69 @31377 has 36 MA's), (107, 31293), (118, 31209), (122, 31185), (127, 31158),

Gene: Destructrice_58 Start: 31149, Stop: 30757, Start Num: 71
Candidate Starts for Destructrice_58:
(Start: 71 @31149 has 12 MA's), (98, 31101), (107, 31062), (118, 30978), (119, 30972), (122, 30954), (127, 30927),

Gene: Dexers_38 Start: 29354, Stop: 29791, Start Num: 53
Candidate Starts for Dexers_38:
(Start: 53 @29354 has 14 MA's), (99, 29438), (110, 29486), (113, 29525), (125, 29594), (127, 29600), (128, 29603),

Gene: Dexes_56 Start: 40007, Stop: 39492, Start Num: 82
Candidate Starts for Dexes_56:
(Start: 82 @40007 has 223 MA's), (Start: 108 @39926 has 2 MA's), (114, 39872), (125, 39809), (127, 39803), (131, 39788), (139, 39560), (140, 39542),

Gene: Dhanush_56 Start: 38371, Stop: 37958, Start Num: 80
Candidate Starts for Dhanush_56:
(Start: 80 @38371 has 128 MA's), (116, 38224), (122, 38191), (123, 38179), (131, 38149),

Gene: Diane_38 Start: 28510, Stop: 28944, Start Num: 66
Candidate Starts for Diane_38:
(Start: 66 @28510 has 2 MA's), (Start: 69 @28513 has 36 MA's), (99, 28579), (101, 28582), (103, 28597), (110, 28627), (113, 28666), (125, 28735), (138, 28921),

Gene: Dieselweasel_64 Start: 39124, Stop: 38717, Start Num: 84
Candidate Starts for Dieselweasel_64:
(Start: 84 @39124 has 115 MA's), (Start: 92 @39109 has 1 MA's), (Start: 97 @39097 has 1 MA's), (109, 39040), (124, 38935), (131, 38908),

Gene: Dignity_62 Start: 39710, Stop: 39309, Start Num: 72
Candidate Starts for Dignity_62:
(Start: 49 @39755 has 1 MA's), (Start: 72 @39710 has 58 MA's), (123, 39518), (131, 39488), (134, 39446),

Gene: Dinger_48 Start: 35648, Stop: 35238, Start Num: 83
Candidate Starts for Dinger_48:
(Start: 40 @35744 has 1 MA's), (Start: 83 @35648 has 37 MA's), (Start: 97 @35618 has 1 MA's), (106, 35582), (129, 35438), (131, 35429),

Gene: DirtyDunning_55 Start: 38380, Stop: 37967, Start Num: 80
Candidate Starts for DirtyDunning_55:
(Start: 80 @38380 has 128 MA's), (116, 38233), (122, 38200), (123, 38188), (131, 38158),

Gene: Discoknowium_52 Start: 38259, Stop: 37849, Start Num: 87
Candidate Starts for Discoknowium_52:
(Start: 87 @38259 has 62 MA's), (115, 38124), (121, 38097), (122, 38088), (131, 38046),

Gene: Dixon_59 Start: 37957, Stop: 37544, Start Num: 84
Candidate Starts for Dixon_59:
(Start: 84 @37957 has 115 MA's), (Start: 97 @37930 has 1 MA's), (121, 37792), (122, 37783),

Gene: Doom_54 Start: 39416, Stop: 38901, Start Num: 82
Candidate Starts for Doom_54:
(Start: 82 @39416 has 223 MA's), (Start: 108 @39335 has 2 MA's), (114, 39281), (125, 39218), (127, 39212), (131, 39197), (139, 38969), (140, 38951),

Gene: Dorothea_61 Start: 37948, Stop: 37556, Start Num: 89
Candidate Starts for Dorothea_61:
(Start: 89 @37948 has 69 MA's), (Start: 108 @37873 has 2 MA's), (123, 37765), (131, 37735), (134, 37693),

Gene: DrFeelGood_53 Start: 38895, Stop: 38380, Start Num: 82
Candidate Starts for DrFeelGood_53:
(Start: 82 @38895 has 223 MA's), (Start: 108 @38814 has 2 MA's), (114, 38760), (125, 38697), (127, 38691), (131, 38676), (139, 38448), (140, 38430),

Gene: Drake55_62 Start: 39407, Stop: 39003, Start Num: 72
Candidate Starts for Drake55_62:
(Start: 72 @39407 has 58 MA's), (123, 39212), (131, 39182),

Gene: Drake94_55 Start: 37501, Stop: 37082, Start Num: 76
Candidate Starts for Drake94_55:
(Start: 76 @37501 has 10 MA's), (Start: 92 @37474 has 1 MA's), (114, 37357), (131, 37273),

Gene: DreamCatcher_59 Start: 40552, Stop: 40037, Start Num: 82
Candidate Starts for DreamCatcher_59:

(Start: 82 @40552 has 223 MA's), (Start: 108 @40471 has 2 MA's), (114, 40417), (125, 40354), (127, 40348), (131, 40333), (139, 40105), (140, 40087),

Gene: DreamTeam1_58 Start: 38771, Stop: 38382, Start Num: 78
Candidate Starts for DreamTeam1_58:
(Start: 78 @38771 has 4 MA's), (120, 38609), (123, 38585), (131, 38555), (134, 38513),

Gene: Dreamboat_57 Start: 38705, Stop: 38163, Start Num: 82
Candidate Starts for Dreamboat_57:
(Start: 82 @38705 has 223 MA's), (Start: 108 @38624 has 2 MA's), (114, 38570), (125, 38507), (127, 38501), (131, 38486), (139, 38258), (140, 38240),

Gene: DroogsArmy_54 Start: 40276, Stop: 39872, Start Num: 87
Candidate Starts for DroogsArmy_54:
(Start: 84 @40279 has 115 MA's), (Start: 87 @40276 has 62 MA's), (Start: 92 @40264 has 1 MA's), (Start: 97 @40252 has 1 MA's), (114, 40147), (124, 40090), (131, 40063),

Gene: DropBear_59 Start: 38674, Stop: 38267, Start Num: 79
Candidate Starts for DropBear_59:
(Start: 79 @38674 has 28 MA's), (114, 38542), (124, 38485), (131, 38458),

Gene: Druantia_56 Start: 38371, Stop: 37958, Start Num: 80
Candidate Starts for Druantia_56:
(Start: 80 @38371 has 128 MA's), (116, 38224), (122, 38191), (123, 38179), (131, 38149),

Gene: Dublin_54 Start: 38761, Stop: 38351, Start Num: 87
Candidate Starts for Dublin_54:
(Start: 87 @38761 has 62 MA's), (115, 38626), (121, 38599), (122, 38590), (131, 38548),

Gene: DudeLittle_59 Start: 39279, Stop: 38875, Start Num: 72
Candidate Starts for DudeLittle_59:
(Start: 40 @39354 has 1 MA's), (Start: 72 @39279 has 58 MA's), (131, 39054), (134, 39012),

Gene: Dulcie_56 Start: 39317, Stop: 38802, Start Num: 82
Candidate Starts for Dulcie_56:
(15, 39569), (22, 39500), (Start: 82 @39317 has 223 MA's), (Start: 108 @39236 has 2 MA's), (114, 39182), (125, 39119), (127, 39113), (131, 39098), (139, 38870), (140, 38852),

Gene: Duplo_62 Start: 39155, Stop: 38766, Start Num: 82
Candidate Starts for Duplo_62:
(28, 39299), (38, 39266), (Start: 82 @39155 has 223 MA's), (123, 38975), (131, 38945), (134, 38903),

Gene: Dwayne_38 Start: 27912, Stop: 28346, Start Num: 55
Candidate Starts for Dwayne_38:
(Start: 55 @27912 has 47 MA's), (Start: 63 @27927 has 2 MA's), (110, 28041), (127, 28155),

Gene: Dynamix_57 Start: 39291, Stop: 38776, Start Num: 82
Candidate Starts for Dynamix_57:
(Start: 82 @39291 has 223 MA's), (Start: 108 @39210 has 2 MA's), (114, 39156), (125, 39093), (127, 39087), (131, 39072), (139, 38844), (140, 38826),

Gene: ELB20_37 Start: 28907, Stop: 29350, Start Num: 57
Candidate Starts for ELB20_37:

(Start: 57 @28907 has 1 MA's), (Start: 69 @28916 has 36 MA's), (101, 28985), (110, 29030), (113, 29069), (130, 29159), (138, 29324),

Gene: EZMoney23_57 Start: 38799, Stop: 38395, Start Num: 72
Candidate Starts for EZMoney23_57:
(Start: 72 @38799 has 58 MA's), (123, 38604), (131, 38574), (134, 38532),

Gene: Eagle_56 Start: 38393, Stop: 37980, Start Num: 80
Candidate Starts for Eagle_56:
(Start: 80 @38393 has 128 MA's), (116, 38246), (122, 38213), (123, 38201), (131, 38171),

Gene: EagleEye_63 Start: 39240, Stop: 38848, Start Num: 84
Candidate Starts for EagleEye_63:
(Start: 84 @39240 has 115 MA's), (Start: 97 @39213 has 1 MA's), (111, 39150), (120, 39081), (123, 39057), (131, 39027), (134, 38985),

Gene: Eaglepride_58 Start: 38447, Stop: 38034, Start Num: 80
Candidate Starts for Eaglepride_58:
(Start: 80 @38447 has 128 MA's), (Start: 97 @38414 has 1 MA's), (114, 38309), (124, 38252), (131, 38225),

Gene: Eapen_56 Start: 38363, Stop: 37950, Start Num: 80
Candidate Starts for Eapen_56:
(Start: 80 @38363 has 128 MA's), (116, 38216), (122, 38183), (123, 38171), (131, 38141),

Gene: Ebony_60 Start: 38448, Stop: 38059, Start Num: 89
Candidate Starts for Ebony_60:
(1, 38877), (4, 38814), (28, 38592), (Start: 89 @38448 has 69 MA's), (131, 38238), (134, 38196),

Gene: Echild_60 Start: 38573, Stop: 38184, Start Num: 87
Candidate Starts for Echild_60:
(Start: 87 @38573 has 62 MA's), (131, 38363), (134, 38321),

Gene: Eddasa_39 Start: 27909, Stop: 28343, Start Num: 55
Candidate Starts for Eddasa_39:
(Start: 55 @27909 has 47 MA's), (110, 28038), (125, 28146), (127, 28152),

Gene: EdogawaKiddo_60 Start: 39138, Stop: 38737, Start Num: 64
Candidate Starts for EdogawaKiddo_60:
(Start: 64 @39138 has 3 MA's), (120, 38964), (123, 38940), (131, 38910), (134, 38868),

Gene: Edtherson_55 Start: 39386, Stop: 38871, Start Num: 82
Candidate Starts for Edtherson_55:
(Start: 82 @39386 has 223 MA's), (Start: 108 @39305 has 2 MA's), (114, 39251), (125, 39188), (127, 39182), (131, 39167), (139, 38939), (140, 38921),

Gene: Eidsmoe_60 Start: 39135, Stop: 38752, Start Num: 87
Candidate Starts for Eidsmoe_60:
(Start: 69 @39162 has 36 MA's), (Start: 87 @39135 has 62 MA's), (120, 38979), (123, 38955), (131, 38925), (134, 38883),

Gene: Ejemplo_37 Start: 27859, Stop: 28290, Start Num: 55
Candidate Starts for Ejemplo_37:

(39, 27805), (48, 27847), (Start: 55 @27859 has 47 MA's), (Start: 63 @27874 has 2 MA's), (110, 27985), (127, 28099),

Gene: ElGato_40 Start: 28994, Stop: 29431, Start Num: 53
Candidate Starts for ElGato_40:
(Start: 53 @28994 has 14 MA's), (99, 29078), (110, 29126), (113, 29165), (125, 29234), (127, 29240), (128, 29243),

Gene: ElTiger69_57 Start: 38718, Stop: 38308, Start Num: 87
Candidate Starts for ElTiger69_57:
(Start: 87 @38718 has 62 MA's), (115, 38583), (122, 38547), (131, 38505),

Gene: Elephantoon_59 Start: 38510, Stop: 38124, Start Num: 89
Candidate Starts for Elephantoon_59:
(Start: 89 @38510 has 69 MA's), (111, 38420), (120, 38351), (123, 38327), (131, 38297),

Gene: Elle_61 Start: 37090, Stop: 36713, Start Num: 93
Candidate Starts for Elle_61:
(Start: 93 @37090 has 3 MA's), (120, 36946), (122, 36934), (131, 36892), (134, 36850),

Gene: Emaanora_41 Start: 27870, Stop: 28304, Start Num: 55
Candidate Starts for Emaanora_41:
(Start: 55 @27870 has 47 MA's), (Start: 63 @27885 has 2 MA's), (110, 27999), (127, 28113),

Gene: EmyBug_59 Start: 39137, Stop: 38754, Start Num: 87
Candidate Starts for EmyBug_59:
(Start: 69 @39164 has 36 MA's), (Start: 87 @39137 has 62 MA's), (120, 38981), (123, 38957), (131, 38927), (134, 38885),

Gene: EnochSoames_41 Start: 27904, Stop: 28338, Start Num: 55
Candidate Starts for EnochSoames_41:
(Start: 55 @27904 has 47 MA's), (110, 28033), (125, 28141), (127, 28147),

Gene: EnzoK_55 Start: 37141, Stop: 36626, Start Num: 82
Candidate Starts for EnzoK_55:
(Start: 82 @37141 has 223 MA's), (Start: 108 @37060 has 2 MA's), (114, 37006), (125, 36943), (127, 36937), (131, 36922), (139, 36694), (140, 36676),

Gene: EpicPhail_64 Start: 39125, Stop: 38718, Start Num: 84
Candidate Starts for EpicPhail_64:
(Start: 84 @39125 has 115 MA's), (Start: 92 @39110 has 1 MA's), (Start: 97 @39098 has 1 MA's), (109, 39041), (124, 38936), (131, 38909),

Gene: Epsocamisio_64 Start: 38251, Stop: 37871, Start Num: 91
Candidate Starts for Epsocamisio_64:
(Start: 91 @38251 has 20 MA's), (120, 38104), (131, 38047), (134, 38005),

Gene: EricB_60 Start: 37928, Stop: 37539, Start Num: 89
Candidate Starts for EricB_60:
(Start: 89 @37928 has 69 MA's), (123, 37748), (131, 37718), (134, 37676),

Gene: Erik_49 Start: 35438, Stop: 35028, Start Num: 83
Candidate Starts for Erik_49:

(Start: 40 @35534 has 1 MA's), (Start: 83 @35438 has 37 MA's), (Start: 97 @35408 has 1 MA's), (106, 35372), (129, 35228), (131, 35219),

Gene: Eris_55 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Eris_55:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Eros_56 Start: 38370, Stop: 37957, Start Num: 80
Candidate Starts for Eros_56:
(Start: 80 @38370 has 128 MA's), (116, 38223), (122, 38190), (123, 38178), (131, 38148),

Gene: Esperer_38 Start: 27371, Stop: 27802, Start Num: 55
Candidate Starts for Esperer_38:
(Start: 55 @27371 has 47 MA's), (Start: 83 @27416 has 37 MA's), (110, 27497), (125, 27605), (127, 27611),

Gene: Espica_49 Start: 35448, Stop: 35038, Start Num: 83
Candidate Starts for Espica_49:
(Start: 40 @35544 has 1 MA's), (Start: 83 @35448 has 37 MA's), (Start: 97 @35418 has 1 MA's), (106, 35382), (129, 35238), (131, 35229),

Gene: Espresso_55 Start: 39945, Stop: 39535, Start Num: 82
Candidate Starts for Espresso_55:
(Start: 82 @39945 has 223 MA's), (Start: 108 @39864 has 2 MA's), (127, 39741),

Gene: Euphoria_53 Start: 39193, Stop: 38783, Start Num: 82
Candidate Starts for Euphoria_53:
(Start: 82 @39193 has 223 MA's), (Start: 108 @39112 has 2 MA's), (127, 38989),

Gene: Eurydice_57 Start: 38365, Stop: 37952, Start Num: 80
Candidate Starts for Eurydice_57:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: EvilGenius_62 Start: 40891, Stop: 40487, Start Num: 72
Candidate Starts for EvilGenius_62:
(Start: 72 @40891 has 58 MA's), (123, 40696), (131, 40666), (134, 40624),

Gene: ExplosioNervosa_60 Start: 39203, Stop: 38820, Start Num: 87
Candidate Starts for ExplosioNervosa_60:
(Start: 69 @39230 has 36 MA's), (Start: 87 @39203 has 62 MA's), (120, 39047), (123, 39023), (131, 38993), (134, 38951),

Gene: Eyeball_57 Start: 39481, Stop: 38966, Start Num: 82
Candidate Starts for Eyeball_57:
(Start: 82 @39481 has 223 MA's), (Start: 108 @39400 has 2 MA's), (114, 39346), (125, 39283), (127, 39277), (131, 39262), (139, 39034), (140, 39016),

Gene: Fajezeel_57 Start: 39452, Stop: 38937, Start Num: 82
Candidate Starts for Fajezeel_57:
(Start: 82 @39452 has 223 MA's), (Start: 108 @39371 has 2 MA's), (114, 39317), (125, 39254), (127, 39248), (131, 39233), (139, 39005), (140, 38987),

Gene: Fameo_60 Start: 39638, Stop: 39234, Start Num: 72

Candidate Starts for Fameo_60:
(Start: 40 @39713 has 1 MA's), (Start: 72 @39638 has 58 MA's), (123, 39443), (131, 39413), (134, 39371),

Gene: Farber_63 Start: 39111, Stop: 38704, Start Num: 84
Candidate Starts for Farber_63:
(Start: 84 @39111 has 115 MA's), (Start: 92 @39096 has 1 MA's), (Start: 97 @39084 has 1 MA's), (109, 39027), (124, 38922), (131, 38895),

Gene: Fascinus_52 Start: 39591, Stop: 39175, Start Num: 82
Candidate Starts for Fascinus_52:
(Start: 82 @39591 has 223 MA's), (120, 39426), (127, 39387), (131, 39372),

Gene: FatCactus_54 Start: 36965, Stop: 36561, Start Num: 84
Candidate Starts for FatCactus_54:
(Start: 84 @36965 has 115 MA's), (Start: 97 @36941 has 1 MA's), (123, 36782), (131, 36752), (135, 36632),

Gene: Fayely_60 Start: 39104, Stop: 38721, Start Num: 87
Candidate Starts for Fayely_60:
(Start: 69 @39131 has 36 MA's), (Start: 87 @39104 has 62 MA's), (120, 38948), (123, 38924), (131, 38894), (134, 38852),

Gene: Fenn_58 Start: 41237, Stop: 40722, Start Num: 82
Candidate Starts for Fenn_58:
(Start: 82 @41237 has 223 MA's), (Start: 108 @41156 has 2 MA's), (114, 41102), (125, 41039), (127, 41033), (131, 41018), (139, 40790), (140, 40772),

Gene: Fernando_63 Start: 39121, Stop: 38714, Start Num: 84
Candidate Starts for Fernando_63:
(Start: 84 @39121 has 115 MA's), (Start: 92 @39106 has 1 MA's), (Start: 97 @39094 has 1 MA's), (109, 39037), (124, 38932), (131, 38905),

Gene: Fibonacci_60 Start: 38417, Stop: 38028, Start Num: 89
Candidate Starts for Fibonacci_60:
(1, 38846), (4, 38783), (28, 38561), (Start: 89 @38417 has 69 MA's), (131, 38207), (134, 38165),

Gene: FiringLine_60 Start: 39288, Stop: 38884, Start Num: 72
Candidate Starts for FiringLine_60:
(Start: 72 @39288 has 58 MA's), (123, 39093), (131, 39063), (134, 39021),

Gene: First_0062 Start: 39473, Stop: 39081, Start Num: 84
Candidate Starts for First_0062:
(Start: 84 @39473 has 115 MA's), (120, 39314), (123, 39290), (131, 39260), (134, 39218),

Gene: Flare16_60 Start: 38986, Stop: 38582, Start Num: 72
Candidate Starts for Flare16_60:
(52, 39019), (Start: 67 @38992 has 2 MA's), (Start: 72 @38986 has 58 MA's), (123, 38791), (131, 38761),

Gene: Flaverint_61 Start: 38875, Stop: 38486, Start Num: 89
Candidate Starts for Flaverint_61:
(1, 39304), (4, 39241), (28, 39019), (Start: 89 @38875 has 69 MA's), (131, 38665), (134, 38623),

Gene: Florean_56 Start: 38367, Stop: 37954, Start Num: 80
Candidate Starts for Florean_56:
(Start: 80 @38367 has 128 MA's), (116, 38220), (122, 38187), (123, 38175), (131, 38145),

Gene: Flux_56 Start: 38367, Stop: 37954, Start Num: 80
Candidate Starts for Flux_56:
(Start: 80 @38367 has 128 MA's), (116, 38220), (122, 38187), (123, 38175), (131, 38145),

Gene: ForGetIt_54 Start: 38617, Stop: 38207, Start Num: 87
Candidate Starts for ForGetIt_54:
(Start: 87 @38617 has 62 MA's), (115, 38482), (121, 38455), (122, 38446), (131, 38404),

Gene: ForesterFrank_58 Start: 39588, Stop: 39199, Start Num: 83
Candidate Starts for ForesterFrank_58:
(Start: 83 @39588 has 37 MA's), (123, 39408), (131, 39378), (134, 39336),

Gene: Forsytheast_55 Start: 38864, Stop: 38349, Start Num: 82
Candidate Starts for Forsytheast_55:
(Start: 82 @38864 has 223 MA's), (Start: 108 @38783 has 2 MA's), (114, 38729), (125, 38666), (127, 38660), (131, 38645), (139, 38417), (140, 38399),

Gene: Francis47_54 Start: 40506, Stop: 39991, Start Num: 82
Candidate Starts for Francis47_54:
(Start: 82 @40506 has 223 MA's), (Start: 108 @40425 has 2 MA's), (114, 40371), (125, 40308), (127, 40302), (131, 40287), (139, 40059), (140, 40041),

Gene: Fred313_58 Start: 38365, Stop: 37958, Start Num: 79
Candidate Starts for Fred313_58:
(Start: 79 @38365 has 28 MA's), (114, 38233), (124, 38176), (131, 38149),

Gene: Funston_55 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Funston_55:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: GMonster_53 Start: 38088, Stop: 37573, Start Num: 82
Candidate Starts for GMonster_53:
(Start: 82 @38088 has 223 MA's), (Start: 108 @38007 has 2 MA's), (114, 37953), (125, 37890), (127, 37884), (131, 37869), (139, 37641), (140, 37623),

Gene: Gadost_56 Start: 38372, Stop: 37959, Start Num: 80
Candidate Starts for Gadost_56:
(Start: 80 @38372 has 128 MA's), (116, 38225), (122, 38192), (123, 38180), (131, 38150),

Gene: GageAP_56 Start: 39982, Stop: 39572, Start Num: 82
Candidate Starts for GageAP_56:
(Start: 82 @39982 has 223 MA's), (Start: 108 @39901 has 2 MA's), (127, 39778),

Gene: Gandalf20_58 Start: 41230, Stop: 40820, Start Num: 82
Candidate Starts for Gandalf20_58:
(Start: 82 @41230 has 223 MA's), (Start: 108 @41149 has 2 MA's), (127, 41026),

Gene: GaugeLDP_57 Start: 39187, Stop: 38783, Start Num: 72

Candidate Starts for GaugeLDP_57:
(Start: 72 @39187 has 58 MA's), (122, 39004), (131, 38962), (134, 38920),

Gene: Gemma_62 Start: 39003, Stop: 38596, Start Num: 84
Candidate Starts for Gemma_62:
(Start: 84 @39003 has 115 MA's), (Start: 97 @38976 has 1 MA's), (109, 38919), (124, 38814), (131, 38787),

Gene: George_52 Start: 38693, Stop: 38283, Start Num: 87
Candidate Starts for George_52:
(Start: 87 @38693 has 62 MA's), (115, 38558), (121, 38531), (122, 38522), (131, 38480),

Gene: Georgie2_61 Start: 39333, Stop: 38929, Start Num: 72
Candidate Starts for Georgie2_61:
(Start: 72 @39333 has 58 MA's), (123, 39138), (131, 39108), (134, 39066),

Gene: Ghoulboy_57 Start: 39496, Stop: 39086, Start Num: 87
Candidate Starts for Ghoulboy_57:
(Start: 87 @39496 has 62 MA's), (115, 39361), (121, 39334), (122, 39325), (131, 39283),

Gene: Gilberta_61 Start: 38868, Stop: 38479, Start Num: 89
Candidate Starts for Gilberta_61:
(Start: 89 @38868 has 69 MA's), (131, 38658), (134, 38616),

Gene: GingkoMaracino_63 Start: 39007, Stop: 38600, Start Num: 84
Candidate Starts for GingkoMaracino_63:
(Start: 84 @39007 has 115 MA's), (Start: 92 @38992 has 1 MA's), (Start: 97 @38980 has 1 MA's), (109, 38923), (124, 38818), (131, 38791),

