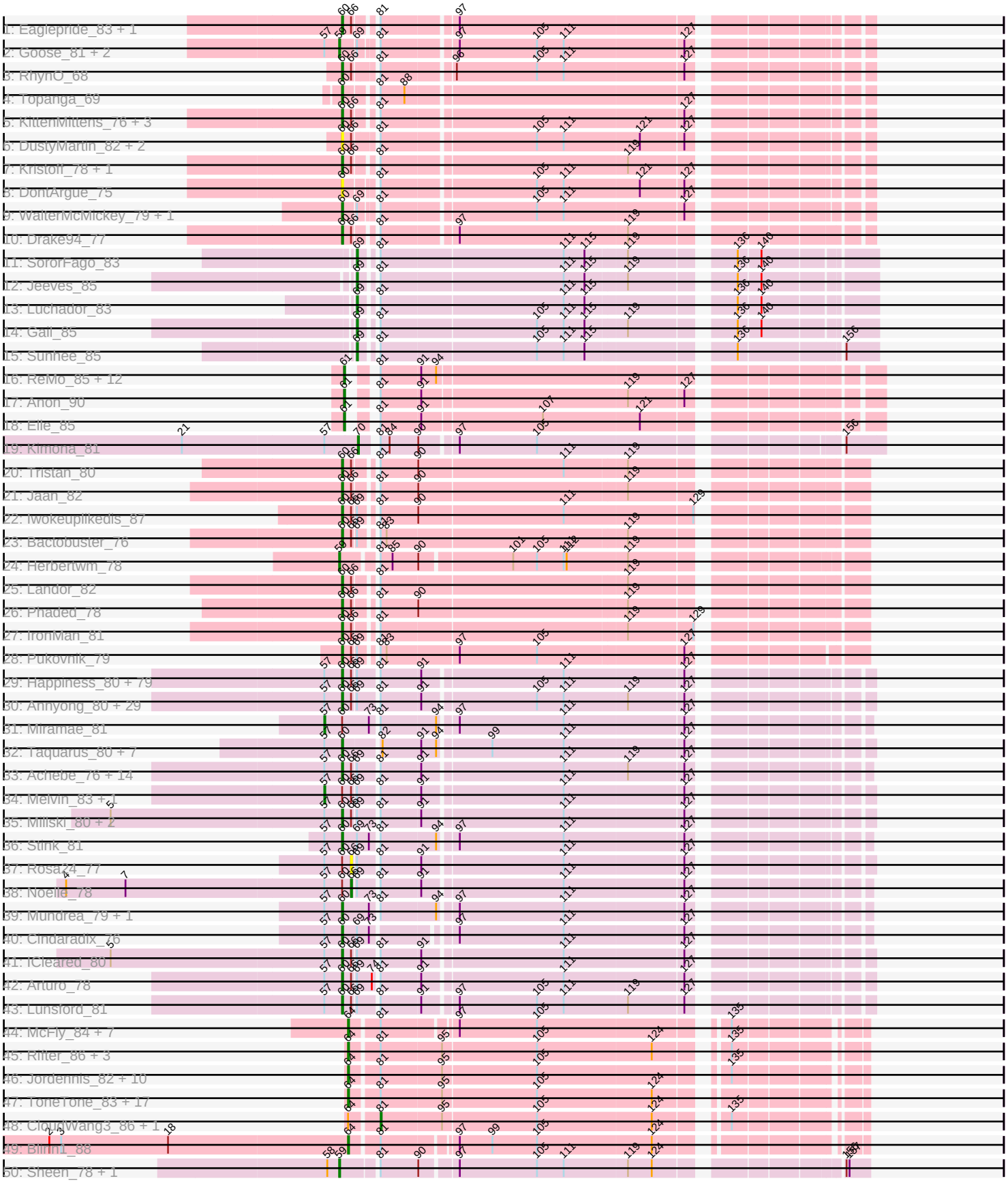
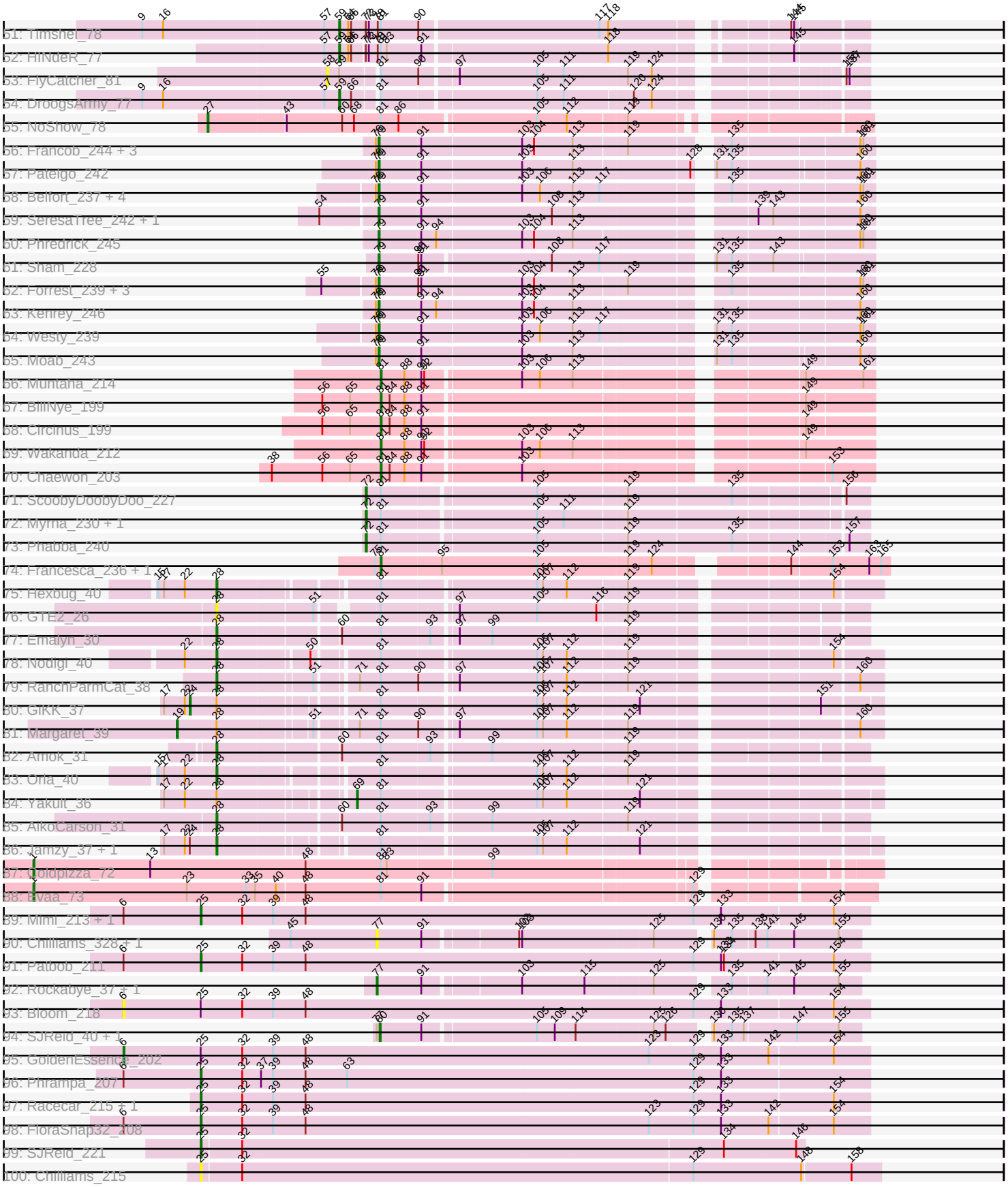
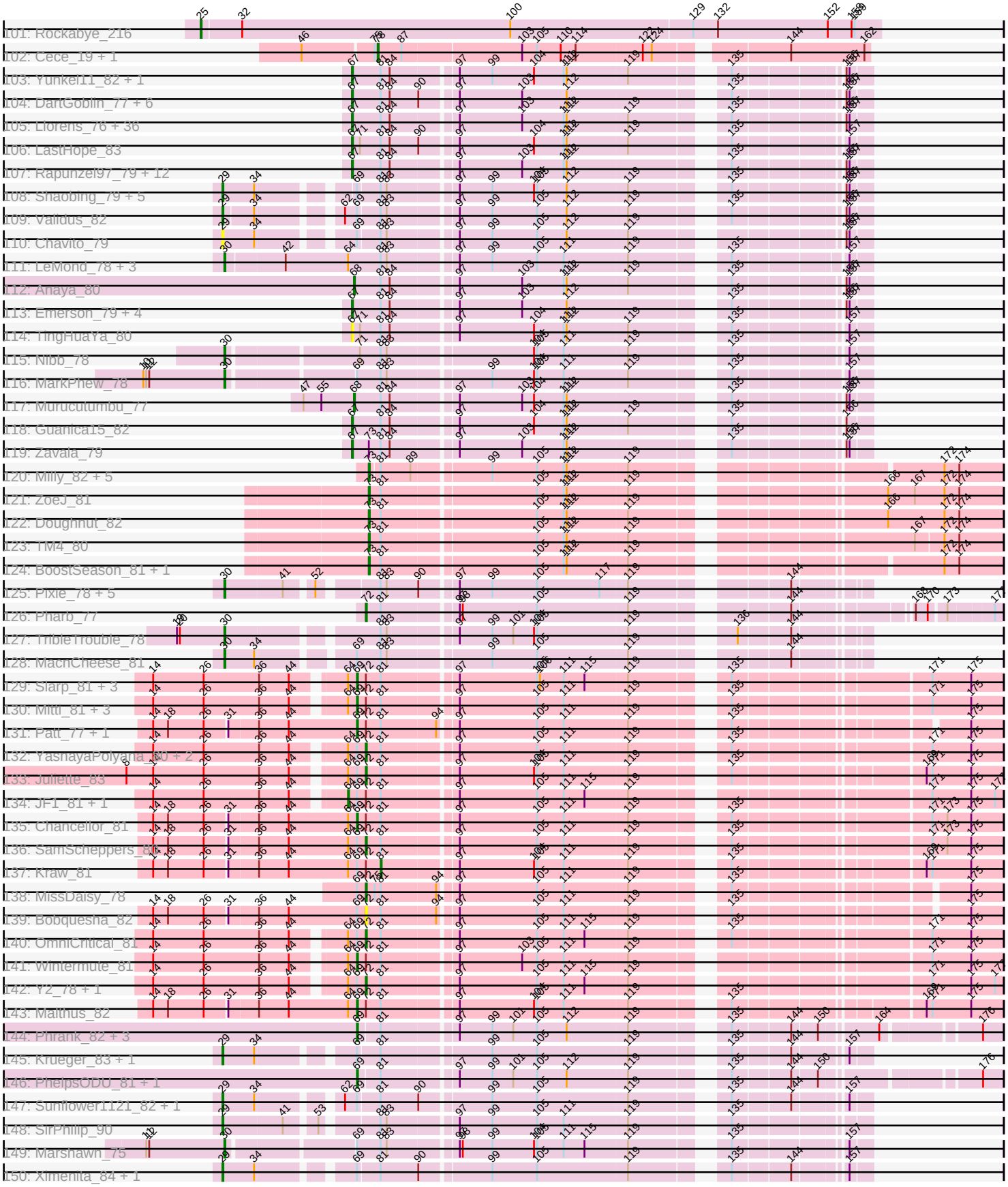
Pham 347090


1: Eaglepride_83 + 1
2: Goose_81 + 2
3: RhynO_68
4: Topanga_69
5: KittenMittens_76 + 3
6: DustyMartin_82 + 2
7: Kriston_78 + 1
8: DontArgue_75
9: WalterMcMickey_79 + 1
10: Drake94_77
11: SororFago_83
12: Jeeves_85
13: Luchador_83
14: Gail_85
15: Sunnee_85
16: ReMo_85 + 12
17: Anon_90
18: Elle_85
19: Kimona_81
20: Tristan_80
21: Jaan_82
22: Iwokeuplikedis_87
23: Bactobuster_76
24: Herbertwm_78
25: Landor_82
26: Phaded_78
27: IronMan_81
28: Pukovnik_79
29: Happiness_80 + 79
30: Annyong_80 + 29
31: Miramae_81
32: Taquarus_80 + 7
33: Achebe_76 + 14
34: Melvin_83 + 1
35: Miliski_80 + 2
36: Stink_81
37: Rosa24_77
38: Noelle_78
39: Mundrea_79 + 1
40: Cindaradix_76
41: ICleared_80
42: Arturo_78
43: Lunsford_81
44: McFly_84 + 7
45: Ritter_86 + 3
46: Jordennis_82 + 10
47: ToneTone_83 + 17
48: CloudWang3_86 + 1
49: Blinn1_88
50: Sheen_78 + 1

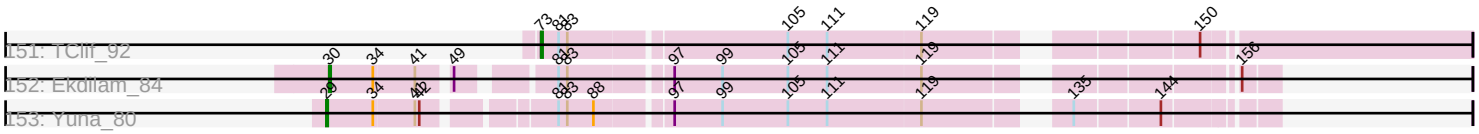
Pham 347090


51: Timshel_78
52: HiNdeR_77
53: FlyCatcher_81
54: DroogsArmy_77
55: NoSnow_78
56: Francob_244 + 3
57: Patelgo_242
58: Belfort_237 + 4
59: SeresaTree_242 + 1
60: Phredrick_245
61: Sham_228
62: Forrest_239 + 3
63: Kenrey_246
64: Westy_239
65: Moab_243
66: Muntana_214
67: BillNye_199
68: Circinus_199
69: Wakanda_212
70: Chaewon_203
71: ScoobyDoobyDoo_227
72: Myrna_230 + 1
73: Phabba_240
74: Francesca_236 + 1
75: Hexbug_40
76: GTE2_26
77: Emalyn_30
78: Nodigi_40
79: RanchParmCat_38
80: GIKK_37
81: Margaret_39
82: Amok_31
83: Orla_40
84: Yakult_36
85: AikoCarson_31
86: Jamzy_37 + 1
87: Goldpizza_72
88: Bvaa_73
89: Mimi_213 + 1
90: Chilliams_328 + 1
91: Patbob_211
92: Rockabye_37 + 1
93: Bloom_218
94: SJReid_40 + 1
95: GoldenEssence_202
96: Phrampa_207
97: Racecar_215 + 1
98: FloraSnap32_208
99: SJReid_221
100: Chilliams_215

Pham 347090


101: Rockabye_216
102: Cece_19 + 1
103: Yunkel11_82 + 1
104: DartGoblin_77 + 6
105: Llorens_76 + 36
106: LastHope_83
107: Rapunzel97_79 + 12
108: Shaobing_79 + 5
109: Valdus_82
110: Chavito_79
111: LeMond_78 + 3
112: Anaya_80
113: Emerson_79 + 4
114: YingHuaYa_80
115: Nibb_78
116: MarkPhew_78
117: Murucutumbu_77
118: Guanica15_82
119: Zavala_79
120: Milly_82 + 5
121: ZoeJ_81
122: Doughnut_82
123: TM4_80
124: BoostSeason_81 + 1
125: Pixie_78 + 5
126: Pharb_77
127: TripleTrouble_78
128: MacCheese_81
129: Starp_81 + 3
130: Mitti_81 + 3
131: Patt_77 + 1
132: YasnayaPolyana_80 + 2
133: Juliette_83
134: JF1_81 + 1
135: Chancellor_81
136: SamScheppers_81
137: Kraw_81
138: MissDaisy_78
139: Bobquesha_82
140: OmniCritical_81
141: Wintermute_81
142: Y2_78 + 1
143: Malthus_82
144: Phrank_82 + 3
145: Krueger_83 + 1
146: PhelpsODU_81 + 1
147: Sunflower1121_82 + 1
148: SirPhilip_90
149: Marshawn_75
150: Ximenita_84 + 1

Pham 347090


151: TCliff_92
152: Ekdilam_84
153: Yuna_80
30
34
41
49
73
81
83
97
99
105
111
119
150
156
20
42
88
135
144

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 347090 Report

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

Pham number 347090 has 463 members, 29 are drafts.

Phages represented in each track:
• Track 1 : Eaglepride_83, Stasia_78
• Track 2 : Goose_81, Chupacabra_77, OKCentral2016_79
• Track 3 : RhynO_68
• Track 4 : Topanga_69
• Track 5 : KittenMittens_76, Poompha_77, Severus_78, PeaceMeal1_77
• Track 6 : DustyMartin_82, Shapes_82, Rowdy_82
• Track 7 : Kristoff_78, Rebeuca_81
• Track 8 : DontArgue_75
• Track 9 : WalterMcMickey_79, Twister_80
• Track 10 : Drake94_77
• Track 11 : SororFago_83
• Track 12 : Jeeves_85
• Track 13 : Luchador_83
• Track 14 : Gail_85
• Track 15 : Sunhee_85
• Track 16 : ReMo_85, MinecraftSteve_88, ShayRa_85, Boohoo_86, Battleship_90, Switzerland_85, LastResort_85, Anaysia_87, JSwag_87, KatherineG_87, Waits_87, DekHockey33_89, Nebulosus_84
• Track 17 : Anon_90
• Track 18 : Elle_85
• Track 19 : Kimona_81
• Track 20 : Tristan_80
• Track 21 : Jaan_82
• Track 22 : Iwokeuplikedis_87
• Track 23 : Bactobuster_76
• Track 24 : Herbertwm_78
• Track 25 : Landor_82
• Track 26 : Phaded_78
• Track 27 : IronMan_81
• Track 28 : Pukovnik_79
• Track 29 : Happiness_80, Eurydice_82, Chaph_81, Burger_79, LochMonster_82, Koreni_80, Bombshell_81, Romney_80, Mazhar510_81, JoongJeon_80, OKaNui_80, Skadoosh_78, Wilbur_81, SenorClean_82, Phelipe_81, Obama12_82, Huxley_73, KekoraPapaka_78, Funston_80, Phighter1804_81, Eris_80, CentreCat_81, Nebs_82, NotAPhaseMom_80, SheldonCooper_81, Cerulean_83, Relief_80, Bruiser_80, Camperdownii_77, Medusa_80, SteMason_81, Scamp_81, Flux_82, Eapen_81, Caelakin_79, Eagle_80, Dhanush_81, Iceman_79, Shygu2_79, YoSam321_81,

ChampagnePapi_84, Kyee_81, Palestino_80, Maverick_80, Spino_80, PeterPeter_81, Houdini22_80, Ulysses_80, Ruin_81, Lorenzo_81, Cocoaberry_81, TygerBlood_81, Pipcraft_77, Avle17_81, LHTSCC_83, KFPoly_80, Phacado_81, Sabertooth_81, Kremtemulon_78, Xena_77, Tinybot_80, Ohfah_82, Kratark_80, Koan_78, NorthStar_78, Maxo_83, Cintron_81, Kampy_80, Gadost_81, Nemo27_80, Kingmustik0402_81, Lemur_81, Datway_78, BangNhom_78, Sultana_81, Wander_81, TroyPia_82, LittleB_81, Clarenza_80, Iracema64_81
• Track 30 : Annyong_80, Rocksand_78, Albee_81, Polymorphads_82, Connomayer_81, TinaFeyge_79, Junimo_77, Jaykayelowell_78, Pumbaa_81, Florean_81, Buckaroo_77, DirtyDunning_80, BubbleTrouble_80, Baby16_81, Sparxx_82, Roosevelt_79, TiroTheta9_80, JetBlade_82, LappelDuVide_81, Holli_80, Abdiel_80, Citius_81, Broseidon_81, Deano_78, Shaka_79, Northrop_78, HamSlice_77, Morrow_83, Blackmoor_80, Bartimeaus_81
• Track 31 : Miramae_81
• Track 32 : Taquarus_80, RockieBear_81, LittleGuy_81, Nyxis_80, Eros_81, Phontbonne_81, Commander_79, Peaches_79
• Track 33 : Achebe_76, Morpher26_77, Wile_76, Alberto7_82, Katalie136_77, AbbysRanger_77, Perplexer_77, Backyardigan_75, Druantia_79, Badger_76, Wizard007_77, Bumblebee11_76, BellusTerra_81, Cici_77, PetiteSangsue_77
• Track 34 : Melvin_83, Skipitt_80
• Track 35 : Millski_80, Thanksgivukkah_80, MeeZee_80
• Track 36 : Stink_81
• Track 37 : Rosa24_77
• Track 38 : Noelle_78
• Track 39 : Mundrea_79, AvatarAhPeg_81
• Track 40 : Cindaradix_76
• Track 41 : ICleared_80
• Track 42 : Arturo_78
• Track 43 : Lunsford_81
• Track 44 : McFly_84, DaVinci_82, Cookiedough_84, Neeharika16_83, Chartreuse_83, Dorothea_84, Kipper29_84, BABullseye_77
• Track 45 : Rifter_86, Gruunaga_85, Hexamo_85, Gladiator_82
• Track 46 : Jordennis_82, Hoot_79, Pmask_83, Kazan_85, SuperAwesome_84, VohminGhazi_84, GreedyLawyer_78, Newrala_83, Imbriano_85, Candra_85, SmellyB_84
• Track 47 : ToneTone_83, Wiks_85, Artemis2UCLA_85, WunderPhul_86, Helmet_88, Temprado_87, Zulu_87, Lilbunny_85, Blue7_87, Roksolana_86, Zaka_86, BlessJoy_86, Tucker_86, Indra_89, Koko_87, Yokurt_85, BennyP_86, Garak_87
• Track 48 : CloudWang3_86, Hammer_86
• Track 49 : Blinn1_88
• Track 50 : Sheen_78, Toro_79
• Track 51 : Timshel_78
• Track 52 : HINdeR_77
• Track 53 : FlyCatcher_81
• Track 54 : DroogsArmy_77
• Track 55 : NoShow_78
• Track 56 : Francob_244, Maupel_243, Gilson_240, MeganTheeKilla_243
• Track 57 : Patelgo_242
• Track 58 : Belfort_237, Comrade_233, Karp_236, SparkleGoddess_238, Stigma_236
• Track 59 : SeresaTree_242, Faust_238
• Track 60 : Phredrick_245

• Track 61 : Sham_228
• Track 62 : Forrest_239, Emma1919_241, DeluluLabubu_241, Jada_238
• Track 63 : Kenrey_246
• Track 64 : Westy_239
• Track 65 : Moab_243
• Track 66 : Muntaha_214
• Track 67 : BillNye_199
• Track 68 : Circinus_199
• Track 69 : Wakanda_212
• Track 70 : Chaewon_203
• Track 71 : ScoobyDoobyDoo_227
• Track 72 : Myrna_230, Greely_237
• Track 73 : Phabba_240
• Track 74 : Francesca_236, Dorin_235
• Track 75 : Hexbug_40
• Track 76 : GTE2_26
• Track 77 : Emalyn_30
• Track 78 : Nodigi_40
• Track 79 : RanchParmCat_38
• Track 80 : GiKK_37
• Track 81 : Margaret_39
• Track 82 : Amok_31
• Track 83 : Orla_40
• Track 84 : Yakult_36
• Track 85 : AikoCarson_31
• Track 86 : Jamzy_37, Button_35
• Track 87 : Coldpizza_72
• Track 88 : Evaa_73
• Track 89 : Mimi_213, Talia1610_215
• Track 90 : Chilliams_328, Chilliams_37
• Track 91 : Patbob_211
• Track 92 : Rockabye_37, Rockabye_334
• Track 93 : Bloom_218
• Track 94 : SJReid_40, SJReid_349
• Track 95 : GoldenEssence_202
• Track 96 : Phrampa_207
• Track 97 : Racecar_215, FrostedClock_215
• Track 98 : FloraSnap32_208
• Track 99 : SJReid_221
• Track 100 : Chilliams_215
• Track 101 : Rockabye_216
• Track 102 : Cece_19, Cece_321
• Track 103 : Yunkel11_82, Efra2_83
• Track 104 : DartGoblin_77, Anma_75, Bella96_77, TiniBug_76, SamuelLPlaqson_76, Urkel_76, DrHayes_76
• Track 105 : Llorens_76, CaseJules_78, Boiiii_76, BEEST_76, Asayake_76, Topper_76, Dalmuri_76, Twitch_76, Blizzard_76, Homura_75, ShiaSurprise_77, Joy99_77, Peel_76, Belladonna_76, AlishaPH_75, Jeckyll_76, HedwigODU_76, Atiba_77, Hyperbowlee_75, Lokum_76, Durfee_76, Piatt_75, Capricorn_76, Tachez_76, Zabiza_72, CREW_75, Jarvi_76, Rosmarinus_76, Spock_76, Lunahalos_76, Adephagia_75, Padfoot_76, BaghaKamala_75, Inky_76, CallaLilly_76, ActinUp_77, BGlluviae_76
• Track 106 : LastHope_83

• Track 107 : Rapunzel97_79, Slimphazie_78, Apocalypse_79, BarrelRoll_77, TruffulaTree_78, CheetoDust_76, JAWS_75, Veliki_77, Deby_76, Mynx_78, Ramen_77, Pokerus_77, Jayhawk_79
• Track 108 : Shaobing_79, McMater_79, Richo_79, Niklas_80, Peanam_80, Dartin_79
• Track 109 : Validus_82
• Track 110 : Chavito_79
• Track 111 : LeMond_78, Oscar_78, Scarlett_79, KiSi_79
• Track 112 : Anaya_80
• Track 113 : Emerson_79, Prithvi_79, LindNT_75, Padpat_80, TreyKay_79
• Track 114 : TingHuaYa_80
• Track 115 : Nibb_78
• Track 116 : MarkPhew_78
• Track 117 : Murucutumbu_77
• Track 118 : Guanica15_82
• Track 119 : Zavala_79
• Track 120 : Milly_82, Strobilo_83, Marcoliusprime_81, DismalFunk_82, DismalStressor_82, Findley_82
• Track 121 : ZoeJ_81
• Track 122 : Doughnut_82
• Track 123 : TM4_80
• Track 124 : BoostSeason_81, Mufasa_81
• Track 125 : Pixie_78, ShedlockHolmes_81, TBond007_75, Lea83_79, Hurricane_79, Keshu_81
• Track 126 : Pharb_77
• Track 127 : TribleTrouble_78
• Track 128 : MacnCheese_81
• Track 129 : Slarp_81, Cheetobro_81, Qhanda_83, Taquito_80
• Track 130 : Mitti_81, Eponine_83, DanSyl44_84, Fionnbharth_81
• Track 131 : Patt_77, Reptar3000_78
• Track 132 : YasnayaPolyana_80, Lebo14_80, Nolwazi_83
• Track 133 : Juliette_83
• Track 134 : JF1_81, Ruthiejr_82
• Track 135 : Chancellor_81
• Track 136 : SamScheppers_80
• Track 137 : Kraw_81
• Track 138 : MissDaisy_78
• Track 139 : Bobquesha_82
• Track 140 : OmniCritical_81
• Track 141 : Wintermute_81
• Track 142 : Y2_78, Y10_78
• Track 143 : Malthus_82
• Track 144 : Phrank_82, Tierra_81, Bryler_82, Cain_82
• Track 145 : Krueger_83, Tigress9_83
• Track 146 : PhelpsODU_81, Unicorn_81
• Track 147 : Sunflower1121_82, Shadow1_83
• Track 148 : SirPhilip_90
• Track 149 : Marshawn_75
• Track 150 : Ximenita_84, Syra333_82
• Track 151 : TClif_92
• Track 152 : Ekdilam_84
• Track 153 : Yuna_80

