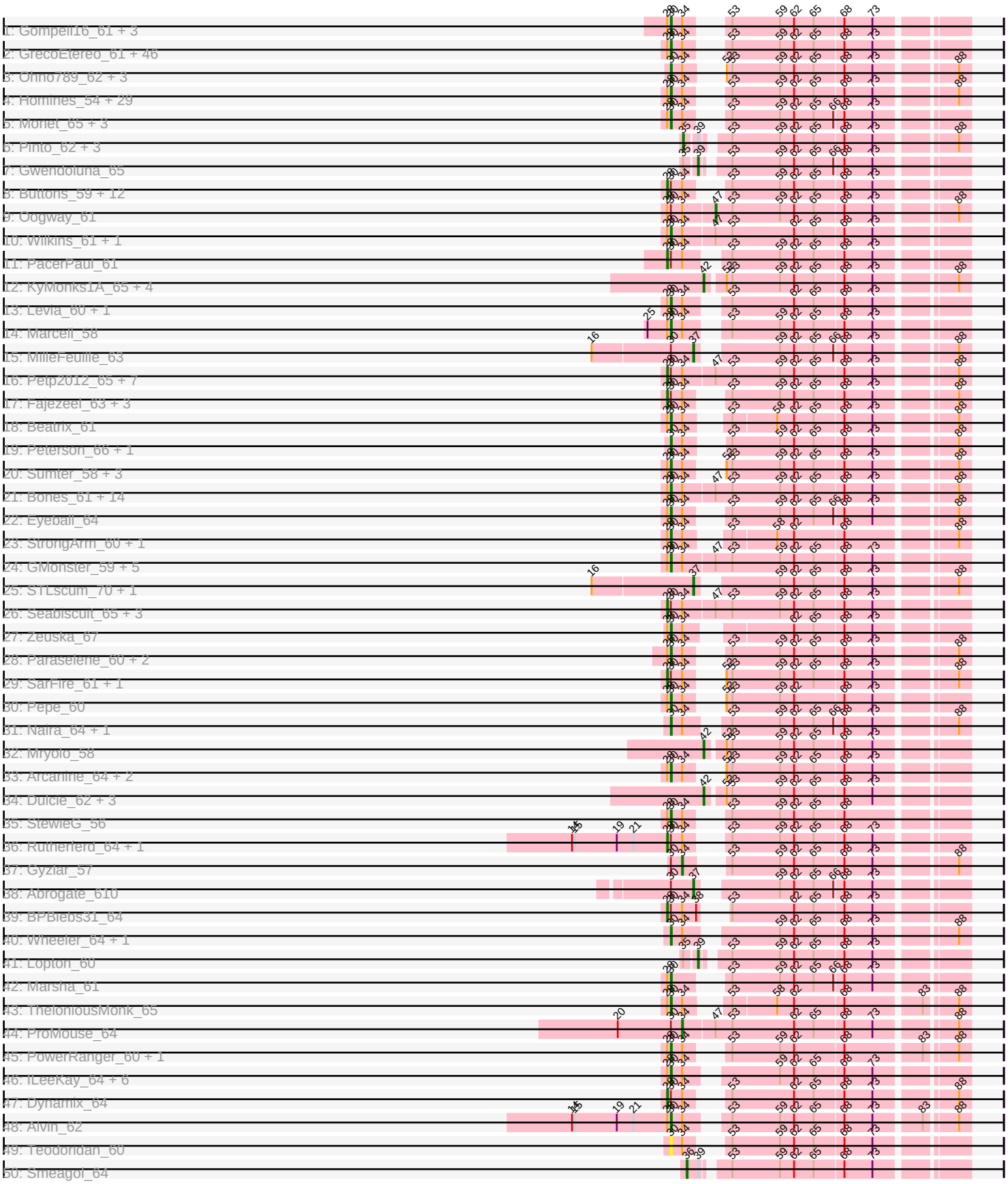
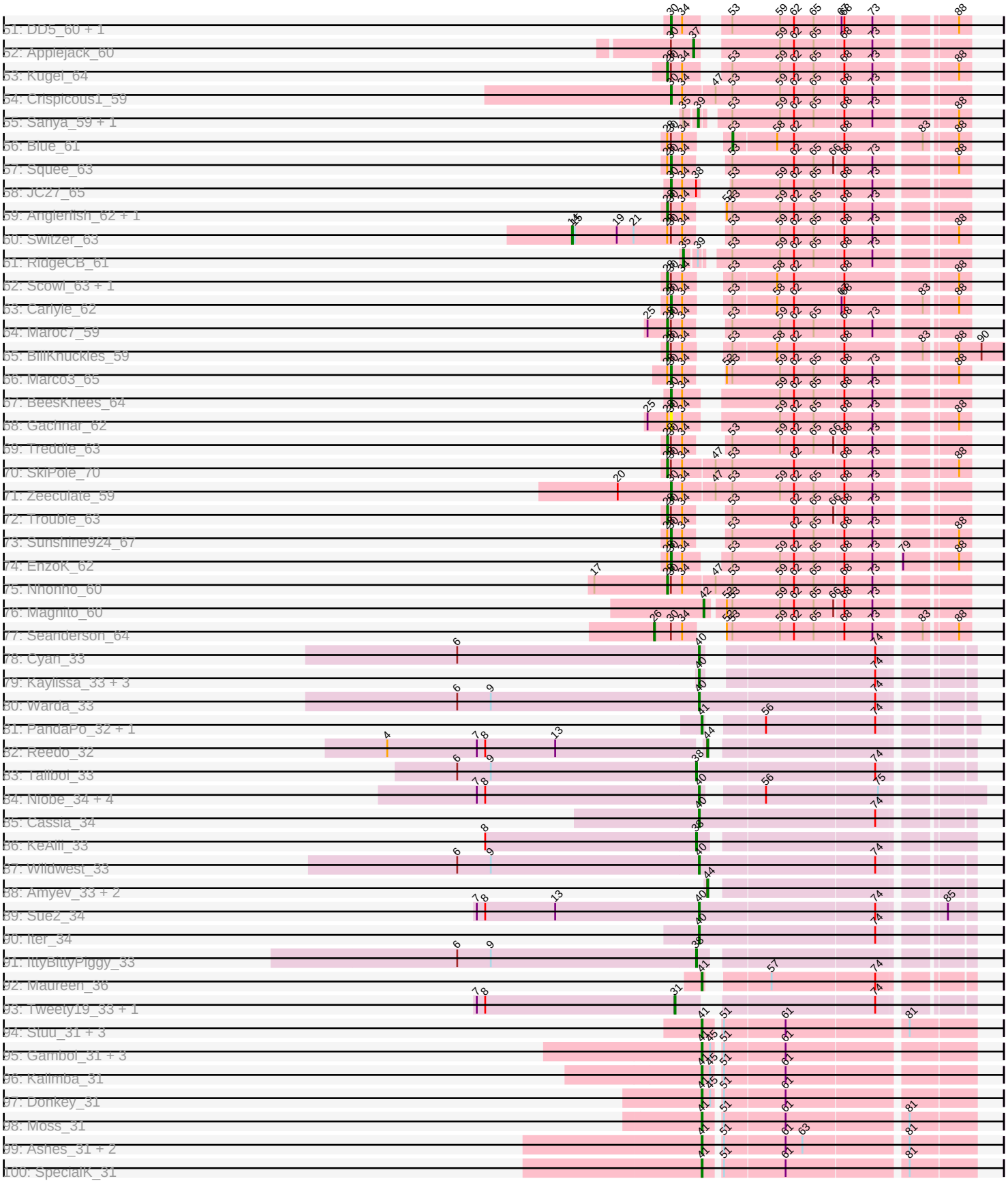
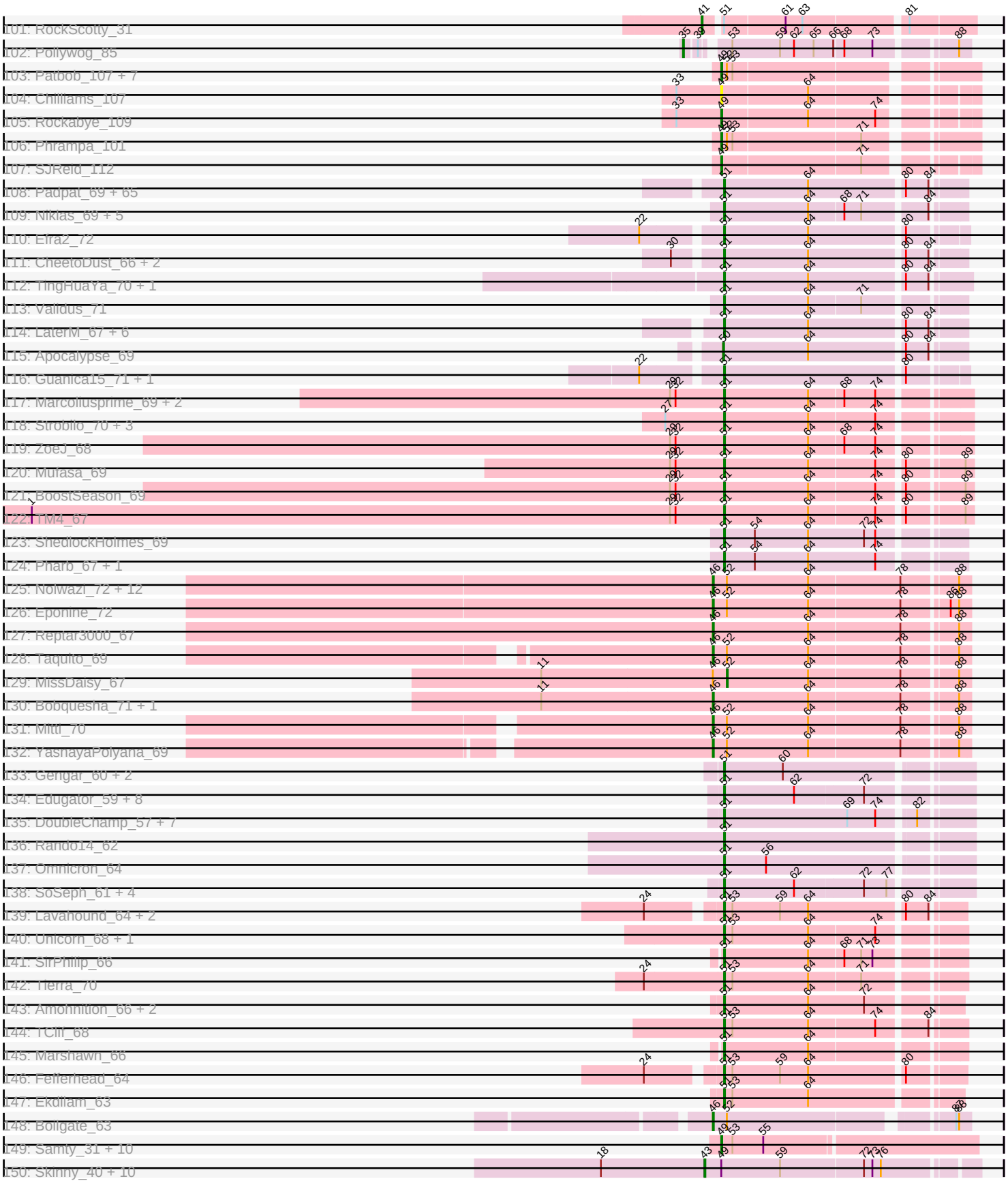
Pham 347067


1: Gompeii16_61 + 3
2: GrecoEtereo_61 + 46
3: Ohno789_62 + 3
4: Homines_54 + 29
5: Monet_65 + 3
6: Pinto_62 + 3
7: Gwendoluna_65
8: Buttons_59 + 12
9: Oogway_61
10: Wilkins_61 + 1
11: PacerPaul_61
12: KyMonks1A_65 + 4
13: Levia_60 + 1
14: Marcell_58
15: MilleFeuille_63
16: Petp2012_65 + 7
17: Fajezeel_63 + 3
18: Beatrix_61
19: Peterson_66 + 1
20: Sumter_58 + 3
21: Bones_61 + 14
22: Eyeball_64
23: StrongArm_60 + 1
24: GMonster_59 + 5
25: STLscum_70 + 1
26: Seabiscuit_65 + 3
27: Zeuska_67
28: Paraselene_60 + 2
29: SarFire_61 + 1
30: Pepe_60
31: Naira_64 + 1
32: Mryolo_58
33: Arcanine_64 + 2
34: Dulcie_62 + 3
35: StewieG_56
36: Rutherford_64 + 1
37: Gyziar_57
38: Abrogate_610
39: BPBlebs31_64
40: Wheeler_64 + 1
41: Lopton_60
42: Marsha_61
43: TheloniousMonk_65
44: ProMouse_64
45: PowerRanger_60 + 1
46: TLeeKay_64 + 6
47: Dynamix_64
48: Alvin_62
49: Teodoridan_60
50: Smeagol_64

Pham 347067


51: DD5_60 + 1
52: Applejack_60
53: Kugel_64
54: Crispicous1_59
55: Sanya_59 + 1
56: Blue_61
57: Squee_63
58: JC27_65
59: Anglerfish_62 + 1
60: Switzer_63
61: RidgeCB_61
62: Scowl_63 + 1
63: Carlyle_62
64: Maroc7_59
65: BillKnuckles_59
66: Marco3_65
67: BeesKnees_64
68: Gachnar_62
69: Treddie_63
70: SkiPole_70
71: Zeeculate_59
72: Trouble_63
73: Sunshine924_67
74: EnzoK_62
75: Nhonho_60
76: Magnito_60
77: Seanderson_64
78: Cyan_33
79: Kayllssa_33 + 3
80: Warda_33
81: PandaPo_32 + 1
82: Reedo_32
83: Tallbol_33
84: Niobe_34 + 4
85: Cassia_34
86: KeAm_33
87: Wildwest_33
88: Amyev_33 + 2
89: Sue2_34
90: Iter_34
91: ItsyBitsyPiggy_33
92: Maureen_36
93: Tweety19_33 + 1
94: Stuu_31 + 3
95: Gambol_31 + 3
96: Kalimba_31
97: Donkey_31
98: Moss_31
99: Ashes_31 + 2
100: SpecialK_31

Pham 347067


101: RockScotty_31
102: Pollywog_85
103: Patbob_107 + 7
104: Chilliams_107
105: Rockabye_109
106: Phrampa_101
107: SJReid_112
108: Padpat_69 + 65
109: Niklas_69 + 5
110: Efra2_72
111: CheetoDust_66 + 2
112: YingHuaYa_70 + 1
113: Validus_71
114: LaterM_67 + 6
115: Apocalypse_69
116: Guanica15_71 + 1
117: Marcoliusprime_69 + 2
118: Strobilo_70 + 3
119: ZoeJ_68
120: Mufasa_69
121: BoostSeason_69
122: TM4_67
123: SherlockHolmes_69
124: Pharb_67 + 1
125: Nolwazi_72 + 12
126: Eponine_72
127: Reptar3000_67
128: Taquito_69
129: MissDaisy_67
130: Bobquesha_71 + 1
131: Mitti_70
132: YashayaPolyana_69
133: Gengar_60 + 2
134: Edugator_59 + 8
135: DoubleChamp_57 + 7
136: Rando14_62
137: Omnicron_64
138: SoSeph_61 + 4
139: Lavahound_64 + 2
140: Unicorn_68 + 1
141: SirPhilip_66
142: Tierra_70
143: Amonnition_66 + 2
144: TCM_68
145: Marshawn_66
146: Fellerhead_64
147: Ekdham_63
148: Bollgate_63
149: Samty_31 + 10
150: Skinny_40 + 10

Pham 347067


151: Auspice_39 + 4
152: Reindeer_39
153: Rey_44
154: GardenSalsa_44 + 1
155: Estes_45
156: GenevaB15_44 + 1
157: Nanosmile_44
158: EGUnicorn_48 + 16
159: Panchino_48 + 3
160: BabeRuth_56 + 14
161: Charlie_51 + 1
162: Impisi_56
163: Laure_112

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 347067 Report

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

Pham number 347067 has 539 members, 35 are drafts.

Phages represented in each track:
• Track 1 : Gompeii16_61, Bircsak_61, Agaliana_56, Francis47_60
• Track 2 : GrecoEtereo_61, Sagefire_64, Swole_63, Marge_59, Hami1_57, Phlippers_58, BarrowTuph_63, PSullivan_60, QTRlifeCrisis_62, Tote_58, A6_54, CartmannCramer_60, ConceptII_64, Gandalf20_64, Violet_60, Licorice_63, Smairt_64, Abbyshoes_63, BigPaolini_59, PascalRango_60, Dussy_62, Chanagan_56, CactusRose_62, Perseus_61, GroundGoblin_59, Aldrich_59, Mule_59, Nerujay_64, DirtDevil_60, JuliaChild_63, Doom_60, LilBib_62, Edtherson_61, Noxious_61, KikiBouba_61, CatBus_58, BaconJack_66, ChristmasHams_56, Ashballer_65, Hermia_60, BK1_54, Rajelicia_62, Blesser_58, Bigfoot_54, Norz_62, LunarLander_62, Ciao_60
• Track 3 : Ohno789_62, Dreamboat_63, PherrisBueller_61, Jasper_62
• Track 4 : Homines_54, Target_64, Froghopper_60, MaryBeth_60, Jerm2_64, Corvo_63, MetalQZJ_59, MrGordo_64, PinkPlastic_62, GageAP_63, Alsfro_68, Barriga_65, Solon_61, Petruchio_62, Niza_64, NEHalo_59, Burton_63, Hope4ever_63, Graduation_66, Ajay_62, Bxb1_56, Big3_63, Whitspit_58, Ichabod_66, Dexes_62, SpikeBT_60, Blackflame_58, Pelly_63, Jorgensen_65, AFIS_58
• Track 5 : Monet_65, Marchy_56, Payneful_60, Puppet_61
• Track 6 : Pinto_62, Rufus_63, Makemake_64, Atkinbua_64
• Track 7 : Gwendoluna_65
• Track 8 : Buttons_59, Pippin_62, Kenmech_65, HarryOW_60, KSSJEB_62, Pita2_63, Papez_64, Aeneas_65, PattyP_64, Fushigi_58, Fascinus_56, PhrostyMug_62, Espresso_59
• Track 9 : Oogway_61
• Track 10 : Wilkins_61, Topgun_60
• Track 11 : PacerPaul_61
• Track 12 : KyMonks1A_65, Tripl3t_65, Sorpresa_59, Sandaddy_58, Magnar_60
• Track 13 : Levia_60, PhineBark_62
• Track 14 : Marcell_58
• Track 15 : MilleFeuille_63
• Track 16 : Petp2012_65, Tasp14_66, MPlant7149_62, DreamCatcher_65, BluSpix_60, Rohr_64, Museum_64, Paphu_62
• Track 17 : Fajezeel_63, Acme_64, Greg_63, Lamina13_66
• Track 18 : Beatrix_61
• Track 19 : Peterson_66, Lesedi_58
• Track 20 : Sumter_58, Turj99_60, Thor_61, Pari_65