Gene: GirlDinner_38 Start: 28273, Stop: 28692, Start Num: 77
Candidate Starts for GirlDinner_38:
(59, 28249), (Start: 69 @28258 has 36 MA's), (Start: 77 @28273 has 6 MA's), (101, 28327), (110, 28372), (113, 28411), (132, 28507), (138, 28669),

Gene: Giroux_61 Start: 38771, Stop: 38364, Start Num: 79
Candidate Starts for Giroux_61:
(Start: 79 @38771 has 28 MA's), (114, 38639), (124, 38582), (131, 38555),

Gene: Gladiator_59 Start: 37644, Stop: 37255, Start Num: 89
Candidate Starts for Gladiator_59:
(Start: 89 @37644 has 69 MA's), (123, 37464), (131, 37434), (134, 37392),

Gene: Goby_38 Start: 28369, Stop: 28803, Start Num: 54
Candidate Starts for Goby_38:
(Start: 43 @28342 has 1 MA's), (46, 28351), (Start: 54 @28369 has 8 MA's), (Start: 63 @28384 has 2 MA's), (105, 28471), (110, 28498), (125, 28606), (127, 28612),

Gene: Godpower_39 Start: 28364, Stop: 28798, Start Num: 54
Candidate Starts for Godpower_39:
(Start: 43 @28337 has 1 MA's), (44, 28340), (46, 28346), (Start: 54 @28364 has 8 MA's), (Start: 63 @28379 has 2 MA's), (105, 28466), (110, 28493), (125, 28601), (127, 28607),

Gene: Gollum_49 Start: 35504, Stop: 35094, Start Num: 83

Candidate Starts for Gollum_49:
(Start: 40 @35600 has 1 MA's), (Start: 83 @35504 has 37 MA's), (Start: 97 @35474 has 1 MA's), (106, 35438), (129, 35294), (131, 35285),

Gene: Gompeii16_54 Start: 40239, Stop: 39724, Start Num: 82
Candidate Starts for Gompeii16_54:
(Start: 82 @40239 has 223 MA's), (Start: 108 @40158 has 2 MA's), (114, 40104), (125, 40041), (127, 40035), (131, 40020), (139, 39792), (140, 39774),

Gene: Goose_57 Start: 38073, Stop: 37660, Start Num: 80
Candidate Starts for Goose_57:
(Start: 80 @38073 has 128 MA's), (114, 37935), (124, 37878), (131, 37851),

Gene: Graduation_59 Start: 40806, Stop: 40291, Start Num: 82
Candidate Starts for Graduation_59:
(Start: 82 @40806 has 223 MA's), (Start: 108 @40725 has 2 MA's), (114, 40671), (125, 40608), (127, 40602), (131, 40587), (139, 40359), (140, 40341),

Gene: Gratitude_60 Start: 39230, Stop: 38826, Start Num: 72
Candidate Starts for Gratitude_60:
(52, 39263), (Start: 67 @39236 has 2 MA's), (Start: 72 @39230 has 58 MA's), (123, 39035), (131, 39005),

Gene: GrecoEtereo_56 Start: 39211, Stop: 38696, Start Num: 82
Candidate Starts for GrecoEtereo_56:
(Start: 82 @39211 has 223 MA's), (Start: 108 @39130 has 2 MA's), (114, 39076), (125, 39013), (127, 39007), (131, 38992), (139, 38764), (140, 38746),

Gene: GreedyLawyer_60 Start: 37935, Stop: 37546, Start Num: 89
Candidate Starts for GreedyLawyer_60:
(Start: 89 @37935 has 69 MA's), (123, 37755), (131, 37725), (134, 37683),

Gene: GreenWeasel_40 Start: 28058, Stop: 28477, Start Num: 69
Candidate Starts for GreenWeasel_40:
(Start: 69 @28058 has 36 MA's), (99, 28124), (101, 28127), (103, 28142), (110, 28172), (113, 28211), (125, 28280), (127, 28286), (128, 28289), (136, 28412),

Gene: Greg_57 Start: 39452, Stop: 38937, Start Num: 82
Candidate Starts for Greg_57:
(Start: 82 @39452 has 223 MA's), (Start: 108 @39371 has 2 MA's), (114, 39317), (125, 39254), (127, 39248), (131, 39233), (139, 39005), (140, 38987),

Gene: Gremlin23_58 Start: 30810, Stop: 30421, Start Num: 69
Candidate Starts for Gremlin23_58:
(47, 30861), (Start: 69 @30810 has 36 MA's), (107, 30726), (118, 30642), (119, 30636), (122, 30618), (127, 30591),

Gene: Grif_63 Start: 39196, Stop: 38789, Start Num: 84
Candidate Starts for Grif_63:
(Start: 84 @39196 has 115 MA's), (Start: 92 @39181 has 1 MA's), (Start: 97 @39169 has 1 MA's), (109, 39112), (124, 39007), (131, 38980),

Gene: GroundGoblin_55 Start: 39834, Stop: 39319, Start Num: 82

Candidate Starts for GroundGoblin_55:
(Start: 82 @39834 has 223 MA's), (Start: 108 @39753 has 2 MA's), (114, 39699), (125, 39636), (127, 39630), (131, 39615), (139, 39387), (140, 39369),

Gene: Groundhog_59 Start: 38352, Stop: 37939, Start Num: 84
Candidate Starts for Groundhog_59:
(Start: 84 @38352 has 115 MA's), (Start: 97 @38325 has 1 MA's), (121, 38187), (122, 38178),

Gene: Groupthink_64 Start: 39007, Stop: 38600, Start Num: 84
Candidate Starts for Groupthink_64:
(Start: 84 @39007 has 115 MA's), (Start: 97 @38980 has 1 MA's), (109, 38923), (124, 38818), (131, 38791),

Gene: Grub_63 Start: 39113, Stop: 38706, Start Num: 84
Candidate Starts for Grub_63:
(Start: 84 @39113 has 115 MA's), (Start: 92 @39098 has 1 MA's), (Start: 97 @39086 has 1 MA's), (109, 39029), (124, 38924), (131, 38897),

Gene: Grum1_63 Start: 39121, Stop: 38714, Start Num: 84
Candidate Starts for Grum1_63:
(Start: 84 @39121 has 115 MA's), (Start: 92 @39106 has 1 MA's), (Start: 97 @39094 has 1 MA's), (109, 39037), (124, 38932), (131, 38905),

Gene: Gruunaga_62 Start: 38343, Stop: 37954, Start Num: 89
Candidate Starts for Gruunaga_62:
(Start: 89 @38343 has 69 MA's), (123, 38163), (131, 38133), (134, 38091),

Gene: GtownJaz_63 Start: 39123, Stop: 38716, Start Num: 84
Candidate Starts for GtownJaz_63:
(Start: 84 @39123 has 115 MA's), (Start: 92 @39108 has 1 MA's), (Start: 97 @39096 has 1 MA's), (109, 39039), (124, 38934), (131, 38907),

Gene: Gwendoluna_59 Start: 41455, Stop: 40940, Start Num: 82
Candidate Starts for Gwendoluna_59:
(15, 41707), (22, 41638), (Start: 82 @41455 has 223 MA's), (Start: 108 @41374 has 2 MA's), (114, 41320), (125, 41257), (127, 41251), (131, 41236), (139, 41008), (140, 40990),

Gene: Gwennie_63 Start: 39125, Stop: 38718, Start Num: 84
Candidate Starts for Gwennie_63:
(Start: 84 @39125 has 115 MA's), (Start: 92 @39110 has 1 MA's), (Start: 97 @39098 has 1 MA's), (109, 39041), (124, 38936), (131, 38909),

Gene: Gyzlar_52 Start: 37454, Stop: 36939, Start Num: 82
Candidate Starts for Gyzlar_52:
(Start: 82 @37454 has 223 MA's), (Start: 108 @37373 has 2 MA's), (114, 37319), (125, 37256), (127, 37250), (131, 37235), (139, 37007), (140, 36989),

Gene: HINdeR_53 Start: 39941, Stop: 39534, Start Num: 84
Candidate Starts for HINdeR_53:
(Start: 84 @39941 has 115 MA's), (Start: 87 @39938 has 62 MA's), (Start: 97 @39914 has 1 MA's), (114, 39809), (123, 39755), (124, 39752), (131, 39725),

Gene: Haizum_40 Start: 28628, Stop: 29059, Start Num: 69

Candidate Starts for Haizum_40:
(Start: 69 @28628 has 36 MA's), (99, 28694), (101, 28697), (103, 28712), (110, 28742), (113, 28781), (125, 28850), (138, 29036),

Gene: HamSlice_54 Start: 38366, Stop: 37953, Start Num: 80
Candidate Starts for HamSlice_54:
(Start: 80 @38366 has 128 MA's), (116, 38219), (122, 38186), (123, 38174), (131, 38144),

Gene: Hami1_49 Start: 34289, Stop: 33774, Start Num: 82
Candidate Starts for Hami1_49:
(12, 34559), (Start: 82 @34289 has 223 MA's), (Start: 108 @34208 has 2 MA's), (114, 34154), (125, 34091), (127, 34085), (131, 34070), (139, 33842), (140, 33824),

Gene: Hammer_62 Start: 37950, Stop: 37561, Start Num: 89
Candidate Starts for Hammer_62:
(Start: 89 @37950 has 69 MA's), (123, 37770), (131, 37740), (134, 37698),

Gene: Hank144_40 Start: 28621, Stop: 29055, Start Num: 69
Candidate Starts for Hank144_40:
(Start: 69 @28621 has 36 MA's), (101, 28690), (110, 28735), (113, 28774), (132, 28870), (138, 29032),

Gene: Hanray_60 Start: 39124, Stop: 38741, Start Num: 88
Candidate Starts for Hanray_60:
(Start: 64 @39154 has 3 MA's), (65, 39151), (Start: 88 @39124 has 18 MA's), (120, 38968), (123, 38944), (131, 38914), (134, 38872),

Gene: Happiness_55 Start: 38354, Stop: 37941, Start Num: 80
Candidate Starts for Happiness_55:
(Start: 80 @38354 has 128 MA's), (116, 38207), (123, 38162), (131, 38132),

Gene: Harlequin_48 Start: 35290, Stop: 34880, Start Num: 83
Candidate Starts for Harlequin_48:
(Start: 40 @35386 has 1 MA's), (Start: 83 @35290 has 37 MA's), (Start: 97 @35260 has 1 MA's), (106, 35224), (129, 35080), (131, 35071),

Gene: HarryHoudini_61 Start: 39404, Stop: 39012, Start Num: 84
Candidate Starts for HarryHoudini_61:
(Start: 84 @39404 has 115 MA's), (123, 39221), (131, 39191),

Gene: HarryOW_55 Start: 38709, Stop: 38194, Start Num: 82
Candidate Starts for HarryOW_55:
(Start: 82 @38709 has 223 MA's), (Start: 108 @38628 has 2 MA's), (114, 38574), (125, 38511), (127, 38505), (131, 38490), (139, 38262), (140, 38244),

Gene: HashRod_64 Start: 39149, Stop: 38742, Start Num: 84
Candidate Starts for HashRod_64:
(Start: 84 @39149 has 115 MA's), (Start: 92 @39134 has 1 MA's), (Start: 97 @39122 has 1 MA's), (109, 39065), (124, 38960), (131, 38933),

Gene: HaugeAnator_59 Start: 31216, Stop: 30827, Start Num: 71
Candidate Starts for HaugeAnator_59:
(Start: 71 @31216 has 12 MA's), (98, 31171), (107, 31132), (114, 31066), (118, 31048), (122, 31024), (127, 30997),

Gene: HaveUMetTed_64 Start: 38992, Stop: 38585, Start Num: 84
Candidate Starts for HaveUMetTed_64:
(Start: 84 @38992 has 115 MA's), (Start: 97 @38965 has 1 MA's), (109, 38908), (124, 38803), (131, 38776),

Gene: Heathen_59 Start: 38463, Stop: 38056, Start Num: 79
Candidate Starts for Heathen_59:
(Start: 79 @38463 has 28 MA's), (114, 38331), (124, 38274), (131, 38247),

Gene: Heffalump_59 Start: 40106, Stop: 39702, Start Num: 72
Candidate Starts for Heffalump_59:
(Start: 40 @40181 has 1 MA's), (Start: 72 @40106 has 58 MA's), (123, 39911), (131, 39881), (134, 39839),

Gene: HelDan_59 Start: 38679, Stop: 38272, Start Num: 79
Candidate Starts for HelDan_59:
(Start: 79 @38679 has 28 MA's), (114, 38547), (124, 38490), (131, 38463),

Gene: Heliosoles_62 Start: 39010, Stop: 38603, Start Num: 84
Candidate Starts for Heliosoles_62:
(Start: 84 @39010 has 115 MA's), (Start: 97 @38983 has 1 MA's), (109, 38926), (124, 38821), (131, 38794),

Gene: Helmet_64 Start: 38419, Stop: 38030, Start Num: 89
Candidate Starts for Helmet_64:
(Start: 89 @38419 has 69 MA's), (123, 38239), (131, 38209), (134, 38167),

Gene: Herbertwm_58 Start: 39049, Stop: 38666, Start Num: 82
Candidate Starts for Herbertwm_58:
(28, 39193), (35, 39172), (Start: 82 @39049 has 223 MA's), (114, 38923), (120, 38893), (122, 38881), (131, 38839), (134, 38797),

Gene: Hercules11_63 Start: 39130, Stop: 38723, Start Num: 84
Candidate Starts for Hercules11_63:
(Start: 84 @39130 has 115 MA's), (Start: 92 @39115 has 1 MA's), (Start: 97 @39103 has 1 MA's), (109, 39046), (124, 38941), (131, 38914),

Gene: Hermia_56 Start: 39884, Stop: 39369, Start Num: 82
Candidate Starts for Hermia_56:
(Start: 82 @39884 has 223 MA's), (Start: 108 @39803 has 2 MA's), (114, 39749), (125, 39686), (127, 39680), (131, 39665), (139, 39437), (140, 39419),

Gene: HermioneGrange_56 Start: 39356, Stop: 38946, Start Num: 82
Candidate Starts for HermioneGrange_56:
(Start: 82 @39356 has 223 MA's), (Start: 108 @39275 has 2 MA's), (127, 39152),

Gene: Hexamo_62 Start: 38049, Stop: 37660, Start Num: 89
Candidate Starts for Hexamo_62:
(Start: 89 @38049 has 69 MA's), (123, 37869), (131, 37839), (134, 37797),

Gene: Hippo_38 Start: 27924, Stop: 28358, Start Num: 55
Candidate Starts for Hippo_38:

(14, 27711), (39, 27870), (48, 27912), (Start: 55 @27924 has 47 MA's), (Start: 63 @27939 has 2 MA's), (110, 28053), (127, 28167),

Gene: HippoHollow_60 Start: 40737, Stop: 40336, Start Num: 72
Candidate Starts for HippoHollow_60:
(Start: 72 @40737 has 58 MA's), (123, 40545), (131, 40515), (134, 40473),

Gene: Hiro_49 Start: 35766, Stop: 35356, Start Num: 83
Candidate Starts for Hiro_49:
(Start: 40 @35862 has 1 MA's), (Start: 83 @35766 has 37 MA's), (Start: 97 @35736 has 1 MA's), (106, 35700), (129, 35556), (131, 35547),

Gene: Holex_60 Start: 39140, Stop: 38757, Start Num: 88
Candidate Starts for Holex_60:
(Start: 64 @39170 has 3 MA's), (Start: 88 @39140 has 18 MA's), (120, 38984), (123, 38960), (131, 38930), (134, 38888),

Gene: Holli_55 Start: 38158, Stop: 37745, Start Num: 80
Candidate Starts for Holli_55:
(Start: 80 @38158 has 128 MA's), (116, 38011), (122, 37978), (123, 37966), (131, 37936),

Gene: Homines_48 Start: 35393, Stop: 34878, Start Num: 82
Candidate Starts for Homines_48:
(Start: 82 @35393 has 223 MA's), (Start: 108 @35312 has 2 MA's), (114, 35258), (125, 35195), (127, 35189), (131, 35174), (139, 34946), (140, 34928),

Gene: Hookmount_58 Start: 38738, Stop: 38331, Start Num: 79
Candidate Starts for Hookmount_58:
(Start: 79 @38738 has 28 MA's), (114, 38606), (124, 38549), (131, 38522),

Gene: Hoot_56 Start: 35786, Stop: 35397, Start Num: 89
Candidate Starts for Hoot_56:
(Start: 89 @35786 has 69 MA's), (123, 35606), (131, 35576), (134, 35534),

Gene: Hope4ever_57 Start: 40116, Stop: 39601, Start Num: 82
Candidate Starts for Hope4ever_57:
(Start: 82 @40116 has 223 MA's), (Start: 108 @40035 has 2 MA's), (114, 39981), (125, 39918), (127, 39912), (131, 39897), (139, 39669), (140, 39651),

Gene: HortumSL17_60 Start: 39071, Stop: 38688, Start Num: 88
Candidate Starts for HortumSL17_60:
(Start: 64 @39101 has 3 MA's), (Start: 88 @39071 has 18 MA's), (120, 38915), (123, 38891), (131, 38861), (134, 38819),

Gene: Houdini22_56 Start: 38372, Stop: 37959, Start Num: 80
Candidate Starts for Houdini22_56:
(Start: 80 @38372 has 128 MA's), (116, 38225), (122, 38192), (123, 38180), (131, 38150),

Gene: HuhtaEnerson15_54 Start: 38693, Stop: 38283, Start Num: 87
Candidate Starts for HuhtaEnerson15_54:
(Start: 87 @38693 has 62 MA's), (115, 38558), (121, 38531), (122, 38522), (131, 38480),

Gene: Huxley_55 Start: 38429, Stop: 38016, Start Num: 80

Candidate Starts for Huxley_55:
(Start: 80 @38429 has 128 MA's), (116, 38282), (122, 38249), (123, 38237), (131, 38207),

Gene: Hydra_40 Start: 28083, Stop: 28514, Start Num: 55
Candidate Starts for Hydra_40:
(Start: 55 @28083 has 47 MA's), (Start: 83 @28128 has 37 MA's), (110, 28209), (125, 28317), (127, 28323),

Gene: ICleared_56 Start: 38397, Stop: 37984, Start Num: 80
Candidate Starts for ICleared_56:
(Start: 80 @38397 has 128 MA's), (116, 38250), (122, 38217), (123, 38205), (131, 38175),

Gene: ILeeKay_59 Start: 39980, Stop: 39465, Start Num: 82
Candidate Starts for ILeeKay_59:
(Start: 82 @39980 has 223 MA's), (Start: 108 @39899 has 2 MA's), (114, 39845), (125, 39782), (127, 39776), (131, 39761), (139, 39533), (140, 39515),

Gene: Ibantik_37 Start: 17729, Stop: 17313, Start Num: 68
Candidate Starts for Ibantik_37:
(Start: 68 @17729 has 1 MA's), (125, 17513), (127, 17507), (131, 17492), (137, 17357),

Gene: Iceman_56 Start: 38654, Stop: 38241, Start Num: 80
Candidate Starts for Iceman_56:
(Start: 80 @38654 has 128 MA's), (116, 38507), (122, 38474), (123, 38462), (131, 38432),

Gene: Ichabod_59 Start: 40793, Stop: 40278, Start Num: 82
Candidate Starts for Ichabod_59:
(Start: 82 @40793 has 223 MA's), (Start: 108 @40712 has 2 MA's), (114, 40658), (125, 40595), (127, 40589), (131, 40574), (139, 40346), (140, 40328),

Gene: Idleandcovert_59 Start: 38772, Stop: 38365, Start Num: 79
Candidate Starts for Idleandcovert_59:
(Start: 79 @38772 has 28 MA's), (114, 38640), (124, 38583), (131, 38556),

Gene: IgnatiusPatJac_56 Start: 39445, Stop: 38930, Start Num: 82
Candidate Starts for IgnatiusPatJac_56:
(Start: 82 @39445 has 223 MA's), (102, 39388), (Start: 108 @39364 has 2 MA's), (114, 39310), (125, 39247), (127, 39241), (131, 39226), (139, 38998), (140, 38980),

Gene: Imbriano_63 Start: 38335, Stop: 37946, Start Num: 89
Candidate Starts for Imbriano_63:
(Start: 89 @38335 has 69 MA's), (123, 38155), (131, 38125), (134, 38083),

Gene: Immanuel3_58 Start: 31219, Stop: 30830, Start Num: 71
Candidate Starts for Immanuel3_58:
(Start: 71 @31219 has 12 MA's), (98, 31174), (107, 31135), (114, 31069), (118, 31051), (122, 31027), (127, 31000),

Gene: Indigo_37 Start: 27551, Stop: 27982, Start Num: 55
Candidate Starts for Indigo_37:
(Start: 55 @27551 has 47 MA's), (Start: 83 @27596 has 37 MA's), (110, 27677), (125, 27785), (127, 27791),

Gene: Indra_65 Start: 38420, Stop: 38031, Start Num: 89
Candidate Starts for Indra_65:
(Start: 89 @38420 has 69 MA's), (123, 38240), (131, 38210), (134, 38168),

Gene: Insomnia_61 Start: 38928, Stop: 38539, Start Num: 89
Candidate Starts for Insomnia_61:
(Start: 89 @38928 has 69 MA's), (131, 38718), (134, 38676),

Gene: Iracema64_57 Start: 38632, Stop: 38219, Start Num: 80
Candidate Starts for Iracema64_57:
(Start: 80 @38632 has 128 MA's), (116, 38485), (122, 38452), (123, 38440), (131, 38410),

Gene: IronMan_59 Start: 40131, Stop: 39727, Start Num: 72
Candidate Starts for IronMan_59:
(Start: 43 @40197 has 1 MA's), (Start: 49 @40179 has 1 MA's), (51, 40173), (52, 40167), (Start: 72 @40131 has 58 MA's), (120, 39960), (122, 39948), (123, 39936), (131, 39906), (134, 39864),

Gene: Isca_58 Start: 38257, Stop: 37841, Start Num: 76
Candidate Starts for Isca_58:
(Start: 76 @38257 has 10 MA's), (114, 38116), (124, 38059), (131, 38032),

Gene: Isiphiwo_59 Start: 37502, Stop: 37113, Start Num: 89
Candidate Starts for Isiphiwo_59:
(Start: 89 @37502 has 69 MA's), (123, 37322), (131, 37292), (134, 37250),

Gene: Issmi_40 Start: 29225, Stop: 29659, Start Num: 69
Candidate Starts for Issmi_40:
(Start: 69 @29225 has 36 MA's), (101, 29294), (110, 29339), (113, 29378), (138, 29636),

Gene: Itza_40 Start: 28372, Stop: 28812, Start Num: 55
Candidate Starts for Itza_40:
(27, 28261), (28, 28273), (Start: 55 @28372 has 47 MA's), (103, 28477), (110, 28507), (113, 28546), (127, 28621),

Gene: Iwokeuplikedis_62 Start: 39037, Stop: 38645, Start Num: 84
Candidate Starts for Iwokeuplikedis_62:
(Start: 84 @39037 has 115 MA's), (120, 38878), (123, 38854), (131, 38824), (134, 38782),

Gene: Izzy_39 Start: 27956, Stop: 28390, Start Num: 55
Candidate Starts for Izzy_39:
(Start: 55 @27956 has 47 MA's), (110, 28085), (125, 28193), (127, 28199),

Gene: JC27_58 Start: 39896, Stop: 39381, Start Num: 82
Candidate Starts for JC27_58:
(Start: 82 @39896 has 223 MA's), (102, 39839), (Start: 108 @39815 has 2 MA's), (114, 39761), (125, 39698), (127, 39692), (131, 39677), (139, 39449), (140, 39431),

Gene: JF2_57 Start: 36958, Stop: 36542, Start Num: 76
Candidate Starts for JF2_57:
(Start: 76 @36958 has 10 MA's), (114, 36817), (124, 36760), (131, 36733),

Gene: JF4_57 Start: 36958, Stop: 36542, Start Num: 76
Candidate Starts for JF4_57:

(Start: 76 @36958 has 10 MA's), (114, 36817), (124, 36760), (131, 36733),

Gene: JPandJE_59 Start: 31681, Stop: 31292, Start Num: 71
Candidate Starts for JPandJE_59:
(38, 31777), (Start: 71 @31681 has 12 MA's), (98, 31636), (107, 31597), (114, 31531), (118, 31513), (122, 31489), (127, 31462),

Gene: JSwag_66 Start: 38440, Stop: 38060, Start Num: 91
Candidate Starts for JSwag_66:
(Start: 91 @38440 has 20 MA's), (120, 38293), (131, 38236), (134, 38194),

Gene: Jaan_60 Start: 40291, Stop: 39887, Start Num: 72
Candidate Starts for Jaan_60:
(Start: 43 @40357 has 1 MA's), (Start: 49 @40339 has 1 MA's), (51, 40333), (52, 40327), (Start: 72 @40291 has 58 MA's), (120, 40120), (122, 40108), (123, 40096), (131, 40066), (134, 40024),