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

The start number called the most often in the published annotations is 60, it was called in 158 of the 434 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbysRanger_77, Abdiel_80, Achebe_76, Albee_81, Alberto7_82, Annyong_80, Arturo_78, AvatarAhPeg_81, Avle17_81, Baby16_81, Backyardigan_75, Bactobuster_76, Badger_76, BangNhom_78, Bartimeaus_81, BellusTerra_81, Blackmoor_80, Bombshell_81, Broseidon_81, Bruiser_80, BubbleTrouble_80, Buckaroo_77, Bumblebee11_76, Burger_79, Caelakin_79, Camperdownii_77, CentreCat_81, Cerulean_83, ChampagnePapi_84, Chaph_81, Cici_77, Cindaradix_76, Cintron_81, Citius_81, Clarenza_80, Cocoaberry_81, Commander_79, Connomayer_81, Datway_78, Deano_78, Dhanush_81, DirtyDunning_80, DontArgue_75, Drake94_77, Druantia_79, DustyMartin_82, Eagle_80, Eaglepride_83, Eapen_81, Eris_80, Eros_81, Eurydice_82, Florean_81, Flux_82, Funston_80, Gadost_81, HamSlice_77, Happiness_80, Holli_80, Houdini22_80, Huxley_73, ICleared_80, Iceman_79, Iracema64_81, IronMan_81, Iwokeuplikedis_87, Jaan_82, Jaykayelowell_78, JetBlade_82, JoongJeon_80, Junimo_77, KFPoly_80, Kampy_80, Katalie136_77, KekoraPapaka_78, Kingmustik0402_81, KittenMittens_76, Koan_78, Koreni_80, Kratark_80, Kremtemulon_78, Kristoff_78, Kyee_81, LHTSCC_83, Landor_82, LappelDuVide_81, Lemur_81, LittleB_81, LittleGuy_81, LochMonster_82, Lorenzo_81, Lunsford_81, Maverick_80, Maxo_83, Mazhar510_81, Medusa_80, MeeZee_80, Millski_80, Morpher26_77, Morrow_83, Mundrea_79, Nebs_82, Nemo27_80, NorthStar_78, Northrop_78, NotAPhaseMom_80, Nyxis_80, OKaNui_80, Obama12_82, Ohfah_82, Palestino_80, PeaceMeal1_77, Peaches_79, Perplexer_77, PeterPeter_81, PetiteSangsue_77, Phacado_81, Phaded_78, Phelipe_81, Phighter1804_81, Phontbonne_81, Pipcraft_77, Polymorphads_82, Poompha_77, Pukovnik_79, Pumbaa_81, Rebeuca_81, Relief_80, RhynO_68, RockieBear_81, Rocksand_78, Romney_80, Roosevelt_79, Rowdy_82, Ruin_81, Sabertooth_81, Scamp_81, SenorClean_82, Severus_78, Shaka_79, Shapes_82, SheldonCooper_81, Shygu2_79, Skadoosh_78, Sparxx_82, Spino_80, Stasia_78, SteMason_81, Stink_81, Sultana_81, Taquarus_80, Thanksgivukkah_80, TinaFeyge_79, Tinybot_80, TiroTheta9_80, Topanga_69, Tristan_80, TroyPia_82, Twister_80, TygerBlood_81, Ulysses_80, WalterMcMickey_79, Wander_81, Wilbur_81, Wile_76, Wizard007_77, Xena_77, YoSam321_81,

Genes that have the "Most Annotated" start but do not call it:
• AikoCarson_31, Amok_31, Emalyn_30, Melvin_83, Miramae_81, NoShow_78, Noelle_78, Rosa24_77, Skipitt_80,

Genes that do not have the "Most Annotated" start:
• ActinUp_77, Adephagia_75, AlishaPH_75, Anaya_80, Anaysia_87, Anma_75, Anon_90, Apocalypse_79, Artemis2UCLA_85, Asayake_76, Atiba_77, BABullseye_77, BEEST_76, BGlluviae_76, BaghaKamala_75, BarrelRoll_77, Battleship_90, Belfort_237, Bella96_77, Belladonna_76, BennyP_86, BillNye_199, BlessJoy_86, Blinn1_88, Blizzard_76, Bloom_218, Blue7_87, Bobquesha_82, Boiiii_76, Boohoo_86, BoostSeason_81, Bryler_82, Button_35, CREW_75, Cain_82, CallaLilly_76, Candra_85, Capricorn_76, CaseJules_78, Cece_19, Cece_321,

Chaewon_203, Chancellor_81, Chartreuse_83, Chavito_79, CheetoDust_76, Cheetobro_81, Chilliams_215, Chilliams_328, Chilliams_37, Chupacabra_77, Circinus_199, CloudWang3_86, Coldpizza_72, Comrade_233, Cookiedough_84, DaVinci_82, Dalmuri_76, DanSyl44_84, DartGoblin_77, Dartin_79, Deby_76, DekHockey33_89, DeluluLabubu_241, DismalFunk_82, DismalStressor_82, Dorin_235, Dorothea_84, Doughnut_82, DrHayes_76, DroogsArmy_77, Durfee_76, Efra2_83, Ekdilam_84, Elle_85, Emerson_79, Emma1919_241, Eponine_83, Evaa_73, Faust_238, Findley_82, Fionnbharth_81, FloraSnap32_208, FlyCatcher_81, Forrest_239, Francesca_236, Francob_244, FrostedClock_215, GTE2_26, Gail_85, Garak_87, GiKK_37, Gilson_240, Gladiator_82, GoldenEssence_202, Goose_81, GreedyLawyer_78, Greely_237, Gruunaga_85, Guanica15_82, HINdeR_77, Hammer_86, HedwigODU_76, Helmet_88, Herbertwm_78, Hexamo_85, Hexbug_40, Homura_75, Hoot_79, Hurricane_79, Hyperbowlee_75, Imbriano_85, Indra_89, Inky_76, JAWS_75, JF1_81, JSwag_87, Jada_238, Jamzy_37, Jarvi_76, Jayhawk_79, Jeckyll_76, Jeeves_85, Jordennis_82, Joy99_77, Juliette_83, Karp_236, KatherineG_87, Kazan_85, Kenrey_246, Keshu_81, KiSi_79, Kimona_81, Kipper29_84, Koko_87, Kraw_81, Krueger_83, LastHope_83, LastResort_85, LeMond_78, Lea83_79, Lebo14_80, Lilbunny_85, LindNT_75, Llorens_76, Lokum_76, Luchador_83, Lunahalos_76, MacnCheese_81, Malthus_82, Marcoliusprime_81, Margaret_39, MarkPhew_78, Marshawn_75, Maupel_243, McFly_84, McMater_79, MeganTheeKilla_243, Milly_82, Mimi_213, MinecraftSteve_88, MissDaisy_78, Mitti_81, Moab_243, Mufasa_81, Muntaha_214, Murucutumbu_77, Mynx_78, Myrna_230, Nebulosus_84, Neeharika16_83, Newrala_83, Nibb_78, Niklas_80, Nodigi_40, Nolwazi_83, OKCentral2016_79, OmniCritical_81, Orla_40, Oscar_78, Padfoot_76, Padpat_80, Patbob_211, Patelgo_242, Patt_77, Peanam_80, Peel_76, Phabba_240, Pharb_77, PhelpsODU_81, Phrampa_207, Phrank_82, Phredrick_245, Piatt_75, Pixie_78, Pmask_83, Pokerus_77, Prithvi_79, Qhanda_83, Racecar_215, Ramen_77, RanchParmCat_38, Rapunzel97_79, ReMo_85, Reptar3000_78, Richo_79, Rifter_86, Rockabye_216, Rockabye_334, Rockabye_37, Roksolana_86, Rosmarinus_76, Ruthiejr_82, SJReid_221, SJReid_349, SJReid_40, SamScheppers_80, SamuelLPlaqson_76, Scarlett_79, ScoobyDoobyDoo_227, SeresaTree_242, Shadow1_83, Sham_228, Shaobing_79, ShayRa_85, ShedlockHolmes_81, Sheen_78, ShiaSurprise_77, SirPhilip_90, Slarp_81, Slimphazie_78, SmellyB_84, SororFago_83, SparkleGoddess_238, Spock_76, Stigma_236, Strobilo_83, Sunflower1121_82, Sunhee_85, SuperAwesome_84, Switzerland_85, Syra333_82, TBond007_75, TClif_92, TM4_80, Tachez_76, Talia1610_215, Taquito_80, Temprado_87, Tierra_81, Tigress9_83, Timshel_78, TingHuaYa_80, TiniBug_76, ToneTone_83, Topper_76, Toro_79, TreyKay_79, TribleTrouble_78, TruffulaTree_78, Tucker_86, Twitch_76, Unicorn_81, Urkel_76, Validus_82, Veliki_77, VohminGhazi_84, Waits_87, Wakanda_212, Westy_239, Wiks_85, Wintermute_81, WunderPhul_86, Ximenita_84, Y10_78, Y2_78, Yakult_36, YasnayaPolyana_80, Yokurt_85, Yuna_80, Yunkel11_82, Zabiza_72, Zaka_86, Zavala_79, ZoeJ_81, Zulu_87,

Summary by start number:

Start 1:
• Found in 2 of 463 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 434
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Coldpizza_72 (DR), Evaa_73 (DR),

Start 6:
• Found in 7 of 463 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 434
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Bloom_218 (FC), GoldenEssence_202 (FC),

Start 19:
• Found in 2 of 463 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 434
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Margaret_39 (CT),

Start 24:
• Found in 3 of 463 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 434
• Called 33.3% of time when present
• Phage (with cluster) where this start called: GiKK_37 (CT),

Start 25:
• Found in 12 of 463 (2.6%) of genes in pham
• Manual Annotations of this start: 9 of 434
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Chilliams_215 (FC), FloraSnap32_208 (FC), FrostedClock_215 (FC), Mimi_213 (FC), Patbob_211 (FC), Phrampa_207 (FC), Racecar_215 (FC), Rockabye_216 (FC), SJReid_221 (FC), Talia1610_215 (FC),

Start 27:
• Found in 1 of 463 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 434
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NoShow_78 (AB),

Start 28:
• Found in 13 of 463 (2.8%) of genes in pham
• Manual Annotations of this start: 9 of 434
• Called 76.9% of time when present
• Phage (with cluster) where this start called: AikoCarson_31 (CT), Amok_31 (CT), Button_35 (CT), Emalyn_30 (CT), GTE2_26 (CT), Hexbug_40 (CT), Jamzy_37 (CT), Nodigi_40 (CT), Orla_40 (CT), RanchParmCat_38 (CT),

Start 29:
• Found in 16 of 463 (3.5%) of genes in pham
• Manual Annotations of this start: 15 of 434
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chavito_79 (K1), Dartin_79 (K1), Krueger_83 (K6), McMater_79 (K1), Niklas_80 (K1), Peanam_80 (K1), Richo_79 (K1), Shadow1_83 (K6), Shaobing_79 (K1), SirPhilip_90 (K6), Sunflower1121_82 (K6), Syra333_82 (K6), Tigress9_83 (K6), Validus_82 (K1), Ximenita_84 (K6), Yuna_80 (K6),

Start 30:
• Found in 16 of 463 (3.5%) of genes in pham

• Manual Annotations of this start: 16 of 434
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ekdilam_84 (K6), Hurricane_79 (K3), Keshu_81 (K3), KiSi_79 (K1), LeMond_78 (K1), Lea83_79 (K3), MacnCheese_81 (K3), MarkPhew_78 (K1), Marshawn_75 (K6), Nibb_78 (K1), Oscar_78 (K1), Pixie_78 (K3), Scarlett_79 (K1), ShedlockHolmes_81 (K3), TBond007_75 (K3), TribleTrouble_78 (K3),

Start 57:
• Found in 155 of 463 (33.5%) of genes in pham
• Manual Annotations of this start: 3 of 434
• Called 1.9% of time when present
• Phage (with cluster) where this start called: Melvin_83 (A4), Miramae_81 (A4), Skipitt_80 (A4),

Start 58:
• Found in 3 of 463 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: FlyCatcher_81 (A7),

Start 59:
• Found in 10 of 463 (2.2%) of genes in pham
• Manual Annotations of this start: 8 of 434
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Chupacabra_77 (A10), DroogsArmy_77 (A7), Goose_81 (A10), HINdeR_77 (A7), Herbertwm_78 (A2), OKCentral2016_79 (A10), Sheen_78 (A7), Timshel_78 (A7), Toro_79 (A7),

Start 60:
• Found in 177 of 463 (38.2%) of genes in pham
• Manual Annotations of this start: 158 of 434
• Called 94.9% of time when present
• Phage (with cluster) where this start called: AbbysRanger_77 (A4), Abdiel_80 (A4), Achebe_76 (A4), Albee_81 (A4), Alberto7_82 (A4), Annyong_80 (A4), Arturo_78 (A4), AvatarAhPeg_81 (A4), Avle17_81 (A4), Baby16_81 (A4), Backyardigan_75 (A4), Bactobuster_76 (A2), Badger_76 (A4), BangNhom_78 (A4), Bartimeaus_81 (A4), BellusTerra_81 (A4), Blackmoor_80 (A4), Bombshell_81 (A4), Broseidon_81 (A4), Bruiser_80 (A4), BubbleTrouble_80 (A4), Buckaroo_77 (A4), Bumblebee11_76 (A4), Burger_79 (A4), Caelakin_79 (A4), Camperdownii_77 (A4), CentreCat_81 (A4), Cerulean_83 (A4), ChampagnePapi_84 (A4), Chaph_81 (A4), Cici_77 (A4), Cindaradix_76 (A4), Cintron_81 (A4), Citius_81 (A4), Clarenza_80 (A4), Cocoaberry_81 (A4), Commander_79 (A4), Connomayer_81 (A4), Datway_78 (A4), Deano_78 (A4), Dhanush_81 (A4), DirtyDunning_80 (A4), DontArgue_75 (A10), Drake94_77 (A10), Druantia_79 (A4), DustyMartin_82 (A10), Eagle_80 (A4), Eaglepride_83 (A10), Eapen_81 (A4), Eris_80 (A4), Eros_81 (A4), Eurydice_82 (A4), Florean_81 (A4), Flux_82 (A4), Funston_80 (A4), Gadost_81 (A4), HamSlice_77 (A4), Happiness_80 (A4), Holli_80 (A4), Houdini22_80 (A4), Huxley_73 (A4), ICleared_80 (A4), Iceman_79 (A4), Iracema64_81 (A4), IronMan_81 (A2), Iwokeuplikedis_87 (A2), Jaan_82 (A2), Jaykayelowell_78 (A4), JetBlade_82 (A4), JoongJeon_80 (A4), Junimo_77 (A4), KFPoly_80 (A4), Kampy_80 (A4), Katalie136_77 (A4), KekoraPapaka_78 (A4), Kingmustik0402_81 (A4), KittenMittens_76 (A10), Koan_78 (A4), Koreni_80 (A4), Kratark_80 (A4), Kremtemulon_78 (A4), Kristoff_78 (A10),

Kyee_81 (A4), LHTSCC_83 (A4), Landor_82 (A2), LappelDuVide_81 (A4), Lemur_81 (A4), LittleB_81 (A4), LittleGuy_81 (A4), LochMonster_82 (A4), Lorenzo_81 (A4), Lunsford_81 (A4), Maverick_80 (A4), Maxo_83 (A4), Mazhar510_81 (A4), Medusa_80 (A4), MeeZee_80 (A4), Millski_80 (A4), Morpher26_77 (A4), Morrow_83 (A4), Mundrea_79 (A4), Nebs_82 (A4), Nemo27_80 (A4), NorthStar_78 (A4), Northrop_78 (A4), NotAPhaseMom_80 (A4), Nyxis_80 (A4), OKaNui_80 (A4), Obama12_82 (A4), Ohfah_82 (A4), Palestino_80 (A4), PeaceMeal1_77 (A10), Peaches_79 (A4), Perplexer_77 (A4), PeterPeter_81 (A4), PetiteSangsue_77 (A4), Phacado_81 (A4), Phaded_78 (A2), Phelipe_81 (A4), Phighter1804_81 (A4), Phontbonne_81 (A4), Pipcraft_77 (A4), Polymorphads_82 (A4), Poompha_77 (A10), Pukovnik_79 (A2), Pumbaa_81 (A4), Rebeuca_81 (A10), Relief_80 (A4), RhynO_68 (A10), RockieBear_81 (A4), Rocksand_78 (A4), Romney_80 (A4), Roosevelt_79 (A4), Rowdy_82 (A10), Ruin_81 (A4), Sabertooth_81 (A4), Scamp_81 (A4), SenorClean_82 (A4), Severus_78 (A10), Shaka_79 (A4), Shapes_82 (A10), SheldonCooper_81 (A4), Shygu2_79 (A4), Skadoosh_78 (A4), Sparxx_82 (A4), Spino_80 (A4), Stasia_78 (A4), SteMason_81 (A4), Stink_81 (A4), Sultana_81 (A4), Taquarus_80 (A4), Thanksgivukkah_80 (A4), TinaFeyge_79 (A4), Tinybot_80 (A4), TiroTheta9_80 (A4), Topanga_69 (A10), Tristan_80 (A2), TroyPia_82 (A4), Twister_80 (A10), TygerBlood_81 (A4), Ulysses_80 (A4), WalterMcMickey_79 (A10), Wander_81 (A4), Wilbur_81 (A4), Wile_76 (A4), Wizard007_77 (A4), Xena_77 (A4), YoSam321_81 (A4),

Start 61:
• Found in 15 of 463 (3.2%) of genes in pham
• Manual Annotations of this start: 15 of 434
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anaysia_87 (A15), Anon_90 (A15), Battleship_90 (A15), Boohoo_86 (A15), DekHockey33_89 (A15), Elle_85 (A15), JSwag_87 (A15), KatherineG_87 (A15), LastResort_85 (A15), MinecraftSteve_88 (A15), Nebulosus_84 (A15), ReMo_85 (A15), ShayRa_85 (A15), Switzerland_85 (A15), Waits_87 (A15),

Start 64:
• Found in 72 of 463 (15.6%) of genes in pham
• Manual Annotations of this start: 43 of 434
• Called 61.1% of time when present
• Phage (with cluster) where this start called: Artemis2UCLA_85 (A6), BABullseye_77 (A6), BennyP_86 (A6), BlessJoy_86 (A6), Blinn1_88 (A6), Blue7_87 (A6), Candra_85 (A6), Chartreuse_83 (A6), Cookiedough_84 (A6), DaVinci_82 (A6), Dorothea_84 (A6), Garak_87 (A6), Gladiator_82 (A6), GreedyLawyer_78 (A6), Gruunaga_85 (A6), Helmet_88 (A6), Hexamo_85 (A6), Hoot_79 (A6), Imbriano_85 (A6), Indra_89 (A6), JF1_81 (K4), Jordennis_82 (A6), Kazan_85 (A6), Kipper29_84 (A6), Koko_87 (A6), Lilbunny_85 (A6), McFly_84 (A6), Neeharika16_83 (A6), Newrala_83 (A6), Pmask_83 (A6), Rifter_86 (A6), Roksolana_86 (A6), Ruthiejr_82 (K4), SmellyB_84 (A6), SuperAwesome_84 (A6), Temprado_87 (A6), ToneTone_83 (A6), Tucker_86 (A6), VohminGhazi_84 (A6), Wiks_85 (A6), WunderPhul_86 (A6), Yokurt_85 (A6), Zaka_86 (A6), Zulu_87 (A6),

Start 66:
• Found in 159 of 463 (34.3%) of genes in pham
• Manual Annotations of this start: 1 of 434
• Called 1.3% of time when present
• Phage (with cluster) where this start called: Noelle_78 (A4), Rosa24_77 (A4),

Start 67:
• Found in 68 of 463 (14.7%) of genes in pham
• Manual Annotations of this start: 66 of 434
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ActinUp_77 (K1), Adephagia_75 (K1), AlishaPH_75 (K1), Anma_75 (K1), Apocalypse_79 (K1), Asayake_76 (K1), Atiba_77 (K1), BEEST_76 (K1), BGlluviae_76 (K1), BaghaKamala_75 (K1), BarrelRoll_77 (K1), Bella96_77 (K1), Belladonna_76 (K1), Blizzard_76 (K1), Boiiii_76 (K1), CREW_75 (K1), CallaLilly_76 (K1), Capricorn_76 (K1), CaseJules_78 (K1), CheetoDust_76 (K1), Dalmuri_76 (K1), DartGoblin_77 (K1), Deby_76 (K1), DrHayes_76 (K1), Durfee_76 (K1), Efra2_83 (K1), Emerson_79 (K1), Guanica15_82 (K1), HedwigODU_76 (K1), Homura_75 (K1), Hyperbowlee_75 (K1), Inky_76 (K1), JAWS_75 (K1), Jarvi_76 (K1), Jayhawk_79 (K1), Jeckyll_76 (K1), Joy99_77 (K1), LastHope_83 (K1), LindNT_75 (K1), Llorens_76 (K1), Lokum_76 (K1), Lunahalos_76 (K1), Mynx_78 (K1), Padfoot_76 (K1), Padpat_80 (K1), Peel_76 (K1), Piatt_75 (K1), Pokerus_77 (K1), Prithvi_79 (K1), Ramen_77 (K1), Rapunzel97_79 (K1), Rosmarinus_76 (K1), SamuelLPlaqson_76 (K1), ShiaSurprise_77 (K1), Slimphazie_78 (K1), Spock_76 (K1), Tachez_76 (K1), TingHuaYa_80 (K1), TiniBug_76 (K1), Topper_76 (K1), TreyKay_79 (K1), TruffulaTree_78 (K1), Twitch_76 (K1), Urkel_76 (K1), Veliki_77 (K1), Yunkel11_82 (K1), Zabiza_72 (K1), Zavala_79 (K1),

Start 68:
• Found in 3 of 463 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 434
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Anaya_80 (K1), Murucutumbu_77 (K1),

Start 69:
• Found in 200 of 463 (43.2%) of genes in pham
• Manual Annotations of this start: 23 of 434
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Bryler_82 (K6), Cain_82 (K6), Chancellor_81 (K4), Cheetobro_81 (K4), DanSyl44_84 (K4), Eponine_83 (K4), Fionnbharth_81 (K4), Gail_85 (A14), Jeeves_85 (A14), Luchador_83 (A14), Malthus_82 (K4), Mitti_81 (K4), Patt_77 (K4), PhelpsODU_81 (K6), Phrank_82 (K6), Qhanda_83 (K4), Reptar3000_78 (K4), Slarp_81 (K4), SororFago_83 (A14), Sunhee_85 (A14), Taquito_80 (K4), Tierra_81 (K6), Unicorn_81 (K6), Wintermute_81 (K4), Yakult_36 (CT),

Start 70:
• Found in 1 of 463 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 434
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kimona_81 (A19),

Start 72:
• Found in 33 of 463 (7.1%) of genes in pham
• Manual Annotations of this start: 12 of 434
• Called 45.5% of time when present
• Phage (with cluster) where this start called: Bobquesha_82 (K4), Greely_237 (C2), Juliette_83 (K4), Lebo14_80 (K4), MissDaisy_78 (K4), Myrna_230 (C2), Nolwazi_83 (K4), OmniCritical_81 (K4), Phabba_240 (C2), Pharb_77 (K3), SamScheppers_80

(K4), ScoobyDoobyDoo_227 (C2), Y10_78 (K4), Y2_78 (K4), YasnayaPolyana_80 (K4),

Start 73:
• Found in 20 of 463 (4.3%) of genes in pham
• Manual Annotations of this start: 12 of 434
• Called 60.0% of time when present
• Phage (with cluster) where this start called: BoostSeason_81 (K2), DismalFunk_82 (K2), DismalStressor_82 (K2), Doughnut_82 (K2), Findley_82 (K2), Marcoliusprime_81 (K2), Milly_82 (K2), Mufasa_81 (K2), Strobilo_83 (K2), TClif_92 (K6), TM4_80 (K2), ZoeJ_81 (K2),

Start 77:
• Found in 6 of 463 (1.3%) of genes in pham
• Manual Annotations of this start: 2 of 434
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Chilliams_328 (FC), Chilliams_37 (FC), Rockabye_334 (FC), Rockabye_37 (FC),

Start 78:
• Found in 4 of 463 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 434
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Cece_19 (GD3), Cece_321 (GD3),

Start 79:
• Found in 21 of 463 (4.5%) of genes in pham
• Manual Annotations of this start: 19 of 434
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Belfort_237 (BK1), Comrade_233 (BK1), DeluluLabubu_241 (BK1), Emma1919_241 (BK1), Faust_238 (BK1), Forrest_239 (BK1), Francob_244 (BK1), Gilson_240 (BK1), Jada_238 (BK1), Karp_236 (BK1), Kenrey_246 (BK1), Maupel_243 (BK1), MeganTheeKilla_243 (BK1), Moab_243 (BK1), Patelgo_242 (BK1), Phredrick_245 (BK1), SeresaTree_242 (BK1), Sham_228 (BK1), SparkleGoddess_238 (BK1), Stigma_236 (BK1), Westy_239 (BK1),

Start 80:
• Found in 2 of 463 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 434
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SJReid_349 (FC), SJReid_40 (FC),

Start 81:
• Found in 413 of 463 (89.2%) of genes in pham
• Manual Annotations of this start: 10 of 434
• Called 2.4% of time when present
• Phage (with cluster) where this start called: BillNye_199 (BK2), Chaewon_203 (BK2), Circinus_199 (BK2), CloudWang3_86 (A6), Dorin_235 (CG), Francesca_236 (CG), Hammer_86 (A6), Kraw_81 (K4), Muntaha_214 (BK2), Wakanda_212 (BK2),

Summary by clusters:

There are 22 clusters represented in this pham: GD3, K3, K2, K1, FC, K6, K4, DR, A15, A14, A10, A19, A2, A4, A7, A6, C2, AB, CG, BK1, BK2, CT,

Info for manual annotations of cluster A10:
•Start number 59 was manually annotated 3 times for cluster A10.
•Start number 60 was manually annotated 12 times for cluster A10.

Info for manual annotations of cluster A14:
•Start number 69 was manually annotated 5 times for cluster A14.

Info for manual annotations of cluster A15:
•Start number 61 was manually annotated 15 times for cluster A15.

Info for manual annotations of cluster A19:
•Start number 70 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 59 was manually annotated 1 time for cluster A2.
•Start number 60 was manually annotated 8 times for cluster A2.

