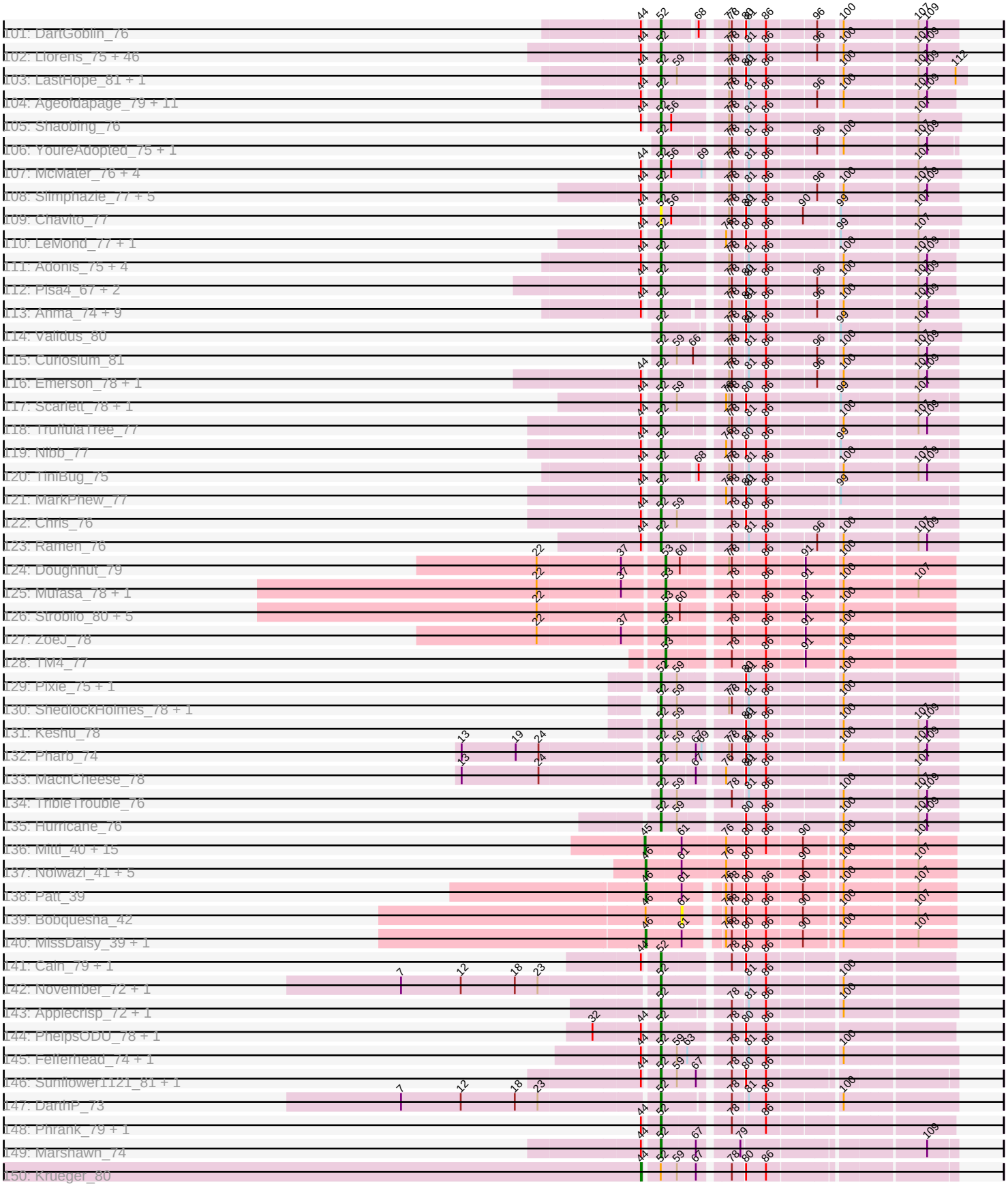
Pham 341576


1: Popcicle_70 + 12
2: Hellosoles_72 + 14
3: Bxz2_70 + 53
4: Stagni_72 + 12
5: Rockstar_69 + 7
6: Rolmos_68 + 1
7: Cat_65 + 1
8: Norbert_66
9: Clammy_72 + 8
10: Goose1X_68 + 7
11: PurpleHaze_74
12: BabyJohn_65 + 1
13: Margo_70
14: KADY_72
15: HelDan_70
16: Loule6_74 + 3
17: Scout_69
18: Nergal_67
19: Michkear_66
20: ThursdayNight_67
21: Skelbel_63 + 7
22: DrManhattan_65 + 2
23: Yang_62
24: Pixelle_62 + 2
25: Simpson_66 + 4
26: Turab_60 + 2
27: Kayllssa_64 + 3
28: Cassia_62
29: Warda_63 + 1
30: Reedo_63
31: Schaffner_61
32: ObiToo_67 + 2
33: Pumpkins_61
34: Cyan_63 + 7
35: Janeemi_61
36: MissSwiss_63
37: KeAlli_60 + 2
38: PandaPo_63
39: Bernie_62
40: Tuck_62 + 2
41: Sue2_60
42: Amplonia_63
43: JuneStar_62
44: ThorTroy_63
45: IUFootball_65 + 2
46: MaGuCo_57
47: Tweety19_62
48: Snek_61
49: Ashes_58
50: RockScotty_57 + 5

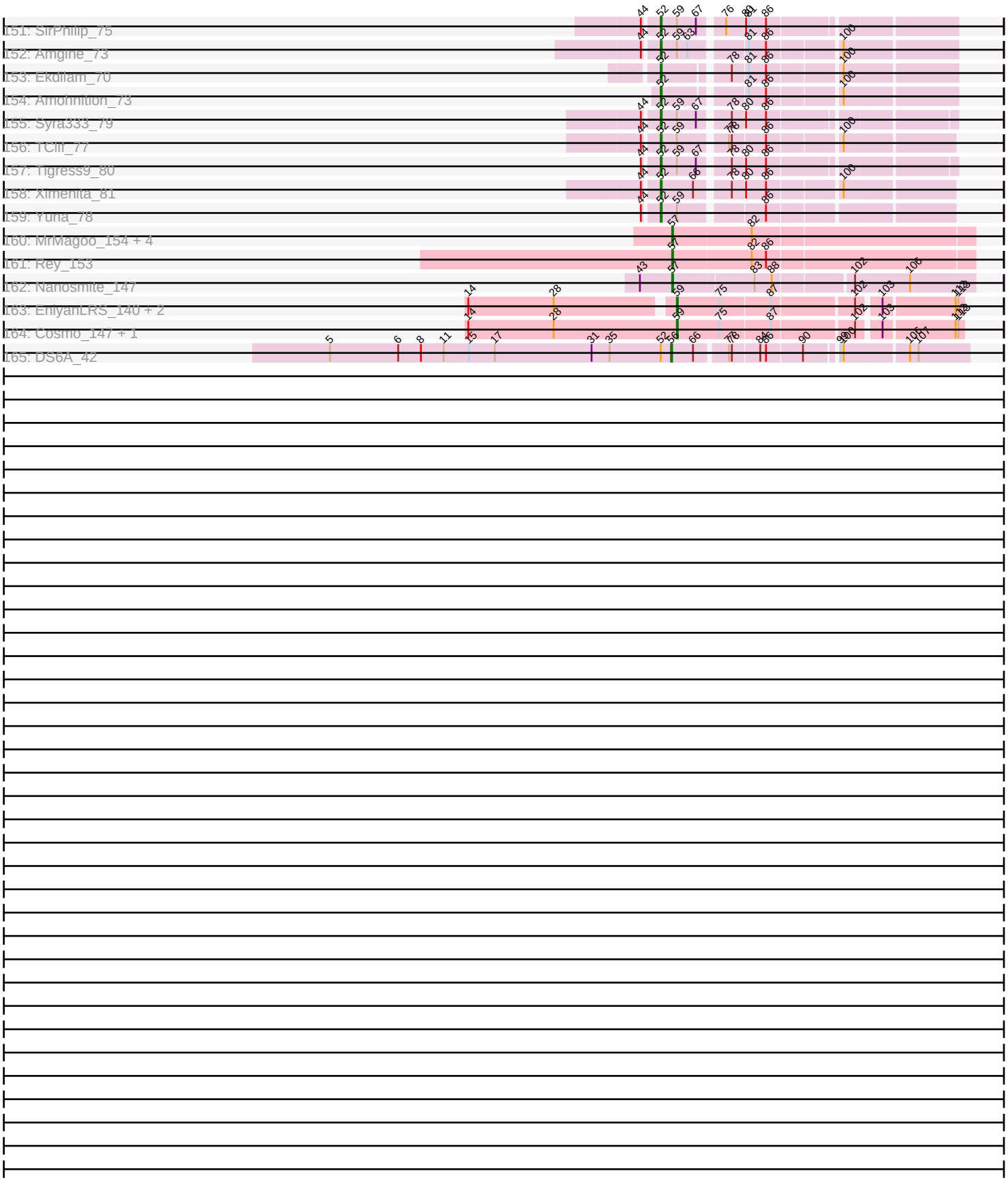
Pham 341576


51: Daisey_58 + 2
52: Jabourin_58 + 1
53: Booty_58 + 2
54: Donkey_58
55: Soohdubu_58
56: Exile_56
57: AimMach_64
58: Cross_94 + 27
59: Bartholomune_93 + 14
60: LilMartin_92 + 4
61: Jay2Jay_98
62: Tribute_92
63: Spelly_98 + 24
64: Yabbi_98 + 5
65: Elmer_99
66: StarPlatinum_98
67: Tomas_99
68: Enygma_98
69: LukeCage_97
70: Daisy123_97
71: Wofford_96
72: Kenrey_87 + 1
73: TunaTartare_84
74: Comrade_85 + 3
75: Annadreamy_83 + 1
76: Maupei_85 + 5
77: Moab_85 + 1
78: SeresaTree_85 + 1
79: Blueeyedbeauty_84
80: SparkleGoddess_85 + 1
81: Beuffert_82
82: Francob_84
83: DeluluLabubu_85
84: Sham_79
85: Circinus_76
86: Chaewon_79
87: BillNye_75
88: Wakanda_76 + 1
89: Weasels2_112
90: Grayson_112 + 1
91: Trina_114
92: NiceHouse_101
93: Francesca_88 + 1
94: Nova53_84
95: Jankie_58 + 1
96: CallmAllBarbz_56
97: BaileyBlu_54
98: Elly_69
99: Nikao_65 + 10
100: Yunkel11_81 + 1

Pham 341576


101: DartGoblin_76
102: Llorens_75 + 46
103: LastHope_81 + 1
104: Ageoldapage_79 + 11
105: Shaobing_76
106: YoureAdopted_75 + 1
107: McMater_76 + 4
108: Slimphazie_77 + 5
109: Chavito_77
110: LeMond_77 + 1
111: Adonis_75 + 4
112: Pisa4_67 + 2
113: Anma_74 + 9
114: Validus_80
115: Curiosium_81
116: Emerson_78 + 1
117: Scarlett_78 + 1
118: TruMulaTree_77
119: Nibb_77
120: TiniBug_75
121: MarkPhew_77
122: Chris_76
123: Ramen_76
124: Doughnut_79
125: Mufasa_78 + 1
126: Strobilo_80 + 5
127: ZoeJ_78
128: TM4_77
129: Pixie_75 + 1
130: SheilockHolmes_78 + 1
131: Keshu_78
132: Pharb_74
133: MacnCheese_78
134: TripleTrouble_76
135: Hurricane_76
136: Mitti_40 + 15
137: Nolwazi_41 + 5
138: Patt_39
139: Bobquesha_42
140: MissDaisy_39 + 1
141: Cain_79 + 1
142: November_72 + 1
143: Applecrisp_72 + 1
144: PhelpsODU_78 + 1
145: Fellerhead_74 + 1
146: Sunflower1121_81 + 1
147: DarthP_73
148: Phrank_79 + 1
149: Marshawn_74
150: Krueger_80

Pham 341576


151: SirPhilip_75
152: Amgine_73
153: Ekdiam_70
154: Amohnition_73
155: Syra333_79
156: TCliff_77
157: Tigress9_80
158: Ximenita_81
159: Yuna_78
160: MrMagoo_154 + 4
161: Rey_153
162: Nanosmile_147
163: EnlyanLRS_140 + 2
164: Cosmo_147 + 1
165: DS6A_42

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 341576 Report

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

Pham number 341576 has 561 members, 44 are drafts.

Phages represented in each track:
• Track 1 : Popcicle_70, Veracruz_67, QuinnKiro_69, Caviar_70, Panamaxus_68, EtoileNova_68, Lambert1_70, Todacoro_70, Noella_70, Pocahontas_69, Hookmount_70, Texage_68, ResDef_68
• Track 2 : Heliosoles_72, Kalnoky_75, PhishRPhriends_71, Kalb97_75, ACFishhook_72, JeppNRM_75, Pawn_73, Groupthink_75, Gemma_72, ClownCar_74, Marius_75, HaveUMetTed_75, OlanP_73, Calvinny_74, Manu_74
• Track 3 : Bxz2_70, Daishi_74, Gwennie_75, Vix_71, Snickers_75, Penny1_75, Grif_73, Montavir_70, AgronaGT15_72, Aglet_76, Dieselweasel_75, Grum1_74, AugsMagnumOpus_78, Pembroke_75, Soshari_77, GtownJaz_75, MadMarie_73, GingkoMaracino_75, Lowa_75, Malinsilva_77, Wooldri_77, LBerry_76, Rummer_74, SoYo_72, Methuselah_68, Mainiac_74, Colbster_71, Grub_73, Cullens_75, SoilDragon_74, Beauxregard13_74, Hercules11_75, LugYA_78, Fernando_75, LarryKay_75, Sabia_73, PGHhamlin_77, PotatoSplit_76, Lilith_73, Zetzy_72, P28Green_75, EpicPhail_76, Ollie_75, BreSam8_75, HashRod_76, Marie_73, Microwolf_71, Watson_74, StepMih_74, MuchMore_78, MoneyMay_74, Farber_75, DaHudson_74, Phoebe_76
• Track 4 : Stagni_72, MarQuardt_75, Croquant_72, Jobu08_71, Bigflo_73, Phoxy_75, Tiffany_74, JenCasNa_76, Sabinator_73, Anubis_78, JHC117_71, Spike509_75, Taurus_76
• Track 5 : Rockstar_69, Isca_68, MK4_70, B1_62, MA5_70, JF4_68, Phantastic_72, JF2_68
• Track 6 : Roimos_68, Zarafa_68
• Track 7 : Cat_65, BabyRay_71
• Track 8 : Norbert_66
• Track 9 : Clammy_72, TNguyen7_71, Idleandcovert_71, BlueBird_73, SaturnRing_70, Puppy_71, Bugatti_73, Pistachio_70, Giroux_73
• Track 10 : Goose1X_68, Marchesa_68, Fred313_68, Heathen_70, DropBear_71, Shep_68, Kachowdy_71, Goose1D_62
• Track 11 : PurpleHaze_74
• Track 12 : BabyJohn_65, Chiqui_65
• Track 13 : Margo_70
• Track 14 : KADY_72
• Track 15 : HelDan_70
• Track 16 : Louie6_74, TinyPebbles_74, BuzzBuzz_69, Misomonster_76
• Track 17 : Scout_69
• Track 18 : Nergal_67
• Track 19 : Michkear_66

• Track 20 : ThursdayNight_67
• Track 21 : Skelbel_63, Eraser_62, Asa16_62, Jstan_63, London_62, Subaru_61, Niobe_62, Elezi_61
• Track 22 : DrManhattan_65, Adolin_64, VResidence_62
• Track 23 : Yang_62
• Track 24 : Pixelle_62, Amyev_62, Tian_61
• Track 25 : Simpson_66, Joemato_63, Tallboi_62, Nitro_63, Flutur_62
• Track 26 : Turab_60, Adumb2043_61, AEgle_60
• Track 27 : Kaylissa_64, Mudpuppy_60, Lizalica_61, Lego_62
• Track 28 : Cassia_62
• Track 29 : Warda_63, Tbone_62
• Track 30 : Reedo_63
• Track 31 : Schaffner_61
• Track 32 : ObiToo_67, IttyBittyPiggy_62, Crewmate_67
• Track 33 : Pumpkins_61
• Track 34 : Cyan_63, Powerpuff_64, Iter_63, Tutumahutu_64, Ascela_64, YesChef_62, AGrandiflora_64, JohnDoe_63
• Track 35 : Janeemi_61
• Track 36 : MissSwiss_63
• Track 37 : KeAlii_60, DrSierra_59, Wildwest_58
• Track 38 : PandaPo_63
• Track 39 : Berrie_62
• Track 40 : Tuck_62, Community_62, Phives_63
• Track 41 : Sue2_60
• Track 42 : Amploria_63
• Track 43 : JuneStar_62
• Track 44 : TforTroy_63
• Track 45 : IUFootball_65, Maureen_64, Liebe_64
• Track 46 : MaGuCo_57
• Track 47 : Tweety19_62
• Track 48 : Snek_61
• Track 49 : Ashes_58
• Track 50 : RockScotty_57, Mysterium_57, Beaupre_57, Gumpizza_57, Giorgio_57, Stuu_58
• Track 51 : Halsey_58, Moss_58, SpecialK_58
• Track 52 : Sabourin_58, Gambol_59
• Track 53 : Sooty_58, Cappuccino_58, Kalimba_58
• Track 54 : Donkey_58
• Track 55 : Soondubu_58
• Track 56 : Exile_56
• Track 57 : AinMach_64
• Track 58 : Cross_94, Bmoc_93, Shuckle_92, PacManQ_93, Leo04_95, Sushi23_93, Coogler_94, ArianaSWT_95, Peebs_93, Teutsch_94, Warpy_97, Marsus_93, Samisti12_94, Lululemon_93, LilSaint_93, Targaryen_94, WashU_93, Evy_94, Cursive_92, Anedea_94, HangryHippo_94, Watermoore_93, BlueOtter_94, Riptide_91, Pepperwood_94, Larnav_94, EGole_95, Scheme_95
• Track 59 : Bartholomune_93, PynkPanther_93, NootNoot_90, FreddyDRoo_93, Navo_92, WhereRU_91, Braelyn_95, PinkiePie_93, Mildred21_93, Paradiddles_90, Liandry_93, Eliot67_92, Davielle_92, Persimmon_93, Squillium_94
• Track 60 : LilMartin_92, Cadmus_92, Daubenski_96, MulchMansion_92, Angela_92
• Track 61 : Jay2Jay_98
• Track 62 : Tribute_92

• Track 63 : Spelly_98, Amabiko_98, JimJam_98, CeilingFan_97, PumpkinSpice_97, TomSawyer_96, KentuckyRacer_98, Tuesday_101, Bordeaux_96, MindFlayer_95, Brizzy_97, Jollison_97, Mugiwara_97, Birchlyn_95, Battuta_96, SaltySpitoon_97, Spilled_99, Karimac_97, IchabodCrane_95, Starbow_96, Gibbi_102, Quaran19_97, AcciDwight_101, Rikishi_97, Wipeout_95
• Track 64 : Yaboi_98, Sollertia_98, Genie2_98, Stanimal_98, BoomerJR_98, AngryGiraffe_97
• Track 65 : Elmer_99
• Track 66 : StarPlatinum_98
• Track 67 : Tomas_99
• Track 68 : Enygma_98
• Track 69 : LukeCage_97
• Track 70 : Daisy123_97
• Track 71 : Wofford_96
• Track 72 : Kenrey_87, Phredrick_85
• Track 73 : TunaTartare_84
• Track 74 : Comrade_85, Westy_86, Karp_83, Belfort_87
• Track 75 : Annadreamy_83, Limpid_82
• Track 76 : Maupel_85, Forrest_88, MeganTheeKilla_84, Emma1919_87, Gilson_86, Jada_86
• Track 77 : Moab_85, Patelgo_85
• Track 78 : SeresaTree_85, Faust_85
• Track 79 : Blueeyedbeauty_84
• Track 80 : SparkleGoddess_85, Stigma_84
• Track 81 : Beuffert_82
• Track 82 : Francob_84
• Track 83 : DeluluLabubu_85
• Track 84 : Sham_79
• Track 85 : Circinus_76
• Track 86 : Chaewon_79
• Track 87 : BillNye_75
• Track 88 : Wakanda_76, Muntaha_77
• Track 89 : Weasels2_112
• Track 90 : Grayson_112, Peregrin_110
• Track 91 : Trina_114
• Track 92 : NiceHouse_101
• Track 93 : Francesca_88, Dorin_88
• Track 94 : Nova53_84
• Track 95 : Jankie_58, GrimEater_57
• Track 96 : CallinAllBarbz_56
• Track 97 : BaileyBlu_54
• Track 98 : Elfy_69
• Track 99 : Nikao_65, Nutello_62, Teejan_64, Mdavu_63, Biglebops_62, Torres_65, LilPharaoh_63, SgtBeansprout_63, Trice_62, Enkosi_64, Amelie_62
• Track 100 : Yunkel11_81, Efra2_82
• Track 101 : DartGoblin_76
• Track 102 : Llorens_75, CaseJules_77, Rapunzel97_78, Boiiii_75, Hyperbowlee_74, Apocalypse_78, Spock_75, Asayake_75, QuincyRose_73, BEEST_75, Topper_75, Twitch_75, BarrelRoll_76, Blizzard_75, Homura_74, ShiaSurprise_76, Joy99_76, Dalmuri_75, Peel_75, CREW_74, Belladonna_75, Jeckyll_75, HedwigODU_75, Atiba_76, Lokum_75, Durfee_75, Deby_75, Piatt_74, Capricorn_75, Mynx_77, Tachez_75, Ganymede_75, AlishaPH_74, Zabiza_71, Rosmarinus_75, Lunahalos_75, Adephagia_74, Jarvi_75, Zavala_78, Padfoot_75, BaghaKamala_74,

Jayhawk_78, Inky_75, CallaLilly_75, Geraldini_79, ActinUp_76, BGlluviae_75
• Track 103 : LastHope_81, TingHuaYa_78
• Track 104 : Ageofdapage_79, Sulley_74, MacKat_72, Anaya_79, Illumine_81, Angelica_74, Stinson_76, TaiwanKao_77, Clipper_80, Megsy_77, Devera_83, Dole_80
• Track 105 : Shaobing_76
• Track 106 : YoureAdopted_75, Beezoo_78
• Track 107 : McMater_76, Richo_76, Niklas_77, Peanam_77, Dartin_76
• Track 108 : Slimphazie_77, Tiri_75, CheetoDust_75, JAWS_74, Veliki_76, Pokerus_76
• Track 109 : Chavito_77
• Track 110 : LeMond_77, Oscar_77
• Track 111 : Adonis_75, MeaningOfLife_77, Bella96_76, Murucutumbu_76, LaterM_75
• Track 112 : Pisa4_67, Guanica15_81, Pisa1_73
• Track 113 : Anma_74, Urkel_75, Kheparia_74, DrHayes_75, CrimD_77, Bern_76, Prithvi_78, SamuelLPlaqson_75, LindNT_74, TreyKay_78
• Track 114 : Validus_80
• Track 115 : Curiosium_81
• Track 116 : Emerson_78, Padpat_79
• Track 117 : Scarlett_78, KiSi_78
• Track 118 : TruffulaTree_77
• Track 119 : Nibb_77
• Track 120 : TiniBug_75
• Track 121 : MarkPhew_77
• Track 122 : Chris_76
• Track 123 : Ramen_76
• Track 124 : Doughnut_79
• Track 125 : Mufasa_78, BoostSeason_78
• Track 126 : Strobilo_80, Marcoliusprime_78, DismalStressor_79, Findley_79, DismalFunk_79, Milly_79
• Track 127 : ZoeJ_78
• Track 128 : TM4_77
• Track 129 : Pixie_75, TBond007_72
• Track 130 : ShedlockHolmes_78, Lea83_76
• Track 131 : Keshu_78
• Track 132 : Pharb_74
• Track 133 : MacnCheese_78
• Track 134 : TribleTrouble_76
• Track 135 : Hurricane_76
• Track 136 : Mitti_40, YasnayaPolyana_40, Cheetobro_40, Malthus_41, Chancellor_40, Qhanda_41, Eponine_42, Lebo14_40, Wintermute_40, OmniCritical_39, Taquito_40, SamScheppers_39, Slarp_40, Fionnbharth_40, Kraw_40, DanSyl44_43
• Track 137 : Nolwazi_41, JF1_40, Y2_39, Y10_39, Juliette_42, Ruthiejr_41
• Track 138 : Patt_39
• Track 139 : Bobquesha_42
• Track 140 : MissDaisy_39, Reptar3000_40
• Track 141 : Cain_79, Bryler_79
• Track 142 : November_72, Hammy_73
• Track 143 : Applecrisp_72, Ellie_71
• Track 144 : PhelpsODU_78, Unicorn_78
• Track 145 : Fefferhead_74, Lavahound_72

• Track 146 : Sunflower1121_81, Shadow1_80
• Track 147 : DarthP_73
• Track 148 : Phrank_79, Tierra_79
• Track 149 : Marshawn_74
• Track 150 : Krueger_80
• Track 151 : SirPhilip_75
• Track 152 : Amgine_73
• Track 153 : Ekdilam_70
• Track 154 : Amohnition_73
• Track 155 : Syra333_79
• Track 156 : TClif_77
• Track 157 : Tigress9_80
• Track 158 : Ximenita_81
• Track 159 : Yuna_78
• Track 160 : MrMagoo_154, GardenSalsa_152, Aziz_150, Estes_152, GenevaB15_153
• Track 161 : Rey_153
• Track 162 : Nanosmite_147
• Track 163 : EniyanLRS_140, Wildcat_147, MaryV_133
• Track 164 : Cosmo_147, Azrael100_140
• Track 165 : DS6A_42