Gene: Jabiru_56 Start: 38597, Stop: 38187, Start Num: 87
Candidate Starts for Jabiru_56:
(Start: 87 @38597 has 62 MA's), (115, 38462), (121, 38435), (122, 38426), (131, 38384),

Gene: Jabith_61 Start: 38929, Stop: 38540, Start Num: 89
Candidate Starts for Jabith_61:
(1, 39358), (4, 39295), (28, 39073), (Start: 89 @38929 has 69 MA's), (131, 38719), (134, 38677),

Gene: JackSparrow_58 Start: 39879, Stop: 39445, Start Num: 108
Candidate Starts for JackSparrow_58:
(Start: 82 @39960 has 223 MA's), (Start: 108 @39879 has 2 MA's), (114, 39825), (125, 39762), (127, 39756), (131, 39741), (139, 39513), (140, 39495),

Gene: Janus_39 Start: 28613, Stop: 29032, Start Num: 77
Candidate Starts for Janus_39:
(59, 28589), (Start: 69 @28598 has 36 MA's), (Start: 77 @28613 has 6 MA's), (101, 28667), (110, 28712), (113, 28751), (132, 28847), (138, 29009),

Gene: Jash_39 Start: 27909, Stop: 28343, Start Num: 55
Candidate Starts for Jash_39:
(Start: 55 @27909 has 47 MA's), (110, 28038), (125, 28146), (127, 28152),

Gene: Jasper_57 Start: 38591, Stop: 38049, Start Num: 82
Candidate Starts for Jasper_57:
(Start: 82 @38591 has 223 MA's), (Start: 108 @38510 has 2 MA's), (114, 38456), (125, 38393), (127, 38387), (131, 38372), (139, 38144), (140, 38126),

Gene: Jaykayelowell_54 Start: 38361, Stop: 37948, Start Num: 80
Candidate Starts for Jaykayelowell_54:
(Start: 80 @38361 has 128 MA's), (116, 38214), (122, 38181), (123, 38169), (131, 38139),

Gene: Jeeves_64 Start: 39202, Stop: 38816, Start Num: 85
Candidate Starts for Jeeves_64:
(Start: 85 @39202 has 2 MA's), (120, 39043), (123, 39019), (131, 38989),

Gene: Jeffabunny_62 Start: 38046, Stop: 37657, Start Num: 89
Candidate Starts for Jeffabunny_62:

(Start: 89 @38046 has 69 MA's), (123, 37866), (131, 37836), (134, 37794),

Gene: JenCasNa_64 Start: 39121, Stop: 38714, Start Num: 84
Candidate Starts for JenCasNa_64:
(Start: 84 @39121 has 115 MA's), (Start: 92 @39106 has 1 MA's), (Start: 97 @39094 has 1 MA's), (109, 39037), (124, 38932), (131, 38905),

Gene: JeppNRM_64 Start: 39008, Stop: 38601, Start Num: 84
Candidate Starts for JeppNRM_64:
(Start: 84 @39008 has 115 MA's), (Start: 97 @38981 has 1 MA's), (109, 38924), (124, 38819), (131, 38792),

Gene: Jerm_62 Start: 39702, Stop: 39301, Start Num: 72
Candidate Starts for Jerm_62:
(Start: 49 @39747 has 1 MA's), (Start: 72 @39702 has 58 MA's), (123, 39510), (131, 39480), (134, 39438),

Gene: Jerm2_57 Start: 39611, Stop: 39201, Start Num: 82
Candidate Starts for Jerm2_57:
(Start: 82 @39611 has 223 MA's), (Start: 108 @39530 has 2 MA's), (127, 39407),

Gene: Jester_48 Start: 35221, Stop: 34811, Start Num: 83
Candidate Starts for Jester_48:
(Start: 40 @35317 has 1 MA's), (Start: 83 @35221 has 37 MA's), (Start: 97 @35191 has 1 MA's), (106, 35155), (129, 35011), (131, 35002),

Gene: JetBlade_56 Start: 38362, Stop: 37949, Start Num: 80
Candidate Starts for JetBlade_56:
(Start: 80 @38362 has 128 MA's), (116, 38215), (122, 38182), (123, 38170), (131, 38140),

Gene: Jevington_41 Start: 29016, Stop: 29450, Start Num: 69
Candidate Starts for Jevington_41:
(8, 28713), (36, 28917), (Start: 69 @29016 has 36 MA's), (101, 29085), (110, 29130), (113, 29169), (138, 29427),

Gene: JewelBug_62 Start: 38180, Stop: 37752, Start Num: 58
Candidate Starts for JewelBug_62:
(Start: 58 @38180 has 4 MA's), (Start: 84 @38144 has 115 MA's), (123, 37961), (131, 37931), (134, 37889),

Gene: Jhitchelle_38 Start: 28867, Stop: 29304, Start Num: 53
Candidate Starts for Jhitchelle_38:
(Start: 53 @28867 has 14 MA's), (99, 28951), (110, 28999), (113, 29038), (125, 29107), (127, 29113), (128, 29116),

Gene: Jiawan_60 Start: 39156, Stop: 38773, Start Num: 88
Candidate Starts for Jiawan_60:
(Start: 64 @39186 has 3 MA's), (65, 39183), (Start: 88 @39156 has 18 MA's), (120, 39000), (123, 38976), (131, 38946), (134, 38904),

Gene: Jobu08_61 Start: 38953, Stop: 38546, Start Num: 84
Candidate Starts for Jobu08_61:

(Start: 84 @38953 has 115 MA's), (Start: 92 @38938 has 1 MA's), (Start: 97 @38926 has 1 MA's), (109, 38869), (124, 38764), (131, 38737),

Gene: JoongJeon_55 Start: 38365, Stop: 37952, Start Num: 80
Candidate Starts for JoongJeon_55:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: Jordennis_60 Start: 37661, Stop: 37233, Start Num: 58
Candidate Starts for Jordennis_60:
(Start: 58 @37661 has 4 MA's), (Start: 84 @37625 has 115 MA's), (Start: 97 @37598 has 1 MA's), (123, 37442), (131, 37412), (134, 37370),

Gene: Jorgensen_56 Start: 39441, Stop: 39031, Start Num: 82
Candidate Starts for Jorgensen_56:
(Start: 82 @39441 has 223 MA's), (Start: 108 @39360 has 2 MA's), (127, 39237),

Gene: Joselito_61 Start: 38877, Stop: 38488, Start Num: 89
Candidate Starts for Joselito_61:
(1, 39306), (4, 39243), (28, 39021), (Start: 89 @38877 has 69 MA's), (131, 38667), (134, 38625),

Gene: JoshKayV_62 Start: 39766, Stop: 39365, Start Num: 72
Candidate Starts for JoshKayV_62:
(Start: 72 @39766 has 58 MA's), (123, 39574), (131, 39544), (134, 39502),

Gene: Journey13_54 Start: 37660, Stop: 37271, Start Num: 87
Candidate Starts for Journey13_54:
(Start: 87 @37660 has 62 MA's), (Start: 97 @37636 has 1 MA's), (120, 37504), (123, 37480), (131, 37450), (134, 37408),

Gene: Jovo_54 Start: 38873, Stop: 38463, Start Num: 87
Candidate Starts for Jovo_54:
(Start: 87 @38873 has 62 MA's), (115, 38738), (121, 38711), (122, 38702), (131, 38660),

Gene: Jsquared_59 Start: 38463, Stop: 38071, Start Num: 84
Candidate Starts for Jsquared_59:
(Start: 84 @38463 has 115 MA's), (120, 38304), (123, 38280), (131, 38250), (134, 38208),

Gene: JuliaChild_57 Start: 39293, Stop: 38883, Start Num: 82
Candidate Starts for JuliaChild_57:
(Start: 82 @39293 has 223 MA's), (102, 39236), (Start: 108 @39212 has 2 MA's), (127, 39089),

Gene: KADY_63 Start: 39149, Stop: 38742, Start Num: 84
Candidate Starts for KADY_63:
(Start: 84 @39149 has 115 MA's), (Start: 92 @39134 has 1 MA's), (Start: 97 @39122 has 1 MA's), (109, 39065), (124, 38960), (131, 38933),

Gene: KBG_56 Start: 41351, Stop: 40941, Start Num: 82
Candidate Starts for KBG_56:
(Start: 82 @41351 has 223 MA's), (Start: 108 @41270 has 2 MA's), (127, 41147),

Gene: KFPoly_55 Start: 38362, Stop: 37949, Start Num: 80
Candidate Starts for KFPoly_55:
(Start: 80 @38362 has 128 MA's), (116, 38215), (122, 38182), (123, 38170), (131, 38140),

Gene: KSSJEB_55 Start: 39071, Stop: 38661, Start Num: 82
Candidate Starts for KSSJEB_55:
(Start: 82 @39071 has 223 MA's), (Start: 108 @38990 has 2 MA's), (127, 38867),

Gene: Kachowdy_59 Start: 38715, Stop: 38308, Start Num: 79
Candidate Starts for Kachowdy_59:
(Start: 79 @38715 has 28 MA's), (114, 38583), (124, 38526), (131, 38499),

Gene: Kaine_39 Start: 29145, Stop: 29582, Start Num: 53
Candidate Starts for Kaine_39:
(Start: 53 @29145 has 14 MA's), (99, 29229), (110, 29277), (113, 29316), (125, 29385), (127, 29391), (128, 29394),

Gene: Kalb97_64 Start: 39006, Stop: 38599, Start Num: 84
Candidate Starts for Kalb97_64:
(Start: 84 @39006 has 115 MA's), (Start: 97 @38979 has 1 MA's), (109, 38922), (124, 38817), (131, 38790),

Gene: Kalnoky_64 Start: 39004, Stop: 38597, Start Num: 84
Candidate Starts for Kalnoky_64:
(Start: 84 @39004 has 115 MA's), (Start: 97 @38977 has 1 MA's), (109, 38920), (124, 38815), (131, 38788),

Gene: Kalpine_58 Start: 39348, Stop: 38926, Start Num: 61
Candidate Starts for Kalpine_58:
(Start: 61 @39348 has 1 MA's), (Start: 84 @39318 has 115 MA's), (123, 39135), (131, 39105), (134, 39063),

Gene: Kampy_55 Start: 38370, Stop: 37957, Start Num: 80
Candidate Starts for Kampy_55:
(Start: 80 @38370 has 128 MA's), (116, 38223), (122, 38190), (123, 38178), (131, 38148),

Gene: Kanely_58 Start: 40091, Stop: 39576, Start Num: 82
Candidate Starts for Kanely_58:
(Start: 82 @40091 has 223 MA's), (Start: 108 @40010 has 2 MA's), (114, 39956), (125, 39893), (127, 39887), (131, 39872), (139, 39644), (140, 39626),

Gene: Katalie_38 Start: 28095, Stop: 28529, Start Num: 55
Candidate Starts for Katalie_38:
(14, 27885), (18, 27924), (39, 28041), (48, 28083), (Start: 55 @28095 has 47 MA's), (Start: 63 @28110 has 2 MA's), (110, 28224), (125, 28332), (127, 28338),

Gene: Katalie136_55 Start: 38312, Stop: 37908, Start Num: 86
Candidate Starts for Katalie136_55:
(Start: 86 @38312 has 21 MA's), (111, 38222), (114, 38183), (123, 38129), (131, 38099),

Gene: KatherineG_67 Start: 38913, Stop: 38533, Start Num: 91
Candidate Starts for KatherineG_67:
(Start: 91 @38913 has 20 MA's), (120, 38766), (131, 38709), (134, 38667),

Gene: Kazan_62 Start: 37941, Stop: 37552, Start Num: 89
Candidate Starts for Kazan_62:

(Start: 89 @37941 has 69 MA's), (123, 37761), (131, 37731), (134, 37689),

Gene: Kenmech_59 Start: 41217, Stop: 40675, Start Num: 82
Candidate Starts for Kenmech_59:
(Start: 82 @41217 has 223 MA's), (Start: 108 @41136 has 2 MA's), (114, 41082), (125, 41019), (127, 41013), (131, 40998), (139, 40770), (140, 40752),

Gene: Kerberos_62 Start: 39117, Stop: 38728, Start Num: 82
Candidate Starts for Kerberos_62:
(28, 39261), (38, 39228), (Start: 82 @39117 has 223 MA's), (123, 38937), (131, 38907), (134, 38865),

Gene: Keziacharles14_60 Start: 40209, Stop: 39829, Start Num: 90
Candidate Starts for Keziacharles14_60:
(Start: 90 @40209 has 1 MA's), (109, 40134), (120, 40056), (131, 40002), (134, 39960),

Gene: KikiBouba_56 Start: 39693, Stop: 39178, Start Num: 82
Candidate Starts for KikiBouba_56:
(Start: 82 @39693 has 223 MA's), (Start: 108 @39612 has 2 MA's), (114, 39558), (125, 39495), (127, 39489), (131, 39474), (139, 39246), (140, 39228),

Gene: Killigrew_56 Start: 40271, Stop: 39861, Start Num: 82
Candidate Starts for Killigrew_56:
(Start: 82 @40271 has 223 MA's), (Start: 108 @40190 has 2 MA's), (127, 40067),

Gene: Kimba_60 Start: 38449, Stop: 38060, Start Num: 89
Candidate Starts for Kimba_60:
(1, 38878), (4, 38815), (28, 38593), (Start: 89 @38449 has 69 MA's), (131, 38239), (134, 38197),

Gene: Kingmustik0402_56 Start: 38357, Stop: 37944, Start Num: 80
Candidate Starts for Kingmustik0402_56:
(Start: 80 @38357 has 128 MA's), (116, 38210), (122, 38177), (123, 38165), (131, 38135),

Gene: Kinmap_56 Start: 37523, Stop: 37137, Start Num: 81
Candidate Starts for Kinmap_56:
(Start: 79 @37526 has 28 MA's), (Start: 81 @37523 has 2 MA's), (122, 37352), (131, 37310), (134, 37268),

Gene: Kipper29_61 Start: 37954, Stop: 37565, Start Num: 89
Candidate Starts for Kipper29_61:
(Start: 89 @37954 has 69 MA's), (123, 37774), (131, 37744), (134, 37702),

Gene: KittenMittens_54 Start: 37509, Stop: 37090, Start Num: 76
Candidate Starts for KittenMittens_54:
(Start: 76 @37509 has 10 MA's), (Start: 92 @37482 has 1 MA's), (114, 37365), (131, 37281),

Gene: Koan_54 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Koan_54:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Koduck_61 Start: 38575, Stop: 38183, Start Num: 87
Candidate Starts for Koduck_61:
(Start: 87 @38575 has 62 MA's), (120, 38419), (123, 38395), (131, 38365), (134, 38323),

Gene: Koko_63 Start: 38483, Stop: 38091, Start Num: 89
Candidate Starts for Koko_63:
(Start: 61 @38513 has 1 MA's), (Start: 89 @38483 has 69 MA's), (Start: 108 @38408 has 2 MA's), (123, 38300), (131, 38270), (134, 38228),

Gene: Koreni_55 Start: 38049, Stop: 37636, Start Num: 80
Candidate Starts for Koreni_55:
(Start: 80 @38049 has 128 MA's), (116, 37902), (122, 37869), (123, 37857), (131, 37827),

Gene: Kratark_56 Start: 38481, Stop: 38077, Start Num: 86
Candidate Starts for Kratark_56:
(Start: 86 @38481 has 21 MA's), (111, 38391), (114, 38352), (122, 38310), (123, 38298), (131, 38268),

Gene: Kremtemulon_56 Start: 38316, Stop: 37903, Start Num: 80
Candidate Starts for Kremtemulon_56:
(Start: 80 @38316 has 128 MA's), (116, 38169), (122, 38136), (123, 38124), (131, 38094),

Gene: Krishelle_49 Start: 35866, Stop: 35456, Start Num: 83
Candidate Starts for Krishelle_49:
(Start: 40 @35962 has 1 MA's), (Start: 83 @35866 has 37 MA's), (Start: 97 @35836 has 1 MA's), (106, 35800), (129, 35656), (131, 35647),

Gene: Kristoff_56 Start: 38648, Stop: 38235, Start Num: 80
Candidate Starts for Kristoff_56:
(Start: 80 @38648 has 128 MA's), (114, 38510), (124, 38453), (131, 38426),

Gene: Kugel_56 Start: 40339, Stop: 39824, Start Num: 82
Candidate Starts for Kugel_56:
(Start: 82 @40339 has 223 MA's), (Start: 108 @40258 has 2 MA's), (114, 40204), (125, 40141), (127, 40135), (131, 40120), (139, 39892), (140, 39874),

Gene: Kumquat_58 Start: 30795, Stop: 30403, Start Num: 69
Candidate Starts for Kumquat_58:
(Start: 69 @30795 has 36 MA's), (106, 30711), (107, 30708), (118, 30624), (122, 30600), (127, 30573),

Gene: KyMonks1A_58 Start: 39652, Stop: 39137, Start Num: 82
Candidate Starts for KyMonks1A_58:
(Start: 82 @39652 has 223 MA's), (Start: 108 @39571 has 2 MA's), (114, 39517), (125, 39454), (127, 39448), (131, 39433), (139, 39205), (140, 39187),

Gene: Kyee_56 Start: 38366, Stop: 37953, Start Num: 80
Candidate Starts for Kyee_56:
(Start: 80 @38366 has 128 MA's), (116, 38219), (122, 38186), (123, 38174), (131, 38144),

Gene: Kykar_55 Start: 39098, Stop: 38583, Start Num: 82
Candidate Starts for Kykar_55:
(Start: 82 @39098 has 223 MA's), (Start: 108 @39017 has 2 MA's), (114, 38963), (125, 38900), (127, 38894), (131, 38879), (139, 38651), (140, 38633),

Gene: L5_58 Start: 38662, Stop: 38270, Start Num: 87
Candidate Starts for L5_58:
(Start: 87 @38662 has 62 MA's), (120, 38506), (123, 38482), (131, 38452), (134, 38410),

Gene: LBerry_64 Start: 39125, Stop: 38718, Start Num: 84
Candidate Starts for LBerry_64:
(Start: 84 @39125 has 115 MA's), (Start: 92 @39110 has 1 MA's), (Start: 97 @39098 has 1 MA's), (109, 39041), (124, 38936), (131, 38909),

Gene: LHTSCC_58 Start: 38771, Stop: 38358, Start Num: 80
Candidate Starts for LHTSCC_58:
(Start: 80 @38771 has 128 MA's), (116, 38624), (123, 38579), (131, 38549),

Gene: LadyBird_65 Start: 40052, Stop: 39660, Start Num: 84
Candidate Starts for LadyBird_65:
(Start: 84 @40052 has 115 MA's), (120, 39893), (123, 39869), (131, 39839), (134, 39797),

Gene: Lambert1_58 Start: 38737, Stop: 38330, Start Num: 79
Candidate Starts for Lambert1_58:
(Start: 79 @38737 has 28 MA's), (114, 38605), (124, 38548), (131, 38521),

Gene: Lamina13_56 Start: 39126, Stop: 38584, Start Num: 82
Candidate Starts for Lamina13_56:
(12, 39396), (Start: 82 @39126 has 223 MA's), (Start: 108 @39045 has 2 MA's), (114, 38991), (125, 38928), (127, 38922), (131, 38907), (139, 38679), (140, 38661),

Gene: Landor_60 Start: 40209, Stop: 39805, Start Num: 72
Candidate Starts for Landor_60:
(Start: 43 @40275 has 1 MA's), (Start: 49 @40257 has 1 MA's), (51, 40251), (52, 40245), (Start: 72 @40209 has 58 MA's), (120, 40038), (122, 40026), (123, 40014), (131, 39984), (134, 39942),

Gene: Lannister_40 Start: 28575, Stop: 29006, Start Num: 55
Candidate Starts for Lannister_40:
(39, 28521), (48, 28563), (Start: 55 @28575 has 47 MA's), (Start: 63 @28590 has 2 MA's), (110, 28701), (125, 28809), (127, 28815),

Gene: LappelDuVide_56 Start: 38367, Stop: 37954, Start Num: 80
Candidate Starts for LappelDuVide_56:
(Start: 80 @38367 has 128 MA's), (116, 38220), (122, 38187), (123, 38175), (131, 38145),

Gene: Larenn_59 Start: 39283, Stop: 38891, Start Num: 84
Candidate Starts for Larenn_59:
(Start: 61 @39313 has 1 MA's), (Start: 84 @39283 has 115 MA's), (123, 39100), (131, 39070), (134, 39028),

Gene: LarryKay_63 Start: 39151, Stop: 38744, Start Num: 84
Candidate Starts for LarryKay_63:
(Start: 84 @39151 has 115 MA's), (Start: 92 @39136 has 1 MA's), (Start: 97 @39124 has 1 MA's), (109, 39067), (124, 38962), (131, 38935),

Gene: LastResort_65 Start: 38492, Stop: 38112, Start Num: 91
Candidate Starts for LastResort_65:
(Start: 91 @38492 has 20 MA's), (120, 38345), (131, 38288), (134, 38246),

Gene: Legacy_38 Start: 27526, Stop: 27957, Start Num: 55
Candidate Starts for Legacy_38:

(Start: 55 @27526 has 47 MA's), (Start: 83 @27571 has 37 MA's), (110, 27652), (125, 27760), (127, 27766),

Gene: Lemur_56 Start: 38365, Stop: 37952, Start Num: 80
Candidate Starts for Lemur_56:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: Leogania_60 Start: 40082, Stop: 39678, Start Num: 72
Candidate Starts for Leogania_60:
(Start: 49 @40130 has 1 MA's), (Start: 72 @40082 has 58 MA's), (123, 39887), (131, 39857), (134, 39815),

Gene: Lesedi_52 Start: 38076, Stop: 37561, Start Num: 82
Candidate Starts for Lesedi_52:
(Start: 82 @38076 has 223 MA's), (Start: 108 @37995 has 2 MA's), (114, 37941), (125, 37878), (127, 37872), (131, 37857), (139, 37629), (140, 37611),

Gene: Lev2_54 Start: 38505, Stop: 38095, Start Num: 87
Candidate Starts for Lev2_54:
(Start: 87 @38505 has 62 MA's), (115, 38370), (121, 38343), (122, 38334), (131, 38292),

Gene: Levia_53 Start: 38914, Stop: 38372, Start Num: 82
Candidate Starts for Levia_53:
(12, 39184), (Start: 82 @38914 has 223 MA's), (Start: 108 @38833 has 2 MA's), (114, 38779), (125, 38716), (127, 38710), (131, 38695), (139, 38467), (140, 38449),

Gene: Leviathan_62 Start: 39759, Stop: 39358, Start Num: 72
Candidate Starts for Leviathan_62:
(Start: 49 @39804 has 1 MA's), (Start: 72 @39759 has 58 MA's), (123, 39567), (131, 39537), (134, 39495),

Gene: Leviticus_38 Start: 27555, Stop: 27986, Start Num: 55
Candidate Starts for Leviticus_38:
(Start: 55 @27555 has 47 MA's), (Start: 83 @27600 has 37 MA's), (110, 27681), (125, 27789), (127, 27795),

Gene: Licorice_58 Start: 41440, Stop: 40925, Start Num: 82
Candidate Starts for Licorice_58:
(15, 41692), (32, 41572), (Start: 82 @41440 has 223 MA's), (Start: 108 @41359 has 2 MA's), (114, 41305), (125, 41242), (127, 41236), (131, 41221), (139, 40993), (140, 40975),

Gene: Lika_38 Start: 28382, Stop: 28801, Start Num: 63
Candidate Starts for Lika_38:
(Start: 43 @28340 has 1 MA's), (46, 28349), (Start: 54 @28367 has 8 MA's), (Start: 63 @28382 has 2 MA's), (105, 28469), (110, 28496), (125, 28604), (127, 28610),

Gene: LilBib_56 Start: 40854, Stop: 40312, Start Num: 82
Candidate Starts for LilBib_56:
(Start: 82 @40854 has 223 MA's), (Start: 108 @40773 has 2 MA's), (114, 40719), (125, 40656), (127, 40650), (131, 40635), (139, 40407), (140, 40389),

Gene: LilTurb_61 Start: 39583, Stop: 39182, Start Num: 72
Candidate Starts for LilTurb_61:

(Start: 49 @39628 has 1 MA's), (Start: 72 @39583 has 58 MA's), (123, 39391), (131, 39361), (134, 39319),

Gene: Lilbunny_61 Start: 38050, Stop: 37661, Start Num: 89
Candidate Starts for Lilbunny_61:
(Start: 89 @38050 has 69 MA's), (123, 37870), (131, 37840), (134, 37798),

Gene: Lilith_63 Start: 39114, Stop: 38707, Start Num: 84
Candidate Starts for Lilith_63:
(Start: 84 @39114 has 115 MA's), (Start: 92 @39099 has 1 MA's), (Start: 97 @39087 has 1 MA's), (109, 39030), (124, 38925), (131, 38898),