Info for manual annotations of cluster A4:
•Start number 57 was manually annotated 3 times for cluster A4.
•Start number 60 was manually annotated 138 times for cluster A4.
•Start number 66 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A6:
•Start number 64 was manually annotated 41 times for cluster A6.
•Start number 81 was manually annotated 2 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 59 was manually annotated 4 times for cluster A7.

Info for manual annotations of cluster AB:
•Start number 27 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster BK1:
•Start number 79 was manually annotated 19 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 81 was manually annotated 5 times for cluster BK2.

Info for manual annotations of cluster C2:
•Start number 72 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster CG:
•Start number 81 was manually annotated 2 times for cluster CG.

Info for manual annotations of cluster CT:
•Start number 19 was manually annotated 1 time for cluster CT.
•Start number 24 was manually annotated 1 time for cluster CT.
•Start number 28 was manually annotated 9 times for cluster CT.
•Start number 69 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster DR:
•Start number 1 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster FC:
•Start number 6 was manually annotated 1 time for cluster FC.
•Start number 25 was manually annotated 9 times for cluster FC.
•Start number 77 was manually annotated 2 times for cluster FC.
•Start number 80 was manually annotated 2 times for cluster FC.

Info for manual annotations of cluster GD3:
•Start number 78 was manually annotated 2 times for cluster GD3.

Info for manual annotations of cluster K1:
•Start number 29 was manually annotated 7 times for cluster K1.
•Start number 30 was manually annotated 6 times for cluster K1.
•Start number 67 was manually annotated 66 times for cluster K1.
•Start number 68 was manually annotated 2 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 73 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 30 was manually annotated 8 times for cluster K3.
•Start number 72 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K4:
•Start number 64 was manually annotated 2 times for cluster K4.
•Start number 69 was manually annotated 11 times for cluster K4.
•Start number 72 was manually annotated 8 times for cluster K4.
•Start number 81 was manually annotated 1 time for cluster K4.

Info for manual annotations of cluster K6:
•Start number 29 was manually annotated 8 times for cluster K6.
•Start number 30 was manually annotated 2 times for cluster K6.
•Start number 69 was manually annotated 6 times for cluster K6.
•Start number 73 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: AbbysRanger_77 Start: 47535, Stop: 47068, Start Num: 60
Candidate Starts for AbbysRanger_77:
(Start: 57 @47553 has 3 MA's), (Start: 60 @47535 has 158 MA's), (Start: 66 @47526 has 1 MA's), (Start: 69 @47523 has 23 MA's), (Start: 81 @47505 has 10 MA's), (91, 47466), (111, 47331), (119, 47268), (127, 47214),

Gene: Abdiel_80 Start: 47911, Stop: 47441, Start Num: 60
Candidate Starts for Abdiel_80:
(Start: 57 @47929 has 3 MA's), (Start: 60 @47911 has 158 MA's), (Start: 66 @47902 has 1 MA's), (Start: 69 @47899 has 23 MA's), (Start: 81 @47881 has 10 MA's), (91, 47842), (105, 47734), (111, 47707), (119, 47644), (127, 47590),

Gene: Achebe_76 Start: 47514, Stop: 47047, Start Num: 60
Candidate Starts for Achebe_76:
(Start: 57 @47532 has 3 MA's), (Start: 60 @47514 has 158 MA's), (Start: 66 @47505 has 1 MA's), (Start: 69 @47502 has 23 MA's), (Start: 81 @47484 has 10 MA's), (91, 47445), (111, 47310), (119, 47247), (127, 47193),

Gene: ActinUp_77 Start: 50506, Stop: 50967, Start Num: 67
Candidate Starts for ActinUp_77:
(Start: 67 @50506 has 66 MA's), (Start: 81 @50533 has 10 MA's), (84, 50542), (97, 50602), (103, 50665), (111, 50707), (112, 50710), (119, 50770), (135, 50848), (156, 50944), (157, 50947),

Gene: Adephagia_75 Start: 50343, Stop: 50804, Start Num: 67
Candidate Starts for Adephagia_75:
(Start: 67 @50343 has 66 MA's), (Start: 81 @50370 has 10 MA's), (84, 50379), (97, 50439), (103, 50502), (111, 50544), (112, 50547), (119, 50607), (135, 50685), (156, 50781), (157, 50784),

Gene: AikoCarson_31 Start: 24720, Stop: 24127, Start Num: 28
Candidate Starts for AikoCarson_31:
(Start: 28 @24720 has 9 MA's), (Start: 60 @24606 has 158 MA's), (Start: 81 @24567 has 10 MA's), (93, 24519), (99, 24465), (119, 24333),

Gene: Albee_81 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for Albee_81:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (105, 47722), (111, 47695), (119, 47632), (127, 47578),

Gene: Alberto7_82 Start: 48236, Stop: 47766, Start Num: 60
Candidate Starts for Alberto7_82:
(Start: 57 @48254 has 3 MA's), (Start: 60 @48236 has 158 MA's), (Start: 66 @48227 has 1 MA's), (Start: 69 @48224 has 23 MA's), (Start: 81 @48206 has 10 MA's), (91, 48167), (111, 48032), (119, 47969), (127, 47915),

Gene: AlishaPH_75 Start: 50604, Stop: 51065, Start Num: 67
Candidate Starts for AlishaPH_75:
(Start: 67 @50604 has 66 MA's), (Start: 81 @50631 has 10 MA's), (84, 50640), (97, 50700), (103, 50763), (111, 50805), (112, 50808), (119, 50868), (135, 50946), (156, 51042), (157, 51045),

Gene: Amok_31 Start: 24679, Stop: 24086, Start Num: 28
Candidate Starts for Amok_31:
(Start: 28 @24679 has 9 MA's), (Start: 60 @24565 has 158 MA's), (Start: 81 @24526 has 10 MA's), (93, 24478), (99, 24424), (119, 24292),

Gene: Anaya_80 Start: 51402, Stop: 51863, Start Num: 68
Candidate Starts for Anaya_80:
(Start: 68 @51402 has 2 MA's), (Start: 81 @51429 has 10 MA's), (84, 51438), (97, 51498), (103, 51561), (111, 51603), (112, 51606), (119, 51666), (135, 51744), (156, 51840), (157, 51843),

Gene: Anaysia_87 Start: 47291, Stop: 46824, Start Num: 61
Candidate Starts for Anaysia_87:
(Start: 61 @47291 has 15 MA's), (Start: 81 @47279 has 10 MA's), (91, 47240), (94, 47225),

Gene: Anma_75 Start: 50854, Stop: 51315, Start Num: 67

Candidate Starts for Anma_75:
(Start: 67 @50854 has 66 MA's), (Start: 81 @50881 has 10 MA's), (84, 50890), (90, 50917), (97, 50950), (103, 51013), (112, 51058), (135, 51196), (156, 51292), (157, 51295),

Gene: Annyong_80 Start: 47944, Stop: 47474, Start Num: 60
Candidate Starts for Annyong_80:
(Start: 57 @47962 has 3 MA's), (Start: 60 @47944 has 158 MA's), (Start: 66 @47935 has 1 MA's), (Start: 69 @47932 has 23 MA's), (Start: 81 @47914 has 10 MA's), (91, 47875), (105, 47767), (111, 47740), (119, 47677), (127, 47623),

Gene: Anon_90 Start: 48046, Stop: 47579, Start Num: 61
Candidate Starts for Anon_90:
(Start: 61 @48046 has 15 MA's), (Start: 81 @48034 has 10 MA's), (91, 47995), (119, 47794), (127, 47740),

Gene: Apocalypse_79 Start: 51145, Stop: 51606, Start Num: 67
Candidate Starts for Apocalypse_79:
(Start: 67 @51145 has 66 MA's), (Start: 81 @51172 has 10 MA's), (84, 51181), (97, 51241), (103, 51304), (111, 51346), (112, 51349), (135, 51487), (156, 51583), (157, 51586),

Gene: Artemis2UCLA_85 Start: 46023, Stop: 45562, Start Num: 64
Candidate Starts for Artemis2UCLA_85:
(Start: 64 @46023 has 43 MA's), (Start: 81 @45996 has 10 MA's), (95, 45936), (105, 45843), (124, 45729),

Gene: Arturo_78 Start: 48027, Stop: 47557, Start Num: 60
Candidate Starts for Arturo_78:
(Start: 57 @48045 has 3 MA's), (Start: 60 @48027 has 158 MA's), (Start: 66 @48018 has 1 MA's), (Start: 69 @48015 has 23 MA's), (74, 48000), (Start: 81 @47997 has 10 MA's), (91, 47958), (111, 47823), (127, 47706),

Gene: Asayake_76 Start: 50658, Stop: 51119, Start Num: 67
Candidate Starts for Asayake_76:
(Start: 67 @50658 has 66 MA's), (Start: 81 @50685 has 10 MA's), (84, 50694), (97, 50754), (103, 50817), (111, 50859), (112, 50862), (119, 50922), (135, 51000), (156, 51096), (157, 51099),

Gene: Atiba_77 Start: 50306, Stop: 50767, Start Num: 67
Candidate Starts for Atiba_77:
(Start: 67 @50306 has 66 MA's), (Start: 81 @50333 has 10 MA's), (84, 50342), (97, 50402), (103, 50465), (111, 50507), (112, 50510), (119, 50570), (135, 50648), (156, 50744), (157, 50747),

Gene: AvatarAhPeg_81 Start: 48152, Stop: 47682, Start Num: 60
Candidate Starts for AvatarAhPeg_81:
(Start: 57 @48170 has 3 MA's), (Start: 60 @48152 has 158 MA's), (Start: 73 @48125 has 12 MA's), (Start: 81 @48119 has 10 MA's), (94, 48065), (97, 48050), (111, 47945), (127, 47828),

Gene: Avle17_81 Start: 47893, Stop: 47423, Start Num: 60
Candidate Starts for Avle17_81:
(Start: 57 @47911 has 3 MA's), (Start: 60 @47893 has 158 MA's), (Start: 66 @47884 has 1 MA's), (Start: 69 @47881 has 23 MA's), (Start: 81 @47863 has 10 MA's), (91, 47824), (111, 47689), (127, 47572),

Gene: BABullseye_77 Start: 44344, Stop: 43892, Start Num: 64

Candidate Starts for BABullseye_77:
(Start: 64 @44344 has 43 MA's), (Start: 81 @44317 has 10 MA's), (97, 44251), (105, 44173), (135, 44005),

Gene: BEEST_76 Start: 50658, Stop: 51119, Start Num: 67
Candidate Starts for BEEST_76:
(Start: 67 @50658 has 66 MA's), (Start: 81 @50685 has 10 MA's), (84, 50694), (97, 50754), (103, 50817), (111, 50859), (112, 50862), (119, 50922), (135, 51000), (156, 51096), (157, 51099),

Gene: BGlluviae_76 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for BGlluviae_76:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: Baby16_81 Start: 47910, Stop: 47440, Start Num: 60
Candidate Starts for Baby16_81:
(Start: 57 @47928 has 3 MA's), (Start: 60 @47910 has 158 MA's), (Start: 66 @47901 has 1 MA's), (Start: 69 @47898 has 23 MA's), (Start: 81 @47880 has 10 MA's), (91, 47841), (105, 47733), (111, 47706), (119, 47643), (127, 47589),

Gene: Backyardigan_75 Start: 47551, Stop: 47084, Start Num: 60
Candidate Starts for Backyardigan_75:
(Start: 57 @47569 has 3 MA's), (Start: 60 @47551 has 158 MA's), (Start: 66 @47542 has 1 MA's), (Start: 69 @47539 has 23 MA's), (Start: 81 @47521 has 10 MA's), (91, 47482), (111, 47347), (119, 47284), (127, 47230),

Gene: Bactobuster_76 Start: 47201, Stop: 46731, Start Num: 60
Candidate Starts for Bactobuster_76:
(Start: 60 @47201 has 158 MA's), (Start: 66 @47192 has 1 MA's), (Start: 69 @47189 has 23 MA's), (Start: 81 @47177 has 10 MA's), (83, 47171), (119, 46937),

Gene: Badger_76 Start: 47517, Stop: 47050, Start Num: 60
Candidate Starts for Badger_76:
(Start: 57 @47535 has 3 MA's), (Start: 60 @47517 has 158 MA's), (Start: 66 @47508 has 1 MA's), (Start: 69 @47505 has 23 MA's), (Start: 81 @47487 has 10 MA's), (91, 47448), (111, 47313), (119, 47250), (127, 47196),

Gene: BaghaKamala_75 Start: 49892, Stop: 50353, Start Num: 67
Candidate Starts for BaghaKamala_75:
(Start: 67 @49892 has 66 MA's), (Start: 81 @49919 has 10 MA's), (84, 49928), (97, 49988), (103, 50051), (111, 50093), (112, 50096), (119, 50156), (135, 50234), (156, 50330), (157, 50333),

Gene: BangNhom_78 Start: 48336, Stop: 47866, Start Num: 60
Candidate Starts for BangNhom_78:
(Start: 57 @48354 has 3 MA's), (Start: 60 @48336 has 158 MA's), (Start: 66 @48327 has 1 MA's), (Start: 69 @48324 has 23 MA's), (Start: 81 @48306 has 10 MA's), (91, 48267), (111, 48132), (127, 48015),

Gene: BarrelRoll_77 Start: 50863, Stop: 51324, Start Num: 67
Candidate Starts for BarrelRoll_77:
(Start: 67 @50863 has 66 MA's), (Start: 81 @50890 has 10 MA's), (84, 50899), (97, 50959), (103, 51022), (111, 51064), (112, 51067), (135, 51205), (156, 51301), (157, 51304),

Gene: Bartimeaus_81 Start: 47901, Stop: 47431, Start Num: 60
Candidate Starts for Bartimeaus_81:
(Start: 57 @47919 has 3 MA's), (Start: 60 @47901 has 158 MA's), (Start: 66 @47892 has 1 MA's), (Start: 69 @47889 has 23 MA's), (Start: 81 @47871 has 10 MA's), (91, 47832), (105, 47724), (111, 47697), (119, 47634), (127, 47580),

Gene: Battleship_90 Start: 47304, Stop: 46837, Start Num: 61
Candidate Starts for Battleship_90:
(Start: 61 @47304 has 15 MA's), (Start: 81 @47292 has 10 MA's), (91, 47253), (94, 47238),

Gene: Belfort_237 Start: 115212, Stop: 115670, Start Num: 79
Candidate Starts for Belfort_237:
(76, 115209), (Start: 79 @115212 has 19 MA's), (91, 115251), (103, 115350), (106, 115368), (113, 115401), (117, 115428), (135, 115536), (160, 115656), (161, 115659),

Gene: Bella96_77 Start: 50721, Stop: 51182, Start Num: 67
Candidate Starts for Bella96_77:
(Start: 67 @50721 has 66 MA's), (Start: 81 @50748 has 10 MA's), (84, 50757), (90, 50784), (97, 50817), (103, 50880), (112, 50925), (135, 51063), (156, 51159), (157, 51162),

Gene: Belladonna_76 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for Belladonna_76:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: BellusTerra_81 Start: 47764, Stop: 47297, Start Num: 60
Candidate Starts for BellusTerra_81:
(Start: 57 @47782 has 3 MA's), (Start: 60 @47764 has 158 MA's), (Start: 66 @47755 has 1 MA's), (Start: 69 @47752 has 23 MA's), (Start: 81 @47734 has 10 MA's), (91, 47695), (111, 47560), (119, 47497), (127, 47443),

Gene: BennyP_86 Start: 46188, Stop: 45727, Start Num: 64
Candidate Starts for BennyP_86:
(Start: 64 @46188 has 43 MA's), (Start: 81 @46161 has 10 MA's), (95, 46101), (105, 46008), (124, 45894),

Gene: BillNye_199 Start: 106142, Stop: 106591, Start Num: 81
Candidate Starts for BillNye_199:
(56, 106085), (65, 106112), (Start: 81 @106142 has 10 MA's), (84, 106151), (88, 106166), (91, 106181), (149, 106526),

Gene: Blackmoor_80 Start: 47901, Stop: 47431, Start Num: 60
Candidate Starts for Blackmoor_80:
(Start: 57 @47919 has 3 MA's), (Start: 60 @47901 has 158 MA's), (Start: 66 @47892 has 1 MA's), (Start: 69 @47889 has 23 MA's), (Start: 81 @47871 has 10 MA's), (91, 47832), (105, 47724), (111, 47697), (119, 47634), (127, 47580),

Gene: BlessJoy_86 Start: 46544, Stop: 46083, Start Num: 64
Candidate Starts for BlessJoy_86:
(Start: 64 @46544 has 43 MA's), (Start: 81 @46517 has 10 MA's), (95, 46457), (105, 46364), (124, 46250),

Gene: Blinn1_88 Start: 47002, Stop: 46550, Start Num: 64

Candidate Starts for Blinn1_88:
(2, 47302), (3, 47290), (18, 47182), (Start: 64 @47002 has 43 MA's), (Start: 81 @46975 has 10 MA's), (97, 46909), (99, 46876), (105, 46831), (124, 46717),

Gene: Blizzard_76 Start: 50658, Stop: 51119, Start Num: 67
Candidate Starts for Blizzard_76:
(Start: 67 @50658 has 66 MA's), (Start: 81 @50685 has 10 MA's), (84, 50694), (97, 50754), (103, 50817), (111, 50859), (112, 50862), (119, 50922), (135, 51000), (156, 51096), (157, 51099),

Gene: Bloom_218 Start: 146279, Stop: 147025, Start Num: 6
Candidate Starts for Bloom_218:
(Start: 6 @146279 has 1 MA's), (Start: 25 @146357 has 9 MA's), (32, 146399), (39, 146429), (48, 146462), (129, 146852), (133, 146879), (154, 146990),

Gene: Blue7_87 Start: 46242, Stop: 45781, Start Num: 64
Candidate Starts for Blue7_87:
(Start: 64 @46242 has 43 MA's), (Start: 81 @46215 has 10 MA's), (95, 46155), (105, 46062), (124, 45948),

Gene: Bobquesha_82 Start: 49631, Stop: 50194, Start Num: 72
Candidate Starts for Bobquesha_82:
(14, 49424), (18, 49439), (26, 49475), (31, 49496), (36, 49523), (44, 49553), (Start: 69 @49622 has 23 MA's), (Start: 72 @49631 has 12 MA's), (Start: 81 @49646 has 10 MA's), (94, 49700), (97, 49715), (105, 49793), (111, 49820), (119, 49883), (135, 49961), (175, 50162),

Gene: Boiiii_76 Start: 50660, Stop: 51121, Start Num: 67
Candidate Starts for Boiiii_76:
(Start: 67 @50660 has 66 MA's), (Start: 81 @50687 has 10 MA's), (84, 50696), (97, 50756), (103, 50819), (111, 50861), (112, 50864), (119, 50924), (135, 51002), (156, 51098), (157, 51101),

Gene: Bombshell_81 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for Bombshell_81:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: Boohoo_86 Start: 46608, Stop: 46141, Start Num: 61
Candidate Starts for Boohoo_86:
(Start: 61 @46608 has 15 MA's), (Start: 81 @46596 has 10 MA's), (91, 46557), (94, 46542),

Gene: BoostSeason_81 Start: 52795, Stop: 53367, Start Num: 73
Candidate Starts for BoostSeason_81:
(Start: 73 @52795 has 12 MA's), (Start: 81 @52807 has 10 MA's), (105, 52954), (111, 52981), (112, 52984), (119, 53044), (172, 53308), (174, 53323),

Gene: Broseidon_81 Start: 47902, Stop: 47432, Start Num: 60
Candidate Starts for Broseidon_81:
(Start: 57 @47920 has 3 MA's), (Start: 60 @47902 has 158 MA's), (Start: 66 @47893 has 1 MA's), (Start: 69 @47890 has 23 MA's), (Start: 81 @47872 has 10 MA's), (91, 47833), (105, 47725), (111, 47698), (119, 47635), (127, 47581),

Gene: Bruiser_80 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for Bruiser_80:

(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (111, 47695), (127, 47578),

Gene: Bryler_82 Start: 50964, Stop: 51536, Start Num: 69
Candidate Starts for Bryler_82:
(Start: 69 @50964 has 23 MA's), (Start: 81 @50985 has 10 MA's), (97, 51054), (99, 51087), (101, 51108), (105, 51132), (112, 51162), (119, 51222), (135, 51300), (144, 51354), (150, 51378), (164, 51429), (176, 51516),

Gene: BubbleTrouble_80 Start: 47926, Stop: 47456, Start Num: 60
Candidate Starts for BubbleTrouble_80:
(Start: 57 @47944 has 3 MA's), (Start: 60 @47926 has 158 MA's), (Start: 66 @47917 has 1 MA's), (Start: 69 @47914 has 23 MA's), (Start: 81 @47896 has 10 MA's), (91, 47857), (105, 47749), (111, 47722), (119, 47659), (127, 47605),

Gene: Buckaroo_77 Start: 47903, Stop: 47433, Start Num: 60
Candidate Starts for Buckaroo_77:
(Start: 57 @47921 has 3 MA's), (Start: 60 @47903 has 158 MA's), (Start: 66 @47894 has 1 MA's), (Start: 69 @47891 has 23 MA's), (Start: 81 @47873 has 10 MA's), (91, 47834), (105, 47726), (111, 47699), (119, 47636), (127, 47582),

Gene: Bumblebee11_76 Start: 47517, Stop: 47050, Start Num: 60
Candidate Starts for Bumblebee11_76:
(Start: 57 @47535 has 3 MA's), (Start: 60 @47517 has 158 MA's), (Start: 66 @47508 has 1 MA's), (Start: 69 @47505 has 23 MA's), (Start: 81 @47487 has 10 MA's), (91, 47448), (111, 47313), (119, 47250), (127, 47196),

Gene: Burger_79 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for Burger_79:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (111, 47695), (127, 47578),

Gene: Button_35 Start: 26057, Stop: 25458, Start Num: 28
Candidate Starts for Button_35:
(17, 26108), (22, 26087), (Start: 24 @26084 has 1 MA's), (Start: 28 @26057 has 9 MA's), (Start: 81 @25916 has 10 MA's), (105, 25769), (107, 25763), (112, 25739), (121, 25670),

Gene: CREW_75 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for CREW_75:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: Caelakin_79 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for Caelakin_79:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (111, 47695), (127, 47578),

Gene: Cain_82 Start: 50952, Stop: 51524, Start Num: 69
Candidate Starts for Cain_82:

(Start: 69 @50952 has 23 MA's), (Start: 81 @50973 has 10 MA's), (97, 51042), (99, 51075), (101, 51096), (105, 51120), (112, 51150), (119, 51210), (135, 51288), (144, 51342), (150, 51366), (164, 51417), (176, 51504),

Gene: CallaLilly_76 Start: 50384, Stop: 50845, Start Num: 67
Candidate Starts for CallaLilly_76:
(Start: 67 @50384 has 66 MA's), (Start: 81 @50411 has 10 MA's), (84, 50420), (97, 50480), (103, 50543), (111, 50585), (112, 50588), (119, 50648), (135, 50726), (156, 50822), (157, 50825),

Gene: Camperdownii_77 Start: 47142, Stop: 46675, Start Num: 60
Candidate Starts for Camperdownii_77:
(Start: 57 @47160 has 3 MA's), (Start: 60 @47142 has 158 MA's), (Start: 66 @47133 has 1 MA's), (Start: 69 @47130 has 23 MA's), (Start: 81 @47112 has 10 MA's), (91, 47073), (111, 46938), (127, 46821),

Gene: Candra_85 Start: 46048, Stop: 45587, Start Num: 64
Candidate Starts for Candra_85:
(Start: 64 @46048 has 43 MA's), (Start: 81 @46021 has 10 MA's), (95, 45961), (105, 45868), (135, 45700),

Gene: Capricorn_76 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for Capricorn_76:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: CaseJules_78 Start: 50658, Stop: 51119, Start Num: 67
Candidate Starts for CaseJules_78:
(Start: 67 @50658 has 66 MA's), (Start: 81 @50685 has 10 MA's), (84, 50694), (97, 50754), (103, 50817), (111, 50859), (112, 50862), (119, 50922), (135, 51000), (156, 51096), (157, 51099),

Gene: Cece_19 Start: 6614, Stop: 7075, Start Num: 78
Candidate Starts for Cece_19:
(46, 6542), (75, 6611), (Start: 78 @6614 has 2 MA's), (87, 6638), (103, 6755), (105, 6770), (110, 6794), (114, 6809), (122, 6875), (124, 6884), (144, 6998), (162, 7070),

Gene: Cece_321 Start: 175048, Stop: 175509, Start Num: 78
Candidate Starts for Cece_321:
(46, 174976), (75, 175045), (Start: 78 @175048 has 2 MA's), (87, 175072), (103, 175189), (105, 175204), (110, 175228), (114, 175243), (122, 175309), (124, 175318), (144, 175432), (162, 175504),

Gene: CentreCat_81 Start: 47939, Stop: 47469, Start Num: 60
Candidate Starts for CentreCat_81:
(Start: 57 @47957 has 3 MA's), (Start: 60 @47939 has 158 MA's), (Start: 66 @47930 has 1 MA's), (Start: 69 @47927 has 23 MA's), (Start: 81 @47909 has 10 MA's), (91, 47870), (111, 47735), (127, 47618),

Gene: Cerulean_83 Start: 48337, Stop: 47867, Start Num: 60
Candidate Starts for Cerulean_83:
(Start: 57 @48355 has 3 MA's), (Start: 60 @48337 has 158 MA's), (Start: 66 @48328 has 1 MA's), (Start: 69 @48325 has 23 MA's), (Start: 81 @48307 has 10 MA's), (91, 48268), (111, 48133), (127, 48016),

Gene: Chaewon_203 Start: 106060, Stop: 106509, Start Num: 81

Candidate Starts for Chaewon_203:
(38, 105952), (56, 106003), (65, 106030), (Start: 81 @106060 has 10 MA's), (84, 106069), (88, 106084), (91, 106099), (103, 106192), (153, 106468),

Gene: ChampagnePapi_84 Start: 48339, Stop: 47869, Start Num: 60
Candidate Starts for ChampagnePapi_84:
(Start: 57 @48357 has 3 MA's), (Start: 60 @48339 has 158 MA's), (Start: 66 @48330 has 1 MA's), (Start: 69 @48327 has 23 MA's), (Start: 81 @48309 has 10 MA's), (91, 48270), (111, 48135), (127, 48018),

Gene: Chancellor_81 Start: 51093, Stop: 51677, Start Num: 69
Candidate Starts for Chancellor_81:
(14, 50895), (18, 50910), (26, 50946), (31, 50967), (36, 50994), (44, 51024), (Start: 64 @51084 has 43 MA's), (Start: 69 @51093 has 23 MA's), (Start: 72 @51102 has 12 MA's), (Start: 81 @51117 has 10 MA's), (97, 51186), (105, 51264), (111, 51291), (119, 51354), (135, 51432), (171, 51606), (173, 51621), (175, 51645),

Gene: Chaph_81 Start: 47910, Stop: 47440, Start Num: 60
Candidate Starts for Chaph_81:
(Start: 57 @47928 has 3 MA's), (Start: 60 @47910 has 158 MA's), (Start: 66 @47901 has 1 MA's), (Start: 69 @47898 has 23 MA's), (Start: 81 @47880 has 10 MA's), (91, 47841), (111, 47706), (127, 47589),