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

The start number called the most often in the published annotations is 52, it was called in 148 of the 517 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_76, Adephagia_74, Adonis_75, Ageofdapage_79, AlishaPH_74, Amelie_62, Amgine_73, Amohnition_73, Anaya_79, Angelica_74, Anma_74, Apocalypse_78, Applecrisp_72, Asayake_75, Atiba_76, BEEST_75, BGlluviae_75, BaghaKamala_74, BarrelRoll_76, Beezoo_78, Bella96_76, Belladonna_75, Bern_76, Biglebops_62, Blizzard_75, Boiiii_75, Bryler_79, CREW_74, Cain_79, CallaLilly_75, Capricorn_75, CaseJules_77, Chavito_77, CheetoDust_75, Chris_76, Clipper_80, CrimD_77, Curiosium_81, Dalmuri_75, DartGoblin_76, DarthP_73, Dartin_76, Deby_75, Devera_83, Dole_80, DrHayes_75, Durfee_75, Efra2_82, Ekdilam_70, Ellie_71, Emerson_78, Enkosi_64, Fefferhead_74, Ganymede_75, Geraldini_79, Guanica15_81, Hammy_73, HedwigODU_75, Homura_74, Hurricane_76, Hyperbowlee_74, Illumine_81, Inky_75, JAWS_74, Jarvi_75, Jayhawk_78, Jeckyll_75, Joy99_76, Keshu_78, Kheparia_74, KiSi_78, LastHope_81, LaterM_75, Lavahound_72, LeMond_77, Lea83_76, LilPharaoh_63, LindNT_74, Llorens_75, Lokum_75, Lunahalos_75, MacKat_72, MacnCheese_78, MarkPhew_77, Marshawn_74, McMater_76, Mdavu_63, MeaningOfLife_77, Megsy_77, Murucutumbu_76, Mynx_77, Nibb_77, Nikao_65, Niklas_77, November_72, Nutello_62, Oscar_77, Padfoot_75, Padpat_79, Peanam_77, Peel_75, Pharb_74, PhelpsODU_78, Phrank_79, Piatt_74, Pisa1_73, Pisa4_67, Pixie_75, Pokerus_76, Prithvi_78, QuincyRose_73, Ramen_76, Rapunzel97_78, Richo_76, Rosmarinus_75, SamuelLPlaqson_75, Scarlett_78, SgtBeansprout_63, Shadow1_80, Shaobing_76, ShedlockHolmes_78, ShiaSurprise_76, SirPhilip_75, Slimphazie_77, Spock_75, Stinson_76, Sue2_60, Sulley_74, Sunflower1121_81, Syra333_79, TBond007_72,

TClif_77, Tachez_75, TaiwanKao_77, Teejan_64, Tierra_79, Tigress9_80, TingHuaYa_78, TiniBug_75, Tiri_75, Topper_75, Torres_65, TreyKay_78, TribleTrouble_76, Trice_62, TruffulaTree_77, Twitch_75, Unicorn_78, Urkel_75, Validus_80, Veliki_76, Ximenita_81, YoureAdopted_75, Yuna_78, Yunkel11_81, Zabiza_71, Zavala_78,

Genes that have the "Most Annotated" start but do not call it:
• DS6A_42, Krueger_80,

Genes that do not have the "Most Annotated" start:
• ACFishhook_72, AEgle_60, AGrandiflora_64, AcciDwight_101, Adolin_64, Adumb2043_61, Aglet_76, AgronaGT15_72, AinMach_64, Amabiko_98, Amploria_63, Amyev_62, Anedea_94, Angela_92, AngryGiraffe_97, Annadreamy_83, Anubis_78, ArianaSWT_95, Asa16_62, Ascela_64, Ashes_58, AugsMagnumOpus_78, Aziz_150, Azrael100_140, B1_62, BabyJohn_65, BabyRay_71, BaileyBlu_54, Bartholomune_93, Battuta_96, Beaupre_57, Beauxregard13_74, Belfort_87, Berrie_62, Beuffert_82, Bigflo_73, BillNye_75, Birchlyn_95, BlueBird_73, BlueOtter_94, Blueeyedbeauty_84, Bmoc_93, Bobquesha_42, BoomerJR_98, BoostSeason_78, Bordeaux_96, Braelyn_95, BreSam8_75, Brizzy_97, Bugatti_73, BuzzBuzz_69, Bxz2_70, Cadmus_92, CallinAllBarbz_56, Calvinny_74, Cappuccino_58, Cassia_62, Cat_65, Caviar_70, CeilingFan_97, Chaewon_79, Chancellor_40, Cheetobro_40, Chiqui_65, Circinus_76, Clammy_72, ClownCar_74, Colbster_71, Community_62, Comrade_85, Coogler_94, Cosmo_147, Crewmate_67, Croquant_72, Cross_94, Cullens_75, Cursive_92, Cyan_63, DaHudson_74, Daishi_74, Daisy123_97, DanSyl44_43, Daubenski_96, Davielle_92, DeluluLabubu_85, Dieselweasel_75, DismalFunk_79, DismalStressor_79, Donkey_58, Dorin_88, Doughnut_79, DrManhattan_65, DrSierra_59, DropBear_71, EGole_95, Elezi_61, Elfy_69, Eliot67_92, Elmer_99, Emma1919_87, EniyanLRS_140, Enygma_98, EpicPhail_76, Eponine_42, Eraser_62, Estes_152, EtoileNova_68, Evy_94, Exile_56, Farber_75, Faust_85, Fernando_75, Findley_79, Fionnbharth_40, Flutur_62, Forrest_88, Francesca_88, Francob_84, Fred313_68, FreddyDRoo_93, Gambol_59, GardenSalsa_152, Gemma_72, GenevaB15_153, Genie2_98, Gibbi_102, Gilson_86, GingkoMaracino_75, Giorgio_57, Giroux_73, Goose1D_62, Goose1X_68, Grayson_112, Grif_73, GrimEater_57, Groupthink_75, Grub_73, Grum1_74, GtownJaz_75, Gumpizza_57, Gwennie_75, Halsey_58, HangryHippo_94, HashRod_76, HaveUMetTed_75, Heathen_70, HelDan_70, Heliosoles_72, Hercules11_75, Hookmount_70, IUFootball_65, IchabodCrane_95, Idleandcovert_71, Isca_68, Iter_63, IttyBittyPiggy_62, JF1_40, JF2_68, JF4_68, JHC117_71, Jada_86, Janeemi_61, Jankie_58, Jay2Jay_98, JenCasNa_76, JeppNRM_75, JimJam_98, Jobu08_71, Joemato_63, JohnDoe_63, Jollison_97, Jstan_63, Juliette_42, JuneStar_62, KADY_72, Kachowdy_71, Kalb97_75, Kalimba_58, Kalnoky_75, Karimac_97, Karp_83, Kaylissa_64, KeAlii_60, Kenrey_87, KentuckyRacer_98, Kraw_40, LBerry_76, Lambert1_70, Larnav_94, LarryKay_75, Lebo14_40, Lego_62, Leo04_95, Liandry_93, Liebe_64, LilMartin_92, LilSaint_93, Lilith_73, Limpid_82, Lizalica_61, London_62, Louie6_74, Lowa_75, LugYA_78, LukeCage_97, Lululemon_93, MA5_70, MK4_70, MaGuCo_57, MadMarie_73, Mainiac_74, Malinsilva_77, Malthus_41, Manu_74, MarQuardt_75, Marchesa_68, Marcoliusprime_78, Margo_70, Marie_73, Marius_75, Marsus_93, MaryV_133, Maupel_85, Maureen_64, MeganTheeKilla_84, Methuselah_68, Michkear_66, Microwolf_71, Mildred21_93, Milly_79, MindFlayer_95, Misomonster_76, MissDaisy_39, MissSwiss_63, Mitti_40, Moab_85, MoneyMay_74, Montavir_70, Moss_58, MrMagoo_154, MuchMore_78, Mudpuppy_60, Mufasa_78, Mugiwara_97,

MulchMansion_92, Muntaha_77, Mysterium_57, Nanosmite_147, Navo_92, Nergal_67, NiceHouse_101, Niobe_62, Nitro_63, Noella_70, Nolwazi_41, NootNoot_90, Norbert_66, Nova53_84, ObiToo_67, OlanP_73, Ollie_75, OmniCritical_39, P28Green_75, PGHhamlin_77, PacManQ_93, Panamaxus_68, PandaPo_63, Paradiddles_90, Patelgo_85, Patt_39, Pawn_73, Peebs_93, Pembroke_75, Penny1_75, Pepperwood_94, Peregrin_110, Persimmon_93, Phantastic_72, PhishRPhriends_71, Phives_63, Phoebe_76, Phoxy_75, Phredrick_85, PinkiePie_93, Pistachio_70, Pixelle_62, Pocahontas_69, Popcicle_70, PotatoSplit_76, Powerpuff_64, PumpkinSpice_97, Pumpkins_61, Puppy_71, PurpleHaze_74, PynkPanther_93, Qhanda_41, Quaran19_97, QuinnKiro_69, Reedo_63, Reptar3000_40, ResDef_68, Rey_153, Rikishi_97, Riptide_91, RockScotty_57, Rockstar_69, Roimos_68, Rummer_74, Ruthiejr_41, Sabia_73, Sabinator_73, Sabourin_58, SaltySpitoon_97, SamScheppers_39, Samisti12_94, SaturnRing_70, Schaffner_61, Scheme_95, Scout_69, SeresaTree_85, Sham_79, Shep_68, Shuckle_92, Simpson_66, Skelbel_63, Slarp_40, Snek_61, Snickers_75, SoYo_72, SoilDragon_74, Sollertia_98, Soondubu_58, Sooty_58, Soshari_77, SparkleGoddess_85, SpecialK_58, Spelly_98, Spike509_75, Spilled_99, Squillium_94, Stagni_72, Stanimal_98, StarPlatinum_98, Starbow_96, StepMih_74, Stigma_84, Strobilo_80, Stuu_58, Subaru_61, Sushi23_93, TM4_77, TNguyen7_71, Tallboi_62, Taquito_40, Targaryen_94, Taurus_76, Tbone_62, Teutsch_94, Texage_68, TforTroy_63, ThursdayNight_67, Tian_61, Tiffany_74, TinyPebbles_74, Todacoro_70, TomSawyer_96, Tomas_99, Tribute_92, Trina_114, Tuck_62, Tuesday_101, TunaTartare_84, Turab_60, Tutumahutu_64, Tweety19_62, VResidence_62, Veracruz_67, Vix_71, Wakanda_76, Warda_63, Warpy_97, WashU_93, Watermoore_93, Watson_74, Weasels2_112, Westy_86, WhereRU_91, Wildcat_147, Wildwest_58, Wintermute_40, Wipeout_95, Wofford_96, Wooldri_77, Y10_39, Y2_39, Yaboi_98, Yang_62, YasnayaPolyana_40, YesChef_62, Zarafa_68, Zetzy_72, ZoeJ_78,

Summary by start number:

Start 38:
• Found in 88 of 561 (15.7%) of genes in pham
• Manual Annotations of this start: 84 of 517
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AcciDwight_101 (BE2), Amabiko_98 (BE2), Anedea_94 (BE1), Angela_92 (BE1), AngryGiraffe_97 (BE2), ArianaSWT_95 (BE1), Bartholomune_93 (BE1), Battuta_96 (BE2), Birchlyn_95 (BE2), BlueOtter_94 (BE1), Bmoc_93 (BE1), BoomerJR_98 (BE2), Bordeaux_96 (BE2), Braelyn_95 (BE1), Brizzy_97 (BE2), Cadmus_92 (BE1), CeilingFan_97 (BE2), Coogler_94 (BE1), Cross_94 (BE1), Cursive_92 (BE1), Daisy123_97 (BE2), Daubenski_96 (BE1), Davielle_92 (BE1), EGole_95 (BE1), Eliot67_92 (BE1), Elmer_99 (BE2), Enygma_98 (BE2), Evy_94 (BE1), FreddyDRoo_93 (BE1), Genie2_98 (BE2), Gibbi_102 (BE2), HangryHippo_94 (BE1), IchabodCrane_95 (BE2), Jay2Jay_98 (BE1), JimJam_98 (BE2), Jollison_97 (BE2), Karimac_97 (BE2), KentuckyRacer_98 (BE2), Larnav_94 (BE1), Leo04_95 (BE1), Liandry_93 (BE1), LilMartin_92 (BE1), LilSaint_93 (BE1), LukeCage_97 (BE2), Lululemon_93 (BE1), Marsus_93 (BE1), Mildred21_93 (BE1), MindFlayer_95 (BE2), Mugiwara_97 (BE2), MulchMansion_92 (BE1), Navo_92 (BE1), NootNoot_90 (BE1), PacManQ_93 (BE1), Paradiddles_90 (BE1), Peebs_93 (BE1), Pepperwood_94 (BE1), Persimmon_93 (BE1), PinkiePie_93 (BE1), PumpkinSpice_97 (BE2), PynkPanther_93 (BE1), Quaran19_97 (BE2), Rikishi_97 (BE2), Riptide_91 (BE1), SaltySpitoon_97 (BE2), Samisti12_94 (BE1), Scheme_95 (BE1), Shuckle_92 (BE1), Sollertia_98 (BE2), Spelly_98 (BE2), Spilled_99 (BE2),

Squillium_94 (BE1), Stanimal_98 (BE2), StarPlatinum_98 (BE2), Starbow_96 (BE2), Sushi23_93 (BE1), Targaryen_94 (BE1), Teutsch_94 (BE1), TomSawyer_96 (BE2), Tomas_99 (BE2), Tribute_92 (BE1), Tuesday_101 (BE2), Warpy_97 (BE1), WashU_93 (BE1), Watermoore_93 (BE1), WhereRU_91 (BE1), Wipeout_95 (BE2), Wofford_96 (BE2), Yaboi_98 (BE2),

Start 39:
• Found in 12 of 561 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 517
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Amploria_63 (AZ1),

Start 40:
• Found in 1 of 561 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 517
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NiceHouse_101 (CE),

Start 41:
• Found in 34 of 561 (6.1%) of genes in pham
• Manual Annotations of this start: 32 of 517
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annadreamy_83 (BK1), Belfort_87 (BK1), Beuffert_82 (BK1), BillNye_75 (BK2), Blueeyedbeauty_84 (BK1), Chaewon_79 (BK2), Circinus_76 (BK2), Comrade_85 (BK1), DeluluLabubu_85 (BK1), Dorin_88 (CG), Emma1919_87 (BK1), Faust_85 (BK1), Forrest_88 (BK1), Francesca_88 (CG), Francob_84 (BK1), Gilson_86 (BK1), Jada_86 (BK1), Karp_83 (BK1), Kenrey_87 (BK1), Limpid_82 (BK1), Maupel_85 (BK1), MeganTheeKilla_84 (BK1), Moab_85 (BK1), Muntaha_77 (BK2), Patelgo_85 (BK1), Phredrick_85 (BK1), SeresaTree_85 (BK1), Sham_79 (BK1), SparkleGoddess_85 (BK1), Stigma_84 (BK1), Trina_114 (CE), TunaTartare_84 (BK1), Wakanda_76 (BK2), Westy_86 (BK1),

Start 42:
• Found in 2 of 561 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 517
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Nova53_84 (CG),

Start 44:
• Found in 137 of 561 (24.4%) of genes in pham
• Manual Annotations of this start: 1 of 517
• Called 0.7% of time when present
• Phage (with cluster) where this start called: Krueger_80 (K6),

Start 45:
• Found in 16 of 561 (2.9%) of genes in pham
• Manual Annotations of this start: 14 of 517
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chancellor_40 (K4), Cheetobro_40 (K4), DanSyl44_43 (K4), Eponine_42 (K4), Fionnbharth_40 (K4), Kraw_40 (K4), Lebo14_40 (K4), Malthus_41 (K4), Mitti_40 (K4), OmniCritical_39 (K4), Qhanda_41 (K4), SamScheppers_39 (K4), Slarp_40 (K4), Taquito_40 (K4), Wintermute_40 (K4), YasnayaPolyana_40 (K4),

Start 46:
• Found in 10 of 561 (1.8%) of genes in pham
• Manual Annotations of this start: 8 of 517
• Called 90.0% of time when present
• Phage (with cluster) where this start called: JF1_40 (K4), Juliette_42 (K4), MissDaisy_39 (K4), Nolwazi_41 (K4), Patt_39 (K4), Reptar3000_40 (K4), Ruthiejr_41 (K4), Y10_39 (K4), Y2_39 (K4),

Start 47:
• Found in 1 of 561 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AinMach_64 (AZ7),

Start 48:
• Found in 3 of 561 (0.5%) of genes in pham
• Manual Annotations of this start: 3 of 517
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Grayson_112 (CB), Peregrin_110 (CB), Weasels2_112 (CB),

Start 49:
• Found in 1 of 561 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 517
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elfy_69 (FP),

Start 51:
• Found in 4 of 561 (0.7%) of genes in pham
• Manual Annotations of this start: 3 of 517
• Called 75.0% of time when present
• Phage (with cluster) where this start called: BaileyBlu_54 (FP), CallinAllBarbz_56 (FP), Soondubu_58 (AZ6),

Start 52:
• Found in 159 of 561 (28.3%) of genes in pham
• Manual Annotations of this start: 148 of 517
• Called 98.7% of time when present
• Phage (with cluster) where this start called: ActinUp_76 (K1), Adephagia_74 (K1), Adonis_75 (K1), Ageofdapage_79 (K1), AlishaPH_74 (K1), Amelie_62 (K1), Amgine_73 (K6), Amohnition_73 (K6), Anaya_79 (K1), Angelica_74 (K1), Anma_74 (K1), Apocalypse_78 (K1), Applecrisp_72 (K6), Asayake_75 (K1), Atiba_76 (K1), BEEST_75 (K1), BGlluviae_75 (K1), BaghaKamala_74 (K1), BarrelRoll_76 (K1), Beezoo_78 (K1), Bella96_76 (K1), Belladonna_75 (K1), Bern_76 (K1), Biglebops_62 (K1), Blizzard_75 (K1), Boiiii_75 (K1), Bryler_79 (K6), CREW_74 (K1), Cain_79 (K6), CallaLilly_75 (K1), Capricorn_75 (K1), CaseJules_77 (K1), Chavito_77 (K1), CheetoDust_75 (K1), Chris_76 (K1), Clipper_80 (K1), CrimD_77 (K1), Curiosium_81 (K1), Dalmuri_75 (K1), DartGoblin_76 (K1), DarthP_73 (K6), Dartin_76 (K1), Deby_75 (K1), Devera_83 (K1), Dole_80 (K1), DrHayes_75 (K1), Durfee_75 (K1), Efra2_82 (K1), Ekdilam_70 (K6), Ellie_71 (K6), Emerson_78 (K1), Enkosi_64 (K1), Fefferhead_74 (K6), Ganymede_75 (K1), Geraldini_79 (K1), Guanica15_81 (K1), Hammy_73 (K6), HedwigODU_75 (K1), Homura_74 (K1), Hurricane_76 (K3),

Hyperbowlee_74 (K1), Illumine_81 (K1), Inky_75 (K1), JAWS_74 (K1), Jarvi_75 (K1), Jayhawk_78 (K1), Jeckyll_75 (K1), Joy99_76 (K1), Keshu_78 (K3), Kheparia_74 (K1), KiSi_78 (K1), LastHope_81 (K1), LaterM_75 (K1), Lavahound_72 (K6), LeMond_77 (K1), Lea83_76 (K3), LilPharaoh_63 (K1), LindNT_74 (K1), Llorens_75 (K1), Lokum_75 (K1), Lunahalos_75 (K1), MacKat_72 (K1), MacnCheese_78 (K3), MarkPhew_77 (K1), Marshawn_74 (K6), McMater_76 (K1), Mdavu_63 (K1), MeaningOfLife_77 (K1), Megsy_77 (K1), Murucutumbu_76 (K1), Mynx_77 (K1), Nibb_77 (K1), Nikao_65 (K1), Niklas_77 (K1), November_72 (K6), Nutello_62 (K1), Oscar_77 (K1), Padfoot_75 (K1), Padpat_79 (K1), Peanam_77 (K1), Peel_75 (K1), Pharb_74 (K3), PhelpsODU_78 (K6), Phrank_79 (K6), Piatt_74 (K1), Pisa1_73 (K1), Pisa4_67 (K1), Pixie_75 (K3), Pokerus_76 (K1), Prithvi_78 (K1), QuincyRose_73 (K1), Ramen_76 (K1), Rapunzel97_78 (K1), Richo_76 (K1), Rosmarinus_75 (K1), SamuelLPlaqson_75 (K1), Scarlett_78 (K1), SgtBeansprout_63 (K1), Shadow1_80 (K6), Shaobing_76 (K1), ShedlockHolmes_78 (K3), ShiaSurprise_76 (K1), SirPhilip_75 (K6), Slimphazie_77 (K1), Spock_75 (K1), Stinson_76 (K1), Sue2_60 (AZ1), Sulley_74 (K1), Sunflower1121_81 (K6), Syra333_79 (K6), TBond007_72 (K3), TClif_77 (K6), Tachez_75 (K1), TaiwanKao_77 (K1), Teejan_64 (K1), Tierra_79 (K6), Tigress9_80 (K6), TingHuaYa_78 (K1), TiniBug_75 (K1), Tiri_75 (K1), Topper_75 (K1), Torres_65 (K1), TreyKay_78 (K1), TribleTrouble_76 (K3), Trice_62 (K1), TruffulaTree_77 (K1), Twitch_75 (K1), Unicorn_78 (K6), Urkel_75 (K1), Validus_80 (K1), Veliki_76 (K1), Ximenita_81 (K6), YoureAdopted_75 (K1), Yuna_78 (K6), Yunkel11_81 (K1), Zabiza_71 (K1), Zavala_78 (K1),

Start 53:
• Found in 12 of 561 (2.1%) of genes in pham
• Manual Annotations of this start: 12 of 517
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BoostSeason_78 (K2), DismalFunk_79 (K2), DismalStressor_79 (K2), Doughnut_79 (K2), Findley_79 (K2), Marcoliusprime_78 (K2), Milly_79 (K2), Mufasa_78 (K2), Nergal_67 (AG), Strobilo_80 (K2), TM4_77 (K2), ZoeJ_78 (K2),

Start 54:
• Found in 81 of 561 (14.4%) of genes in pham
• Manual Annotations of this start: 70 of 517
• Called 98.8% of time when present
• Phage (with cluster) where this start called: AEgle_60 (AZ1), AGrandiflora_64 (AZ1), Adolin_64 (AZ1), Adumb2043_61 (AZ1), Amyev_62 (AZ1), Asa16_62 (AZ1), Ascela_64 (AZ1), Ashes_58 (AZ5), Beaupre_57 (AZ5), Berrie_62 (AZ1), Cappuccino_58 (AZ5), Cassia_62 (AZ1), Community_62 (AZ1), Crewmate_67 (AZ1), Cyan_63 (AZ1), Donkey_58 (AZ5), DrManhattan_65 (AZ1), DrSierra_59 (AZ1), Elezi_61 (AZ1), Eraser_62 (AZ1), Flutur_62 (AZ), Gambol_59 (AZ5), Giorgio_57 (AZ5), Gumpizza_57 (AZ5), Halsey_58 (AZ5), IUFootball_65 (AZ2), Iter_63 (AZ1), IttyBittyPiggy_62 (AZ1), Janeemi_61 (AZ1), Joemato_63 (AZ1), JohnDoe_63 (AZ1), Jstan_63 (AZ1), JuneStar_62 (AZ1), Kalimba_58 (AZ5), Kaylissa_64 (AZ1), KeAlii_60 (AZ1), Lego_62 (AZ1), Liebe_64 (AZ2), Lizalica_61 (AZ1), London_62 (AZ1), MaGuCo_57 (AZ2), Maureen_64 (AZ2), Michkear_66 (AZ), MissSwiss_63 (AZ1), Moss_58 (AZ5), Mudpuppy_60 (AZ1), Mysterium_57 (AZ5), Niobe_62 (AZ1), Nitro_63 (AZ1), ObiToo_67 (AZ1), PandaPo_63 (AZ1), Phives_63 (AZ1), Pixelle_62 (AZ1), Powerpuff_64 (AZ1), Pumpkins_61 (AZ1), Reedo_63 (AZ1), RockScotty_57 (AZ5), Sabourin_58 (AZ5), Schaffner_61 (AZ1), Simpson_66 (AZ1), Skelbel_63 (AZ1), Snek_61 (AZ3), Sooty_58 (AZ5), SpecialK_58 (AZ5), Stuu_58 (AZ5), Subaru_61 (AZ1), Tallboi_62 (AZ1), Tbone_62 (AZ1), TforTroy_63 (AZ1), ThursdayNight_67

(AZ), Tian_61 (AZ1), Tuck_62 (AZ1), Turab_60 (AZ1), Tutumahutu_64 (AZ1), Tweety19_62 (AZ3), VResidence_62 (AZ1), Warda_63 (AZ1), Wildwest_58 (AZ1), Yang_62 (AZ1), YesChef_62 (AZ1),