Gene: Lilleskat_60 Start: 39091, Stop: 38690, Start Num: 64
Candidate Starts for Lilleskat_60:
(Start: 64 @39091 has 3 MA's), (120, 38917), (123, 38893), (131, 38863), (134, 38821),

Gene: Lillie_49 Start: 35506, Stop: 35096, Start Num: 83
Candidate Starts for Lillie_49:
(Start: 40 @35602 has 1 MA's), (Start: 83 @35506 has 37 MA's), (Start: 97 @35476 has 1 MA's), (106, 35440), (129, 35296), (131, 35287),

Gene: LionsBait_60 Start: 40738, Stop: 40337, Start Num: 72
Candidate Starts for LionsBait_60:
(Start: 72 @40738 has 58 MA's), (123, 40546), (131, 40516), (134, 40474),

Gene: LittleB_56 Start: 38369, Stop: 37956, Start Num: 80
Candidate Starts for LittleB_56:
(Start: 80 @38369 has 128 MA's), (116, 38222), (122, 38189), (123, 38177), (131, 38147),

Gene: LittleCherry_54 Start: 38713, Stop: 38303, Start Num: 87
Candidate Starts for LittleCherry_54:
(Start: 87 @38713 has 62 MA's), (115, 38578), (121, 38551), (122, 38542), (131, 38500),

Gene: LittleGuy_56 Start: 38264, Stop: 37851, Start Num: 80
Candidate Starts for LittleGuy_56:
(Start: 80 @38264 has 128 MA's), (116, 38117), (122, 38084), (123, 38072), (131, 38042),

Gene: LochMonster_57 Start: 38604, Stop: 38191, Start Num: 80
Candidate Starts for LochMonster_57:
(Start: 80 @38604 has 128 MA's), (116, 38457), (122, 38424), (123, 38412), (131, 38382),

Gene: Lockley_54 Start: 39046, Stop: 38504, Start Num: 82
Candidate Starts for Lockley_54:
(Start: 82 @39046 has 223 MA's), (Start: 108 @38965 has 2 MA's), (114, 38911), (125, 38848), (127, 38842), (131, 38827), (139, 38599), (140, 38581),

Gene: Lokk_57 Start: 38655, Stop: 38260, Start Num: 82
Candidate Starts for Lokk_57:
(Start: 82 @38655 has 223 MA's), (123, 38469), (131, 38439), (134, 38397),

Gene: LoneWolf_61 Start: 39104, Stop: 38718, Start Num: 88
Candidate Starts for LoneWolf_61:

(41, 39191), (Start: 88 @39104 has 18 MA's), (120, 38945), (122, 38933), (123, 38921), (131, 38891), (134, 38849),

Gene: Loofah_39 Start: 28786, Stop: 29220, Start Num: 69
Candidate Starts for Loofah_39:
(Start: 57 @28777 has 1 MA's), (Start: 69 @28786 has 36 MA's), (101, 28855), (110, 28900), (113, 28939), (130, 29029), (138, 29194),

Gene: Looper_66 Start: 38404, Stop: 38024, Start Num: 91
Candidate Starts for Looper_66:
(Start: 91 @38404 has 20 MA's), (120, 38257), (131, 38200), (134, 38158),

Gene: Lopton_56 Start: 41544, Stop: 41134, Start Num: 82
Candidate Starts for Lopton_56:
(Start: 82 @41544 has 223 MA's), (Start: 108 @41463 has 2 MA's), (127, 41340),

Gene: Lorelei_39 Start: 28430, Stop: 28861, Start Num: 55
Candidate Starts for Lorelei_39:
(14, 28217), (30, 28343), (Start: 55 @28430 has 47 MA's), (Start: 63 @28445 has 2 MA's), (110, 28556), (125, 28664), (127, 28670),

Gene: Lorenzo_56 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Lorenzo_56:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Loser_62 Start: 39935, Stop: 39540, Start Num: 82
Candidate Starts for Loser_62:
(9, 40253), (16, 40175), (28, 40079), (Start: 82 @39935 has 223 MA's), (Start: 97 @39905 has 1 MA's), (123, 39749), (131, 39719), (134, 39677),

Gene: Louie6_62 Start: 39150, Stop: 38743, Start Num: 84
Candidate Starts for Louie6_62:
(Start: 84 @39150 has 115 MA's), (Start: 92 @39135 has 1 MA's), (Start: 97 @39123 has 1 MA's), (109, 39066), (122, 38976), (124, 38961), (131, 38934),

Gene: Lowa_63 Start: 39113, Stop: 38706, Start Num: 84
Candidate Starts for Lowa_63:
(Start: 84 @39113 has 115 MA's), (Start: 92 @39098 has 1 MA's), (Start: 97 @39086 has 1 MA's), (109, 39029), (124, 38924), (131, 38897),

Gene: Luchador_63 Start: 40785, Stop: 40399, Start Num: 85
Candidate Starts for Luchador_63:
(Start: 85 @40785 has 2 MA's), (114, 40656), (120, 40626), (123, 40602), (131, 40572),

Gene: Lucivia_61 Start: 38926, Stop: 38537, Start Num: 89
Candidate Starts for Lucivia_61:
(Start: 89 @38926 has 69 MA's), (131, 38716), (134, 38674),

Gene: Lucyedi_62 Start: 39436, Stop: 39044, Start Num: 84
Candidate Starts for Lucyedi_62:
(Start: 84 @39436 has 115 MA's), (Start: 97 @39409 has 1 MA's), (111, 39346), (120, 39277), (123, 39253), (131, 39223), (134, 39181),

Gene: LugYA_66 Start: 39122, Stop: 38715, Start Num: 84
Candidate Starts for LugYA_66:
(Start: 84 @39122 has 115 MA's), (Start: 92 @39107 has 1 MA's), (Start: 97 @39095 has 1 MA's), (109, 39038), (124, 38933), (131, 38906),

Gene: LunarLander_57 Start: 39373, Stop: 38858, Start Num: 82
Candidate Starts for LunarLander_57:
(Start: 82 @39373 has 223 MA's), (Start: 108 @39292 has 2 MA's), (114, 39238), (125, 39175), (127, 39169), (131, 39154), (139, 38926), (140, 38908),

Gene: Lunsford_57 Start: 38362, Stop: 37949, Start Num: 80
Candidate Starts for Lunsford_57:
(Start: 80 @38362 has 128 MA's), (116, 38215), (122, 38182), (123, 38170), (131, 38140),

Gene: MA5_59 Start: 38158, Stop: 37742, Start Num: 76
Candidate Starts for MA5_59:
(Start: 76 @38158 has 10 MA's), (114, 38017), (124, 37960), (131, 37933),

Gene: MK4_59 Start: 38242, Stop: 37826, Start Num: 76
Candidate Starts for MK4_59:
(Start: 76 @38242 has 10 MA's), (114, 38101), (124, 38044), (131, 38017),

Gene: MPlant7149_54 Start: 38172, Stop: 37657, Start Num: 82
Candidate Starts for MPlant7149_54:
(Start: 82 @38172 has 223 MA's), (Start: 108 @38091 has 2 MA's), (114, 38037), (125, 37974), (127, 37968), (131, 37953), (139, 37725), (140, 37707),

Gene: MadMarie_63 Start: 39123, Stop: 38716, Start Num: 84
Candidate Starts for MadMarie_63:
(Start: 84 @39123 has 115 MA's), (Start: 92 @39108 has 1 MA's), (Start: 97 @39096 has 1 MA's), (109, 39039), (124, 38934), (131, 38907),

Gene: Magnito_54 Start: 39339, Stop: 38824, Start Num: 82
Candidate Starts for Magnito_54:
(Start: 82 @39339 has 223 MA's), (Start: 108 @39258 has 2 MA's), (114, 39204), (125, 39141), (127, 39135), (131, 39120), (139, 38892), (140, 38874),

Gene: Mainiac_63 Start: 39115, Stop: 38708, Start Num: 84
Candidate Starts for Mainiac_63:
(Start: 84 @39115 has 115 MA's), (Start: 92 @39100 has 1 MA's), (Start: 97 @39088 has 1 MA's), (109, 39031), (124, 38926), (131, 38899),

Gene: Makemake_56 Start: 40005, Stop: 39490, Start Num: 82
Candidate Starts for Makemake_56:
(Start: 82 @40005 has 223 MA's), (Start: 108 @39924 has 2 MA's), (114, 39870), (125, 39807), (127, 39801), (131, 39786), (139, 39558), (140, 39540),

Gene: Malec_60 Start: 39850, Stop: 39458, Start Num: 84
Candidate Starts for Malec_60:
(Start: 61 @39880 has 1 MA's), (Start: 84 @39850 has 115 MA's), (123, 39667), (131, 39637), (134, 39595),

Gene: Malinsilva_65 Start: 39113, Stop: 38706, Start Num: 84

Candidate Starts for Malinsilva_65:
(Start: 84 @39113 has 115 MA's), (Start: 92 @39098 has 1 MA's), (Start: 97 @39086 has 1 MA's), (109, 39029), (124, 38924), (131, 38897),

Gene: Maminiaina_59 Start: 39073, Stop: 38687, Start Num: 89
Candidate Starts for Maminiaina_59:
(Start: 89 @39073 has 69 MA's), (120, 38914), (123, 38890), (131, 38860), (134, 38818),

Gene: Manatee_57 Start: 39703, Stop: 39293, Start Num: 82
Candidate Starts for Manatee_57:
(Start: 82 @39703 has 223 MA's), (Start: 108 @39622 has 2 MA's), (127, 39499),

Gene: Maneekul_38 Start: 27949, Stop: 28380, Start Num: 55
Candidate Starts for Maneekul_38:
(39, 27895), (48, 27937), (Start: 55 @27949 has 47 MA's), (Start: 63 @27964 has 2 MA's), (110, 28075), (127, 28189),

Gene: Manu_63 Start: 39007, Stop: 38600, Start Num: 84
Candidate Starts for Manu_63:
(Start: 84 @39007 has 115 MA's), (Start: 97 @38980 has 1 MA's), (109, 38923), (124, 38818), (131, 38791),

Gene: Manuel_56 Start: 30975, Stop: 30586, Start Num: 71
Candidate Starts for Manuel_56:
(Start: 71 @30975 has 12 MA's), (118, 30807), (122, 30783), (127, 30756),

Gene: MarQuardt_63 Start: 39123, Stop: 38716, Start Num: 84
Candidate Starts for MarQuardt_63:
(Start: 84 @39123 has 115 MA's), (Start: 92 @39108 has 1 MA's), (Start: 97 @39096 has 1 MA's), (109, 39039), (124, 38934), (131, 38907),

Gene: Marav_42 Start: 29341, Stop: 29775, Start Num: 69
Candidate Starts for Marav_42:
(8, 29038), (36, 29242), (Start: 69 @29341 has 36 MA's), (101, 29410), (110, 29455), (113, 29494), (138, 29752),

Gene: Marcell_53 Start: 38698, Stop: 38183, Start Num: 82
Candidate Starts for Marcell_53:
(Start: 82 @38698 has 223 MA's), (102, 38641), (Start: 108 @38617 has 2 MA's), (114, 38563), (125, 38500), (127, 38494), (131, 38479), (139, 38251), (140, 38233),

Gene: Marchy_50 Start: 36607, Stop: 36092, Start Num: 82
Candidate Starts for Marchy_50:
(12, 36877), (Start: 82 @36607 has 223 MA's), (Start: 108 @36526 has 2 MA's), (114, 36472), (125, 36409), (127, 36403), (131, 36388), (139, 36160), (140, 36142),

Gene: Marco3_59 Start: 41282, Stop: 40767, Start Num: 82
Candidate Starts for Marco3_59:
(Start: 82 @41282 has 223 MA's), (Start: 108 @41201 has 2 MA's), (114, 41147), (125, 41084), (127, 41078), (131, 41063), (139, 40835), (140, 40817),

Gene: Margo_58 Start: 38763, Stop: 38356, Start Num: 79
Candidate Starts for Margo_58:

(Start: 79 @38763 has 28 MA's), (114, 38631), (124, 38574), (131, 38547),

Gene: Marius_64 Start: 39004, Stop: 38597, Start Num: 84
Candidate Starts for Marius_64:
(Start: 84 @39004 has 115 MA's), (Start: 97 @38977 has 1 MA's), (109, 38920), (124, 38815), (131, 38788),

Gene: Maroc7_54 Start: 39900, Stop: 39484, Start Num: 82
Candidate Starts for Maroc7_54:
(Start: 82 @39900 has 223 MA's), (120, 39735), (127, 39696), (131, 39681),

Gene: Marsha_55 Start: 40128, Stop: 39613, Start Num: 82
Candidate Starts for Marsha_55:
(Start: 82 @40128 has 223 MA's), (Start: 108 @40047 has 2 MA's), (114, 39993), (125, 39930), (127, 39924), (131, 39909), (139, 39681), (140, 39663),

Gene: MaryBeth_55 Start: 39925, Stop: 39410, Start Num: 82
Candidate Starts for MaryBeth_55:
(Start: 82 @39925 has 223 MA's), (Start: 108 @39844 has 2 MA's), (114, 39790), (125, 39727), (127, 39721), (131, 39706), (139, 39478), (140, 39460),

Gene: MarysWell_54 Start: 39004, Stop: 38594, Start Num: 87
Candidate Starts for MarysWell_54:
(Start: 87 @39004 has 62 MA's), (115, 38869), (121, 38842), (122, 38833), (131, 38791),

Gene: Maxo_57 Start: 38370, Stop: 37957, Start Num: 80
Candidate Starts for Maxo_57:
(Start: 80 @38370 has 128 MA's), (116, 38223), (122, 38190), (123, 38178), (131, 38148),

Gene: Mayonnaise_55 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Mayonnaise_55:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Mazhar510_56 Start: 38369, Stop: 37956, Start Num: 80
Candidate Starts for Mazhar510_56:
(Start: 80 @38369 has 128 MA's), (116, 38222), (122, 38189), (123, 38177), (131, 38147),

Gene: McFly_61 Start: 37935, Stop: 37546, Start Num: 89
Candidate Starts for McFly_61:
(Start: 89 @37935 has 69 MA's), (123, 37755), (131, 37725), (134, 37683),

Gene: McGuire_57 Start: 39169, Stop: 38654, Start Num: 82
Candidate Starts for McGuire_57:
(Start: 82 @39169 has 223 MA's), (Start: 108 @39088 has 2 MA's), (114, 39034), (125, 38971), (127, 38965), (131, 38950), (139, 38722), (140, 38704),

Gene: McSinger_56 Start: 39315, Stop: 38806, Start Num: 82
Candidate Starts for McSinger_56:
(Start: 82 @39315 has 223 MA's), (Start: 108 @39234 has 2 MA's), (114, 39180), (125, 39117), (127, 39111), (131, 39096), (139, 38868), (140, 38850),

Gene: Medusa_56 Start: 38367, Stop: 37954, Start Num: 80
Candidate Starts for Medusa_56:

(Start: 80 @38367 has 128 MA's), (116, 38220), (122, 38187), (123, 38175), (131, 38145),

Gene: MeeZee_56 Start: 38365, Stop: 37952, Start Num: 80
Candidate Starts for MeeZee_56:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: Melvin_58 Start: 38363, Stop: 37950, Start Num: 80
Candidate Starts for Melvin_58:
(Start: 80 @38363 has 128 MA's), (116, 38216), (122, 38183), (123, 38171), (131, 38141),

Gene: MetalQZJ_54 Start: 39925, Stop: 39410, Start Num: 82
Candidate Starts for MetalQZJ_54:
(Start: 82 @39925 has 223 MA's), (Start: 108 @39844 has 2 MA's), (114, 39790), (125, 39727), (127, 39721), (131, 39706), (139, 39478), (140, 39460),

Gene: Methuselah_58 Start: 39145, Stop: 38738, Start Num: 84
Candidate Starts for Methuselah_58:
(Start: 84 @39145 has 115 MA's), (Start: 92 @39130 has 1 MA's), (Start: 97 @39118 has 1 MA's), (109, 39061), (124, 38956), (131, 38929),

Gene: Micasa_55 Start: 38878, Stop: 38468, Start Num: 87
Candidate Starts for Micasa_55:
(Start: 87 @38878 has 62 MA's), (115, 38743), (121, 38716), (122, 38707), (131, 38665),

Gene: Michley_55 Start: 39579, Stop: 39163, Start Num: 82
Candidate Starts for Michley_55:
(Start: 82 @39579 has 223 MA's), (120, 39414), (127, 39375), (131, 39360),

Gene: MiculUcigas_60 Start: 38889, Stop: 38485, Start Num: 72
Candidate Starts for MiculUcigas_60:
(52, 38922), (Start: 67 @38895 has 2 MA's), (Start: 72 @38889 has 58 MA's), (123, 38694), (131, 38664),

Gene: Midas2_53 Start: 38786, Stop: 38376, Start Num: 87
Candidate Starts for Midas2_53:
(Start: 87 @38786 has 62 MA's), (115, 38651), (121, 38624), (122, 38615), (131, 38573),

Gene: Milcery_54 Start: 38661, Stop: 38251, Start Num: 87
Candidate Starts for Milcery_54:
(Start: 87 @38661 has 62 MA's), (115, 38526), (121, 38499), (122, 38490), (131, 38448),

Gene: MilleFeuille_55 Start: 39084, Stop: 38569, Start Num: 82
Candidate Starts for MilleFeuille_55:
(Start: 82 @39084 has 223 MA's), (Start: 108 @39003 has 2 MA's), (114, 38949), (125, 38886), (127, 38880), (131, 38865), (139, 38637), (140, 38619),

Gene: Millski_55 Start: 38369, Stop: 37956, Start Num: 80
Candidate Starts for Millski_55:
(Start: 80 @38369 has 128 MA's), (116, 38222), (122, 38189), (123, 38177), (131, 38147),

Gene: MinecraftSteve_67 Start: 38728, Stop: 38348, Start Num: 91
Candidate Starts for MinecraftSteve_67:
(Start: 91 @38728 has 20 MA's), (120, 38581), (131, 38524), (134, 38482),

Gene: Miramae_54 Start: 37773, Stop: 37369, Start Num: 86
Candidate Starts for Miramae_54:
(Start: 86 @37773 has 21 MA's), (114, 37644), (123, 37590), (131, 37560),

Gene: Misomonster_64 Start: 39148, Stop: 38741, Start Num: 84
Candidate Starts for Misomonster_64:
(Start: 84 @39148 has 115 MA's), (Start: 92 @39133 has 1 MA's), (Start: 97 @39121 has 1 MA's), (109, 39064), (124, 38959), (131, 38932),

Gene: Molly_57 Start: 38590, Stop: 38075, Start Num: 82
Candidate Starts for Molly_57:
(Start: 82 @38590 has 223 MA's), (Start: 108 @38509 has 2 MA's), (114, 38455), (125, 38392), (127, 38386), (131, 38371), (139, 38143), (140, 38125),

Gene: Monet_58 Start: 40345, Stop: 39830, Start Num: 82
Candidate Starts for Monet_58:
(Start: 82 @40345 has 223 MA's), (Start: 108 @40264 has 2 MA's), (114, 40210), (125, 40147), (127, 40141), (131, 40126), (139, 39898), (140, 39880),

Gene: Moose_55 Start: 38864, Stop: 38349, Start Num: 82
Candidate Starts for Moose_55:
(Start: 82 @38864 has 223 MA's), (Start: 108 @38783 has 2 MA's), (114, 38729), (125, 38666), (127, 38660), (131, 38645), (139, 38417), (140, 38399),

Gene: Morpher26_55 Start: 38333, Stop: 37929, Start Num: 86
Candidate Starts for Morpher26_55:
(Start: 86 @38333 has 21 MA's), (111, 38243), (114, 38204), (123, 38150), (131, 38120),

Gene: Morrow_57 Start: 38374, Stop: 37961, Start Num: 80
Candidate Starts for Morrow_57:
(Start: 80 @38374 has 128 MA's), (116, 38227), (122, 38194), (123, 38182), (131, 38152),

Gene: MrGordo_55 Start: 39382, Stop: 38972, Start Num: 82
Candidate Starts for MrGordo_55:
(Start: 82 @39382 has 223 MA's), (Start: 108 @39301 has 2 MA's), (127, 39178),

Gene: MuchMore_66 Start: 39113, Stop: 38706, Start Num: 84
Candidate Starts for MuchMore_66:
(Start: 84 @39113 has 115 MA's), (Start: 92 @39098 has 1 MA's), (Start: 97 @39086 has 1 MA's), (109, 39029), (124, 38924), (131, 38897),

Gene: Mule_53 Start: 37660, Stop: 37115, Start Num: 60
Candidate Starts for Mule_53:
(Start: 60 @37660 has 2 MA's), (Start: 66 @37651 has 2 MA's), (117, 37483), (120, 37465), (125, 37432), (127, 37426), (131, 37411), (139, 37183), (140, 37165),

Gene: Mundrea_55 Start: 38325, Stop: 37921, Start Num: 87
Candidate Starts for Mundrea_55:
(Start: 87 @38325 has 62 MA's), (114, 38196), (131, 38112),

Gene: Museum_57 Start: 39740, Stop: 39330, Start Num: 82
Candidate Starts for Museum_57:

(Start: 82 @39740 has 223 MA's), (Start: 108 @39659 has 2 MA's), (127, 39536),

Gene: MyraDee_54 Start: 35736, Stop: 35332, Start Num: 87
Candidate Starts for MyraDee_54:
(Start: 64 @35766 has 3 MA's), (Start: 87 @35736 has 62 MA's), (96, 35715), (122, 35565), (128, 35535), (131, 35523),

Gene: Myxus_60 Start: 39071, Stop: 38688, Start Num: 88
Candidate Starts for Myxus_60:
(Start: 64 @39101 has 3 MA's), (Start: 88 @39071 has 18 MA's), (120, 38915), (123, 38891), (131, 38861), (134, 38819),

Gene: NEHalo_54 Start: 39528, Stop: 39118, Start Num: 82
Candidate Starts for NEHalo_54:
(Start: 82 @39528 has 223 MA's), (Start: 108 @39447 has 2 MA's), (127, 39324),

Gene: NaSiaTalie_60 Start: 38983, Stop: 38579, Start Num: 72
Candidate Starts for NaSiaTalie_60:
(52, 39016), (Start: 67 @38989 has 2 MA's), (Start: 72 @38983 has 58 MA's), (123, 38788), (131, 38758),

Gene: Nabi_39 Start: 28430, Stop: 28861, Start Num: 55
Candidate Starts for Nabi_39:
(14, 28217), (30, 28343), (Start: 55 @28430 has 47 MA's), (Start: 63 @28445 has 2 MA's), (110, 28556), (125, 28664), (127, 28670),

Gene: Naca_55 Start: 39136, Stop: 38726, Start Num: 87
Candidate Starts for Naca_55:
(Start: 87 @39136 has 62 MA's), (115, 39001), (122, 38965), (131, 38923),

Gene: Naiad_48 Start: 35519, Stop: 35109, Start Num: 83
Candidate Starts for Naiad_48:
(Start: 40 @35615 has 1 MA's), (Start: 83 @35519 has 37 MA's), (Start: 97 @35489 has 1 MA's), (106, 35453), (129, 35309), (131, 35300),

Gene: Naira_58 Start: 41284, Stop: 40769, Start Num: 82
Candidate Starts for Naira_58:
(Start: 82 @41284 has 223 MA's), (Start: 108 @41203 has 2 MA's), (114, 41149), (125, 41086), (127, 41080), (131, 41065), (139, 40837), (140, 40819),

Gene: Naji_62 Start: 39118, Stop: 38729, Start Num: 82
Candidate Starts for Naji_62:
(Start: 82 @39118 has 223 MA's), (123, 38938), (131, 38908), (134, 38866),

Gene: Nancinator_49 Start: 35448, Stop: 35038, Start Num: 83
Candidate Starts for Nancinator_49:
(Start: 40 @35544 has 1 MA's), (Start: 83 @35448 has 37 MA's), (Start: 97 @35418 has 1 MA's), (106, 35382), (129, 35238), (131, 35229),

Gene: Nanodon_40 Start: 28195, Stop: 28632, Start Num: 55
Candidate Starts for Nanodon_40:
(Start: 55 @28195 has 47 MA's), (110, 28327), (125, 28435), (127, 28441),

Gene: Natosaleda_48 Start: 35447, Stop: 35037, Start Num: 83
Candidate Starts for Natosaleda_48:
(Start: 40 @35543 has 1 MA's), (Start: 83 @35447 has 37 MA's), (Start: 97 @35417 has 1 MA's), (106, 35381), (129, 35237), (131, 35228),

Gene: NearlyHeadless_60 Start: 38203, Stop: 37790, Start Num: 84
Candidate Starts for NearlyHeadless_60:
(Start: 84 @38203 has 115 MA's), (121, 38038), (122, 38029),

Gene: Nebs_57 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Nebs_57:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Nebulosus_65 Start: 38488, Stop: 38108, Start Num: 91
Candidate Starts for Nebulosus_65:
(Start: 91 @38488 has 20 MA's), (120, 38341), (131, 38284), (134, 38242),