• Track 21 : Bones_61, HermioneGrange_64, SwissCheese_65, Moose_63, IgnatiusPatJac_62, Bruns_63, Forsytheast_63, BigMau_64, Kykar_63, Parliament_64, Adahisdi_62, Arlo_60, Cueylyss_62, U2_60, Bob3_63
• Track 22 : Eyeball_64
• Track 23 : StrongArm_60, Bexan_59
• Track 24 : GMonster_59, Briton15_66, Zephyr_63, McGuire_63, Molly_63, Killigrew_61
• Track 25 : STLscum_70, Ringer_62
• Track 26 : Seabiscuit_65, HanShotFirst_63, Sibs6_64, Watermelon_62
• Track 27 : Zeuska_67
• Track 28 : Paraselene_60, Iqorha_57, Inyanga_57
• Track 29 : SarFire_61, Bethlehem_61
• Track 30 : Pepe_60
• Track 31 : Naira_64, Fenn_64
• Track 32 : Mryolo_58
• Track 33 : Arcanine_64, Slagathor_64, TwoPeat_63
• Track 34 : Dulcie_62, DrFeelGood_58, Ruotula_64, Traft412_64
• Track 35 : StewieG_56
• Track 36 : Rutherferd_64, Rhynn_60
• Track 37 : Gyzlar_57
• Track 38 : Abrogate_610
• Track 39 : BPBiebs31_64
• Track 40 : Wheeler_64, Michley_65
• Track 41 : Lopton_60
• Track 42 : Marsha_61
• Track 43 : TheloniousMonk_65
• Track 44 : ProMouse_64
• Track 45 : PowerRanger_60, Euphoria_60
• Track 46 : ILeeKay_64, Bigchungi_61, ShortQueendom_56, McSinger_60, Kanely_63, Altman_64, Snazzy_60
• Track 47 : Dynamix_64
• Track 48 : Alvin_62
• Track 49 : Teodoridan_60
• Track 50 : Smeagol_64
• Track 51 : DD5_60, Lockley_59
• Track 52 : Applejack_60
• Track 53 : Kugel_64
• Track 54 : Crispicous1_59
• Track 55 : Sanya_59, Rubeus_60
• Track 56 : Blue_61
• Track 57 : Squee_63
• Track 58 : JC27_65
• Track 59 : Anglerfish_62, Manatee_62
• Track 60 : Switzer_63
• Track 61 : RidgeCB_61
• Track 62 : Scowl_63, KBG_63
• Track 63 : Carlyle_62
• Track 64 : Maroc7_59
• Track 65 : BillKnuckles_59
• Track 66 : Marco3_65
• Track 67 : BeesKnees_64
• Track 68 : Gachnar_62
• Track 69 : Treddle_63

• Track 70 : SkiPole_70
• Track 71 : Zeeculate_59
• Track 72 : Trouble_63
• Track 73 : Sunshine924_67
• Track 74 : EnzoK_62
• Track 75 : Nhonho_60
• Track 76 : Magnito_60
• Track 77 : Seanderson_64
• Track 78 : Cyan_33
• Track 79 : Kaylissa_33, Pumpkins_33, JuneStar_33, Lizalica_32
• Track 80 : Warda_33
• Track 81 : PandaPo_32, MissSwiss_32
• Track 82 : Reedo_32
• Track 83 : Tallboi_33
• Track 84 : Niobe_34, Skelbel_35, Jstan_36, Eraser_34, Asa16_34
• Track 85 : Cassia_34
• Track 86 : KeAlii_33
• Track 87 : Wildwest_33
• Track 88 : Amyev_33, Tian_33, Pixelle_33
• Track 89 : Sue2_34
• Track 90 : Iter_34
• Track 91 : IttyBittyPiggy_33
• Track 92 : Maureen_36
• Track 93 : Tweety19_33, Snek_33
• Track 94 : Stuu_31, Giorgio_31, Mysterium_31, Gumpizza_31
• Track 95 : Gambol_31, Sooty_31, Cappuccino_31, Sabourin_31
• Track 96 : Kalimba_31
• Track 97 : Donkey_31
• Track 98 : Moss_31
• Track 99 : Ashes_31, Halsey_31, Beaupre_31
• Track 100 : SpecialK_31
• Track 101 : RockScotty_31
• Track 102 : Pollywog_85
• Track 103 : Patbob_107, Talia1610_108, FloraSnap32_105, Racecar_109, Bloom_112, Mimi_108, GoldenEssence_94, FrostedClock_108
• Track 104 : Chilliams_107
• Track 105 : Rockabye_109
• Track 106 : Phrampa_101
• Track 107 : SJReid_112
• Track 108 : Padpat_69, Peel_66, Blizzard_66, Zabiza_61, Tachez_66, Ramen_67, Homura_66, Pokerus_66, Clipper_70, Rosmarinus_66, Lunahalos_66, Joy99_66, Zavala_69, Belladonna_66, Padfoot_66, Angelica_66, Jayhawk_68, Deby_67, CallaLilly_66, Jeckyll_66, HedwigODU_66, Geraldini_69, Veliki_68, BGlluviae_66, Inky_66, Lokum_67, Llorens_66, Rapunzel97_68, CaseJules_68, YoureAdopted_66, Boiiii_66, Piatt_66, Beezoo_68, Mynx_68, Asayake_66, Ganymede_66, MacKat_62, AlishaPH_66, BEEST_66, Pisa4_60, Twitch_66, Jarvi_66, Emerson_68, Adephagia_66, Kheparia_66, BarrelRoll_67, TruffulaTree_67, Pisa1_66, Bella96_67, ActinUp_66, ShiaSurprise_67, CREW_66, Dalmuri_66, DartGoblin_68, JAWS_67, Atiba_67, Hyperbowlee_66, Spock_66, QuincyRose_64, Durfee_66, Sulley_66, Slimphazie_67, Adonis_66, Topper_66, Capricorn_66, MeaningOfLife_67
• Track 109 : Niklas_69, Dartin_69, Shaobing_69, McMater_69, Peanam_69, Richo_69
• Track 110 : Efra2_72

• Track 111 : CheetoDust_66, BaghaKamala_66, Bern_68
• Track 112 : TingHuaYa_70, LastHope_71
• Track 113 : Validus_71
• Track 114 : LaterM_67, Stinson_68, Devera_74, Murucutumbu_68, Illumine_72, Ageofdapage_70, Dole_72
• Track 115 : Apocalypse_69
• Track 116 : Guanica15_71, Yunkel11_71
• Track 117 : Marcoliusprime_69, DismalStressor_69, DismalFunk_69
• Track 118 : Strobilo_70, Milly_69, Doughnut_69, Findley_69
• Track 119 : ZoeJ_68
• Track 120 : Mufasa_69
• Track 121 : BoostSeason_69
• Track 122 : TM4_67
• Track 123 : ShedlockHolmes_69
• Track 124 : Pharb_67, TribleTrouble_68
• Track 125 : Nolwazi_72, DanSyl44_73, Qhanda_72, Kraw_70, Chancellor_70, Cheetobro_70, Wintermute_70, Lebo14_69, Malthus_71, Fionnbharth_70, SamScheppers_68, Juliette_72, Slarp_70
• Track 126 : Eponine_72
• Track 127 : Reptar3000_67
• Track 128 : Taquito_69
• Track 129 : MissDaisy_67
• Track 130 : Bobquesha_71, Patt_66
• Track 131 : Mitti_70
• Track 132 : YasnayaPolyana_69
• Track 133 : Gengar_60, Miryou_64, OkiRoe_61
• Track 134 : Edugator_59, Paola_60, Guillsminger_61, Dadosky_62, Leston_60, Psycho_60, Neighly_62, AlleyCat_62, Larva_61
• Track 135 : DoubleChamp_57, Kratio_58, Agent47_60, ViviJ_59, LilDirt_59, Collard_58, BananenDer11_60, InvictusManeo_58
• Track 136 : Rando14_62
• Track 137 : Omnicron_64
• Track 138 : SoSeph_61, Heftyboy_61, Feyre_63, Thyatira_63, Waterfoul_62
• Track 139 : Lavahound_64, Applecrisp_63, Ellie_62
• Track 140 : Unicorn_68, PhelpsODU_68
• Track 141 : SirPhilip_66
• Track 142 : Tierra_70
• Track 143 : Amohnition_66, DarthP_66, Hammy_66
• Track 144 : TClif_68
• Track 145 : Marshawn_66
• Track 146 : Fefferhead_64
• Track 147 : Ekdilam_63
• Track 148 : Boilgate_63
• Track 149 : Samty_31, Clautastrophe_31, Kingsolomon_31, TriFive_31, Nicholas_31, Lumos_31, Snenia_31, Finnry_31, MsGreen_31, Jubie_31, Bellis_31
• Track 150 : Skinny_40, Glaske16_40, Diminimus_40, Bongo_39, LilhomieP_38, Dulcita_40, TyDawg_39, Bricole_39, IPhane7_39, Izel_40, PegLeg_39
• Track 151 : Auspice_39, SlimJimmy_38, TpudiCK_41, FreakyGoo_40, KleverKiS_40
• Track 152 : Reindeer_39
• Track 153 : Rey_44
• Track 154 : GardenSalsa_44, MrMagoo_44
• Track 155 : Estes_45
• Track 156 : GenevaB15_44, Aziz_44

• Track 157 : Nanosmite_44
• Track 158 : EGUnicorn_48, Phloss_48, Tortoise12_49, Gex_50, Schnauzer_51, Magsby_50, Xerxes_50, Pipsqueaks_50, Carcharodon_50, Melville_53, Fulbright_49, Chewbacca_52, Tessdabest_51, Parmesanjohn_50, Silvafighter_51, Duplicity_50, Smurph_50
• Track 159 : Panchino_48, Butters_53, Rubeelu_53, Kevin1_52
• Track 160 : BabeRuth_56, Spinach_55, ShrimpFriedEgg_55, Jamie19_49, Redi_55, PhancyPhin_55, SpongeBob_49, Phrann_52, Nenae_55, Raymond7_49, Hanako_55, Purgamenstris_55, Andies_48, Tapioca_52, Snekmaggedon_49
• Track 161 : Charlie_51, Bosection6_49
• Track 162 : Impisi_56
• Track 163 : Laure_112

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

The start number called the most often in the published annotations is 30, it was called in 151 of the 504 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A6_54, AFIS_58, Abbyshoes_63, Adahisdi_62, Agaliana_56, Ajay_62, Aldrich_59, Alsfro_68, Altman_64, Alvin_62, Arcanine_64, Arlo_60, Ashballer_65, BK1_54, BaconJack_66, Barriga_65, BarrowTuph_63, Beatrix_61, BeesKnees_64, Bexan_59, Big3_63, BigMau_64, BigPaolini_59, Bigchungi_61, Bigfoot_54, Bircsak_61, Blackflame_58, Blesser_58, Bob3_63, Bones_61, Briton15_66, Bruns_63, Burton_63, Bxb1_56, CactusRose_62, Carlyle_62, CartmannCramer_60, CatBus_58, Chanagan_56, ChristmasHams_56, Ciao_60, ConceptII_64, Corvo_63, Crispicous1_59, Cueylyss_62, DD5_60, Dexes_62, DirtDevil_60, Doom_60, Dreamboat_63, Dussy_62, Edtherson_61, EnzoK_62, Euphoria_60, Eyeball_64, Fenn_64, Forsytheast_63, Francis47_60, Froghopper_60, GMonster_59, Gachnar_62, GageAP_63, Gandalf20_64, Gompeii16_61, Graduation_66, GrecoEtereo_61, GroundGoblin_59, Hami1_57, Hermia_60, HermioneGrange_64, Homines_54, Hope4ever_63, ILeeKay_64, Ichabod_66, IgnatiusPatJac_62, Inyanga_57, Iqorha_57, JC27_65, Jasper_62, Jerm2_64, Jorgensen_65, JuliaChild_63, Kanely_63, KikiBouba_61, Killigrew_61, Kykar_63, Lesedi_58, Levia_60, Licorice_63, LilBib_62, Lockley_59, LunarLander_62, Marcell_58, Marchy_56, Marco3_65, Marge_59, Marsha_61, MaryBeth_60, McGuire_63, McSinger_60, MetalQZJ_59, Michley_65, Molly_63, Monet_65, Moose_63, MrGordo_64, Mule_59, NEHalo_59, Naira_64, Nerujay_64, Niza_64, Norz_62, Noxious_61, Ohno789_62, PSullivan_60, Paraselene_60, Pari_65, Parliament_64, PascalRango_60, Payneful_60, Pelly_63, Pepe_60, Perseus_61, Peterson_66, Petruchio_62, PherrisBueller_61, PhineBark_62, Phlippers_58, PinkPlastic_62, PowerRanger_60, Puppet_61, QTRlifeCrisis_62, Rajelicia_62, Sagefire_64, ShortQueendom_56, Slagathor_64, Smairt_64, Snazzy_60, Solon_61, SpikeBT_60, Squee_63, StewieG_56, StrongArm_60, Sumter_58, Sunshine924_67, SwissCheese_65, Swole_63, Target_64, Teodoridan_60, TheloniousMonk_65, Thor_61, Topgun_60, Tote_58, Turj99_60, TwoPeat_63, U2_60, Violet_60, Wheeler_64, Whitspit_58, Wilkins_61, Zeeculate_59, Zephyr_63, Zeuska_67,

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

• Abrogate_610, Acme_64, Aeneas_65, Anglerfish_62, Applejack_60, BPBiebs31_64, BaghaKamala_66, Bern_68, Bethlehem_61, BillKnuckles_59, BluSpix_60, Blue_61, Buttons_59, CheetoDust_66, DreamCatcher_65, Dynamix_64, Espresso_59, Fajezeel_63, Fascinus_56, Fushigi_58, Greg_63, Gyzlar_57, HanShotFirst_63, HarryOW_60, KBG_63, KSSJEB_62, Kenmech_65, Kugel_64, Lamina13_66, MPlant7149_62, Manatee_62, Maroc7_59, MilleFeuille_63, Museum_64, Nhonho_60, Oogway_61, PacerPaul_61, Papez_64, Paphu_62, PattyP_64, Petp2012_65, PhrostyMug_62, Pippin_62, Pita2_63, ProMouse_64, Rhynn_60, Rohr_64, Rutherferd_64, SarFire_61, Scowl_63, Seabiscuit_65, Seanderson_64, Sibs6_64, SkiPole_70, Switzer_63, Tasp14_66, Treddle_63, Trouble_63, Watermelon_62,

Genes that do not have the "Most Annotated" start:
• ActinUp_66, Adephagia_66, Adonis_66, Agent47_60, Ageofdapage_70, AlishaPH_66, AlleyCat_62, Amohnition_66, Amyev_33, Andies_48, Angelica_66, Apocalypse_69, Applecrisp_63, Asa16_34, Asayake_66, Ashes_31, Atiba_67, Atkinbua_64, Auspice_39, Aziz_44, BEEST_66, BGlluviae_66, BabeRuth_56, BananenDer11_60, BarrelRoll_67, Beaupre_31, Beezoo_68, Bella96_67, Belladonna_66, Bellis_31, Blizzard_66, Bloom_112, Bobquesha_71, Boiiii_66, Boilgate_63, Bongo_39, BoostSeason_69, Bosection6_49, Bricole_39, Butters_53, CREW_66, CallaLilly_66, Cappuccino_31, Capricorn_66, Carcharodon_50, CaseJules_68, Cassia_34, Chancellor_70, Charlie_51, Cheetobro_70, Chewbacca_52, Chilliams_107, Clautastrophe_31, Clipper_70, Collard_58, Cyan_33, Dadosky_62, Dalmuri_66, DanSyl44_73, DartGoblin_68, DarthP_66, Dartin_69, Deby_67, Devera_74, Diminimus_40, DismalFunk_69, DismalStressor_69, Dole_72, Donkey_31, DoubleChamp_57, Doughnut_69, DrFeelGood_58, Dulcie_62, Dulcita_40, Duplicity_50, Durfee_66, EGUnicorn_48, Edugator_59, Efra2_72, Ekdilam_63, Ellie_62, Emerson_68, Eponine_72, Eraser_34, Estes_45, Fefferhead_64, Feyre_63, Findley_69, Finnry_31, Fionnbharth_70, FloraSnap32_105, FreakyGoo_40, FrostedClock_108, Fulbright_49, Gambol_31, Ganymede_66, GardenSalsa_44, GenevaB15_44, Gengar_60, Geraldini_69, Gex_50, Giorgio_31, Glaske16_40, GoldenEssence_94, Guanica15_71, Guillsminger_61, Gumpizza_31, Gwendoluna_65, Halsey_31, Hammy_66, Hanako_55, HedwigODU_66, Heftyboy_61, Homura_66, Hyperbowlee_66, IPhane7_39, Illumine_72, Impisi_56, Inky_66, InvictusManeo_58, Iter_34, IttyBittyPiggy_33, Izel_40, JAWS_67, Jamie19_49, Jarvi_66, Jayhawk_68, Jeckyll_66, Joy99_66, Jstan_36, Jubie_31, Juliette_72, JuneStar_33, Kalimba_31, Kaylissa_33, KeAlii_33, Kevin1_52, Kheparia_66, Kingsolomon_31, KleverKiS_40, Kratio_58, Kraw_70, KyMonks1A_65, Larva_61, LastHope_71, LaterM_67, Laure_112, Lavahound_64, Lebo14_69, Leston_60, LilDirt_59, LilhomieP_38, Lizalica_32, Llorens_66, Lokum_67, Lopton_60, Lumos_31, Lunahalos_66, MacKat_62, Magnar_60, Magnito_60, Magsby_50, Makemake_64, Malthus_71, Marcoliusprime_69, Marshawn_66, Maureen_36, McMater_69, MeaningOfLife_67, Melville_53, Milly_69, Mimi_108, Miryou_64, MissDaisy_67, MissSwiss_32, Mitti_70, Moss_31, MrMagoo_44, Mryolo_58, MsGreen_31, Mufasa_69, Murucutumbu_68, Mynx_68, Mysterium_31, Nanosmite_44, Neighly_62, Nenae_55, Nicholas_31, Niklas_69, Niobe_34, Nolwazi_72, OkiRoe_61, Omnicron_64, Padfoot_66, Padpat_69, Panchino_48, PandaPo_32, Paola_60, Parmesanjohn_50, Patbob_107, Patt_66, Peanam_69, Peel_66, PegLeg_39, PhancyPhin_55, Pharb_67, PhelpsODU_68, Phloss_48, Phrampa_101, Phrann_52, Piatt_66, Pinto_62, Pipsqueaks_50, Pisa1_66, Pisa4_60, Pixelle_33, Pokerus_66, Pollywog_85, Psycho_60, Pumpkins_33, Purgamenstris_55, Qhanda_72, QuincyRose_64, Racecar_109, Ramen_67, Rando14_62, Rapunzel97_68, Raymond7_49, Redi_55, Reedo_32, Reindeer_39, Reptar3000_67, Rey_44, Richo_69, RidgeCB_61,