Start 56:
• Found in 19 of 561 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 517
• Called 5.3% of time when present
• Phage (with cluster) where this start called: DS6A_42 (singleton),

Start 57:
• Found in 7 of 561 (1.2%) of genes in pham
• Manual Annotations of this start: 7 of 517
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aziz_150 (M2), Estes_152 (M2), GardenSalsa_152 (M2), GenevaB15_153 (M2), MrMagoo_154 (M2), Nanosmite_147 (M3), Rey_153 (M2),

Start 58:
• Found in 2 of 561 (0.4%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Exile_56 (AZ6),

Start 59:
• Found in 30 of 561 (5.3%) of genes in pham
• Manual Annotations of this start: 5 of 517
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Azrael100_140 (V), Cosmo_147 (V), EniyanLRS_140 (V), MaryV_133 (V), Wildcat_147 (V),

Start 61:
• Found in 26 of 561 (4.6%) of genes in pham
• No Manual Annotations of this start.
• Called 3.8% of time when present
• Phage (with cluster) where this start called: Bobquesha_42 (K4),

Start 62:
• Found in 2 of 561 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 517
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GrimEater_57 (FP), Jankie_58 (FP),

Start 65:
• Found in 37 of 561 (6.6%) of genes in pham
• Manual Annotations of this start: 27 of 517
• Called 97.3% of time when present
• Phage (with cluster) where this start called: B1_62 (A3), BabyJohn_65 (A3), Caviar_70 (A3), Chiqui_65 (A3), DropBear_71 (A3), EtoileNova_68 (A3), Fred313_68 (A3), Goose1D_62 (A3), Goose1X_68 (A3), Heathen_70 (A3), Hookmount_70 (A3), Isca_68 (A3), JF2_68 (A3), JF4_68 (A3), Kachowdy_71 (A3), Lambert1_70 (A3), MA5_70 (A3), MK4_70 (A3), Marchesa_68 (A3), Margo_70 (A3), Noella_70 (A3), Norbert_66 (A3), Panamaxus_68 (A3), Phantastic_72 (A3), Pocahontas_69 (A3),

Popcicle_70 (A3), QuinnKiro_69 (A3), ResDef_68 (A3), Rockstar_69 (A3), Roimos_68 (A3), Scout_69 (A3), Shep_68 (A3), Texage_68 (A3), Todacoro_70 (A3), Veracruz_67 (A3), Zarafa_68 (A3),

Start 66:
• Found in 23 of 561 (4.1%) of genes in pham
• Manual Annotations of this start: 8 of 517
• Called 39.1% of time when present
• Phage (with cluster) where this start called: BlueBird_73 (A3), Bugatti_73 (A3), Clammy_72 (A3), Giroux_73 (A3), Idleandcovert_71 (A3), Pistachio_70 (A3), Puppy_71 (A3), SaturnRing_70 (A3), TNguyen7_71 (A3),

Start 69:
• Found in 26 of 561 (4.6%) of genes in pham
• Manual Annotations of this start: 1 of 517
• Called 3.8% of time when present
• Phage (with cluster) where this start called: HelDan_70 (A3),

Start 74:
• Found in 88 of 561 (15.7%) of genes in pham
• Manual Annotations of this start: 72 of 517
• Called 83.0% of time when present
• Phage (with cluster) where this start called: ACFishhook_72 (A3), Aglet_76 (A3), AgronaGT15_72 (A3), AugsMagnumOpus_78 (A3), Beauxregard13_74 (A3), BreSam8_75 (A3), BuzzBuzz_69 (A3), Bxz2_70 (A3), Calvinny_74 (A3), ClownCar_74 (A3), Colbster_71 (A3), Cullens_75 (A3), DaHudson_74 (A3), Daishi_74 (A3), Dieselweasel_75 (A3), EpicPhail_76 (A3), Farber_75 (A3), Fernando_75 (A3), Gemma_72 (A3), GingkoMaracino_75 (A3), Grif_73 (A3), Groupthink_75 (A3), Grub_73 (A3), Grum1_74 (A3), GtownJaz_75 (A3), Gwennie_75 (A3), HashRod_76 (A3), HaveUMetTed_75 (A3), Heliosoles_72 (A3), Hercules11_75 (A3), JeppNRM_75 (A3), Kalb97_75 (A3), Kalnoky_75 (A3), LBerry_76 (A3), LarryKay_75 (A3), Lilith_73 (A3), Louie6_74 (A3), Lowa_75 (A3), LugYA_78 (A3), MadMarie_73 (A3), Mainiac_74 (A3), Malinsilva_77 (A3), Manu_74 (A3), Marie_73 (A3), Marius_75 (A3), Methuselah_68 (A3), Microwolf_71 (A3), Misomonster_76 (A3), MoneyMay_74 (A3), Montavir_70 (A3), MuchMore_78 (A3), OlanP_73 (A3), Ollie_75 (A3), P28Green_75 (A3), PGHhamlin_77 (A3), Pawn_73 (A3), Pembroke_75 (A3), Penny1_75 (A3), PhishRPhriends_71 (A3), Phoebe_76 (A3), PotatoSplit_76 (A3), Rummer_74 (A3), Sabia_73 (A3), Snickers_75 (A3), SoYo_72 (A3), SoilDragon_74 (A3), Soshari_77 (A3), StepMih_74 (A3), TinyPebbles_74 (A3), Vix_71 (A3), Watson_74 (A3), Wooldri_77 (A3), Zetzy_72 (A3),

Start 76:
• Found in 125 of 561 (22.3%) of genes in pham
• Manual Annotations of this start: 15 of 517
• Called 13.6% of time when present
• Phage (with cluster) where this start called: Anubis_78 (A3), BabyRay_71 (A3), Bigflo_73 (A3), Cat_65 (A3), Croquant_72 (A3), JHC117_71 (A3), JenCasNa_76 (A3), Jobu08_71 (A3), KADY_72 (A3), MarQuardt_75 (A3), Phoxy_75 (A3), PurpleHaze_74 (A3), Sabinator_73 (A3), Spike509_75 (A3), Stagni_72 (A3), Taurus_76 (A3), Tiffany_74 (A3),

Summary by clusters:

There are 26 clusters represented in this pham: FP, singleton, M2, K3, K2, K1, K6, M3, K4, A3, AG, CB, CG, CE, BK1, BK2, V, AZ, AZ3, BE2, AZ1, AZ2, BE1, AZ5, AZ6, AZ7,

Info for manual annotations of cluster A3:
•Start number 65 was manually annotated 27 times for cluster A3.
•Start number 66 was manually annotated 8 times for cluster A3.
•Start number 69 was manually annotated 1 time for cluster A3.
•Start number 74 was manually annotated 72 times for cluster A3.
•Start number 76 was manually annotated 15 times for cluster A3.

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

Info for manual annotations of cluster AZ:
•Start number 54 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 39 was manually annotated 1 time for cluster AZ1.
•Start number 52 was manually annotated 1 time for cluster AZ1.
•Start number 54 was manually annotated 47 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 54 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 54 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ5:
•Start number 54 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 51 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BE1:
•Start number 38 was manually annotated 49 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 38 was manually annotated 35 times for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 41 was manually annotated 24 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 41 was manually annotated 5 times for cluster BK2.

Info for manual annotations of cluster CB:
•Start number 48 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CE:
•Start number 40 was manually annotated 1 time for cluster CE.
•Start number 41 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CG:
•Start number 41 was manually annotated 2 times for cluster CG.
•Start number 42 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster FP:
•Start number 49 was manually annotated 1 time for cluster FP.
•Start number 51 was manually annotated 2 times for cluster FP.
•Start number 62 was manually annotated 2 times for cluster FP.

Info for manual annotations of cluster K1:
•Start number 52 was manually annotated 113 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 53 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 52 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 45 was manually annotated 14 times for cluster K4.
•Start number 46 was manually annotated 8 times for cluster K4.

Info for manual annotations of cluster K6:
•Start number 44 was manually annotated 1 time for cluster K6.
•Start number 52 was manually annotated 25 times for cluster K6.

Info for manual annotations of cluster M2:
•Start number 57 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 57 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:
•Start number 59 was manually annotated 5 times for cluster V.

Gene Information:

Gene: ACFishhook_72 Start: 42957, Stop: 42733, Start Num: 74
Candidate Starts for ACFishhook_72:
(Start: 74 @42957 has 72 MA's), (Start: 76 @42951 has 15 MA's), (78, 42945),

Gene: AEgle_60 Start: 40834, Stop: 41145, Start Num: 54
Candidate Starts for AEgle_60:
(Start: 39 @40807 has 1 MA's), (Start: 54 @40834 has 70 MA's),

Gene: AGrandiflora_64 Start: 41727, Stop: 42041, Start Num: 54
Candidate Starts for AGrandiflora_64:
(Start: 54 @41727 has 70 MA's),

Gene: AcciDwight_101 Start: 68317, Stop: 68637, Start Num: 38

Candidate Starts for AcciDwight_101:
(Start: 38 @68317 has 84 MA's), (80, 68434), (104, 68575),

Gene: ActinUp_76 Start: 50161, Stop: 50433, Start Num: 52
Candidate Starts for ActinUp_76:
(Start: 44 @50146 has 1 MA's), (Start: 52 @50161 has 148 MA's), (77, 50215), (78, 50218), (81, 50233), (86, 50251), (96, 50299), (100, 50320), (107, 50392), (109, 50401),

Gene: Adephagia_74 Start: 49998, Stop: 50270, Start Num: 52
Candidate Starts for Adephagia_74:
(Start: 44 @49983 has 1 MA's), (Start: 52 @49998 has 148 MA's), (77, 50052), (78, 50055), (81, 50070), (86, 50088), (96, 50136), (100, 50157), (107, 50229), (109, 50238),

Gene: Adolin_64 Start: 40621, Stop: 40935, Start Num: 54
Candidate Starts for Adolin_64:
(Start: 54 @40621 has 70 MA's),

Gene: Adonis_75 Start: 50433, Stop: 50705, Start Num: 52
Candidate Starts for Adonis_75:
(Start: 44 @50418 has 1 MA's), (Start: 52 @50433 has 148 MA's), (77, 50490), (78, 50493), (81, 50508), (86, 50526), (100, 50595), (107, 50667), (109, 50676),

Gene: Adumb2043_61 Start: 40858, Stop: 41169, Start Num: 54
Candidate Starts for Adumb2043_61:
(Start: 39 @40831 has 1 MA's), (Start: 54 @40858 has 70 MA's),

Gene: Ageofdapage_79 Start: 51358, Stop: 51630, Start Num: 52
Candidate Starts for Ageofdapage_79:
(Start: 44 @51343 has 1 MA's), (Start: 52 @51358 has 148 MA's), (77, 51415), (78, 51418), (81, 51433), (86, 51451), (96, 51499), (100, 51520), (107, 51592), (109, 51601),

Gene: Aglet_76 Start: 43069, Stop: 42842, Start Num: 74
Candidate Starts for Aglet_76:
(Start: 74 @43069 has 72 MA's), (Start: 76 @43063 has 15 MA's),

Gene: AgronaGT15_72 Start: 42917, Stop: 42690, Start Num: 74
Candidate Starts for AgronaGT15_72:
(Start: 74 @42917 has 72 MA's), (Start: 76 @42911 has 15 MA's),

Gene: AinMach_64 Start: 40671, Stop: 40973, Start Num: 47
Candidate Starts for AinMach_64:
(30, 40599), (47, 40671), (71, 40731), (78, 40749), (81, 40764), (106, 40902),

Gene: AlishaPH_74 Start: 50259, Stop: 50531, Start Num: 52
Candidate Starts for AlishaPH_74:
(Start: 44 @50244 has 1 MA's), (Start: 52 @50259 has 148 MA's), (77, 50313), (78, 50316), (81, 50331), (86, 50349), (96, 50397), (100, 50418), (107, 50490), (109, 50499),

Gene: Amabiko_98 Start: 68362, Stop: 68682, Start Num: 38
Candidate Starts for Amabiko_98:
(Start: 38 @68362 has 84 MA's), (80, 68479), (104, 68620),

Gene: Amelie_62 Start: 47156, Stop: 47428, Start Num: 52

Candidate Starts for Amelie_62:
(Start: 44 @47141 has 1 MA's), (Start: 52 @47156 has 148 MA's), (Start: 56 @47165 has 1 MA's), (Start: 66 @47186 has 8 MA's), (Start: 69 @47195 has 1 MA's), (77, 47213), (78, 47216), (80, 47228), (81, 47231), (86, 47249), (90, 47285), (95, 47297), (109, 47399),

Gene: Amgine_73 Start: 50668, Stop: 50943, Start Num: 52
Candidate Starts for Amgine_73:
(Start: 44 @50653 has 1 MA's), (Start: 52 @50668 has 148 MA's), (Start: 59 @50683 has 5 MA's), (63, 50692), (81, 50743), (86, 50761), (100, 50830),

Gene: Amohnition_73 Start: 50538, Stop: 50810, Start Num: 52
Candidate Starts for Amohnition_73:
(Start: 52 @50538 has 148 MA's), (81, 50610), (86, 50628), (100, 50697),

Gene: Amploria_63 Start: 41011, Stop: 41349, Start Num: 39
Candidate Starts for Amploria_63:
(Start: 39 @41011 has 1 MA's), (Start: 54 @41038 has 70 MA's),

Gene: Amyev_62 Start: 42418, Stop: 42732, Start Num: 54
Candidate Starts for Amyev_62:
(Start: 39 @42391 has 1 MA's), (Start: 54 @42418 has 70 MA's),

Gene: Anaya_79 Start: 51056, Stop: 51328, Start Num: 52
Candidate Starts for Anaya_79:
(Start: 44 @51041 has 1 MA's), (Start: 52 @51056 has 148 MA's), (77, 51110), (78, 51113), (81, 51128), (86, 51146), (96, 51194), (100, 51215), (107, 51287), (109, 51296),

Gene: Anedea_94 Start: 67639, Stop: 67959, Start Num: 38
Candidate Starts for Anedea_94:
(Start: 38 @67639 has 84 MA's), (92, 67819), (104, 67897),

Gene: Angela_92 Start: 67111, Stop: 67431, Start Num: 38
Candidate Starts for Angela_92:
(Start: 38 @67111 has 84 MA's), (92, 67291), (104, 67369), (108, 67390),

Gene: Angelica_74 Start: 50118, Stop: 50390, Start Num: 52
Candidate Starts for Angelica_74:
(Start: 44 @50103 has 1 MA's), (Start: 52 @50118 has 148 MA's), (77, 50175), (78, 50178), (81, 50193), (86, 50211), (96, 50259), (100, 50280), (107, 50352), (109, 50361),

Gene: AngryGiraffe_97 Start: 68302, Stop: 68622, Start Num: 38
Candidate Starts for AngryGiraffe_97:
(Start: 38 @68302 has 84 MA's), (104, 68560),

Gene: Anma_74 Start: 50512, Stop: 50781, Start Num: 52
Candidate Starts for Anma_74:
(Start: 44 @50497 has 1 MA's), (Start: 52 @50512 has 148 MA's), (77, 50563), (78, 50566), (80, 50578), (81, 50581), (86, 50599), (96, 50647), (100, 50668), (107, 50740), (109, 50749),

Gene: Annadreamy_83 Start: 61223, Stop: 61534, Start Num: 41
Candidate Starts for Annadreamy_83:
(Start: 41 @61223 has 32 MA's), (81, 61334), (92, 61394),

Gene: Anubis_78 Start: 42949, Stop: 42728, Start Num: 76
Candidate Starts for Anubis_78:
(Start: 74 @42955 has 72 MA's), (Start: 76 @42949 has 15 MA's),

Gene: Apocalypse_78 Start: 50800, Stop: 51072, Start Num: 52
Candidate Starts for Apocalypse_78:
(Start: 44 @50785 has 1 MA's), (Start: 52 @50800 has 148 MA's), (77, 50854), (78, 50857), (81, 50872), (86, 50890), (96, 50938), (100, 50959), (107, 51031), (109, 51040),

Gene: Applecrisp_72 Start: 50112, Stop: 50384, Start Num: 52
Candidate Starts for Applecrisp_72:
(Start: 52 @50112 has 148 MA's), (78, 50169), (81, 50184), (86, 50202), (100, 50271),

Gene: ArianaSWT_95 Start: 68113, Stop: 68433, Start Num: 38
Candidate Starts for ArianaSWT_95:
(Start: 38 @68113 has 84 MA's), (92, 68293), (104, 68371),

Gene: Asa16_62 Start: 41419, Stop: 41730, Start Num: 54
Candidate Starts for Asa16_62:
(Start: 54 @41419 has 70 MA's),

Gene: Asayake_75 Start: 50313, Stop: 50585, Start Num: 52
Candidate Starts for Asayake_75:
(Start: 44 @50298 has 1 MA's), (Start: 52 @50313 has 148 MA's), (77, 50367), (78, 50370), (81, 50385), (86, 50403), (96, 50451), (100, 50472), (107, 50544), (109, 50553),

Gene: Ascela_64 Start: 41907, Stop: 42221, Start Num: 54
Candidate Starts for Ascela_64:
(Start: 54 @41907 has 70 MA's),

Gene: Ashes_58 Start: 38079, Stop: 38405, Start Num: 54
Candidate Starts for Ashes_58:
(29, 37980), (32, 38001), (Start: 54 @38079 has 70 MA's), (81, 38157), (107, 38319),

Gene: Atiba_76 Start: 49961, Stop: 50233, Start Num: 52
Candidate Starts for Atiba_76:
(Start: 44 @49946 has 1 MA's), (Start: 52 @49961 has 148 MA's), (77, 50015), (78, 50018), (81, 50033), (86, 50051), (96, 50099), (100, 50120), (107, 50192), (109, 50201),

Gene: AugsMagnumOpus_78 Start: 43060, Stop: 42833, Start Num: 74
Candidate Starts for AugsMagnumOpus_78:
(Start: 74 @43060 has 72 MA's), (Start: 76 @43054 has 15 MA's),

Gene: Aziz_150 Start: 73022, Stop: 72717, Start Num: 57
Candidate Starts for Aziz_150:
(Start: 57 @73022 has 7 MA's), (82, 72941),

Gene: Azrael100_140 Start: 68576, Stop: 68298, Start Num: 59
Candidate Starts for Azrael100_140:
(14, 68795), (28, 68705), (Start: 59 @68576 has 5 MA's), (75, 68531), (87, 68480), (102, 68399), (103, 68378), (112, 68306), (113, 68303),

Gene: B1_62 Start: 41030, Stop: 40761, Start Num: 65

Candidate Starts for B1_62:
(20, 41195), (Start: 65 @41030 has 27 MA's), (78, 41000),

Gene: BEEST_75 Start: 50313, Stop: 50585, Start Num: 52
Candidate Starts for BEEST_75:
(Start: 44 @50298 has 1 MA's), (Start: 52 @50313 has 148 MA's), (77, 50367), (78, 50370), (81, 50385), (86, 50403), (96, 50451), (100, 50472), (107, 50544), (109, 50553),

Gene: BGlluviae_75 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for BGlluviae_75:
(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: BabyJohn_65 Start: 42854, Stop: 42588, Start Num: 65
Candidate Starts for BabyJohn_65:
(55, 42878), (Start: 65 @42854 has 27 MA's), (78, 42824), (98, 42734),

Gene: BabyRay_71 Start: 42787, Stop: 42569, Start Num: 76
Candidate Starts for BabyRay_71:
(Start: 76 @42787 has 15 MA's), (78, 42781), (100, 42679), (106, 42616),

Gene: BaghaKamala_74 Start: 49547, Stop: 49819, Start Num: 52
Candidate Starts for BaghaKamala_74:
(Start: 44 @49532 has 1 MA's), (Start: 52 @49547 has 148 MA's), (77, 49601), (78, 49604), (81, 49619), (86, 49637), (96, 49685), (100, 49706), (107, 49778), (109, 49787),

Gene: BaileyBlu_54 Start: 37900, Stop: 38214, Start Num: 51
Candidate Starts for BaileyBlu_54:
(25, 37780), (Start: 51 @37900 has 3 MA's), (78, 37966), (90, 38035),

Gene: BarrelRoll_76 Start: 50518, Stop: 50790, Start Num: 52
Candidate Starts for BarrelRoll_76:
(Start: 44 @50503 has 1 MA's), (Start: 52 @50518 has 148 MA's), (77, 50572), (78, 50575), (81, 50590), (86, 50608), (96, 50656), (100, 50677), (107, 50749), (109, 50758),

Gene: Bartholomune_93 Start: 67538, Stop: 67858, Start Num: 38
Candidate Starts for Bartholomune_93:
(Start: 38 @67538 has 84 MA's), (81, 67658), (92, 67718), (104, 67796),

Gene: Battuta_96 Start: 68336, Stop: 68656, Start Num: 38
Candidate Starts for Battuta_96:
(Start: 38 @68336 has 84 MA's), (80, 68453), (104, 68594),

Gene: Beaupre_57 Start: 37889, Stop: 38215, Start Num: 54
Candidate Starts for Beaupre_57:
(29, 37790), (32, 37811), (Start: 54 @37889 has 70 MA's), (81, 37967), (107, 38129),

Gene: Beauxregard13_74 Start: 43072, Stop: 42845, Start Num: 74
Candidate Starts for Beauxregard13_74:
(Start: 74 @43072 has 72 MA's), (Start: 76 @43066 has 15 MA's),

Gene: Beezoo_78 Start: 51095, Stop: 51364, Start Num: 52
Candidate Starts for Beezoo_78:

(Start: 52 @51095 has 148 MA's), (77, 51149), (78, 51152), (81, 51167), (86, 51185), (96, 51233), (100, 51254), (107, 51326), (109, 51335),

Gene: Belfort_87 Start: 63047, Stop: 63355, Start Num: 41
Candidate Starts for Belfort_87:
(Start: 41 @63047 has 32 MA's), (80, 63155), (81, 63158), (92, 63218), (102, 63260),

Gene: Bella96_76 Start: 50379, Stop: 50648, Start Num: 52
Candidate Starts for Bella96_76:
(Start: 44 @50364 has 1 MA's), (Start: 52 @50379 has 148 MA's), (77, 50430), (78, 50433), (81, 50448), (86, 50466), (100, 50535), (107, 50607), (109, 50616),

Gene: Belladonna_75 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for Belladonna_75:
(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: Bern_76 Start: 49065, Stop: 49337, Start Num: 52
Candidate Starts for Bern_76:
(Start: 44 @49050 has 1 MA's), (Start: 52 @49065 has 148 MA's), (77, 49122), (78, 49125), (80, 49137), (81, 49140), (86, 49158), (96, 49206), (100, 49227), (107, 49299), (109, 49308),

Gene: Berrie_62 Start: 41517, Stop: 41828, Start Num: 54
Candidate Starts for Berrie_62:
(34, 41463), (Start: 39 @41490 has 1 MA's), (Start: 54 @41517 has 70 MA's),

Gene: Beuffert_82 Start: 61773, Stop: 62084, Start Num: 41
Candidate Starts for Beuffert_82:
(Start: 41 @61773 has 32 MA's), (81, 61884), (92, 61944), (106, 62028),

Gene: Bigflo_73 Start: 43062, Stop: 42841, Start Num: 76
Candidate Starts for Bigflo_73:
(Start: 74 @43068 has 72 MA's), (Start: 76 @43062 has 15 MA's),

Gene: Biglebops_62 Start: 47171, Stop: 47443, Start Num: 52
Candidate Starts for Biglebops_62:
(Start: 44 @47156 has 1 MA's), (Start: 52 @47171 has 148 MA's), (Start: 56 @47180 has 1 MA's), (Start: 66 @47201 has 8 MA's), (Start: 69 @47210 has 1 MA's), (77, 47228), (78, 47231), (80, 47243), (81, 47246), (86, 47264), (90, 47300), (95, 47312), (109, 47414),

Gene: BillNye_75 Start: 62332, Stop: 62643, Start Num: 41
Candidate Starts for BillNye_75:
(Start: 41 @62332 has 32 MA's), (50, 62356), (70, 62413), (89, 62482),

Gene: Birchlyn_95 Start: 66219, Stop: 66539, Start Num: 38
Candidate Starts for Birchlyn_95:
(Start: 38 @66219 has 84 MA's), (80, 66336), (104, 66477),

Gene: Blizzard_75 Start: 50313, Stop: 50585, Start Num: 52
Candidate Starts for Blizzard_75:
(Start: 44 @50298 has 1 MA's), (Start: 52 @50313 has 148 MA's), (77, 50367), (78, 50370), (81, 50385), (86, 50403), (96, 50451), (100, 50472), (107, 50544), (109, 50553),

Gene: BlueBird_73 Start: 42858, Stop: 42592, Start Num: 66
Candidate Starts for BlueBird_73:
(Start: 66 @42858 has 8 MA's), (78, 42828), (100, 42726), (113, 42612),

Gene: BlueOtter_94 Start: 68150, Stop: 68470, Start Num: 38
Candidate Starts for BlueOtter_94:
(Start: 38 @68150 has 84 MA's), (92, 68330), (104, 68408),

Gene: Blueeyedbeauty_84 Start: 61175, Stop: 61483, Start Num: 41
Candidate Starts for Blueeyedbeauty_84:
(Start: 41 @61175 has 32 MA's), (81, 61286), (98, 61361),

Gene: Bmoc_93 Start: 67477, Stop: 67797, Start Num: 38
Candidate Starts for Bmoc_93:
(Start: 38 @67477 has 84 MA's), (92, 67657), (104, 67735),