Gene: Chartreuse_83 Start: 45350, Stop: 44898, Start Num: 64
Candidate Starts for Chartreuse_83:
(Start: 64 @45350 has 43 MA's), (Start: 81 @45323 has 10 MA's), (97, 45257), (105, 45179), (135, 45011),

Gene: Chavito_79 Start: 52300, Stop: 52866, Start Num: 29
Candidate Starts for Chavito_79:
(Start: 29 @52300 has 15 MA's), (34, 52330), (Start: 69 @52411 has 23 MA's), (Start: 81 @52432 has 10 MA's), (83, 52438), (97, 52501), (99, 52534), (105, 52579), (112, 52609), (119, 52669), (156, 52843), (157, 52846),

Gene: CheetoDust_76 Start: 50058, Stop: 50519, Start Num: 67
Candidate Starts for CheetoDust_76:
(Start: 67 @50058 has 66 MA's), (Start: 81 @50085 has 10 MA's), (84, 50094), (97, 50154), (103, 50217), (111, 50259), (112, 50262), (135, 50400), (156, 50496), (157, 50499),

Gene: Cheetobro_81 Start: 51228, Stop: 51812, Start Num: 69
Candidate Starts for Cheetobro_81:
(14, 51039), (26, 51090), (36, 51144), (44, 51174), (Start: 64 @51219 has 43 MA's), (Start: 69 @51228 has 23 MA's), (Start: 72 @51237 has 12 MA's), (Start: 81 @51252 has 10 MA's), (97, 51321), (105, 51399), (106, 51402), (111, 51426), (115, 51447), (119, 51489), (135, 51567), (171, 51741), (175, 51780),

Gene: Chilliams_328 Start: 188863, Stop: 189315, Start Num: 77
Candidate Starts for Chilliams_328:
(45, 188776), (Start: 77 @188863 has 2 MA's), (91, 188908), (102, 188995), (103, 188998), (125, 189127), (130, 189172), (135, 189190), (138, 189211), (141, 189223), (145, 189250), (155, 189295),

Gene: Chilliams_37 Start: 16129, Stop: 16581, Start Num: 77
Candidate Starts for Chilliams_37:

(45, 16042), (Start: 77 @16129 has 2 MA's), (91, 16174), (102, 16261), (103, 16264), (125, 16393), (130, 16438), (135, 16456), (138, 16477), (141, 16489), (145, 16516), (155, 16561),

Gene: Chilliams_215 Start: 142450, Stop: 143124, Start Num: 25
Candidate Starts for Chilliams_215:
(Start: 25 @142450 has 9 MA's), (32, 142489), (129, 142939), (148, 143047), (158, 143095),

Gene: Chupacabra_77 Start: 47509, Stop: 47042, Start Num: 59
Candidate Starts for Chupacabra_77:
(Start: 57 @47524 has 3 MA's), (Start: 59 @47509 has 8 MA's), (Start: 69 @47494 has 23 MA's), (Start: 81 @47482 has 10 MA's), (97, 47413), (105, 47335), (111, 47308), (127, 47191),

Gene: Cici_77 Start: 47530, Stop: 47063, Start Num: 60
Candidate Starts for Cici_77:
(Start: 57 @47548 has 3 MA's), (Start: 60 @47530 has 158 MA's), (Start: 66 @47521 has 1 MA's), (Start: 69 @47518 has 23 MA's), (Start: 81 @47500 has 10 MA's), (91, 47461), (111, 47326), (119, 47263), (127, 47209),

Gene: Cindaradix_76 Start: 48112, Stop: 47648, Start Num: 60
Candidate Starts for Cindaradix_76:
(Start: 57 @48130 has 3 MA's), (Start: 60 @48112 has 158 MA's), (Start: 69 @48097 has 23 MA's), (Start: 73 @48085 has 12 MA's), (97, 48016), (111, 47911), (127, 47794),

Gene: Cintron_81 Start: 48015, Stop: 47545, Start Num: 60
Candidate Starts for Cintron_81:
(Start: 57 @48033 has 3 MA's), (Start: 60 @48015 has 158 MA's), (Start: 66 @48006 has 1 MA's), (Start: 69 @48003 has 23 MA's), (Start: 81 @47985 has 10 MA's), (91, 47946), (111, 47811), (127, 47694),

Gene: Circinus_199 Start: 105749, Stop: 106198, Start Num: 81
Candidate Starts for Circinus_199:
(56, 105692), (65, 105719), (Start: 81 @105749 has 10 MA's), (84, 105758), (88, 105773), (91, 105788), (149, 106133),

Gene: Citius_81 Start: 47920, Stop: 47450, Start Num: 60
Candidate Starts for Citius_81:
(Start: 57 @47938 has 3 MA's), (Start: 60 @47920 has 158 MA's), (Start: 66 @47911 has 1 MA's), (Start: 69 @47908 has 23 MA's), (Start: 81 @47890 has 10 MA's), (91, 47851), (105, 47743), (111, 47716), (119, 47653), (127, 47599),

Gene: Clarenza_80 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for Clarenza_80:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: CloudWang3_86 Start: 46525, Stop: 46091, Start Num: 81
Candidate Starts for CloudWang3_86:
(Start: 64 @46552 has 43 MA's), (Start: 81 @46525 has 10 MA's), (95, 46465), (105, 46372), (124, 46258), (135, 46204),

Gene: Cocoaberry_81 Start: 47900, Stop: 47430, Start Num: 60
Candidate Starts for Cocoaberry_81:

(Start: 57 @47918 has 3 MA's), (Start: 60 @47900 has 158 MA's), (Start: 66 @47891 has 1 MA's), (Start: 69 @47888 has 23 MA's), (Start: 81 @47870 has 10 MA's), (91, 47831), (111, 47696), (127, 47579),

Gene: Coldpizza_72 Start: 58071, Stop: 57268, Start Num: 1
Candidate Starts for Coldpizza_72:
(Start: 1 @58071 has 2 MA's), (13, 57954), (48, 57798), (Start: 81 @57723 has 10 MA's), (83, 57717), (99, 57615),

Gene: Commander_79 Start: 47900, Stop: 47427, Start Num: 60
Candidate Starts for Commander_79:
(Start: 57 @47918 has 3 MA's), (Start: 60 @47900 has 158 MA's), (82, 47867), (91, 47828), (94, 47813), (99, 47765), (111, 47693), (127, 47576),

Gene: Comrade_233 Start: 115408, Stop: 115866, Start Num: 79
Candidate Starts for Comrade_233:
(76, 115405), (Start: 79 @115408 has 19 MA's), (91, 115447), (103, 115546), (106, 115564), (113, 115597), (117, 115624), (135, 115732), (160, 115852), (161, 115855),

Gene: Connomayer_81 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for Connomayer_81:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (105, 47722), (111, 47695), (119, 47632), (127, 47578),

Gene: Cookiedough_84 Start: 46657, Stop: 46205, Start Num: 64
Candidate Starts for Cookiedough_84:
(Start: 64 @46657 has 43 MA's), (Start: 81 @46630 has 10 MA's), (97, 46564), (105, 46486), (135, 46318),

Gene: DaVinci_82 Start: 45404, Stop: 44952, Start Num: 64
Candidate Starts for DaVinci_82:
(Start: 64 @45404 has 43 MA's), (Start: 81 @45377 has 10 MA's), (97, 45311), (105, 45233), (135, 45065),

Gene: Dalmuri_76 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for Dalmuri_76:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: DanSyl44_84 Start: 52479, Stop: 53063, Start Num: 69
Candidate Starts for DanSyl44_84:
(14, 52290), (26, 52341), (36, 52395), (44, 52425), (Start: 64 @52470 has 43 MA's), (Start: 69 @52479 has 23 MA's), (Start: 72 @52488 has 12 MA's), (Start: 81 @52503 has 10 MA's), (97, 52572), (105, 52650), (111, 52677), (119, 52740), (135, 52818), (171, 52992), (175, 53031),

Gene: DartGoblin_77 Start: 50684, Stop: 51145, Start Num: 67
Candidate Starts for DartGoblin_77:
(Start: 67 @50684 has 66 MA's), (Start: 81 @50711 has 10 MA's), (84, 50720), (90, 50747), (97, 50780), (103, 50843), (112, 50888), (135, 51026), (156, 51122), (157, 51125),

Gene: Dartin_79 Start: 51840, Stop: 52403, Start Num: 29
Candidate Starts for Dartin_79:

(Start: 29 @51840 has 15 MA's), (34, 51870), (Start: 69 @51948 has 23 MA's), (Start: 81 @51969 has 10 MA's), (83, 51975), (97, 52038), (99, 52071), (104, 52113), (105, 52116), (112, 52146), (119, 52206), (135, 52284), (156, 52380), (157, 52383),

Gene: Datway_78 Start: 47710, Stop: 47240, Start Num: 60
Candidate Starts for Datway_78:
(Start: 57 @47728 has 3 MA's), (Start: 60 @47710 has 158 MA's), (Start: 66 @47701 has 1 MA's), (Start: 69 @47698 has 23 MA's), (Start: 81 @47680 has 10 MA's), (91, 47641), (111, 47506), (127, 47389),

Gene: Deano_78 Start: 47907, Stop: 47437, Start Num: 60
Candidate Starts for Deano_78:
(Start: 57 @47925 has 3 MA's), (Start: 60 @47907 has 158 MA's), (Start: 66 @47898 has 1 MA's), (Start: 69 @47895 has 23 MA's), (Start: 81 @47877 has 10 MA's), (91, 47838), (105, 47730), (111, 47703), (119, 47640), (127, 47586),

Gene: Deby_76 Start: 50830, Stop: 51291, Start Num: 67
Candidate Starts for Deby_76:
(Start: 67 @50830 has 66 MA's), (Start: 81 @50857 has 10 MA's), (84, 50866), (97, 50926), (103, 50989), (111, 51031), (112, 51034), (135, 51172), (156, 51268), (157, 51271),

Gene: DekHockey33_89 Start: 47389, Stop: 46922, Start Num: 61
Candidate Starts for DekHockey33_89:
(Start: 61 @47389 has 15 MA's), (Start: 81 @47377 has 10 MA's), (91, 47338), (94, 47323),

Gene: DeluluLabubu_241 Start: 115489, Stop: 115944, Start Num: 79
Candidate Starts for DeluluLabubu_241:
(55, 115435), (76, 115486), (Start: 79 @115489 has 19 MA's), (90, 115525), (91, 115528), (103, 115627), (104, 115639), (113, 115678), (119, 115729), (135, 115810), (160, 115930), (161, 115933),

Gene: Dhanush_81 Start: 47902, Stop: 47432, Start Num: 60
Candidate Starts for Dhanush_81:
(Start: 57 @47920 has 3 MA's), (Start: 60 @47902 has 158 MA's), (Start: 66 @47893 has 1 MA's), (Start: 69 @47890 has 23 MA's), (Start: 81 @47872 has 10 MA's), (91, 47833), (111, 47698), (127, 47581),

Gene: DirtyDunning_80 Start: 47911, Stop: 47441, Start Num: 60
Candidate Starts for DirtyDunning_80:
(Start: 57 @47929 has 3 MA's), (Start: 60 @47911 has 158 MA's), (Start: 66 @47902 has 1 MA's), (Start: 69 @47899 has 23 MA's), (Start: 81 @47881 has 10 MA's), (91, 47842), (105, 47734), (111, 47707), (119, 47644), (127, 47590),

Gene: DismalFunk_82 Start: 53325, Stop: 53894, Start Num: 73
Candidate Starts for DismalFunk_82:
(Start: 73 @53325 has 12 MA's), (Start: 81 @53334 has 10 MA's), (89, 53364), (99, 53436), (105, 53481), (111, 53508), (112, 53511), (119, 53571), (172, 53835), (174, 53850),

Gene: DismalStressor_82 Start: 53325, Stop: 53894, Start Num: 73
Candidate Starts for DismalStressor_82:
(Start: 73 @53325 has 12 MA's), (Start: 81 @53334 has 10 MA's), (89, 53364), (99, 53436), (105, 53481), (111, 53508), (112, 53511), (119, 53571), (172, 53835), (174, 53850),

Gene: DontArgue_75 Start: 46372, Stop: 45908, Start Num: 60

Candidate Starts for DontArgue_75:
(Start: 60 @46372 has 158 MA's), (Start: 81 @46348 has 10 MA's), (105, 46201), (111, 46174), (121, 46099), (127, 46057),

Gene: Dorin_235 Start: 120741, Stop: 121214, Start Num: 81
Candidate Starts for Dorin_235:
(75, 120735), (Start: 81 @120741 has 10 MA's), (95, 120801), (105, 120897), (119, 120987), (124, 121011), (144, 121119), (153, 121158), (163, 121194), (165, 121206),

Gene: Dorothea_84 Start: 46650, Stop: 46198, Start Num: 64
Candidate Starts for Dorothea_84:
(Start: 64 @46650 has 43 MA's), (Start: 81 @46623 has 10 MA's), (97, 46557), (105, 46479), (135, 46311),

Gene: Doughnut_82 Start: 52967, Stop: 53548, Start Num: 73
Candidate Starts for Doughnut_82:
(Start: 73 @52967 has 12 MA's), (Start: 81 @52979 has 10 MA's), (105, 53126), (111, 53153), (112, 53156), (119, 53216), (166, 53432), (172, 53489), (174, 53504),

Gene: DrHayes_76 Start: 50854, Stop: 51315, Start Num: 67
Candidate Starts for DrHayes_76:
(Start: 67 @50854 has 66 MA's), (Start: 81 @50881 has 10 MA's), (84, 50890), (90, 50917), (97, 50950), (103, 51013), (112, 51058), (135, 51196), (156, 51292), (157, 51295),

Gene: Drake94_77 Start: 46666, Stop: 46199, Start Num: 60
Candidate Starts for Drake94_77:
(Start: 60 @46666 has 158 MA's), (Start: 66 @46657 has 1 MA's), (Start: 81 @46642 has 10 MA's), (97, 46573), (119, 46405),

Gene: DroogsArmy_77 Start: 49905, Stop: 49435, Start Num: 59
Candidate Starts for DroogsArmy_77:
(9, 50100), (16, 50079), (Start: 57 @49920 has 3 MA's), (Start: 59 @49905 has 8 MA's), (Start: 66 @49893 has 1 MA's), (Start: 81 @49872 has 10 MA's), (105, 49725), (111, 49698), (120, 49632), (124, 49614),

Gene: Druantia_79 Start: 47726, Stop: 47259, Start Num: 60
Candidate Starts for Druantia_79:
(Start: 57 @47744 has 3 MA's), (Start: 60 @47726 has 158 MA's), (Start: 66 @47717 has 1 MA's), (Start: 69 @47714 has 23 MA's), (Start: 81 @47696 has 10 MA's), (91, 47657), (111, 47522), (119, 47459), (127, 47405),

Gene: Durfee_76 Start: 50658, Stop: 51119, Start Num: 67
Candidate Starts for Durfee_76:
(Start: 67 @50658 has 66 MA's), (Start: 81 @50685 has 10 MA's), (84, 50694), (97, 50754), (103, 50817), (111, 50859), (112, 50862), (119, 50922), (135, 51000), (156, 51096), (157, 51099),

Gene: DustyMartin_82 Start: 47658, Stop: 47191, Start Num: 60
Candidate Starts for DustyMartin_82:
(Start: 60 @47658 has 158 MA's), (Start: 66 @47649 has 1 MA's), (Start: 81 @47631 has 10 MA's), (105, 47484), (111, 47457), (121, 47382), (127, 47340),

Gene: Eagle_80 Start: 47961, Stop: 47491, Start Num: 60
Candidate Starts for Eagle_80:

(Start: 57 @47979 has 3 MA's), (Start: 60 @47961 has 158 MA's), (Start: 66 @47952 has 1 MA's), (Start: 69 @47949 has 23 MA's), (Start: 81 @47931 has 10 MA's), (91, 47892), (111, 47757), (127, 47640),

Gene: Eaglepride_83 Start: 47586, Stop: 47122, Start Num: 60
Candidate Starts for Eaglepride_83:
(Start: 60 @47586 has 158 MA's), (Start: 66 @47577 has 1 MA's), (Start: 81 @47562 has 10 MA's), (97, 47493),

Gene: Eapen_81 Start: 47894, Stop: 47424, Start Num: 60
Candidate Starts for Eapen_81:
(Start: 57 @47912 has 3 MA's), (Start: 60 @47894 has 158 MA's), (Start: 66 @47885 has 1 MA's), (Start: 69 @47882 has 23 MA's), (Start: 81 @47864 has 10 MA's), (91, 47825), (111, 47690), (127, 47573),

Gene: Efra2_83 Start: 51293, Stop: 51754, Start Num: 67
Candidate Starts for Efra2_83:
(Start: 67 @51293 has 66 MA's), (Start: 81 @51320 has 10 MA's), (84, 51329), (97, 51389), (99, 51422), (104, 51464), (111, 51494), (112, 51497), (119, 51557), (135, 51635), (156, 51731), (157, 51734),

Gene: Ekdilam_84 Start: 58038, Stop: 58601, Start Num: 30
Candidate Starts for Ekdilam_84:
(Start: 30 @58038 has 16 MA's), (34, 58068), (41, 58095), (49, 58113), (Start: 81 @58167 has 10 MA's), (83, 58173), (97, 58236), (99, 58269), (105, 58314), (111, 58341), (119, 58404), (156, 58578),

Gene: Elle_85 Start: 46854, Stop: 46387, Start Num: 61
Candidate Starts for Elle_85:
(Start: 61 @46854 has 15 MA's), (Start: 81 @46842 has 10 MA's), (91, 46803), (107, 46686), (121, 46590),

Gene: Emalyn_30 Start: 23911, Stop: 23318, Start Num: 28
Candidate Starts for Emalyn_30:
(Start: 28 @23911 has 9 MA's), (Start: 60 @23797 has 158 MA's), (Start: 81 @23758 has 10 MA's), (93, 23710), (97, 23689), (99, 23656), (119, 23524),

Gene: Emerson_79 Start: 50897, Stop: 51358, Start Num: 67
Candidate Starts for Emerson_79:
(Start: 67 @50897 has 66 MA's), (Start: 81 @50924 has 10 MA's), (84, 50933), (97, 50993), (103, 51056), (112, 51101), (135, 51239), (156, 51335), (157, 51338),

Gene: Emma1919_241 Start: 114442, Stop: 114897, Start Num: 79
Candidate Starts for Emma1919_241:
(55, 114388), (76, 114439), (Start: 79 @114442 has 19 MA's), (90, 114478), (91, 114481), (103, 114580), (104, 114592), (113, 114631), (119, 114682), (135, 114763), (160, 114883), (161, 114886),

Gene: Eponine_83 Start: 52075, Stop: 52659, Start Num: 69
Candidate Starts for Eponine_83:
(14, 51886), (26, 51937), (36, 51991), (44, 52021), (Start: 64 @52066 has 43 MA's), (Start: 69 @52075 has 23 MA's), (Start: 72 @52084 has 12 MA's), (Start: 81 @52099 has 10 MA's), (97, 52168), (105, 52246), (111, 52273), (119, 52336), (135, 52414), (171, 52588), (175, 52627),

Gene: Eris_80 Start: 47911, Stop: 47441, Start Num: 60

Candidate Starts for Eris_80:
(Start: 57 @47929 has 3 MA's), (Start: 60 @47911 has 158 MA's), (Start: 66 @47902 has 1 MA's), (Start: 69 @47899 has 23 MA's), (Start: 81 @47881 has 10 MA's), (91, 47842), (111, 47707), (127, 47590),

Gene: Eros_81 Start: 47904, Stop: 47431, Start Num: 60
Candidate Starts for Eros_81:
(Start: 57 @47922 has 3 MA's), (Start: 60 @47904 has 158 MA's), (82, 47871), (91, 47832), (94, 47817), (99, 47769), (111, 47697), (127, 47580),

Gene: Eurydice_82 Start: 47936, Stop: 47466, Start Num: 60
Candidate Starts for Eurydice_82:
(Start: 57 @47954 has 3 MA's), (Start: 60 @47936 has 158 MA's), (Start: 66 @47927 has 1 MA's), (Start: 69 @47924 has 23 MA's), (Start: 81 @47906 has 10 MA's), (91, 47867), (111, 47732), (127, 47615),

Gene: Evaa_73 Start: 55309, Stop: 54518, Start Num: 1
Candidate Starts for Evaa_73:
(Start: 1 @55309 has 2 MA's), (23, 55156), (33, 55096), (35, 55087), (40, 55066), (48, 55039), (Start: 81 @54964 has 10 MA's), (91, 54925), (129, 54670),

Gene: Faust_238 Start: 116256, Stop: 116714, Start Num: 79
Candidate Starts for Faust_238:
(54, 116202), (Start: 79 @116256 has 19 MA's), (91, 116295), (108, 116424), (113, 116445), (139, 116604), (143, 116619), (160, 116700),

Gene: Findley_82 Start: 53343, Stop: 53912, Start Num: 73
Candidate Starts for Findley_82:
(Start: 73 @53343 has 12 MA's), (Start: 81 @53352 has 10 MA's), (89, 53382), (99, 53454), (105, 53499), (111, 53526), (112, 53529), (119, 53589), (172, 53853), (174, 53868),

Gene: Fionnbharth_81 Start: 51473, Stop: 52057, Start Num: 69
Candidate Starts for Fionnbharth_81:
(14, 51284), (26, 51335), (36, 51389), (44, 51419), (Start: 64 @51464 has 43 MA's), (Start: 69 @51473 has 23 MA's), (Start: 72 @51482 has 12 MA's), (Start: 81 @51497 has 10 MA's), (97, 51566), (105, 51644), (111, 51671), (119, 51734), (135, 51812), (171, 51986), (175, 52025),

Gene: FloraSnap32_208 Start: 144480, Stop: 145148, Start Num: 25
Candidate Starts for FloraSnap32_208:
(Start: 6 @144402 has 1 MA's), (Start: 25 @144480 has 9 MA's), (32, 144522), (39, 144552), (48, 144585), (123, 144930), (129, 144975), (133, 145002), (142, 145050), (154, 145113),

Gene: Florean_81 Start: 47898, Stop: 47428, Start Num: 60
Candidate Starts for Florean_81:
(Start: 57 @47916 has 3 MA's), (Start: 60 @47898 has 158 MA's), (Start: 66 @47889 has 1 MA's), (Start: 69 @47886 has 23 MA's), (Start: 81 @47868 has 10 MA's), (91, 47829), (105, 47721), (111, 47694), (119, 47631), (127, 47577),

Gene: Flux_82 Start: 47897, Stop: 47427, Start Num: 60
Candidate Starts for Flux_82:
(Start: 57 @47915 has 3 MA's), (Start: 60 @47897 has 158 MA's), (Start: 66 @47888 has 1 MA's), (Start: 69 @47885 has 23 MA's), (Start: 81 @47867 has 10 MA's), (91, 47828), (111, 47693), (127, 47576),

Gene: FlyCatcher_81 Start: 50450, Stop: 49965, Start Num: 58
Candidate Starts for FlyCatcher_81:
(58, 50450), (Start: 59 @50438 has 8 MA's), (Start: 81 @50405 has 10 MA's), (90, 50369), (97, 50336), (105, 50258), (111, 50231), (119, 50168), (124, 50144), (156, 49988), (157, 49985),

Gene: Forrest_239 Start: 115200, Stop: 115655, Start Num: 79
Candidate Starts for Forrest_239:
(55, 115146), (76, 115197), (Start: 79 @115200 has 19 MA's), (90, 115236), (91, 115239), (103, 115338), (104, 115350), (113, 115389), (119, 115440), (135, 115521), (160, 115641), (161, 115644),

Gene: Francesca_236 Start: 121384, Stop: 121857, Start Num: 81
Candidate Starts for Francesca_236:
(75, 121378), (Start: 81 @121384 has 10 MA's), (95, 121444), (105, 121540), (119, 121630), (124, 121654), (144, 121762), (153, 121801), (163, 121837), (165, 121849),

Gene: Francob_244 Start: 115817, Stop: 116272, Start Num: 79
Candidate Starts for Francob_244:
(76, 115814), (Start: 79 @115817 has 19 MA's), (91, 115856), (103, 115955), (104, 115967), (113, 116006), (119, 116057), (135, 116138), (160, 116258), (161, 116261),

Gene: FrostedClock_215 Start: 146276, Stop: 146944, Start Num: 25
Candidate Starts for FrostedClock_215:
(Start: 25 @146276 has 9 MA's), (32, 146318), (39, 146348), (48, 146381), (129, 146771), (133, 146798), (154, 146909),

Gene: Funston_80 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for Funston_80:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: GTE2_26 Start: 24090, Stop: 23512, Start Num: 28
Candidate Starts for GTE2_26:
(Start: 28 @24090 has 9 MA's), (51, 23997), (Start: 81 @23952 has 10 MA's), (97, 23883), (105, 23805), (116, 23745), (119, 23718),

Gene: Gadost_81 Start: 47900, Stop: 47430, Start Num: 60
Candidate Starts for Gadost_81:
(Start: 57 @47918 has 3 MA's), (Start: 60 @47900 has 158 MA's), (Start: 66 @47891 has 1 MA's), (Start: 69 @47888 has 23 MA's), (Start: 81 @47870 has 10 MA's), (91, 47831), (111, 47696), (127, 47579),

Gene: Gail_85 Start: 47839, Stop: 47372, Start Num: 69
Candidate Starts for Gail_85:
(Start: 69 @47839 has 23 MA's), (Start: 81 @47827 has 10 MA's), (105, 47674), (111, 47647), (115, 47626), (119, 47587), (136, 47497), (140, 47476),

Gene: Garak_87 Start: 46485, Stop: 46024, Start Num: 64
Candidate Starts for Garak_87:
(Start: 64 @46485 has 43 MA's), (Start: 81 @46458 has 10 MA's), (95, 46398), (105, 46305), (124, 46191),

Gene: GiKK_37 Start: 26414, Stop: 25788, Start Num: 24
Candidate Starts for GiKK_37:
(17, 26438), (22, 26417), (Start: 24 @26414 has 1 MA's), (Start: 28 @26387 has 9 MA's), (Start: 81 @26246 has 10 MA's), (105, 26099), (107, 26093), (112, 26069), (121, 26000), (151, 25841),

Gene: Gilson_240 Start: 115082, Stop: 115537, Start Num: 79
Candidate Starts for Gilson_240:
(76, 115079), (Start: 79 @115082 has 19 MA's), (91, 115121), (103, 115220), (104, 115232), (113, 115271), (119, 115322), (135, 115403), (160, 115523), (161, 115526),

Gene: Gladiator_82 Start: 46208, Stop: 45747, Start Num: 64
Candidate Starts for Gladiator_82:
(Start: 64 @46208 has 43 MA's), (Start: 81 @46181 has 10 MA's), (95, 46121), (105, 46028), (124, 45914), (135, 45860),

Gene: GoldenEssence_202 Start: 140255, Stop: 141001, Start Num: 6
Candidate Starts for GoldenEssence_202:
(Start: 6 @140255 has 1 MA's), (Start: 25 @140333 has 9 MA's), (32, 140375), (39, 140405), (48, 140438), (123, 140783), (129, 140828), (133, 140855), (142, 140903), (154, 140966),