Ringer_62, RockScotty_31, Rockabye_109, Rosmarinus_66, Rubeelu_53, Rubeus_60, Rufus_63, Ruotula_64, SJReid_112, STLscum_70, Sabourin_31, SamScheppers_68, Samty_31, Sandaddy_58, Sanya_59, Schnauzer_51, Shaobing_69, ShedlockHolmes_69, ShiaSurprise_67, ShrimpFriedEgg_55, Silvafighter_51, SirPhilip_66, Skelbel_35, Skinny_40, Slarp_70, SlimJimmy_38, Slimphazie_67, Smeagol_64, Smurph_50, Snek_33, Snekmaggedon_49, Snenia_31, SoSeph_61, Sooty_31, Sorpresa_59, SpecialK_31, Spinach_55, Spock_66, SpongeBob_49, Stinson_68, Strobilo_70, Stuu_31, Sue2_34, Sulley_66, TClif_68, TM4_67, Tachez_66, Talia1610_108, Tallboi_33, Tapioca_52, Taquito_69, Tessdabest_51, Thyatira_63, Tian_33, Tierra_70, TingHuaYa_70, Topper_66, Tortoise12_49, TpudiCK_41, Traft412_64, TriFive_31, TribleTrouble_68, Tripl3t_65, TruffulaTree_67, Tweety19_33, Twitch_66, TyDawg_39, Unicorn_68, Validus_71, Veliki_68, ViviJ_59, Warda_33, Waterfoul_62, Wildwest_33, Wintermute_70, Xerxes_50, YasnayaPolyana_69, YoureAdopted_66, Yunkel11_71, Zabiza_61, Zavala_69, ZoeJ_68,

Summary by start number:

Start 14:
• Found in 4 of 539 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 504
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Switzer_63 (A1),

Start 26:
• Found in 1 of 539 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 504
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Seanderson_64 (A1),

Start 28:
• Found in 196 of 539 (36.4%) of genes in pham
• Manual Annotations of this start: 47 of 504
• Called 24.0% of time when present
• Phage (with cluster) where this start called: Acme_64 (A1), Aeneas_65 (A1), Anglerfish_62 (A1), BPBiebs31_64 (A1), Bethlehem_61 (A1), BillKnuckles_59 (A1), BluSpix_60 (A1), Buttons_59 (A1), DreamCatcher_65 (A1), Dynamix_64 (A1), Espresso_59 (A1), Fajezeel_63 (A1), Fascinus_56 (A1), Fushigi_58 (A1), Greg_63 (A1), HanShotFirst_63 (A1), HarryOW_60 (A1), KBG_63 (A1), KSSJEB_62 (A1), Kenmech_65 (A1), Kugel_64 (A1), Lamina13_66 (A1), MPlant7149_62 (A1), Manatee_62 (A1), Maroc7_59 (A1), Museum_64 (A1), Nhonho_60 (A1), PacerPaul_61 (A1), Papez_64 (A1), Paphu_62 (A1), PattyP_64 (A1), Petp2012_65 (A1), PhrostyMug_62 (A1), Pippin_62 (A1), Pita2_63 (A1), Rhynn_60 (A1), Rohr_64 (A1), Rutherferd_64 (A1), SarFire_61 (A1), Scowl_63 (A1), Seabiscuit_65 (A1), Sibs6_64 (A1), SkiPole_70 (A1), Tasp14_66 (A1), Treddle_63 (A1), Trouble_63 (A1), Watermelon_62 (A1),

Start 30:
• Found in 222 of 539 (41.2%) of genes in pham
• Manual Annotations of this start: 151 of 504
• Called 73.4% of time when present
• Phage (with cluster) where this start called: A6_54 (A1), AFIS_58 (A1), Abbyshoes_63 (A1), Adahisdi_62 (A1), Agaliana_56 (A1), Ajay_62 (A1), Aldrich_59

(A1), Alsfro_68 (A1), Altman_64 (A1), Alvin_62 (A1), Arcanine_64 (A1), Arlo_60 (A1), Ashballer_65 (A1), BK1_54 (A1), BaconJack_66 (A1), Barriga_65 (A1), BarrowTuph_63 (A1), Beatrix_61 (A1), BeesKnees_64 (A1), Bexan_59 (A1), Big3_63 (A1), BigMau_64 (A1), BigPaolini_59 (A1), Bigchungi_61 (A1), Bigfoot_54 (A1), Bircsak_61 (A1), Blackflame_58 (A1), Blesser_58 (A1), Bob3_63 (A1), Bones_61 (A1), Briton15_66 (A1), Bruns_63 (A1), Burton_63 (A1), Bxb1_56 (A1), CactusRose_62 (A1), Carlyle_62 (A1), CartmannCramer_60 (A1), CatBus_58 (A1), Chanagan_56 (A1), ChristmasHams_56 (A1), Ciao_60 (A1), ConceptII_64 (A1), Corvo_63 (A1), Crispicous1_59 (A1), Cueylyss_62 (A1), DD5_60 (A1), Dexes_62 (A1), DirtDevil_60 (A1), Doom_60 (A1), Dreamboat_63 (A1), Dussy_62 (A1), Edtherson_61 (A1), EnzoK_62 (A1), Euphoria_60 (A1), Eyeball_64 (A1), Fenn_64 (A1), Forsytheast_63 (A1), Francis47_60 (A1), Froghopper_60 (A1), GMonster_59 (A1), Gachnar_62 (A1), GageAP_63 (A1), Gandalf20_64 (A1), Gompeii16_61 (A1), Graduation_66 (A1), GrecoEtereo_61 (A1), GroundGoblin_59 (A1), Hami1_57 (A1), Hermia_60 (A1), HermioneGrange_64 (A1), Homines_54 (A1), Hope4ever_63 (A1), ILeeKay_64 (A1), Ichabod_66 (A1), IgnatiusPatJac_62 (A1), Inyanga_57 (A1), Iqorha_57 (A1), JC27_65 (A1), Jasper_62 (A1), Jerm2_64 (A1), Jorgensen_65 (A1), JuliaChild_63 (A1), Kanely_63 (A1), KikiBouba_61 (A1), Killigrew_61 (A1), Kykar_63 (A1), Lesedi_58 (A1), Levia_60 (A1), Licorice_63 (A1), LilBib_62 (A1), Lockley_59 (A1), LunarLander_62 (A1), Marcell_58 (A1), Marchy_56 (A1), Marco3_65 (A1), Marge_59 (A1), Marsha_61 (A1), MaryBeth_60 (A1), McGuire_63 (A1), McSinger_60 (A1), MetalQZJ_59 (A1), Michley_65 (A1), Molly_63 (A1), Monet_65 (A1), Moose_63 (A1), MrGordo_64 (A1), Mule_59 (A1), NEHalo_59 (A1), Naira_64 (A1), Nerujay_64 (A1), Niza_64 (A1), Norz_62 (A1), Noxious_61 (A1), Ohno789_62 (A1), PSullivan_60 (A1), Paraselene_60 (A1), Pari_65 (A1), Parliament_64 (A1), PascalRango_60 (A1), Payneful_60 (A1), Pelly_63 (A1), Pepe_60 (A1), Perseus_61 (A1), Peterson_66 (A1), Petruchio_62 (A1), PherrisBueller_61 (A1), PhineBark_62 (A1), Phlippers_58 (A1), PinkPlastic_62 (A1), PowerRanger_60 (A1), Puppet_61 (A1), QTRlifeCrisis_62 (A1), Rajelicia_62 (A1), Sagefire_64 (A1), ShortQueendom_56 (A1), Slagathor_64 (A1), Smairt_64 (A1), Snazzy_60 (A1), Solon_61 (A1), SpikeBT_60 (A1), Squee_63 (A1), StewieG_56 (A1), StrongArm_60 (A1), Sumter_58 (A1), Sunshine924_67 (A1), SwissCheese_65 (A1), Swole_63 (A1), Target_64 (A1), Teodoridan_60 (A1), TheloniousMonk_65 (A1), Thor_61 (A1), Topgun_60 (A1), Tote_58 (A1), Turj99_60 (A1), TwoPeat_63 (A1), U2_60 (A1), Violet_60 (A1), Wheeler_64 (A1), Whitspit_58 (A1), Wilkins_61 (A1), Zeeculate_59 (A1), Zephyr_63 (A1), Zeuska_67 (A1),

Start 31:
• Found in 2 of 539 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 504
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Snek_33 (AZ3), Tweety19_33 (AZ3),

Start 34:
• Found in 215 of 539 (39.9%) of genes in pham
• Manual Annotations of this start: 2 of 504
• Called 0.9% of time when present
• Phage (with cluster) where this start called: Gyzlar_57 (A1), ProMouse_64 (A1),

Start 35:
• Found in 10 of 539 (1.9%) of genes in pham
• Manual Annotations of this start: 6 of 504
• Called 60.0% of time when present

• Phage (with cluster) where this start called: Atkinbua_64 (A1), Makemake_64 (A1), Pinto_62 (A1), Pollywog_85 (F1), RidgeCB_61 (A1), Rufus_63 (A1),

Start 36:
• Found in 1 of 539 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 504
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Smeagol_64 (A1),

Start 37:
• Found in 5 of 539 (0.9%) of genes in pham
• Manual Annotations of this start: 5 of 504
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abrogate_610 (A1), Applejack_60 (A1), MilleFeuille_63 (A1), Ringer_62 (A1), STLscum_70 (A1),

Start 38:
• Found in 5 of 539 (0.9%) of genes in pham
• Manual Annotations of this start: 3 of 504
• Called 60.0% of time when present
• Phage (with cluster) where this start called: IttyBittyPiggy_33 (AZ1), KeAlii_33 (AZ1), Tallboi_33 (AZ1),

Start 39:
• Found in 11 of 539 (2.0%) of genes in pham
• Manual Annotations of this start: 4 of 504
• Called 36.4% of time when present
• Phage (with cluster) where this start called: Gwendoluna_65 (A1), Lopton_60 (A1), Rubeus_60 (A1), Sanya_59 (A1),

Start 40:
• Found in 15 of 539 (2.8%) of genes in pham
• Manual Annotations of this start: 13 of 504
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Asa16_34 (AZ1), Cassia_34 (AZ1), Cyan_33 (AZ1), Eraser_34 (AZ1), Iter_34 (AZ1), Jstan_36 (AZ1), JuneStar_33 (AZ1), Kaylissa_33 (AZ1), Lizalica_32 (AZ1), Niobe_34 (AZ1), Pumpkins_33 (AZ1), Skelbel_35 (AZ1), Sue2_34 (AZ1), Warda_33 (AZ1), Wildwest_33 (AZ1),

Start 41:
• Found in 19 of 539 (3.5%) of genes in pham
• Manual Annotations of this start: 18 of 504
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ashes_31 (AZ5), Beaupre_31 (AZ5), Cappuccino_31 (AZ5), Donkey_31 (AZ5), Gambol_31 (AZ5), Giorgio_31 (AZ5), Gumpizza_31 (AZ5), Halsey_31 (AZ5), Kalimba_31 (AZ5), Maureen_36 (AZ2), MissSwiss_32 (AZ1), Moss_31 (AZ5), Mysterium_31 (AZ5), PandaPo_32 (AZ1), RockScotty_31 (AZ5), Sabourin_31 (AZ5), Sooty_31 (AZ5), SpecialK_31 (AZ5), Stuu_31 (AZ5),

Start 42:
• Found in 11 of 539 (2.0%) of genes in pham
• Manual Annotations of this start: 10 of 504

• Called 100.0% of time when present
• Phage (with cluster) where this start called: DrFeelGood_58 (A1), Dulcie_62 (A1), KyMonks1A_65 (A1), Magnar_60 (A1), Magnito_60 (A1), Mryolo_58 (A1), Ruotula_64 (A1), Sandaddy_58 (A1), Sorpresa_59 (A1), Traft412_64 (A1), Tripl3t_65 (A1),

Start 43:
• Found in 17 of 539 (3.2%) of genes in pham
• Manual Annotations of this start: 12 of 504
• Called 70.6% of time when present
• Phage (with cluster) where this start called: Bongo_39 (M1), Bricole_39 (M1), Diminimus_40 (M1), Dulcita_40 (M1), Glaske16_40 (M1), IPhane7_39 (M1), Izel_40 (M1), LilhomieP_38 (M1), PegLeg_39 (M1), Reindeer_39 (M1), Skinny_40 (M1), TyDawg_39 (M1),

Start 44:
• Found in 4 of 539 (0.7%) of genes in pham
• Manual Annotations of this start: 3 of 504
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amyev_33 (AZ1), Pixelle_33 (AZ1), Reedo_32 (AZ1), Tian_33 (AZ1),

Start 46:
• Found in 22 of 539 (4.1%) of genes in pham
• Manual Annotations of this start: 17 of 504
• Called 95.5% of time when present
• Phage (with cluster) where this start called: Bobquesha_71 (K4), Boilgate_63 (K8), Chancellor_70 (K4), Cheetobro_70 (K4), DanSyl44_73 (K4), Eponine_72 (K4), Fionnbharth_70 (K4), Juliette_72 (K4), Kraw_70 (K4), Lebo14_69 (K4), Malthus_71 (K4), Mitti_70 (K4), Nolwazi_72 (K4), Patt_66 (K4), Qhanda_72 (K4), Reptar3000_67 (K4), SamScheppers_68 (K4), Slarp_70 (K4), Taquito_69 (K4), Wintermute_70 (K4), YasnayaPolyana_69 (K4),

Start 47:
• Found in 80 of 539 (14.8%) of genes in pham
• Manual Annotations of this start: 38 of 504
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Andies_48 (N), BabeRuth_56 (N), Bosection6_49 (N), Butters_53 (N), Carcharodon_50 (N), Charlie_51 (N), Chewbacca_52 (N), Duplicity_50 (N), EGUnicorn_48 (N), Fulbright_49 (N), Gex_50 (N), Hanako_55 (N), Impisi_56 (N), Jamie19_49 (N), Kevin1_52 (N), Magsby_50 (N), Melville_53 (N), Nenae_55 (N), Oogway_61 (A1), Panchino_48 (N), Parmesanjohn_50 (N), PhancyPhin_55 (N), Phloss_48 (N), Phrann_52 (N), Pipsqueaks_50 (N), Purgamenstris_55 (N), Raymond7_49 (N), Redi_55 (N), Rubeelu_53 (N), Schnauzer_51 (N), ShrimpFriedEgg_55 (N), Silvafighter_51 (N), Smurph_50 (N), Snekmaggedon_49 (N), Spinach_55 (N), SpongeBob_49 (N), Tapioca_52 (N), Tessdabest_51 (N), Tortoise12_49 (N), Xerxes_50 (N),

Start 48:
• Found in 1 of 539 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 504
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rey_44 (M2),

Start 49:
• Found in 46 of 539 (8.5%) of genes in pham
• Manual Annotations of this start: 30 of 504
• Called 73.9% of time when present
• Phage (with cluster) where this start called: Auspice_39 (M1), Aziz_44 (M2), Bellis_31 (L3), Bloom_112 (FC), Chilliams_107 (FC), Clautastrophe_31 (L3), Estes_45 (M2), Finnry_31 (L3), FloraSnap32_105 (FC), FreakyGoo_40 (M1), FrostedClock_108 (FC), GardenSalsa_44 (M2), GenevaB15_44 (M2), GoldenEssence_94 (FC), Jubie_31 (L3), Kingsolomon_31 (L3), KleverKiS_40 (M1), Lumos_31 (L3), Mimi_108 (FC), MrMagoo_44 (M2), MsGreen_31 (L3), Nanosmite_44 (M3), Nicholas_31 (L3), Patbob_107 (FC), Phrampa_101 (FC), Racecar_109 (FC), Rockabye_109 (FC), SJReid_112 (FC), Samty_31 (L3), SlimJimmy_38 (M1), Snenia_31 (L3), Talia1610_108 (FC), TpudiCK_41 (M1), TriFive_31 (L3),

Start 50:
• Found in 1 of 539 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 504
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apocalypse_69 (K1),

Start 51:
• Found in 160 of 539 (29.7%) of genes in pham
• Manual Annotations of this start: 136 of 504
• Called 90.0% of time when present
• Phage (with cluster) where this start called: ActinUp_66 (K1), Adephagia_66 (K1), Adonis_66 (K1), Agent47_60 (K5), Ageofdapage_70 (K1), AlishaPH_66 (K1), AlleyCat_62 (K5), Amohnition_66 (K6), Angelica_66 (K1), Applecrisp_63 (K6), Asayake_66 (K1), Atiba_67 (K1), BEEST_66 (K1), BGlluviae_66 (K1), BaghaKamala_66 (K1), BananenDer11_60 (K5), BarrelRoll_67 (K1), Beezoo_68 (K1), Bella96_67 (K1), Belladonna_66 (K1), Bern_68 (K1), Blizzard_66 (K1), Boiiii_66 (K1), BoostSeason_69 (K2), CREW_66 (K1), CallaLilly_66 (K1), Capricorn_66 (K1), CaseJules_68 (K1), CheetoDust_66 (K1), Clipper_70 (K1), Collard_58 (K5), Dadosky_62 (K5), Dalmuri_66 (K1), DartGoblin_68 (K1), DarthP_66 (K6), Dartin_69 (K1), Deby_67 (K1), Devera_74 (K1), DismalFunk_69 (K2), DismalStressor_69 (K2), Dole_72 (K1), DoubleChamp_57 (K5), Doughnut_69 (K2), Durfee_66 (K1), Edugator_59 (K5), Efra2_72 (K1), Ekdilam_63 (K6), Ellie_62 (K6), Emerson_68 (K1), Fefferhead_64 (K6), Feyre_63 (K5), Findley_69 (K2), Ganymede_66 (K1), Gengar_60 (K5), Geraldini_69 (K1), Guanica15_71 (K1), Guillsminger_61 (K5), Hammy_66 (K6), HedwigODU_66 (K1), Heftyboy_61 (K5), Homura_66 (K1), Hyperbowlee_66 (K1), Illumine_72 (K1), Inky_66 (K1), InvictusManeo_58 (K5), JAWS_67 (K1), Jarvi_66 (K1), Jayhawk_68 (K1), Jeckyll_66 (K1), Joy99_66 (K1), Kheparia_66 (K1), Kratio_58 (K5), Larva_61 (K5), LastHope_71 (K1), LaterM_67 (K1), Laure_112 (UNK), Lavahound_64 (K6), Leston_60 (K5), LilDirt_59 (K5), Llorens_66 (K1), Lokum_67 (K1), Lunahalos_66 (K1), MacKat_62 (K1), Marcoliusprime_69 (K2), Marshawn_66 (K6), McMater_69 (K1), MeaningOfLife_67 (K1), Milly_69 (K2), Miryou_64 (K5), Mufasa_69 (K2), Murucutumbu_68 (K1), Mynx_68 (K1), Neighly_62 (K3), Niklas_69 (K1), OkiRoe_61 (K5), Omnicron_64 (K5), Padfoot_66 (K1), Padpat_69 (K1), Paola_60 (K5), Peanam_69 (K1), Peel_66 (K1), Pharb_67 (K3), PhelpsODU_68 (K6), Piatt_66 (K1), Pisa1_66 (K1), Pisa4_60 (K1), Pokerus_66 (K1), Psycho_60 (K5), QuincyRose_64 (K1), Ramen_67 (K1), Rando14_62 (K5), Rapunzel97_68 (K1), Richo_69 (K1), Rosmarinus_66 (K1), Shaobing_69 (K1), ShedlockHolmes_69 (K3), ShiaSurprise_67 (K1), SirPhilip_66 (K6), Slimphazie_67 (K1), SoSeph_61 (K5), Spock_66 (K1), Stinson_68 (K1), Strobilo_70 (K2), Sulley_66 (K1), TClif_68 (K6),