Gene: Bobquesha_42 Start: 31200, Stop: 31451, Start Num: 61
Candidate Starts for Bobquesha_42:
(Start: 46 @31164 has 8 MA's), (61, 31200), (Start: 76 @31233 has 15 MA's), (78, 31239), (80, 31251), (86, 31272), (90, 31308), (100, 31341), (107, 31413),

Gene: Boiiii_75 Start: 50315, Stop: 50587, Start Num: 52
Candidate Starts for Boiiii_75:
(Start: 44 @50300 has 1 MA's), (Start: 52 @50315 has 148 MA's), (77, 50369), (78, 50372), (81, 50387), (86, 50405), (96, 50453), (100, 50474), (107, 50546), (109, 50555),

Gene: BoomerJR_98 Start: 68191, Stop: 68511, Start Num: 38
Candidate Starts for BoomerJR_98:
(Start: 38 @68191 has 84 MA's), (104, 68449),

Gene: BoostSeason_78 Start: 51944, Stop: 52213, Start Num: 53
Candidate Starts for BoostSeason_78:
(22, 51821), (37, 51905), (Start: 53 @51944 has 12 MA's), (78, 52001), (86, 52034), (91, 52070), (100, 52103), (107, 52175),

Gene: Bordeaux_96 Start: 68491, Stop: 68811, Start Num: 38
Candidate Starts for Bordeaux_96:
(Start: 38 @68491 has 84 MA's), (80, 68608), (104, 68749),

Gene: Braelyn_95 Start: 68302, Stop: 68622, Start Num: 38
Candidate Starts for Braelyn_95:
(Start: 38 @68302 has 84 MA's), (81, 68422), (92, 68482), (104, 68560),

Gene: BreSam8_75 Start: 43062, Stop: 42835, Start Num: 74
Candidate Starts for BreSam8_75:
(Start: 74 @43062 has 72 MA's), (Start: 76 @43056 has 15 MA's),

Gene: Brizzy_97 Start: 68010, Stop: 68330, Start Num: 38
Candidate Starts for Brizzy_97:
(Start: 38 @68010 has 84 MA's), (80, 68127), (104, 68268),

Gene: Bryler_79 Start: 49944, Stop: 50216, Start Num: 52
Candidate Starts for Bryler_79:

(Start: 44 @49929 has 1 MA's), (Start: 52 @49944 has 148 MA's), (78, 50004), (80, 50016), (86, 50037),

Gene: Bugatti_73 Start: 42858, Stop: 42592, Start Num: 66
Candidate Starts for Bugatti_73:
(Start: 66 @42858 has 8 MA's), (78, 42828), (100, 42726), (113, 42612),

Gene: BuzzBuzz_69 Start: 43096, Stop: 42869, Start Num: 74
Candidate Starts for BuzzBuzz_69:
(Start: 74 @43096 has 72 MA's), (Start: 76 @43090 has 15 MA's), (78, 43084),

Gene: Bxz2_70 Start: 43103, Stop: 42876, Start Num: 74
Candidate Starts for Bxz2_70:
(Start: 74 @43103 has 72 MA's), (Start: 76 @43097 has 15 MA's),

Gene: CREW_74 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for CREW_74:
(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: Cadmus_92 Start: 67088, Stop: 67408, Start Num: 38
Candidate Starts for Cadmus_92:
(Start: 38 @67088 has 84 MA's), (92, 67268), (104, 67346), (108, 67367),

Gene: Cain_79 Start: 49932, Stop: 50204, Start Num: 52
Candidate Starts for Cain_79:
(Start: 44 @49917 has 1 MA's), (Start: 52 @49932 has 148 MA's), (78, 49992), (80, 50004), (86, 50025),

Gene: CallaLilly_75 Start: 50039, Stop: 50311, Start Num: 52
Candidate Starts for CallaLilly_75:
(Start: 44 @50024 has 1 MA's), (Start: 52 @50039 has 148 MA's), (77, 50093), (78, 50096), (81, 50111), (86, 50129), (96, 50177), (100, 50198), (107, 50270), (109, 50279),

Gene: CallinAllBarbz_56 Start: 38887, Stop: 39201, Start Num: 51
Candidate Starts for CallinAllBarbz_56:
(Start: 51 @38887 has 3 MA's), (78, 38953), (90, 39022),

Gene: Calvinny_74 Start: 42885, Stop: 42661, Start Num: 74
Candidate Starts for Calvinny_74:
(Start: 74 @42885 has 72 MA's), (Start: 76 @42879 has 15 MA's), (78, 42873),

Gene: Cappuccino_58 Start: 37929, Stop: 38255, Start Num: 54
Candidate Starts for Cappuccino_58:
(1, 37272), (3, 37512), (21, 37788), (32, 37851), (Start: 54 @37929 has 70 MA's), (81, 38007), (107, 38169), (114, 38217),

Gene: Capricorn_75 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for Capricorn_75:
(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: CaseJules_77 Start: 50313, Stop: 50585, Start Num: 52

Candidate Starts for CaseJules_77:
(Start: 44 @50298 has 1 MA's), (Start: 52 @50313 has 148 MA's), (77, 50367), (78, 50370), (81, 50385), (86, 50403), (96, 50451), (100, 50472), (107, 50544), (109, 50553),

Gene: Cassia_62 Start: 41532, Stop: 41846, Start Num: 54
Candidate Starts for Cassia_62:
(Start: 54 @41532 has 70 MA's), (93, 41673),

Gene: Cat_65 Start: 42590, Stop: 42372, Start Num: 76
Candidate Starts for Cat_65:
(Start: 76 @42590 has 15 MA's), (78, 42584), (100, 42482), (106, 42419),

Gene: Caviar_70 Start: 42817, Stop: 42557, Start Num: 65
Candidate Starts for Caviar_70:
(36, 42892), (Start: 65 @42817 has 27 MA's), (78, 42787), (113, 42571),

Gene: CeilingFan_97 Start: 68251, Stop: 68571, Start Num: 38
Candidate Starts for CeilingFan_97:
(Start: 38 @68251 has 84 MA's), (80, 68368), (104, 68509),

Gene: Chaewon_79 Start: 62273, Stop: 62584, Start Num: 41
Candidate Starts for Chaewon_79:
(26, 62180), (27, 62183), (28, 62192), (Start: 41 @62273 has 32 MA's), (50, 62297), (70, 62354), (89, 62423), (104, 62525),

Gene: Chancellor_40 Start: 31427, Stop: 31726, Start Num: 45
Candidate Starts for Chancellor_40:
(Start: 45 @31427 has 14 MA's), (61, 31463), (Start: 76 @31508 has 15 MA's), (80, 31526), (86, 31547), (90, 31583), (100, 31616), (107, 31688),

Gene: Chavito_77 Start: 51039, Stop: 51314, Start Num: 52
Candidate Starts for Chavito_77:
(Start: 44 @51024 has 1 MA's), (Start: 52 @51039 has 148 MA's), (Start: 56 @51048 has 1 MA's), (77, 51093), (78, 51096), (80, 51108), (81, 51111), (86, 51129), (90, 51165), (99, 51195), (107, 51270),

Gene: CheetoDust_75 Start: 49713, Stop: 49985, Start Num: 52
Candidate Starts for CheetoDust_75:
(Start: 44 @49698 has 1 MA's), (Start: 52 @49713 has 148 MA's), (77, 49767), (78, 49770), (81, 49785), (86, 49803), (96, 49851), (100, 49872), (107, 49944), (109, 49953),

Gene: Cheetobro_40 Start: 31424, Stop: 31723, Start Num: 45
Candidate Starts for Cheetobro_40:
(Start: 45 @31424 has 14 MA's), (61, 31460), (Start: 76 @31505 has 15 MA's), (80, 31523), (86, 31544), (90, 31580), (100, 31613), (107, 31685),

Gene: Chiqui_65 Start: 42863, Stop: 42597, Start Num: 65
Candidate Starts for Chiqui_65:
(55, 42887), (Start: 65 @42863 has 27 MA's), (78, 42833), (98, 42743),

Gene: Chris_76 Start: 50718, Stop: 50993, Start Num: 52
Candidate Starts for Chris_76:
(Start: 44 @50703 has 1 MA's), (Start: 52 @50718 has 148 MA's), (Start: 59 @50733 has 5 MA's), (78, 50778), (80, 50790), (86, 50811),

Gene: Circinus_76 Start: 62319, Stop: 62630, Start Num: 41
Candidate Starts for Circinus_76:
(26, 62226), (27, 62229), (28, 62238), (Start: 41 @62319 has 32 MA's), (50, 62343), (70, 62400), (89, 62469),

Gene: Clammy_72 Start: 42858, Stop: 42592, Start Num: 66
Candidate Starts for Clammy_72:
(Start: 66 @42858 has 8 MA's), (78, 42828), (100, 42726), (113, 42612),

Gene: Clipper_80 Start: 51215, Stop: 51487, Start Num: 52
Candidate Starts for Clipper_80:
(Start: 44 @51200 has 1 MA's), (Start: 52 @51215 has 148 MA's), (77, 51272), (78, 51275), (81, 51290), (86, 51308), (96, 51356), (100, 51377), (107, 51449), (109, 51458),

Gene: ClownCar_74 Start: 42878, Stop: 42654, Start Num: 74
Candidate Starts for ClownCar_74:
(Start: 74 @42878 has 72 MA's), (Start: 76 @42872 has 15 MA's), (78, 42866),

Gene: Colbster_71 Start: 43072, Stop: 42845, Start Num: 74
Candidate Starts for Colbster_71:
(Start: 74 @43072 has 72 MA's), (Start: 76 @43066 has 15 MA's),

Gene: Community_62 Start: 41790, Stop: 42101, Start Num: 54
Candidate Starts for Community_62:
(Start: 54 @41790 has 70 MA's),

Gene: Comrade_85 Start: 62663, Stop: 62971, Start Num: 41
Candidate Starts for Comrade_85:
(Start: 41 @62663 has 32 MA's), (80, 62771), (81, 62774), (92, 62834), (102, 62876),

Gene: Coogler_94 Start: 68176, Stop: 68496, Start Num: 38
Candidate Starts for Coogler_94:
(Start: 38 @68176 has 84 MA's), (92, 68356), (104, 68434),

Gene: Cosmo_147 Start: 68740, Stop: 68462, Start Num: 59
Candidate Starts for Cosmo_147:
(14, 68959), (28, 68869), (Start: 59 @68740 has 5 MA's), (75, 68695), (87, 68644), (102, 68563), (103, 68542), (112, 68470), (113, 68467),

Gene: Crewmate_67 Start: 42141, Stop: 42452, Start Num: 54
Candidate Starts for Crewmate_67:
(Start: 54 @42141 has 70 MA's),

Gene: CrimD_77 Start: 51114, Stop: 51386, Start Num: 52
Candidate Starts for CrimD_77:
(Start: 44 @51099 has 1 MA's), (Start: 52 @51114 has 148 MA's), (77, 51171), (78, 51174), (80, 51186), (81, 51189), (86, 51207), (96, 51255), (100, 51276), (107, 51348), (109, 51357),

Gene: Croquant_72 Start: 43060, Stop: 42839, Start Num: 76
Candidate Starts for Croquant_72:
(Start: 74 @43066 has 72 MA's), (Start: 76 @43060 has 15 MA's),

Gene: Cross_94 Start: 68151, Stop: 68471, Start Num: 38
Candidate Starts for Cross_94:
(Start: 38 @68151 has 84 MA's), (92, 68331), (104, 68409),

Gene: Cullens_75 Start: 43068, Stop: 42841, Start Num: 74
Candidate Starts for Cullens_75:
(Start: 74 @43068 has 72 MA's), (Start: 76 @43062 has 15 MA's),

Gene: Curiosium_81 Start: 50080, Stop: 50355, Start Num: 52
Candidate Starts for Curiosium_81:
(Start: 52 @50080 has 148 MA's), (Start: 59 @50095 has 5 MA's), (Start: 66 @50110 has 8 MA's), (77, 50137), (78, 50140), (81, 50155), (86, 50173), (96, 50221), (100, 50242), (107, 50314), (109, 50323),

Gene: Cursive_92 Start: 67676, Stop: 67996, Start Num: 38
Candidate Starts for Cursive_92:
(Start: 38 @67676 has 84 MA's), (92, 67856), (104, 67934),

Gene: Cyan_63 Start: 41471, Stop: 41785, Start Num: 54
Candidate Starts for Cyan_63:
(Start: 54 @41471 has 70 MA's),

Gene: DS6A_42 Start: 32699, Stop: 32980, Start Num: 56
Candidate Starts for DS6A_42:
(5, 32342), (6, 32414), (8, 32438), (11, 32462), (15, 32489), (17, 32516), (31, 32618), (35, 32636), (Start: 52 @32690 has 148 MA's), (Start: 56 @32699 has 1 MA's), (Start: 66 @32720 has 8 MA's), (77, 32750), (78, 32753), (84, 32780), (86, 32786), (90, 32822), (99, 32852), (100, 32855), (106, 32918), (107, 32927),

Gene: DaHudson_74 Start: 43061, Stop: 42834, Start Num: 74
Candidate Starts for DaHudson_74:
(Start: 74 @43061 has 72 MA's), (Start: 76 @43055 has 15 MA's),

Gene: Daishi_74 Start: 41936, Stop: 41709, Start Num: 74
Candidate Starts for Daishi_74:
(Start: 74 @41936 has 72 MA's), (Start: 76 @41930 has 15 MA's),

Gene: Daisy123_97 Start: 68110, Stop: 68430, Start Num: 38
Candidate Starts for Daisy123_97:
(Start: 38 @68110 has 84 MA's), (80, 68227), (97, 68302), (104, 68368),

Gene: Dalmuri_75 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for Dalmuri_75:
(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: DanSyl44_43 Start: 32293, Stop: 32592, Start Num: 45
Candidate Starts for DanSyl44_43:
(Start: 45 @32293 has 14 MA's), (61, 32329), (Start: 76 @32374 has 15 MA's), (80, 32392), (86, 32413), (90, 32449), (100, 32482), (107, 32554),

Gene: DartGoblin_76 Start: 50342, Stop: 50611, Start Num: 52
Candidate Starts for DartGoblin_76:

(Start: 44 @50327 has 1 MA's), (Start: 52 @50342 has 148 MA's), (68, 50372), (77, 50393), (78, 50396), (80, 50408), (81, 50411), (86, 50429), (96, 50477), (100, 50498), (107, 50570), (109, 50579),

Gene: DarthP_73 Start: 50395, Stop: 50667, Start Num: 52
Candidate Starts for DarthP_73:
(7, 50134), (12, 50197), (18, 50254), (23, 50278), (Start: 52 @50395 has 148 MA's), (78, 50452), (81, 50467), (86, 50485), (100, 50554),

Gene: Dartin_76 Start: 50287, Stop: 50565, Start Num: 52
Candidate Starts for Dartin_76:
(Start: 44 @50272 has 1 MA's), (Start: 52 @50287 has 148 MA's), (Start: 56 @50296 has 1 MA's), (Start: 69 @50326 has 1 MA's), (77, 50344), (78, 50347), (81, 50362), (86, 50380), (107, 50521),

Gene: Daubenski_96 Start: 67852, Stop: 68172, Start Num: 38
Candidate Starts for Daubenski_96:
(Start: 38 @67852 has 84 MA's), (92, 68032), (104, 68110), (108, 68131),

Gene: Davielle_92 Start: 67722, Stop: 68042, Start Num: 38
Candidate Starts for Davielle_92:
(Start: 38 @67722 has 84 MA's), (81, 67842), (92, 67902), (104, 67980),

Gene: Deby_75 Start: 50485, Stop: 50757, Start Num: 52
Candidate Starts for Deby_75:
(Start: 44 @50470 has 1 MA's), (Start: 52 @50485 has 148 MA's), (77, 50539), (78, 50542), (81, 50557), (86, 50575), (96, 50623), (100, 50644), (107, 50716), (109, 50725),

Gene: DeluluLabubu_85 Start: 60726, Stop: 61031, Start Num: 41
Candidate Starts for DeluluLabubu_85:
(Start: 41 @60726 has 32 MA's), (81, 60837), (88, 60861), (102, 60939),

Gene: Devera_83 Start: 51910, Stop: 52182, Start Num: 52
Candidate Starts for Devera_83:
(Start: 44 @51895 has 1 MA's), (Start: 52 @51910 has 148 MA's), (77, 51967), (78, 51970), (81, 51985), (86, 52003), (96, 52051), (100, 52072), (107, 52144), (109, 52153),

Gene: Dieselweasel_75 Start: 43070, Stop: 42843, Start Num: 74
Candidate Starts for Dieselweasel_75:
(Start: 74 @43070 has 72 MA's), (Start: 76 @43064 has 15 MA's),

Gene: DismalFunk_79 Start: 52473, Stop: 52742, Start Num: 53
Candidate Starts for DismalFunk_79:
(22, 52350), (Start: 53 @52473 has 12 MA's), (60, 52488), (78, 52530), (86, 52563), (91, 52599), (100, 52632),

Gene: DismalStressor_79 Start: 52473, Stop: 52742, Start Num: 53
Candidate Starts for DismalStressor_79:
(22, 52350), (Start: 53 @52473 has 12 MA's), (60, 52488), (78, 52530), (86, 52563), (91, 52599), (100, 52632),

Gene: Dole_80 Start: 51913, Stop: 52185, Start Num: 52
Candidate Starts for Dole_80:
(Start: 44 @51898 has 1 MA's), (Start: 52 @51913 has 148 MA's), (77, 51970), (78, 51973), (81, 51988), (86, 52006), (96, 52054), (100, 52075), (107, 52147), (109, 52156),

Gene: Donkey_58 Start: 37919, Stop: 38245, Start Num: 54
Candidate Starts for Donkey_58:
(1, 37262), (21, 37778), (32, 37841), (Start: 54 @37919 has 70 MA's), (107, 38159), (114, 38207),

Gene: Dorin_88 Start: 68544, Stop: 68846, Start Num: 41
Candidate Starts for Dorin_88:
(33, 68508), (Start: 41 @68544 has 32 MA's), (99, 68739),

Gene: Doughnut_79 Start: 52109, Stop: 52378, Start Num: 53
Candidate Starts for Doughnut_79:
(22, 51986), (37, 52070), (Start: 53 @52109 has 12 MA's), (60, 52124), (77, 52163), (78, 52166), (86, 52199), (91, 52235), (100, 52268),

Gene: DrHayes_75 Start: 50512, Stop: 50781, Start Num: 52
Candidate Starts for DrHayes_75:
(Start: 44 @50497 has 1 MA's), (Start: 52 @50512 has 148 MA's), (77, 50563), (78, 50566), (80, 50578), (81, 50581), (86, 50599), (96, 50647), (100, 50668), (107, 50740), (109, 50749),

Gene: DrManhattan_65 Start: 40175, Stop: 40489, Start Num: 54
Candidate Starts for DrManhattan_65:
(Start: 54 @40175 has 70 MA's),

Gene: DrSierra_59 Start: 40307, Stop: 40618, Start Num: 54
Candidate Starts for DrSierra_59:
(Start: 39 @40280 has 1 MA's), (Start: 54 @40307 has 70 MA's),

Gene: DropBear_71 Start: 42778, Stop: 42512, Start Num: 65
Candidate Starts for DropBear_71:
(36, 42853), (Start: 65 @42778 has 27 MA's), (Start: 69 @42769 has 1 MA's), (78, 42748), (100, 42646),

Gene: Durfee_75 Start: 50313, Stop: 50585, Start Num: 52
Candidate Starts for Durfee_75:
(Start: 44 @50298 has 1 MA's), (Start: 52 @50313 has 148 MA's), (77, 50367), (78, 50370), (81, 50385), (86, 50403), (96, 50451), (100, 50472), (107, 50544), (109, 50553),

Gene: EGole_95 Start: 69096, Stop: 69416, Start Num: 38
Candidate Starts for EGole_95:
(Start: 38 @69096 has 84 MA's), (92, 69276), (104, 69354),

Gene: Efra2_82 Start: 50946, Stop: 51221, Start Num: 52
Candidate Starts for Efra2_82:
(Start: 44 @50931 has 1 MA's), (Start: 52 @50946 has 148 MA's), (77, 51003), (78, 51006), (80, 51018), (81, 51021), (86, 51039), (96, 51087), (100, 51108), (107, 51180), (109, 51189),

Gene: Ekdilam_70 Start: 50603, Stop: 50875, Start Num: 52
Candidate Starts for Ekdilam_70:
(Start: 52 @50603 has 148 MA's), (78, 50660), (81, 50675), (86, 50693), (100, 50762),

Gene: Elezi_61 Start: 41176, Stop: 41487, Start Num: 54
Candidate Starts for Elezi_61:
(Start: 54 @41176 has 70 MA's),

Gene: Elfy_69 Start: 40687, Stop: 41013, Start Num: 49
Candidate Starts for Elfy_69:
(Start: 49 @40687 has 1 MA's), (96, 40852), (106, 40933),

Gene: Eliot67_92 Start: 67580, Stop: 67900, Start Num: 38
Candidate Starts for Eliot67_92:
(Start: 38 @67580 has 84 MA's), (81, 67700), (92, 67760), (104, 67838),

Gene: Ellie_71 Start: 49839, Stop: 50111, Start Num: 52
Candidate Starts for Ellie_71:
(Start: 52 @49839 has 148 MA's), (78, 49896), (81, 49911), (86, 49929), (100, 49998),

Gene: Elmer_99 Start: 68657, Stop: 68983, Start Num: 38
Candidate Starts for Elmer_99:
(Start: 38 @68657 has 84 MA's), (85, 68798), (92, 68843), (108, 68942),

Gene: Emerson_78 Start: 50552, Stop: 50824, Start Num: 52
Candidate Starts for Emerson_78:
(Start: 44 @50537 has 1 MA's), (Start: 52 @50552 has 148 MA's), (77, 50606), (78, 50609), (81, 50624), (86, 50642), (96, 50690), (100, 50711), (107, 50783), (109, 50792),

Gene: Emma1919_87 Start: 61386, Stop: 61691, Start Num: 41
Candidate Starts for Emma1919_87:
(Start: 41 @61386 has 32 MA's), (81, 61497), (102, 61599),

Gene: EniyanLRS_140 Start: 69081, Stop: 68803, Start Num: 59
Candidate Starts for EniyanLRS_140:
(14, 69288), (28, 69198), (Start: 59 @69081 has 5 MA's), (75, 69036), (87, 68985), (102, 68904), (103, 68883), (112, 68811), (113, 68808),

Gene: Enkosi_64 Start: 49769, Stop: 50041, Start Num: 52
Candidate Starts for Enkosi_64:
(Start: 44 @49754 has 1 MA's), (Start: 52 @49769 has 148 MA's), (Start: 56 @49778 has 1 MA's), (Start: 66 @49799 has 8 MA's), (Start: 69 @49808 has 1 MA's), (77, 49826), (78, 49829), (80, 49841), (81, 49844), (86, 49862), (90, 49898), (95, 49910), (109, 50012),

Gene: Enygma_98 Start: 70147, Stop: 70467, Start Num: 38
Candidate Starts for Enygma_98:
(Start: 38 @70147 has 84 MA's), (68, 70219), (104, 70405),

Gene: EpicPhail_76 Start: 43072, Stop: 42845, Start Num: 74
Candidate Starts for EpicPhail_76:
(Start: 74 @43072 has 72 MA's), (Start: 76 @43066 has 15 MA's),

Gene: Eponine_42 Start: 32180, Stop: 32479, Start Num: 45
Candidate Starts for Eponine_42:
(Start: 45 @32180 has 14 MA's), (61, 32216), (Start: 76 @32261 has 15 MA's), (80, 32279), (86, 32300), (90, 32336), (100, 32369), (107, 32441),

Gene: Eraser_62 Start: 41426, Stop: 41737, Start Num: 54
Candidate Starts for Eraser_62:
(Start: 54 @41426 has 70 MA's),

Gene: Estes_152 Start: 73391, Stop: 73086, Start Num: 57
Candidate Starts for Estes_152:
(Start: 57 @73391 has 7 MA's), (82, 73310),

Gene: EtoileNova_68 Start: 42821, Stop: 42561, Start Num: 65
Candidate Starts for EtoileNova_68:
(36, 42896), (Start: 65 @42821 has 27 MA's), (78, 42791), (113, 42575),

Gene: Evy_94 Start: 68051, Stop: 68371, Start Num: 38
Candidate Starts for Evy_94:
(Start: 38 @68051 has 84 MA's), (92, 68231), (104, 68309),

Gene: Exile_56 Start: 42346, Stop: 42639, Start Num: 58
Candidate Starts for Exile_56:
(Start: 51 @42331 has 3 MA's), (58, 42346), (78, 42397), (90, 42466), (103, 42538), (106, 42562),

Gene: Farber_75 Start: 43058, Stop: 42831, Start Num: 74
Candidate Starts for Farber_75:
(Start: 74 @43058 has 72 MA's), (Start: 76 @43052 has 15 MA's),

Gene: Faust_85 Start: 62596, Stop: 62907, Start Num: 41
Candidate Starts for Faust_85:
(Start: 41 @62596 has 32 MA's), (81, 62707),

Gene: Fefferhead_74 Start: 49897, Stop: 50172, Start Num: 52
Candidate Starts for Fefferhead_74:
(Start: 44 @49882 has 1 MA's), (Start: 52 @49897 has 148 MA's), (Start: 59 @49912 has 5 MA's), (63, 49921), (78, 49957), (81, 49972), (86, 49990), (100, 50059),