Gene: Goose_81 Start: 47320, Stop: 46853, Start Num: 59
Candidate Starts for Goose_81:
(Start: 57 @47335 has 3 MA's), (Start: 59 @47320 has 8 MA's), (Start: 69 @47305 has 23 MA's), (Start: 81 @47293 has 10 MA's), (97, 47224), (105, 47146), (111, 47119), (127, 47002),

Gene: GreedyLawyer_78 Start: 45978, Stop: 45517, Start Num: 64
Candidate Starts for GreedyLawyer_78:
(Start: 64 @45978 has 43 MA's), (Start: 81 @45951 has 10 MA's), (95, 45891), (105, 45798), (135, 45630),

Gene: Greely_237 Start: 134475, Stop: 134945, Start Num: 72
Candidate Starts for Greely_237:
(Start: 72 @134475 has 12 MA's), (Start: 81 @134490 has 10 MA's), (105, 134637), (111, 134664), (119, 134724),

Gene: Gruunaga_85 Start: 46163, Stop: 45702, Start Num: 64
Candidate Starts for Gruunaga_85:
(Start: 64 @46163 has 43 MA's), (Start: 81 @46136 has 10 MA's), (95, 46076), (105, 45983), (124, 45869), (135, 45815),

Gene: Guanica15_82 Start: 51039, Stop: 51500, Start Num: 67
Candidate Starts for Guanica15_82:
(Start: 67 @51039 has 66 MA's), (Start: 81 @51066 has 10 MA's), (84, 51075), (97, 51135), (104, 51210), (111, 51240), (112, 51243), (119, 51303), (135, 51381), (156, 51477),

Gene: HINdeR_77 Start: 49316, Stop: 48840, Start Num: 59
Candidate Starts for HINdeR_77:
(Start: 57 @49331 has 3 MA's), (Start: 59 @49316 has 8 MA's), (Start: 64 @49307 has 43 MA's), (Start: 66 @49304 has 1 MA's), (Start: 72 @49292 has 12 MA's), (Start: 73 @49289 has 12 MA's), (Start: 78 @49280 has 2 MA's), (Start: 81 @49277 has 10 MA's), (83, 49271), (91, 49238), (118, 49058), (145, 48905),

Gene: HamSlice_77 Start: 47898, Stop: 47428, Start Num: 60

Candidate Starts for HamSlice_77:
(Start: 57 @47916 has 3 MA's), (Start: 60 @47898 has 158 MA's), (Start: 66 @47889 has 1 MA's), (Start: 69 @47886 has 23 MA's), (Start: 81 @47868 has 10 MA's), (91, 47829), (105, 47721), (111, 47694), (119, 47631), (127, 47577),

Gene: Hammer_86 Start: 45843, Stop: 45409, Start Num: 81
Candidate Starts for Hammer_86:
(Start: 64 @45870 has 43 MA's), (Start: 81 @45843 has 10 MA's), (95, 45783), (105, 45690), (124, 45576), (135, 45522),

Gene: Happiness_80 Start: 47922, Stop: 47452, Start Num: 60
Candidate Starts for Happiness_80:
(Start: 57 @47940 has 3 MA's), (Start: 60 @47922 has 158 MA's), (Start: 66 @47913 has 1 MA's), (Start: 69 @47910 has 23 MA's), (Start: 81 @47892 has 10 MA's), (91, 47853), (111, 47718), (127, 47601),

Gene: HedwigODU_76 Start: 50506, Stop: 50967, Start Num: 67
Candidate Starts for HedwigODU_76:
(Start: 67 @50506 has 66 MA's), (Start: 81 @50533 has 10 MA's), (84, 50542), (97, 50602), (103, 50665), (111, 50707), (112, 50710), (119, 50770), (135, 50848), (156, 50944), (157, 50947),

Gene: Helmet_88 Start: 46485, Stop: 46024, Start Num: 64
Candidate Starts for Helmet_88:
(Start: 64 @46485 has 43 MA's), (Start: 81 @46458 has 10 MA's), (95, 46398), (105, 46305), (124, 46191),

Gene: Herbertwm_78 Start: 46898, Stop: 46428, Start Num: 59
Candidate Starts for Herbertwm_78:
(Start: 59 @46898 has 8 MA's), (Start: 81 @46868 has 10 MA's), (85, 46856), (90, 46832), (101, 46745), (105, 46721), (111, 46694), (112, 46691), (119, 46631),

Gene: Hexamo_85 Start: 46038, Stop: 45577, Start Num: 64
Candidate Starts for Hexamo_85:
(Start: 64 @46038 has 43 MA's), (Start: 81 @46011 has 10 MA's), (95, 45951), (105, 45858), (124, 45744), (135, 45690),

Gene: Hexbug_40 Start: 28044, Stop: 27442, Start Num: 28
Candidate Starts for Hexbug_40:
(15, 28101), (17, 28095), (22, 28074), (Start: 28 @28044 has 9 MA's), (Start: 81 @27903 has 10 MA's), (105, 27756), (107, 27750), (112, 27726), (119, 27669), (154, 27486),

Gene: Holli_80 Start: 47689, Stop: 47219, Start Num: 60
Candidate Starts for Holli_80:
(Start: 57 @47707 has 3 MA's), (Start: 60 @47689 has 158 MA's), (Start: 66 @47680 has 1 MA's), (Start: 69 @47677 has 23 MA's), (Start: 81 @47659 has 10 MA's), (91, 47620), (105, 47512), (111, 47485), (119, 47422), (127, 47368),

Gene: Homura_75 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for Homura_75:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: Hoot_79 Start: 43863, Stop: 43402, Start Num: 64

Candidate Starts for Hoot_79:
(Start: 64 @43863 has 43 MA's), (Start: 81 @43836 has 10 MA's), (95, 43776), (105, 43683), (135, 43515),

Gene: Houdini22_80 Start: 47900, Stop: 47430, Start Num: 60
Candidate Starts for Houdini22_80:
(Start: 57 @47918 has 3 MA's), (Start: 60 @47900 has 158 MA's), (Start: 66 @47891 has 1 MA's), (Start: 69 @47888 has 23 MA's), (Start: 81 @47870 has 10 MA's), (91, 47831), (111, 47696), (127, 47579),

Gene: Hurricane_79 Start: 51359, Stop: 51922, Start Num: 30
Candidate Starts for Hurricane_79:
(Start: 30 @51359 has 16 MA's), (41, 51416), (52, 51440), (Start: 81 @51491 has 10 MA's), (83, 51497), (90, 51527), (97, 51560), (99, 51593), (105, 51638), (117, 51701), (119, 51728), (144, 51860),

Gene: Huxley_73 Start: 45792, Stop: 45322, Start Num: 60
Candidate Starts for Huxley_73:
(Start: 57 @45810 has 3 MA's), (Start: 60 @45792 has 158 MA's), (Start: 66 @45783 has 1 MA's), (Start: 69 @45780 has 23 MA's), (Start: 81 @45762 has 10 MA's), (91, 45723), (111, 45588), (127, 45471),

Gene: Hyperbowlee_75 Start: 50658, Stop: 51119, Start Num: 67
Candidate Starts for Hyperbowlee_75:
(Start: 67 @50658 has 66 MA's), (Start: 81 @50685 has 10 MA's), (84, 50694), (97, 50754), (103, 50817), (111, 50859), (112, 50862), (119, 50922), (135, 51000), (156, 51096), (157, 51099),

Gene: ICleared_80 Start: 47967, Stop: 47497, Start Num: 60
Candidate Starts for ICleared_80:
(5, 48198), (Start: 57 @47985 has 3 MA's), (Start: 60 @47967 has 158 MA's), (Start: 66 @47958 has 1 MA's), (Start: 69 @47955 has 23 MA's), (Start: 81 @47937 has 10 MA's), (91, 47898), (111, 47763), (127, 47646),

Gene: Iceman_79 Start: 48189, Stop: 47719, Start Num: 60
Candidate Starts for Iceman_79:
(Start: 57 @48207 has 3 MA's), (Start: 60 @48189 has 158 MA's), (Start: 66 @48180 has 1 MA's), (Start: 69 @48177 has 23 MA's), (Start: 81 @48159 has 10 MA's), (91, 48120), (111, 47985), (127, 47868),

Gene: Imbriano_85 Start: 46851, Stop: 46390, Start Num: 64
Candidate Starts for Imbriano_85:
(Start: 64 @46851 has 43 MA's), (Start: 81 @46824 has 10 MA's), (95, 46764), (105, 46671), (135, 46503),

Gene: Indra_89 Start: 46486, Stop: 46025, Start Num: 64
Candidate Starts for Indra_89:
(Start: 64 @46486 has 43 MA's), (Start: 81 @46459 has 10 MA's), (95, 46399), (105, 46306), (124, 46192),

Gene: Inky_76 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for Inky_76:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: Iracema64_81 Start: 48163, Stop: 47693, Start Num: 60
Candidate Starts for Iracema64_81:
(Start: 57 @48181 has 3 MA's), (Start: 60 @48163 has 158 MA's), (Start: 66 @48154 has 1 MA's), (Start: 69 @48151 has 23 MA's), (Start: 81 @48133 has 10 MA's), (91, 48094), (111, 47959), (127, 47842),

Gene: IronMan_81 Start: 48725, Stop: 48255, Start Num: 60
Candidate Starts for IronMan_81:
(Start: 60 @48725 has 158 MA's), (Start: 66 @48716 has 1 MA's), (Start: 81 @48701 has 10 MA's), (119, 48461), (129, 48398),

Gene: Iwokeuplikedis_87 Start: 48540, Stop: 48067, Start Num: 60
Candidate Starts for Iwokeuplikedis_87:
(Start: 60 @48540 has 158 MA's), (Start: 66 @48531 has 1 MA's), (Start: 69 @48528 has 23 MA's), (Start: 81 @48516 has 10 MA's), (90, 48480), (111, 48336), (129, 48210),

Gene: JAWS_75 Start: 50423, Stop: 50884, Start Num: 67
Candidate Starts for JAWS_75:
(Start: 67 @50423 has 66 MA's), (Start: 81 @50450 has 10 MA's), (84, 50459), (97, 50519), (103, 50582), (111, 50624), (112, 50627), (135, 50765), (156, 50861), (157, 50864),

Gene: JF1_81 Start: 51381, Stop: 51974, Start Num: 64
Candidate Starts for JF1_81:
(14, 51201), (26, 51252), (36, 51306), (44, 51336), (Start: 64 @51381 has 43 MA's), (Start: 69 @51390 has 23 MA's), (Start: 72 @51399 has 12 MA's), (Start: 81 @51414 has 10 MA's), (97, 51483), (105, 51561), (111, 51588), (115, 51609), (119, 51651), (171, 51903), (175, 51942), (177, 51966),

Gene: JSwag_87 Start: 46806, Stop: 46339, Start Num: 61
Candidate Starts for JSwag_87:
(Start: 61 @46806 has 15 MA's), (Start: 81 @46794 has 10 MA's), (91, 46755), (94, 46740),

Gene: Jaan_82 Start: 48833, Stop: 48363, Start Num: 60
Candidate Starts for Jaan_82:
(Start: 60 @48833 has 158 MA's), (Start: 66 @48824 has 1 MA's), (Start: 81 @48809 has 10 MA's), (90, 48773), (119, 48569),

Gene: Jada_238 Start: 114440, Stop: 114895, Start Num: 79
Candidate Starts for Jada_238:
(55, 114386), (76, 114437), (Start: 79 @114440 has 19 MA's), (90, 114476), (91, 114479), (103, 114578), (104, 114590), (113, 114629), (119, 114680), (135, 114761), (160, 114881), (161, 114884),

Gene: Jamzy_37 Start: 26370, Stop: 25771, Start Num: 28
Candidate Starts for Jamzy_37:
(17, 26421), (22, 26400), (Start: 24 @26397 has 1 MA's), (Start: 28 @26370 has 9 MA's), (Start: 81 @26229 has 10 MA's), (105, 26082), (107, 26076), (112, 26052), (121, 25983),

Gene: Jarvi_76 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for Jarvi_76:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: Jayhawk_79 Start: 50923, Stop: 51384, Start Num: 67
Candidate Starts for Jayhawk_79:

(Start: 67 @50923 has 66 MA's), (Start: 81 @50950 has 10 MA's), (84, 50959), (97, 51019), (103, 51082), (111, 51124), (112, 51127), (135, 51265), (156, 51361), (157, 51364),

Gene: Jaykayelowell_78 Start: 47892, Stop: 47422, Start Num: 60
Candidate Starts for Jaykayelowell_78:
(Start: 57 @47910 has 3 MA's), (Start: 60 @47892 has 158 MA's), (Start: 66 @47883 has 1 MA's), (Start: 69 @47880 has 23 MA's), (Start: 81 @47862 has 10 MA's), (91, 47823), (105, 47715), (111, 47688), (119, 47625), (127, 47571),

Gene: Jeckyll_76 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for Jeckyll_76:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: Jeeves_85 Start: 46559, Stop: 46092, Start Num: 69
Candidate Starts for Jeeves_85:
(Start: 69 @46559 has 23 MA's), (Start: 81 @46547 has 10 MA's), (111, 46367), (115, 46346), (119, 46307), (136, 46217), (140, 46196),

Gene: JetBlade_82 Start: 47927, Stop: 47457, Start Num: 60
Candidate Starts for JetBlade_82:
(Start: 57 @47945 has 3 MA's), (Start: 60 @47927 has 158 MA's), (Start: 66 @47918 has 1 MA's), (Start: 69 @47915 has 23 MA's), (Start: 81 @47897 has 10 MA's), (91, 47858), (105, 47750), (111, 47723), (119, 47660), (127, 47606),

Gene: JoongJeon_80 Start: 47893, Stop: 47423, Start Num: 60
Candidate Starts for JoongJeon_80:
(Start: 57 @47911 has 3 MA's), (Start: 60 @47893 has 158 MA's), (Start: 66 @47884 has 1 MA's), (Start: 69 @47881 has 23 MA's), (Start: 81 @47863 has 10 MA's), (91, 47824), (111, 47689), (127, 47572),

Gene: Jordennis_82 Start: 46245, Stop: 45784, Start Num: 64
Candidate Starts for Jordennis_82:
(Start: 64 @46245 has 43 MA's), (Start: 81 @46218 has 10 MA's), (95, 46158), (105, 46065), (135, 45897),

Gene: Joy99_77 Start: 50590, Stop: 51051, Start Num: 67
Candidate Starts for Joy99_77:
(Start: 67 @50590 has 66 MA's), (Start: 81 @50617 has 10 MA's), (84, 50626), (97, 50686), (103, 50749), (111, 50791), (112, 50794), (119, 50854), (135, 50932), (156, 51028), (157, 51031),

Gene: Juliette_83 Start: 51509, Stop: 52081, Start Num: 72
Candidate Starts for Juliette_83:
(8, 51284), (14, 51311), (26, 51362), (36, 51416), (44, 51446), (Start: 64 @51491 has 43 MA's), (Start: 69 @51500 has 23 MA's), (Start: 72 @51509 has 12 MA's), (Start: 81 @51524 has 10 MA's), (97, 51593), (104, 51668), (105, 51671), (111, 51698), (119, 51761), (135, 51839), (169, 52004), (171, 52010), (175, 52049),

Gene: Junimo_77 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for Junimo_77:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (105, 47722), (111, 47695), (119, 47632), (127, 47578),

Gene: KFPoly_80 Start: 47893, Stop: 47423, Start Num: 60
Candidate Starts for KFPoly_80:
(Start: 57 @47911 has 3 MA's), (Start: 60 @47893 has 158 MA's), (Start: 66 @47884 has 1 MA's), (Start: 69 @47881 has 23 MA's), (Start: 81 @47863 has 10 MA's), (91, 47824), (111, 47689), (127, 47572),

Gene: Kampy_80 Start: 47902, Stop: 47432, Start Num: 60
Candidate Starts for Kampy_80:
(Start: 57 @47920 has 3 MA's), (Start: 60 @47902 has 158 MA's), (Start: 66 @47893 has 1 MA's), (Start: 69 @47890 has 23 MA's), (Start: 81 @47872 has 10 MA's), (91, 47833), (111, 47698), (127, 47581),

Gene: Karp_236 Start: 116720, Stop: 117178, Start Num: 79
Candidate Starts for Karp_236:
(76, 116717), (Start: 79 @116720 has 19 MA's), (91, 116759), (103, 116858), (106, 116876), (113, 116909), (117, 116936), (135, 117044), (160, 117164), (161, 117167),

Gene: Katalie136_77 Start: 47517, Stop: 47050, Start Num: 60
Candidate Starts for Katalie136_77:
(Start: 57 @47535 has 3 MA's), (Start: 60 @47517 has 158 MA's), (Start: 66 @47508 has 1 MA's), (Start: 69 @47505 has 23 MA's), (Start: 81 @47487 has 10 MA's), (91, 47448), (111, 47313), (119, 47250), (127, 47196),

Gene: KatherineG_87 Start: 47118, Stop: 46651, Start Num: 61
Candidate Starts for KatherineG_87:
(Start: 61 @47118 has 15 MA's), (Start: 81 @47106 has 10 MA's), (91, 47067), (94, 47052),

Gene: Kazan_85 Start: 46018, Stop: 45557, Start Num: 64
Candidate Starts for Kazan_85:
(Start: 64 @46018 has 43 MA's), (Start: 81 @45991 has 10 MA's), (95, 45931), (105, 45838), (135, 45670),

Gene: KekoraPapaka_78 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for KekoraPapaka_78:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (111, 47695), (127, 47578),

Gene: Kenrey_246 Start: 116000, Stop: 116455, Start Num: 79
Candidate Starts for Kenrey_246:
(76, 115997), (Start: 79 @116000 has 19 MA's), (91, 116039), (94, 116054), (103, 116138), (104, 116150), (113, 116189), (160, 116441),

Gene: Keshu_81 Start: 51550, Stop: 52113, Start Num: 30
Candidate Starts for Keshu_81:
(Start: 30 @51550 has 16 MA's), (41, 51607), (52, 51631), (Start: 81 @51682 has 10 MA's), (83, 51688), (90, 51718), (97, 51751), (99, 51784), (105, 51829), (117, 51892), (119, 51919), (144, 52051),

Gene: KiSi_79 Start: 51113, Stop: 51700, Start Num: 30
Candidate Starts for KiSi_79:
(Start: 30 @51113 has 16 MA's), (42, 51170), (Start: 64 @51233 has 43 MA's), (Start: 81 @51266 has 10 MA's), (83, 51272), (97, 51335), (99, 51368), (105, 51413), (111, 51440), (119, 51503), (135,

51581), (157, 51680),

Gene: Kimona_81 Start: 46685, Stop: 46218, Start Num: 70
Candidate Starts for Kimona_81:
(21, 46847), (Start: 57 @46706 has 3 MA's), (Start: 70 @46685 has 1 MA's), (Start: 81 @46673 has 10 MA's), (84, 46664), (90, 46637), (97, 46604), (105, 46526), (156, 46256),

Gene: Kingmustik0402_81 Start: 47888, Stop: 47418, Start Num: 60
Candidate Starts for Kingmustik0402_81:
(Start: 57 @47906 has 3 MA's), (Start: 60 @47888 has 158 MA's), (Start: 66 @47879 has 1 MA's), (Start: 69 @47876 has 23 MA's), (Start: 81 @47858 has 10 MA's), (91, 47819), (111, 47684), (127, 47567),

Gene: Kipper29_84 Start: 46022, Stop: 45570, Start Num: 64
Candidate Starts for Kipper29_84:
(Start: 64 @46022 has 43 MA's), (Start: 81 @45995 has 10 MA's), (97, 45929), (105, 45851), (135, 45683),

Gene: KittenMittens_76 Start: 46673, Stop: 46209, Start Num: 60
Candidate Starts for KittenMittens_76:
(Start: 60 @46673 has 158 MA's), (Start: 66 @46664 has 1 MA's), (Start: 81 @46649 has 10 MA's), (127, 46358),

Gene: Koan_78 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for Koan_78:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (111, 47695), (127, 47578),

Gene: Koko_87 Start: 46875, Stop: 46414, Start Num: 64
Candidate Starts for Koko_87:
(Start: 64 @46875 has 43 MA's), (Start: 81 @46848 has 10 MA's), (95, 46788), (105, 46695), (124, 46581),

Gene: Koreni_80 Start: 47580, Stop: 47110, Start Num: 60
Candidate Starts for Koreni_80:
(Start: 57 @47598 has 3 MA's), (Start: 60 @47580 has 158 MA's), (Start: 66 @47571 has 1 MA's), (Start: 69 @47568 has 23 MA's), (Start: 81 @47550 has 10 MA's), (91, 47511), (111, 47376), (127, 47259),

Gene: Kratark_80 Start: 47933, Stop: 47463, Start Num: 60
Candidate Starts for Kratark_80:
(Start: 57 @47951 has 3 MA's), (Start: 60 @47933 has 158 MA's), (Start: 66 @47924 has 1 MA's), (Start: 69 @47921 has 23 MA's), (Start: 81 @47903 has 10 MA's), (91, 47864), (111, 47729), (127, 47612),

Gene: Kraw_81 Start: 51233, Stop: 51790, Start Num: 81
Candidate Starts for Kraw_81:
(14, 51011), (18, 51026), (26, 51062), (31, 51083), (36, 51110), (44, 51140), (Start: 64 @51200 has 43 MA's), (Start: 69 @51209 has 23 MA's), (Start: 72 @51218 has 12 MA's), (Start: 81 @51233 has 10 MA's), (97, 51302), (104, 51377), (105, 51380), (111, 51407), (119, 51470), (135, 51548), (169, 51713), (171, 51719), (175, 51758),

Gene: Kremtemulon_78 Start: 47779, Stop: 47309, Start Num: 60
Candidate Starts for Kremtemulon_78:
(Start: 57 @47797 has 3 MA's), (Start: 60 @47779 has 158 MA's), (Start: 66 @47770 has 1 MA's), (Start: 69 @47767 has 23 MA's), (Start: 81 @47749 has 10 MA's), (91, 47710), (111, 47575), (127, 47458),

Gene: Kristoff_78 Start: 47941, Stop: 47477, Start Num: 60
Candidate Starts for Kristoff_78:
(Start: 60 @47941 has 158 MA's), (Start: 66 @47932 has 1 MA's), (Start: 81 @47917 has 10 MA's), (119, 47680),

Gene: Krueger_83 Start: 51452, Stop: 52018, Start Num: 29
Candidate Starts for Krueger_83:
(Start: 29 @51452 has 15 MA's), (34, 51482), (Start: 69 @51563 has 23 MA's), (Start: 81 @51584 has 10 MA's), (99, 51686), (105, 51731), (119, 51821), (135, 51899), (144, 51953), (157, 51998),

Gene: Kyee_81 Start: 47894, Stop: 47424, Start Num: 60
Candidate Starts for Kyee_81:
(Start: 57 @47912 has 3 MA's), (Start: 60 @47894 has 158 MA's), (Start: 66 @47885 has 1 MA's), (Start: 69 @47882 has 23 MA's), (Start: 81 @47864 has 10 MA's), (91, 47825), (111, 47690), (127, 47573),

Gene: LHTSCC_83 Start: 48339, Stop: 47869, Start Num: 60
Candidate Starts for LHTSCC_83:
(Start: 57 @48357 has 3 MA's), (Start: 60 @48339 has 158 MA's), (Start: 66 @48330 has 1 MA's), (Start: 69 @48327 has 23 MA's), (Start: 81 @48309 has 10 MA's), (91, 48270), (111, 48135), (127, 48018),

Gene: Landor_82 Start: 48758, Stop: 48288, Start Num: 60
Candidate Starts for Landor_82:
(Start: 60 @48758 has 158 MA's), (Start: 66 @48749 has 1 MA's), (Start: 81 @48734 has 10 MA's), (119, 48494),

Gene: LappelDuVide_81 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for LappelDuVide_81:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (105, 47722), (111, 47695), (119, 47632), (127, 47578),

Gene: LastHope_83 Start: 51070, Stop: 51531, Start Num: 67
Candidate Starts for LastHope_83:
(Start: 67 @51070 has 66 MA's), (71, 51076), (Start: 81 @51097 has 10 MA's), (84, 51106), (90, 51133), (97, 51166), (104, 51241), (111, 51271), (112, 51274), (119, 51334), (135, 51412), (157, 51511),

Gene: LastResort_85 Start: 47049, Stop: 46582, Start Num: 61
Candidate Starts for LastResort_85:
(Start: 61 @47049 has 15 MA's), (Start: 81 @47037 has 10 MA's), (91, 46998), (94, 46983),

Gene: LeMond_78 Start: 50717, Stop: 51304, Start Num: 30
Candidate Starts for LeMond_78:
(Start: 30 @50717 has 16 MA's), (42, 50774), (Start: 64 @50837 has 43 MA's), (Start: 81 @50870 has 10 MA's), (83, 50876), (97, 50939), (99, 50972), (105, 51017), (111, 51044), (119, 51107), (135,

51185), (157, 51284),

Gene: Lea83_79 Start: 51451, Stop: 52014, Start Num: 30
Candidate Starts for Lea83_79:
(Start: 30 @51451 has 16 MA's), (41, 51508), (52, 51532), (Start: 81 @51583 has 10 MA's), (83, 51589), (90, 51619), (97, 51652), (99, 51685), (105, 51730), (117, 51793), (119, 51820), (144, 51952),

Gene: Lebo14_80 Start: 51635, Stop: 52210, Start Num: 72
Candidate Starts for Lebo14_80:
(14, 51437), (26, 51488), (36, 51542), (44, 51572), (Start: 64 @51617 has 43 MA's), (Start: 69 @51626 has 23 MA's), (Start: 72 @51635 has 12 MA's), (Start: 81 @51650 has 10 MA's), (97, 51719), (105, 51797), (111, 51824), (119, 51887), (135, 51965), (171, 52139), (175, 52178),

Gene: Lemur_81 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for Lemur_81:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: Lilbunny_85 Start: 46117, Stop: 45656, Start Num: 64
Candidate Starts for Lilbunny_85:
(Start: 64 @46117 has 43 MA's), (Start: 81 @46090 has 10 MA's), (95, 46030), (105, 45937), (124, 45823),

Gene: LindNT_75 Start: 50926, Stop: 51387, Start Num: 67
Candidate Starts for LindNT_75:
(Start: 67 @50926 has 66 MA's), (Start: 81 @50953 has 10 MA's), (84, 50962), (97, 51022), (103, 51085), (112, 51130), (135, 51268), (156, 51364), (157, 51367),

Gene: LittleB_81 Start: 47900, Stop: 47430, Start Num: 60
Candidate Starts for LittleB_81:
(Start: 57 @47918 has 3 MA's), (Start: 60 @47900 has 158 MA's), (Start: 66 @47891 has 1 MA's), (Start: 69 @47888 has 23 MA's), (Start: 81 @47870 has 10 MA's), (91, 47831), (111, 47696), (127, 47579),