TM4_67 (K2), Tachez_66 (K1), Thyatira_63 (K5), Tierra_70 (K6), TingHuaYa_70 (K1), Topper_66 (K1), TribleTrouble_68 (K3), TruffulaTree_67 (K1), Twitch_66 (K1), Unicorn_68 (K6), Validus_71 (K1), Veliki_68 (K1), ViviJ_59 (K5), Waterfoul_62 (K5), YoureAdopted_66 (K1), Yunkel11_71 (K1), Zabiza_61 (K1), Zavala_69 (K1), ZoeJ_68 (K2),

Start 52:
• Found in 97 of 539 (18.0%) of genes in pham
• Manual Annotations of this start: 1 of 504
• Called 1.0% of time when present
• Phage (with cluster) where this start called: MissDaisy_67 (K4),

Start 53:
• Found in 272 of 539 (50.5%) of genes in pham
• Manual Annotations of this start: 1 of 504
• Called 0.4% of time when present
• Phage (with cluster) where this start called: Blue_61 (A1),

Summary by clusters:

There are 20 clusters represented in this pham: F1, AZ3, M3, K8, M2, N, A1, K2, K1, FC, M1, L3, K5, K4, AZ1, AZ2, UNK, AZ5, K3, K6,

Info for manual annotations of cluster A1:
•Start number 14 was manually annotated 1 time for cluster A1.
•Start number 26 was manually annotated 1 time for cluster A1.
•Start number 28 was manually annotated 47 times for cluster A1.
•Start number 30 was manually annotated 151 times for cluster A1.
•Start number 34 was manually annotated 2 times for cluster A1.
•Start number 35 was manually annotated 5 times for cluster A1.
•Start number 36 was manually annotated 1 time for cluster A1.
•Start number 37 was manually annotated 5 times for cluster A1.
•Start number 39 was manually annotated 4 times for cluster A1.
•Start number 42 was manually annotated 10 times for cluster A1.
•Start number 47 was manually annotated 1 time for cluster A1.
•Start number 53 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster AZ1:
•Start number 38 was manually annotated 3 times for cluster AZ1.
•Start number 40 was manually annotated 13 times for cluster AZ1.
•Start number 41 was manually annotated 1 time for cluster AZ1.
•Start number 44 was manually annotated 3 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 41 was manually annotated 1 time for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 31 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ5:
•Start number 41 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster F1:

•Start number 35 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster FC:
•Start number 49 was manually annotated 10 times for cluster FC.

Info for manual annotations of cluster K1:
•Start number 50 was manually annotated 1 time for cluster K1.
•Start number 51 was manually annotated 83 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 51 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 51 was manually annotated 3 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 46 was manually annotated 16 times for cluster K4.
•Start number 52 was manually annotated 1 time for cluster K4.

Info for manual annotations of cluster K5:
•Start number 51 was manually annotated 25 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 51 was manually annotated 14 times for cluster K6.

Info for manual annotations of cluster K8:
•Start number 46 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster L3:
•Start number 49 was manually annotated 11 times for cluster L3.

Info for manual annotations of cluster M1:
•Start number 43 was manually annotated 12 times for cluster M1.
•Start number 49 was manually annotated 3 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 48 was manually annotated 1 time for cluster M2.
•Start number 49 was manually annotated 5 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 49 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster N:
•Start number 47 was manually annotated 37 times for cluster N.

Gene Information:

Gene: A6_54 Start: 38910, Stop: 38635, Start Num: 30
Candidate Starts for A6_54:

(Start: 28 @38913 has 47 MA's), (Start: 30 @38910 has 151 MA's), (Start: 34 @38898 has 2 MA's), (Start: 53 @38868 has 1 MA's), (59, 38817), (62, 38802), (65, 38781), (68, 38751), (73, 38721),

Gene: AFIS_58 Start: 39979, Stop: 39713, Start Num: 30
Candidate Starts for AFIS_58:
(Start: 28 @39982 has 47 MA's), (Start: 30 @39979 has 151 MA's), (Start: 34 @39967 has 2 MA's), (Start: 53 @39946 has 1 MA's), (59, 39895), (62, 39880), (65, 39859), (68, 39829), (73, 39799), (88, 39724),

Gene: Abbyshoes_63 Start: 41669, Stop: 41403, Start Num: 30
Candidate Starts for Abbyshoes_63:
(Start: 28 @41672 has 47 MA's), (Start: 30 @41669 has 151 MA's), (Start: 34 @41657 has 2 MA's), (Start: 53 @41636 has 1 MA's), (59, 41585), (62, 41570), (65, 41549), (68, 41519), (73, 41489),

Gene: Abrogate_610 Start: 42660, Stop: 42409, Start Num: 37
Candidate Starts for Abrogate_610:
(Start: 30 @42684 has 151 MA's), (Start: 37 @42660 has 5 MA's), (59, 42591), (62, 42576), (65, 42555), (66, 42534), (68, 42525), (73, 42495),

Gene: Acme_64 Start: 41595, Stop: 41326, Start Num: 28
Candidate Starts for Acme_64:
(Start: 28 @41595 has 47 MA's), (Start: 30 @41592 has 151 MA's), (Start: 34 @41580 has 2 MA's), (Start: 53 @41559 has 1 MA's), (59, 41508), (62, 41493), (65, 41472), (68, 41442), (73, 41412), (88, 41337),

Gene: ActinUp_66 Start: 43467, Stop: 43709, Start Num: 51
Candidate Starts for ActinUp_66:
(Start: 51 @43467 has 136 MA's), (64, 43557), (80, 43653), (84, 43677),

Gene: Adahisdi_62 Start: 42536, Stop: 42240, Start Num: 30
Candidate Starts for Adahisdi_62:
(Start: 28 @42539 has 47 MA's), (Start: 30 @42536 has 151 MA's), (Start: 34 @42524 has 2 MA's), (Start: 47 @42491 has 38 MA's), (Start: 53 @42473 has 1 MA's), (59, 42422), (62, 42407), (65, 42386), (68, 42356), (73, 42326), (88, 42251),

Gene: Adephagia_66 Start: 43504, Stop: 43746, Start Num: 51
Candidate Starts for Adephagia_66:
(Start: 51 @43504 has 136 MA's), (64, 43594), (80, 43690), (84, 43714),

Gene: Adonis_66 Start: 43739, Stop: 43981, Start Num: 51
Candidate Starts for Adonis_66:
(Start: 51 @43739 has 136 MA's), (64, 43829), (80, 43925), (84, 43949),

Gene: Aeneas_65 Start: 43097, Stop: 42828, Start Num: 28
Candidate Starts for Aeneas_65:
(Start: 28 @43097 has 47 MA's), (Start: 30 @43094 has 151 MA's), (Start: 34 @43082 has 2 MA's), (Start: 53 @43061 has 1 MA's), (59, 43010), (62, 42995), (65, 42974), (68, 42944), (73, 42914),

Gene: Agaliana_56 Start: 37891, Stop: 37616, Start Num: 30
Candidate Starts for Agaliana_56:
(Start: 28 @37894 has 47 MA's), (Start: 30 @37891 has 151 MA's), (Start: 34 @37879 has 2 MA's), (Start: 53 @37849 has 1 MA's), (59, 37798), (62, 37783), (65, 37762), (68, 37732), (73, 37702),

Gene: Agent47_60 Start: 40769, Stop: 41017, Start Num: 51
Candidate Starts for Agent47_60:
(Start: 51 @40769 has 136 MA's), (69, 40901), (74, 40931), (82, 40964),

Gene: Ageofdapage_70 Start: 44895, Stop: 45137, Start Num: 51
Candidate Starts for Ageofdapage_70:
(Start: 51 @44895 has 136 MA's), (64, 44985), (80, 45081), (84, 45105),

Gene: Ajay_62 Start: 41482, Stop: 41216, Start Num: 30
Candidate Starts for Ajay_62:
(Start: 28 @41485 has 47 MA's), (Start: 30 @41482 has 151 MA's), (Start: 34 @41470 has 2 MA's), (Start: 53 @41449 has 1 MA's), (59, 41398), (62, 41383), (65, 41362), (68, 41332), (73, 41302), (88, 41227),

Gene: Aldrich_59 Start: 40769, Stop: 40503, Start Num: 30
Candidate Starts for Aldrich_59:
(Start: 28 @40772 has 47 MA's), (Start: 30 @40769 has 151 MA's), (Start: 34 @40757 has 2 MA's), (Start: 53 @40736 has 1 MA's), (59, 40685), (62, 40670), (65, 40649), (68, 40619), (73, 40589),

Gene: AlishaPH_66 Start: 43765, Stop: 44007, Start Num: 51
Candidate Starts for AlishaPH_66:
(Start: 51 @43765 has 136 MA's), (64, 43855), (80, 43951), (84, 43975),

Gene: AlleyCat_62 Start: 41081, Stop: 41329, Start Num: 51
Candidate Starts for AlleyCat_62:
(Start: 51 @41081 has 136 MA's), (62, 41156), (72, 41228),

Gene: Alsfro_68 Start: 41762, Stop: 41487, Start Num: 30
Candidate Starts for Alsfro_68:
(Start: 28 @41765 has 47 MA's), (Start: 30 @41762 has 151 MA's), (Start: 34 @41750 has 2 MA's), (Start: 53 @41720 has 1 MA's), (59, 41669), (62, 41654), (65, 41633), (68, 41603), (73, 41573), (88, 41498),

Gene: Altman_64 Start: 41400, Stop: 41125, Start Num: 30
Candidate Starts for Altman_64:
(Start: 28 @41403 has 47 MA's), (Start: 30 @41400 has 151 MA's), (Start: 34 @41388 has 2 MA's), (59, 41307), (62, 41292), (65, 41271), (68, 41241), (73, 41211),

Gene: Alvin_62 Start: 41227, Stop: 40952, Start Num: 30
Candidate Starts for Alvin_62:
(Start: 14 @41332 has 1 MA's), (15, 41329), (19, 41284), (21, 41266), (Start: 28 @41230 has 47 MA's), (Start: 30 @41227 has 151 MA's), (Start: 34 @41215 has 2 MA's), (Start: 53 @41185 has 1 MA's), (59, 41134), (62, 41119), (65, 41098), (68, 41068), (73, 41038), (83, 40993), (88, 40963),

Gene: Amohnition_66 Start: 44113, Stop: 44352, Start Num: 51
Candidate Starts for Amohnition_66:
(Start: 51 @44113 has 136 MA's), (64, 44203), (72, 44263),

Gene: Amyev_33 Start: 26378, Stop: 26620, Start Num: 44
Candidate Starts for Amyev_33:
(Start: 44 @26378 has 3 MA's),

Gene: Andies_48 Start: 34452, Stop: 34700, Start Num: 47

Candidate Starts for Andies_48:
(Start: 47 @34452 has 38 MA's), (Start: 52 @34464 has 1 MA's), (73, 34614), (74, 34617), (88, 34692),

Gene: Angelica_66 Start: 43657, Stop: 43899, Start Num: 51
Candidate Starts for Angelica_66:
(Start: 51 @43657 has 136 MA's), (64, 43747), (80, 43843), (84, 43867),

Gene: Anglerfish_62 Start: 41575, Stop: 41306, Start Num: 28
Candidate Starts for Anglerfish_62:
(Start: 28 @41575 has 47 MA's), (Start: 30 @41572 has 151 MA's), (Start: 34 @41560 has 2 MA's), (Start: 52 @41545 has 1 MA's), (Start: 53 @41539 has 1 MA's), (59, 41488), (62, 41473), (65, 41452), (68, 41422), (73, 41392),

Gene: Apocalypse_69 Start: 44420, Stop: 44662, Start Num: 50
Candidate Starts for Apocalypse_69:
(Start: 50 @44420 has 1 MA's), (64, 44510), (80, 44606), (84, 44630),

Gene: Applecrisp_63 Start: 43695, Stop: 43937, Start Num: 51
Candidate Starts for Applecrisp_63:
(24, 43626), (Start: 51 @43695 has 136 MA's), (Start: 53 @43704 has 1 MA's), (59, 43755), (64, 43785), (80, 43881), (84, 43905),

Gene: Applejack_60 Start: 39669, Stop: 39418, Start Num: 37
Candidate Starts for Applejack_60:
(Start: 30 @39693 has 151 MA's), (Start: 37 @39669 has 5 MA's), (59, 39600), (62, 39585), (65, 39564), (68, 39534), (73, 39504),

Gene: Arcanine_64 Start: 42296, Stop: 42030, Start Num: 30
Candidate Starts for Arcanine_64:
(Start: 28 @42299 has 47 MA's), (Start: 30 @42296 has 151 MA's), (Start: 34 @42284 has 2 MA's), (Start: 52 @42269 has 1 MA's), (Start: 53 @42263 has 1 MA's), (59, 42212), (62, 42197), (65, 42176), (68, 42146), (73, 42116),

Gene: Arlo_60 Start: 40881, Stop: 40585, Start Num: 30
Candidate Starts for Arlo_60:
(Start: 28 @40884 has 47 MA's), (Start: 30 @40881 has 151 MA's), (Start: 34 @40869 has 2 MA's), (Start: 47 @40836 has 38 MA's), (Start: 53 @40818 has 1 MA's), (59, 40767), (62, 40752), (65, 40731), (68, 40701), (73, 40671), (88, 40596),

Gene: Asa16_34 Start: 26607, Stop: 26864, Start Num: 40
Candidate Starts for Asa16_34:
(7, 26370), (8, 26379), (Start: 40 @26607 has 13 MA's), (56, 26655), (75, 26772),

Gene: Asayake_66 Start: 43819, Stop: 44061, Start Num: 51
Candidate Starts for Asayake_66:
(Start: 51 @43819 has 136 MA's), (64, 43909), (80, 44005), (84, 44029),

Gene: Ashballer_65 Start: 42043, Stop: 41777, Start Num: 30
Candidate Starts for Ashballer_65:
(Start: 28 @42046 has 47 MA's), (Start: 30 @42043 has 151 MA's), (Start: 34 @42031 has 2 MA's), (Start: 53 @42010 has 1 MA's), (59, 41959), (62, 41944), (65, 41923), (68, 41893), (73, 41863),

Gene: Ashes_31 Start: 22585, Stop: 22851, Start Num: 41

Candidate Starts for Ashes_31:
(Start: 41 @22585 has 18 MA's), (Start: 51 @22600 has 136 MA's), (61, 22663), (63, 22681), (81, 22783),

Gene: Atiba_67 Start: 43467, Stop: 43709, Start Num: 51
Candidate Starts for Atiba_67:
(Start: 51 @43467 has 136 MA's), (64, 43557), (80, 43653), (84, 43677),

Gene: Atkinbua_64 Start: 41089, Stop: 40823, Start Num: 35
Candidate Starts for Atkinbua_64:
(Start: 35 @41089 has 6 MA's), (Start: 39 @41077 has 4 MA's), (Start: 53 @41056 has 1 MA's), (59, 41005), (62, 40990), (65, 40969), (68, 40939), (73, 40909), (88, 40834),

Gene: Auspice_39 Start: 32780, Stop: 33040, Start Num: 49
Candidate Starts for Auspice_39:
(18, 32651), (Start: 43 @32762 has 12 MA's), (Start: 49 @32780 has 30 MA's), (59, 32843), (72, 32930), (73, 32939), (76, 32948),

Gene: Aziz_44 Start: 33930, Stop: 34181, Start Num: 49
Candidate Starts for Aziz_44:
(Start: 49 @33930 has 30 MA's), (64, 34023), (70, 34074), (71, 34077), (74, 34092), (85, 34146),

Gene: BEEST_66 Start: 43819, Stop: 44061, Start Num: 51
Candidate Starts for BEEST_66:
(Start: 51 @43819 has 136 MA's), (64, 43909), (80, 44005), (84, 44029),

Gene: BGlluviae_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for BGlluviae_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: BK1_54 Start: 38910, Stop: 38635, Start Num: 30
Candidate Starts for BK1_54:
(Start: 28 @38913 has 47 MA's), (Start: 30 @38910 has 151 MA's), (Start: 34 @38898 has 2 MA's), (Start: 53 @38868 has 1 MA's), (59, 38817), (62, 38802), (65, 38781), (68, 38751), (73, 38721),

Gene: BPBiebs31_64 Start: 41826, Stop: 41557, Start Num: 28
Candidate Starts for BPBiebs31_64:
(Start: 28 @41826 has 47 MA's), (Start: 30 @41823 has 151 MA's), (Start: 34 @41811 has 2 MA's), (Start: 38 @41796 has 3 MA's), (Start: 53 @41790 has 1 MA's), (62, 41724), (65, 41703), (68, 41673), (73, 41643),

Gene: BabeRuth_56 Start: 36173, Stop: 36421, Start Num: 47
Candidate Starts for BabeRuth_56:
(Start: 47 @36173 has 38 MA's), (Start: 52 @36185 has 1 MA's), (73, 36335), (74, 36338), (88, 36413),

Gene: BaconJack_66 Start: 44013, Stop: 43747, Start Num: 30
Candidate Starts for BaconJack_66:
(Start: 28 @44016 has 47 MA's), (Start: 30 @44013 has 151 MA's), (Start: 34 @44001 has 2 MA's), (Start: 53 @43980 has 1 MA's), (59, 43929), (62, 43914), (65, 43893), (68, 43863), (73, 43833),

Gene: BaghaKamala_66 Start: 43286, Stop: 43528, Start Num: 51
Candidate Starts for BaghaKamala_66:

(Start: 30 @43241 has 151 MA's), (Start: 51 @43286 has 136 MA's), (64, 43376), (80, 43472), (84, 43496),

Gene: BananenDer11_60 Start: 40730, Stop: 40978, Start Num: 51
Candidate Starts for BananenDer11_60:
(Start: 51 @40730 has 136 MA's), (69, 40862), (74, 40892), (82, 40925),

Gene: BarrelRoll_67 Start: 43905, Stop: 44147, Start Num: 51
Candidate Starts for BarrelRoll_67:
(Start: 51 @43905 has 136 MA's), (64, 43995), (80, 44091), (84, 44115),

Gene: Barriga_65 Start: 40220, Stop: 39954, Start Num: 30
Candidate Starts for Barriga_65:
(Start: 28 @40223 has 47 MA's), (Start: 30 @40220 has 151 MA's), (Start: 34 @40208 has 2 MA's), (Start: 53 @40187 has 1 MA's), (59, 40136), (62, 40121), (65, 40100), (68, 40070), (73, 40040), (88, 39965),