Gene: Fernando_75 Start: 43068, Stop: 42841, Start Num: 74
Candidate Starts for Fernando_75:
(Start: 74 @43068 has 72 MA's), (Start: 76 @43062 has 15 MA's),

Gene: Findley_79 Start: 52491, Stop: 52760, Start Num: 53
Candidate Starts for Findley_79:
(22, 52368), (Start: 53 @52491 has 12 MA's), (60, 52506), (78, 52548), (86, 52581), (91, 52617), (100, 52650),

Gene: Fionnbharth_40 Start: 31415, Stop: 31714, Start Num: 45
Candidate Starts for Fionnbharth_40:
(Start: 45 @31415 has 14 MA's), (61, 31451), (Start: 76 @31496 has 15 MA's), (80, 31514), (86, 31535), (90, 31571), (100, 31604), (107, 31676),

Gene: Flutur_62 Start: 41752, Stop: 42066, Start Num: 54
Candidate Starts for Flutur_62:
(Start: 54 @41752 has 70 MA's),

Gene: Forrest_88 Start: 62679, Stop: 62984, Start Num: 41
Candidate Starts for Forrest_88:
(Start: 41 @62679 has 32 MA's), (81, 62790), (102, 62892),

Gene: Francesca_88 Start: 69282, Stop: 69584, Start Num: 41

Candidate Starts for Francesca_88:
(33, 69246), (Start: 41 @69282 has 32 MA's), (99, 69477),

Gene: Francob_84 Start: 61425, Stop: 61733, Start Num: 41
Candidate Starts for Francob_84:
(Start: 41 @61425 has 32 MA's), (81, 61536), (105, 61677),

Gene: Fred313_68 Start: 42472, Stop: 42206, Start Num: 65
Candidate Starts for Fred313_68:
(36, 42547), (Start: 65 @42472 has 27 MA's), (Start: 69 @42463 has 1 MA's), (78, 42442), (100, 42340),

Gene: FreddyDRoo_93 Start: 67580, Stop: 67900, Start Num: 38
Candidate Starts for FreddyDRoo_93:
(Start: 38 @67580 has 84 MA's), (81, 67700), (92, 67760), (104, 67838),

Gene: Gambol_59 Start: 37938, Stop: 38264, Start Num: 54
Candidate Starts for Gambol_59:
(1, 37281), (21, 37797), (32, 37860), (Start: 54 @37938 has 70 MA's), (81, 38016), (107, 38178), (114, 38226),

Gene: Ganymede_75 Start: 50523, Stop: 50792, Start Num: 52
Candidate Starts for Ganymede_75:
(Start: 44 @50508 has 1 MA's), (Start: 52 @50523 has 148 MA's), (77, 50577), (78, 50580), (81, 50595), (86, 50613), (96, 50661), (100, 50682), (107, 50754), (109, 50763),

Gene: GardenSalsa_152 Start: 73558, Stop: 73253, Start Num: 57
Candidate Starts for GardenSalsa_152:
(Start: 57 @73558 has 7 MA's), (82, 73477),

Gene: Gemma_72 Start: 42881, Stop: 42657, Start Num: 74
Candidate Starts for Gemma_72:
(Start: 74 @42881 has 72 MA's), (Start: 76 @42875 has 15 MA's), (78, 42869),

Gene: GenevaB15_153 Start: 73022, Stop: 72717, Start Num: 57
Candidate Starts for GenevaB15_153:
(Start: 57 @73022 has 7 MA's), (82, 72941),

Gene: Genie2_98 Start: 68305, Stop: 68625, Start Num: 38
Candidate Starts for Genie2_98:
(Start: 38 @68305 has 84 MA's), (104, 68563),

Gene: Geraldini_79 Start: 51113, Stop: 51382, Start Num: 52
Candidate Starts for Geraldini_79:
(Start: 44 @51098 has 1 MA's), (Start: 52 @51113 has 148 MA's), (77, 51167), (78, 51170), (81, 51185), (86, 51203), (96, 51251), (100, 51272), (107, 51344), (109, 51353),

Gene: Gibbi_102 Start: 68474, Stop: 68794, Start Num: 38
Candidate Starts for Gibbi_102:
(Start: 38 @68474 has 84 MA's), (80, 68591), (104, 68732),

Gene: Gilson_86 Start: 61348, Stop: 61653, Start Num: 41
Candidate Starts for Gilson_86:

(Start: 41 @61348 has 32 MA's), (81, 61459), (102, 61561),

Gene: GingkoMaracino_75 Start: 42954, Stop: 42727, Start Num: 74
Candidate Starts for GingkoMaracino_75:
(Start: 74 @42954 has 72 MA's), (Start: 76 @42948 has 15 MA's),

Gene: Giorgio_57 Start: 37872, Stop: 38198, Start Num: 54
Candidate Starts for Giorgio_57:
(29, 37773), (32, 37794), (Start: 54 @37872 has 70 MA's), (81, 37950), (107, 38112),

Gene: Giroux_73 Start: 42857, Stop: 42591, Start Num: 66
Candidate Starts for Giroux_73:
(Start: 66 @42857 has 8 MA's), (78, 42827), (100, 42725), (113, 42611),

Gene: Goose1D_62 Start: 38959, Stop: 38693, Start Num: 65
Candidate Starts for Goose1D_62:
(36, 39034), (Start: 65 @38959 has 27 MA's), (Start: 69 @38950 has 1 MA's), (78, 38929), (100, 38827),

Gene: Goose1X_68 Start: 42101, Stop: 41835, Start Num: 65
Candidate Starts for Goose1X_68:
(36, 42176), (Start: 65 @42101 has 27 MA's), (Start: 69 @42092 has 1 MA's), (78, 42071), (100, 41969),

Gene: Grayson_112 Start: 70156, Stop: 70446, Start Num: 48
Candidate Starts for Grayson_112:
(Start: 48 @70156 has 3 MA's), (92, 70306),

Gene: Grif_73 Start: 43142, Stop: 42915, Start Num: 74
Candidate Starts for Grif_73:
(Start: 74 @43142 has 72 MA's), (Start: 76 @43136 has 15 MA's),

Gene: GrimEater_57 Start: 38861, Stop: 39160, Start Num: 62
Candidate Starts for GrimEater_57:
(9, 38597), (10, 38600), (16, 38642), (Start: 62 @38861 has 2 MA's), (78, 38906), (96, 38990),

Gene: Groupthink_75 Start: 42885, Stop: 42661, Start Num: 74
Candidate Starts for Groupthink_75:
(Start: 74 @42885 has 72 MA's), (Start: 76 @42879 has 15 MA's), (78, 42873),

Gene: Grub_73 Start: 43060, Stop: 42833, Start Num: 74
Candidate Starts for Grub_73:
(Start: 74 @43060 has 72 MA's), (Start: 76 @43054 has 15 MA's),

Gene: Grum1_74 Start: 43068, Stop: 42841, Start Num: 74
Candidate Starts for Grum1_74:
(Start: 74 @43068 has 72 MA's), (Start: 76 @43062 has 15 MA's),

Gene: GtownJaz_75 Start: 43069, Stop: 42842, Start Num: 74
Candidate Starts for GtownJaz_75:
(Start: 74 @43069 has 72 MA's), (Start: 76 @43063 has 15 MA's),

Gene: Guanica15_81 Start: 50692, Stop: 50967, Start Num: 52

Candidate Starts for Guanica15_81:
(Start: 44 @50677 has 1 MA's), (Start: 52 @50692 has 148 MA's), (77, 50749), (78, 50752), (80, 50764), (81, 50767), (86, 50785), (96, 50833), (100, 50854), (107, 50926), (109, 50935),

Gene: Gumpizza_57 Start: 37828, Stop: 38154, Start Num: 54
Candidate Starts for Gumpizza_57:
(29, 37729), (32, 37750), (Start: 54 @37828 has 70 MA's), (81, 37906), (107, 38068),

Gene: Gwennie_75 Start: 43072, Stop: 42845, Start Num: 74
Candidate Starts for Gwennie_75:
(Start: 74 @43072 has 72 MA's), (Start: 76 @43066 has 15 MA's),

Gene: Halsey_58 Start: 38069, Stop: 38395, Start Num: 54
Candidate Starts for Halsey_58:
(32, 37991), (Start: 54 @38069 has 70 MA's), (81, 38147), (107, 38309),

Gene: Hammy_73 Start: 50380, Stop: 50652, Start Num: 52
Candidate Starts for Hammy_73:
(7, 50119), (12, 50182), (18, 50239), (23, 50263), (Start: 52 @50380 has 148 MA's), (81, 50452), (86, 50470), (100, 50539),

Gene: HangryHippo_94 Start: 68150, Stop: 68470, Start Num: 38
Candidate Starts for HangryHippo_94:
(Start: 38 @68150 has 84 MA's), (92, 68330), (104, 68408),

Gene: HashRod_76 Start: 43096, Stop: 42869, Start Num: 74
Candidate Starts for HashRod_76:
(Start: 74 @43096 has 72 MA's), (Start: 76 @43090 has 15 MA's),

Gene: HaveUMetTed_75 Start: 42870, Stop: 42646, Start Num: 74
Candidate Starts for HaveUMetTed_75:
(Start: 74 @42870 has 72 MA's), (Start: 76 @42864 has 15 MA's), (78, 42858),

Gene: Heathen_70 Start: 42567, Stop: 42301, Start Num: 65
Candidate Starts for Heathen_70:
(36, 42642), (Start: 65 @42567 has 27 MA's), (Start: 69 @42558 has 1 MA's), (78, 42537), (100, 42435),

Gene: HedwigODU_75 Start: 50161, Stop: 50433, Start Num: 52
Candidate Starts for HedwigODU_75:
(Start: 44 @50146 has 1 MA's), (Start: 52 @50161 has 148 MA's), (77, 50215), (78, 50218), (81, 50233), (86, 50251), (96, 50299), (100, 50320), (107, 50392), (109, 50401),

Gene: HelDan_70 Start: 42774, Stop: 42517, Start Num: 69
Candidate Starts for HelDan_70:
(36, 42858), (Start: 65 @42783 has 27 MA's), (Start: 69 @42774 has 1 MA's), (78, 42753), (100, 42651),

Gene: Heliosoles_72 Start: 42888, Stop: 42664, Start Num: 74
Candidate Starts for Heliosoles_72:
(Start: 74 @42888 has 72 MA's), (Start: 76 @42882 has 15 MA's), (78, 42876),

Gene: Hercules11_75 Start: 43077, Stop: 42850, Start Num: 74

Candidate Starts for Hercules11_75:
(Start: 74 @43077 has 72 MA's), (Start: 76 @43071 has 15 MA's),

Gene: Homura_74 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for Homura_74:
(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: Hookmount_70 Start: 42818, Stop: 42558, Start Num: 65
Candidate Starts for Hookmount_70:
(36, 42893), (Start: 65 @42818 has 27 MA's), (78, 42788), (113, 42572),

Gene: Hurricane_76 Start: 50335, Stop: 50607, Start Num: 52
Candidate Starts for Hurricane_76:
(Start: 52 @50335 has 148 MA's), (Start: 59 @50350 has 5 MA's), (80, 50404), (86, 50425), (100, 50494), (107, 50566), (109, 50575),

Gene: Hyperbowlee_74 Start: 50313, Stop: 50585, Start Num: 52
Candidate Starts for Hyperbowlee_74:
(Start: 44 @50298 has 1 MA's), (Start: 52 @50313 has 148 MA's), (77, 50367), (78, 50370), (81, 50385), (86, 50403), (96, 50451), (100, 50472), (107, 50544), (109, 50553),

Gene: IUFootball_65 Start: 43444, Stop: 43758, Start Num: 54
Candidate Starts for IUFootball_65:
(Start: 54 @43444 has 70 MA's), (72, 43489), (78, 43507), (94, 43588), (115, 43735),

Gene: IchabodCrane_95 Start: 68063, Stop: 68383, Start Num: 38
Candidate Starts for IchabodCrane_95:
(Start: 38 @68063 has 84 MA's), (80, 68180), (104, 68321),

Gene: Idleandcovert_71 Start: 42858, Stop: 42592, Start Num: 66
Candidate Starts for Idleandcovert_71:
(Start: 66 @42858 has 8 MA's), (78, 42828), (100, 42726), (113, 42612),

Gene: Illumine_81 Start: 51912, Stop: 52184, Start Num: 52
Candidate Starts for Illumine_81:
(Start: 44 @51897 has 1 MA's), (Start: 52 @51912 has 148 MA's), (77, 51969), (78, 51972), (81, 51987), (86, 52005), (96, 52053), (100, 52074), (107, 52146), (109, 52155),

Gene: Inky_75 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for Inky_75:
(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: Isca_68 Start: 42335, Stop: 42066, Start Num: 65
Candidate Starts for Isca_68:
(20, 42500), (Start: 65 @42335 has 27 MA's), (78, 42305),

Gene: Iter_63 Start: 41678, Stop: 41992, Start Num: 54
Candidate Starts for Iter_63:
(Start: 54 @41678 has 70 MA's),

Gene: IttyBittyPiggy_62 Start: 39776, Stop: 40090, Start Num: 54

Candidate Starts for IttyBittyPiggy_62:
(Start: 54 @39776 has 70 MA's),

Gene: JAWS_74 Start: 50078, Stop: 50350, Start Num: 52
Candidate Starts for JAWS_74:
(Start: 44 @50063 has 1 MA's), (Start: 52 @50078 has 148 MA's), (77, 50132), (78, 50135), (81, 50150), (86, 50168), (96, 50216), (100, 50237), (107, 50309), (109, 50318),

Gene: JF1_40 Start: 31413, Stop: 31712, Start Num: 46
Candidate Starts for JF1_40:
(Start: 46 @31413 has 8 MA's), (61, 31449), (Start: 76 @31494 has 15 MA's), (80, 31512), (90, 31569), (100, 31602), (107, 31674),

Gene: JF2_68 Start: 41030, Stop: 40761, Start Num: 65
Candidate Starts for JF2_68:
(20, 41195), (Start: 65 @41030 has 27 MA's), (78, 41000),

Gene: JF4_68 Start: 41030, Stop: 40761, Start Num: 65
Candidate Starts for JF4_68:
(20, 41195), (Start: 65 @41030 has 27 MA's), (78, 41000),

Gene: JHC117_71 Start: 43060, Stop: 42839, Start Num: 76
Candidate Starts for JHC117_71:
(Start: 74 @43066 has 72 MA's), (Start: 76 @43060 has 15 MA's),

Gene: Jada_86 Start: 61861, Stop: 62166, Start Num: 41
Candidate Starts for Jada_86:
(Start: 41 @61861 has 32 MA's), (81, 61972), (102, 62074),

Gene: Janeemi_61 Start: 41291, Stop: 41602, Start Num: 54
Candidate Starts for Janeemi_61:
(34, 41237), (Start: 39 @41264 has 1 MA's), (Start: 54 @41291 has 70 MA's), (101, 41456),

Gene: Jankie_58 Start: 39043, Stop: 39342, Start Num: 62
Candidate Starts for Jankie_58:
(9, 38779), (10, 38782), (16, 38824), (Start: 62 @39043 has 2 MA's), (78, 39088), (96, 39172),

Gene: Jarvi_75 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for Jarvi_75:
(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: Jay2Jay_98 Start: 68903, Stop: 69223, Start Num: 38
Candidate Starts for Jay2Jay_98:
(Start: 38 @68903 has 84 MA's), (92, 69083),

Gene: Jayhawk_78 Start: 50578, Stop: 50850, Start Num: 52
Candidate Starts for Jayhawk_78:
(Start: 44 @50563 has 1 MA's), (Start: 52 @50578 has 148 MA's), (77, 50632), (78, 50635), (81, 50650), (86, 50668), (96, 50716), (100, 50737), (107, 50809), (109, 50818),

Gene: Jeckyll_75 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for Jeckyll_75:

(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: JenCasNa_76 Start: 43062, Stop: 42841, Start Num: 76
Candidate Starts for JenCasNa_76:
(Start: 74 @43068 has 72 MA's), (Start: 76 @43062 has 15 MA's),

Gene: JeppNRM_75 Start: 42886, Stop: 42662, Start Num: 74
Candidate Starts for JeppNRM_75:
(Start: 74 @42886 has 72 MA's), (Start: 76 @42880 has 15 MA's), (78, 42874),

Gene: JimJam_98 Start: 68437, Stop: 68757, Start Num: 38
Candidate Starts for JimJam_98:
(Start: 38 @68437 has 84 MA's), (80, 68554), (104, 68695),

Gene: Jobu08_71 Start: 42894, Stop: 42673, Start Num: 76
Candidate Starts for Jobu08_71:
(Start: 74 @42900 has 72 MA's), (Start: 76 @42894 has 15 MA's),

Gene: Joemato_63 Start: 41527, Stop: 41841, Start Num: 54
Candidate Starts for Joemato_63:
(Start: 54 @41527 has 70 MA's),

Gene: JohnDoe_63 Start: 41565, Stop: 41879, Start Num: 54
Candidate Starts for JohnDoe_63:
(Start: 54 @41565 has 70 MA's),

Gene: Jollison_97 Start: 68319, Stop: 68639, Start Num: 38
Candidate Starts for Jollison_97:
(Start: 38 @68319 has 84 MA's), (80, 68436), (104, 68577),

Gene: Joy99_76 Start: 50245, Stop: 50517, Start Num: 52
Candidate Starts for Joy99_76:
(Start: 44 @50230 has 1 MA's), (Start: 52 @50245 has 148 MA's), (77, 50299), (78, 50302), (81, 50317), (86, 50335), (96, 50383), (100, 50404), (107, 50476), (109, 50485),

Gene: Jstan_63 Start: 41180, Stop: 41491, Start Num: 54
Candidate Starts for Jstan_63:
(Start: 54 @41180 has 70 MA's),

Gene: Juliette_42 Start: 31572, Stop: 31871, Start Num: 46
Candidate Starts for Juliette_42:
(Start: 46 @31572 has 8 MA's), (61, 31608), (Start: 76 @31653 has 15 MA's), (80, 31671), (90, 31728), (100, 31761), (107, 31833),

Gene: JuneStar_62 Start: 42627, Stop: 42941, Start Num: 54
Candidate Starts for JuneStar_62:
(Start: 54 @42627 has 70 MA's),

Gene: KADY_72 Start: 43090, Stop: 42869, Start Num: 76
Candidate Starts for KADY_72:
(Start: 74 @43096 has 72 MA's), (Start: 76 @43090 has 15 MA's), (78, 43084),

Gene: Kachowdy_71 Start: 42819, Stop: 42553, Start Num: 65
Candidate Starts for Kachowdy_71:
(36, 42894), (Start: 65 @42819 has 27 MA's), (Start: 69 @42810 has 1 MA's), (78, 42789), (100, 42687),

Gene: Kalb97_75 Start: 42884, Stop: 42660, Start Num: 74
Candidate Starts for Kalb97_75:
(Start: 74 @42884 has 72 MA's), (Start: 76 @42878 has 15 MA's), (78, 42872),

Gene: Kalimba_58 Start: 37916, Stop: 38242, Start Num: 54
Candidate Starts for Kalimba_58:
(1, 37259), (3, 37499), (21, 37775), (32, 37838), (Start: 54 @37916 has 70 MA's), (81, 37994), (107, 38156), (114, 38204),

Gene: Kalnoky_75 Start: 42882, Stop: 42658, Start Num: 74
Candidate Starts for Kalnoky_75:
(Start: 74 @42882 has 72 MA's), (Start: 76 @42876 has 15 MA's), (78, 42870),

Gene: Karimac_97 Start: 68468, Stop: 68788, Start Num: 38
Candidate Starts for Karimac_97:
(Start: 38 @68468 has 84 MA's), (80, 68585), (104, 68726),

Gene: Karp_83 Start: 62256, Stop: 62564, Start Num: 41
Candidate Starts for Karp_83:
(Start: 41 @62256 has 32 MA's), (80, 62364), (81, 62367), (92, 62427), (102, 62469),

Gene: Kaylissa_64 Start: 41927, Stop: 42241, Start Num: 54
Candidate Starts for Kaylissa_64:
(Start: 54 @41927 has 70 MA's),

Gene: KeAlii_60 Start: 39873, Stop: 40187, Start Num: 54
Candidate Starts for KeAlii_60:
(Start: 39 @39846 has 1 MA's), (Start: 54 @39873 has 70 MA's),

Gene: Kenrey_87 Start: 61562, Stop: 61867, Start Num: 41
Candidate Starts for Kenrey_87:
(Start: 41 @61562 has 32 MA's), (81, 61673), (82, 61676), (88, 61697), (102, 61775),

Gene: KentuckyRacer_98 Start: 68252, Stop: 68572, Start Num: 38
Candidate Starts for KentuckyRacer_98:
(Start: 38 @68252 has 84 MA's), (80, 68369), (104, 68510),

Gene: Keshu_78 Start: 50490, Stop: 50765, Start Num: 52
Candidate Starts for Keshu_78:
(Start: 52 @50490 has 148 MA's), (Start: 59 @50505 has 5 MA's), (80, 50562), (81, 50565), (86, 50583), (100, 50652), (107, 50724), (109, 50733),

Gene: Kheparia_74 Start: 47626, Stop: 47898, Start Num: 52
Candidate Starts for Kheparia_74:
(Start: 44 @47611 has 1 MA's), (Start: 52 @47626 has 148 MA's), (77, 47683), (78, 47686), (80, 47698), (81, 47701), (86, 47719), (96, 47767), (100, 47788), (107, 47860), (109, 47869),

Gene: KiSi_78 Start: 50706, Stop: 50978, Start Num: 52

Candidate Starts for KiSi_78:
(Start: 44 @50691 has 1 MA's), (Start: 52 @50706 has 148 MA's), (Start: 59 @50721 has 5 MA's), (Start: 76 @50760 has 15 MA's), (77, 50763), (78, 50766), (80, 50778), (86, 50799), (99, 50865), (107, 50940),

Gene: Kraw_40 Start: 31339, Stop: 31638, Start Num: 45
Candidate Starts for Kraw_40:
(Start: 45 @31339 has 14 MA's), (61, 31375), (Start: 76 @31420 has 15 MA's), (80, 31438), (86, 31459), (90, 31495), (100, 31528), (107, 31600),

Gene: Krueger_80 Start: 50443, Stop: 50730, Start Num: 44
Candidate Starts for Krueger_80:
(Start: 44 @50443 has 1 MA's), (Start: 52 @50458 has 148 MA's), (Start: 59 @50473 has 5 MA's), (67, 50491), (78, 50518), (80, 50530), (86, 50551),

Gene: LBerry_76 Start: 43072, Stop: 42845, Start Num: 74
Candidate Starts for LBerry_76:
(Start: 74 @43072 has 72 MA's), (Start: 76 @43066 has 15 MA's),

Gene: Lambert1_70 Start: 42817, Stop: 42557, Start Num: 65
Candidate Starts for Lambert1_70:
(36, 42892), (Start: 65 @42817 has 27 MA's), (78, 42787), (113, 42571),

Gene: Larnav_94 Start: 68135, Stop: 68455, Start Num: 38
Candidate Starts for Larnav_94:
(Start: 38 @68135 has 84 MA's), (92, 68315), (104, 68393),

Gene: LarryKay_75 Start: 43097, Stop: 42870, Start Num: 74
Candidate Starts for LarryKay_75:
(Start: 74 @43097 has 72 MA's), (Start: 76 @43091 has 15 MA's),

Gene: LastHope_81 Start: 49802, Stop: 50086, Start Num: 52
Candidate Starts for LastHope_81:
(Start: 44 @49787 has 1 MA's), (Start: 52 @49802 has 148 MA's), (Start: 59 @49817 has 5 MA's), (77, 49859), (78, 49862), (80, 49874), (81, 49877), (86, 49895), (100, 49964), (107, 50036), (109, 50045), (112, 50075),

Gene: LaterM_75 Start: 50776, Stop: 51048, Start Num: 52
Candidate Starts for LaterM_75:
(Start: 44 @50761 has 1 MA's), (Start: 52 @50776 has 148 MA's), (77, 50833), (78, 50836), (81, 50851), (86, 50869), (100, 50938), (107, 51010), (109, 51019),

Gene: Lavahound_72 Start: 50802, Stop: 51077, Start Num: 52
Candidate Starts for Lavahound_72:
(Start: 44 @50787 has 1 MA's), (Start: 52 @50802 has 148 MA's), (Start: 59 @50817 has 5 MA's), (63, 50826), (78, 50862), (81, 50877), (86, 50895), (100, 50964),

Gene: LeMond_77 Start: 50310, Stop: 50582, Start Num: 52
Candidate Starts for LeMond_77:
(Start: 44 @50295 has 1 MA's), (Start: 52 @50310 has 148 MA's), (Start: 76 @50364 has 15 MA's), (78, 50370), (80, 50382), (86, 50403), (99, 50469), (107, 50544),

Gene: Lea83_76 Start: 50414, Stop: 50686, Start Num: 52

Candidate Starts for Lea83_76:
(Start: 52 @50414 has 148 MA's), (Start: 59 @50429 has 5 MA's), (77, 50471), (78, 50474), (81, 50489), (86, 50507), (100, 50576),