Gene: LittleGuy_81 Start: 47787, Stop: 47314, Start Num: 60
Candidate Starts for LittleGuy_81:
(Start: 57 @47805 has 3 MA's), (Start: 60 @47787 has 158 MA's), (82, 47754), (91, 47715), (94, 47700), (99, 47652), (111, 47580), (127, 47463),

Gene: Llorens_76 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for Llorens_76:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: LochMonster_82 Start: 48136, Stop: 47666, Start Num: 60
Candidate Starts for LochMonster_82:
(Start: 57 @48154 has 3 MA's), (Start: 60 @48136 has 158 MA's), (Start: 66 @48127 has 1 MA's), (Start: 69 @48124 has 23 MA's), (Start: 81 @48106 has 10 MA's), (91, 48067), (111, 47932), (127, 47815),

Gene: Lokum_76 Start: 50462, Stop: 50923, Start Num: 67
Candidate Starts for Lokum_76:

(Start: 67 @50462 has 66 MA's), (Start: 81 @50489 has 10 MA's), (84, 50498), (97, 50558), (103, 50621), (111, 50663), (112, 50666), (119, 50726), (135, 50804), (156, 50900), (157, 50903),

Gene: Lorenzo_81 Start: 47897, Stop: 47427, Start Num: 60
Candidate Starts for Lorenzo_81:
(Start: 57 @47915 has 3 MA's), (Start: 60 @47897 has 158 MA's), (Start: 66 @47888 has 1 MA's), (Start: 69 @47885 has 23 MA's), (Start: 81 @47867 has 10 MA's), (91, 47828), (111, 47693), (127, 47576),

Gene: Luchador_83 Start: 47820, Stop: 47353, Start Num: 69
Candidate Starts for Luchador_83:
(Start: 69 @47820 has 23 MA's), (Start: 81 @47808 has 10 MA's), (111, 47628), (115, 47607), (136, 47478), (140, 47457),

Gene: Lunahalos_76 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for Lunahalos_76:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: Lunsford_81 Start: 47892, Stop: 47422, Start Num: 60
Candidate Starts for Lunsford_81:
(Start: 57 @47910 has 3 MA's), (Start: 60 @47892 has 158 MA's), (Start: 66 @47883 has 1 MA's), (Start: 69 @47880 has 23 MA's), (Start: 81 @47862 has 10 MA's), (91, 47823), (97, 47793), (105, 47715), (111, 47688), (119, 47625), (127, 47571),

Gene: MacnCheese_81 Start: 51963, Stop: 52529, Start Num: 30
Candidate Starts for MacnCheese_81:
(Start: 30 @51963 has 16 MA's), (34, 51993), (Start: 69 @52074 has 23 MA's), (Start: 81 @52098 has 10 MA's), (83, 52104), (99, 52200), (105, 52245), (119, 52335), (144, 52467),

Gene: Malthus_82 Start: 51209, Stop: 51790, Start Num: 69
Candidate Starts for Malthus_82:
(14, 51011), (18, 51026), (26, 51062), (31, 51083), (36, 51110), (44, 51140), (Start: 64 @51200 has 43 MA's), (Start: 69 @51209 has 23 MA's), (Start: 72 @51218 has 12 MA's), (Start: 81 @51233 has 10 MA's), (97, 51302), (104, 51377), (105, 51380), (111, 51407), (119, 51470), (135, 51548), (169, 51713), (171, 51719), (175, 51758),

Gene: Marcoliusprime_81 Start: 53325, Stop: 53894, Start Num: 73
Candidate Starts for Marcoliusprime_81:
(Start: 73 @53325 has 12 MA's), (Start: 81 @53334 has 10 MA's), (89, 53364), (99, 53436), (105, 53481), (111, 53508), (112, 53511), (119, 53571), (172, 53835), (174, 53850),

Gene: Margaret_39 Start: 27083, Stop: 26442, Start Num: 19
Candidate Starts for Margaret_39:
(Start: 19 @27083 has 1 MA's), (Start: 28 @27044 has 9 MA's), (51, 26957), (71, 26924), (Start: 81 @26903 has 10 MA's), (90, 26867), (97, 26834), (105, 26756), (107, 26750), (112, 26726), (119, 26669), (160, 26465),

Gene: MarkPhew_78 Start: 50597, Stop: 51175, Start Num: 30
Candidate Starts for MarkPhew_78:
(10, 50516), (11, 50519), (12, 50522), (Start: 30 @50597 has 16 MA's), (Start: 69 @50714 has 23 MA's), (Start: 81 @50738 has 10 MA's), (83, 50744), (99, 50840), (104, 50882), (105, 50885), (111, 50912), (119, 50975), (135, 51053), (157, 51155),

Gene: Marshawn_75 Start: 50991, Stop: 51566, Start Num: 30
Candidate Starts for Marshawn_75:
(11, 50913), (12, 50916), (Start: 30 @50991 has 16 MA's), (Start: 69 @51108 has 23 MA's), (Start: 81 @51132 has 10 MA's), (83, 51138), (97, 51201), (98, 51204), (99, 51234), (104, 51276), (105, 51279), (111, 51306), (115, 51327), (119, 51369), (135, 51447), (157, 51546),

Gene: Maupel_243 Start: 114275, Stop: 114730, Start Num: 79
Candidate Starts for Maupel_243:
(76, 114272), (Start: 79 @114275 has 19 MA's), (91, 114314), (103, 114413), (104, 114425), (113, 114464), (119, 114515), (135, 114596), (160, 114716), (161, 114719),

Gene: Maverick_80 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for Maverick_80:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: Maxo_83 Start: 47902, Stop: 47432, Start Num: 60
Candidate Starts for Maxo_83:
(Start: 57 @47920 has 3 MA's), (Start: 60 @47902 has 158 MA's), (Start: 66 @47893 has 1 MA's), (Start: 69 @47890 has 23 MA's), (Start: 81 @47872 has 10 MA's), (91, 47833), (111, 47698), (127, 47581),

Gene: Mazhar510_81 Start: 47897, Stop: 47427, Start Num: 60
Candidate Starts for Mazhar510_81:
(Start: 57 @47915 has 3 MA's), (Start: 60 @47897 has 158 MA's), (Start: 66 @47888 has 1 MA's), (Start: 69 @47885 has 23 MA's), (Start: 81 @47867 has 10 MA's), (91, 47828), (111, 47693), (127, 47576),

Gene: McFly_84 Start: 46358, Stop: 45906, Start Num: 64
Candidate Starts for McFly_84:
(Start: 64 @46358 has 43 MA's), (Start: 81 @46331 has 10 MA's), (97, 46265), (105, 46187), (135, 46019),

Gene: McMater_79 Start: 51840, Stop: 52403, Start Num: 29
Candidate Starts for McMater_79:
(Start: 29 @51840 has 15 MA's), (34, 51870), (Start: 69 @51948 has 23 MA's), (Start: 81 @51969 has 10 MA's), (83, 51975), (97, 52038), (99, 52071), (104, 52113), (105, 52116), (112, 52146), (119, 52206), (135, 52284), (156, 52380), (157, 52383),

Gene: Medusa_80 Start: 47912, Stop: 47442, Start Num: 60
Candidate Starts for Medusa_80:
(Start: 57 @47930 has 3 MA's), (Start: 60 @47912 has 158 MA's), (Start: 66 @47903 has 1 MA's), (Start: 69 @47900 has 23 MA's), (Start: 81 @47882 has 10 MA's), (91, 47843), (111, 47708), (127, 47591),

Gene: MeeZee_80 Start: 47893, Stop: 47423, Start Num: 60
Candidate Starts for MeeZee_80:
(5, 48124), (Start: 57 @47911 has 3 MA's), (Start: 60 @47893 has 158 MA's), (Start: 66 @47884 has 1 MA's), (Start: 69 @47881 has 23 MA's), (Start: 81 @47863 has 10 MA's), (91, 47824), (111, 47689), (127, 47572),

Gene: MeganTheeKilla_243 Start: 114982, Stop: 115437, Start Num: 79
Candidate Starts for MeganTheeKilla_243:
(76, 114979), (Start: 79 @114982 has 19 MA's), (91, 115021), (103, 115120), (104, 115132), (113, 115171), (119, 115222), (135, 115303), (160, 115423), (161, 115426),

Gene: Melvin_83 Start: 47912, Stop: 47424, Start Num: 57
Candidate Starts for Melvin_83:
(Start: 57 @47912 has 3 MA's), (Start: 60 @47894 has 158 MA's), (Start: 66 @47885 has 1 MA's), (Start: 69 @47882 has 23 MA's), (Start: 81 @47864 has 10 MA's), (91, 47825), (111, 47690), (127, 47573),

Gene: Millski_80 Start: 47900, Stop: 47430, Start Num: 60
Candidate Starts for Millski_80:
(5, 48131), (Start: 57 @47918 has 3 MA's), (Start: 60 @47900 has 158 MA's), (Start: 66 @47891 has 1 MA's), (Start: 69 @47888 has 23 MA's), (Start: 81 @47870 has 10 MA's), (91, 47831), (111, 47696), (127, 47579),

Gene: Milly_82 Start: 53316, Stop: 53885, Start Num: 73
Candidate Starts for Milly_82:
(Start: 73 @53316 has 12 MA's), (Start: 81 @53325 has 10 MA's), (89, 53355), (99, 53427), (105, 53472), (111, 53499), (112, 53502), (119, 53562), (172, 53826), (174, 53841),

Gene: Mimi_213 Start: 145732, Stop: 146400, Start Num: 25
Candidate Starts for Mimi_213:
(Start: 6 @145654 has 1 MA's), (Start: 25 @145732 has 9 MA's), (32, 145774), (39, 145804), (48, 145837), (129, 146227), (133, 146254), (154, 146365),

Gene: MinecraftSteve_88 Start: 47100, Stop: 46633, Start Num: 61
Candidate Starts for MinecraftSteve_88:
(Start: 61 @47100 has 15 MA's), (Start: 81 @47088 has 10 MA's), (91, 47049), (94, 47034),

Gene: Miramae_81 Start: 47833, Stop: 47345, Start Num: 57
Candidate Starts for Miramae_81:
(Start: 57 @47833 has 3 MA's), (Start: 60 @47815 has 158 MA's), (Start: 73 @47788 has 12 MA's), (Start: 81 @47782 has 10 MA's), (94, 47728), (97, 47713), (111, 47608), (127, 47491),

Gene: MissDaisy_78 Start: 49211, Stop: 49774, Start Num: 72
Candidate Starts for MissDaisy_78:
(Start: 69 @49202 has 23 MA's), (Start: 72 @49211 has 12 MA's), (75, 49220), (Start: 81 @49226 has 10 MA's), (94, 49280), (97, 49295), (105, 49373), (111, 49400), (119, 49463), (135, 49541), (175, 49742),

Gene: Mitti_81 Start: 51367, Stop: 51951, Start Num: 69
Candidate Starts for Mitti_81:
(14, 51178), (26, 51229), (36, 51283), (44, 51313), (Start: 64 @51358 has 43 MA's), (Start: 69 @51367 has 23 MA's), (Start: 72 @51376 has 12 MA's), (Start: 81 @51391 has 10 MA's), (97, 51460), (105, 51538), (111, 51565), (119, 51628), (135, 51706), (171, 51880), (175, 51919),

Gene: Moab_243 Start: 117249, Stop: 117701, Start Num: 79
Candidate Starts for Moab_243:
(76, 117246), (Start: 79 @117249 has 19 MA's), (91, 117288), (103, 117387), (113, 117438), (131, 117555), (135, 117570), (160, 117687),

Gene: Morpher26_77 Start: 47538, Stop: 47071, Start Num: 60
Candidate Starts for Morpher26_77:
(Start: 57 @47556 has 3 MA's), (Start: 60 @47538 has 158 MA's), (Start: 66 @47529 has 1 MA's), (Start: 69 @47526 has 23 MA's), (Start: 81 @47508 has 10 MA's), (91, 47469), (111, 47334), (119, 47271), (127, 47217),

Gene: Morrow_83 Start: 47939, Stop: 47469, Start Num: 60
Candidate Starts for Morrow_83:
(Start: 57 @47957 has 3 MA's), (Start: 60 @47939 has 158 MA's), (Start: 66 @47930 has 1 MA's), (Start: 69 @47927 has 23 MA's), (Start: 81 @47909 has 10 MA's), (91, 47870), (105, 47762), (111, 47735), (119, 47672), (127, 47618),

Gene: Mufasa_81 Start: 52782, Stop: 53354, Start Num: 73
Candidate Starts for Mufasa_81:
(Start: 73 @52782 has 12 MA's), (Start: 81 @52794 has 10 MA's), (105, 52941), (111, 52968), (112, 52971), (119, 53031), (172, 53295), (174, 53310),

Gene: Mundrea_79 Start: 47777, Stop: 47307, Start Num: 60
Candidate Starts for Mundrea_79:
(Start: 57 @47795 has 3 MA's), (Start: 60 @47777 has 158 MA's), (Start: 73 @47750 has 12 MA's), (Start: 81 @47744 has 10 MA's), (94, 47690), (97, 47675), (111, 47570), (127, 47453),

Gene: Muntaha_214 Start: 105868, Stop: 106320, Start Num: 81
Candidate Starts for Muntaha_214:
(Start: 81 @105868 has 10 MA's), (88, 105892), (91, 105907), (92, 105910), (103, 106000), (106, 106018), (113, 106051), (149, 106252), (161, 106309),

Gene: Murucutumbu_77 Start: 51702, Stop: 52163, Start Num: 68
Candidate Starts for Murucutumbu_77:
(47, 51651), (55, 51669), (Start: 68 @51702 has 2 MA's), (Start: 81 @51729 has 10 MA's), (84, 51738), (97, 51798), (103, 51861), (104, 51873), (111, 51903), (112, 51906), (135, 52044), (156, 52140), (157, 52143),

Gene: Mynx_78 Start: 51192, Stop: 51653, Start Num: 67
Candidate Starts for Mynx_78:
(Start: 67 @51192 has 66 MA's), (Start: 81 @51219 has 10 MA's), (84, 51228), (97, 51288), (103, 51351), (111, 51393), (112, 51396), (135, 51534), (156, 51630), (157, 51633),

Gene: Myrna_230 Start: 134129, Stop: 134599, Start Num: 72
Candidate Starts for Myrna_230:
(Start: 72 @134129 has 12 MA's), (Start: 81 @134144 has 10 MA's), (105, 134291), (111, 134318), (119, 134378),

Gene: Nebs_82 Start: 47939, Stop: 47469, Start Num: 60
Candidate Starts for Nebs_82:
(Start: 57 @47957 has 3 MA's), (Start: 60 @47939 has 158 MA's), (Start: 66 @47930 has 1 MA's), (Start: 69 @47927 has 23 MA's), (Start: 81 @47909 has 10 MA's), (91, 47870), (111, 47735), (127, 47618),

Gene: Nebulosus_84 Start: 46606, Stop: 46139, Start Num: 61
Candidate Starts for Nebulosus_84:
(Start: 61 @46606 has 15 MA's), (Start: 81 @46594 has 10 MA's), (91, 46555), (94, 46540),

Gene: Neeharika16_83 Start: 46108, Stop: 45656, Start Num: 64
Candidate Starts for Neeharika16_83:
(Start: 64 @46108 has 43 MA's), (Start: 81 @46081 has 10 MA's), (97, 46015), (105, 45937), (135, 45769),

Gene: Nemo27_80 Start: 47895, Stop: 47425, Start Num: 60
Candidate Starts for Nemo27_80:
(Start: 57 @47913 has 3 MA's), (Start: 60 @47895 has 158 MA's), (Start: 66 @47886 has 1 MA's), (Start: 69 @47883 has 23 MA's), (Start: 81 @47865 has 10 MA's), (91, 47826), (111, 47691), (127, 47574),

Gene: Newrala_83 Start: 46453, Stop: 45992, Start Num: 64
Candidate Starts for Newrala_83:
(Start: 64 @46453 has 43 MA's), (Start: 81 @46426 has 10 MA's), (95, 46366), (105, 46273), (135, 46105),

Gene: Nibb_78 Start: 50412, Stop: 50990, Start Num: 30
Candidate Starts for Nibb_78:
(Start: 30 @50412 has 16 MA's), (71, 50535), (Start: 81 @50556 has 10 MA's), (83, 50562), (104, 50700), (105, 50703), (111, 50730), (119, 50793), (135, 50871), (157, 50970),

Gene: Niklas_80 Start: 51901, Stop: 52464, Start Num: 29
Candidate Starts for Niklas_80:
(Start: 29 @51901 has 15 MA's), (34, 51931), (Start: 69 @52009 has 23 MA's), (Start: 81 @52030 has 10 MA's), (83, 52036), (97, 52099), (99, 52132), (104, 52174), (105, 52177), (112, 52207), (119, 52267), (135, 52345), (156, 52441), (157, 52444),

Gene: NoShow_78 Start: 51191, Stop: 51799, Start Num: 27
Candidate Starts for NoShow_78:
(Start: 27 @51191 has 1 MA's), (43, 51266), (Start: 60 @51320 has 158 MA's), (Start: 68 @51332 has 2 MA's), (Start: 81 @51359 has 10 MA's), (86, 51377), (105, 51506), (112, 51536), (119, 51593),

Gene: Nodigi_40 Start: 28027, Stop: 27425, Start Num: 28
Candidate Starts for Nodigi_40:
(22, 28057), (Start: 28 @28027 has 9 MA's), (50, 27943), (Start: 81 @27886 has 10 MA's), (105, 27739), (107, 27733), (112, 27709), (119, 27652), (154, 27469),

Gene: Noelle_78 Start: 47735, Stop: 47277, Start Num: 66
Candidate Starts for Noelle_78:
(4, 48020), (7, 47960), (Start: 57 @47762 has 3 MA's), (Start: 60 @47744 has 158 MA's), (Start: 66 @47735 has 1 MA's), (Start: 69 @47732 has 23 MA's), (Start: 81 @47714 has 10 MA's), (91, 47675), (111, 47540), (127, 47423),

Gene: Nolwazi_83 Start: 51436, Stop: 52011, Start Num: 72
Candidate Starts for Nolwazi_83:
(14, 51238), (26, 51289), (36, 51343), (44, 51373), (Start: 64 @51418 has 43 MA's), (Start: 69 @51427 has 23 MA's), (Start: 72 @51436 has 12 MA's), (Start: 81 @51451 has 10 MA's), (97, 51520), (105, 51598), (111, 51625), (119, 51688), (135, 51766), (171, 51940), (175, 51979),

Gene: NorthStar_78 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for NorthStar_78:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (111, 47695), (127,

47578),

Gene: Northrop_78 Start: 47895, Stop: 47425, Start Num: 60
Candidate Starts for Northrop_78:
(Start: 57 @47913 has 3 MA's), (Start: 60 @47895 has 158 MA's), (Start: 66 @47886 has 1 MA's), (Start: 69 @47883 has 23 MA's), (Start: 81 @47865 has 10 MA's), (91, 47826), (105, 47718), (111, 47691), (119, 47628), (127, 47574),

Gene: NotAPhaseMom_80 Start: 47900, Stop: 47430, Start Num: 60
Candidate Starts for NotAPhaseMom_80:
(Start: 57 @47918 has 3 MA's), (Start: 60 @47900 has 158 MA's), (Start: 66 @47891 has 1 MA's), (Start: 69 @47888 has 23 MA's), (Start: 81 @47870 has 10 MA's), (91, 47831), (111, 47696), (127, 47579),

Gene: Nyxis_80 Start: 47781, Stop: 47308, Start Num: 60
Candidate Starts for Nyxis_80:
(Start: 57 @47799 has 3 MA's), (Start: 60 @47781 has 158 MA's), (82, 47748), (91, 47709), (94, 47694), (99, 47646), (111, 47574), (127, 47457),

Gene: OKCentral2016_79 Start: 46747, Stop: 46280, Start Num: 59
Candidate Starts for OKCentral2016_79:
(Start: 57 @46762 has 3 MA's), (Start: 59 @46747 has 8 MA's), (Start: 69 @46732 has 23 MA's), (Start: 81 @46720 has 10 MA's), (97, 46651), (105, 46573), (111, 46546), (127, 46429),

Gene: OKaNui_80 Start: 47950, Stop: 47480, Start Num: 60
Candidate Starts for OKaNui_80:
(Start: 57 @47968 has 3 MA's), (Start: 60 @47950 has 158 MA's), (Start: 66 @47941 has 1 MA's), (Start: 69 @47938 has 23 MA's), (Start: 81 @47920 has 10 MA's), (91, 47881), (111, 47746), (127, 47629),

Gene: Obama12_82 Start: 48323, Stop: 47853, Start Num: 60
Candidate Starts for Obama12_82:
(Start: 57 @48341 has 3 MA's), (Start: 60 @48323 has 158 MA's), (Start: 66 @48314 has 1 MA's), (Start: 69 @48311 has 23 MA's), (Start: 81 @48293 has 10 MA's), (91, 48254), (111, 48119), (127, 48002),

Gene: Ohfah_82 Start: 47939, Stop: 47469, Start Num: 60
Candidate Starts for Ohfah_82:
(Start: 57 @47957 has 3 MA's), (Start: 60 @47939 has 158 MA's), (Start: 66 @47930 has 1 MA's), (Start: 69 @47927 has 23 MA's), (Start: 81 @47909 has 10 MA's), (91, 47870), (111, 47735), (127, 47618),

Gene: OmniCritical_81 Start: 51378, Stop: 51953, Start Num: 72
Candidate Starts for OmniCritical_81:
(14, 51180), (26, 51231), (36, 51285), (44, 51315), (Start: 64 @51360 has 43 MA's), (Start: 69 @51369 has 23 MA's), (Start: 72 @51378 has 12 MA's), (Start: 81 @51393 has 10 MA's), (97, 51462), (105, 51540), (111, 51567), (115, 51588), (119, 51630), (135, 51708), (171, 51882), (175, 51921),

Gene: Orla_40 Start: 28015, Stop: 27413, Start Num: 28
Candidate Starts for Orla_40:
(15, 28072), (17, 28066), (22, 28045), (Start: 28 @28015 has 9 MA's), (Start: 81 @27874 has 10 MA's), (105, 27727), (107, 27721), (112, 27697), (119, 27640),

Gene: Oscar_78 Start: 50636, Stop: 51223, Start Num: 30
Candidate Starts for Oscar_78:
(Start: 30 @50636 has 16 MA's), (42, 50693), (Start: 64 @50756 has 43 MA's), (Start: 81 @50789 has 10 MA's), (83, 50795), (97, 50858), (99, 50891), (105, 50936), (111, 50963), (119, 51026), (135, 51104), (157, 51203),

Gene: Padfoot_76 Start: 50658, Stop: 51119, Start Num: 67
Candidate Starts for Padfoot_76:
(Start: 67 @50658 has 66 MA's), (Start: 81 @50685 has 10 MA's), (84, 50694), (97, 50754), (103, 50817), (111, 50859), (112, 50862), (119, 50922), (135, 51000), (156, 51096), (157, 51099),

Gene: Padpat_80 Start: 50897, Stop: 51358, Start Num: 67
Candidate Starts for Padpat_80:
(Start: 67 @50897 has 66 MA's), (Start: 81 @50924 has 10 MA's), (84, 50933), (97, 50993), (103, 51056), (112, 51101), (135, 51239), (156, 51335), (157, 51338),

Gene: Palestino_80 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for Palestino_80:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: Patbob_211 Start: 146130, Stop: 146798, Start Num: 25
Candidate Starts for Patbob_211:
(Start: 6 @146052 has 1 MA's), (Start: 25 @146130 has 9 MA's), (32, 146172), (39, 146202), (48, 146235), (129, 146625), (133, 146652), (134, 146655), (154, 146763),

Gene: Patelgo_242 Start: 117496, Stop: 117948, Start Num: 79
Candidate Starts for Patelgo_242:
(76, 117493), (Start: 79 @117496 has 19 MA's), (91, 117535), (103, 117634), (113, 117685), (128, 117796), (131, 117802), (135, 117817), (160, 117934),

Gene: Patt_77 Start: 49361, Stop: 49933, Start Num: 69
Candidate Starts for Patt_77:
(14, 49163), (18, 49178), (26, 49214), (31, 49235), (36, 49262), (44, 49292), (Start: 69 @49361 has 23 MA's), (Start: 72 @49370 has 12 MA's), (Start: 81 @49385 has 10 MA's), (94, 49439), (97, 49454), (105, 49532), (111, 49559), (119, 49622), (135, 49700), (175, 49901),

Gene: PeaceMeal1_77 Start: 46674, Stop: 46210, Start Num: 60
Candidate Starts for PeaceMeal1_77:
(Start: 60 @46674 has 158 MA's), (Start: 66 @46665 has 1 MA's), (Start: 81 @46650 has 10 MA's), (127, 46359),

Gene: Peaches_79 Start: 47901, Stop: 47428, Start Num: 60
Candidate Starts for Peaches_79:
(Start: 57 @47919 has 3 MA's), (Start: 60 @47901 has 158 MA's), (82, 47868), (91, 47829), (94, 47814), (99, 47766), (111, 47694), (127, 47577),

Gene: Peanam_80 Start: 51859, Stop: 52422, Start Num: 29
Candidate Starts for Peanam_80:
(Start: 29 @51859 has 15 MA's), (34, 51889), (Start: 69 @51967 has 23 MA's), (Start: 81 @51988 has 10 MA's), (83, 51994), (97, 52057), (99, 52090), (104, 52132), (105, 52135), (112, 52165), (119, 52225), (135, 52303), (156, 52399), (157, 52402),

Gene: Peel_76 Start: 50463, Stop: 50924, Start Num: 67
Candidate Starts for Peel_76:
(Start: 67 @50463 has 66 MA's), (Start: 81 @50490 has 10 MA's), (84, 50499), (97, 50559), (103, 50622), (111, 50664), (112, 50667), (119, 50727), (135, 50805), (156, 50901), (157, 50904),

Gene: Perplexer_77 Start: 47518, Stop: 47051, Start Num: 60
Candidate Starts for Perplexer_77:
(Start: 57 @47536 has 3 MA's), (Start: 60 @47518 has 158 MA's), (Start: 66 @47509 has 1 MA's), (Start: 69 @47506 has 23 MA's), (Start: 81 @47488 has 10 MA's), (91, 47449), (111, 47314), (119, 47251), (127, 47197),

Gene: PeterPeter_81 Start: 47893, Stop: 47423, Start Num: 60
Candidate Starts for PeterPeter_81:
(Start: 57 @47911 has 3 MA's), (Start: 60 @47893 has 158 MA's), (Start: 66 @47884 has 1 MA's), (Start: 69 @47881 has 23 MA's), (Start: 81 @47863 has 10 MA's), (91, 47824), (111, 47689), (127, 47572),

Gene: PetiteSangsue_77 Start: 47521, Stop: 47054, Start Num: 60
Candidate Starts for PetiteSangsue_77:
(Start: 57 @47539 has 3 MA's), (Start: 60 @47521 has 158 MA's), (Start: 66 @47512 has 1 MA's), (Start: 69 @47509 has 23 MA's), (Start: 81 @47491 has 10 MA's), (91, 47452), (111, 47317), (119, 47254), (127, 47200),