Gene: Nedarya_63 Start: 38462, Stop: 38091, Start Num: 93
Candidate Starts for Nedarya_63:
(Start: 93 @38462 has 3 MA's), (Start: 97 @38450 has 1 MA's), (131, 38264), (134, 38222),

Gene: Neeharika16_60 Start: 37395, Stop: 37006, Start Num: 89
Candidate Starts for Neeharika16_60:
(Start: 89 @37395 has 69 MA's), (123, 37215), (131, 37185), (134, 37143),

Gene: Nemo27_56 Start: 38367, Stop: 37954, Start Num: 80
Candidate Starts for Nemo27_56:
(Start: 80 @38367 has 128 MA's), (116, 38220), (122, 38187), (123, 38175), (131, 38145),

Gene: Nerdos_37 Start: 27550, Stop: 27981, Start Num: 55
Candidate Starts for Nerdos_37:
(Start: 55 @27550 has 47 MA's), (Start: 83 @27595 has 37 MA's), (110, 27676), (125, 27784), (127, 27790),

Gene: Nerujay_58 Start: 40166, Stop: 39651, Start Num: 82
Candidate Starts for Nerujay_58:
(Start: 82 @40166 has 223 MA's), (Start: 108 @40085 has 2 MA's), (114, 40031), (125, 39968), (127, 39962), (131, 39947), (139, 39719), (140, 39701),

Gene: Newrala_61 Start: 37937, Stop: 37548, Start Num: 89
Candidate Starts for Newrala_61:
(Start: 89 @37937 has 69 MA's), (123, 37757), (131, 37727), (134, 37685),

Gene: Nhonho_55 Start: 40512, Stop: 39997, Start Num: 82
Candidate Starts for Nhonho_55:
(Start: 82 @40512 has 223 MA's), (Start: 108 @40431 has 2 MA's), (114, 40377), (125, 40314), (127, 40308), (131, 40293), (139, 40065), (140, 40047),

Gene: NicoleTera_58 Start: 39278, Stop: 38874, Start Num: 72
Candidate Starts for NicoleTera_58:
(Start: 72 @39278 has 58 MA's), (Start: 97 @39239 has 1 MA's), (123, 39083), (131, 39053), (134, 39011),

Gene: Nishikigoi_40 Start: 28628, Stop: 29059, Start Num: 69
Candidate Starts for Nishikigoi_40:
(Start: 69 @28628 has 36 MA's), (99, 28694), (101, 28697), (103, 28712), (110, 28742), (113, 28781), (125, 28850), (138, 29036),

Gene: Niza_58 Start: 41168, Stop: 40758, Start Num: 82
Candidate Starts for Niza_58:
(Start: 82 @41168 has 223 MA's), (Start: 108 @41087 has 2 MA's), (127, 40964),

Gene: Noella_58 Start: 38738, Stop: 38331, Start Num: 79
Candidate Starts for Noella_58:
(Start: 79 @38738 has 28 MA's), (114, 38606), (124, 38549), (131, 38522),

Gene: Noelle_56 Start: 38634, Stop: 38230, Start Num: 86
Candidate Starts for Noelle_56:
(Start: 86 @38634 has 21 MA's), (111, 38544), (114, 38505), (123, 38451), (131, 38421),

Gene: NorthStar_55 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for NorthStar_55:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Norz_57 Start: 40837, Stop: 40322, Start Num: 82
Candidate Starts for Norz_57:
(20, 41035), (23, 41023), (Start: 82 @40837 has 223 MA's), (Start: 108 @40756 has 2 MA's), (114, 40702), (125, 40639), (127, 40633), (131, 40618), (139, 40390), (140, 40372),

Gene: NotAPhaseMom_56 Start: 38372, Stop: 37959, Start Num: 80
Candidate Starts for NotAPhaseMom_56:
(Start: 80 @38372 has 128 MA's), (116, 38225), (122, 38192), (123, 38180), (131, 38150),

Gene: NothingSpecial_58 Start: 39659, Stop: 39267, Start Num: 84
Candidate Starts for NothingSpecial_58:
(Start: 84 @39659 has 115 MA's), (123, 39476), (131, 39446), (134, 39404),

Gene: Noxious_56 Start: 39884, Stop: 39369, Start Num: 82
Candidate Starts for Noxious_56:
(Start: 82 @39884 has 223 MA's), (Start: 108 @39803 has 2 MA's), (114, 39749), (125, 39686), (127, 39680), (131, 39665), (139, 39437), (140, 39419),

Gene: Nyxis_56 Start: 38258, Stop: 37845, Start Num: 80
Candidate Starts for Nyxis_56:
(Start: 80 @38258 has 128 MA's), (116, 38111), (122, 38078), (123, 38066), (131, 38036),

Gene: OKCentral2016_56 Start: 37976, Stop: 37563, Start Num: 80
Candidate Starts for OKCentral2016_56:
(Start: 80 @37976 has 128 MA's), (114, 37838), (124, 37781), (131, 37754),

Gene: OKaNui_56 Start: 38418, Stop: 38005, Start Num: 80
Candidate Starts for OKaNui_56:
(Start: 80 @38418 has 128 MA's), (116, 38271), (122, 38238), (123, 38226), (131, 38196),

Gene: Obama12_57 Start: 38755, Stop: 38342, Start Num: 80
Candidate Starts for Obama12_57:

(Start: 80 @38755 has 128 MA's), (116, 38608), (123, 38563), (131, 38533),

Gene: Odin_58 Start: 38180, Stop: 37788, Start Num: 84
Candidate Starts for Odin_58:
(Start: 84 @38180 has 115 MA's), (123, 37997), (131, 37967), (134, 37925),

Gene: Ohfah_57 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Ohfah_57:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Ohno789_57 Start: 40106, Stop: 39696, Start Num: 82
Candidate Starts for Ohno789_57:
(Start: 82 @40106 has 223 MA's), (Start: 108 @40025 has 2 MA's), (127, 39902),

Gene: OlanP_62 Start: 39180, Stop: 38773, Start Num: 84
Candidate Starts for OlanP_62:
(Start: 84 @39180 has 115 MA's), (Start: 97 @39153 has 1 MA's), (109, 39096), (124, 38991), (131, 38964),

Gene: Olicious_59 Start: 31216, Stop: 30827, Start Num: 71
Candidate Starts for Olicious_59:
(Start: 71 @31216 has 12 MA's), (98, 31171), (107, 31132), (114, 31066), (118, 31048), (122, 31024), (127, 30997),

Gene: Oliynyk_39 Start: 27909, Stop: 28343, Start Num: 55
Candidate Starts for Oliynyk_39:
(Start: 55 @27909 has 47 MA's), (110, 28038), (125, 28146), (127, 28152),

Gene: Ollie_63 Start: 38992, Stop: 38585, Start Num: 84
Candidate Starts for Ollie_63:
(Start: 84 @38992 has 115 MA's), (Start: 92 @38977 has 1 MA's), (Start: 97 @38965 has 1 MA's), (109, 38908), (124, 38803), (131, 38776),

Gene: Omar_41 Start: 28853, Stop: 29287, Start Num: 69
Candidate Starts for Omar_41:
(Start: 69 @28853 has 36 MA's), (101, 28922), (110, 28967), (113, 29006), (138, 29264),

Gene: Onglai_59 Start: 37412, Stop: 37029, Start Num: 88
Candidate Starts for Onglai_59:
(Start: 64 @37442 has 3 MA's), (65, 37439), (Start: 88 @37412 has 18 MA's), (120, 37256), (123, 37232), (131, 37202), (134, 37160),

Gene: Oofda_68 Start: 38691, Stop: 38311, Start Num: 91
Candidate Starts for Oofda_68:
(Start: 91 @38691 has 20 MA's), (120, 38544), (131, 38487), (134, 38445),

Gene: Oogway_55 Start: 39522, Stop: 39007, Start Num: 82
Candidate Starts for Oogway_55:
(Start: 82 @39522 has 223 MA's), (Start: 108 @39441 has 2 MA's), (114, 39387), (125, 39324), (127, 39318), (131, 39303), (139, 39075), (140, 39057),

Gene: Ozzie_38 Start: 27580, Stop: 27966, Start Num: 83
Candidate Starts for Ozzie_38:

(Start: 55 @27535 has 47 MA's), (Start: 83 @27580 has 37 MA's), (110, 27661), (125, 27769), (127, 27775),

Gene: OzzyJ_39 Start: 27912, Stop: 28346, Start Num: 55
Candidate Starts for OzzyJ_39:
(Start: 55 @27912 has 47 MA's), (Start: 63 @27927 has 2 MA's), (110, 28041), (127, 28155),

Gene: P28Green_64 Start: 39124, Stop: 38717, Start Num: 84
Candidate Starts for P28Green_64:
(Start: 84 @39124 has 115 MA's), (Start: 92 @39109 has 1 MA's), (Start: 97 @39097 has 1 MA's), (109, 39040), (124, 38935), (131, 38908),

Gene: PGHhamlin_65 Start: 39113, Stop: 38706, Start Num: 84
Candidate Starts for PGHhamlin_65:
(Start: 84 @39113 has 115 MA's), (Start: 92 @39098 has 1 MA's), (Start: 97 @39086 has 1 MA's), (109, 39029), (124, 38924), (131, 38897),

Gene: PP_59 Start: 42631, Stop: 42227, Start Num: 87
Candidate Starts for PP_59:
(Start: 87 @42631 has 62 MA's), (Start: 97 @42607 has 1 MA's), (114, 42502), (124, 42445), (125, 42439), (131, 42418),

Gene: PSullivan_56 Start: 38477, Stop: 38067, Start Num: 82
Candidate Starts for PSullivan_56:
(Start: 82 @38477 has 223 MA's), (102, 38420), (Start: 108 @38396 has 2 MA's), (127, 38273),

Gene: Pablito_38 Start: 28161, Stop: 28598, Start Num: 69
Candidate Starts for Pablito_38:
(Start: 69 @28161 has 36 MA's), (101, 28230), (103, 28245), (110, 28275), (113, 28314), (118, 28338), (132, 28410), (138, 28575),

Gene: PacerPaul_55 Start: 39873, Stop: 39358, Start Num: 82
Candidate Starts for PacerPaul_55:
(Start: 82 @39873 has 223 MA's), (Start: 108 @39792 has 2 MA's), (114, 39738), (125, 39675), (127, 39669), (131, 39654), (139, 39426), (140, 39408),

Gene: PackMan_59 Start: 39071, Stop: 38688, Start Num: 88
Candidate Starts for PackMan_59:
(Start: 88 @39071 has 18 MA's), (120, 38915), (122, 38903), (123, 38891), (131, 38861), (134, 38819),

Gene: Paedore_38 Start: 28771, Stop: 29205, Start Num: 69
Candidate Starts for Paedore_38:
(Start: 57 @28762 has 1 MA's), (Start: 69 @28771 has 36 MA's), (101, 28840), (110, 28885), (113, 28924), (130, 29014), (138, 29179),

Gene: PainterBoy_62 Start: 39395, Stop: 39003, Start Num: 84
Candidate Starts for PainterBoy_62:
(Start: 84 @39395 has 115 MA's), (Start: 97 @39368 has 1 MA's), (111, 39305), (120, 39236), (123, 39212), (131, 39182), (134, 39140),

Gene: Palestino_55 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Palestino_55:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Panamaxus_56 Start: 38737, Stop: 38330, Start Num: 79
Candidate Starts for Panamaxus_56:
(Start: 79 @38737 has 28 MA's), (114, 38605), (124, 38548), (131, 38521),

Gene: Paolo_41 Start: 29198, Stop: 29632, Start Num: 69
Candidate Starts for Paolo_41:
(Start: 69 @29198 has 36 MA's), (101, 29267), (110, 29312), (138, 29609),

Gene: Papez_58 Start: 41467, Stop: 40952, Start Num: 82
Candidate Starts for Papez_58:
(Start: 82 @41467 has 223 MA's), (Start: 108 @41386 has 2 MA's), (114, 41332), (125, 41269), (127, 41263), (131, 41248), (139, 41020), (140, 41002),

Gene: Paphu_54 Start: 38877, Stop: 38362, Start Num: 82
Candidate Starts for Paphu_54:
(12, 39147), (Start: 82 @38877 has 223 MA's), (Start: 108 @38796 has 2 MA's), (114, 38742), (125, 38679), (127, 38673), (131, 38658), (139, 38430), (140, 38412),

Gene: Paraselene_53 Start: 39982, Stop: 39467, Start Num: 82
Candidate Starts for Paraselene_53:
(Start: 82 @39982 has 223 MA's), (Start: 108 @39901 has 2 MA's), (114, 39847), (125, 39784), (127, 39778), (131, 39763), (139, 39535), (140, 39517),

Gene: Pari_58 Start: 39301, Stop: 38786, Start Num: 82
Candidate Starts for Pari_58:
(Start: 82 @39301 has 223 MA's), (Start: 108 @39220 has 2 MA's), (114, 39166), (125, 39103), (127, 39097), (131, 39082), (139, 38854), (140, 38836),

Gene: Parliament_55 Start: 39602, Stop: 39087, Start Num: 82
Candidate Starts for Parliament_55:
(12, 39872), (17, 39836), (Start: 82 @39602 has 223 MA's), (Start: 108 @39521 has 2 MA's), (114, 39467), (125, 39404), (127, 39398), (131, 39383), (139, 39155), (140, 39137),

Gene: Partridge_48 Start: 35804, Stop: 35394, Start Num: 83
Candidate Starts for Partridge_48:
(Start: 40 @35900 has 1 MA's), (Start: 83 @35804 has 37 MA's), (Start: 97 @35774 has 1 MA's), (106, 35738), (129, 35594), (131, 35585),

Gene: PascalRango_56 Start: 39820, Stop: 39305, Start Num: 82
Candidate Starts for PascalRango_56:
(Start: 82 @39820 has 223 MA's), (Start: 108 @39739 has 2 MA's), (114, 39685), (125, 39622), (127, 39616), (131, 39601), (139, 39373), (140, 39355),

Gene: PattyP_56 Start: 39934, Stop: 39524, Start Num: 82
Candidate Starts for PattyP_56:
(Start: 82 @39934 has 223 MA's), (Start: 108 @39853 has 2 MA's), (127, 39730),

Gene: Pavo_40 Start: 29603, Stop: 30040, Start Num: 53
Candidate Starts for Pavo_40:
(Start: 53 @29603 has 14 MA's), (99, 29687), (110, 29735), (113, 29774), (125, 29843), (127, 29849), (128, 29852),

Gene: Pawn_63 Start: 39011, Stop: 38604, Start Num: 84
Candidate Starts for Pawn_63:
(Start: 84 @39011 has 115 MA's), (Start: 97 @38984 has 1 MA's), (109, 38927), (124, 38822), (131, 38795),

Gene: Payneful_55 Start: 39324, Stop: 38809, Start Num: 82
Candidate Starts for Payneful_55:
(12, 39594), (Start: 82 @39324 has 223 MA's), (Start: 108 @39243 has 2 MA's), (114, 39189), (125, 39126), (127, 39120), (131, 39105), (139, 38877), (140, 38859),

Gene: PeaceMeal1_55 Start: 37510, Stop: 37091, Start Num: 76
Candidate Starts for PeaceMeal1_55:
(Start: 76 @37510 has 10 MA's), (Start: 92 @37483 has 1 MA's), (114, 37366), (131, 37282),

Gene: Peaches_55 Start: 38367, Stop: 37954, Start Num: 80
Candidate Starts for Peaches_55:
(Start: 80 @38367 has 128 MA's), (116, 38220), (122, 38187), (123, 38175), (131, 38145),

Gene: Pelly_56 Start: 39604, Stop: 39089, Start Num: 82
Candidate Starts for Pelly_56:
(15, 39856), (22, 39787), (Start: 82 @39604 has 223 MA's), (Start: 108 @39523 has 2 MA's), (114, 39469), (125, 39406), (127, 39400), (131, 39385), (139, 39157), (140, 39139),

Gene: Pembroke_63 Start: 39122, Stop: 38715, Start Num: 84
Candidate Starts for Pembroke_63:
(Start: 84 @39122 has 115 MA's), (Start: 92 @39107 has 1 MA's), (Start: 97 @39095 has 1 MA's), (109, 39038), (124, 38933), (131, 38906),

Gene: Penny1_64 Start: 39125, Stop: 38718, Start Num: 84
Candidate Starts for Penny1_64:
(Start: 84 @39125 has 115 MA's), (Start: 92 @39110 has 1 MA's), (Start: 97 @39098 has 1 MA's), (109, 39041), (124, 38936), (131, 38909),

Gene: Pepe_52 Start: 38093, Stop: 37551, Start Num: 82
Candidate Starts for Pepe_52:
(12, 38363), (17, 38327), (Start: 82 @38093 has 223 MA's), (Start: 108 @38012 has 2 MA's), (114, 37958), (125, 37895), (127, 37889), (131, 37874), (139, 37646), (140, 37628),

Gene: Percastrophe_59 Start: 31150, Stop: 30761, Start Num: 71
Candidate Starts for Percastrophe_59:
(Start: 71 @31150 has 12 MA's), (98, 31105), (107, 31066), (114, 31000), (118, 30982), (122, 30958), (127, 30931),

Gene: Perplexer_55 Start: 38309, Stop: 37905, Start Num: 86
Candidate Starts for Perplexer_55:
(Start: 86 @38309 has 21 MA's), (111, 38219), (114, 38180), (123, 38126), (131, 38096),

Gene: Perseus_56 Start: 40525, Stop: 40010, Start Num: 82
Candidate Starts for Perseus_56:
(Start: 82 @40525 has 223 MA's), (Start: 108 @40444 has 2 MA's), (114, 40390), (125, 40327), (127, 40321), (131, 40306), (139, 40078), (140, 40060),

Gene: PeterPeter_56 Start: 38365, Stop: 37952, Start Num: 80

Candidate Starts for PeterPeter_56:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: Petersenfast_60 Start: 38425, Stop: 38036, Start Num: 89
Candidate Starts for Petersenfast_60:
(Start: 89 @38425 has 69 MA's), (131, 38215), (134, 38173),

Gene: PetiteSangsue_55 Start: 38312, Stop: 37908, Start Num: 86
Candidate Starts for PetiteSangsue_55:
(Start: 86 @38312 has 21 MA's), (111, 38222), (114, 38183), (123, 38129), (131, 38099),

Gene: Petruchio_55 Start: 38969, Stop: 38454, Start Num: 82
Candidate Starts for Petruchio_55:
(Start: 82 @38969 has 223 MA's), (Start: 108 @38888 has 2 MA's), (114, 38834), (125, 38771), (127, 38765), (131, 38750), (139, 38522), (140, 38504),

Gene: PetterN_59 Start: 38751, Stop: 38341, Start Num: 87
Candidate Starts for PetterN_59:
(Start: 87 @38751 has 62 MA's), (115, 38616), (122, 38580), (131, 38538),

Gene: Ph8s_61 Start: 38534, Stop: 38145, Start Num: 75
Candidate Starts for Ph8s_61:
(Start: 75 @38534 has 2 MA's), (123, 38354), (131, 38324), (134, 38282),

Gene: Phacado_56 Start: 38367, Stop: 37954, Start Num: 80
Candidate Starts for Phacado_56:
(Start: 80 @38367 has 128 MA's), (116, 38220), (122, 38187), (123, 38175), (131, 38145),

Gene: Phaded_60 Start: 40254, Stop: 39784, Start Num: 43
Candidate Starts for Phaded_60:
(Start: 43 @40254 has 1 MA's), (Start: 49 @40236 has 1 MA's), (51, 40230), (52, 40224), (Start: 72 @40188 has 58 MA's), (120, 40017), (122, 40005), (123, 39993), (131, 39963), (134, 39921),

Gene: Phaeder_60 Start: 39071, Stop: 38688, Start Num: 88
Candidate Starts for Phaeder_60:
(Start: 88 @39071 has 18 MA's), (120, 38915), (122, 38903), (123, 38891), (131, 38861), (134, 38819),

Gene: PhailMary_48 Start: 35828, Stop: 35418, Start Num: 83
Candidate Starts for PhailMary_48:
(Start: 40 @35924 has 1 MA's), (Start: 83 @35828 has 37 MA's), (Start: 97 @35798 has 1 MA's), (106, 35762), (129, 35618), (131, 35609),

Gene: Phantastic_60 Start: 38419, Stop: 38003, Start Num: 76
Candidate Starts for Phantastic_60:
(Start: 76 @38419 has 10 MA's), (114, 38278), (124, 38221), (131, 38194),

Gene: Pharaoh_55 Start: 39123, Stop: 38731, Start Num: 89
Candidate Starts for Pharaoh_55:
(Start: 89 @39123 has 69 MA's), (120, 38964), (131, 38907), (134, 38865),

Gene: Phelipe_57 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Phelipe_57:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: PherrisBueller_55 Start: 38242, Stop: 37700, Start Num: 82
Candidate Starts for PherrisBueller_55:
(Start: 82 @38242 has 223 MA's), (Start: 108 @38161 has 2 MA's), (114, 38107), (125, 38044), (127, 38038), (131, 38023), (139, 37795), (140, 37777),

Gene: Phettuccine_38 Start: 27551, Stop: 27982, Start Num: 55
Candidate Starts for Phettuccine_38:
(Start: 55 @27551 has 47 MA's), (Start: 83 @27596 has 37 MA's), (110, 27677), (125, 27785), (127, 27791),

Gene: Phighter1804_56 Start: 38429, Stop: 38016, Start Num: 80
Candidate Starts for Phighter1804_56:
(Start: 80 @38429 has 128 MA's), (116, 38282), (122, 38249), (123, 38237), (131, 38207),

Gene: Phillis_58 Start: 37828, Stop: 37415, Start Num: 84
Candidate Starts for Phillis_58:
(52, 37882), (Start: 84 @37828 has 115 MA's), (122, 37654),

Gene: PhineBark_55 Start: 39932, Stop: 39390, Start Num: 82
Candidate Starts for PhineBark_55:
(12, 40202), (Start: 82 @39932 has 223 MA's), (Start: 108 @39851 has 2 MA's), (114, 39797), (125, 39734), (127, 39728), (131, 39713), (139, 39485), (140, 39467),

Gene: PhishRPhriends_61 Start: 38188, Stop: 37781, Start Num: 84
Candidate Starts for PhishRPhriends_61:
(Start: 84 @38188 has 115 MA's), (Start: 97 @38161 has 1 MA's), (109, 38104), (124, 37999), (131, 37972),

Gene: Phlei_50 Start: 38992, Stop: 38603, Start Num: 89
Candidate Starts for Phlei_50:
(Start: 89 @38992 has 69 MA's), (120, 38836), (131, 38782), (134, 38740),

Gene: Phlorence_52 Start: 38250, Stop: 37840, Start Num: 87
Candidate Starts for Phlorence_52:
(Start: 87 @38250 has 62 MA's), (115, 38115), (121, 38088), (122, 38079), (131, 38037),

Gene: Phoebe_64 Start: 39114, Stop: 38707, Start Num: 84
Candidate Starts for Phoebe_64:
(Start: 84 @39114 has 115 MA's), (Start: 92 @39099 has 1 MA's), (Start: 97 @39087 has 1 MA's), (109, 39030), (124, 38925), (131, 38898),

Gene: Phonnegut_60 Start: 39168, Stop: 38785, Start Num: 88
Candidate Starts for Phonnegut_60:
(Start: 64 @39198 has 3 MA's), (Start: 88 @39168 has 18 MA's), (120, 39012), (123, 38988), (131, 38958), (134, 38916),

Gene: Phontbonne_56 Start: 38259, Stop: 37846, Start Num: 80
Candidate Starts for Phontbonne_56:
(Start: 80 @38259 has 128 MA's), (116, 38112), (122, 38079), (123, 38067), (131, 38037),

Gene: Phoxy_63 Start: 39146, Stop: 38739, Start Num: 84
Candidate Starts for Phoxy_63:

(Start: 84 @39146 has 115 MA's), (Start: 92 @39131 has 1 MA's), (Start: 97 @39119 has 1 MA's), (109, 39062), (122, 38972), (124, 38957), (131, 38930),

Gene: Phrankenstein_49 Start: 35452, Stop: 35042, Start Num: 83
Candidate Starts for Phrankenstein_49:
(Start: 40 @35548 has 1 MA's), (Start: 83 @35452 has 37 MA's), (Start: 97 @35422 has 1 MA's), (106, 35386), (129, 35242), (131, 35233),

Gene: Phranny_64 Start: 38993, Stop: 38586, Start Num: 84
Candidate Starts for Phranny_64:
(Start: 84 @38993 has 115 MA's), (Start: 97 @38966 has 1 MA's), (109, 38909), (124, 38804), (131, 38777),

Gene: PickleBack_54 Start: 38497, Stop: 38087, Start Num: 87
Candidate Starts for PickleBack_54:
(Start: 87 @38497 has 62 MA's), (115, 38362), (121, 38335), (122, 38326), (131, 38284),