Gene: Lebo14_40 Start: 31428, Stop: 31727, Start Num: 45
Candidate Starts for Lebo14_40:
(Start: 45 @31428 has 14 MA's), (61, 31464), (Start: 76 @31509 has 15 MA's), (80, 31527), (86, 31548), (90, 31584), (100, 31617), (107, 31689),

Gene: Lego_62 Start: 41246, Stop: 41560, Start Num: 54
Candidate Starts for Lego_62:
(Start: 54 @41246 has 70 MA's),

Gene: Leo04_95 Start: 68650, Stop: 68970, Start Num: 38
Candidate Starts for Leo04_95:
(Start: 38 @68650 has 84 MA's), (92, 68830), (104, 68908),

Gene: Liandry_93 Start: 68287, Stop: 68607, Start Num: 38
Candidate Starts for Liandry_93:
(Start: 38 @68287 has 84 MA's), (81, 68407), (92, 68467), (104, 68545),

Gene: Liebe_64 Start: 43443, Stop: 43757, Start Num: 54
Candidate Starts for Liebe_64:
(Start: 54 @43443 has 70 MA's), (72, 43488), (78, 43506), (94, 43587), (115, 43734),

Gene: LilMartin_92 Start: 67059, Stop: 67379, Start Num: 38
Candidate Starts for LilMartin_92:
(Start: 38 @67059 has 84 MA's), (92, 67239), (104, 67317), (108, 67338),

Gene: LilPharaoh_63 Start: 46884, Stop: 47156, Start Num: 52
Candidate Starts for LilPharaoh_63:
(Start: 44 @46869 has 1 MA's), (Start: 52 @46884 has 148 MA's), (Start: 56 @46893 has 1 MA's), (Start: 66 @46914 has 8 MA's), (Start: 69 @46923 has 1 MA's), (77, 46941), (78, 46944), (80, 46956), (81, 46959), (86, 46977), (90, 47013), (95, 47025), (109, 47127),

Gene: LilSaint_93 Start: 67312, Stop: 67632, Start Num: 38
Candidate Starts for LilSaint_93:
(Start: 38 @67312 has 84 MA's), (92, 67492), (104, 67570),

Gene: Lilith_73 Start: 43061, Stop: 42834, Start Num: 74
Candidate Starts for Lilith_73:
(Start: 74 @43061 has 72 MA's), (Start: 76 @43055 has 15 MA's),

Gene: Limpid_82 Start: 61222, Stop: 61533, Start Num: 41
Candidate Starts for Limpid_82:
(Start: 41 @61222 has 32 MA's), (81, 61333), (92, 61393),

Gene: LindNT_74 Start: 50578, Stop: 50853, Start Num: 52
Candidate Starts for LindNT_74:
(Start: 44 @50563 has 1 MA's), (Start: 52 @50578 has 148 MA's), (77, 50635), (78, 50638), (80, 50650), (81, 50653), (86, 50671), (96, 50719), (100, 50740), (107, 50812), (109, 50821),

Gene: Lizalica_61 Start: 40721, Stop: 41032, Start Num: 54

Candidate Starts for Lizalica_61:
(Start: 54 @40721 has 70 MA's),

Gene: Llorens_75 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for Llorens_75:
(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: Lokum_75 Start: 50117, Stop: 50389, Start Num: 52
Candidate Starts for Lokum_75:
(Start: 44 @50102 has 1 MA's), (Start: 52 @50117 has 148 MA's), (77, 50171), (78, 50174), (81, 50189), (86, 50207), (96, 50255), (100, 50276), (107, 50348), (109, 50357),

Gene: London_62 Start: 41417, Stop: 41728, Start Num: 54
Candidate Starts for London_62:
(Start: 54 @41417 has 70 MA's),

Gene: Louie6_74 Start: 43098, Stop: 42871, Start Num: 74
Candidate Starts for Louie6_74:
(Start: 74 @43098 has 72 MA's), (Start: 76 @43092 has 15 MA's), (78, 43086),

Gene: Lowa_75 Start: 43060, Stop: 42833, Start Num: 74
Candidate Starts for Lowa_75:
(Start: 74 @43060 has 72 MA's), (Start: 76 @43054 has 15 MA's),

Gene: LugYA_78 Start: 43069, Stop: 42842, Start Num: 74
Candidate Starts for LugYA_78:
(Start: 74 @43069 has 72 MA's), (Start: 76 @43063 has 15 MA's),

Gene: LukeCage_97 Start: 68225, Stop: 68545, Start Num: 38
Candidate Starts for LukeCage_97:
(Start: 38 @68225 has 84 MA's), (80, 68342), (82, 68348), (108, 68504),

Gene: Lululemon_93 Start: 67531, Stop: 67851, Start Num: 38
Candidate Starts for Lululemon_93:
(Start: 38 @67531 has 84 MA's), (92, 67711), (104, 67789),

Gene: Lunahalos_75 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for Lunahalos_75:
(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: MA5_70 Start: 42239, Stop: 41970, Start Num: 65
Candidate Starts for MA5_70:
(20, 42404), (Start: 65 @42239 has 27 MA's), (78, 42209),

Gene: MK4_70 Start: 42314, Stop: 42045, Start Num: 65
Candidate Starts for MK4_70:
(20, 42479), (Start: 65 @42314 has 27 MA's), (78, 42284),

Gene: MaGuCo_57 Start: 41443, Stop: 41757, Start Num: 54
Candidate Starts for MaGuCo_57:
(Start: 54 @41443 has 70 MA's), (64, 41464), (72, 41488), (94, 41587), (115, 41734),

Gene: MacKat_72 Start: 46099, Stop: 46371, Start Num: 52
Candidate Starts for MacKat_72:
(Start: 44 @46084 has 1 MA's), (Start: 52 @46099 has 148 MA's), (77, 46156), (78, 46159), (81, 46174), (86, 46192), (96, 46240), (100, 46261), (107, 46333), (109, 46342),

Gene: MacnCheese_78 Start: 50941, Stop: 51216, Start Num: 52
Candidate Starts for MacnCheese_78:
(13, 50743), (24, 50824), (Start: 52 @50941 has 148 MA's), (67, 50971), (Start: 76 @50995 has 15 MA's), (80, 51013), (81, 51016), (86, 51034), (107, 51175),

Gene: MadMarie_73 Start: 43069, Stop: 42842, Start Num: 74
Candidate Starts for MadMarie_73:
(Start: 74 @43069 has 72 MA's), (Start: 76 @43063 has 15 MA's),

Gene: Mainiac_74 Start: 43061, Stop: 42834, Start Num: 74
Candidate Starts for Mainiac_74:
(Start: 74 @43061 has 72 MA's), (Start: 76 @43055 has 15 MA's),

Gene: Malinsilva_77 Start: 43060, Stop: 42833, Start Num: 74
Candidate Starts for Malinsilva_77:
(Start: 74 @43060 has 72 MA's), (Start: 76 @43054 has 15 MA's),

Gene: Malthus_41 Start: 31339, Stop: 31638, Start Num: 45
Candidate Starts for Malthus_41:
(Start: 45 @31339 has 14 MA's), (61, 31375), (Start: 76 @31420 has 15 MA's), (80, 31438), (86, 31459), (90, 31495), (100, 31528), (107, 31600),

Gene: Manu_74 Start: 42885, Stop: 42661, Start Num: 74
Candidate Starts for Manu_74:
(Start: 74 @42885 has 72 MA's), (Start: 76 @42879 has 15 MA's), (78, 42873),

Gene: MarQuardt_75 Start: 43064, Stop: 42843, Start Num: 76
Candidate Starts for MarQuardt_75:
(Start: 74 @43070 has 72 MA's), (Start: 76 @43064 has 15 MA's),

Gene: Marchesa_68 Start: 42769, Stop: 42503, Start Num: 65
Candidate Starts for Marchesa_68:
(36, 42844), (Start: 65 @42769 has 27 MA's), (Start: 69 @42760 has 1 MA's), (78, 42739), (100, 42637),

Gene: Marcoliusprime_78 Start: 52473, Stop: 52742, Start Num: 53
Candidate Starts for Marcoliusprime_78:
(22, 52350), (Start: 53 @52473 has 12 MA's), (60, 52488), (78, 52530), (86, 52563), (91, 52599), (100, 52632),

Gene: Margo_70 Start: 42843, Stop: 42583, Start Num: 65
Candidate Starts for Margo_70:
(36, 42918), (Start: 65 @42843 has 27 MA's), (78, 42813), (86, 42780), (113, 42597),

Gene: Marie_73 Start: 43068, Stop: 42841, Start Num: 74
Candidate Starts for Marie_73:
(Start: 74 @43068 has 72 MA's), (Start: 76 @43062 has 15 MA's),

Gene: Marius_75 Start: 42882, Stop: 42658, Start Num: 74
Candidate Starts for Marius_75:
(Start: 74 @42882 has 72 MA's), (Start: 76 @42876 has 15 MA's), (78, 42870),

Gene: MarkPhew_77 Start: 50195, Stop: 50467, Start Num: 52
Candidate Starts for MarkPhew_77:
(Start: 44 @50180 has 1 MA's), (Start: 52 @50195 has 148 MA's), (Start: 76 @50249 has 15 MA's), (78, 50255), (80, 50267), (81, 50270), (86, 50288), (99, 50354),

Gene: Marshawn_74 Start: 50588, Stop: 50860, Start Num: 52
Candidate Starts for Marshawn_74:
(Start: 44 @50573 has 1 MA's), (Start: 52 @50588 has 148 MA's), (67, 50621), (79, 50657), (109, 50831),

Gene: Marsus_93 Start: 67308, Stop: 67628, Start Num: 38
Candidate Starts for Marsus_93:
(Start: 38 @67308 has 84 MA's), (92, 67488), (104, 67566),

Gene: MaryV_133 Start: 66927, Stop: 66649, Start Num: 59
Candidate Starts for MaryV_133:
(14, 67134), (28, 67044), (Start: 59 @66927 has 5 MA's), (75, 66882), (87, 66831), (102, 66750), (103, 66729), (112, 66657), (113, 66654),

Gene: Maupel_85 Start: 61348, Stop: 61653, Start Num: 41
Candidate Starts for Maupel_85:
(Start: 41 @61348 has 32 MA's), (81, 61459), (102, 61561),

Gene: Maureen_64 Start: 43442, Stop: 43756, Start Num: 54
Candidate Starts for Maureen_64:
(Start: 54 @43442 has 70 MA's), (72, 43487), (78, 43505), (94, 43586), (115, 43733),

Gene: McMater_76 Start: 50287, Stop: 50565, Start Num: 52
Candidate Starts for McMater_76:
(Start: 44 @50272 has 1 MA's), (Start: 52 @50287 has 148 MA's), (Start: 56 @50296 has 1 MA's), (Start: 69 @50326 has 1 MA's), (77, 50344), (78, 50347), (81, 50362), (86, 50380), (107, 50521),

Gene: Mdavu_63 Start: 47160, Stop: 47432, Start Num: 52
Candidate Starts for Mdavu_63:
(Start: 44 @47145 has 1 MA's), (Start: 52 @47160 has 148 MA's), (Start: 56 @47169 has 1 MA's), (Start: 66 @47190 has 8 MA's), (Start: 69 @47199 has 1 MA's), (77, 47217), (78, 47220), (80, 47232), (81, 47235), (86, 47253), (90, 47289), (95, 47301), (109, 47403),

Gene: MeaningOfLife_77 Start: 51068, Stop: 51340, Start Num: 52
Candidate Starts for MeaningOfLife_77:
(Start: 44 @51053 has 1 MA's), (Start: 52 @51068 has 148 MA's), (77, 51125), (78, 51128), (81, 51143), (86, 51161), (100, 51230), (107, 51302), (109, 51311),

Gene: MeganTheeKilla_84 Start: 60709, Stop: 61014, Start Num: 41
Candidate Starts for MeganTheeKilla_84:
(Start: 41 @60709 has 32 MA's), (81, 60820), (102, 60922),

Gene: Megsy_77 Start: 50206, Stop: 50481, Start Num: 52

Candidate Starts for Megsy_77:
(Start: 44 @50191 has 1 MA's), (Start: 52 @50206 has 148 MA's), (77, 50263), (78, 50266), (81, 50281), (86, 50299), (96, 50347), (100, 50368), (107, 50440), (109, 50449),

Gene: Methuselah_68 Start: 43092, Stop: 42865, Start Num: 74
Candidate Starts for Methuselah_68:
(Start: 74 @43092 has 72 MA's), (Start: 76 @43086 has 15 MA's),

Gene: Michkear_66 Start: 44244, Stop: 44549, Start Num: 54
Candidate Starts for Michkear_66:
(Start: 54 @44244 has 70 MA's),

Gene: Microwolf_71 Start: 43084, Stop: 42857, Start Num: 74
Candidate Starts for Microwolf_71:
(Start: 74 @43084 has 72 MA's), (Start: 76 @43078 has 15 MA's),

Gene: Mildred21_93 Start: 67285, Stop: 67605, Start Num: 38
Candidate Starts for Mildred21_93:
(Start: 38 @67285 has 84 MA's), (81, 67405), (92, 67465), (104, 67543),

Gene: Milly_79 Start: 52464, Stop: 52733, Start Num: 53
Candidate Starts for Milly_79:
(22, 52341), (Start: 53 @52464 has 12 MA's), (60, 52479), (78, 52521), (86, 52554), (91, 52590), (100, 52623),

Gene: MindFlayer_95 Start: 67970, Stop: 68290, Start Num: 38
Candidate Starts for MindFlayer_95:
(Start: 38 @67970 has 84 MA's), (80, 68087), (104, 68228),

Gene: Misomonster_76 Start: 43095, Stop: 42868, Start Num: 74
Candidate Starts for Misomonster_76:
(Start: 74 @43095 has 72 MA's), (Start: 76 @43089 has 15 MA's), (78, 43083),

Gene: MissDaisy_39 Start: 31179, Stop: 31466, Start Num: 46
Candidate Starts for MissDaisy_39:
(Start: 46 @31179 has 8 MA's), (61, 31215), (Start: 76 @31248 has 15 MA's), (78, 31254), (80, 31266), (86, 31287), (90, 31323), (100, 31356), (107, 31428),

Gene: MissSwiss_63 Start: 40182, Stop: 40493, Start Num: 54
Candidate Starts for MissSwiss_63:
(Start: 54 @40182 has 70 MA's),

Gene: Mitti_40 Start: 31340, Stop: 31639, Start Num: 45
Candidate Starts for Mitti_40:
(Start: 45 @31340 has 14 MA's), (61, 31376), (Start: 76 @31421 has 15 MA's), (80, 31439), (86, 31460), (90, 31496), (100, 31529), (107, 31601),

Gene: Moab_85 Start: 62621, Stop: 62929, Start Num: 41
Candidate Starts for Moab_85:
(Start: 41 @62621 has 32 MA's), (81, 62732),

Gene: MoneyMay_74 Start: 43068, Stop: 42841, Start Num: 74
Candidate Starts for MoneyMay_74:

(Start: 74 @43068 has 72 MA's), (Start: 76 @43062 has 15 MA's),

Gene: Montavir_70 Start: 43068, Stop: 42841, Start Num: 74
Candidate Starts for Montavir_70:
(Start: 74 @43068 has 72 MA's), (Start: 76 @43062 has 15 MA's),

Gene: Moss_58 Start: 38016, Stop: 38342, Start Num: 54
Candidate Starts for Moss_58:
(32, 37938), (Start: 54 @38016 has 70 MA's), (81, 38094), (107, 38256),

Gene: MrMagoo_154 Start: 73559, Stop: 73254, Start Num: 57
Candidate Starts for MrMagoo_154:
(Start: 57 @73559 has 7 MA's), (82, 73478),

Gene: MuchMore_78 Start: 43060, Stop: 42833, Start Num: 74
Candidate Starts for MuchMore_78:
(Start: 74 @43060 has 72 MA's), (Start: 76 @43054 has 15 MA's),

Gene: Mudpuppy_60 Start: 41493, Stop: 41807, Start Num: 54
Candidate Starts for Mudpuppy_60:
(Start: 54 @41493 has 70 MA's),

Gene: Mufasa_78 Start: 51931, Stop: 52200, Start Num: 53
Candidate Starts for Mufasa_78:
(22, 51808), (37, 51892), (Start: 53 @51931 has 12 MA's), (78, 51988), (86, 52021), (91, 52057), (100, 52090), (107, 52162),

Gene: Mugiwara_97 Start: 68724, Stop: 69044, Start Num: 38
Candidate Starts for Mugiwara_97:
(Start: 38 @68724 has 84 MA's), (80, 68841), (104, 68982),

Gene: MulchMansion_92 Start: 67059, Stop: 67379, Start Num: 38
Candidate Starts for MulchMansion_92:
(Start: 38 @67059 has 84 MA's), (92, 67239), (104, 67317), (108, 67338),

Gene: Muntaha_77 Start: 60800, Stop: 61114, Start Num: 41
Candidate Starts for Muntaha_77:
(Start: 41 @60800 has 32 MA's), (89, 60950),

Gene: Murucutumbu_76 Start: 51352, Stop: 51627, Start Num: 52
Candidate Starts for Murucutumbu_76:
(Start: 44 @51337 has 1 MA's), (Start: 52 @51352 has 148 MA's), (77, 51409), (78, 51412), (81, 51427), (86, 51445), (100, 51514), (107, 51586), (109, 51595),

Gene: Mynx_77 Start: 50847, Stop: 51119, Start Num: 52
Candidate Starts for Mynx_77:
(Start: 44 @50832 has 1 MA's), (Start: 52 @50847 has 148 MA's), (77, 50901), (78, 50904), (81, 50919), (86, 50937), (96, 50985), (100, 51006), (107, 51078), (109, 51087),

Gene: Mysterium_57 Start: 37857, Stop: 38183, Start Num: 54
Candidate Starts for Mysterium_57:
(29, 37758), (32, 37779), (Start: 54 @37857 has 70 MA's), (81, 37935), (107, 38097),

Gene: Nanosmite_147 Start: 72834, Stop: 72535, Start Num: 57
Candidate Starts for Nanosmite_147:
(43, 72867), (Start: 57 @72834 has 7 MA's), (83, 72753), (88, 72735), (102, 72660), (106, 72603),

Gene: Navo_92 Start: 68206, Stop: 68526, Start Num: 38
Candidate Starts for Navo_92:
(Start: 38 @68206 has 84 MA's), (81, 68326), (92, 68386), (104, 68464),

Gene: Nergal_67 Start: 46690, Stop: 46941, Start Num: 53
Candidate Starts for Nergal_67:
(37, 46651), (Start: 53 @46690 has 12 MA's), (78, 46747), (80, 46759), (110, 46933),

Gene: Nibb_77 Start: 50011, Stop: 50283, Start Num: 52
Candidate Starts for Nibb_77:
(Start: 44 @49996 has 1 MA's), (Start: 52 @50011 has 148 MA's), (Start: 76 @50065 has 15 MA's),
(78, 50071), (80, 50083), (86, 50104), (99, 50170),

Gene: NiceHouse_101 Start: 73108, Stop: 73398, Start Num: 40
Candidate Starts for NiceHouse_101:
(Start: 40 @73108 has 1 MA's), (84, 73219), (85, 73222), (104, 73345),

Gene: Nikao_65 Start: 49769, Stop: 50041, Start Num: 52
Candidate Starts for Nikao_65:
(Start: 44 @49754 has 1 MA's), (Start: 52 @49769 has 148 MA's), (Start: 56 @49778 has 1 MA's),
(Start: 66 @49799 has 8 MA's), (Start: 69 @49808 has 1 MA's), (77, 49826), (78, 49829), (80, 49841),
(81, 49844), (86, 49862), (90, 49898), (95, 49910), (109, 50012),

Gene: Niklas_77 Start: 50348, Stop: 50626, Start Num: 52
Candidate Starts for Niklas_77:
(Start: 44 @50333 has 1 MA's), (Start: 52 @50348 has 148 MA's), (Start: 56 @50357 has 1 MA's),
(Start: 69 @50387 has 1 MA's), (77, 50405), (78, 50408), (81, 50423), (86, 50441), (107, 50582),

Gene: Niobe_62 Start: 41420, Stop: 41731, Start Num: 54
Candidate Starts for Niobe_62:
(Start: 54 @41420 has 70 MA's),

Gene: Nitro_63 Start: 42114, Stop: 42428, Start Num: 54
Candidate Starts for Nitro_63:
(Start: 54 @42114 has 70 MA's),

Gene: Noella_70 Start: 42818, Stop: 42558, Start Num: 65
Candidate Starts for Noella_70:
(36, 42893), (Start: 65 @42818 has 27 MA's), (78, 42788), (113, 42572),

Gene: Nolwazi_41 Start: 31339, Stop: 31638, Start Num: 46
Candidate Starts for Nolwazi_41:
(Start: 46 @31339 has 8 MA's), (61, 31375), (Start: 76 @31420 has 15 MA's), (80, 31438), (90, 31495),
(100, 31528), (107, 31600),

Gene: NootNoot_90 Start: 67201, Stop: 67521, Start Num: 38
Candidate Starts for NootNoot_90:
(Start: 38 @67201 has 84 MA's), (81, 67321), (92, 67381), (104, 67459),

Gene: Norbert_66 Start: 42816, Stop: 42568, Start Num: 65
Candidate Starts for Norbert_66:
(36, 42891), (Start: 65 @42816 has 27 MA's), (78, 42786),

Gene: Nova53_84 Start: 68111, Stop: 68410, Start Num: 42
Candidate Starts for Nova53_84:
(Start: 42 @68111 has 1 MA's), (Start: 76 @68195 has 15 MA's), (102, 68318),

Gene: November_72 Start: 50276, Stop: 50551, Start Num: 52
Candidate Starts for November_72:
(7, 50015), (12, 50078), (18, 50135), (23, 50159), (Start: 52 @50276 has 148 MA's), (81, 50351), (86, 50369), (100, 50438),

Gene: Nutello_62 Start: 47156, Stop: 47428, Start Num: 52
Candidate Starts for Nutello_62:
(Start: 44 @47141 has 1 MA's), (Start: 52 @47156 has 148 MA's), (Start: 56 @47165 has 1 MA's), (Start: 66 @47186 has 8 MA's), (Start: 69 @47195 has 1 MA's), (77, 47213), (78, 47216), (80, 47228), (81, 47231), (86, 47249), (90, 47285), (95, 47297), (109, 47399),

Gene: ObiToo_67 Start: 41757, Stop: 42068, Start Num: 54
Candidate Starts for ObiToo_67:
(Start: 54 @41757 has 70 MA's),

Gene: OlanP_73 Start: 43058, Stop: 42834, Start Num: 74
Candidate Starts for OlanP_73:
(Start: 74 @43058 has 72 MA's), (Start: 76 @43052 has 15 MA's), (78, 43046),

Gene: Ollie_75 Start: 42939, Stop: 42712, Start Num: 74
Candidate Starts for Ollie_75:
(Start: 74 @42939 has 72 MA's), (Start: 76 @42933 has 15 MA's),

Gene: OmniCritical_39 Start: 31324, Stop: 31623, Start Num: 45
Candidate Starts for OmniCritical_39:
(Start: 45 @31324 has 14 MA's), (61, 31360), (Start: 76 @31405 has 15 MA's), (80, 31423), (86, 31444), (90, 31480), (100, 31513), (107, 31585),

Gene: Oscar_77 Start: 50230, Stop: 50502, Start Num: 52
Candidate Starts for Oscar_77:
(Start: 44 @50215 has 1 MA's), (Start: 52 @50230 has 148 MA's), (Start: 76 @50284 has 15 MA's), (78, 50290), (80, 50302), (86, 50323), (99, 50389), (107, 50464),

Gene: P28Green_75 Start: 43071, Stop: 42844, Start Num: 74
Candidate Starts for P28Green_75:
(Start: 74 @43071 has 72 MA's), (Start: 76 @43065 has 15 MA's),

Gene: PGHhamlin_77 Start: 43060, Stop: 42833, Start Num: 74
Candidate Starts for PGHhamlin_77:
(Start: 74 @43060 has 72 MA's), (Start: 76 @43054 has 15 MA's),

Gene: PacManQ_93 Start: 67531, Stop: 67851, Start Num: 38
Candidate Starts for PacManQ_93:
(Start: 38 @67531 has 84 MA's), (92, 67711), (104, 67789),

Gene: Padfoot_75 Start: 50313, Stop: 50585, Start Num: 52
Candidate Starts for Padfoot_75:
(Start: 44 @50298 has 1 MA's), (Start: 52 @50313 has 148 MA's), (77, 50367), (78, 50370), (81, 50385), (86, 50403), (96, 50451), (100, 50472), (107, 50544), (109, 50553),

Gene: Padpat_79 Start: 50552, Stop: 50824, Start Num: 52
Candidate Starts for Padpat_79:
(Start: 44 @50537 has 1 MA's), (Start: 52 @50552 has 148 MA's), (77, 50606), (78, 50609), (81, 50624), (86, 50642), (96, 50690), (100, 50711), (107, 50783), (109, 50792),

Gene: Panamaxus_68 Start: 42817, Stop: 42557, Start Num: 65
Candidate Starts for Panamaxus_68:
(36, 42892), (Start: 65 @42817 has 27 MA's), (78, 42787), (113, 42571),

Gene: PandaPo_63 Start: 40189, Stop: 40500, Start Num: 54
Candidate Starts for PandaPo_63:
(Start: 54 @40189 has 70 MA's),

Gene: Paradiddles_90 Start: 67465, Stop: 67785, Start Num: 38
Candidate Starts for Paradiddles_90:
(Start: 38 @67465 has 84 MA's), (81, 67585), (92, 67645), (104, 67723),