Gene: Phabba_240 Start: 133855, Stop: 134328, Start Num: 72
Candidate Starts for Phabba_240:
(Start: 72 @133855 has 12 MA's), (Start: 81 @133870 has 10 MA's), (105, 134017), (119, 134104), (135, 134206), (157, 134308),

Gene: Phacado_81 Start: 47895, Stop: 47425, Start Num: 60
Candidate Starts for Phacado_81:
(Start: 57 @47913 has 3 MA's), (Start: 60 @47895 has 158 MA's), (Start: 66 @47886 has 1 MA's), (Start: 69 @47883 has 23 MA's), (Start: 81 @47865 has 10 MA's), (91, 47826), (111, 47691), (127, 47574),

Gene: Phaded_78 Start: 48717, Stop: 48247, Start Num: 60
Candidate Starts for Phaded_78:
(Start: 60 @48717 has 158 MA's), (Start: 66 @48708 has 1 MA's), (Start: 81 @48693 has 10 MA's), (90, 48657), (119, 48453),

Gene: Pharb_77 Start: 50633, Stop: 51190, Start Num: 72
Candidate Starts for Pharb_77:
(Start: 72 @50633 has 12 MA's), (Start: 81 @50648 has 10 MA's), (97, 50717), (98, 50720), (105, 50795), (119, 50885), (144, 51017), (168, 51113), (170, 51125), (173, 51140), (177, 51182),

Gene: Phelipe_81 Start: 47860, Stop: 47345, Start Num: 60
Candidate Starts for Phelipe_81:
(Start: 57 @47878 has 3 MA's), (Start: 60 @47860 has 158 MA's), (Start: 66 @47851 has 1 MA's), (Start: 69 @47848 has 23 MA's), (Start: 81 @47830 has 10 MA's), (91, 47791), (111, 47656), (127, 47539),

Gene: PhelpsODU_81 Start: 51079, Stop: 51651, Start Num: 69
Candidate Starts for PhelpsODU_81:

(Start: 69 @51079 has 23 MA's), (Start: 81 @51100 has 10 MA's), (97, 51169), (99, 51202), (101, 51223), (105, 51247), (112, 51277), (119, 51337), (135, 51415), (144, 51469), (150, 51493), (176, 51631),

Gene: Phighter1804_81 Start: 47960, Stop: 47490, Start Num: 60
Candidate Starts for Phighter1804_81:
(Start: 57 @47978 has 3 MA's), (Start: 60 @47960 has 158 MA's), (Start: 66 @47951 has 1 MA's), (Start: 69 @47948 has 23 MA's), (Start: 81 @47930 has 10 MA's), (91, 47891), (111, 47756), (127, 47639),

Gene: Phontbonne_81 Start: 47797, Stop: 47324, Start Num: 60
Candidate Starts for Phontbonne_81:
(Start: 57 @47815 has 3 MA's), (Start: 60 @47797 has 158 MA's), (82, 47764), (91, 47725), (94, 47710), (99, 47662), (111, 47590), (127, 47473),

Gene: Phrampa_207 Start: 146585, Stop: 147253, Start Num: 25
Candidate Starts for Phrampa_207:
(Start: 6 @146507 has 1 MA's), (Start: 25 @146585 has 9 MA's), (32, 146627), (37, 146645), (39, 146657), (48, 146690), (63, 146732), (129, 147080), (133, 147107),

Gene: Phrank_82 Start: 50939, Stop: 51511, Start Num: 69
Candidate Starts for Phrank_82:
(Start: 69 @50939 has 23 MA's), (Start: 81 @50960 has 10 MA's), (97, 51029), (99, 51062), (101, 51083), (105, 51107), (112, 51137), (119, 51197), (135, 51275), (144, 51329), (150, 51353), (164, 51404), (176, 51491),

Gene: Phredrick_245 Start: 114858, Stop: 115313, Start Num: 79
Candidate Starts for Phredrick_245:
(Start: 79 @114858 has 19 MA's), (91, 114897), (94, 114912), (103, 114996), (104, 115008), (113, 115047), (160, 115299), (161, 115302),

Gene: Piatt_75 Start: 50658, Stop: 51119, Start Num: 67
Candidate Starts for Piatt_75:
(Start: 67 @50658 has 66 MA's), (Start: 81 @50685 has 10 MA's), (84, 50694), (97, 50754), (103, 50817), (111, 50859), (112, 50862), (119, 50922), (135, 51000), (156, 51096), (157, 51099),

Gene: Pipcraft_77 Start: 47900, Stop: 47430, Start Num: 60
Candidate Starts for Pipcraft_77:
(Start: 57 @47918 has 3 MA's), (Start: 60 @47900 has 158 MA's), (Start: 66 @47891 has 1 MA's), (Start: 69 @47888 has 23 MA's), (Start: 81 @47870 has 10 MA's), (91, 47831), (111, 47696), (127, 47579),

Gene: Pixie_78 Start: 50938, Stop: 51501, Start Num: 30
Candidate Starts for Pixie_78:
(Start: 30 @50938 has 16 MA's), (41, 50995), (52, 51019), (Start: 81 @51070 has 10 MA's), (83, 51076), (90, 51106), (97, 51139), (99, 51172), (105, 51217), (117, 51280), (119, 51307), (144, 51439),

Gene: Pmask_83 Start: 46654, Stop: 46193, Start Num: 64
Candidate Starts for Pmask_83:
(Start: 64 @46654 has 43 MA's), (Start: 81 @46627 has 10 MA's), (95, 46567), (105, 46474), (135, 46306),

Gene: Pokerus_77 Start: 50906, Stop: 51367, Start Num: 67

Candidate Starts for Pokerus_77:
(Start: 67 @50906 has 66 MA's), (Start: 81 @50933 has 10 MA's), (84, 50942), (97, 51002), (103, 51065), (111, 51107), (112, 51110), (135, 51248), (156, 51344), (157, 51347),

Gene: Polymorphads_82 Start: 47920, Stop: 47450, Start Num: 60
Candidate Starts for Polymorphads_82:
(Start: 57 @47938 has 3 MA's), (Start: 60 @47920 has 158 MA's), (Start: 66 @47911 has 1 MA's), (Start: 69 @47908 has 23 MA's), (Start: 81 @47890 has 10 MA's), (91, 47851), (105, 47743), (111, 47716), (119, 47653), (127, 47599),

Gene: Poompha_77 Start: 46672, Stop: 46208, Start Num: 60
Candidate Starts for Poompha_77:
(Start: 60 @46672 has 158 MA's), (Start: 66 @46663 has 1 MA's), (Start: 81 @46648 has 10 MA's), (127, 46357),

Gene: Prithvi_79 Start: 50926, Stop: 51387, Start Num: 67
Candidate Starts for Prithvi_79:
(Start: 67 @50926 has 66 MA's), (Start: 81 @50953 has 10 MA's), (84, 50962), (97, 51022), (103, 51085), (112, 51130), (135, 51268), (156, 51364), (157, 51367),

Gene: Pukovnik_79 Start: 48185, Stop: 47718, Start Num: 60
Candidate Starts for Pukovnik_79:
(Start: 60 @48185 has 158 MA's), (Start: 66 @48176 has 1 MA's), (Start: 69 @48173 has 23 MA's), (Start: 81 @48161 has 10 MA's), (83, 48155), (97, 48086), (105, 48008), (127, 47867),

Gene: Pumbaa_81 Start: 47844, Stop: 47374, Start Num: 60
Candidate Starts for Pumbaa_81:
(Start: 57 @47862 has 3 MA's), (Start: 60 @47844 has 158 MA's), (Start: 66 @47835 has 1 MA's), (Start: 69 @47832 has 23 MA's), (Start: 81 @47814 has 10 MA's), (91, 47775), (105, 47667), (111, 47640), (119, 47577), (127, 47523),

Gene: Qhanda_83 Start: 51228, Stop: 51812, Start Num: 69
Candidate Starts for Qhanda_83:
(14, 51039), (26, 51090), (36, 51144), (44, 51174), (Start: 64 @51219 has 43 MA's), (Start: 69 @51228 has 23 MA's), (Start: 72 @51237 has 12 MA's), (Start: 81 @51252 has 10 MA's), (97, 51321), (105, 51399), (106, 51402), (111, 51426), (115, 51447), (119, 51489), (135, 51567), (171, 51741), (175, 51780),

Gene: Racecar_215 Start: 146111, Stop: 146779, Start Num: 25
Candidate Starts for Racecar_215:
(Start: 25 @146111 has 9 MA's), (32, 146153), (39, 146183), (48, 146216), (129, 146606), (133, 146633), (154, 146744),

Gene: Ramen_77 Start: 50227, Stop: 50688, Start Num: 67
Candidate Starts for Ramen_77:
(Start: 67 @50227 has 66 MA's), (Start: 81 @50254 has 10 MA's), (84, 50263), (97, 50323), (103, 50386), (111, 50428), (112, 50431), (135, 50569), (156, 50665), (157, 50668),

Gene: RanchParmCat_38 Start: 27186, Stop: 26581, Start Num: 28
Candidate Starts for RanchParmCat_38:
(Start: 28 @27186 has 9 MA's), (51, 27096), (71, 27063), (Start: 81 @27042 has 10 MA's), (90, 27006), (97, 26973), (105, 26895), (107, 26889), (112, 26865), (119, 26808), (160, 26604),

Gene: Rapunzel97_79 Start: 50878, Stop: 51339, Start Num: 67
Candidate Starts for Rapunzel97_79:
(Start: 67 @50878 has 66 MA's), (Start: 81 @50905 has 10 MA's), (84, 50914), (97, 50974), (103, 51037), (111, 51079), (112, 51082), (135, 51220), (156, 51316), (157, 51319),

Gene: ReMo_85 Start: 47046, Stop: 46579, Start Num: 61
Candidate Starts for ReMo_85:
(Start: 61 @47046 has 15 MA's), (Start: 81 @47034 has 10 MA's), (91, 46995), (94, 46980),

Gene: Rebeuca_81 Start: 47942, Stop: 47478, Start Num: 60
Candidate Starts for Rebeuca_81:
(Start: 60 @47942 has 158 MA's), (Start: 66 @47933 has 1 MA's), (Start: 81 @47918 has 10 MA's), (119, 47681),

Gene: Relief_80 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for Relief_80:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: Reptar3000_78 Start: 49350, Stop: 49922, Start Num: 69
Candidate Starts for Reptar3000_78:
(14, 49152), (18, 49167), (26, 49203), (31, 49224), (36, 49251), (44, 49281), (Start: 69 @49350 has 23 MA's), (Start: 72 @49359 has 12 MA's), (Start: 81 @49374 has 10 MA's), (94, 49428), (97, 49443), (105, 49521), (111, 49548), (119, 49611), (135, 49689), (175, 49890),

Gene: RhynO_68 Start: 43272, Stop: 42805, Start Num: 60
Candidate Starts for RhynO_68:
(Start: 60 @43272 has 158 MA's), (Start: 66 @43263 has 1 MA's), (Start: 81 @43245 has 10 MA's), (96, 43179), (105, 43098), (111, 43071), (127, 42954),

Gene: Richo_79 Start: 51840, Stop: 52403, Start Num: 29
Candidate Starts for Richo_79:
(Start: 29 @51840 has 15 MA's), (34, 51870), (Start: 69 @51948 has 23 MA's), (Start: 81 @51969 has 10 MA's), (83, 51975), (97, 52038), (99, 52071), (104, 52113), (105, 52116), (112, 52146), (119, 52206), (135, 52284), (156, 52380), (157, 52383),

Gene: Rifter_86 Start: 45665, Stop: 45204, Start Num: 64
Candidate Starts for Rifter_86:
(Start: 64 @45665 has 43 MA's), (Start: 81 @45638 has 10 MA's), (95, 45578), (105, 45485), (124, 45371), (135, 45317),

Gene: Rockabye_37 Start: 16440, Stop: 16892, Start Num: 77
Candidate Starts for Rockabye_37:
(Start: 77 @16440 has 2 MA's), (91, 16485), (103, 16575), (115, 16638), (125, 16704), (135, 16767), (141, 16800), (145, 16827), (155, 16872),

Gene: Rockabye_216 Start: 140847, Stop: 141524, Start Num: 25
Candidate Starts for Rockabye_216:
(Start: 25 @140847 has 9 MA's), (32, 140886), (100, 141156), (129, 141336), (132, 141360), (152, 141471), (158, 141495), (159, 141498),

Gene: Rockabye_334 Start: 189053, Stop: 189505, Start Num: 77

Candidate Starts for Rockabye_334:
(Start: 77 @189053 has 2 MA's), (91, 189098), (103, 189188), (115, 189251), (125, 189317), (135, 189380), (141, 189413), (145, 189440), (155, 189485),

Gene: RockieBear_81 Start: 47901, Stop: 47428, Start Num: 60
Candidate Starts for RockieBear_81:
(Start: 57 @47919 has 3 MA's), (Start: 60 @47901 has 158 MA's), (82, 47868), (91, 47829), (94, 47814), (99, 47766), (111, 47694), (127, 47577),

Gene: Rocksand_78 Start: 47895, Stop: 47425, Start Num: 60
Candidate Starts for Rocksand_78:
(Start: 57 @47913 has 3 MA's), (Start: 60 @47895 has 158 MA's), (Start: 66 @47886 has 1 MA's), (Start: 69 @47883 has 23 MA's), (Start: 81 @47865 has 10 MA's), (91, 47826), (105, 47718), (111, 47691), (119, 47628), (127, 47574),

Gene: Roksolana_86 Start: 46381, Stop: 45920, Start Num: 64
Candidate Starts for Roksolana_86:
(Start: 64 @46381 has 43 MA's), (Start: 81 @46354 has 10 MA's), (95, 46294), (105, 46201), (124, 46087),

Gene: Romney_80 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for Romney_80:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: Roosevelt_79 Start: 47901, Stop: 47431, Start Num: 60
Candidate Starts for Roosevelt_79:
(Start: 57 @47919 has 3 MA's), (Start: 60 @47901 has 158 MA's), (Start: 66 @47892 has 1 MA's), (Start: 69 @47889 has 23 MA's), (Start: 81 @47871 has 10 MA's), (91, 47832), (105, 47724), (111, 47697), (119, 47634), (127, 47580),

Gene: Rosa24_77 Start: 47918, Stop: 47457, Start Num: 66
Candidate Starts for Rosa24_77:
(Start: 57 @47945 has 3 MA's), (Start: 60 @47927 has 158 MA's), (Start: 66 @47918 has 1 MA's), (Start: 69 @47915 has 23 MA's), (Start: 81 @47897 has 10 MA's), (91, 47858), (111, 47723), (127, 47606),

Gene: Rosmarinus_76 Start: 50449, Stop: 50910, Start Num: 67
Candidate Starts for Rosmarinus_76:
(Start: 67 @50449 has 66 MA's), (Start: 81 @50476 has 10 MA's), (84, 50485), (97, 50545), (103, 50608), (111, 50650), (112, 50653), (119, 50713), (135, 50791), (156, 50887), (157, 50890),

Gene: Rowdy_82 Start: 47658, Stop: 47191, Start Num: 60
Candidate Starts for Rowdy_82:
(Start: 60 @47658 has 158 MA's), (Start: 66 @47649 has 1 MA's), (Start: 81 @47631 has 10 MA's), (105, 47484), (111, 47457), (121, 47382), (127, 47340),

Gene: Ruin_81 Start: 47892, Stop: 47422, Start Num: 60
Candidate Starts for Ruin_81:
(Start: 57 @47910 has 3 MA's), (Start: 60 @47892 has 158 MA's), (Start: 66 @47883 has 1 MA's), (Start: 69 @47880 has 23 MA's), (Start: 81 @47862 has 10 MA's), (91, 47823), (111, 47688), (127, 47571),

Gene: Ruthiejr_82 Start: 51254, Stop: 51847, Start Num: 64
Candidate Starts for Ruthiejr_82:
(14, 51074), (26, 51125), (36, 51179), (44, 51209), (Start: 64 @51254 has 43 MA's), (Start: 69 @51263 has 23 MA's), (Start: 72 @51272 has 12 MA's), (Start: 81 @51287 has 10 MA's), (97, 51356), (105, 51434), (111, 51461), (115, 51482), (119, 51524), (171, 51776), (175, 51815), (177, 51839),

Gene: SJReid_40 Start: 17118, Stop: 17570, Start Num: 80
Candidate Starts for SJReid_40:
(Start: 77 @17115 has 2 MA's), (Start: 80 @17118 has 2 MA's), (91, 17160), (105, 17268), (109, 17286), (114, 17307), (125, 17382), (126, 17394), (130, 17427), (135, 17445), (137, 17457), (147, 17508), (155, 17550),

Gene: SJReid_221 Start: 140070, Stop: 140669, Start Num: 25
Candidate Starts for SJReid_221:
(Start: 25 @140070 has 9 MA's), (32, 140109), (134, 140589), (146, 140661),

Gene: SJReid_349 Start: 189957, Stop: 190409, Start Num: 80
Candidate Starts for SJReid_349:
(Start: 77 @189954 has 2 MA's), (Start: 80 @189957 has 2 MA's), (91, 189999), (105, 190107), (109, 190125), (114, 190146), (125, 190221), (126, 190233), (130, 190266), (135, 190284), (137, 190296), (147, 190347), (155, 190389),

Gene: Sabertooth_81 Start: 47904, Stop: 47434, Start Num: 60
Candidate Starts for Sabertooth_81:
(Start: 57 @47922 has 3 MA's), (Start: 60 @47904 has 158 MA's), (Start: 66 @47895 has 1 MA's), (Start: 69 @47892 has 23 MA's), (Start: 81 @47874 has 10 MA's), (91, 47835), (111, 47700), (127, 47583),

Gene: SamScheppers_80 Start: 51574, Stop: 52149, Start Num: 72
Candidate Starts for SamScheppers_80:
(14, 51367), (18, 51382), (26, 51418), (31, 51439), (36, 51466), (44, 51496), (Start: 64 @51556 has 43 MA's), (Start: 69 @51565 has 23 MA's), (Start: 72 @51574 has 12 MA's), (Start: 81 @51589 has 10 MA's), (97, 51658), (105, 51736), (111, 51763), (119, 51826), (135, 51904), (171, 52078), (173, 52093), (175, 52117),

Gene: SamuelLPlaqson_76 Start: 50854, Stop: 51315, Start Num: 67
Candidate Starts for SamuelLPlaqson_76:
(Start: 67 @50854 has 66 MA's), (Start: 81 @50881 has 10 MA's), (84, 50890), (90, 50917), (97, 50950), (103, 51013), (112, 51058), (135, 51196), (156, 51292), (157, 51295),

Gene: Scamp_81 Start: 47901, Stop: 47431, Start Num: 60
Candidate Starts for Scamp_81:
(Start: 57 @47919 has 3 MA's), (Start: 60 @47901 has 158 MA's), (Start: 66 @47892 has 1 MA's), (Start: 69 @47889 has 23 MA's), (Start: 81 @47871 has 10 MA's), (91, 47832), (111, 47697), (127, 47580),

Gene: Scarlett_79 Start: 50972, Stop: 51559, Start Num: 30
Candidate Starts for Scarlett_79:
(Start: 30 @50972 has 16 MA's), (42, 51029), (Start: 64 @51092 has 43 MA's), (Start: 81 @51125 has 10 MA's), (83, 51131), (97, 51194), (99, 51227), (105, 51272), (111, 51299), (119, 51362), (135, 51440), (157, 51539),

Gene: ScoobyDoobyDoo_227 Start: 131341, Stop: 131811, Start Num: 72
Candidate Starts for ScoobyDoobyDoo_227:
(Start: 72 @131341 has 12 MA's), (Start: 81 @131356 has 10 MA's), (105, 131503), (119, 131590), (135, 131692), (156, 131788),

Gene: SenorClean_82 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for SenorClean_82:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (111, 47695), (127, 47578),

Gene: SeresaTree_242 Start: 116481, Stop: 116939, Start Num: 79
Candidate Starts for SeresaTree_242:
(54, 116427), (Start: 79 @116481 has 19 MA's), (91, 116520), (108, 116649), (113, 116670), (139, 116829), (143, 116844), (160, 116925),

Gene: Severus_78 Start: 46672, Stop: 46208, Start Num: 60
Candidate Starts for Severus_78:
(Start: 60 @46672 has 158 MA's), (Start: 66 @46663 has 1 MA's), (Start: 81 @46648 has 10 MA's), (127, 46357),

Gene: Shadow1_83 Start: 51593, Stop: 52159, Start Num: 29
Candidate Starts for Shadow1_83:
(Start: 29 @51593 has 15 MA's), (34, 51623), (62, 51692), (Start: 69 @51704 has 23 MA's), (Start: 81 @51725 has 10 MA's), (90, 51761), (99, 51827), (105, 51872), (119, 51962), (135, 52040), (144, 52094), (157, 52139),

Gene: Shaka_79 Start: 47897, Stop: 47427, Start Num: 60
Candidate Starts for Shaka_79:
(Start: 57 @47915 has 3 MA's), (Start: 60 @47897 has 158 MA's), (Start: 66 @47888 has 1 MA's), (Start: 69 @47885 has 23 MA's), (Start: 81 @47867 has 10 MA's), (91, 47828), (105, 47720), (111, 47693), (119, 47630), (127, 47576),

Gene: Sham_228 Start: 116010, Stop: 116459, Start Num: 79
Candidate Starts for Sham_228:
(Start: 79 @116010 has 19 MA's), (90, 116046), (91, 116049), (108, 116172), (117, 116220), (131, 116313), (135, 116328), (143, 116367),

Gene: Shaobing_79 Start: 51876, Stop: 52439, Start Num: 29
Candidate Starts for Shaobing_79:
(Start: 29 @51876 has 15 MA's), (34, 51906), (Start: 69 @51984 has 23 MA's), (Start: 81 @52005 has 10 MA's), (83, 52011), (97, 52074), (99, 52107), (104, 52149), (105, 52152), (112, 52182), (119, 52242), (135, 52320), (156, 52416), (157, 52419),

Gene: Shapes_82 Start: 47658, Stop: 47191, Start Num: 60
Candidate Starts for Shapes_82:
(Start: 60 @47658 has 158 MA's), (Start: 66 @47649 has 1 MA's), (Start: 81 @47631 has 10 MA's), (105, 47484), (111, 47457), (121, 47382), (127, 47340),

Gene: ShayRa_85 Start: 45678, Stop: 45211, Start Num: 61
Candidate Starts for ShayRa_85:
(Start: 61 @45678 has 15 MA's), (Start: 81 @45666 has 10 MA's), (91, 45627), (94, 45612),

Gene: ShedlockHolmes_81 Start: 51455, Stop: 52018, Start Num: 30
Candidate Starts for ShedlockHolmes_81:
(Start: 30 @51455 has 16 MA's), (41, 51512), (52, 51536), (Start: 81 @51587 has 10 MA's), (83, 51593), (90, 51623), (97, 51656), (99, 51689), (105, 51734), (117, 51797), (119, 51824), (144, 51956),

Gene: Sheen_78 Start: 49775, Stop: 49302, Start Num: 59
Candidate Starts for Sheen_78:
(58, 49787), (Start: 59 @49775 has 8 MA's), (Start: 81 @49742 has 10 MA's), (90, 49706), (97, 49673), (105, 49595), (111, 49568), (119, 49505), (124, 49481), (156, 49325), (157, 49322),

Gene: SheldonCooper_81 Start: 48337, Stop: 47867, Start Num: 60
Candidate Starts for SheldonCooper_81:
(Start: 57 @48355 has 3 MA's), (Start: 60 @48337 has 158 MA's), (Start: 66 @48328 has 1 MA's), (Start: 69 @48325 has 23 MA's), (Start: 81 @48307 has 10 MA's), (91, 48268), (111, 48133), (127, 48016),

Gene: ShiaSurprise_77 Start: 50658, Stop: 51119, Start Num: 67
Candidate Starts for ShiaSurprise_77:
(Start: 67 @50658 has 66 MA's), (Start: 81 @50685 has 10 MA's), (84, 50694), (97, 50754), (103, 50817), (111, 50859), (112, 50862), (119, 50922), (135, 51000), (156, 51096), (157, 51099),

Gene: Shygu2_79 Start: 47843, Stop: 47373, Start Num: 60
Candidate Starts for Shygu2_79:
(Start: 57 @47861 has 3 MA's), (Start: 60 @47843 has 158 MA's), (Start: 66 @47834 has 1 MA's), (Start: 69 @47831 has 23 MA's), (Start: 81 @47813 has 10 MA's), (91, 47774), (111, 47639), (127, 47522),

Gene: SirPhilip_90 Start: 57157, Stop: 57723, Start Num: 29
Candidate Starts for SirPhilip_90:
(Start: 29 @57157 has 15 MA's), (41, 57214), (53, 57241), (Start: 81 @57289 has 10 MA's), (83, 57295), (97, 57358), (99, 57391), (105, 57436), (111, 57463), (119, 57526), (135, 57604),

Gene: Skadoosh_78 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for Skadoosh_78:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: Skipitt_80 Start: 47911, Stop: 47423, Start Num: 57
Candidate Starts for Skipitt_80:
(Start: 57 @47911 has 3 MA's), (Start: 60 @47893 has 158 MA's), (Start: 66 @47884 has 1 MA's), (Start: 69 @47881 has 23 MA's), (Start: 81 @47863 has 10 MA's), (91, 47824), (111, 47689), (127, 47572),

Gene: Slarp_81 Start: 51231, Stop: 51815, Start Num: 69
Candidate Starts for Slarp_81:
(14, 51042), (26, 51093), (36, 51147), (44, 51177), (Start: 64 @51222 has 43 MA's), (Start: 69 @51231 has 23 MA's), (Start: 72 @51240 has 12 MA's), (Start: 81 @51255 has 10 MA's), (97, 51324), (105, 51402), (106, 51405), (111, 51429), (115, 51450), (119, 51492), (135, 51570), (171, 51744), (175, 51783),

Gene: Slimphazie_78 Start: 50878, Stop: 51339, Start Num: 67
Candidate Starts for Slimphazie_78:

(Start: 67 @50878 has 66 MA's), (Start: 81 @50905 has 10 MA's), (84, 50914), (97, 50974), (103, 51037), (111, 51079), (112, 51082), (135, 51220), (156, 51316), (157, 51319),

Gene: SmellyB_84 Start: 46012, Stop: 45551, Start Num: 64
Candidate Starts for SmellyB_84:
(Start: 64 @46012 has 43 MA's), (Start: 81 @45985 has 10 MA's), (95, 45925), (105, 45832), (135, 45664),

Gene: SororFago_83 Start: 47758, Stop: 47291, Start Num: 69
Candidate Starts for SororFago_83:
(Start: 69 @47758 has 23 MA's), (Start: 81 @47746 has 10 MA's), (111, 47566), (115, 47545), (119, 47506), (136, 47416), (140, 47395),

Gene: SparkleGoddess_238 Start: 115994, Stop: 116452, Start Num: 79
Candidate Starts for SparkleGoddess_238:
(76, 115991), (Start: 79 @115994 has 19 MA's), (91, 116033), (103, 116132), (106, 116150), (113, 116183), (117, 116210), (135, 116318), (160, 116438), (161, 116441),