Gene: BarrowTuph_63 Start: 41075, Stop: 40809, Start Num: 30
Candidate Starts for BarrowTuph_63:
(Start: 28 @41078 has 47 MA's), (Start: 30 @41075 has 151 MA's), (Start: 34 @41063 has 2 MA's), (Start: 53 @41042 has 1 MA's), (59, 40991), (62, 40976), (65, 40955), (68, 40925), (73, 40895),

Gene: Beatrix_61 Start: 42133, Stop: 41867, Start Num: 30
Candidate Starts for Beatrix_61:
(Start: 28 @42136 has 47 MA's), (Start: 30 @42133 has 151 MA's), (Start: 34 @42121 has 2 MA's), (Start: 53 @42097 has 1 MA's), (58, 42052), (62, 42034), (65, 42013), (68, 41983), (73, 41953), (88, 41878),

Gene: Beaupre_31 Start: 22586, Stop: 22852, Start Num: 41
Candidate Starts for Beaupre_31:
(Start: 41 @22586 has 18 MA's), (Start: 51 @22601 has 136 MA's), (61, 22664), (63, 22682), (81, 22784),

Gene: BeesKnees_64 Start: 40665, Stop: 40390, Start Num: 30
Candidate Starts for BeesKnees_64:
(Start: 30 @40665 has 151 MA's), (Start: 34 @40653 has 2 MA's), (59, 40572), (62, 40557), (65, 40536), (68, 40506), (73, 40476),

Gene: Beezoo_68 Start: 44417, Stop: 44659, Start Num: 51
Candidate Starts for Beezoo_68:
(Start: 51 @44417 has 136 MA's), (64, 44507), (80, 44603), (84, 44627),

Gene: Bella96_67 Start: 44208, Stop: 44450, Start Num: 51
Candidate Starts for Bella96_67:
(Start: 51 @44208 has 136 MA's), (64, 44298), (80, 44394), (84, 44418),

Gene: Belladonna_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for Belladonna_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: Bellis_31 Start: 28787, Stop: 29053, Start Num: 49
Candidate Starts for Bellis_31:
(Start: 49 @28787 has 30 MA's), (Start: 53 @28799 has 1 MA's), (55, 28832),

Gene: Bern_68 Start: 42879, Stop: 43121, Start Num: 51
Candidate Starts for Bern_68:
(Start: 30 @42834 has 151 MA's), (Start: 51 @42879 has 136 MA's), (64, 42969), (80, 43065), (84, 43089),

Gene: Bethlehem_61 Start: 42502, Stop: 42233, Start Num: 28
Candidate Starts for Bethlehem_61:
(Start: 28 @42502 has 47 MA's), (Start: 30 @42499 has 151 MA's), (Start: 34 @42487 has 2 MA's), (Start: 52 @42472 has 1 MA's), (Start: 53 @42466 has 1 MA's), (59, 42415), (62, 42400), (65, 42379), (68, 42349), (73, 42319), (88, 42244),

Gene: Bexan_59 Start: 41912, Stop: 41646, Start Num: 30
Candidate Starts for Bexan_59:
(Start: 28 @41915 has 47 MA's), (Start: 30 @41912 has 151 MA's), (Start: 34 @41900 has 2 MA's), (Start: 53 @41876 has 1 MA's), (58, 41831), (62, 41813), (68, 41762), (88, 41657),

Gene: Big3_63 Start: 42551, Stop: 42288, Start Num: 30
Candidate Starts for Big3_63:
(Start: 28 @42554 has 47 MA's), (Start: 30 @42551 has 151 MA's), (Start: 34 @42539 has 2 MA's), (Start: 53 @42518 has 1 MA's), (59, 42467), (62, 42452), (65, 42431), (68, 42401), (73, 42371), (88, 42299),

Gene: BigMau_64 Start: 41801, Stop: 41505, Start Num: 30
Candidate Starts for BigMau_64:
(Start: 28 @41804 has 47 MA's), (Start: 30 @41801 has 151 MA's), (Start: 34 @41789 has 2 MA's), (Start: 47 @41756 has 38 MA's), (Start: 53 @41738 has 1 MA's), (59, 41687), (62, 41672), (65, 41651), (68, 41621), (73, 41591), (88, 41516),

Gene: BigPaolini_59 Start: 39208, Stop: 38933, Start Num: 30
Candidate Starts for BigPaolini_59:
(Start: 28 @39211 has 47 MA's), (Start: 30 @39208 has 151 MA's), (Start: 34 @39196 has 2 MA's), (Start: 53 @39166 has 1 MA's), (59, 39115), (62, 39100), (65, 39079), (68, 39049), (73, 39019),

Gene: Bigchungi_61 Start: 41000, Stop: 40725, Start Num: 30
Candidate Starts for Bigchungi_61:
(Start: 28 @41003 has 47 MA's), (Start: 30 @41000 has 151 MA's), (Start: 34 @40988 has 2 MA's), (59, 40907), (62, 40892), (65, 40871), (68, 40841), (73, 40811),

Gene: Bigfoot_54 Start: 40154, Stop: 39888, Start Num: 30
Candidate Starts for Bigfoot_54:
(Start: 28 @40157 has 47 MA's), (Start: 30 @40154 has 151 MA's), (Start: 34 @40142 has 2 MA's), (Start: 53 @40121 has 1 MA's), (59, 40070), (62, 40055), (65, 40034), (68, 40004), (73, 39974),

Gene: BillKnuckles_59 Start: 42435, Stop: 42130, Start Num: 28
Candidate Starts for BillKnuckles_59:
(Start: 28 @42435 has 47 MA's), (Start: 30 @42432 has 151 MA's), (Start: 34 @42420 has 2 MA's), (Start: 53 @42396 has 1 MA's), (58, 42351), (62, 42333), (68, 42282), (83, 42207), (88, 42177), (90, 42153),

Gene: Bircsak_61 Start: 42809, Stop: 42543, Start Num: 30
Candidate Starts for Bircsak_61:

(Start: 28 @42812 has 47 MA's), (Start: 30 @42809 has 151 MA's), (Start: 34 @42797 has 2 MA's), (Start: 53 @42776 has 1 MA's), (59, 42725), (62, 42710), (65, 42689), (68, 42659), (73, 42629),

Gene: Blackflame_58 Start: 40747, Stop: 40481, Start Num: 30
Candidate Starts for Blackflame_58:
(Start: 28 @40750 has 47 MA's), (Start: 30 @40747 has 151 MA's), (Start: 34 @40735 has 2 MA's), (Start: 53 @40714 has 1 MA's), (59, 40663), (62, 40648), (65, 40627), (68, 40597), (73, 40567), (88, 40492),

Gene: Blesser_58 Start: 40182, Stop: 39916, Start Num: 30
Candidate Starts for Blesser_58:
(Start: 28 @40185 has 47 MA's), (Start: 30 @40182 has 151 MA's), (Start: 34 @40170 has 2 MA's), (Start: 53 @40149 has 1 MA's), (59, 40098), (62, 40083), (65, 40062), (68, 40032), (73, 40002),

Gene: Blizzard_66 Start: 43819, Stop: 44061, Start Num: 51
Candidate Starts for Blizzard_66:
(Start: 51 @43819 has 136 MA's), (64, 43909), (80, 44005), (84, 44029),

Gene: Bloom_112 Start: 87140, Stop: 87388, Start Num: 49
Candidate Starts for Bloom_112:
(Start: 49 @87140 has 30 MA's), (Start: 52 @87146 has 1 MA's), (Start: 53 @87152 has 1 MA's),

Gene: BluSpix_60 Start: 37016, Stop: 36717, Start Num: 28
Candidate Starts for BluSpix_60:
(Start: 28 @37016 has 47 MA's), (Start: 30 @37013 has 151 MA's), (Start: 34 @37001 has 2 MA's), (Start: 47 @36968 has 38 MA's), (Start: 53 @36950 has 1 MA's), (59, 36899), (62, 36884), (65, 36863), (68, 36833), (73, 36803), (88, 36728),

Gene: Blue_61 Start: 41818, Stop: 41588, Start Num: 53
Candidate Starts for Blue_61:
(Start: 28 @41857 has 47 MA's), (Start: 30 @41854 has 151 MA's), (Start: 34 @41842 has 2 MA's), (Start: 53 @41818 has 1 MA's), (58, 41773), (62, 41755), (68, 41704), (83, 41629), (88, 41599),

Gene: Bob3_63 Start: 41074, Stop: 40778, Start Num: 30
Candidate Starts for Bob3_63:
(Start: 28 @41077 has 47 MA's), (Start: 30 @41074 has 151 MA's), (Start: 34 @41062 has 2 MA's), (Start: 47 @41029 has 38 MA's), (Start: 53 @41011 has 1 MA's), (59, 40960), (62, 40945), (65, 40924), (68, 40894), (73, 40864), (88, 40789),

Gene: Bobquesha_71 Start: 42269, Stop: 42532, Start Num: 46
Candidate Starts for Bobquesha_71:
(11, 42086), (Start: 46 @42269 has 17 MA's), (64, 42371), (78, 42467), (88, 42521),

Gene: Boiiii_66 Start: 43821, Stop: 44063, Start Num: 51
Candidate Starts for Boiiii_66:
(Start: 51 @43821 has 136 MA's), (64, 43911), (80, 44007), (84, 44031),

Gene: Boilgate_63 Start: 45255, Stop: 45500, Start Num: 46
Candidate Starts for Boilgate_63:
(Start: 46 @45255 has 17 MA's), (Start: 52 @45270 has 1 MA's), (87, 45486), (88, 45489),

Gene: Bones_61 Start: 42258, Stop: 41962, Start Num: 30
Candidate Starts for Bones_61:

(Start: 28 @42261 has 47 MA's), (Start: 30 @42258 has 151 MA's), (Start: 34 @42246 has 2 MA's), (Start: 47 @42213 has 38 MA's), (Start: 53 @42195 has 1 MA's), (59, 42144), (62, 42129), (65, 42108), (68, 42078), (73, 42048), (88, 41973),

Gene: Bongo_39 Start: 32762, Stop: 33040, Start Num: 43
Candidate Starts for Bongo_39:
(18, 32651), (Start: 43 @32762 has 12 MA's), (Start: 49 @32780 has 30 MA's), (59, 32843), (72, 32930), (73, 32939), (76, 32948),

Gene: BoostSeason_69 Start: 45667, Stop: 45912, Start Num: 51
Candidate Starts for BoostSeason_69:
(29, 45610), (32, 45616), (Start: 51 @45667 has 136 MA's), (64, 45757), (74, 45826), (80, 45850), (89, 45904),

Gene: Bosection6_49 Start: 33918, Stop: 34166, Start Num: 47
Candidate Starts for Bosection6_49:
(2, 33354), (5, 33573), (10, 33711), (12, 33744), (23, 33840), (Start: 47 @33918 has 38 MA's), (Start: 52 @33930 has 1 MA's), (64, 34014), (73, 34080), (74, 34083),

Gene: Bricole_39 Start: 32748, Stop: 33026, Start Num: 43
Candidate Starts for Bricole_39:
(18, 32637), (Start: 43 @32748 has 12 MA's), (Start: 49 @32766 has 30 MA's), (59, 32829), (72, 32916), (73, 32925), (76, 32934),

Gene: Briton15_66 Start: 42878, Stop: 42582, Start Num: 30
Candidate Starts for Briton15_66:
(Start: 28 @42881 has 47 MA's), (Start: 30 @42878 has 151 MA's), (Start: 34 @42866 has 2 MA's), (Start: 47 @42833 has 38 MA's), (Start: 53 @42815 has 1 MA's), (59, 42764), (62, 42749), (65, 42728), (68, 42698), (73, 42668),

Gene: Bruns_63 Start: 40455, Stop: 40159, Start Num: 30
Candidate Starts for Bruns_63:
(Start: 28 @40458 has 47 MA's), (Start: 30 @40455 has 151 MA's), (Start: 34 @40443 has 2 MA's), (Start: 47 @40410 has 38 MA's), (Start: 53 @40392 has 1 MA's), (59, 40341), (62, 40326), (65, 40305), (68, 40275), (73, 40245), (88, 40170),

Gene: Burton_63 Start: 42834, Stop: 42568, Start Num: 30
Candidate Starts for Burton_63:
(Start: 28 @42837 has 47 MA's), (Start: 30 @42834 has 151 MA's), (Start: 34 @42822 has 2 MA's), (Start: 53 @42801 has 1 MA's), (59, 42750), (62, 42735), (65, 42714), (68, 42684), (73, 42654), (88, 42579),

Gene: Butters_53 Start: 35513, Stop: 35761, Start Num: 47
Candidate Starts for Butters_53:
(12, 35339), (23, 35435), (Start: 47 @35513 has 38 MA's), (Start: 52 @35525 has 1 MA's), (64, 35609), (73, 35675), (74, 35678),

Gene: Buttons_59 Start: 38725, Stop: 38456, Start Num: 28
Candidate Starts for Buttons_59:
(Start: 28 @38725 has 47 MA's), (Start: 30 @38722 has 151 MA's), (Start: 34 @38710 has 2 MA's), (Start: 53 @38689 has 1 MA's), (59, 38638), (62, 38623), (65, 38602), (68, 38572), (73, 38542),

Gene: Bxb1_56 Start: 39835, Stop: 39569, Start Num: 30

Candidate Starts for Bxb1_56:
(Start: 28 @39838 has 47 MA's), (Start: 30 @39835 has 151 MA's), (Start: 34 @39823 has 2 MA's), (Start: 53 @39802 has 1 MA's), (59, 39751), (62, 39736), (65, 39715), (68, 39685), (73, 39655), (88, 39580),

Gene: CREW_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for CREW_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: CactusRose_62 Start: 41174, Stop: 40908, Start Num: 30
Candidate Starts for CactusRose_62:
(Start: 28 @41177 has 47 MA's), (Start: 30 @41174 has 151 MA's), (Start: 34 @41162 has 2 MA's), (Start: 53 @41141 has 1 MA's), (59, 41090), (62, 41075), (65, 41054), (68, 41024), (73, 40994),

Gene: CallaLilly_66 Start: 43545, Stop: 43787, Start Num: 51
Candidate Starts for CallaLilly_66:
(Start: 51 @43545 has 136 MA's), (64, 43635), (80, 43731), (84, 43755),

Gene: Cappuccino_31 Start: 22494, Stop: 22760, Start Num: 41
Candidate Starts for Cappuccino_31:
(Start: 41 @22494 has 18 MA's), (45, 22503), (Start: 51 @22509 has 136 MA's), (61, 22572),

Gene: Capricorn_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for Capricorn_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: Carcharodon_50 Start: 34905, Stop: 35153, Start Num: 47
Candidate Starts for Carcharodon_50:
(3, 34491), (10, 34698), (12, 34731), (23, 34827), (Start: 47 @34905 has 38 MA's), (Start: 52 @34917 has 1 MA's), (Start: 53 @34923 has 1 MA's), (64, 35001), (73, 35067), (74, 35070),

Gene: Carlyle_62 Start: 39960, Stop: 39694, Start Num: 30
Candidate Starts for Carlyle_62:
(Start: 28 @39963 has 47 MA's), (Start: 30 @39960 has 151 MA's), (Start: 34 @39948 has 2 MA's), (Start: 53 @39924 has 1 MA's), (58, 39879), (62, 39861), (67, 39813), (68, 39810), (83, 39735), (88, 39705),

Gene: CartmannCramer_60 Start: 42923, Stop: 42648, Start Num: 30
Candidate Starts for CartmannCramer_60:
(Start: 28 @42926 has 47 MA's), (Start: 30 @42923 has 151 MA's), (Start: 34 @42911 has 2 MA's), (Start: 53 @42881 has 1 MA's), (59, 42830), (62, 42815), (65, 42794), (68, 42764), (73, 42734),

Gene: CaseJules_68 Start: 43819, Stop: 44061, Start Num: 51
Candidate Starts for CaseJules_68:
(Start: 51 @43819 has 136 MA's), (64, 43909), (80, 44005), (84, 44029),

Gene: Cassia_34 Start: 25274, Stop: 25540, Start Num: 40
Candidate Starts for Cassia_34:
(Start: 40 @25274 has 13 MA's), (74, 25457),

Gene: CatBus_58 Start: 40961, Stop: 40695, Start Num: 30
Candidate Starts for CatBus_58:

(Start: 28 @40964 has 47 MA's), (Start: 30 @40961 has 151 MA's), (Start: 34 @40949 has 2 MA's), (Start: 53 @40928 has 1 MA's), (59, 40877), (62, 40862), (65, 40841), (68, 40811), (73, 40781),

Gene: Chanagan_56 Start: 38816, Stop: 38541, Start Num: 30
Candidate Starts for Chanagan_56:
(Start: 28 @38819 has 47 MA's), (Start: 30 @38816 has 151 MA's), (Start: 34 @38804 has 2 MA's), (Start: 53 @38774 has 1 MA's), (59, 38723), (62, 38708), (65, 38687), (68, 38657), (73, 38627),

Gene: Chancellor_70 Start: 43377, Stop: 43640, Start Num: 46
Candidate Starts for Chancellor_70:
(Start: 46 @43377 has 17 MA's), (Start: 52 @43392 has 1 MA's), (64, 43479), (78, 43575), (88, 43629),

Gene: Charlie_51 Start: 33657, Stop: 33905, Start Num: 47
Candidate Starts for Charlie_51:
(2, 33093), (5, 33312), (10, 33450), (12, 33483), (23, 33579), (Start: 47 @33657 has 38 MA's), (Start: 52 @33669 has 1 MA's), (64, 33753), (73, 33819), (74, 33822),

Gene: CheetoDust_66 Start: 43333, Stop: 43575, Start Num: 51
Candidate Starts for CheetoDust_66:
(Start: 30 @43288 has 151 MA's), (Start: 51 @43333 has 136 MA's), (64, 43423), (80, 43519), (84, 43543),

Gene: Cheetobro_70 Start: 43374, Stop: 43637, Start Num: 46
Candidate Starts for Cheetobro_70:
(Start: 46 @43374 has 17 MA's), (Start: 52 @43389 has 1 MA's), (64, 43476), (78, 43572), (88, 43626),

Gene: Chewbacca_52 Start: 34905, Stop: 35153, Start Num: 47
Candidate Starts for Chewbacca_52:
(3, 34491), (10, 34698), (12, 34731), (23, 34827), (Start: 47 @34905 has 38 MA's), (Start: 52 @34917 has 1 MA's), (Start: 53 @34923 has 1 MA's), (64, 35001), (73, 35067), (74, 35070),

Gene: Chilliams_107 Start: 79905, Stop: 80147, Start Num: 49
Candidate Starts for Chilliams_107:
(33, 79857), (Start: 49 @79905 has 30 MA's), (64, 79995),

Gene: ChristmasHams_56 Start: 38811, Stop: 38536, Start Num: 30
Candidate Starts for ChristmasHams_56:
(Start: 28 @38814 has 47 MA's), (Start: 30 @38811 has 151 MA's), (Start: 34 @38799 has 2 MA's), (Start: 53 @38769 has 1 MA's), (59, 38718), (62, 38703), (65, 38682), (68, 38652), (73, 38622),