Gene: PinkPlastic_56 Start: 39204, Stop: 38689, Start Num: 82
Candidate Starts for PinkPlastic_56:
(Start: 82 @39204 has 223 MA's), (Start: 108 @39123 has 2 MA's), (114, 39069), (125, 39006), (127, 39000), (131, 38985), (139, 38757), (140, 38739),

Gene: Pinto_56 Start: 39808, Stop: 39293, Start Num: 82
Candidate Starts for Pinto_56:
(Start: 82 @39808 has 223 MA's), (Start: 108 @39727 has 2 MA's), (114, 39673), (125, 39610), (127, 39604), (131, 39589), (139, 39361), (140, 39343),

Gene: Pioneer_60 Start: 39168, Stop: 38785, Start Num: 88
Candidate Starts for Pioneer_60:
(Start: 64 @39198 has 3 MA's), (Start: 88 @39168 has 18 MA's), (120, 39012), (123, 38988), (131, 38958), (134, 38916),

Gene: Pipcraft_54 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Pipcraft_54:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Pippin_57 Start: 39496, Stop: 38981, Start Num: 82
Candidate Starts for Pippin_57:
(Start: 82 @39496 has 223 MA's), (Start: 108 @39415 has 2 MA's), (114, 39361), (125, 39298), (127, 39292), (131, 39277), (139, 39049), (140, 39031),

Gene: Piro94_60 Start: 39333, Stop: 38929, Start Num: 72
Candidate Starts for Piro94_60:
(Start: 72 @39333 has 58 MA's), (117, 39180), (123, 39138), (131, 39108),

Gene: Pistachio_60 Start: 38319, Stop: 37912, Start Num: 79
Candidate Starts for Pistachio_60:
(Start: 79 @38319 has 28 MA's), (114, 38187), (124, 38130), (131, 38103),

Gene: Pita2_59 Start: 39974, Stop: 39564, Start Num: 82
Candidate Starts for Pita2_59:
(Start: 82 @39974 has 223 MA's), (102, 39917), (Start: 108 @39893 has 2 MA's), (127, 39770),

Gene: Pmask_60 Start: 37938, Stop: 37549, Start Num: 89
Candidate Starts for Pmask_60:
(Start: 89 @37938 has 69 MA's), (123, 37758), (131, 37728), (134, 37686),

Gene: Pocahontas_58 Start: 38734, Stop: 38327, Start Num: 79
Candidate Starts for Pocahontas_58:
(Start: 79 @38734 has 28 MA's), (114, 38602), (124, 38545), (131, 38518),

Gene: Polymorphads_57 Start: 38361, Stop: 37948, Start Num: 80
Candidate Starts for Polymorphads_57:
(Start: 80 @38361 has 128 MA's), (116, 38214), (122, 38181), (123, 38169), (131, 38139),

Gene: Polyphemus_63 Start: 38323, Stop: 37931, Start Num: 89
Candidate Starts for Polyphemus_63:
(Start: 89 @38323 has 69 MA's), (Start: 108 @38248 has 2 MA's), (123, 38140), (131, 38110), (134, 38068),

Gene: Pomar16_99 Start: 39158, Stop: 38769, Start Num: 82
Candidate Starts for Pomar16_99:
(28, 39302), (38, 39269), (Start: 82 @39158 has 223 MA's), (123, 38978), (131, 38948), (134, 38906),

Gene: Ponzi_30 Start: 17377, Stop: 17021, Start Num: 97
Candidate Starts for Ponzi_30:
(Start: 67 @17425 has 2 MA's), (Start: 97 @17377 has 1 MA's), (104, 17350), (114, 17281), (127, 17212),

Gene: Poompha_55 Start: 37481, Stop: 37089, Start Num: 92
Candidate Starts for Poompha_55:
(Start: 76 @37508 has 10 MA's), (Start: 92 @37481 has 1 MA's), (114, 37364), (131, 37280),

Gene: Popcicle_58 Start: 38734, Stop: 38327, Start Num: 79
Candidate Starts for Popcicle_58:
(Start: 79 @38734 has 28 MA's), (114, 38602), (124, 38545), (131, 38518),

Gene: Power_59 Start: 39341, Stop: 38937, Start Num: 72
Candidate Starts for Power_59:
(Start: 72 @39341 has 58 MA's), (123, 39146), (131, 39116), (134, 39074),

Gene: PowerRanger_54 Start: 40717, Stop: 40202, Start Num: 82
Candidate Starts for PowerRanger_54:
(Start: 82 @40717 has 223 MA's), (Start: 108 @40636 has 2 MA's), (114, 40582), (125, 40519), (127, 40513), (131, 40498), (139, 40270), (140, 40252),

Gene: Priamo_63 Start: 37727, Stop: 37299, Start Num: 58
Candidate Starts for Priamo_63:
(Start: 58 @37727 has 4 MA's), (Start: 84 @37691 has 115 MA's), (123, 37508), (131, 37478), (134, 37436),

Gene: Prinashe11_53 Start: 38572, Stop: 38162, Start Num: 87
Candidate Starts for Prinashe11_53:
(Start: 87 @38572 has 62 MA's), (115, 38437), (121, 38410), (122, 38401), (131, 38359),

Gene: Priya_60 Start: 39138, Stop: 38755, Start Num: 87

Candidate Starts for Priya_60:
(Start: 69 @39165 has 36 MA's), (Start: 87 @39138 has 62 MA's), (120, 38982), (123, 38958), (131, 38928), (134, 38886),

Gene: ProMouse_58 Start: 39751, Stop: 39236, Start Num: 82
Candidate Starts for ProMouse_58:
(Start: 82 @39751 has 223 MA's), (Start: 108 @39670 has 2 MA's), (114, 39616), (125, 39553), (127, 39547), (131, 39532), (139, 39304), (140, 39286),

Gene: Provolone_40 Start: 28985, Stop: 29422, Start Num: 53
Candidate Starts for Provolone_40:
(Start: 53 @28985 has 14 MA's), (99, 29069), (110, 29117), (113, 29156), (125, 29225), (127, 29231), (128, 29234),

Gene: Prudy_59 Start: 39768, Stop: 39376, Start Num: 84
Candidate Starts for Prudy_59:
(Start: 84 @39768 has 115 MA's), (Start: 97 @39741 has 1 MA's), (123, 39585), (131, 39555), (134, 39513),

Gene: Puginator_41 Start: 29219, Stop: 29653, Start Num: 69
Candidate Starts for Puginator_41:
(8, 28913), (29, 29096), (42, 29153), (Start: 69 @29219 has 36 MA's), (101, 29288), (110, 29333), (138, 29630),

Gene: Pukovnik_58 Start: 39837, Stop: 39436, Start Num: 72
Candidate Starts for Pukovnik_58:
(Start: 49 @39885 has 1 MA's), (Start: 72 @39837 has 58 MA's), (120, 39669), (122, 39657), (123, 39645), (131, 39615), (134, 39573),

Gene: Pumbaa_56 Start: 38313, Stop: 37900, Start Num: 80
Candidate Starts for Pumbaa_56:
(Start: 80 @38313 has 128 MA's), (116, 38166), (122, 38133), (123, 38121), (131, 38091),

Gene: Puppet_56 Start: 39920, Stop: 39405, Start Num: 82
Candidate Starts for Puppet_56:
(Start: 82 @39920 has 223 MA's), (Start: 108 @39839 has 2 MA's), (114, 39785), (125, 39722), (127, 39716), (131, 39701), (139, 39473), (140, 39455),

Gene: Puppy_60 Start: 38391, Stop: 37984, Start Num: 79
Candidate Starts for Puppy_60:
(Start: 79 @38391 has 28 MA's), (114, 38259), (124, 38202), (131, 38175),

Gene: PurpleHaze_63 Start: 39006, Stop: 38599, Start Num: 84
Candidate Starts for PurpleHaze_63:
(Start: 84 @39006 has 115 MA's), (Start: 97 @38979 has 1 MA's), (109, 38922), (124, 38817), (131, 38790),

Gene: QTRlifeCrisis_55 Start: 39872, Stop: 39357, Start Num: 82
Candidate Starts for QTRlifeCrisis_55:
(Start: 82 @39872 has 223 MA's), (Start: 108 @39791 has 2 MA's), (114, 39737), (125, 39674), (127, 39668), (131, 39653), (139, 39425), (140, 39407),

Gene: Qobbit_60 Start: 39100, Stop: 38717, Start Num: 87

Candidate Starts for Qobbit_60:
(Start: 69 @39127 has 36 MA's), (Start: 87 @39100 has 62 MA's), (120, 38944), (123, 38920), (131, 38890), (134, 38848),

Gene: QueenB2_59 Start: 39319, Stop: 38915, Start Num: 72
Candidate Starts for QueenB2_59:
(Start: 40 @39394 has 1 MA's), (Start: 72 @39319 has 58 MA's), (123, 39124), (131, 39094), (134, 39052),

Gene: QueenBeesly_60 Start: 39288, Stop: 38884, Start Num: 72
Candidate Starts for QueenBeesly_60:
(Start: 72 @39288 has 58 MA's), (123, 39093), (131, 39063), (134, 39021),

Gene: QuinnKiro_57 Start: 38737, Stop: 38330, Start Num: 79
Candidate Starts for QuinnKiro_57:
(Start: 79 @38737 has 28 MA's), (114, 38605), (124, 38548), (131, 38521),

Gene: R4_39 Start: 28926, Stop: 29360, Start Num: 69
Candidate Starts for R4_39:
(Start: 57 @28917 has 1 MA's), (Start: 69 @28926 has 36 MA's), (101, 28995), (110, 29040), (113, 29079), (130, 29169), (138, 29334),

Gene: RER2_42 Start: 32378, Stop: 31968, Start Num: 83
Candidate Starts for RER2_42:
(Start: 40 @32474 has 1 MA's), (Start: 83 @32378 has 37 MA's), (Start: 97 @32348 has 1 MA's), (106, 32312), (129, 32168), (131, 32159),

Gene: RGL3_43 Start: 33332, Stop: 32922, Start Num: 83
Candidate Starts for RGL3_43:
(Start: 83 @33332 has 37 MA's), (Start: 97 @33302 has 1 MA's), (122, 33155), (131, 33113),

Gene: Rachaly_59 Start: 39578, Stop: 39183, Start Num: 82
Candidate Starts for Rachaly_59:
(Start: 82 @39578 has 223 MA's), (123, 39392), (131, 39362), (134, 39320),

Gene: Rajelicia_56 Start: 40364, Stop: 40035, Start Num: 108
Candidate Starts for Rajelicia_56:
(Start: 82 @40445 has 223 MA's), (Start: 108 @40364 has 2 MA's), (127, 40241),

Gene: Rana_39 Start: 28430, Stop: 28861, Start Num: 55
Candidate Starts for Rana_39:
(14, 28217), (30, 28343), (Start: 55 @28430 has 47 MA's), (Start: 63 @28445 has 2 MA's), (110, 28556), (125, 28664), (127, 28670),

Gene: Rasputin_49 Start: 35476, Stop: 35066, Start Num: 83
Candidate Starts for Rasputin_49:
(Start: 40 @35572 has 1 MA's), (Start: 83 @35476 has 37 MA's), (Start: 97 @35446 has 1 MA's), (106, 35410), (129, 35266), (131, 35257),

Gene: Reba_63 Start: 38666, Stop: 38259, Start Num: 84
Candidate Starts for Reba_63:
(Start: 84 @38666 has 115 MA's), (Start: 97 @38639 has 1 MA's), (109, 38582), (124, 38477), (131, 38450),

Gene: Rebeuca_57 Start: 38649, Stop: 38236, Start Num: 80
Candidate Starts for Rebeuca_57:
(Start: 80 @38649 has 128 MA's), (114, 38511), (124, 38454), (131, 38427),

Gene: RedBear_39 Start: 28095, Stop: 28529, Start Num: 55
Candidate Starts for RedBear_39:
(14, 27885), (18, 27924), (39, 28041), (48, 28083), (Start: 55 @28095 has 47 MA's), (Start: 63 @28110 has 2 MA's), (110, 28224), (125, 28332), (127, 28338),

Gene: RedRock_62 Start: 40165, Stop: 39773, Start Num: 84
Candidate Starts for RedRock_62:
(Start: 61 @40195 has 1 MA's), (Start: 84 @40165 has 115 MA's), (Start: 97 @40138 has 1 MA's), (131, 39952), (134, 39910),

Gene: Refuge_58 Start: 40421, Stop: 40029, Start Num: 82
Candidate Starts for Refuge_58:
(28, 40565), (35, 40544), (Start: 82 @40421 has 223 MA's), (120, 40259), (123, 40235), (131, 40202),

Gene: Relief_55 Start: 38365, Stop: 37952, Start Num: 80
Candidate Starts for Relief_55:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: Remus_67 Start: 38495, Stop: 38115, Start Num: 91
Candidate Starts for Remus_67:
(35, 38636), (Start: 91 @38495 has 20 MA's), (120, 38348), (131, 38291), (134, 38249),

Gene: ResDef_58 Start: 38737, Stop: 38330, Start Num: 79
Candidate Starts for ResDef_58:
(Start: 79 @38737 has 28 MA's), (114, 38605), (124, 38548), (131, 38521),

Gene: Retro23_61 Start: 39533, Stop: 39129, Start Num: 72
Candidate Starts for Retro23_61:
(Start: 40 @39608 has 1 MA's), (Start: 72 @39533 has 58 MA's), (131, 39308), (134, 39266),

Gene: RexFury_48 Start: 35537, Stop: 35127, Start Num: 83
Candidate Starts for RexFury_48:
(Start: 40 @35633 has 1 MA's), (Start: 83 @35537 has 37 MA's), (Start: 97 @35507 has 1 MA's), (106, 35471), (129, 35327), (131, 35318),

Gene: Rhodalysa_49 Start: 35506, Stop: 35096, Start Num: 83
Candidate Starts for Rhodalysa_49:
(Start: 40 @35602 has 1 MA's), (Start: 83 @35506 has 37 MA's), (Start: 97 @35476 has 1 MA's), (106, 35440), (129, 35296), (131, 35287),

Gene: RhynO_57 Start: 38451, Stop: 38038, Start Num: 80
Candidate Starts for RhynO_57:
(Start: 80 @38451 has 128 MA's), (114, 38313), (124, 38256), (131, 38229),

Gene: Rhynn_54 Start: 38612, Stop: 38097, Start Num: 82
Candidate Starts for Rhynn_54:
(Start: 82 @38612 has 223 MA's), (Start: 108 @38531 has 2 MA's), (114, 38477), (125, 38414), (127, 38408), (131, 38393), (139, 38165), (140, 38147),

Gene: RidgeCB_55 Start: 39712, Stop: 39197, Start Num: 82
Candidate Starts for RidgeCB_55:
(Start: 82 @39712 has 223 MA's), (Start: 108 @39631 has 2 MA's), (114, 39577), (125, 39514), (127, 39508), (131, 39493), (139, 39265), (140, 39247),

Gene: Rifter_62 Start: 37546, Stop: 37157, Start Num: 89
Candidate Starts for Rifter_62:
(Start: 89 @37546 has 69 MA's), (123, 37366), (131, 37336), (134, 37294),

Gene: Ringer_56 Start: 40762, Stop: 40352, Start Num: 82
Candidate Starts for Ringer_56:
(Start: 82 @40762 has 223 MA's), (Start: 108 @40681 has 2 MA's), (127, 40558),

Gene: Roary_61 Start: 38422, Stop: 38009, Start Num: 84
Candidate Starts for Roary_61:
(Start: 84 @38422 has 115 MA's), (Start: 97 @38395 has 1 MA's), (121, 38257), (122, 38248),

Gene: RockieBear_56 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for RockieBear_56:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Rohr_57 Start: 39657, Stop: 39247, Start Num: 82
Candidate Starts for Rohr_57:
(Start: 82 @39657 has 223 MA's), (Start: 108 @39576 has 2 MA's), (127, 39453),

Gene: Roksolana_63 Start: 38380, Stop: 37991, Start Num: 89
Candidate Starts for Roksolana_63:
(Start: 89 @38380 has 69 MA's), (123, 38200), (131, 38170), (134, 38128),

Gene: Romero_59 Start: 31209, Stop: 30820, Start Num: 71
Candidate Starts for Romero_59:
(Start: 71 @31209 has 12 MA's), (98, 31164), (107, 31125), (114, 31059), (118, 31041), (122, 31017), (127, 30990),

Gene: Roosevelt_55 Start: 38370, Stop: 37957, Start Num: 80
Candidate Starts for Roosevelt_55:
(Start: 80 @38370 has 128 MA's), (116, 38223), (122, 38190), (123, 38178), (131, 38148),

Gene: Rosalind_65 Start: 38647, Stop: 38267, Start Num: 91
Candidate Starts for Rosalind_65:
(Start: 91 @38647 has 20 MA's), (120, 38500), (131, 38443), (134, 38401),

Gene: RosePharie_59 Start: 31033, Stop: 30644, Start Num: 71
Candidate Starts for RosePharie_59:
(Start: 71 @31033 has 12 MA's), (106, 30952), (118, 30865), (122, 30841), (127, 30814),

Gene: Rubeus_56 Start: 37595, Stop: 37080, Start Num: 82
Candidate Starts for Rubeus_56:
(Start: 82 @37595 has 223 MA's), (Start: 108 @37514 has 2 MA's), (114, 37460), (125, 37397), (127, 37391), (131, 37376), (139, 37148), (140, 37130),

Gene: Rufus_57 Start: 39200, Stop: 38685, Start Num: 82

Candidate Starts for Rufus_57:
(Start: 82 @39200 has 223 MA's), (Start: 108 @39119 has 2 MA's), (114, 39065), (125, 39002), (127, 38996), (131, 38981), (139, 38753), (140, 38735),

Gene: Ruin_56 Start: 38361, Stop: 37948, Start Num: 80
Candidate Starts for Ruin_56:
(Start: 80 @38361 has 128 MA's), (116, 38214), (123, 38169), (131, 38139),

Gene: Rummer_62 Start: 39149, Stop: 38742, Start Num: 84
Candidate Starts for Rummer_62:
(Start: 84 @39149 has 115 MA's), (Start: 92 @39134 has 1 MA's), (Start: 97 @39122 has 1 MA's), (109, 39065), (124, 38960), (131, 38933),

Gene: RunningOnE_37 Start: 18047, Stop: 17676, Start Num: 95
Candidate Starts for RunningOnE_37:
(45, 18152), (62, 18104), (Start: 95 @18047 has 1 MA's), (112, 17963), (127, 17870), (137, 17720),

Gene: Ruotula_58 Start: 41618, Stop: 41202, Start Num: 82
Candidate Starts for Ruotula_58:
(21, 41816), (24, 41804), (Start: 82 @41618 has 223 MA's), (120, 41453), (127, 41414), (131, 41399),

Gene: Rusticus_39 Start: 27909, Stop: 28343, Start Num: 55
Candidate Starts for Rusticus_39:
(Start: 55 @27909 has 47 MA's), (110, 28038), (125, 28146), (127, 28152),

Gene: Rutherferd_57 Start: 39831, Stop: 39316, Start Num: 82
Candidate Starts for Rutherferd_57:
(Start: 82 @39831 has 223 MA's), (Start: 108 @39750 has 2 MA's), (114, 39696), (125, 39633), (127, 39627), (131, 39612), (139, 39384), (140, 39366),

Gene: RyeScarlet_60 Start: 39143, Stop: 38760, Start Num: 88
Candidate Starts for RyeScarlet_60:
(Start: 64 @39173 has 3 MA's), (65, 39170), (Start: 88 @39143 has 18 MA's), (120, 38987), (123, 38963), (131, 38933), (134, 38891),

Gene: STLscum_58 Start: 40467, Stop: 39952, Start Num: 82
Candidate Starts for STLscum_58:
(17, 40701), (Start: 82 @40467 has 223 MA's), (Start: 108 @40386 has 2 MA's), (114, 40332), (125, 40269), (127, 40263), (131, 40248), (139, 40020), (140, 40002),

Gene: Sabertooth_56 Start: 38370, Stop: 37957, Start Num: 80
Candidate Starts for Sabertooth_56:
(Start: 80 @38370 has 128 MA's), (116, 38223), (122, 38190), (123, 38178), (131, 38148),

Gene: Sabia_63 Start: 39130, Stop: 38723, Start Num: 84
Candidate Starts for Sabia_63:
(Start: 84 @39130 has 115 MA's), (Start: 92 @39115 has 1 MA's), (Start: 97 @39103 has 1 MA's), (109, 39046), (124, 38941), (131, 38914),

Gene: Sabinator_62 Start: 39120, Stop: 38713, Start Num: 84
Candidate Starts for Sabinator_62:
(Start: 84 @39120 has 115 MA's), (Start: 92 @39105 has 1 MA's), (Start: 97 @39093 has 1 MA's), (109, 39036), (124, 38931), (131, 38904),

Gene: Sachima_60 Start: 39071, Stop: 38670, Start Num: 64
Candidate Starts for Sachima_60:
(Start: 64 @39071 has 3 MA's), (120, 38897), (123, 38873), (131, 38843), (134, 38801),

Gene: Sagefire_58 Start: 40408, Stop: 39893, Start Num: 82
Candidate Starts for Sagefire_58:
(Start: 82 @40408 has 223 MA's), (Start: 108 @40327 has 2 MA's), (114, 40273), (125, 40210), (127, 40204), (131, 40189), (139, 39961), (140, 39943),

Gene: Saintus_55 Start: 35090, Stop: 34677, Start Num: 84
Candidate Starts for Saintus_55:
(Start: 84 @35090 has 115 MA's), (Start: 97 @35063 has 1 MA's), (121, 34925), (122, 34916),

Gene: Sanya_54 Start: 39451, Stop: 38936, Start Num: 82
Candidate Starts for Sanya_54:
(Start: 82 @39451 has 223 MA's), (Start: 108 @39370 has 2 MA's), (114, 39316), (125, 39253), (127, 39247), (131, 39232), (139, 39004), (140, 38986),

Gene: SarFire_53 Start: 38723, Stop: 38181, Start Num: 82
Candidate Starts for SarFire_53:
(Start: 82 @38723 has 223 MA's), (Start: 108 @38642 has 2 MA's), (114, 38588), (125, 38525), (127, 38519), (131, 38504), (139, 38276), (140, 38258),

Gene: SarahRose_38 Start: 27920, Stop: 28354, Start Num: 55
Candidate Starts for SarahRose_38:
(Start: 55 @27920 has 47 MA's), (Start: 63 @27935 has 2 MA's), (110, 28049), (127, 28163),

Gene: Saskia_61 Start: 38424, Stop: 38035, Start Num: 89
Candidate Starts for Saskia_61:
(Start: 89 @38424 has 69 MA's), (131, 38214), (134, 38172),

Gene: Scamp_56 Start: 38370, Stop: 37957, Start Num: 80
Candidate Starts for Scamp_56:
(Start: 80 @38370 has 128 MA's), (116, 38223), (122, 38190), (123, 38178), (131, 38148),

Gene: Scherzo_60 Start: 39357, Stop: 38974, Start Num: 88
Candidate Starts for Scherzo_60:
(Start: 64 @39387 has 3 MA's), (Start: 88 @39357 has 18 MA's), (120, 39201), (123, 39177), (131, 39147), (134, 39105),

Gene: Scorpia_59 Start: 38810, Stop: 38400, Start Num: 87
Candidate Starts for Scorpia_59:
(Start: 87 @38810 has 62 MA's), (115, 38675), (122, 38639), (131, 38597),

Gene: Scout_59 Start: 37926, Stop: 37519, Start Num: 79
Candidate Starts for Scout_59:
(Start: 79 @37926 has 28 MA's), (114, 37794), (124, 37737), (131, 37710),

Gene: Scowl_56 Start: 39552, Stop: 39010, Start Num: 82
Candidate Starts for Scowl_56:
(Start: 82 @39552 has 223 MA's), (Start: 108 @39471 has 2 MA's), (114, 39417), (125, 39354), (127, 39348), (131, 39333), (139, 39105), (140, 39087),

Gene: Seabiscuit_58 Start: 39337, Stop: 38822, Start Num: 82
Candidate Starts for Seabiscuit_58:
(12, 39607), (Start: 82 @39337 has 223 MA's), (Start: 108 @39256 has 2 MA's), (114, 39202), (125, 39139), (127, 39133), (131, 39118), (139, 38890), (140, 38872),

Gene: Seanderson_57 Start: 40932, Stop: 40417, Start Num: 82
Candidate Starts for Seanderson_57:
(15, 41190), (22, 41121), (Start: 82 @40932 has 223 MA's), (Start: 108 @40851 has 2 MA's), (114, 40797), (125, 40734), (127, 40728), (131, 40713), (139, 40485), (140, 40467),

Gene: SemperFi_61 Start: 39556, Stop: 39152, Start Num: 72
Candidate Starts for SemperFi_61:
(Start: 72 @39556 has 58 MA's), (123, 39361), (131, 39331), (134, 39289),