Gene: Patelgo_85 Start: 62784, Stop: 63092, Start Num: 41
Candidate Starts for Patelgo_85:
(Start: 41 @62784 has 32 MA's), (81, 62895),

Gene: Patt_39 Start: 31155, Stop: 31442, Start Num: 46
Candidate Starts for Patt_39:
(Start: 46 @31155 has 8 MA's), (61, 31191), (Start: 76 @31224 has 15 MA's), (78, 31230), (80, 31242), (86, 31263), (90, 31299), (100, 31332), (107, 31404),

Gene: Pawn_73 Start: 42889, Stop: 42665, Start Num: 74
Candidate Starts for Pawn_73:
(Start: 74 @42889 has 72 MA's), (Start: 76 @42883 has 15 MA's), (78, 42877),

Gene: Peanam_77 Start: 50306, Stop: 50584, Start Num: 52
Candidate Starts for Peanam_77:
(Start: 44 @50291 has 1 MA's), (Start: 52 @50306 has 148 MA's), (Start: 56 @50315 has 1 MA's), (Start: 69 @50345 has 1 MA's), (77, 50363), (78, 50366), (81, 50381), (86, 50399), (107, 50540),

Gene: Peebs_93 Start: 67885, Stop: 68205, Start Num: 38
Candidate Starts for Peebs_93:
(Start: 38 @67885 has 84 MA's), (92, 68065), (104, 68143),

Gene: Peel_75 Start: 50118, Stop: 50390, Start Num: 52
Candidate Starts for Peel_75:
(Start: 44 @50103 has 1 MA's), (Start: 52 @50118 has 148 MA's), (77, 50172), (78, 50175), (81, 50190), (86, 50208), (96, 50256), (100, 50277), (107, 50349), (109, 50358),

Gene: Pembroke_75 Start: 43069, Stop: 42842, Start Num: 74
Candidate Starts for Pembroke_75:
(Start: 74 @43069 has 72 MA's), (Start: 76 @43063 has 15 MA's),

Gene: Penny1_75 Start: 43072, Stop: 42845, Start Num: 74
Candidate Starts for Penny1_75:
(Start: 74 @43072 has 72 MA's), (Start: 76 @43066 has 15 MA's),

Gene: Pepperwood_94 Start: 68018, Stop: 68338, Start Num: 38
Candidate Starts for Pepperwood_94:
(Start: 38 @68018 has 84 MA's), (92, 68198), (104, 68276),

Gene: Peregrin_110 Start: 68566, Stop: 68856, Start Num: 48
Candidate Starts for Peregrin_110:
(Start: 48 @68566 has 3 MA's), (92, 68716),

Gene: Persimmon_93 Start: 67134, Stop: 67454, Start Num: 38
Candidate Starts for Persimmon_93:
(Start: 38 @67134 has 84 MA's), (81, 67254), (92, 67314), (104, 67392),

Gene: Phantastic_72 Start: 42500, Stop: 42231, Start Num: 65
Candidate Starts for Phantastic_72:
(20, 42665), (Start: 65 @42500 has 27 MA's), (78, 42470),

Gene: Pharb_74 Start: 49614, Stop: 49889, Start Num: 52
Candidate Starts for Pharb_74:
(13, 49416), (19, 49473), (24, 49497), (Start: 52 @49614 has 148 MA's), (Start: 59 @49629 has 5 MA's), (67, 49647), (Start: 69 @49653 has 1 MA's), (77, 49671), (78, 49674), (80, 49686), (81, 49689), (86, 49707), (100, 49776), (107, 49848), (109, 49857),

Gene: PhelpsODU_78 Start: 50059, Stop: 50331, Start Num: 52
Candidate Starts for PhelpsODU_78:
(32, 49996), (Start: 44 @50044 has 1 MA's), (Start: 52 @50059 has 148 MA's), (78, 50119), (80, 50131), (86, 50152),

Gene: PhishRPhriends_71 Start: 42066, Stop: 41842, Start Num: 74
Candidate Starts for PhishRPhriends_71:
(Start: 74 @42066 has 72 MA's), (Start: 76 @42060 has 15 MA's), (78, 42054),

Gene: Phives_63 Start: 41905, Stop: 42216, Start Num: 54
Candidate Starts for Phives_63:
(Start: 54 @41905 has 70 MA's),

Gene: Phoebe_76 Start: 43061, Stop: 42834, Start Num: 74
Candidate Starts for Phoebe_76:
(Start: 74 @43061 has 72 MA's), (Start: 76 @43055 has 15 MA's),

Gene: Phoxy_75 Start: 43087, Stop: 42866, Start Num: 76
Candidate Starts for Phoxy_75:
(Start: 74 @43093 has 72 MA's), (Start: 76 @43087 has 15 MA's),

Gene: Phrank_79 Start: 49919, Stop: 50191, Start Num: 52
Candidate Starts for Phrank_79:
(Start: 44 @49904 has 1 MA's), (Start: 52 @49919 has 148 MA's), (78, 49979), (86, 50012),

Gene: Phredrick_85 Start: 60642, Stop: 60947, Start Num: 41
Candidate Starts for Phredrick_85:

(Start: 41 @60642 has 32 MA's), (81, 60753), (82, 60756), (88, 60777), (102, 60855),

Gene: Piatt_74 Start: 50313, Stop: 50585, Start Num: 52
Candidate Starts for Piatt_74:
(Start: 44 @50298 has 1 MA's), (Start: 52 @50313 has 148 MA's), (77, 50367), (78, 50370), (81, 50385), (86, 50403), (96, 50451), (100, 50472), (107, 50544), (109, 50553),

Gene: PinkiePie_93 Start: 68287, Stop: 68607, Start Num: 38
Candidate Starts for PinkiePie_93:
(Start: 38 @68287 has 84 MA's), (81, 68407), (92, 68467), (104, 68545),

Gene: Pisa1_73 Start: 50611, Stop: 50883, Start Num: 52
Candidate Starts for Pisa1_73:
(Start: 44 @50596 has 1 MA's), (Start: 52 @50611 has 148 MA's), (77, 50668), (78, 50671), (80, 50683), (81, 50686), (86, 50704), (96, 50752), (100, 50773), (107, 50845), (109, 50854),

Gene: Pisa4_67 Start: 45980, Stop: 46252, Start Num: 52
Candidate Starts for Pisa4_67:
(Start: 44 @45965 has 1 MA's), (Start: 52 @45980 has 148 MA's), (77, 46037), (78, 46040), (80, 46052), (81, 46055), (86, 46073), (96, 46121), (100, 46142), (107, 46214), (109, 46223),

Gene: Pistachio_70 Start: 42405, Stop: 42139, Start Num: 66
Candidate Starts for Pistachio_70:
(Start: 66 @42405 has 8 MA's), (78, 42375), (100, 42273), (113, 42159),

Gene: Pixelle_62 Start: 42519, Stop: 42833, Start Num: 54
Candidate Starts for Pixelle_62:
(Start: 39 @42492 has 1 MA's), (Start: 54 @42519 has 70 MA's),

Gene: Pixie_75 Start: 49917, Stop: 50186, Start Num: 52
Candidate Starts for Pixie_75:
(Start: 52 @49917 has 148 MA's), (Start: 59 @49932 has 5 MA's), (80, 49986), (81, 49989), (86, 50007), (100, 50076),

Gene: Pocahontas_69 Start: 42814, Stop: 42554, Start Num: 65
Candidate Starts for Pocahontas_69:
(36, 42889), (Start: 65 @42814 has 27 MA's), (78, 42784), (113, 42568),

Gene: Pokerus_76 Start: 50561, Stop: 50833, Start Num: 52
Candidate Starts for Pokerus_76:
(Start: 44 @50546 has 1 MA's), (Start: 52 @50561 has 148 MA's), (77, 50615), (78, 50618), (81, 50633), (86, 50651), (96, 50699), (100, 50720), (107, 50792), (109, 50801),

Gene: Popcicle_70 Start: 42814, Stop: 42554, Start Num: 65
Candidate Starts for Popcicle_70:
(36, 42889), (Start: 65 @42814 has 27 MA's), (78, 42784), (113, 42568),

Gene: PotatoSplit_76 Start: 43072, Stop: 42845, Start Num: 74
Candidate Starts for PotatoSplit_76:
(Start: 74 @43072 has 72 MA's), (Start: 76 @43066 has 15 MA's),

Gene: Powerpuff_64 Start: 42450, Stop: 42764, Start Num: 54
Candidate Starts for Powerpuff_64:

(Start: 54 @42450 has 70 MA's),

Gene: Prithvi_78 Start: 50578, Stop: 50853, Start Num: 52
Candidate Starts for Prithvi_78:
(Start: 44 @50563 has 1 MA's), (Start: 52 @50578 has 148 MA's), (77, 50635), (78, 50638), (80, 50650), (81, 50653), (86, 50671), (96, 50719), (100, 50740), (107, 50812), (109, 50821),

Gene: PumpkinSpice_97 Start: 68362, Stop: 68682, Start Num: 38
Candidate Starts for PumpkinSpice_97:
(Start: 38 @68362 has 84 MA's), (80, 68479), (104, 68620),

Gene: Pumpkins_61 Start: 42050, Stop: 42364, Start Num: 54
Candidate Starts for Pumpkins_61:
(Start: 54 @42050 has 70 MA's),

Gene: Puppy_71 Start: 42477, Stop: 42211, Start Num: 66
Candidate Starts for Puppy_71:
(Start: 66 @42477 has 8 MA's), (78, 42447), (100, 42345), (113, 42231),

Gene: PurpleHaze_74 Start: 42878, Stop: 42660, Start Num: 76
Candidate Starts for PurpleHaze_74:
(Start: 74 @42884 has 72 MA's), (Start: 76 @42878 has 15 MA's), (78, 42872),

Gene: PynkPanther_93 Start: 68267, Stop: 68587, Start Num: 38
Candidate Starts for PynkPanther_93:
(Start: 38 @68267 has 84 MA's), (81, 68387), (92, 68447), (104, 68525),

Gene: Qhanda_41 Start: 31436, Stop: 31735, Start Num: 45
Candidate Starts for Qhanda_41:
(Start: 45 @31436 has 14 MA's), (61, 31472), (Start: 76 @31517 has 15 MA's), (80, 31535), (86, 31556), (90, 31592), (100, 31625), (107, 31697),

Gene: Quaran19_97 Start: 68353, Stop: 68673, Start Num: 38
Candidate Starts for Quaran19_97:
(Start: 38 @68353 has 84 MA's), (80, 68470), (104, 68611),

Gene: QuincyRose_73 Start: 50523, Stop: 50792, Start Num: 52
Candidate Starts for QuincyRose_73:
(Start: 44 @50508 has 1 MA's), (Start: 52 @50523 has 148 MA's), (77, 50577), (78, 50580), (81, 50595), (86, 50613), (96, 50661), (100, 50682), (107, 50754), (109, 50763),

Gene: QuinnKiro_69 Start: 42817, Stop: 42557, Start Num: 65
Candidate Starts for QuinnKiro_69:
(36, 42892), (Start: 65 @42817 has 27 MA's), (78, 42787), (113, 42571),

Gene: Ramen_76 Start: 49882, Stop: 50154, Start Num: 52
Candidate Starts for Ramen_76:
(Start: 44 @49867 has 1 MA's), (Start: 52 @49882 has 148 MA's), (78, 49939), (81, 49954), (86, 49972), (96, 50020), (100, 50041), (107, 50113), (109, 50122),

Gene: Rapunzel97_78 Start: 50533, Stop: 50805, Start Num: 52
Candidate Starts for Rapunzel97_78:

(Start: 44 @50518 has 1 MA's), (Start: 52 @50533 has 148 MA's), (77, 50587), (78, 50590), (81, 50605), (86, 50623), (96, 50671), (100, 50692), (107, 50764), (109, 50773),

Gene: Reedo_63 Start: 40030, Stop: 40344, Start Num: 54
Candidate Starts for Reedo_63:
(Start: 54 @40030 has 70 MA's), (116, 40339),

Gene: Reptar3000_40 Start: 31146, Stop: 31433, Start Num: 46
Candidate Starts for Reptar3000_40:
(Start: 46 @31146 has 8 MA's), (61, 31182), (Start: 76 @31215 has 15 MA's), (78, 31221), (80, 31233), (86, 31254), (90, 31290), (100, 31323), (107, 31395),

Gene: ResDef_68 Start: 42817, Stop: 42557, Start Num: 65
Candidate Starts for ResDef_68:
(36, 42892), (Start: 65 @42817 has 27 MA's), (78, 42787), (113, 42571),

Gene: Rey_153 Start: 72809, Stop: 72504, Start Num: 57
Candidate Starts for Rey_153:
(Start: 57 @72809 has 7 MA's), (82, 72728), (86, 72713),

Gene: Richo_76 Start: 50287, Stop: 50565, Start Num: 52
Candidate Starts for Richo_76:
(Start: 44 @50272 has 1 MA's), (Start: 52 @50287 has 148 MA's), (Start: 56 @50296 has 1 MA's), (Start: 69 @50326 has 1 MA's), (77, 50344), (78, 50347), (81, 50362), (86, 50380), (107, 50521),

Gene: Rikishi_97 Start: 68268, Stop: 68588, Start Num: 38
Candidate Starts for Rikishi_97:
(Start: 38 @68268 has 84 MA's), (80, 68385), (104, 68526),

Gene: Riptide_91 Start: 66856, Stop: 67176, Start Num: 38
Candidate Starts for Riptide_91:
(Start: 38 @66856 has 84 MA's), (92, 67036), (104, 67114),

Gene: RockScotty_57 Start: 37852, Stop: 38178, Start Num: 54
Candidate Starts for RockScotty_57:
(29, 37753), (32, 37774), (Start: 54 @37852 has 70 MA's), (81, 37930), (107, 38092),

Gene: Rockstar_69 Start: 42323, Stop: 42054, Start Num: 65
Candidate Starts for Rockstar_69:
(20, 42488), (Start: 65 @42323 has 27 MA's), (78, 42293),

Gene: Roimos_68 Start: 42699, Stop: 42433, Start Num: 65
Candidate Starts for Roimos_68:
(36, 42774), (Start: 65 @42699 has 27 MA's), (78, 42669), (100, 42567),

Gene: Rosmarinus_75 Start: 50104, Stop: 50376, Start Num: 52
Candidate Starts for Rosmarinus_75:
(Start: 44 @50089 has 1 MA's), (Start: 52 @50104 has 148 MA's), (77, 50158), (78, 50161), (81, 50176), (86, 50194), (96, 50242), (100, 50263), (107, 50335), (109, 50344),

Gene: Rummer_74 Start: 43096, Stop: 42869, Start Num: 74
Candidate Starts for Rummer_74:
(Start: 74 @43096 has 72 MA's), (Start: 76 @43090 has 15 MA's),

Gene: Ruthiejr_41 Start: 31304, Stop: 31603, Start Num: 46
Candidate Starts for Ruthiejr_41:
(Start: 46 @31304 has 8 MA's), (61, 31340), (Start: 76 @31385 has 15 MA's), (80, 31403), (90, 31460), (100, 31493), (107, 31565),

Gene: Sabia_73 Start: 43076, Stop: 42849, Start Num: 74
Candidate Starts for Sabia_73:
(Start: 74 @43076 has 72 MA's), (Start: 76 @43070 has 15 MA's),

Gene: Sabinator_73 Start: 43061, Stop: 42840, Start Num: 76
Candidate Starts for Sabinator_73:
(Start: 74 @43067 has 72 MA's), (Start: 76 @43061 has 15 MA's),

Gene: Sabourin_58 Start: 37917, Stop: 38243, Start Num: 54
Candidate Starts for Sabourin_58:
(1, 37260), (21, 37776), (32, 37839), (Start: 54 @37917 has 70 MA's), (81, 37995), (107, 38157), (114, 38205),

Gene: SaltySpitoon_97 Start: 68362, Stop: 68682, Start Num: 38
Candidate Starts for SaltySpitoon_97:
(Start: 38 @68362 has 84 MA's), (80, 68479), (104, 68620),

Gene: SamScheppers_39 Start: 31818, Stop: 32117, Start Num: 45
Candidate Starts for SamScheppers_39:
(Start: 45 @31818 has 14 MA's), (61, 31854), (Start: 76 @31899 has 15 MA's), (80, 31917), (86, 31938), (90, 31974), (100, 32007), (107, 32079),

Gene: Samisti12_94 Start: 69327, Stop: 69647, Start Num: 38
Candidate Starts for Samisti12_94:
(Start: 38 @69327 has 84 MA's), (92, 69507), (104, 69585),

Gene: SamuelLPlaqson_75 Start: 50512, Stop: 50781, Start Num: 52
Candidate Starts for SamuelLPlaqson_75:
(Start: 44 @50497 has 1 MA's), (Start: 52 @50512 has 148 MA's), (77, 50563), (78, 50566), (80, 50578), (81, 50581), (86, 50599), (96, 50647), (100, 50668), (107, 50740), (109, 50749),

Gene: SaturnRing_70 Start: 42858, Stop: 42592, Start Num: 66
Candidate Starts for SaturnRing_70:
(Start: 66 @42858 has 8 MA's), (78, 42828), (100, 42726), (113, 42612),

Gene: Scarlett_78 Start: 50566, Stop: 50838, Start Num: 52
Candidate Starts for Scarlett_78:
(Start: 44 @50551 has 1 MA's), (Start: 52 @50566 has 148 MA's), (Start: 59 @50581 has 5 MA's), (Start: 76 @50620 has 15 MA's), (77, 50623), (78, 50626), (80, 50638), (86, 50659), (99, 50725), (107, 50800),

Gene: Schaffner_61 Start: 41733, Stop: 42047, Start Num: 54
Candidate Starts for Schaffner_61:
(Start: 54 @41733 has 70 MA's),

Gene: Scheme_95 Start: 68732, Stop: 69052, Start Num: 38
Candidate Starts for Scheme_95:

(Start: 38 @68732 has 84 MA's), (92, 68912), (104, 68990),

Gene: Scout_69 Start: 42030, Stop: 41764, Start Num: 65
Candidate Starts for Scout_69:
(36, 42105), (Start: 65 @42030 has 27 MA's), (78, 42000), (100, 41898),

Gene: SeresaTree_85 Start: 61986, Stop: 62297, Start Num: 41
Candidate Starts for SeresaTree_85:
(Start: 41 @61986 has 32 MA's), (81, 62097),

Gene: SgtBeansprout_63 Start: 47156, Stop: 47428, Start Num: 52
Candidate Starts for SgtBeansprout_63:
(Start: 44 @47141 has 1 MA's), (Start: 52 @47156 has 148 MA's), (Start: 56 @47165 has 1 MA's), (Start: 66 @47186 has 8 MA's), (Start: 69 @47195 has 1 MA's), (77, 47213), (78, 47216), (80, 47228), (81, 47231), (86, 47249), (90, 47285), (95, 47297), (109, 47399),

Gene: Shadow1_80 Start: 50598, Stop: 50870, Start Num: 52
Candidate Starts for Shadow1_80:
(Start: 44 @50583 has 1 MA's), (Start: 52 @50598 has 148 MA's), (Start: 59 @50613 has 5 MA's), (67, 50631), (78, 50658), (80, 50670), (86, 50691),

Gene: Sham_79 Start: 61738, Stop: 62049, Start Num: 41
Candidate Starts for Sham_79:
(Start: 41 @61738 has 32 MA's), (80, 61846), (81, 61849), (92, 61909), (105, 61990),

Gene: Shaobing_76 Start: 50323, Stop: 50601, Start Num: 52
Candidate Starts for Shaobing_76:
(Start: 44 @50308 has 1 MA's), (Start: 52 @50323 has 148 MA's), (Start: 56 @50332 has 1 MA's), (77, 50380), (78, 50383), (81, 50398), (86, 50416), (107, 50557),

Gene: ShedlockHolmes_78 Start: 50418, Stop: 50690, Start Num: 52
Candidate Starts for ShedlockHolmes_78:
(Start: 52 @50418 has 148 MA's), (Start: 59 @50433 has 5 MA's), (77, 50475), (78, 50478), (81, 50493), (86, 50511), (100, 50580),

Gene: Shep_68 Start: 41780, Stop: 41514, Start Num: 65
Candidate Starts for Shep_68:
(36, 41855), (Start: 65 @41780 has 27 MA's), (Start: 69 @41771 has 1 MA's), (78, 41750), (100, 41648),

Gene: ShiaSurprise_76 Start: 50313, Stop: 50585, Start Num: 52
Candidate Starts for ShiaSurprise_76:
(Start: 44 @50298 has 1 MA's), (Start: 52 @50313 has 148 MA's), (77, 50367), (78, 50370), (81, 50385), (86, 50403), (96, 50451), (100, 50472), (107, 50544), (109, 50553),

Gene: Shuckle_92 Start: 68340, Stop: 68660, Start Num: 38
Candidate Starts for Shuckle_92:
(Start: 38 @68340 has 84 MA's), (92, 68520), (104, 68598),

Gene: Simpson_66 Start: 41531, Stop: 41845, Start Num: 54
Candidate Starts for Simpson_66:
(Start: 54 @41531 has 70 MA's),

Gene: SirPhilip_75 Start: 50824, Stop: 51099, Start Num: 52
Candidate Starts for SirPhilip_75:
(Start: 44 @50809 has 1 MA's), (Start: 52 @50824 has 148 MA's), (Start: 59 @50839 has 5 MA's), (67, 50857), (Start: 76 @50878 has 15 MA's), (80, 50896), (81, 50899), (86, 50917),

Gene: Skelbel_63 Start: 41420, Stop: 41731, Start Num: 54
Candidate Starts for Skelbel_63:
(Start: 54 @41420 has 70 MA's),

Gene: Slarp_40 Start: 31427, Stop: 31726, Start Num: 45
Candidate Starts for Slarp_40:
(Start: 45 @31427 has 14 MA's), (61, 31463), (Start: 76 @31508 has 15 MA's), (80, 31526), (86, 31547), (90, 31583), (100, 31616), (107, 31688),

Gene: Slimphazie_77 Start: 50533, Stop: 50805, Start Num: 52
Candidate Starts for Slimphazie_77:
(Start: 44 @50518 has 1 MA's), (Start: 52 @50533 has 148 MA's), (77, 50587), (78, 50590), (81, 50605), (86, 50623), (96, 50671), (100, 50692), (107, 50764), (109, 50773),

Gene: Snek_61 Start: 38593, Stop: 38904, Start Num: 54
Candidate Starts for Snek_61:
(4, 38203), (Start: 54 @38593 has 70 MA's),

Gene: Snickers_75 Start: 43041, Stop: 42814, Start Num: 74
Candidate Starts for Snickers_75:
(Start: 74 @43041 has 72 MA's), (Start: 76 @43035 has 15 MA's),

Gene: SoYo_72 Start: 42980, Stop: 42753, Start Num: 74
Candidate Starts for SoYo_72:
(Start: 74 @42980 has 72 MA's), (Start: 76 @42974 has 15 MA's),

Gene: SoilDragon_74 Start: 42516, Stop: 42289, Start Num: 74
Candidate Starts for SoilDragon_74:
(Start: 74 @42516 has 72 MA's), (Start: 76 @42510 has 15 MA's),

Gene: Sollertia_98 Start: 68305, Stop: 68625, Start Num: 38
Candidate Starts for Sollertia_98:
(Start: 38 @68305 has 84 MA's), (104, 68563),

Gene: Soondubu_58 Start: 42991, Stop: 43305, Start Num: 51
Candidate Starts for Soondubu_58:
(Start: 51 @42991 has 3 MA's), (58, 43006), (78, 43057), (90, 43126), (101, 43162), (103, 43198), (106, 43222),

Gene: Sooty_58 Start: 37931, Stop: 38257, Start Num: 54
Candidate Starts for Sooty_58:
(1, 37274), (3, 37514), (21, 37790), (32, 37853), (Start: 54 @37931 has 70 MA's), (81, 38009), (107, 38171), (114, 38219),

Gene: Soshari_77 Start: 43092, Stop: 42865, Start Num: 74
Candidate Starts for Soshari_77:
(Start: 74 @43092 has 72 MA's), (Start: 76 @43086 has 15 MA's),

Gene: SparkleGoddess_85 Start: 62664, Stop: 62972, Start Num: 41
Candidate Starts for SparkleGoddess_85:
(Start: 41 @62664 has 32 MA's), (81, 62775), (92, 62835), (102, 62877),

Gene: SpecialK_58 Start: 37925, Stop: 38251, Start Num: 54
Candidate Starts for SpecialK_58:
(32, 37847), (Start: 54 @37925 has 70 MA's), (81, 38003), (107, 38165),

Gene: Spelly_98 Start: 68317, Stop: 68637, Start Num: 38
Candidate Starts for Spelly_98:
(Start: 38 @68317 has 84 MA's), (80, 68434), (104, 68575),

Gene: Spike509_75 Start: 43087, Stop: 42866, Start Num: 76
Candidate Starts for Spike509_75:
(Start: 74 @43093 has 72 MA's), (Start: 76 @43087 has 15 MA's),

Gene: Spilled_99 Start: 68434, Stop: 68754, Start Num: 38
Candidate Starts for Spilled_99:
(Start: 38 @68434 has 84 MA's), (80, 68551), (104, 68692),