Gene: Ciao_60 Start: 40180, Stop: 39914, Start Num: 30
Candidate Starts for Ciao_60:
(Start: 28 @40183 has 47 MA's), (Start: 30 @40180 has 151 MA's), (Start: 34 @40168 has 2 MA's), (Start: 53 @40147 has 1 MA's), (59, 40096), (62, 40081), (65, 40060), (68, 40030), (73, 40000),

Gene: Clautastrophe_31 Start: 28784, Stop: 29050, Start Num: 49
Candidate Starts for Clautastrophe_31:
(Start: 49 @28784 has 30 MA's), (Start: 53 @28796 has 1 MA's), (55, 28829),

Gene: Clipper_70 Start: 44521, Stop: 44763, Start Num: 51
Candidate Starts for Clipper_70:
(Start: 51 @44521 has 136 MA's), (64, 44611), (80, 44707), (84, 44731),

Gene: Collard_58 Start: 40730, Stop: 40978, Start Num: 51
Candidate Starts for Collard_58:
(Start: 51 @40730 has 136 MA's), (69, 40862), (74, 40892), (82, 40925),

Gene: ConceptII_64 Start: 42246, Stop: 41980, Start Num: 30
Candidate Starts for ConceptII_64:
(Start: 28 @42249 has 47 MA's), (Start: 30 @42246 has 151 MA's), (Start: 34 @42234 has 2 MA's), (Start: 53 @42213 has 1 MA's), (59, 42162), (62, 42147), (65, 42126), (68, 42096), (73, 42066),

Gene: Corvo_63 Start: 42111, Stop: 41845, Start Num: 30
Candidate Starts for Corvo_63:
(Start: 28 @42114 has 47 MA's), (Start: 30 @42111 has 151 MA's), (Start: 34 @42099 has 2 MA's), (Start: 53 @42078 has 1 MA's), (59, 42027), (62, 42012), (65, 41991), (68, 41961), (73, 41931), (88, 41856),

Gene: Crispicous1_59 Start: 39995, Stop: 39699, Start Num: 30
Candidate Starts for Crispicous1_59:
(Start: 30 @39995 has 151 MA's), (Start: 34 @39983 has 2 MA's), (Start: 47 @39950 has 38 MA's), (Start: 53 @39932 has 1 MA's), (59, 39881), (62, 39866), (65, 39845), (68, 39815), (73, 39785),

Gene: Cueylyss_62 Start: 42458, Stop: 42162, Start Num: 30
Candidate Starts for Cueylyss_62:
(Start: 28 @42461 has 47 MA's), (Start: 30 @42458 has 151 MA's), (Start: 34 @42446 has 2 MA's), (Start: 47 @42413 has 38 MA's), (Start: 53 @42395 has 1 MA's), (59, 42344), (62, 42329), (65, 42308), (68, 42278), (73, 42248), (88, 42173),

Gene: Cyan_33 Start: 24752, Stop: 24994, Start Num: 40
Candidate Starts for Cyan_33:
(6, 24494), (Start: 40 @24752 has 13 MA's), (74, 24911),

Gene: DD5_60 Start: 41693, Stop: 41418, Start Num: 30
Candidate Starts for DD5_60:
(Start: 30 @41693 has 151 MA's), (Start: 34 @41681 has 2 MA's), (Start: 53 @41651 has 1 MA's), (59, 41600), (62, 41585), (65, 41564), (67, 41537), (68, 41534), (73, 41504), (88, 41429),

Gene: Dadosky_62 Start: 41083, Stop: 41331, Start Num: 51
Candidate Starts for Dadosky_62:
(Start: 51 @41083 has 136 MA's), (62, 41158), (72, 41230),

Gene: Dalmuri_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for Dalmuri_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: DanSyl44_73 Start: 44568, Stop: 44831, Start Num: 46
Candidate Starts for DanSyl44_73:
(Start: 46 @44568 has 17 MA's), (Start: 52 @44583 has 1 MA's), (64, 44670), (78, 44766), (88, 44820),

Gene: DartGoblin_68 Start: 44180, Stop: 44422, Start Num: 51
Candidate Starts for DartGoblin_68:
(Start: 51 @44180 has 136 MA's), (64, 44270), (80, 44366), (84, 44390),

Gene: DarthP_66 Start: 43967, Stop: 44206, Start Num: 51
Candidate Starts for DarthP_66:

(Start: 51 @43967 has 136 MA's), (64, 44057), (72, 44117),

Gene: Dartin_69 Start: 44123, Stop: 44362, Start Num: 51
Candidate Starts for Dartin_69:
(Start: 51 @44123 has 136 MA's), (64, 44213), (68, 44249), (71, 44267), (84, 44330),

Gene: Deby_67 Start: 44105, Stop: 44347, Start Num: 51
Candidate Starts for Deby_67:
(Start: 51 @44105 has 136 MA's), (64, 44195), (80, 44291), (84, 44315),

Gene: Devera_74 Start: 45458, Stop: 45700, Start Num: 51
Candidate Starts for Devera_74:
(Start: 51 @45458 has 136 MA's), (64, 45548), (80, 45644), (84, 45668),

Gene: Dexes_62 Start: 41896, Stop: 41630, Start Num: 30
Candidate Starts for Dexes_62:
(Start: 28 @41899 has 47 MA's), (Start: 30 @41896 has 151 MA's), (Start: 34 @41884 has 2 MA's), (Start: 53 @41863 has 1 MA's), (59, 41812), (62, 41797), (65, 41776), (68, 41746), (73, 41716), (88, 41641),

Gene: Diminimus_40 Start: 32761, Stop: 33039, Start Num: 43
Candidate Starts for Diminimus_40:
(18, 32650), (Start: 43 @32761 has 12 MA's), (Start: 49 @32779 has 30 MA's), (59, 32842), (72, 32929), (73, 32938), (76, 32947),

Gene: DirtDevil_60 Start: 40769, Stop: 40503, Start Num: 30
Candidate Starts for DirtDevil_60:
(Start: 28 @40772 has 47 MA's), (Start: 30 @40769 has 151 MA's), (Start: 34 @40757 has 2 MA's), (Start: 53 @40736 has 1 MA's), (59, 40685), (62, 40670), (65, 40649), (68, 40619), (73, 40589),

Gene: DismalFunk_69 Start: 46092, Stop: 46337, Start Num: 51
Candidate Starts for DismalFunk_69:
(29, 46035), (32, 46041), (Start: 51 @46092 has 136 MA's), (64, 46182), (68, 46218), (74, 46251),

Gene: DismalStressor_69 Start: 46092, Stop: 46337, Start Num: 51
Candidate Starts for DismalStressor_69:
(29, 46035), (32, 46041), (Start: 51 @46092 has 136 MA's), (64, 46182), (68, 46218), (74, 46251),

Gene: Dole_72 Start: 45461, Stop: 45703, Start Num: 51
Candidate Starts for Dole_72:
(Start: 51 @45461 has 136 MA's), (64, 45551), (80, 45647), (84, 45671),

Gene: Donkey_31 Start: 22496, Stop: 22762, Start Num: 41
Candidate Starts for Donkey_31:
(Start: 41 @22496 has 18 MA's), (45, 22505), (Start: 51 @22511 has 136 MA's), (61, 22574),

Gene: Doom_60 Start: 41667, Stop: 41392, Start Num: 30
Candidate Starts for Doom_60:
(Start: 28 @41670 has 47 MA's), (Start: 30 @41667 has 151 MA's), (Start: 34 @41655 has 2 MA's), (Start: 53 @41625 has 1 MA's), (59, 41574), (62, 41559), (65, 41538), (68, 41508), (73, 41478),

Gene: DoubleChamp_57 Start: 40730, Stop: 40978, Start Num: 51
Candidate Starts for DoubleChamp_57:

(Start: 51 @40730 has 136 MA's), (69, 40862), (74, 40892), (82, 40925),

Gene: Doughnut_69 Start: 45708, Stop: 45953, Start Num: 51
Candidate Starts for Doughnut_69:
(27, 45645), (Start: 51 @45708 has 136 MA's), (64, 45798), (74, 45867),

Gene: DrFeelGood_58 Start: 40034, Stop: 39777, Start Num: 42
Candidate Starts for DrFeelGood_58:
(Start: 42 @40034 has 10 MA's), (Start: 52 @40016 has 1 MA's), (Start: 53 @40010 has 1 MA's), (59, 39959), (62, 39944), (65, 39923), (68, 39893), (73, 39863),

Gene: DreamCatcher_65 Start: 41754, Stop: 41455, Start Num: 28
Candidate Starts for DreamCatcher_65:
(Start: 28 @41754 has 47 MA's), (Start: 30 @41751 has 151 MA's), (Start: 34 @41739 has 2 MA's), (Start: 47 @41706 has 38 MA's), (Start: 53 @41688 has 1 MA's), (59, 41637), (62, 41622), (65, 41601), (68, 41571), (73, 41541), (88, 41466),

Gene: Dreamboat_63 Start: 40328, Stop: 40062, Start Num: 30
Candidate Starts for Dreamboat_63:
(Start: 30 @40328 has 151 MA's), (Start: 34 @40316 has 2 MA's), (Start: 52 @40301 has 1 MA's), (Start: 53 @40295 has 1 MA's), (59, 40244), (62, 40229), (65, 40208), (68, 40178), (73, 40148), (88, 40073),

Gene: Dulcie_62 Start: 42668, Stop: 42411, Start Num: 42
Candidate Starts for Dulcie_62:
(Start: 42 @42668 has 10 MA's), (Start: 52 @42650 has 1 MA's), (Start: 53 @42644 has 1 MA's), (59, 42593), (62, 42578), (65, 42557), (68, 42527), (73, 42497),

Gene: Dulcita_40 Start: 32761, Stop: 33039, Start Num: 43
Candidate Starts for Dulcita_40:
(18, 32650), (Start: 43 @32761 has 12 MA's), (Start: 49 @32779 has 30 MA's), (59, 32842), (72, 32929), (73, 32938), (76, 32947),

Gene: Duplicity_50 Start: 34914, Stop: 35162, Start Num: 47
Candidate Starts for Duplicity_50:
(3, 34500), (10, 34707), (12, 34740), (23, 34836), (Start: 47 @34914 has 38 MA's), (Start: 52 @34926 has 1 MA's), (Start: 53 @34932 has 1 MA's), (64, 35010), (73, 35076), (74, 35079),

Gene: Durfee_66 Start: 43819, Stop: 44061, Start Num: 51
Candidate Starts for Durfee_66:
(Start: 51 @43819 has 136 MA's), (64, 43909), (80, 44005), (84, 44029),

Gene: Dussy_62 Start: 41689, Stop: 41423, Start Num: 30
Candidate Starts for Dussy_62:
(Start: 28 @41692 has 47 MA's), (Start: 30 @41689 has 151 MA's), (Start: 34 @41677 has 2 MA's), (Start: 53 @41656 has 1 MA's), (59, 41605), (62, 41590), (65, 41569), (68, 41539), (73, 41509),

Gene: Dynamix_64 Start: 40678, Stop: 40409, Start Num: 28
Candidate Starts for Dynamix_64:
(Start: 28 @40678 has 47 MA's), (Start: 30 @40675 has 151 MA's), (Start: 34 @40663 has 2 MA's), (Start: 53 @40642 has 1 MA's), (62, 40576), (65, 40555), (68, 40525), (73, 40495), (88, 40420),

Gene: EGUnicorn_48 Start: 33605, Stop: 33853, Start Num: 47

Candidate Starts for EGUnicorn_48:
(3, 33191), (10, 33398), (12, 33431), (23, 33527), (Start: 47 @33605 has 38 MA's), (Start: 52 @33617 has 1 MA's), (Start: 53 @33623 has 1 MA's), (64, 33701), (73, 33767), (74, 33770),

Gene: Edtherson_61 Start: 41661, Stop: 41386, Start Num: 30
Candidate Starts for Edtherson_61:
(Start: 28 @41664 has 47 MA's), (Start: 30 @41661 has 151 MA's), (Start: 34 @41649 has 2 MA's), (Start: 53 @41619 has 1 MA's), (59, 41568), (62, 41553), (65, 41532), (68, 41502), (73, 41472),

Gene: Edugator_59 Start: 42504, Stop: 42752, Start Num: 51
Candidate Starts for Edugator_59:
(Start: 51 @42504 has 136 MA's), (62, 42579), (72, 42651),

Gene: Efra2_72 Start: 44206, Stop: 44448, Start Num: 51
Candidate Starts for Efra2_72:
(22, 44128), (Start: 51 @44206 has 136 MA's), (64, 44296), (80, 44392),

Gene: Ekdilam_63 Start: 44192, Stop: 44431, Start Num: 51
Candidate Starts for Ekdilam_63:
(Start: 51 @44192 has 136 MA's), (Start: 53 @44201 has 1 MA's), (64, 44282),

Gene: Ellie_62 Start: 43425, Stop: 43667, Start Num: 51
Candidate Starts for Ellie_62:
(24, 43356), (Start: 51 @43425 has 136 MA's), (Start: 53 @43434 has 1 MA's), (59, 43485), (64, 43515), (80, 43611), (84, 43635),

Gene: Emerson_68 Start: 43939, Stop: 44181, Start Num: 51
Candidate Starts for Emerson_68:
(Start: 51 @43939 has 136 MA's), (64, 44029), (80, 44125), (84, 44149),

Gene: EnzoK_62 Start: 38636, Stop: 38361, Start Num: 30
Candidate Starts for EnzoK_62:
(Start: 28 @38639 has 47 MA's), (Start: 30 @38636 has 151 MA's), (Start: 34 @38624 has 2 MA's), (Start: 53 @38594 has 1 MA's), (59, 38543), (62, 38528), (65, 38507), (68, 38477), (73, 38447), (79, 38423), (88, 38372),

Gene: Eponine_72 Start: 44220, Stop: 44483, Start Num: 46
Candidate Starts for Eponine_72:
(Start: 46 @44220 has 17 MA's), (Start: 52 @44235 has 1 MA's), (64, 44322), (78, 44418), (86, 44463), (88, 44472),

Gene: Eraser_34 Start: 26614, Stop: 26871, Start Num: 40
Candidate Starts for Eraser_34:
(7, 26377), (8, 26386), (Start: 40 @26614 has 13 MA's), (56, 26662), (75, 26779),

Gene: Espresso_59 Start: 41111, Stop: 40833, Start Num: 28
Candidate Starts for Espresso_59:
(Start: 28 @41111 has 47 MA's), (Start: 30 @41108 has 151 MA's), (Start: 34 @41096 has 2 MA's), (Start: 53 @41066 has 1 MA's), (59, 41015), (62, 41000), (65, 40979), (68, 40949), (73, 40919),

Gene: Estes_45 Start: 34058, Stop: 34309, Start Num: 49
Candidate Starts for Estes_45:
(Start: 49 @34058 has 30 MA's), (64, 34151), (70, 34202), (71, 34205), (85, 34274),

Gene: Euphoria_60 Start: 40818, Stop: 40552, Start Num: 30
Candidate Starts for Euphoria_60:
(Start: 28 @40821 has 47 MA's), (Start: 30 @40818 has 151 MA's), (Start: 34 @40806 has 2 MA's), (Start: 53 @40785 has 1 MA's), (59, 40734), (62, 40719), (68, 40668), (83, 40593), (88, 40563),

Gene: Eyeball_64 Start: 42166, Stop: 41900, Start Num: 30
Candidate Starts for Eyeball_64:
(Start: 28 @42169 has 47 MA's), (Start: 30 @42166 has 151 MA's), (Start: 34 @42154 has 2 MA's), (Start: 53 @42133 has 1 MA's), (59, 42082), (62, 42067), (65, 42046), (66, 42025), (68, 42016), (73, 41986), (88, 41911),

Gene: Fajezeel_63 Start: 40885, Stop: 40616, Start Num: 28
Candidate Starts for Fajezeel_63:
(Start: 28 @40885 has 47 MA's), (Start: 30 @40882 has 151 MA's), (Start: 34 @40870 has 2 MA's), (Start: 53 @40849 has 1 MA's), (59, 40798), (62, 40783), (65, 40762), (68, 40732), (73, 40702), (88, 40627),

Gene: Fascinus_56 Start: 40671, Stop: 40402, Start Num: 28
Candidate Starts for Fascinus_56:
(Start: 28 @40671 has 47 MA's), (Start: 30 @40668 has 151 MA's), (Start: 34 @40656 has 2 MA's), (Start: 53 @40635 has 1 MA's), (59, 40584), (62, 40569), (65, 40548), (68, 40518), (73, 40488),

Gene: Fefferhead_64 Start: 43334, Stop: 43576, Start Num: 51
Candidate Starts for Fefferhead_64:
(24, 43265), (Start: 51 @43334 has 136 MA's), (Start: 53 @43343 has 1 MA's), (59, 43394), (64, 43424), (80, 43520),

Gene: Fenn_64 Start: 42653, Stop: 42378, Start Num: 30
Candidate Starts for Fenn_64:
(Start: 30 @42653 has 151 MA's), (Start: 34 @42641 has 2 MA's), (Start: 53 @42611 has 1 MA's), (59, 42560), (62, 42545), (65, 42524), (66, 42503), (68, 42494), (73, 42464), (88, 42389),

Gene: Feyre_63 Start: 44492, Stop: 44740, Start Num: 51
Candidate Starts for Feyre_63:
(Start: 51 @44492 has 136 MA's), (62, 44567), (72, 44639), (77, 44663),

Gene: Findley_69 Start: 46086, Stop: 46331, Start Num: 51
Candidate Starts for Findley_69:
(27, 46023), (Start: 51 @46086 has 136 MA's), (64, 46176), (74, 46245),

Gene: Finnry_31 Start: 28788, Stop: 29054, Start Num: 49
Candidate Starts for Finnry_31:
(Start: 49 @28788 has 30 MA's), (Start: 53 @28800 has 1 MA's), (55, 28833),

Gene: Fionnbharth_70 Start: 43618, Stop: 43881, Start Num: 46
Candidate Starts for Fionnbharth_70:
(Start: 46 @43618 has 17 MA's), (Start: 52 @43633 has 1 MA's), (64, 43720), (78, 43816), (88, 43870),

Gene: FloraSnap32_105 Start: 86040, Stop: 86288, Start Num: 49
Candidate Starts for FloraSnap32_105:
(Start: 49 @86040 has 30 MA's), (Start: 52 @86046 has 1 MA's), (Start: 53 @86052 has 1 MA's),

Gene: Forsytheast_63 Start: 40623, Stop: 40327, Start Num: 30
Candidate Starts for Forsytheast_63:
(Start: 28 @40626 has 47 MA's), (Start: 30 @40623 has 151 MA's), (Start: 34 @40611 has 2 MA's), (Start: 47 @40578 has 38 MA's), (Start: 53 @40560 has 1 MA's), (59, 40509), (62, 40494), (65, 40473), (68, 40443), (73, 40413), (88, 40338),

Gene: Francis47_60 Start: 41735, Stop: 41460, Start Num: 30
Candidate Starts for Francis47_60:
(Start: 28 @41738 has 47 MA's), (Start: 30 @41735 has 151 MA's), (Start: 34 @41723 has 2 MA's), (Start: 53 @41693 has 1 MA's), (59, 41642), (62, 41627), (65, 41606), (68, 41576), (73, 41546),