Gene: SenorClean_56 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for SenorClean_56:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Severus_55 Start: 37508, Stop: 37089, Start Num: 76
Candidate Starts for Severus_55:
(Start: 76 @37508 has 10 MA's), (Start: 92 @37481 has 1 MA's), (114, 37364), (131, 37280),

Gene: Sham4_60 Start: 38424, Stop: 38035, Start Num: 89
Candidate Starts for Sham4_60:
(Start: 89 @38424 has 69 MA's), (131, 38214), (134, 38172),

Gene: ShayRa_67 Start: 38676, Stop: 38296, Start Num: 91
Candidate Starts for ShayRa_67:
(Start: 91 @38676 has 20 MA's), (120, 38529), (131, 38472), (134, 38430),

Gene: SheaKeira_58 Start: 38784, Stop: 38395, Start Num: 78
Candidate Starts for SheaKeira_58:
(41, 38865), (Start: 78 @38784 has 4 MA's), (120, 38622), (123, 38598), (131, 38568), (134, 38526),

Gene: Sheen_58 Start: 41062, Stop: 40658, Start Num: 87
Candidate Starts for Sheen_58:
(62, 41101), (Start: 84 @41065 has 115 MA's), (Start: 87 @41062 has 62 MA's), (Start: 92 @41050 has 1 MA's), (Start: 95 @41044 has 1 MA's), (Start: 97 @41038 has 1 MA's), (114, 40933), (124, 40876), (131, 40849),

Gene: SheldonCooper_57 Start: 38772, Stop: 38359, Start Num: 80
Candidate Starts for SheldonCooper_57:
(Start: 80 @38772 has 128 MA's), (116, 38625), (123, 38580), (131, 38550),

Gene: ShortQueendom_51 Start: 36561, Stop: 36046, Start Num: 82
Candidate Starts for ShortQueendom_51:
(Start: 82 @36561 has 223 MA's), (Start: 108 @36480 has 2 MA's), (114, 36426), (125, 36363), (127, 36357), (131, 36342), (139, 36114), (140, 36096),

Gene: Shuman_49 Start: 35460, Stop: 35050, Start Num: 83
Candidate Starts for Shuman_49:

(Start: 40 @35556 has 1 MA's), (Start: 83 @35460 has 37 MA's), (Start: 97 @35430 has 1 MA's), (106, 35394), (129, 35250), (131, 35241),

Gene: Shygu2_55 Start: 38382, Stop: 37957, Start Num: 73
Candidate Starts for Shygu2_55:
(56, 38409), (Start: 73 @38382 has 1 MA's), (Start: 87 @38361 has 62 MA's), (114, 38232), (122, 38190), (131, 38148),

Gene: SkiPole_60 Start: 40137, Stop: 39622, Start Num: 82
Candidate Starts for SkiPole_60:
(12, 40407), (17, 40371), (Start: 82 @40137 has 223 MA's), (Start: 108 @40056 has 2 MA's), (114, 40002), (125, 39939), (127, 39933), (131, 39918), (139, 39690), (140, 39672),

Gene: Skipitt_55 Start: 38362, Stop: 37949, Start Num: 80
Candidate Starts for Skipitt_55:
(Start: 80 @38362 has 128 MA's), (116, 38215), (122, 38182), (123, 38170), (131, 38140),

Gene: Sknot_60 Start: 38986, Stop: 38582, Start Num: 72
Candidate Starts for Sknot_60:
(52, 39019), (Start: 67 @38992 has 2 MA's), (Start: 72 @38986 has 58 MA's), (123, 38791), (131, 38761),

Gene: Slagathor_58 Start: 40564, Stop: 40154, Start Num: 82
Candidate Starts for Slagathor_58:
(Start: 82 @40564 has 223 MA's), (Start: 108 @40483 has 2 MA's), (127, 40360),

Gene: Smairt_58 Start: 40827, Stop: 40282, Start Num: 60
Candidate Starts for Smairt_58:
(Start: 60 @40827 has 2 MA's), (Start: 66 @40818 has 2 MA's), (117, 40650), (120, 40632), (125, 40599), (127, 40593), (131, 40578), (139, 40350), (140, 40332),

Gene: Smeadley_60 Start: 38283, Stop: 37870, Start Num: 84
Candidate Starts for Smeadley_60:
(Start: 84 @38283 has 115 MA's), (Start: 97 @38256 has 1 MA's), (121, 38118), (122, 38109),

Gene: Smeagan_63 Start: 39846, Stop: 39445, Start Num: 72
Candidate Starts for Smeagan_63:
(Start: 49 @39891 has 1 MA's), (Start: 72 @39846 has 58 MA's), (123, 39654), (131, 39624), (134, 39582),

Gene: Smeagol_58 Start: 40791, Stop: 40276, Start Num: 82
Candidate Starts for Smeagol_58:
(33, 40923), (Start: 82 @40791 has 223 MA's), (Start: 108 @40710 has 2 MA's), (114, 40656), (125, 40593), (127, 40587), (131, 40572), (139, 40344), (140, 40326),

Gene: SmellyB_61 Start: 37935, Stop: 37546, Start Num: 89
Candidate Starts for SmellyB_61:
(Start: 89 @37935 has 69 MA's), (123, 37755), (131, 37725), (134, 37683),

Gene: SnapTap_60 Start: 39367, Stop: 38963, Start Num: 72
Candidate Starts for SnapTap_60:
(Start: 72 @39367 has 58 MA's), (123, 39172), (131, 39142), (134, 39100),

Gene: Snape_60 Start: 38416, Stop: 38027, Start Num: 89
Candidate Starts for Snape_60:
(Start: 89 @38416 has 69 MA's), (131, 38206), (134, 38164),

Gene: Snazzy_55 Start: 39170, Stop: 38655, Start Num: 82
Candidate Starts for Snazzy_55:
(Start: 82 @39170 has 223 MA's), (Start: 108 @39089 has 2 MA's), (114, 39035), (125, 38972), (127, 38966), (131, 38951), (139, 38723), (140, 38705),

Gene: Snickers_63 Start: 39095, Stop: 38688, Start Num: 84
Candidate Starts for Snickers_63:
(Start: 84 @39095 has 115 MA's), (Start: 92 @39080 has 1 MA's), (Start: 97 @39068 has 1 MA's), (109, 39011), (124, 38906), (131, 38879),

Gene: Snorlax_38 Start: 27924, Stop: 28358, Start Num: 55
Candidate Starts for Snorlax_38:
(Start: 55 @27924 has 47 MA's), (Start: 63 @27939 has 2 MA's), (110, 28053), (127, 28167),

Gene: SoYo_63 Start: 39033, Stop: 38626, Start Num: 84
Candidate Starts for SoYo_63:
(Start: 84 @39033 has 115 MA's), (Start: 92 @39018 has 1 MA's), (Start: 97 @39006 has 1 MA's), (109, 38949), (124, 38844), (131, 38817),

Gene: SoilDragon_63 Start: 38569, Stop: 38162, Start Num: 84
Candidate Starts for SoilDragon_63:
(Start: 84 @38569 has 115 MA's), (Start: 92 @38554 has 1 MA's), (Start: 97 @38542 has 1 MA's), (109, 38485), (124, 38380), (131, 38353),

Gene: Solon_54 Start: 39048, Stop: 38533, Start Num: 82
Candidate Starts for Solon_54:
(Start: 82 @39048 has 223 MA's), (Start: 108 @38967 has 2 MA's), (114, 38913), (125, 38850), (127, 38844), (131, 38829), (139, 38601), (140, 38583),

Gene: SororFago_61 Start: 40117, Stop: 39734, Start Num: 81
Candidate Starts for SororFago_61:
(6, 40477), (31, 40255), (37, 40234), (Start: 81 @40117 has 2 MA's), (114, 39991), (120, 39961), (123, 39937), (131, 39907),

Gene: Sorpresa_54 Start: 39163, Stop: 38648, Start Num: 82
Candidate Starts for Sorpresa_54:
(Start: 82 @39163 has 223 MA's), (Start: 108 @39082 has 2 MA's), (114, 39028), (125, 38965), (127, 38959), (131, 38944), (139, 38716), (140, 38698),

Gene: Soshari_65 Start: 39145, Stop: 38738, Start Num: 84
Candidate Starts for Soshari_65:
(Start: 84 @39145 has 115 MA's), (Start: 92 @39130 has 1 MA's), (Start: 97 @39118 has 1 MA's), (109, 39061), (124, 38956), (131, 38929),

Gene: Soups_67 Start: 38939, Stop: 38559, Start Num: 91
Candidate Starts for Soups_67:
(Start: 91 @38939 has 20 MA's), (120, 38792), (131, 38735), (134, 38693),

Gene: South40_38 Start: 28095, Stop: 28529, Start Num: 55

Candidate Starts for South40_38:
(14, 27885), (18, 27924), (39, 28041), (48, 28083), (Start: 55 @28095 has 47 MA's), (Start: 63 @28110 has 2 MA's), (110, 28224), (125, 28332), (127, 28338),

Gene: Sparxx_57 Start: 38363, Stop: 37950, Start Num: 80
Candidate Starts for Sparxx_57:
(Start: 80 @38363 has 128 MA's), (116, 38216), (122, 38183), (123, 38171), (131, 38141),

Gene: Speedwell_44 Start: 30853, Stop: 31290, Start Num: 53
Candidate Starts for Speedwell_44:
(Start: 53 @30853 has 14 MA's), (99, 30937), (110, 30985), (113, 31024), (125, 31093), (127, 31099), (128, 31102),

Gene: Spike509_63 Start: 39146, Stop: 38739, Start Num: 84
Candidate Starts for Spike509_63:
(Start: 84 @39146 has 115 MA's), (Start: 92 @39131 has 1 MA's), (Start: 97 @39119 has 1 MA's), (109, 39062), (122, 38972), (124, 38957), (131, 38930),

Gene: SpikeBT_55 Start: 39240, Stop: 38830, Start Num: 82
Candidate Starts for SpikeBT_55:
(Start: 82 @39240 has 223 MA's), (Start: 108 @39159 has 2 MA's), (127, 39036),

Gene: Spino_55 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Spino_55:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Spouty_60 Start: 39137, Stop: 38754, Start Num: 87
Candidate Starts for Spouty_60:
(Start: 69 @39164 has 36 MA's), (Start: 87 @39137 has 62 MA's), (120, 38981), (123, 38957), (131, 38927), (134, 38885),

Gene: SqueakyClean_38 Start: 28704, Stop: 29123, Start Num: 77
Candidate Starts for SqueakyClean_38:
(59, 28680), (Start: 69 @28689 has 36 MA's), (Start: 77 @28704 has 6 MA's), (101, 28758), (110, 28803), (113, 28842), (132, 28938), (138, 29100),

Gene: Squee_56 Start: 39751, Stop: 39236, Start Num: 82
Candidate Starts for Squee_56:
(Start: 82 @39751 has 223 MA's), (Start: 108 @39670 has 2 MA's), (114, 39616), (125, 39553), (127, 39547), (131, 39532), (139, 39304), (140, 39286),

Gene: StCroix_48 Start: 35519, Stop: 35109, Start Num: 83
Candidate Starts for StCroix_48:
(Start: 40 @35615 has 1 MA's), (Start: 83 @35519 has 37 MA's), (Start: 97 @35489 has 1 MA's), (106, 35453), (129, 35309), (131, 35300),

Gene: Stagni_63 Start: 39124, Stop: 38717, Start Num: 84
Candidate Starts for Stagni_63:
(Start: 84 @39124 has 115 MA's), (Start: 92 @39109 has 1 MA's), (Start: 97 @39097 has 1 MA's), (109, 39040), (124, 38935), (131, 38908),

Gene: StarStuff_62 Start: 39120, Stop: 38731, Start Num: 82
Candidate Starts for StarStuff_62:

(28, 39264), (38, 39231), (Start: 82 @39120 has 223 MA's), (123, 38940), (131, 38910), (134, 38868),

Gene: Stasia_55 Start: 38237, Stop: 37833, Start Num: 86
Candidate Starts for Stasia_55:
(Start: 86 @38237 has 21 MA's), (114, 38108), (122, 38066), (131, 38024),

Gene: SteMason_55 Start: 38365, Stop: 37952, Start Num: 80
Candidate Starts for SteMason_55:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: Stella_62 Start: 31845, Stop: 31456, Start Num: 69
Candidate Starts for Stella_62:
(Start: 69 @31845 has 36 MA's), (118, 31677), (122, 31653), (127, 31626),

Gene: Stephig9_60 Start: 38391, Stop: 37978, Start Num: 84
Candidate Starts for Stephig9_60:
(52, 38445), (Start: 84 @38391 has 115 MA's), (121, 38226), (122, 38217),

Gene: StewieG_52 Start: 36568, Stop: 36053, Start Num: 82
Candidate Starts for StewieG_52:
(Start: 82 @36568 has 223 MA's), (Start: 108 @36487 has 2 MA's), (114, 36433), (125, 36370), (127, 36364), (131, 36349), (139, 36121), (140, 36103),

Gene: Stink_54 Start: 38053, Stop: 37649, Start Num: 86
Candidate Starts for Stink_54:
(Start: 86 @38053 has 21 MA's), (114, 37924), (123, 37870), (131, 37840),

Gene: StrongArm_54 Start: 40247, Stop: 39732, Start Num: 82
Candidate Starts for StrongArm_54:
(12, 40517), (17, 40481), (Start: 82 @40247 has 223 MA's), (Start: 108 @40166 has 2 MA's), (114, 40112), (125, 40049), (127, 40043), (131, 40028), (139, 39800), (140, 39782),

Gene: Strosahl_67 Start: 38495, Stop: 38115, Start Num: 91
Candidate Starts for Strosahl_67:
(35, 38636), (Start: 91 @38495 has 20 MA's), (120, 38348), (131, 38291), (134, 38249),

Gene: Success_30 Start: 19188, Stop: 18790, Start Num: 77
Candidate Starts for Success_30:
(74, 19191), (Start: 77 @19188 has 6 MA's), (109, 19104), (114, 19050), (125, 18987), (127, 18981),

Gene: Sudan_39 Start: 29432, Stop: 29869, Start Num: 53
Candidate Starts for Sudan_39:
(Start: 53 @29432 has 14 MA's), (99, 29516), (110, 29564), (113, 29603), (125, 29672), (127, 29678), (128, 29681),

Gene: Sujidade_39 Start: 28652, Stop: 29086, Start Num: 54
Candidate Starts for Sujidade_39:
(Start: 43 @28625 has 1 MA's), (46, 28634), (Start: 54 @28652 has 8 MA's), (Start: 63 @28667 has 2 MA's), (105, 28754), (110, 28781), (125, 28889), (127, 28895),

Gene: Sultana_56 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for Sultana_56:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: Sumter_52 Start: 39707, Stop: 39192, Start Num: 82
Candidate Starts for Sumter_52:
(Start: 82 @39707 has 223 MA's), (Start: 108 @39626 has 2 MA's), (114, 39572), (125, 39509), (127, 39503), (131, 39488), (139, 39260), (140, 39242),

Gene: Sunhee_62 Start: 38558, Stop: 38175, Start Num: 84
Candidate Starts for Sunhee_62:
(Start: 84 @38558 has 115 MA's), (120, 38402), (123, 38378), (131, 38348), (134, 38306),

Gene: SunkenRoot_39 Start: 30043, Stop: 30480, Start Num: 53
Candidate Starts for SunkenRoot_39:
(Start: 53 @30043 has 14 MA's), (99, 30127), (110, 30175), (113, 30214), (125, 30283), (127, 30289), (128, 30292),

Gene: SunsetPointe_38 Start: 27542, Stop: 27973, Start Num: 55
Candidate Starts for SunsetPointe_38:
(Start: 55 @27542 has 47 MA's), (Start: 83 @27587 has 37 MA's), (110, 27668), (125, 27776), (127, 27782),

Gene: Sunshine924_57 Start: 38845, Stop: 38330, Start Num: 82
Candidate Starts for Sunshine924_57:
(Start: 82 @38845 has 223 MA's), (Start: 108 @38764 has 2 MA's), (114, 38710), (125, 38647), (127, 38641), (131, 38626), (139, 38398), (140, 38380),

Gene: SuperAwesome_61 Start: 37940, Stop: 37551, Start Num: 89
Candidate Starts for SuperAwesome_61:
(Start: 89 @37940 has 69 MA's), (123, 37760), (131, 37730), (134, 37688),

Gene: Superchunk_58 Start: 37796, Stop: 37404, Start Num: 84
Candidate Starts for Superchunk_58:
(Start: 84 @37796 has 115 MA's), (123, 37613), (131, 37583), (134, 37541),

Gene: Superstar_42 Start: 29737, Stop: 30168, Start Num: 69
Candidate Starts for Superstar_42:
(Start: 69 @29737 has 36 MA's), (101, 29806), (110, 29851), (130, 29980), (138, 30145),

Gene: Swann_49 Start: 35504, Stop: 35094, Start Num: 83
Candidate Starts for Swann_49:
(Start: 40 @35600 has 1 MA's), (Start: 83 @35504 has 37 MA's), (Start: 97 @35474 has 1 MA's), (106, 35438), (129, 35294), (131, 35285),

Gene: SweetiePie_60 Start: 39499, Stop: 39095, Start Num: 72
Candidate Starts for SweetiePie_60:
(Start: 72 @39499 has 58 MA's), (123, 39304), (131, 39274), (134, 39232),

Gene: SwirlSquare_63 Start: 38718, Stop: 38326, Start Num: 84
Candidate Starts for SwirlSquare_63:
(Start: 84 @38718 has 115 MA's), (123, 38535), (131, 38505), (134, 38463),

Gene: Swirley_56 Start: 38866, Stop: 38456, Start Num: 87
Candidate Starts for Swirley_56:
(Start: 87 @38866 has 62 MA's), (115, 38731), (121, 38704), (122, 38695), (131, 38653),

Gene: SwissCheese_57 Start: 39364, Stop: 38849, Start Num: 82
Candidate Starts for SwissCheese_57:
(Start: 82 @39364 has 223 MA's), (Start: 108 @39283 has 2 MA's), (114, 39229), (125, 39166), (127, 39160), (131, 39145), (139, 38917), (140, 38899),

Gene: Switzerland_66 Start: 38815, Stop: 38435, Start Num: 91
Candidate Starts for Switzerland_66:
(Start: 91 @38815 has 20 MA's), (120, 38668), (131, 38611), (134, 38569),

Gene: Swole_57 Start: 38768, Stop: 38358, Start Num: 82
Candidate Starts for Swole_57:
(Start: 82 @38768 has 223 MA's), (102, 38711), (Start: 108 @38687 has 2 MA's), (127, 38564),

Gene: SydNat_57 Start: 39505, Stop: 39095, Start Num: 87
Candidate Starts for SydNat_57:
(Start: 87 @39505 has 62 MA's), (115, 39370), (121, 39343), (122, 39334), (131, 39292),

Gene: TNguyen7_60 Start: 38738, Stop: 38331, Start Num: 79
Candidate Starts for TNguyen7_60:
(Start: 79 @38738 has 28 MA's), (114, 38606), (124, 38549), (131, 38522),

Gene: TWAMP_49 Start: 35506, Stop: 35096, Start Num: 83
Candidate Starts for TWAMP_49:
(Start: 40 @35602 has 1 MA's), (Start: 83 @35506 has 37 MA's), (Start: 97 @35476 has 1 MA's), (106, 35440), (129, 35296), (131, 35287),

Gene: TagePhighter_40 Start: 27924, Stop: 28358, Start Num: 55
Candidate Starts for TagePhighter_40:
(Start: 55 @27924 has 47 MA's), (Start: 63 @27939 has 2 MA's), (110, 28053), (127, 28167),

Gene: Tailonex_52 Start: 39147, Stop: 38818, Start Num: 94
Candidate Starts for Tailonex_52:
(94, 39147), (98, 39132), (117, 39018), (127, 38961),

Gene: Takoda_49 Start: 35689, Stop: 35279, Start Num: 83
Candidate Starts for Takoda_49:
(Start: 40 @35785 has 1 MA's), (Start: 83 @35689 has 37 MA's), (Start: 97 @35659 has 1 MA's), (106, 35623), (129, 35479), (131, 35470),

Gene: Taquarus_56 Start: 38371, Stop: 37958, Start Num: 80
Candidate Starts for Taquarus_56:
(Start: 80 @38371 has 128 MA's), (116, 38224), (123, 38179), (131, 38149),

Gene: Target_56 Start: 37955, Stop: 37440, Start Num: 82
Candidate Starts for Target_56:
(12, 38225), (17, 38189), (Start: 82 @37955 has 223 MA's), (102, 37898), (Start: 108 @37874 has 2 MA's), (114, 37820), (125, 37757), (127, 37751), (131, 37736), (139, 37508), (140, 37490),

Gene: Tarynearal_52 Start: 38311, Stop: 37901, Start Num: 87
Candidate Starts for Tarynearal_52:
(Start: 87 @38311 has 62 MA's), (115, 38176), (121, 38149), (122, 38140), (131, 38098),

Gene: Tasp14_57 Start: 39750, Stop: 39208, Start Num: 82
Candidate Starts for Tasp14_57:
(12, 40020), (Start: 82 @39750 has 223 MA's), (Start: 108 @39669 has 2 MA's), (114, 39615), (125, 39552), (127, 39546), (131, 39531), (139, 39303), (140, 39285),

Gene: Taurus_64 Start: 39121, Stop: 38714, Start Num: 84
Candidate Starts for Taurus_64:
(Start: 84 @39121 has 115 MA's), (Start: 92 @39106 has 1 MA's), (Start: 97 @39094 has 1 MA's), (109, 39037), (124, 38932), (131, 38905),

Gene: Tefunt_40 Start: 28630, Stop: 29061, Start Num: 69
Candidate Starts for Tefunt_40:
(Start: 69 @28630 has 36 MA's), (99, 28696), (101, 28699), (103, 28714), (110, 28744), (113, 28783), (125, 28852), (138, 29038),

Gene: Temprado_63 Start: 38419, Stop: 38030, Start Num: 89
Candidate Starts for Temprado_63:
(Start: 89 @38419 has 69 MA's), (123, 38239), (131, 38209), (134, 38167),

Gene: Terrific_61 Start: 39340, Stop: 38936, Start Num: 72
Candidate Starts for Terrific_61:
(52, 39373), (Start: 67 @39346 has 2 MA's), (Start: 72 @39340 has 58 MA's), (123, 39145), (131, 39115),

Gene: Texage_57 Start: 38738, Stop: 38331, Start Num: 79
Candidate Starts for Texage_57:
(Start: 79 @38738 has 28 MA's), (114, 38606), (124, 38549), (131, 38522),

Gene: Thanksgivukkah_55 Start: 38366, Stop: 37953, Start Num: 80
Candidate Starts for Thanksgivukkah_55:
(Start: 80 @38366 has 128 MA's), (116, 38219), (122, 38186), (123, 38174), (131, 38144),

Gene: Theia_53 Start: 38985, Stop: 38575, Start Num: 87
Candidate Starts for Theia_53:
(Start: 87 @38985 has 62 MA's), (115, 38850), (121, 38823), (122, 38814), (131, 38772),

Gene: TheloniousMonk_56 Start: 41420, Stop: 40905, Start Num: 82
Candidate Starts for TheloniousMonk_56:
(Start: 82 @41420 has 223 MA's), (Start: 108 @41339 has 2 MA's), (114, 41285), (125, 41222), (127, 41216), (131, 41201), (139, 40973), (140, 40955),

Gene: Thestral_40 Start: 28823, Stop: 29257, Start Num: 69
Candidate Starts for Thestral_40:
(29, 28700), (42, 28757), (Start: 69 @28823 has 36 MA's), (101, 28892), (110, 28937), (113, 28976), (125, 29045), (138, 29234),

Gene: Thor_53 Start: 38081, Stop: 37539, Start Num: 82
Candidate Starts for Thor_53:
(Start: 82 @38081 has 223 MA's), (Start: 108 @38000 has 2 MA's), (114, 37946), (125, 37883), (127, 37877), (131, 37862), (139, 37634), (140, 37616),

Gene: Tiffany_62 Start: 39007, Stop: 38600, Start Num: 84
Candidate Starts for Tiffany_62:

(Start: 84 @39007 has 115 MA's), (Start: 92 @38992 has 1 MA's), (Start: 97 @38980 has 1 MA's), (109, 38923), (124, 38818), (131, 38791),

Gene: Tiger_53 Start: 38171, Stop: 37761, Start Num: 87
Candidate Starts for Tiger_53:
(Start: 87 @38171 has 62 MA's), (115, 38036), (121, 38009), (122, 38000), (131, 37958),

Gene: Timothy_60 Start: 38393, Stop: 38004, Start Num: 89
Candidate Starts for Timothy_60:
(Start: 89 @38393 has 69 MA's), (131, 38183), (134, 38141),

Gene: Timshel_55 Start: 40336, Stop: 39932, Start Num: 87
Candidate Starts for Timshel_55:
(Start: 84 @40339 has 115 MA's), (Start: 87 @40336 has 62 MA's), (Start: 92 @40324 has 1 MA's), (Start: 97 @40312 has 1 MA's), (114, 40207), (124, 40150), (131, 40123),