Gene: Spock_75 Start: 50117, Stop: 50389, Start Num: 52
Candidate Starts for Spock_75:
(Start: 44 @50102 has 1 MA's), (Start: 52 @50117 has 148 MA's), (77, 50171), (78, 50174), (81, 50189), (86, 50207), (96, 50255), (100, 50276), (107, 50348), (109, 50357),

Gene: Squillium_94 Start: 68288, Stop: 68608, Start Num: 38
Candidate Starts for Squillium_94:
(Start: 38 @68288 has 84 MA's), (81, 68408), (92, 68468), (104, 68546),

Gene: Stagni_72 Start: 43065, Stop: 42844, Start Num: 76
Candidate Starts for Stagni_72:
(Start: 74 @43071 has 72 MA's), (Start: 76 @43065 has 15 MA's),

Gene: Stanimal_98 Start: 68194, Stop: 68514, Start Num: 38
Candidate Starts for Stanimal_98:
(Start: 38 @68194 has 84 MA's), (104, 68452),

Gene: StarPlatinum_98 Start: 68870, Stop: 69190, Start Num: 38
Candidate Starts for StarPlatinum_98:
(Start: 38 @68870 has 84 MA's), (80, 68987), (82, 68993), (97, 69062), (108, 69149),

Gene: Starbow_96 Start: 68338, Stop: 68658, Start Num: 38
Candidate Starts for Starbow_96:
(Start: 38 @68338 has 84 MA's), (80, 68455), (104, 68596),

Gene: StepMih_74 Start: 43062, Stop: 42835, Start Num: 74
Candidate Starts for StepMih_74:
(Start: 74 @43062 has 72 MA's), (Start: 76 @43056 has 15 MA's),

Gene: Stigma_84 Start: 62672, Stop: 62980, Start Num: 41
Candidate Starts for Stigma_84:
(Start: 41 @62672 has 32 MA's), (81, 62783), (92, 62843), (102, 62885),

Gene: Stinson_76 Start: 50711, Stop: 50983, Start Num: 52
Candidate Starts for Stinson_76:
(Start: 44 @50696 has 1 MA's), (Start: 52 @50711 has 148 MA's), (77, 50768), (78, 50771), (81, 50786), (86, 50804), (96, 50852), (100, 50873), (107, 50945), (109, 50954),

Gene: Strobilo_80 Start: 52470, Stop: 52739, Start Num: 53
Candidate Starts for Strobilo_80:
(22, 52347), (Start: 53 @52470 has 12 MA's), (60, 52485), (78, 52527), (86, 52560), (91, 52596), (100, 52629),

Gene: Stuu_58 Start: 38034, Stop: 38360, Start Num: 54
Candidate Starts for Stuu_58:
(29, 37935), (32, 37956), (Start: 54 @38034 has 70 MA's), (81, 38112), (107, 38274),

Gene: Subaru_61 Start: 41176, Stop: 41487, Start Num: 54
Candidate Starts for Subaru_61:
(Start: 54 @41176 has 70 MA's),

Gene: Sue2_60 Start: 39873, Stop: 40190, Start Num: 52
Candidate Starts for Sue2_60:
(Start: 52 @39873 has 148 MA's),

Gene: Sulley_74 Start: 50144, Stop: 50416, Start Num: 52
Candidate Starts for Sulley_74:
(Start: 44 @50129 has 1 MA's), (Start: 52 @50144 has 148 MA's), (77, 50201), (78, 50204), (81, 50219), (86, 50237), (96, 50285), (100, 50306), (107, 50378), (109, 50387),

Gene: Sunflower1121_81 Start: 50744, Stop: 51016, Start Num: 52
Candidate Starts for Sunflower1121_81:
(Start: 44 @50729 has 1 MA's), (Start: 52 @50744 has 148 MA's), (Start: 59 @50759 has 5 MA's), (67, 50777), (78, 50804), (80, 50816), (86, 50837),

Gene: Sushi23_93 Start: 68243, Stop: 68563, Start Num: 38
Candidate Starts for Sushi23_93:
(Start: 38 @68243 has 84 MA's), (92, 68423), (104, 68501),

Gene: Syra333_79 Start: 50472, Stop: 50744, Start Num: 52
Candidate Starts for Syra333_79:
(Start: 44 @50457 has 1 MA's), (Start: 52 @50472 has 148 MA's), (Start: 59 @50487 has 5 MA's), (67, 50505), (78, 50532), (80, 50544), (86, 50565),

Gene: TBond007_72 Start: 49916, Stop: 50185, Start Num: 52
Candidate Starts for TBond007_72:
(Start: 52 @49916 has 148 MA's), (Start: 59 @49931 has 5 MA's), (80, 49985), (81, 49988), (86, 50006), (100, 50075),

Gene: TClif_77 Start: 50210, Stop: 50482, Start Num: 52
Candidate Starts for TClif_77:
(Start: 44 @50195 has 1 MA's), (Start: 52 @50210 has 148 MA's), (Start: 59 @50225 has 5 MA's), (77, 50267), (78, 50270), (86, 50303), (100, 50372),

Gene: TM4_77 Start: 46904, Stop: 47173, Start Num: 53
Candidate Starts for TM4_77:

(Start: 53 @46904 has 12 MA's), (78, 46961), (86, 46994), (91, 47030), (100, 47063),

Gene: TNguyen7_71 Start: 42818, Stop: 42552, Start Num: 66
Candidate Starts for TNguyen7_71:
(Start: 66 @42818 has 8 MA's), (78, 42788), (100, 42686), (113, 42572),

Gene: Tachez_75 Start: 49961, Stop: 50233, Start Num: 52
Candidate Starts for Tachez_75:
(Start: 44 @49946 has 1 MA's), (Start: 52 @49961 has 148 MA's), (77, 50015), (78, 50018), (81, 50033), (86, 50051), (96, 50099), (100, 50120), (107, 50192), (109, 50201),

Gene: TaiwanKao_77 Start: 50636, Stop: 50908, Start Num: 52
Candidate Starts for TaiwanKao_77:
(Start: 44 @50621 has 1 MA's), (Start: 52 @50636 has 148 MA's), (77, 50693), (78, 50696), (81, 50711), (86, 50729), (96, 50777), (100, 50798), (107, 50870), (109, 50879),

Gene: Tallboi_62 Start: 41422, Stop: 41733, Start Num: 54
Candidate Starts for Tallboi_62:
(Start: 54 @41422 has 70 MA's),

Gene: Taquito_40 Start: 31813, Stop: 32112, Start Num: 45
Candidate Starts for Taquito_40:
(Start: 45 @31813 has 14 MA's), (61, 31849), (Start: 76 @31894 has 15 MA's), (80, 31912), (86, 31933), (90, 31969), (100, 32002), (107, 32074),

Gene: Targaryen_94 Start: 68953, Stop: 69273, Start Num: 38
Candidate Starts for Targaryen_94:
(Start: 38 @68953 has 84 MA's), (92, 69133), (104, 69211),

Gene: Taurus_76 Start: 43062, Stop: 42841, Start Num: 76
Candidate Starts for Taurus_76:
(Start: 74 @43068 has 72 MA's), (Start: 76 @43062 has 15 MA's),

Gene: Tbone_62 Start: 41901, Stop: 42215, Start Num: 54
Candidate Starts for Tbone_62:
(Start: 54 @41901 has 70 MA's),

Gene: Teejan_64 Start: 49769, Stop: 50041, Start Num: 52
Candidate Starts for Teejan_64:
(Start: 44 @49754 has 1 MA's), (Start: 52 @49769 has 148 MA's), (Start: 56 @49778 has 1 MA's), (Start: 66 @49799 has 8 MA's), (Start: 69 @49808 has 1 MA's), (77, 49826), (78, 49829), (80, 49841), (81, 49844), (86, 49862), (90, 49898), (95, 49910), (109, 50012),

Gene: Teutsch_94 Start: 68506, Stop: 68826, Start Num: 38
Candidate Starts for Teutsch_94:
(Start: 38 @68506 has 84 MA's), (92, 68686), (104, 68764),

Gene: Texage_68 Start: 42818, Stop: 42558, Start Num: 65
Candidate Starts for Texage_68:
(36, 42893), (Start: 65 @42818 has 27 MA's), (78, 42788), (113, 42572),

Gene: TforTroy_63 Start: 41704, Stop: 42018, Start Num: 54
Candidate Starts for TforTroy_63:

(Start: 54 @41704 has 70 MA's),

Gene: ThursdayNight_67 Start: 42795, Stop: 43094, Start Num: 54
Candidate Starts for ThursdayNight_67:
(Start: 54 @42795 has 70 MA's), (78, 42858), (109, 43041), (111, 43062),

Gene: Tian_61 Start: 42417, Stop: 42731, Start Num: 54
Candidate Starts for Tian_61:
(Start: 39 @42390 has 1 MA's), (Start: 54 @42417 has 70 MA's),

Gene: Tierra_79 Start: 50730, Stop: 51002, Start Num: 52
Candidate Starts for Tierra_79:
(Start: 44 @50715 has 1 MA's), (Start: 52 @50730 has 148 MA's), (78, 50790), (86, 50823),

Gene: Tiffany_74 Start: 42947, Stop: 42726, Start Num: 76
Candidate Starts for Tiffany_74:
(Start: 74 @42953 has 72 MA's), (Start: 76 @42947 has 15 MA's),

Gene: Tigress9_80 Start: 50787, Stop: 51059, Start Num: 52
Candidate Starts for Tigress9_80:
(Start: 44 @50772 has 1 MA's), (Start: 52 @50787 has 148 MA's), (Start: 59 @50802 has 5 MA's), (67, 50820), (78, 50847), (80, 50859), (86, 50880),

Gene: TingHuaYa_78 Start: 49873, Stop: 50157, Start Num: 52
Candidate Starts for TingHuaYa_78:
(Start: 44 @49858 has 1 MA's), (Start: 52 @49873 has 148 MA's), (Start: 59 @49888 has 5 MA's), (77, 49930), (78, 49933), (80, 49945), (81, 49948), (86, 49966), (100, 50035), (107, 50107), (109, 50116), (112, 50146),

Gene: TiniBug_75 Start: 50512, Stop: 50781, Start Num: 52
Candidate Starts for TiniBug_75:
(Start: 44 @50497 has 1 MA's), (Start: 52 @50512 has 148 MA's), (68, 50542), (77, 50563), (78, 50566), (81, 50581), (86, 50599), (100, 50668), (107, 50740), (109, 50749),

Gene: TinyPebbles_74 Start: 43098, Stop: 42871, Start Num: 74
Candidate Starts for TinyPebbles_74:
(Start: 74 @43098 has 72 MA's), (Start: 76 @43092 has 15 MA's), (78, 43086),

Gene: Tiri_75 Start: 50017, Stop: 50286, Start Num: 52
Candidate Starts for Tiri_75:
(Start: 44 @50002 has 1 MA's), (Start: 52 @50017 has 148 MA's), (77, 50071), (78, 50074), (81, 50089), (86, 50107), (96, 50155), (100, 50176), (107, 50248), (109, 50257),

Gene: Todacoro_70 Start: 42817, Stop: 42557, Start Num: 65
Candidate Starts for Todacoro_70:
(36, 42892), (Start: 65 @42817 has 27 MA's), (78, 42787), (113, 42571),

Gene: TomSawyer_96 Start: 67953, Stop: 68273, Start Num: 38
Candidate Starts for TomSawyer_96:
(Start: 38 @67953 has 84 MA's), (80, 68070), (104, 68211),

Gene: Tomas_99 Start: 70399, Stop: 70716, Start Num: 38
Candidate Starts for Tomas_99:

(Start: 38 @70399 has 84 MA's), (68, 70468), (80, 70513), (84, 70528), (92, 70576),

Gene: Topper_75 Start: 50116, Stop: 50388, Start Num: 52
Candidate Starts for Topper_75:
(Start: 44 @50101 has 1 MA's), (Start: 52 @50116 has 148 MA's), (77, 50170), (78, 50173), (81, 50188), (86, 50206), (96, 50254), (100, 50275), (107, 50347), (109, 50356),

Gene: Torres_65 Start: 49770, Stop: 50042, Start Num: 52
Candidate Starts for Torres_65:
(Start: 44 @49755 has 1 MA's), (Start: 52 @49770 has 148 MA's), (Start: 56 @49779 has 1 MA's), (Start: 66 @49800 has 8 MA's), (Start: 69 @49809 has 1 MA's), (77, 49827), (78, 49830), (80, 49842), (81, 49845), (86, 49863), (90, 49899), (95, 49911), (109, 50013),

Gene: TreyKay_78 Start: 50578, Stop: 50853, Start Num: 52
Candidate Starts for TreyKay_78:
(Start: 44 @50563 has 1 MA's), (Start: 52 @50578 has 148 MA's), (77, 50635), (78, 50638), (80, 50650), (81, 50653), (86, 50671), (96, 50719), (100, 50740), (107, 50812), (109, 50821),

Gene: TribleTrouble_76 Start: 50522, Stop: 50797, Start Num: 52
Candidate Starts for TribleTrouble_76:
(Start: 52 @50522 has 148 MA's), (Start: 59 @50537 has 5 MA's), (78, 50582), (81, 50597), (86, 50615), (100, 50684), (107, 50756), (109, 50765),

Gene: Tribute_92 Start: 67712, Stop: 68032, Start Num: 38
Candidate Starts for Tribute_92:
(Start: 38 @67712 has 84 MA's), (82, 67835), (92, 67892), (104, 67970),

Gene: Trice_62 Start: 47157, Stop: 47429, Start Num: 52
Candidate Starts for Trice_62:
(Start: 44 @47142 has 1 MA's), (Start: 52 @47157 has 148 MA's), (Start: 56 @47166 has 1 MA's), (Start: 66 @47187 has 8 MA's), (Start: 69 @47196 has 1 MA's), (77, 47214), (78, 47217), (80, 47229), (81, 47232), (86, 47250), (90, 47286), (95, 47298), (109, 47400),

Gene: Trina_114 Start: 76291, Stop: 76587, Start Num: 41
Candidate Starts for Trina_114:
(33, 76261), (Start: 41 @76291 has 32 MA's), (Start: 42 @76294 has 1 MA's), (72, 76357), (73, 76360), (90, 76447),

Gene: TruffulaTree_77 Start: 50529, Stop: 50801, Start Num: 52
Candidate Starts for TruffulaTree_77:
(Start: 44 @50514 has 1 MA's), (Start: 52 @50529 has 148 MA's), (77, 50583), (78, 50586), (81, 50601), (86, 50619), (100, 50688), (107, 50760), (109, 50769),

Gene: Tuck_62 Start: 41693, Stop: 42004, Start Num: 54
Candidate Starts for Tuck_62:
(Start: 54 @41693 has 70 MA's),

Gene: Tuesday_101 Start: 68500, Stop: 68820, Start Num: 38
Candidate Starts for Tuesday_101:
(Start: 38 @68500 has 84 MA's), (80, 68617), (104, 68758),

Gene: TunaTartare_84 Start: 63152, Stop: 63463, Start Num: 41
Candidate Starts for TunaTartare_84:

(Start: 41 @63152 has 32 MA's), (81, 63263), (105, 63404),

Gene: Turab_60 Start: 40878, Stop: 41189, Start Num: 54
Candidate Starts for Turab_60:
(Start: 39 @40851 has 1 MA's), (Start: 54 @40878 has 70 MA's),

Gene: Tutumahutu_64 Start: 41493, Stop: 41807, Start Num: 54
Candidate Starts for Tutumahutu_64:
(Start: 54 @41493 has 70 MA's),

Gene: Tweety19_62 Start: 38594, Stop: 38905, Start Num: 54
Candidate Starts for Tweety19_62:
(Start: 54 @38594 has 70 MA's),

Gene: Twitch_75 Start: 50118, Stop: 50390, Start Num: 52
Candidate Starts for Twitch_75:
(Start: 44 @50103 has 1 MA's), (Start: 52 @50118 has 148 MA's), (77, 50172), (78, 50175), (81, 50190), (86, 50208), (96, 50256), (100, 50277), (107, 50349), (109, 50358),

Gene: Unicorn_78 Start: 50059, Stop: 50331, Start Num: 52
Candidate Starts for Unicorn_78:
(32, 49996), (Start: 44 @50044 has 1 MA's), (Start: 52 @50059 has 148 MA's), (78, 50119), (80, 50131), (86, 50152),

Gene: Urkel_75 Start: 50512, Stop: 50781, Start Num: 52
Candidate Starts for Urkel_75:
(Start: 44 @50497 has 1 MA's), (Start: 52 @50512 has 148 MA's), (77, 50563), (78, 50566), (80, 50578), (81, 50581), (86, 50599), (96, 50647), (100, 50668), (107, 50740), (109, 50749),

Gene: VResidence_62 Start: 39424, Stop: 39738, Start Num: 54
Candidate Starts for VResidence_62:
(Start: 54 @39424 has 70 MA's),

Gene: Validus_80 Start: 50873, Stop: 51148, Start Num: 52
Candidate Starts for Validus_80:
(Start: 52 @50873 has 148 MA's), (77, 50927), (78, 50930), (80, 50942), (81, 50945), (86, 50963), (99, 51029), (107, 51104),

Gene: Veliki_76 Start: 50069, Stop: 50341, Start Num: 52
Candidate Starts for Veliki_76:
(Start: 44 @50054 has 1 MA's), (Start: 52 @50069 has 148 MA's), (77, 50123), (78, 50126), (81, 50141), (86, 50159), (96, 50207), (100, 50228), (107, 50300), (109, 50309),

Gene: Veracruz_67 Start: 42817, Stop: 42557, Start Num: 65
Candidate Starts for Veracruz_67:
(36, 42892), (Start: 65 @42817 has 27 MA's), (78, 42787), (113, 42571),

Gene: Vix_71 Start: 43151, Stop: 42924, Start Num: 74
Candidate Starts for Vix_71:
(Start: 74 @43151 has 72 MA's), (Start: 76 @43145 has 15 MA's),

Gene: Wakanda_76 Start: 60737, Stop: 61051, Start Num: 41
Candidate Starts for Wakanda_76:

(Start: 41 @60737 has 32 MA's), (89, 60887),

Gene: Warda_63 Start: 41627, Stop: 41941, Start Num: 54
Candidate Starts for Warda_63:
(Start: 54 @41627 has 70 MA's),

Gene: Warpy_97 Start: 68416, Stop: 68736, Start Num: 38
Candidate Starts for Warpy_97:
(Start: 38 @68416 has 84 MA's), (92, 68596), (104, 68674),

Gene: WashU_93 Start: 68021, Stop: 68341, Start Num: 38
Candidate Starts for WashU_93:
(Start: 38 @68021 has 84 MA's), (92, 68201), (104, 68279),

Gene: Watermoore_93 Start: 68722, Stop: 69042, Start Num: 38
Candidate Starts for Watermoore_93:
(Start: 38 @68722 has 84 MA's), (92, 68902), (104, 68980),

Gene: Watson_74 Start: 43060, Stop: 42833, Start Num: 74
Candidate Starts for Watson_74:
(Start: 74 @43060 has 72 MA's), (Start: 76 @43054 has 15 MA's),

Gene: Weasels2_112 Start: 69578, Stop: 69868, Start Num: 48
Candidate Starts for Weasels2_112:
(Start: 48 @69578 has 3 MA's), (85, 69683), (92, 69728), (107, 69824),

Gene: Westy_86 Start: 62664, Stop: 62972, Start Num: 41
Candidate Starts for Westy_86:
(Start: 41 @62664 has 32 MA's), (80, 62772), (81, 62775), (92, 62835), (102, 62877),

Gene: WhereRU_91 Start: 67722, Stop: 68042, Start Num: 38
Candidate Starts for WhereRU_91:
(Start: 38 @67722 has 84 MA's), (81, 67842), (92, 67902), (104, 67980),

Gene: Wildcat_147 Start: 68820, Stop: 68542, Start Num: 59
Candidate Starts for Wildcat_147:
(14, 69027), (28, 68937), (Start: 59 @68820 has 5 MA's), (75, 68775), (87, 68724), (102, 68643), (103, 68622), (112, 68550), (113, 68547),

Gene: Wildwest_58 Start: 41296, Stop: 41607, Start Num: 54
Candidate Starts for Wildwest_58:
(Start: 39 @41269 has 1 MA's), (Start: 54 @41296 has 70 MA's),

Gene: Wintermute_40 Start: 31413, Stop: 31712, Start Num: 45
Candidate Starts for Wintermute_40:
(Start: 45 @31413 has 14 MA's), (61, 31449), (Start: 76 @31494 has 15 MA's), (80, 31512), (86, 31533), (90, 31569), (100, 31602), (107, 31674),

Gene: Wipeout_95 Start: 68704, Stop: 69024, Start Num: 38
Candidate Starts for Wipeout_95:
(Start: 38 @68704 has 84 MA's), (80, 68821), (104, 68962),

Gene: Wofford_96 Start: 68620, Stop: 68946, Start Num: 38

Candidate Starts for Wofford_96:
(Start: 38 @68620 has 84 MA's), (70, 68710), (85, 68761), (92, 68806), (108, 68905),

Gene: Wooldri_77 Start: 42980, Stop: 42753, Start Num: 74
Candidate Starts for Wooldri_77:
(Start: 74 @42980 has 72 MA's), (Start: 76 @42974 has 15 MA's),

Gene: Ximenita_81 Start: 50796, Stop: 51068, Start Num: 52
Candidate Starts for Ximenita_81:
(Start: 44 @50781 has 1 MA's), (Start: 52 @50796 has 148 MA's), (Start: 66 @50826 has 8 MA's), (78, 50856), (80, 50868), (86, 50889), (100, 50958),

Gene: Y10_39 Start: 31413, Stop: 31712, Start Num: 46
Candidate Starts for Y10_39:
(Start: 46 @31413 has 8 MA's), (61, 31449), (Start: 76 @31494 has 15 MA's), (80, 31512), (90, 31569), (100, 31602), (107, 31674),

Gene: Y2_39 Start: 31413, Stop: 31712, Start Num: 46
Candidate Starts for Y2_39:
(Start: 46 @31413 has 8 MA's), (61, 31449), (Start: 76 @31494 has 15 MA's), (80, 31512), (90, 31569), (100, 31602), (107, 31674),

Gene: Yaboi_98 Start: 68282, Stop: 68602, Start Num: 38
Candidate Starts for Yaboi_98:
(Start: 38 @68282 has 84 MA's), (104, 68540),

Gene: Yang_62 Start: 41347, Stop: 41661, Start Num: 54
Candidate Starts for Yang_62:
(2, 40882), (Start: 54 @41347 has 70 MA's),

Gene: YasnayaPolyana_40 Start: 31415, Stop: 31714, Start Num: 45
Candidate Starts for YasnayaPolyana_40:
(Start: 45 @31415 has 14 MA's), (61, 31451), (Start: 76 @31496 has 15 MA's), (80, 31514), (86, 31535), (90, 31571), (100, 31604), (107, 31676),

Gene: YesChef_62 Start: 41309, Stop: 41623, Start Num: 54
Candidate Starts for YesChef_62:
(Start: 54 @41309 has 70 MA's),

Gene: YoureAdopted_75 Start: 50480, Stop: 50749, Start Num: 52
Candidate Starts for YoureAdopted_75:
(Start: 52 @50480 has 148 MA's), (77, 50534), (78, 50537), (81, 50552), (86, 50570), (96, 50618), (100, 50639), (107, 50711), (109, 50720),

Gene: Yuna_78 Start: 51558, Stop: 51830, Start Num: 52
Candidate Starts for Yuna_78:
(Start: 44 @51543 has 1 MA's), (Start: 52 @51558 has 148 MA's), (Start: 59 @51573 has 5 MA's), (86, 51651),

Gene: Yunkel11_81 Start: 50697, Stop: 50972, Start Num: 52
Candidate Starts for Yunkel11_81:
(Start: 44 @50682 has 1 MA's), (Start: 52 @50697 has 148 MA's), (77, 50754), (78, 50757), (80, 50769), (81, 50772), (86, 50790), (96, 50838), (100, 50859), (107, 50931), (109, 50940),

Gene: Zabiza_71 Start: 46466, Stop: 46738, Start Num: 52
Candidate Starts for Zabiza_71:
(Start: 44 @46451 has 1 MA's), (Start: 52 @46466 has 148 MA's), (77, 46520), (78, 46523), (81, 46538), (86, 46556), (96, 46604), (100, 46625), (107, 46697), (109, 46706),

Gene: Zarafa_68 Start: 42792, Stop: 42526, Start Num: 65
Candidate Starts for Zarafa_68:
(36, 42867), (Start: 65 @42792 has 27 MA's), (78, 42762), (100, 42660),

Gene: Zavala_78 Start: 50607, Stop: 50879, Start Num: 52
Candidate Starts for Zavala_78:
(Start: 44 @50592 has 1 MA's), (Start: 52 @50607 has 148 MA's), (77, 50661), (78, 50664), (81, 50679), (86, 50697), (96, 50745), (100, 50766), (107, 50838), (109, 50847),

Gene: Zetzy_72 Start: 42631, Stop: 42404, Start Num: 74
Candidate Starts for Zetzy_72:
(Start: 74 @42631 has 72 MA's), (Start: 76 @42625 has 15 MA's),

Gene: ZoeJ_78 Start: 51905, Stop: 52174, Start Num: 53
Candidate Starts for ZoeJ_78:
(22, 51782), (37, 51866), (Start: 53 @51905 has 12 MA's), (78, 51962), (86, 51995), (91, 52031), (100, 52064),