Gene: FreakyGoo_40 Start: 32780, Stop: 33040, Start Num: 49
Candidate Starts for FreakyGoo_40:
(18, 32651), (Start: 43 @32762 has 12 MA's), (Start: 49 @32780 has 30 MA's), (59, 32843), (72, 32930), (73, 32939), (76, 32948),

Gene: Froghopper_60 Start: 40239, Stop: 39964, Start Num: 30
Candidate Starts for Froghopper_60:
(Start: 28 @40242 has 47 MA's), (Start: 30 @40239 has 151 MA's), (Start: 34 @40227 has 2 MA's), (Start: 53 @40197 has 1 MA's), (59, 40146), (62, 40131), (65, 40110), (68, 40080), (73, 40050), (88, 39975),

Gene: FrostedClock_108 Start: 87337, Stop: 87585, Start Num: 49
Candidate Starts for FrostedClock_108:
(Start: 49 @87337 has 30 MA's), (Start: 52 @87343 has 1 MA's), (Start: 53 @87349 has 1 MA's),

Gene: Fulbright_49 Start: 33994, Stop: 34242, Start Num: 47
Candidate Starts for Fulbright_49:
(3, 33580), (10, 33787), (12, 33820), (23, 33916), (Start: 47 @33994 has 38 MA's), (Start: 52 @34006 has 1 MA's), (Start: 53 @34012 has 1 MA's), (64, 34090), (73, 34156), (74, 34159),

Gene: Fushigi_58 Start: 39205, Stop: 38936, Start Num: 28
Candidate Starts for Fushigi_58:
(Start: 28 @39205 has 47 MA's), (Start: 30 @39202 has 151 MA's), (Start: 34 @39190 has 2 MA's), (Start: 53 @39169 has 1 MA's), (59, 39118), (62, 39103), (65, 39082), (68, 39052), (73, 39022),

Gene: GMonster_59 Start: 40681, Stop: 40385, Start Num: 30
Candidate Starts for GMonster_59:
(Start: 28 @40684 has 47 MA's), (Start: 30 @40681 has 151 MA's), (Start: 34 @40669 has 2 MA's), (Start: 47 @40636 has 38 MA's), (Start: 53 @40618 has 1 MA's), (59, 40567), (62, 40552), (65, 40531), (68, 40501), (73, 40471),

Gene: Gachnar_62 Start: 41366, Stop: 41091, Start Num: 30
Candidate Starts for Gachnar_62:
(25, 41390), (Start: 28 @41369 has 47 MA's), (Start: 30 @41366 has 151 MA's), (Start: 34 @41354 has 2 MA's), (59, 41273), (62, 41258), (65, 41237), (68, 41207), (73, 41177), (88, 41102),

Gene: GageAP_63 Start: 41646, Stop: 41380, Start Num: 30
Candidate Starts for GageAP_63:
(Start: 28 @41649 has 47 MA's), (Start: 30 @41646 has 151 MA's), (Start: 34 @41634 has 2 MA's), (Start: 53 @41613 has 1 MA's), (59, 41562), (62, 41547), (65, 41526), (68, 41496), (73, 41466), (88, 41391),

Gene: Gambol_31 Start: 22494, Stop: 22760, Start Num: 41
Candidate Starts for Gambol_31:
(Start: 41 @22494 has 18 MA's), (45, 22503), (Start: 51 @22509 has 136 MA's), (61, 22572),

Gene: Gandalf20_64 Start: 42393, Stop: 42118, Start Num: 30
Candidate Starts for Gandalf20_64:
(Start: 28 @42396 has 47 MA's), (Start: 30 @42393 has 151 MA's), (Start: 34 @42381 has 2 MA's), (Start: 53 @42351 has 1 MA's), (59, 42300), (62, 42285), (65, 42264), (68, 42234), (73, 42204),

Gene: Ganymede_66 Start: 43845, Stop: 44087, Start Num: 51
Candidate Starts for Ganymede_66:
(Start: 51 @43845 has 136 MA's), (64, 43935), (80, 44031), (84, 44055),

Gene: GardenSalsa_44 Start: 33882, Stop: 34133, Start Num: 49
Candidate Starts for GardenSalsa_44:
(Start: 49 @33882 has 30 MA's), (70, 34026), (71, 34029), (74, 34044), (85, 34098),

Gene: GenevaB15_44 Start: 33930, Stop: 34181, Start Num: 49
Candidate Starts for GenevaB15_44:
(Start: 49 @33930 has 30 MA's), (64, 34023), (70, 34074), (71, 34077), (74, 34092), (85, 34146),

Gene: Gengar_60 Start: 42478, Stop: 42726, Start Num: 51
Candidate Starts for Gengar_60:
(Start: 51 @42478 has 136 MA's), (60, 42541),

Gene: Geraldini_69 Start: 44501, Stop: 44743, Start Num: 51
Candidate Starts for Geraldini_69:
(Start: 51 @44501 has 136 MA's), (64, 44591), (80, 44687), (84, 44711),

Gene: Gex_50 Start: 34921, Stop: 35169, Start Num: 47
Candidate Starts for Gex_50:
(3, 34507), (10, 34714), (12, 34747), (23, 34843), (Start: 47 @34921 has 38 MA's), (Start: 52 @34933 has 1 MA's), (Start: 53 @34939 has 1 MA's), (64, 35017), (73, 35083), (74, 35086),

Gene: Giorgio_31 Start: 22596, Stop: 22862, Start Num: 41
Candidate Starts for Giorgio_31:
(Start: 41 @22596 has 18 MA's), (Start: 51 @22611 has 136 MA's), (61, 22674), (81, 22794),

Gene: Glaske16_40 Start: 32761, Stop: 33039, Start Num: 43
Candidate Starts for Glaske16_40:
(18, 32650), (Start: 43 @32761 has 12 MA's), (Start: 49 @32779 has 30 MA's), (59, 32842), (72, 32929), (73, 32938), (76, 32947),

Gene: GoldenEssence_94 Start: 80932, Stop: 81180, Start Num: 49
Candidate Starts for GoldenEssence_94:
(Start: 49 @80932 has 30 MA's), (Start: 52 @80938 has 1 MA's), (Start: 53 @80944 has 1 MA's),

Gene: Gompeii16_61 Start: 42810, Stop: 42544, Start Num: 30
Candidate Starts for Gompeii16_61:
(Start: 28 @42813 has 47 MA's), (Start: 30 @42810 has 151 MA's), (Start: 34 @42798 has 2 MA's), (Start: 53 @42777 has 1 MA's), (59, 42726), (62, 42711), (65, 42690), (68, 42660), (73, 42630),

Gene: Graduation_66 Start: 42500, Stop: 42234, Start Num: 30

Candidate Starts for Graduation_66:
(Start: 28 @42503 has 47 MA's), (Start: 30 @42500 has 151 MA's), (Start: 34 @42488 has 2 MA's), (Start: 53 @42467 has 1 MA's), (59, 42416), (62, 42401), (65, 42380), (68, 42350), (73, 42320), (88, 42245),

Gene: GrecoEtereo_61 Start: 40288, Stop: 40022, Start Num: 30
Candidate Starts for GrecoEtereo_61:
(Start: 28 @40291 has 47 MA's), (Start: 30 @40288 has 151 MA's), (Start: 34 @40276 has 2 MA's), (Start: 53 @40255 has 1 MA's), (59, 40204), (62, 40189), (65, 40168), (68, 40138), (73, 40108),

Gene: Greg_63 Start: 40885, Stop: 40616, Start Num: 28
Candidate Starts for Greg_63:
(Start: 28 @40885 has 47 MA's), (Start: 30 @40882 has 151 MA's), (Start: 34 @40870 has 2 MA's), (Start: 53 @40849 has 1 MA's), (59, 40798), (62, 40783), (65, 40762), (68, 40732), (73, 40702), (88, 40627),

Gene: GroundGoblin_59 Start: 40911, Stop: 40645, Start Num: 30
Candidate Starts for GroundGoblin_59:
(Start: 28 @40914 has 47 MA's), (Start: 30 @40911 has 151 MA's), (Start: 34 @40899 has 2 MA's), (Start: 53 @40878 has 1 MA's), (59, 40827), (62, 40812), (65, 40791), (68, 40761), (73, 40731),

Gene: Guanica15_71 Start: 43944, Stop: 44186, Start Num: 51
Candidate Starts for Guanica15_71:
(22, 43866), (Start: 51 @43944 has 136 MA's), (80, 44130),

Gene: Guillsminger_61 Start: 42432, Stop: 42680, Start Num: 51
Candidate Starts for Guillsminger_61:
(Start: 51 @42432 has 136 MA's), (62, 42507), (72, 42579),

Gene: Gumpizza_31 Start: 22588, Stop: 22854, Start Num: 41
Candidate Starts for Gumpizza_31:
(Start: 41 @22588 has 18 MA's), (Start: 51 @22603 has 136 MA's), (61, 22666), (81, 22786),

Gene: Gwendoluna_65 Start: 43032, Stop: 42778, Start Num: 39
Candidate Starts for Gwendoluna_65:
(Start: 35 @43044 has 6 MA's), (Start: 39 @43032 has 4 MA's), (Start: 53 @43011 has 1 MA's), (59, 42960), (62, 42945), (65, 42924), (66, 42903), (68, 42894), (73, 42864),

Gene: Gyzlar_57 Start: 38964, Stop: 38710, Start Num: 34
Candidate Starts for Gyzlar_57:
(Start: 30 @38976 has 151 MA's), (Start: 34 @38964 has 2 MA's), (Start: 53 @38943 has 1 MA's), (59, 38892), (62, 38877), (65, 38856), (68, 38826), (73, 38796), (88, 38721),

Gene: Halsey_31 Start: 22590, Stop: 22856, Start Num: 41
Candidate Starts for Halsey_31:
(Start: 41 @22590 has 18 MA's), (Start: 51 @22605 has 136 MA's), (61, 22668), (63, 22686), (81, 22788),

Gene: Hami1_57 Start: 36945, Stop: 36679, Start Num: 30
Candidate Starts for Hami1_57:
(Start: 28 @36948 has 47 MA's), (Start: 30 @36945 has 151 MA's), (Start: 34 @36933 has 2 MA's), (Start: 53 @36912 has 1 MA's), (59, 36861), (62, 36846), (65, 36825), (68, 36795), (73, 36765),

Gene: Hammy_66 Start: 43955, Stop: 44194, Start Num: 51
Candidate Starts for Hammy_66:
(Start: 51 @43955 has 136 MA's), (64, 44045), (72, 44105),

Gene: HanShotFirst_63 Start: 42830, Stop: 42531, Start Num: 28
Candidate Starts for HanShotFirst_63:
(Start: 28 @42830 has 47 MA's), (Start: 30 @42827 has 151 MA's), (Start: 34 @42815 has 2 MA's), (Start: 47 @42782 has 38 MA's), (Start: 53 @42764 has 1 MA's), (59, 42713), (62, 42698), (65, 42677), (68, 42647), (73, 42617),

Gene: Hanako_55 Start: 36173, Stop: 36421, Start Num: 47
Candidate Starts for Hanako_55:
(Start: 47 @36173 has 38 MA's), (Start: 52 @36185 has 1 MA's), (73, 36335), (74, 36338), (88, 36413),

Gene: HarryOW_60 Start: 40966, Stop: 40688, Start Num: 28
Candidate Starts for HarryOW_60:
(Start: 28 @40966 has 47 MA's), (Start: 30 @40963 has 151 MA's), (Start: 34 @40951 has 2 MA's), (Start: 53 @40921 has 1 MA's), (59, 40870), (62, 40855), (65, 40834), (68, 40804), (73, 40774),

Gene: HedwigODU_66 Start: 43467, Stop: 43709, Start Num: 51
Candidate Starts for HedwigODU_66:
(Start: 51 @43467 has 136 MA's), (64, 43557), (80, 43653), (84, 43677),

Gene: Heftyboy_61 Start: 42799, Stop: 43047, Start Num: 51
Candidate Starts for Heftyboy_61:
(Start: 51 @42799 has 136 MA's), (62, 42874), (72, 42946), (77, 42970),

Gene: Hermia_60 Start: 40961, Stop: 40695, Start Num: 30
Candidate Starts for Hermia_60:
(Start: 28 @40964 has 47 MA's), (Start: 30 @40961 has 151 MA's), (Start: 34 @40949 has 2 MA's), (Start: 53 @40928 has 1 MA's), (59, 40877), (62, 40862), (65, 40841), (68, 40811), (73, 40781),

Gene: HermioneGrange_64 Start: 42295, Stop: 41999, Start Num: 30
Candidate Starts for HermioneGrange_64:
(Start: 28 @42298 has 47 MA's), (Start: 30 @42295 has 151 MA's), (Start: 34 @42283 has 2 MA's), (Start: 47 @42250 has 38 MA's), (Start: 53 @42232 has 1 MA's), (59, 42181), (62, 42166), (65, 42145), (68, 42115), (73, 42085), (88, 42010),

Gene: Homines_54 Start: 37291, Stop: 37025, Start Num: 30
Candidate Starts for Homines_54:
(Start: 28 @37294 has 47 MA's), (Start: 30 @37291 has 151 MA's), (Start: 34 @37279 has 2 MA's), (Start: 53 @37258 has 1 MA's), (59, 37207), (62, 37192), (65, 37171), (68, 37141), (73, 37111), (88, 37036),

Gene: Homura_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for Homura_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: Hope4ever_63 Start: 41279, Stop: 41004, Start Num: 30
Candidate Starts for Hope4ever_63:
(Start: 28 @41282 has 47 MA's), (Start: 30 @41279 has 151 MA's), (Start: 34 @41267 has 2 MA's), (Start: 53 @41237 has 1 MA's), (59, 41186), (62, 41171), (65, 41150), (68, 41120), (73, 41090), (88, 41015),

Gene: Hyperbowlee_66 Start: 43819, Stop: 44061, Start Num: 51
Candidate Starts for Hyperbowlee_66:
(Start: 51 @43819 has 136 MA's), (64, 43909), (80, 44005), (84, 44029),

Gene: ILeeKay_64 Start: 41170, Stop: 40895, Start Num: 30
Candidate Starts for ILeeKay_64:
(Start: 28 @41173 has 47 MA's), (Start: 30 @41170 has 151 MA's), (Start: 34 @41158 has 2 MA's), (59, 41077), (62, 41062), (65, 41041), (68, 41011), (73, 40981),

Gene: IPhane7_39 Start: 32762, Stop: 33040, Start Num: 43
Candidate Starts for IPhane7_39:
(18, 32651), (Start: 43 @32762 has 12 MA's), (Start: 49 @32780 has 30 MA's), (59, 32843), (72, 32930), (73, 32939), (76, 32948),

Gene: Ichabod_66 Start: 42392, Stop: 42126, Start Num: 30
Candidate Starts for Ichabod_66:
(Start: 28 @42395 has 47 MA's), (Start: 30 @42392 has 151 MA's), (Start: 34 @42380 has 2 MA's), (Start: 53 @42359 has 1 MA's), (59, 42308), (62, 42293), (65, 42272), (68, 42242), (73, 42212), (88, 42137),

Gene: IgnatiusPatJac_62 Start: 40958, Stop: 40662, Start Num: 30
Candidate Starts for IgnatiusPatJac_62:
(Start: 28 @40961 has 47 MA's), (Start: 30 @40958 has 151 MA's), (Start: 34 @40946 has 2 MA's), (Start: 47 @40913 has 38 MA's), (Start: 53 @40895 has 1 MA's), (59, 40844), (62, 40829), (65, 40808), (68, 40778), (73, 40748), (88, 40673),

Gene: Illumine_72 Start: 45460, Stop: 45702, Start Num: 51
Candidate Starts for Illumine_72:
(Start: 51 @45460 has 136 MA's), (64, 45550), (80, 45646), (84, 45670),

Gene: Impisi_56 Start: 35970, Stop: 36218, Start Num: 47
Candidate Starts for Impisi_56:
(Start: 47 @35970 has 38 MA's), (Start: 52 @35982 has 1 MA's), (64, 36066), (73, 36132), (74, 36135), (88, 36210),

Gene: Inky_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for Inky_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: InvictusManeo_58 Start: 40773, Stop: 41021, Start Num: 51
Candidate Starts for InvictusManeo_58:
(Start: 51 @40773 has 136 MA's), (69, 40905), (74, 40935), (82, 40968),

Gene: Inyanga_57 Start: 41026, Stop: 40760, Start Num: 30
Candidate Starts for Inyanga_57:
(Start: 28 @41029 has 47 MA's), (Start: 30 @41026 has 151 MA's), (Start: 34 @41014 has 2 MA's), (Start: 53 @40993 has 1 MA's), (59, 40942), (62, 40927), (65, 40906), (68, 40876), (73, 40846), (88, 40771),

Gene: Iqorha_57 Start: 41025, Stop: 40759, Start Num: 30
Candidate Starts for Iqorha_57:

(Start: 28 @41028 has 47 MA's), (Start: 30 @41025 has 151 MA's), (Start: 34 @41013 has 2 MA's), (Start: 53 @40992 has 1 MA's), (59, 40941), (62, 40926), (65, 40905), (68, 40875), (73, 40845), (88, 40770),

Gene: Iter_34 Start: 24797, Stop: 25063, Start Num: 40
Candidate Starts for Iter_34:
(Start: 40 @24797 has 13 MA's), (74, 24980),

Gene: IttyBittyPiggy_33 Start: 24853, Stop: 25107, Start Num: 38
Candidate Starts for IttyBittyPiggy_33:
(6, 24598), (9, 24634), (Start: 38 @24853 has 3 MA's),

Gene: Izel_40 Start: 32761, Stop: 33039, Start Num: 43
Candidate Starts for Izel_40:
(18, 32650), (Start: 43 @32761 has 12 MA's), (Start: 49 @32779 has 30 MA's), (59, 32842), (72, 32929), (73, 32938), (76, 32947),

Gene: JAWS_67 Start: 43898, Stop: 44140, Start Num: 51
Candidate Starts for JAWS_67:
(Start: 51 @43898 has 136 MA's), (64, 43988), (80, 44084), (84, 44108),

Gene: JC27_65 Start: 41732, Stop: 41466, Start Num: 30
Candidate Starts for JC27_65:
(Start: 30 @41732 has 151 MA's), (Start: 34 @41720 has 2 MA's), (Start: 38 @41705 has 3 MA's), (Start: 53 @41699 has 1 MA's), (59, 41648), (62, 41633), (65, 41612), (68, 41582), (73, 41552),

Gene: Jamie19_49 Start: 34464, Stop: 34712, Start Num: 47
Candidate Starts for Jamie19_49:
(Start: 47 @34464 has 38 MA's), (Start: 52 @34476 has 1 MA's), (73, 34626), (74, 34629), (88, 34704),

Gene: Jarvi_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for Jarvi_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: Jasper_62 Start: 40214, Stop: 39948, Start Num: 30
Candidate Starts for Jasper_62:
(Start: 30 @40214 has 151 MA's), (Start: 34 @40202 has 2 MA's), (Start: 52 @40187 has 1 MA's), (Start: 53 @40181 has 1 MA's), (59, 40130), (62, 40115), (65, 40094), (68, 40064), (73, 40034), (88, 39959),