Gene: Sparxx_82 Start: 47895, Stop: 47425, Start Num: 60
Candidate Starts for Sparxx_82:
(Start: 57 @47913 has 3 MA's), (Start: 60 @47895 has 158 MA's), (Start: 66 @47886 has 1 MA's), (Start: 69 @47883 has 23 MA's), (Start: 81 @47865 has 10 MA's), (91, 47826), (105, 47718), (111, 47691), (119, 47628), (127, 47574),

Gene: Spino_80 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for Spino_80:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (111, 47695), (127, 47578),

Gene: Spock_76 Start: 50462, Stop: 50923, Start Num: 67
Candidate Starts for Spock_76:
(Start: 67 @50462 has 66 MA's), (Start: 81 @50489 has 10 MA's), (84, 50498), (97, 50558), (103, 50621), (111, 50663), (112, 50666), (119, 50726), (135, 50804), (156, 50900), (157, 50903),

Gene: Stasia_78 Start: 47849, Stop: 47385, Start Num: 60
Candidate Starts for Stasia_78:
(Start: 60 @47849 has 158 MA's), (Start: 66 @47840 has 1 MA's), (Start: 81 @47825 has 10 MA's), (97, 47756),

Gene: SteMason_81 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for SteMason_81:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: Stigma_236 Start: 115959, Stop: 116417, Start Num: 79
Candidate Starts for Stigma_236:
(76, 115956), (Start: 79 @115959 has 19 MA's), (91, 115998), (103, 116097), (106, 116115), (113, 116148), (117, 116175), (135, 116283), (160, 116403), (161, 116406),

Gene: Stink_81 Start: 48123, Stop: 47653, Start Num: 60
Candidate Starts for Stink_81:

(Start: 57 @48141 has 3 MA's), (Start: 60 @48123 has 158 MA's), (Start: 69 @48108 has 23 MA's), (Start: 73 @48096 has 12 MA's), (Start: 81 @48090 has 10 MA's), (94, 48036), (97, 48021), (111, 47916), (127, 47799),

Gene: Strobilo_83 Start: 53322, Stop: 53891, Start Num: 73
Candidate Starts for Strobilo_83:
(Start: 73 @53322 has 12 MA's), (Start: 81 @53331 has 10 MA's), (89, 53361), (99, 53433), (105, 53478), (111, 53505), (112, 53508), (119, 53568), (172, 53832), (174, 53847),

Gene: Sultana_81 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for Sultana_81:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: Sunflower1121_82 Start: 51137, Stop: 51703, Start Num: 29
Candidate Starts for Sunflower1121_82:
(Start: 29 @51137 has 15 MA's), (34, 51167), (62, 51236), (Start: 69 @51248 has 23 MA's), (Start: 81 @51269 has 10 MA's), (90, 51305), (99, 51371), (105, 51416), (119, 51506), (135, 51584), (144, 51638), (157, 51683),

Gene: Sunhee_85 Start: 46182, Stop: 45712, Start Num: 69
Candidate Starts for Sunhee_85:
(Start: 69 @46182 has 23 MA's), (Start: 81 @46170 has 10 MA's), (105, 46017), (111, 45990), (115, 45969), (136, 45840), (156, 45744),

Gene: SuperAwesome_84 Start: 46693, Stop: 46232, Start Num: 64
Candidate Starts for SuperAwesome_84:
(Start: 64 @46693 has 43 MA's), (Start: 81 @46666 has 10 MA's), (95, 46606), (105, 46513), (135, 46345),

Gene: Switzerland_85 Start: 46647, Stop: 46180, Start Num: 61
Candidate Starts for Switzerland_85:
(Start: 61 @46647 has 15 MA's), (Start: 81 @46635 has 10 MA's), (91, 46596), (94, 46581),

Gene: Syra333_82 Start: 51468, Stop: 52034, Start Num: 29
Candidate Starts for Syra333_82:
(Start: 29 @51468 has 15 MA's), (34, 51498), (Start: 69 @51579 has 23 MA's), (Start: 81 @51600 has 10 MA's), (90, 51636), (99, 51702), (105, 51747), (119, 51837), (135, 51915), (144, 51969), (157, 52014),

Gene: TBond007_75 Start: 50937, Stop: 51500, Start Num: 30
Candidate Starts for TBond007_75:
(Start: 30 @50937 has 16 MA's), (41, 50994), (52, 51018), (Start: 81 @51069 has 10 MA's), (83, 51075), (90, 51105), (97, 51138), (99, 51171), (105, 51216), (117, 51279), (119, 51306), (144, 51438),

Gene: TClif_92 Start: 57429, Stop: 58010, Start Num: 73
Candidate Starts for TClif_92:
(Start: 73 @57429 has 12 MA's), (Start: 81 @57441 has 10 MA's), (83, 57447), (105, 57588), (111, 57615), (119, 57678), (150, 57834),

Gene: TM4_80 Start: 47753, Stop: 48331, Start Num: 73
Candidate Starts for TM4_80:

(Start: 73 @47753 has 12 MA's), (Start: 81 @47765 has 10 MA's), (105, 47912), (111, 47939), (112, 47942), (119, 48002), (167, 48245), (172, 48272), (174, 48287),

Gene: Tachez_76 Start: 50306, Stop: 50767, Start Num: 67
Candidate Starts for Tachez_76:
(Start: 67 @50306 has 66 MA's), (Start: 81 @50333 has 10 MA's), (84, 50342), (97, 50402), (103, 50465), (111, 50507), (112, 50510), (119, 50570), (135, 50648), (156, 50744), (157, 50747),

Gene: Talia1610_215 Start: 146141, Stop: 146809, Start Num: 25
Candidate Starts for Talia1610_215:
(Start: 6 @146063 has 1 MA's), (Start: 25 @146141 has 9 MA's), (32, 146183), (39, 146213), (48, 146246), (129, 146636), (133, 146663), (154, 146774),

Gene: Taquarus_80 Start: 47905, Stop: 47432, Start Num: 60
Candidate Starts for Taquarus_80:
(Start: 57 @47923 has 3 MA's), (Start: 60 @47905 has 158 MA's), (82, 47872), (91, 47833), (94, 47818), (99, 47770), (111, 47698), (127, 47581),

Gene: Taquito_80 Start: 51265, Stop: 51849, Start Num: 69
Candidate Starts for Taquito_80:
(14, 51076), (26, 51127), (36, 51181), (44, 51211), (Start: 64 @51256 has 43 MA's), (Start: 69 @51265 has 23 MA's), (Start: 72 @51274 has 12 MA's), (Start: 81 @51289 has 10 MA's), (97, 51358), (105, 51436), (106, 51439), (111, 51463), (115, 51484), (119, 51526), (135, 51604), (171, 51778), (175, 51817),

Gene: Temprado_87 Start: 46485, Stop: 46024, Start Num: 64
Candidate Starts for Temprado_87:
(Start: 64 @46485 has 43 MA's), (Start: 81 @46458 has 10 MA's), (95, 46398), (105, 46305), (124, 46191),

Gene: Thanksgivukkah_80 Start: 47897, Stop: 47427, Start Num: 60
Candidate Starts for Thanksgivukkah_80:
(5, 48128), (Start: 57 @47915 has 3 MA's), (Start: 60 @47897 has 158 MA's), (Start: 66 @47888 has 1 MA's), (Start: 69 @47885 has 23 MA's), (Start: 81 @47867 has 10 MA's), (91, 47828), (111, 47693), (127, 47576),

Gene: Tierra_81 Start: 51365, Stop: 51937, Start Num: 69
Candidate Starts for Tierra_81:
(Start: 69 @51365 has 23 MA's), (Start: 81 @51386 has 10 MA's), (97, 51455), (99, 51488), (101, 51509), (105, 51533), (112, 51563), (119, 51623), (135, 51701), (144, 51755), (150, 51779), (164, 51830), (176, 51917),

Gene: Tigress9_83 Start: 51780, Stop: 52346, Start Num: 29
Candidate Starts for Tigress9_83:
(Start: 29 @51780 has 15 MA's), (34, 51810), (Start: 69 @51891 has 23 MA's), (Start: 81 @51912 has 10 MA's), (99, 52014), (105, 52059), (119, 52149), (135, 52227), (144, 52281), (157, 52326),

Gene: Timshel_78 Start: 49748, Stop: 49266, Start Num: 59
Candidate Starts for Timshel_78:
(9, 49943), (16, 49922), (Start: 57 @49763 has 3 MA's), (Start: 59 @49748 has 8 MA's), (Start: 64 @49739 has 43 MA's), (Start: 66 @49736 has 1 MA's), (Start: 72 @49721 has 12 MA's), (Start: 73 @49718 has 12 MA's), (Start: 78 @49709 has 2 MA's), (Start: 81 @49706 has 10 MA's), (90, 49670), (117, 49493), (118, 49484), (144, 49334), (145, 49331),

Gene: TinaFeyge_79 Start: 47894, Stop: 47424, Start Num: 60
Candidate Starts for TinaFeyge_79:
(Start: 57 @47912 has 3 MA's), (Start: 60 @47894 has 158 MA's), (Start: 66 @47885 has 1 MA's), (Start: 69 @47882 has 23 MA's), (Start: 81 @47864 has 10 MA's), (91, 47825), (105, 47717), (111, 47690), (119, 47627), (127, 47573),

Gene: TingHuaYa_80 Start: 51141, Stop: 51602, Start Num: 67
Candidate Starts for TingHuaYa_80:
(Start: 67 @51141 has 66 MA's), (71, 51147), (Start: 81 @51168 has 10 MA's), (84, 51177), (97, 51237), (104, 51312), (111, 51342), (112, 51345), (119, 51405), (135, 51483), (157, 51582),

Gene: TiniBug_76 Start: 50853, Stop: 51314, Start Num: 67
Candidate Starts for TiniBug_76:
(Start: 67 @50853 has 66 MA's), (Start: 81 @50880 has 10 MA's), (84, 50889), (90, 50916), (97, 50949), (103, 51012), (112, 51057), (135, 51195), (156, 51291), (157, 51294),

Gene: Tinybot_80 Start: 47926, Stop: 47456, Start Num: 60
Candidate Starts for Tinybot_80:
(Start: 57 @47944 has 3 MA's), (Start: 60 @47926 has 158 MA's), (Start: 66 @47917 has 1 MA's), (Start: 69 @47914 has 23 MA's), (Start: 81 @47896 has 10 MA's), (91, 47857), (111, 47722), (127, 47605),

Gene: TiroTheta9_80 Start: 47893, Stop: 47423, Start Num: 60
Candidate Starts for TiroTheta9_80:
(Start: 57 @47911 has 3 MA's), (Start: 60 @47893 has 158 MA's), (Start: 66 @47884 has 1 MA's), (Start: 69 @47881 has 23 MA's), (Start: 81 @47863 has 10 MA's), (91, 47824), (105, 47716), (111, 47689), (119, 47626), (127, 47572),

Gene: ToneTone_83 Start: 46045, Stop: 45584, Start Num: 64
Candidate Starts for ToneTone_83:
(Start: 64 @46045 has 43 MA's), (Start: 81 @46018 has 10 MA's), (95, 45958), (105, 45865), (124, 45751),

Gene: Topanga_69 Start: 44300, Stop: 43836, Start Num: 60
Candidate Starts for Topanga_69:
(Start: 60 @44300 has 158 MA's), (Start: 81 @44276 has 10 MA's), (88, 44252),

Gene: Topper_76 Start: 50461, Stop: 50922, Start Num: 67
Candidate Starts for Topper_76:
(Start: 67 @50461 has 66 MA's), (Start: 81 @50488 has 10 MA's), (84, 50497), (97, 50557), (103, 50620), (111, 50662), (112, 50665), (119, 50725), (135, 50803), (156, 50899), (157, 50902),

Gene: Toro_79 Start: 50438, Stop: 49965, Start Num: 59
Candidate Starts for Toro_79:
(58, 50450), (Start: 59 @50438 has 8 MA's), (Start: 81 @50405 has 10 MA's), (90, 50369), (97, 50336), (105, 50258), (111, 50231), (119, 50168), (124, 50144), (156, 49988), (157, 49985),

Gene: TreyKay_79 Start: 50926, Stop: 51387, Start Num: 67
Candidate Starts for TreyKay_79:
(Start: 67 @50926 has 66 MA's), (Start: 81 @50953 has 10 MA's), (84, 50962), (97, 51022), (103, 51085), (112, 51130), (135, 51268), (156, 51364), (157, 51367),

Gene: TribleTrouble_78 Start: 51156, Stop: 51722, Start Num: 30
Candidate Starts for TribleTrouble_78:
(Start: 19 @51108 has 1 MA's), (20, 51111), (Start: 30 @51156 has 16 MA's), (Start: 81 @51291 has 10 MA's), (83, 51297), (97, 51360), (99, 51393), (101, 51414), (104, 51435), (105, 51438), (119, 51528), (136, 51612), (144, 51660),

Gene: Tristan_80 Start: 48549, Stop: 48079, Start Num: 60
Candidate Starts for Tristan_80:
(Start: 60 @48549 has 158 MA's), (Start: 66 @48540 has 1 MA's), (Start: 81 @48525 has 10 MA's), (90, 48489), (111, 48345), (119, 48285),

Gene: TroyPia_82 Start: 47934, Stop: 47464, Start Num: 60
Candidate Starts for TroyPia_82:
(Start: 57 @47952 has 3 MA's), (Start: 60 @47934 has 158 MA's), (Start: 66 @47925 has 1 MA's), (Start: 69 @47922 has 23 MA's), (Start: 81 @47904 has 10 MA's), (91, 47865), (111, 47730), (127, 47613),

Gene: TruffulaTree_78 Start: 50874, Stop: 51335, Start Num: 67
Candidate Starts for TruffulaTree_78:
(Start: 67 @50874 has 66 MA's), (Start: 81 @50901 has 10 MA's), (84, 50910), (97, 50970), (103, 51033), (111, 51075), (112, 51078), (135, 51216), (156, 51312), (157, 51315),

Gene: Tucker_86 Start: 46248, Stop: 45787, Start Num: 64
Candidate Starts for Tucker_86:
(Start: 64 @46248 has 43 MA's), (Start: 81 @46221 has 10 MA's), (95, 46161), (105, 46068), (124, 45954),

Gene: Twister_80 Start: 47500, Stop: 47036, Start Num: 60
Candidate Starts for Twister_80:
(Start: 60 @47500 has 158 MA's), (Start: 69 @47488 has 23 MA's), (Start: 81 @47476 has 10 MA's), (105, 47329), (111, 47302), (127, 47185),

Gene: Twitch_76 Start: 50463, Stop: 50924, Start Num: 67
Candidate Starts for Twitch_76:
(Start: 67 @50463 has 66 MA's), (Start: 81 @50490 has 10 MA's), (84, 50499), (97, 50559), (103, 50622), (111, 50664), (112, 50667), (119, 50727), (135, 50805), (156, 50901), (157, 50904),

Gene: TygerBlood_81 Start: 47899, Stop: 47429, Start Num: 60
Candidate Starts for TygerBlood_81:
(Start: 57 @47917 has 3 MA's), (Start: 60 @47899 has 158 MA's), (Start: 66 @47890 has 1 MA's), (Start: 69 @47887 has 23 MA's), (Start: 81 @47869 has 10 MA's), (91, 47830), (111, 47695), (127, 47578),

Gene: Ulysses_80 Start: 47582, Stop: 47112, Start Num: 60
Candidate Starts for Ulysses_80:
(Start: 57 @47600 has 3 MA's), (Start: 60 @47582 has 158 MA's), (Start: 66 @47573 has 1 MA's), (Start: 69 @47570 has 23 MA's), (Start: 81 @47552 has 10 MA's), (91, 47513), (111, 47378), (127, 47261),

Gene: Unicorn_81 Start: 51079, Stop: 51651, Start Num: 69
Candidate Starts for Unicorn_81:
(Start: 69 @51079 has 23 MA's), (Start: 81 @51100 has 10 MA's), (97, 51169), (99, 51202), (101, 51223), (105, 51247), (112, 51277), (119, 51337), (135, 51415), (144, 51469), (150, 51493), (176,

51631),

Gene: Urkel_76 Start: 50854, Stop: 51315, Start Num: 67
Candidate Starts for Urkel_76:
(Start: 67 @50854 has 66 MA's), (Start: 81 @50881 has 10 MA's), (84, 50890), (90, 50917), (97, 50950), (103, 51013), (112, 51058), (135, 51196), (156, 51292), (157, 51295),

Gene: Validus_82 Start: 52159, Stop: 52722, Start Num: 29
Candidate Starts for Validus_82:
(Start: 29 @52159 has 15 MA's), (34, 52186), (62, 52255), (Start: 69 @52267 has 23 MA's), (Start: 81 @52288 has 10 MA's), (83, 52294), (97, 52357), (99, 52390), (105, 52435), (112, 52465), (119, 52525), (135, 52603), (156, 52699), (157, 52702),

Gene: Veliki_77 Start: 50414, Stop: 50875, Start Num: 67
Candidate Starts for Veliki_77:
(Start: 67 @50414 has 66 MA's), (Start: 81 @50441 has 10 MA's), (84, 50450), (97, 50510), (103, 50573), (111, 50615), (112, 50618), (135, 50756), (156, 50852), (157, 50855),

Gene: VohminGhazi_84 Start: 46013, Stop: 45552, Start Num: 64
Candidate Starts for VohminGhazi_84:
(Start: 64 @46013 has 43 MA's), (Start: 81 @45986 has 10 MA's), (95, 45926), (105, 45833), (135, 45665),

Gene: Waits_87 Start: 47034, Stop: 46567, Start Num: 61
Candidate Starts for Waits_87:
(Start: 61 @47034 has 15 MA's), (Start: 81 @47022 has 10 MA's), (91, 46983), (94, 46968),

Gene: Wakanda_212 Start: 105499, Stop: 105951, Start Num: 81
Candidate Starts for Wakanda_212:
(Start: 81 @105499 has 10 MA's), (88, 105523), (91, 105538), (92, 105541), (103, 105631), (106, 105649), (113, 105682), (149, 105883),

Gene: WalterMcMickey_79 Start: 47500, Stop: 47036, Start Num: 60
Candidate Starts for WalterMcMickey_79:
(Start: 60 @47500 has 158 MA's), (Start: 69 @47488 has 23 MA's), (Start: 81 @47476 has 10 MA's), (105, 47329), (111, 47302), (127, 47185),

Gene: Wander_81 Start: 47893, Stop: 47423, Start Num: 60
Candidate Starts for Wander_81:
(Start: 57 @47911 has 3 MA's), (Start: 60 @47893 has 158 MA's), (Start: 66 @47884 has 1 MA's), (Start: 69 @47881 has 23 MA's), (Start: 81 @47863 has 10 MA's), (91, 47824), (111, 47689), (127, 47572),

Gene: Westy_239 Start: 116391, Stop: 116849, Start Num: 79
Candidate Starts for Westy_239:
(76, 116388), (Start: 79 @116391 has 19 MA's), (91, 116430), (103, 116529), (106, 116547), (113, 116580), (117, 116607), (131, 116700), (135, 116715), (160, 116835), (161, 116838),

Gene: Wiks_85 Start: 46116, Stop: 45655, Start Num: 64
Candidate Starts for Wiks_85:
(Start: 64 @46116 has 43 MA's), (Start: 81 @46089 has 10 MA's), (95, 46029), (105, 45936), (124, 45822),

Gene: Wilbur_81 Start: 47896, Stop: 47426, Start Num: 60
Candidate Starts for Wilbur_81:
(Start: 57 @47914 has 3 MA's), (Start: 60 @47896 has 158 MA's), (Start: 66 @47887 has 1 MA's), (Start: 69 @47884 has 23 MA's), (Start: 81 @47866 has 10 MA's), (91, 47827), (111, 47692), (127, 47575),

Gene: Wile_76 Start: 47547, Stop: 47080, Start Num: 60
Candidate Starts for Wile_76:
(Start: 57 @47565 has 3 MA's), (Start: 60 @47547 has 158 MA's), (Start: 66 @47538 has 1 MA's), (Start: 69 @47535 has 23 MA's), (Start: 81 @47517 has 10 MA's), (91, 47478), (111, 47343), (119, 47280), (127, 47226),

Gene: Wintermute_81 Start: 51441, Stop: 52025, Start Num: 69
Candidate Starts for Wintermute_81:
(14, 51252), (26, 51303), (36, 51357), (44, 51387), (Start: 64 @51432 has 43 MA's), (Start: 69 @51441 has 23 MA's), (Start: 72 @51450 has 12 MA's), (Start: 81 @51465 has 10 MA's), (97, 51534), (103, 51597), (105, 51612), (111, 51639), (119, 51702), (171, 51954), (175, 51993),

Gene: Wizard007_77 Start: 47273, Stop: 46806, Start Num: 60
Candidate Starts for Wizard007_77:
(Start: 57 @47291 has 3 MA's), (Start: 60 @47273 has 158 MA's), (Start: 66 @47264 has 1 MA's), (Start: 69 @47261 has 23 MA's), (Start: 81 @47243 has 10 MA's), (91, 47204), (111, 47069), (119, 47006), (127, 46952),

Gene: WunderPhul_86 Start: 46114, Stop: 45653, Start Num: 64
Candidate Starts for WunderPhul_86:
(Start: 64 @46114 has 43 MA's), (Start: 81 @46087 has 10 MA's), (95, 46027), (105, 45934), (124, 45820),

Gene: Xena_77 Start: 47718, Stop: 47248, Start Num: 60
Candidate Starts for Xena_77:
(Start: 57 @47736 has 3 MA's), (Start: 60 @47718 has 158 MA's), (Start: 66 @47709 has 1 MA's), (Start: 69 @47706 has 23 MA's), (Start: 81 @47688 has 10 MA's), (91, 47649), (111, 47514), (127, 47397),

Gene: Ximenita_84 Start: 51791, Stop: 52357, Start Num: 29
Candidate Starts for Ximenita_84:
(Start: 29 @51791 has 15 MA's), (34, 51821), (Start: 69 @51902 has 23 MA's), (Start: 81 @51923 has 10 MA's), (90, 51959), (99, 52025), (105, 52070), (119, 52160), (135, 52238), (144, 52292), (157, 52337),

Gene: Y10_78 Start: 51399, Stop: 51974, Start Num: 72
Candidate Starts for Y10_78:
(14, 51201), (26, 51252), (36, 51306), (44, 51336), (Start: 64 @51381 has 43 MA's), (Start: 69 @51390 has 23 MA's), (Start: 72 @51399 has 12 MA's), (Start: 81 @51414 has 10 MA's), (97, 51483), (105, 51561), (111, 51588), (115, 51609), (119, 51651), (171, 51903), (175, 51942), (177, 51966),

Gene: Y2_78 Start: 51399, Stop: 51974, Start Num: 72
Candidate Starts for Y2_78:
(14, 51201), (26, 51252), (36, 51306), (44, 51336), (Start: 64 @51381 has 43 MA's), (Start: 69 @51390 has 23 MA's), (Start: 72 @51399 has 12 MA's), (Start: 81 @51414 has 10 MA's), (97, 51483), (105, 51561), (111, 51588), (115, 51609), (119, 51651), (171, 51903), (175, 51942), (177, 51966),

Gene: Yakult_36 Start: 26432, Stop: 25950, Start Num: 69
Candidate Starts for Yakult_36:
(17, 26600), (22, 26579), (Start: 28 @26549 has 9 MA's), (Start: 69 @26432 has 23 MA's), (Start: 81 @26408 has 10 MA's), (105, 26261), (107, 26255), (112, 26231), (121, 26162),

Gene: YasnayaPolyana_80 Start: 51374, Stop: 51949, Start Num: 72
Candidate Starts for YasnayaPolyana_80:
(14, 51176), (26, 51227), (36, 51281), (44, 51311), (Start: 64 @51356 has 43 MA's), (Start: 69 @51365 has 23 MA's), (Start: 72 @51374 has 12 MA's), (Start: 81 @51389 has 10 MA's), (97, 51458), (105, 51536), (111, 51563), (119, 51626), (135, 51704), (171, 51878), (175, 51917),

Gene: YoSam321_81 Start: 47894, Stop: 47424, Start Num: 60
Candidate Starts for YoSam321_81:
(Start: 57 @47912 has 3 MA's), (Start: 60 @47894 has 158 MA's), (Start: 66 @47885 has 1 MA's), (Start: 69 @47882 has 23 MA's), (Start: 81 @47864 has 10 MA's), (91, 47825), (111, 47690), (127, 47573),

Gene: Yokurt_85 Start: 46116, Stop: 45655, Start Num: 64
Candidate Starts for Yokurt_85:
(Start: 64 @46116 has 43 MA's), (Start: 81 @46089 has 10 MA's), (95, 46029), (105, 45936), (124, 45822),

Gene: Yuna_80 Start: 52283, Stop: 52852, Start Num: 29
Candidate Starts for Yuna_80:
(Start: 29 @52283 has 15 MA's), (34, 52313), (41, 52340), (42, 52343), (Start: 81 @52418 has 10 MA's), (83, 52424), (88, 52442), (97, 52487), (99, 52520), (105, 52565), (111, 52592), (119, 52655), (135, 52733), (144, 52787),

Gene: Yunkel11_82 Start: 51044, Stop: 51505, Start Num: 67
Candidate Starts for Yunkel11_82:
(Start: 67 @51044 has 66 MA's), (Start: 81 @51071 has 10 MA's), (84, 51080), (97, 51140), (99, 51173), (104, 51215), (111, 51245), (112, 51248), (119, 51308), (135, 51386), (156, 51482), (157, 51485),

Gene: Zabiza_72 Start: 46811, Stop: 47272, Start Num: 67
Candidate Starts for Zabiza_72:
(Start: 67 @46811 has 66 MA's), (Start: 81 @46838 has 10 MA's), (84, 46847), (97, 46907), (103, 46970), (111, 47012), (112, 47015), (119, 47075), (135, 47153), (156, 47249), (157, 47252),

Gene: Zaka_86 Start: 46116, Stop: 45655, Start Num: 64
Candidate Starts for Zaka_86:
(Start: 64 @46116 has 43 MA's), (Start: 81 @46089 has 10 MA's), (95, 46029), (105, 45936), (124, 45822),

Gene: Zavala_79 Start: 50952, Stop: 51413, Start Num: 67
Candidate Starts for Zavala_79:
(Start: 67 @50952 has 66 MA's), (Start: 73 @50967 has 12 MA's), (Start: 81 @50979 has 10 MA's), (84, 50988), (97, 51048), (103, 51111), (111, 51153), (112, 51156), (135, 51294), (156, 51390), (157, 51393),

Gene: ZoeJ_81 Start: 52756, Stop: 53337, Start Num: 73
Candidate Starts for ZoeJ_81:

(Start: 73 @52756 has 12 MA's), (Start: 81 @52768 has 10 MA's), (105, 52915), (111, 52942), (112, 52945), (119, 53005), (166, 53221), (167, 53248), (172, 53278), (174, 53293),

Gene: Zulu_87 Start: 46494, Stop: 46033, Start Num: 64
Candidate Starts for Zulu_87:
(Start: 64 @46494 has 43 MA's), (Start: 81 @46467 has 10 MA's), (95, 46407), (105, 46314), (124, 46200),