Gene: TinaBelcher_39 Start: 28770, Stop: 29204, Start Num: 69
Candidate Starts for TinaBelcher_39:
(29, 28647), (42, 28704), (Start: 69 @28770 has 36 MA's), (101, 28839), (110, 28884), (113, 28923), (125, 28992), (138, 29181),

Gene: TinaFeyge_55 Start: 38363, Stop: 37950, Start Num: 80
Candidate Starts for TinaFeyge_55:
(Start: 80 @38363 has 128 MA's), (116, 38216), (122, 38183), (123, 38171), (131, 38141),

Gene: TinyPebbles_62 Start: 39151, Stop: 38744, Start Num: 84
Candidate Starts for TinyPebbles_62:
(Start: 84 @39151 has 115 MA's), (Start: 92 @39136 has 1 MA's), (Start: 97 @39124 has 1 MA's), (109, 39067), (124, 38962), (131, 38935),

Gene: TinyTimmy_60 Start: 38442, Stop: 38053, Start Num: 89
Candidate Starts for TinyTimmy_60:
(1, 38871), (4, 38808), (28, 38586), (Start: 89 @38442 has 69 MA's), (131, 38232), (134, 38190),

Gene: Tinybot_55 Start: 38395, Stop: 37982, Start Num: 80
Candidate Starts for Tinybot_55:
(Start: 80 @38395 has 128 MA's), (116, 38248), (122, 38215), (123, 38203), (131, 38173),

Gene: TipsytheTRex_57 Start: 38759, Stop: 38370, Start Num: 87
Candidate Starts for TipsytheTRex_57:
(Start: 87 @38759 has 62 MA's), (120, 38603), (123, 38579), (131, 38549), (134, 38507),

Gene: TiroTheta9_56 Start: 38362, Stop: 37949, Start Num: 80
Candidate Starts for TiroTheta9_56:
(Start: 80 @38362 has 128 MA's), (116, 38215), (122, 38182), (123, 38170), (131, 38140),

Gene: Toaka_60 Start: 39067, Stop: 38666, Start Num: 67
Candidate Starts for Toaka_60:
(Start: 67 @39067 has 2 MA's), (Start: 95 @39031 has 1 MA's), (120, 38890), (123, 38866), (131, 38836), (134, 38794),

Gene: Todacoro_58 Start: 38737, Stop: 38330, Start Num: 79
Candidate Starts for Todacoro_58:

(Start: 79 @38737 has 28 MA's), (114, 38605), (124, 38548), (131, 38521),

Gene: Toma_38 Start: 28369, Stop: 28803, Start Num: 54
Candidate Starts for Toma_38:
(Start: 43 @28342 has 1 MA's), (46, 28351), (Start: 54 @28369 has 8 MA's), (Start: 63 @28384 has 2 MA's), (105, 28471), (110, 28498), (125, 28606), (127, 28612),

Gene: Tomathan_62 Start: 39167, Stop: 38778, Start Num: 82
Candidate Starts for Tomathan_62:
(28, 39311), (38, 39278), (Start: 82 @39167 has 223 MA's), (123, 38987), (131, 38957), (134, 38915),

Gene: ToneTone_59 Start: 37979, Stop: 37590, Start Num: 89
Candidate Starts for ToneTone_59:
(Start: 89 @37979 has 69 MA's), (123, 37799), (131, 37769), (134, 37727),

Gene: Topanga_54 Start: 38293, Stop: 37880, Start Num: 80
Candidate Starts for Topanga_54:
(Start: 80 @38293 has 128 MA's), (114, 38155), (124, 38098), (131, 38071),

Gene: Topgun_55 Start: 38934, Stop: 38419, Start Num: 82
Candidate Starts for Topgun_55:
(Start: 82 @38934 has 223 MA's), (Start: 108 @38853 has 2 MA's), (114, 38799), (125, 38736), (127, 38730), (131, 38715), (139, 38487), (140, 38469),

Gene: ToriToki_59 Start: 31212, Stop: 30823, Start Num: 71
Candidate Starts for ToriToki_59:
(Start: 71 @31212 has 12 MA's), (98, 31167), (107, 31128), (114, 31062), (118, 31044), (122, 31020), (127, 30993),

Gene: Tote_52 Start: 36035, Stop: 35625, Start Num: 82
Candidate Starts for Tote_52:
(Start: 82 @36035 has 223 MA's), (102, 35978), (Start: 108 @35954 has 2 MA's), (127, 35831),

Gene: Traft412_58 Start: 40325, Stop: 39810, Start Num: 82
Candidate Starts for Traft412_58:
(Start: 82 @40325 has 223 MA's), (Start: 108 @40244 has 2 MA's), (114, 40190), (125, 40127), (127, 40121), (131, 40106), (139, 39878), (140, 39860),

Gene: Treat_59 Start: 31153, Stop: 30764, Start Num: 71
Candidate Starts for Treat_59:
(Start: 71 @31153 has 12 MA's), (98, 31108), (107, 31069), (114, 31003), (118, 30985), (122, 30961), (127, 30934),

Gene: Treddle_56 Start: 39857, Stop: 39342, Start Num: 82
Candidate Starts for Treddle_56:
(Start: 82 @39857 has 223 MA's), (Start: 108 @39776 has 2 MA's), (114, 39722), (125, 39659), (127, 39653), (131, 39638), (139, 39410), (140, 39392),

Gene: Tripl3t_56 Start: 40715, Stop: 40200, Start Num: 82
Candidate Starts for Tripl3t_56:
(Start: 82 @40715 has 223 MA's), (Start: 108 @40634 has 2 MA's), (114, 40580), (125, 40517), (127, 40511), (131, 40496), (139, 40268), (140, 40250),

Gene: Tristan_58 Start: 40016, Stop: 39612, Start Num: 72
Candidate Starts for Tristan_58:
(Start: 43 @40082 has 1 MA's), (Start: 49 @40064 has 1 MA's), (51, 40058), (52, 40052), (Start: 72 @40016 has 58 MA's), (120, 39845), (122, 39833), (123, 39821), (131, 39791), (134, 39749),

Gene: Triste_38 Start: 27912, Stop: 28346, Start Num: 55
Candidate Starts for Triste_38:
(Start: 55 @27912 has 47 MA's), (Start: 63 @27927 has 2 MA's), (110, 28041), (127, 28155),

Gene: Triumph_40 Start: 28519, Stop: 28953, Start Num: 69
Candidate Starts for Triumph_40:
(36, 28423), (Start: 69 @28519 has 36 MA's), (101, 28588), (110, 28633), (113, 28672), (132, 28768), (138, 28930),

Gene: Trixie_58 Start: 39186, Stop: 38794, Start Num: 84
Candidate Starts for Trixie_58:
(65, 39210), (Start: 84 @39186 has 115 MA's), (123, 39003), (131, 38973), (134, 38931),

Gene: Trooper_61 Start: 39688, Stop: 39284, Start Num: 72
Candidate Starts for Trooper_61:
(Start: 72 @39688 has 58 MA's), (123, 39493), (131, 39463), (134, 39421),

Gene: Trouble_58 Start: 40588, Stop: 40073, Start Num: 82
Candidate Starts for Trouble_58:
(Start: 82 @40588 has 223 MA's), (Start: 108 @40507 has 2 MA's), (114, 40453), (125, 40390), (127, 40384), (131, 40369), (139, 40141), (140, 40123),

Gene: TroyPia_57 Start: 38366, Stop: 37953, Start Num: 80
Candidate Starts for TroyPia_57:
(Start: 80 @38366 has 128 MA's), (116, 38219), (122, 38186), (123, 38174), (131, 38144),

Gene: TrvxScott_38 Start: 28816, Stop: 29250, Start Num: 69
Candidate Starts for TrvxScott_38:
(29, 28693), (42, 28750), (Start: 69 @28816 has 36 MA's), (101, 28885), (110, 28930), (113, 28969), (125, 29038), (138, 29227),

Gene: TuanPN_37 Start: 27859, Stop: 28290, Start Num: 55
Candidate Starts for TuanPN_37:
(39, 27805), (48, 27847), (Start: 55 @27859 has 47 MA's), (Start: 63 @27874 has 2 MA's), (110, 27985), (127, 28099),

Gene: Tubs_60 Start: 39071, Stop: 38688, Start Num: 88
Candidate Starts for Tubs_60:
(Start: 88 @39071 has 18 MA's), (120, 38915), (122, 38903), (123, 38891), (131, 38861), (134, 38819),

Gene: Tucker_62 Start: 38148, Stop: 37759, Start Num: 89
Candidate Starts for Tucker_62:
(Start: 89 @38148 has 69 MA's), (Start: 97 @38124 has 1 MA's), (123, 37968), (131, 37938), (134, 37896),

Gene: Turbido_61 Start: 39580, Stop: 39179, Start Num: 72
Candidate Starts for Turbido_61:

(Start: 49 @39625 has 1 MA's), (Start: 72 @39580 has 58 MA's), (123, 39388), (131, 39358), (134, 39316),

Gene: Twigg_54 Start: 38514, Stop: 38104, Start Num: 87
Candidate Starts for Twigg_54:
(Start: 87 @38514 has 62 MA's), (115, 38379), (121, 38352), (122, 38343), (131, 38301),

Gene: Twister_55 Start: 38210, Stop: 37797, Start Num: 80
Candidate Starts for Twister_55:
(Start: 80 @38210 has 128 MA's), (114, 38072), (124, 38015), (131, 37988),

Gene: TwoPeat_57 Start: 39188, Stop: 38778, Start Num: 82
Candidate Starts for TwoPeat_57:
(Start: 82 @39188 has 223 MA's), (Start: 108 @39107 has 2 MA's), (127, 38984),

Gene: TygerBlood_56 Start: 38368, Stop: 37955, Start Num: 80
Candidate Starts for TygerBlood_56:
(Start: 80 @38368 has 128 MA's), (116, 38221), (122, 38188), (123, 38176), (131, 38146),

Gene: U2_55 Start: 40259, Stop: 39744, Start Num: 82
Candidate Starts for U2_55:
(Start: 82 @40259 has 223 MA's), (Start: 108 @40178 has 2 MA's), (114, 40124), (125, 40061), (127, 40055), (131, 40040), (139, 39812), (140, 39794),

Gene: UhSalsa_49 Start: 35448, Stop: 35038, Start Num: 83
Candidate Starts for UhSalsa_49:
(Start: 40 @35544 has 1 MA's), (Start: 83 @35448 has 37 MA's), (Start: 97 @35418 has 1 MA's), (106, 35382), (129, 35238), (131, 35229),

Gene: Ulysses_55 Start: 38045, Stop: 37632, Start Num: 80
Candidate Starts for Ulysses_55:
(Start: 80 @38045 has 128 MA's), (116, 37898), (122, 37865), (123, 37853), (131, 37823),

Gene: UnionJack_88 Start: 38315, Stop: 37905, Start Num: 87
Candidate Starts for UnionJack_88:
(Start: 87 @38315 has 62 MA's), (115, 38180), (121, 38153), (122, 38144), (131, 38102),

Gene: Unstoppable_38 Start: 27546, Stop: 27977, Start Num: 55
Candidate Starts for Unstoppable_38:
(Start: 55 @27546 has 47 MA's), (Start: 83 @27591 has 37 MA's), (110, 27672), (125, 27780), (127, 27786),

Gene: Updawg_61 Start: 39236, Stop: 38826, Start Num: 67
Candidate Starts for Updawg_61:
(52, 39263), (Start: 67 @39236 has 2 MA's), (Start: 72 @39230 has 58 MA's), (123, 39035), (131, 39005),

Gene: Urza_40 Start: 28393, Stop: 28833, Start Num: 55
Candidate Starts for Urza_40:
(27, 28282), (28, 28294), (Start: 55 @28393 has 47 MA's), (103, 28498), (110, 28528), (113, 28567), (127, 28642),

Gene: VA6_61 Start: 39466, Stop: 39074, Start Num: 84

Candidate Starts for VA6_61:
(Start: 84 @39466 has 115 MA's), (120, 39307), (123, 39283), (131, 39253), (134, 39211),

Gene: VC3_63 Start: 39554, Stop: 39165, Start Num: 82
Candidate Starts for VC3_63:
(28, 39698), (35, 39677), (Start: 82 @39554 has 223 MA's), (123, 39374), (131, 39344), (134, 39302),

Gene: Vanisoa_60 Start: 40172, Stop: 39786, Start Num: 89
Candidate Starts for Vanisoa_60:
(Start: 89 @40172 has 69 MA's), (120, 40013), (123, 39989), (131, 39959),

Gene: Vanseggelen_44 Start: 29086, Stop: 29523, Start Num: 53
Candidate Starts for Vanseggelen_44:
(Start: 53 @29086 has 14 MA's), (99, 29170), (110, 29218), (113, 29257), (125, 29326), (127, 29332), (128, 29335),

Gene: Verabelle_42 Start: 29495, Stop: 29932, Start Num: 53
Candidate Starts for Verabelle_42:
(Start: 53 @29495 has 14 MA's), (99, 29579), (110, 29627), (113, 29666), (125, 29735), (127, 29741), (128, 29744),

Gene: Veracruz_57 Start: 38737, Stop: 38330, Start Num: 79
Candidate Starts for Veracruz_57:
(Start: 79 @38737 has 28 MA's), (114, 38605), (124, 38548), (131, 38521),

Gene: Verse_39 Start: 30237, Stop: 30674, Start Num: 53
Candidate Starts for Verse_39:
(Start: 53 @30237 has 14 MA's), (99, 30321), (110, 30369), (113, 30408), (125, 30477), (127, 30483), (128, 30486),

Gene: VieEnRose_39 Start: 28317, Stop: 28757, Start Num: 55
Candidate Starts for VieEnRose_39:
(27, 28206), (28, 28218), (Start: 55 @28317 has 47 MA's), (103, 28422), (110, 28452), (113, 28491), (127, 28566),

Gene: Violet_54 Start: 40191, Stop: 39676, Start Num: 82
Candidate Starts for Violet_54:
(Start: 82 @40191 has 223 MA's), (Start: 108 @40110 has 2 MA's), (114, 40056), (125, 39993), (127, 39987), (131, 39972), (139, 39744), (140, 39726),

Gene: VohminGhazi_61 Start: 37936, Stop: 37547, Start Num: 89
Candidate Starts for VohminGhazi_61:
(Start: 89 @37936 has 69 MA's), (123, 37756), (131, 37726), (134, 37684),

Gene: WRightOn_62 Start: 30951, Stop: 30559, Start Num: 69
Candidate Starts for WRightOn_62:
(Start: 69 @30951 has 36 MA's), (106, 30867), (107, 30864), (114, 30798), (118, 30780), (122, 30756), (127, 30729),

Gene: Waits_67 Start: 38712, Stop: 38332, Start Num: 91
Candidate Starts for Waits_67:
(Start: 91 @38712 has 20 MA's), (120, 38565), (131, 38508), (134, 38466),

Gene: WalterMcMickey_55 Start: 38210, Stop: 37797, Start Num: 80
Candidate Starts for WalterMcMickey_55:
(Start: 80 @38210 has 128 MA's), (114, 38072), (124, 38015), (131, 37988),

Gene: Wander_56 Start: 38365, Stop: 37952, Start Num: 80
Candidate Starts for Wander_56:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: Warrior24_69 Start: 39146, Stop: 38766, Start Num: 91
Candidate Starts for Warrior24_69:
(Start: 91 @39146 has 20 MA's), (120, 38999), (131, 38942), (134, 38900),

Gene: Watermelon_56 Start: 39474, Stop: 39064, Start Num: 82
Candidate Starts for Watermelon_56:
(Start: 82 @39474 has 223 MA's), (Start: 108 @39393 has 2 MA's), (127, 39270),

Gene: WeiHuaDA_60 Start: 40003, Stop: 39599, Start Num: 72
Candidate Starts for WeiHuaDA_60:
(Start: 72 @40003 has 58 MA's), (123, 39808), (131, 39778), (134, 39736),

Gene: Werner_38 Start: 27922, Stop: 28356, Start Num: 55
Candidate Starts for Werner_38:
(Start: 55 @27922 has 47 MA's), (Start: 63 @27937 has 2 MA's), (110, 28051), (127, 28165),

Gene: Whabigail7_61 Start: 39610, Stop: 39164, Start Num: 49
Candidate Starts for Whabigail7_61:
(Start: 49 @39610 has 1 MA's), (Start: 72 @39565 has 58 MA's), (123, 39373), (131, 39343), (134, 39301),

Gene: Whatever_38 Start: 27922, Stop: 28356, Start Num: 55
Candidate Starts for Whatever_38:
(Start: 55 @27922 has 47 MA's), (Start: 63 @27937 has 2 MA's), (110, 28051), (127, 28165),

Gene: Wheeler_56 Start: 39350, Stop: 38835, Start Num: 82
Candidate Starts for Wheeler_56:
(Start: 82 @39350 has 223 MA's), (Start: 108 @39269 has 2 MA's), (114, 39215), (125, 39152), (127, 39146), (131, 39131), (139, 38903), (140, 38885),

Gene: WideWale_61 Start: 39230, Stop: 38826, Start Num: 72
Candidate Starts for WideWale_61:
(52, 39263), (Start: 67 @39236 has 2 MA's), (Start: 72 @39230 has 58 MA's), (123, 39035), (131, 39005),

Gene: Wiks_61 Start: 38050, Stop: 37661, Start Num: 89
Candidate Starts for Wiks_61:
(Start: 89 @38050 has 69 MA's), (123, 37870), (131, 37840), (134, 37798),

Gene: Wilbur_56 Start: 38365, Stop: 37952, Start Num: 80
Candidate Starts for Wilbur_56:
(Start: 80 @38365 has 128 MA's), (116, 38218), (122, 38185), (123, 38173), (131, 38143),

Gene: Wile_55 Start: 38343, Stop: 37939, Start Num: 86
Candidate Starts for Wile_55:

(Start: 86 @38343 has 21 MA's), (111, 38253), (114, 38214), (123, 38160), (131, 38130),

Gene: Wilkins_55 Start: 38864, Stop: 38349, Start Num: 82
Candidate Starts for Wilkins_55:
(Start: 82 @38864 has 223 MA's), (Start: 108 @38783 has 2 MA's), (114, 38729), (125, 38666), (127, 38660), (131, 38645), (139, 38417), (140, 38399),

Gene: Wizard007_56 Start: 38373, Stop: 37960, Start Num: 80
Candidate Starts for Wizard007_56:
(Start: 80 @38373 has 128 MA's), (116, 38226), (122, 38193), (123, 38181), (131, 38151),

Gene: Wooldri_65 Start: 39033, Stop: 38626, Start Num: 84
Candidate Starts for Wooldri_65:
(Start: 84 @39033 has 115 MA's), (Start: 92 @39018 has 1 MA's), (Start: 97 @39006 has 1 MA's), (109, 38949), (124, 38844), (131, 38817),

Gene: WunderPhul_62 Start: 38048, Stop: 37659, Start Num: 89
Candidate Starts for WunderPhul_62:
(Start: 89 @38048 has 69 MA's), (123, 37868), (131, 37838), (134, 37796),

Gene: Xena_54 Start: 38309, Stop: 37905, Start Num: 86
Candidate Starts for Xena_54:
(Start: 86 @38309 has 21 MA's), (111, 38219), (114, 38180), (123, 38126), (131, 38096),

Gene: XianYue_58 Start: 38726, Stop: 38322, Start Num: 72
Candidate Starts for XianYue_58:
(Start: 72 @38726 has 58 MA's), (123, 38531), (131, 38501), (134, 38459),

Gene: Yasdnil_38 Start: 27977, Stop: 28408, Start Num: 55
Candidate Starts for Yasdnil_38:
(39, 27923), (48, 27965), (Start: 55 @27977 has 47 MA's), (Start: 63 @27992 has 2 MA's), (110, 28103), (127, 28217),

Gene: Yecey3_61 Start: 38942, Stop: 38553, Start Num: 80
Candidate Starts for Yecey3_61:
(Start: 80 @38942 has 128 MA's), (120, 38780), (123, 38756), (131, 38726), (134, 38684),

Gene: YoSam321_56 Start: 38362, Stop: 37949, Start Num: 80
Candidate Starts for YoSam321_56:
(Start: 80 @38362 has 128 MA's), (116, 38215), (122, 38182), (123, 38170), (131, 38140),

Gene: Yogi_48 Start: 35573, Stop: 35067, Start Num: 40
Candidate Starts for Yogi_48:
(Start: 40 @35573 has 1 MA's), (Start: 83 @35477 has 37 MA's), (Start: 97 @35447 has 1 MA's), (106, 35411), (129, 35267), (131, 35258),

Gene: Yoncess_48 Start: 35260, Stop: 34850, Start Num: 83
Candidate Starts for Yoncess_48:
(Start: 40 @35356 has 1 MA's), (Start: 83 @35260 has 37 MA's), (Start: 97 @35230 has 1 MA's), (106, 35194), (129, 35050), (131, 35041),

Gene: Zainub_41 Start: 29159, Stop: 29593, Start Num: 69
Candidate Starts for Zainub_41:

(Start: 69 @29159 has 36 MA's), (101, 29228), (110, 29273), (138, 29570),

Gene: Zaka_62 Start: 38050, Stop: 37661, Start Num: 89
Candidate Starts for Zaka_62:
(Start: 89 @38050 has 69 MA's), (123, 37870), (131, 37840), (134, 37798),

Gene: ZamZam_39 Start: 29530, Stop: 29967, Start Num: 53
Candidate Starts for ZamZam_39:
(Start: 53 @29530 has 14 MA's), (99, 29614), (110, 29662), (113, 29701), (125, 29770), (127, 29776), (128, 29779),

Gene: Zeeculate_54 Start: 40230, Stop: 39688, Start Num: 82
Candidate Starts for Zeeculate_54:
(Start: 82 @40230 has 223 MA's), (100, 40188), (Start: 108 @40149 has 2 MA's), (114, 40095), (125, 40032), (127, 40026), (131, 40011), (139, 39783), (140, 39765),

Gene: Zeigle_58 Start: 30795, Stop: 30403, Start Num: 69
Candidate Starts for Zeigle_58:
(Start: 69 @30795 has 36 MA's), (106, 30711), (107, 30708), (118, 30624), (122, 30600), (127, 30573),

Gene: Zemlya_40 Start: 28485, Stop: 28904, Start Num: 63
Candidate Starts for Zemlya_40:
(Start: 43 @28443 has 1 MA's), (Start: 54 @28470 has 8 MA's), (Start: 63 @28485 has 2 MA's), (105, 28572), (110, 28599), (125, 28707), (127, 28713),

Gene: Zephyr_56 Start: 39230, Stop: 38715, Start Num: 82
Candidate Starts for Zephyr_56:
(Start: 82 @39230 has 223 MA's), (Start: 108 @39149 has 2 MA's), (114, 39095), (125, 39032), (127, 39026), (131, 39011), (139, 38783), (140, 38765),

Gene: Zetzy_62 Start: 38684, Stop: 38277, Start Num: 84
Candidate Starts for Zetzy_62:
(Start: 84 @38684 has 115 MA's), (Start: 92 @38669 has 1 MA's), (Start: 97 @38657 has 1 MA's), (109, 38600), (124, 38495), (131, 38468),

Gene: Zeuska_54 Start: 39841, Stop: 39326, Start Num: 82
Candidate Starts for Zeuska_54:
(Start: 82 @39841 has 223 MA's), (Start: 108 @39760 has 2 MA's), (114, 39706), (125, 39643), (127, 39637), (131, 39622), (139, 39394), (140, 39376),

Gene: Zimmer_57 Start: 40099, Stop: 39713, Start Num: 87
Candidate Starts for Zimmer_57:
(Start: 87 @40099 has 62 MA's), (120, 39943), (123, 39919), (131, 39886),

Gene: Zolita_56 Start: 39509, Stop: 39099, Start Num: 87
Candidate Starts for Zolita_56:
(Start: 87 @39509 has 62 MA's), (115, 39374), (121, 39347), (122, 39338), (131, 39296),

Gene: ZooBear_59 Start: 31216, Stop: 30827, Start Num: 71
Candidate Starts for ZooBear_59:
(Start: 71 @31216 has 12 MA's), (98, 31171), (107, 31132), (114, 31066), (118, 31048), (122, 31024), (127, 30997),

Gene: Zulu_63 Start: 38428, Stop: 38039, Start Num: 89
Candidate Starts for Zulu_63:
(Start: 89 @38428 has 69 MA's), (123, 38248), (131, 38218), (134, 38176),

Gene: phiHau3_40 Start: 28023, Stop: 28442, Start Num: 69
Candidate Starts for phiHau3_40:
(36, 27927), (Start: 69 @28023 has 36 MA's), (99, 28089), (101, 28092), (103, 28107), (110, 28137), (113, 28176), (125, 28245), (127, 28251), (128, 28254), (136, 28377),