Gene: Jayhawk_68 Start: 43965, Stop: 44207, Start Num: 51
Candidate Starts for Jayhawk_68:
(Start: 51 @43965 has 136 MA's), (64, 44055), (80, 44151), (84, 44175),

Gene: Jeckyll_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for Jeckyll_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: Jerm2_64 Start: 42536, Stop: 42270, Start Num: 30
Candidate Starts for Jerm2_64:
(Start: 28 @42539 has 47 MA's), (Start: 30 @42536 has 151 MA's), (Start: 34 @42524 has 2 MA's), (Start: 53 @42503 has 1 MA's), (59, 42452), (62, 42437), (65, 42416), (68, 42386), (73, 42356), (88, 42281),

Gene: Jorgensen_65 Start: 41384, Stop: 41109, Start Num: 30
Candidate Starts for Jorgensen_65:
(Start: 28 @41387 has 47 MA's), (Start: 30 @41384 has 151 MA's), (Start: 34 @41372 has 2 MA's), (Start: 53 @41342 has 1 MA's), (59, 41291), (62, 41276), (65, 41255), (68, 41225), (73, 41195), (88, 41120),

Gene: Joy99_66 Start: 43551, Stop: 43793, Start Num: 51
Candidate Starts for Joy99_66:
(Start: 51 @43551 has 136 MA's), (64, 43641), (80, 43737), (84, 43761),

Gene: Jstan_36 Start: 26608, Stop: 26865, Start Num: 40
Candidate Starts for Jstan_36:
(7, 26371), (8, 26380), (Start: 40 @26608 has 13 MA's), (56, 26656), (75, 26773),

Gene: Jubie_31 Start: 28785, Stop: 29051, Start Num: 49
Candidate Starts for Jubie_31:
(Start: 49 @28785 has 30 MA's), (Start: 53 @28797 has 1 MA's), (55, 28830),

Gene: JuliaChild_63 Start: 41613, Stop: 41338, Start Num: 30
Candidate Starts for JuliaChild_63:
(Start: 28 @41616 has 47 MA's), (Start: 30 @41613 has 151 MA's), (Start: 34 @41601 has 2 MA's), (Start: 53 @41571 has 1 MA's), (59, 41520), (62, 41505), (65, 41484), (68, 41454), (73, 41424),

Gene: Juliette_72 Start: 43682, Stop: 43945, Start Num: 46
Candidate Starts for Juliette_72:
(Start: 46 @43682 has 17 MA's), (Start: 52 @43697 has 1 MA's), (64, 43784), (78, 43880), (88, 43934),

Gene: JuneStar_33 Start: 26763, Stop: 27023, Start Num: 40
Candidate Starts for JuneStar_33:
(Start: 40 @26763 has 13 MA's), (74, 26922),

Gene: KBG_63 Start: 43145, Stop: 42876, Start Num: 28
Candidate Starts for KBG_63:
(Start: 28 @43145 has 47 MA's), (Start: 30 @43142 has 151 MA's), (Start: 34 @43130 has 2 MA's), (Start: 53 @43106 has 1 MA's), (58, 43061), (62, 43043), (68, 42992), (88, 42887),

Gene: KSSJEB_62 Start: 40592, Stop: 40323, Start Num: 28
Candidate Starts for KSSJEB_62:
(Start: 28 @40592 has 47 MA's), (Start: 30 @40589 has 151 MA's), (Start: 34 @40577 has 2 MA's), (Start: 53 @40556 has 1 MA's), (59, 40505), (62, 40490), (65, 40469), (68, 40439), (73, 40409),

Gene: Kalimba_31 Start: 22493, Stop: 22759, Start Num: 41
Candidate Starts for Kalimba_31:
(Start: 41 @22493 has 18 MA's), (45, 22502), (Start: 51 @22508 has 136 MA's), (61, 22571),

Gene: Kanely_63 Start: 41177, Stop: 40902, Start Num: 30
Candidate Starts for Kanely_63:
(Start: 28 @41180 has 47 MA's), (Start: 30 @41177 has 151 MA's), (Start: 34 @41165 has 2 MA's), (59, 41084), (62, 41069), (65, 41048), (68, 41018), (73, 40988),

Gene: Kaylissa_33 Start: 24719, Stop: 24961, Start Num: 40
Candidate Starts for Kaylissa_33:

(Start: 40 @24719 has 13 MA's), (74, 24878),

Gene: KeAlii_33 Start: 24733, Stop: 24990, Start Num: 38
Candidate Starts for KeAlii_33:
(8, 24508), (Start: 38 @24733 has 3 MA's),

Gene: Kenmech_65 Start: 42818, Stop: 42549, Start Num: 28
Candidate Starts for Kenmech_65:
(Start: 28 @42818 has 47 MA's), (Start: 30 @42815 has 151 MA's), (Start: 34 @42803 has 2 MA's), (Start: 53 @42782 has 1 MA's), (59, 42731), (62, 42716), (65, 42695), (68, 42665), (73, 42635),

Gene: Kevin1_52 Start: 34949, Stop: 35200, Start Num: 47
Candidate Starts for Kevin1_52:
(12, 34775), (23, 34871), (Start: 47 @34949 has 38 MA's), (Start: 52 @34961 has 1 MA's), (64, 35045), (73, 35111), (74, 35114),

Gene: Kheparia_66 Start: 41440, Stop: 41682, Start Num: 51
Candidate Starts for Kheparia_66:
(Start: 51 @41440 has 136 MA's), (64, 41530), (80, 41626), (84, 41650),

Gene: KikiBouba_61 Start: 40770, Stop: 40504, Start Num: 30
Candidate Starts for KikiBouba_61:
(Start: 28 @40773 has 47 MA's), (Start: 30 @40770 has 151 MA's), (Start: 34 @40758 has 2 MA's), (Start: 53 @40737 has 1 MA's), (59, 40686), (62, 40671), (65, 40650), (68, 40620), (73, 40590),

Gene: Killigrew_61 Start: 41393, Stop: 41097, Start Num: 30
Candidate Starts for Killigrew_61:
(Start: 28 @41396 has 47 MA's), (Start: 30 @41393 has 151 MA's), (Start: 34 @41381 has 2 MA's), (Start: 47 @41348 has 38 MA's), (Start: 53 @41330 has 1 MA's), (59, 41279), (62, 41264), (65, 41243), (68, 41213), (73, 41183),

Gene: Kingsolomon_31 Start: 28784, Stop: 29050, Start Num: 49
Candidate Starts for Kingsolomon_31:
(Start: 49 @28784 has 30 MA's), (Start: 53 @28796 has 1 MA's), (55, 28829),

Gene: KleverKiS_40 Start: 32760, Stop: 33020, Start Num: 49
Candidate Starts for KleverKiS_40:
(18, 32631), (Start: 43 @32742 has 12 MA's), (Start: 49 @32760 has 30 MA's), (59, 32823), (72, 32910), (73, 32919), (76, 32928),

Gene: Kratio_58 Start: 40509, Stop: 40757, Start Num: 51
Candidate Starts for Kratio_58:
(Start: 51 @40509 has 136 MA's), (69, 40641), (74, 40671), (82, 40704),

Gene: Kraw_70 Start: 43370, Stop: 43633, Start Num: 46
Candidate Starts for Kraw_70:
(Start: 46 @43370 has 17 MA's), (Start: 52 @43385 has 1 MA's), (64, 43472), (78, 43568), (88, 43622),

Gene: Kugel_64 Start: 42232, Stop: 41954, Start Num: 28
Candidate Starts for Kugel_64:
(Start: 28 @42232 has 47 MA's), (Start: 30 @42229 has 151 MA's), (Start: 34 @42217 has 2 MA's), (Start: 53 @42187 has 1 MA's), (59, 42136), (62, 42121), (65, 42100), (68, 42070), (73, 42040), (88, 41965),

Gene: KyMonks1A_65 Start: 41158, Stop: 40901, Start Num: 42
Candidate Starts for KyMonks1A_65:
(Start: 42 @41158 has 10 MA's), (Start: 52 @41140 has 1 MA's), (Start: 53 @41134 has 1 MA's), (59, 41083), (62, 41068), (65, 41047), (68, 41017), (73, 40987), (88, 40912),

Gene: Kykar_63 Start: 41758, Stop: 41462, Start Num: 30
Candidate Starts for Kykar_63:
(Start: 28 @41761 has 47 MA's), (Start: 30 @41758 has 151 MA's), (Start: 34 @41746 has 2 MA's), (Start: 47 @41713 has 38 MA's), (Start: 53 @41695 has 1 MA's), (59, 41644), (62, 41629), (65, 41608), (68, 41578), (73, 41548), (88, 41473),

Gene: Lamina13_66 Start: 42549, Stop: 42280, Start Num: 28
Candidate Starts for Lamina13_66:
(Start: 28 @42549 has 47 MA's), (Start: 30 @42546 has 151 MA's), (Start: 34 @42534 has 2 MA's), (Start: 53 @42513 has 1 MA's), (59, 42462), (62, 42447), (65, 42426), (68, 42396), (73, 42366), (88, 42291),

Gene: Larva_61 Start: 41955, Stop: 42203, Start Num: 51
Candidate Starts for Larva_61:
(Start: 51 @41955 has 136 MA's), (62, 42030), (72, 42102),

Gene: LastHope_71 Start: 43062, Stop: 43310, Start Num: 51
Candidate Starts for LastHope_71:
(Start: 51 @43062 has 136 MA's), (64, 43152), (80, 43248), (84, 43272),

Gene: LaterM_67 Start: 44313, Stop: 44555, Start Num: 51
Candidate Starts for LaterM_67:
(Start: 51 @44313 has 136 MA's), (64, 44403), (80, 44499), (84, 44523),

Gene: Laure_112 Start: 79855, Stop: 80103, Start Num: 51
Candidate Starts for Laure_112:
(Start: 51 @79855 has 136 MA's), (Start: 52 @79858 has 1 MA's), (71, 79996), (73, 80008),

Gene: Lavahound_64 Start: 44702, Stop: 44944, Start Num: 51
Candidate Starts for Lavahound_64:
(24, 44633), (Start: 51 @44702 has 136 MA's), (Start: 53 @44711 has 1 MA's), (59, 44762), (64, 44792), (80, 44888), (84, 44912),

Gene: Lebo14_69 Start: 43703, Stop: 43966, Start Num: 46
Candidate Starts for Lebo14_69:
(Start: 46 @43703 has 17 MA's), (Start: 52 @43718 has 1 MA's), (64, 43805), (78, 43901), (88, 43955),

Gene: Lesedi_58 Start: 39515, Stop: 39249, Start Num: 30
Candidate Starts for Lesedi_58:
(Start: 30 @39515 has 151 MA's), (Start: 34 @39503 has 2 MA's), (Start: 53 @39482 has 1 MA's), (59, 39431), (62, 39416), (65, 39395), (68, 39365), (73, 39335), (88, 39260),

Gene: Leston_60 Start: 42561, Stop: 42809, Start Num: 51
Candidate Starts for Leston_60:
(Start: 51 @42561 has 136 MA's), (62, 42636), (72, 42708),

Gene: Levia_60 Start: 40538, Stop: 40263, Start Num: 30

Candidate Starts for Levia_60:
(Start: 28 @40541 has 47 MA's), (Start: 30 @40538 has 151 MA's), (Start: 34 @40526 has 2 MA's), (Start: 53 @40496 has 1 MA's), (62, 40430), (65, 40409), (68, 40379), (73, 40349),

Gene: Licorice_63 Start: 42655, Stop: 42389, Start Num: 30
Candidate Starts for Licorice_63:
(Start: 28 @42658 has 47 MA's), (Start: 30 @42655 has 151 MA's), (Start: 34 @42643 has 2 MA's), (Start: 53 @42622 has 1 MA's), (59, 42571), (62, 42556), (65, 42535), (68, 42505), (73, 42475),

Gene: LilBib_62 Start: 42639, Stop: 42373, Start Num: 30
Candidate Starts for LilBib_62:
(Start: 28 @42642 has 47 MA's), (Start: 30 @42639 has 151 MA's), (Start: 34 @42627 has 2 MA's), (Start: 53 @42606 has 1 MA's), (59, 42555), (62, 42540), (65, 42519), (68, 42489), (73, 42459),

Gene: LilDirt_59 Start: 40531, Stop: 40779, Start Num: 51
Candidate Starts for LilDirt_59:
(Start: 51 @40531 has 136 MA's), (69, 40663), (74, 40693), (82, 40726),

Gene: LilhomieP_38 Start: 32762, Stop: 33040, Start Num: 43
Candidate Starts for LilhomieP_38:
(18, 32651), (Start: 43 @32762 has 12 MA's), (Start: 49 @32780 has 30 MA's), (59, 32843), (72, 32930), (73, 32939), (76, 32948),

Gene: Lizalica_32 Start: 24547, Stop: 24813, Start Num: 40
Candidate Starts for Lizalica_32:
(Start: 40 @24547 has 13 MA's), (74, 24730),

Gene: Llorens_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for Llorens_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: Lockley_59 Start: 40855, Stop: 40580, Start Num: 30
Candidate Starts for Lockley_59:
(Start: 30 @40855 has 151 MA's), (Start: 34 @40843 has 2 MA's), (Start: 53 @40813 has 1 MA's), (59, 40762), (62, 40747), (65, 40726), (67, 40699), (68, 40696), (73, 40666), (88, 40591),

Gene: Lokum_67 Start: 43623, Stop: 43865, Start Num: 51
Candidate Starts for Lokum_67:
(Start: 51 @43623 has 136 MA's), (64, 43713), (80, 43809), (84, 43833),

Gene: Lopton_60 Start: 42624, Stop: 42370, Start Num: 39
Candidate Starts for Lopton_60:
(Start: 35 @42636 has 6 MA's), (Start: 39 @42624 has 4 MA's), (Start: 53 @42603 has 1 MA's), (59, 42552), (62, 42537), (65, 42516), (68, 42486), (73, 42456),

Gene: Lumos_31 Start: 28781, Stop: 29047, Start Num: 49
Candidate Starts for Lumos_31:
(Start: 49 @28781 has 30 MA's), (Start: 53 @28793 has 1 MA's), (55, 28826),

Gene: Lunahalos_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for Lunahalos_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: LunarLander_62 Start: 41834, Stop: 41568, Start Num: 30
Candidate Starts for LunarLander_62:
(Start: 28 @41837 has 47 MA's), (Start: 30 @41834 has 151 MA's), (Start: 34 @41822 has 2 MA's), (Start: 53 @41801 has 1 MA's), (59, 41750), (62, 41735), (65, 41714), (68, 41684), (73, 41654),

Gene: MPlant7149_62 Start: 40186, Stop: 39887, Start Num: 28
Candidate Starts for MPlant7149_62:
(Start: 28 @40186 has 47 MA's), (Start: 30 @40183 has 151 MA's), (Start: 34 @40171 has 2 MA's), (Start: 47 @40138 has 38 MA's), (Start: 53 @40120 has 1 MA's), (59, 40069), (62, 40054), (65, 40033), (68, 40003), (73, 39973), (88, 39898),

Gene: MacKat_62 Start: 39405, Stop: 39647, Start Num: 51
Candidate Starts for MacKat_62:
(Start: 51 @39405 has 136 MA's), (64, 39495), (80, 39591), (84, 39615),

Gene: Magnar_60 Start: 41031, Stop: 40774, Start Num: 42
Candidate Starts for Magnar_60:
(Start: 42 @41031 has 10 MA's), (Start: 52 @41013 has 1 MA's), (Start: 53 @41007 has 1 MA's), (59, 40956), (62, 40941), (65, 40920), (68, 40890), (73, 40860), (88, 40785),

Gene: Magnito_60 Start: 40895, Stop: 40638, Start Num: 42
Candidate Starts for Magnito_60:
(Start: 42 @40895 has 10 MA's), (Start: 52 @40877 has 1 MA's), (Start: 53 @40871 has 1 MA's), (59, 40820), (62, 40805), (65, 40784), (66, 40763), (68, 40754), (73, 40724),

Gene: Magsby_50 Start: 34922, Stop: 35170, Start Num: 47
Candidate Starts for Magsby_50:
(3, 34508), (10, 34715), (12, 34748), (23, 34844), (Start: 47 @34922 has 38 MA's), (Start: 52 @34934 has 1 MA's), (Start: 53 @34940 has 1 MA's), (64, 35018), (73, 35084), (74, 35087),

Gene: Makemake_64 Start: 42602, Stop: 42336, Start Num: 35
Candidate Starts for Makemake_64:
(Start: 35 @42602 has 6 MA's), (Start: 39 @42590 has 4 MA's), (Start: 53 @42569 has 1 MA's), (59, 42518), (62, 42503), (65, 42482), (68, 42452), (73, 42422), (88, 42347),

Gene: Malthus_71 Start: 43370, Stop: 43633, Start Num: 46
Candidate Starts for Malthus_71:
(Start: 46 @43370 has 17 MA's), (Start: 52 @43385 has 1 MA's), (64, 43472), (78, 43568), (88, 43622),

Gene: Manatee_62 Start: 40921, Stop: 40652, Start Num: 28
Candidate Starts for Manatee_62:
(Start: 28 @40921 has 47 MA's), (Start: 30 @40918 has 151 MA's), (Start: 34 @40906 has 2 MA's), (Start: 52 @40891 has 1 MA's), (Start: 53 @40885 has 1 MA's), (59, 40834), (62, 40819), (65, 40798), (68, 40768), (73, 40738),

Gene: Marcell_58 Start: 39784, Stop: 39509, Start Num: 30
Candidate Starts for Marcell_58:
(25, 39808), (Start: 28 @39787 has 47 MA's), (Start: 30 @39784 has 151 MA's), (Start: 34 @39772 has 2 MA's), (Start: 53 @39742 has 1 MA's), (59, 39691), (62, 39676), (65, 39655), (68, 39625), (73, 39595),

Gene: Marchy_56 Start: 37872, Stop: 37597, Start Num: 30
Candidate Starts for Marchy_56:

(Start: 28 @37875 has 47 MA's), (Start: 30 @37872 has 151 MA's), (Start: 34 @37860 has 2 MA's), (Start: 53 @37830 has 1 MA's), (59, 37779), (62, 37764), (65, 37743), (66, 37722), (68, 37713), (73, 37683),

Gene: Marco3_65 Start: 42801, Stop: 42535, Start Num: 30
Candidate Starts for Marco3_65:
(Start: 28 @42804 has 47 MA's), (Start: 30 @42801 has 151 MA's), (Start: 34 @42789 has 2 MA's), (Start: 52 @42774 has 1 MA's), (Start: 53 @42768 has 1 MA's), (59, 42717), (62, 42702), (65, 42681), (68, 42651), (73, 42621), (88, 42546),

Gene: Marcoliusprime_69 Start: 46092, Stop: 46337, Start Num: 51
Candidate Starts for Marcoliusprime_69:
(29, 46035), (32, 46041), (Start: 51 @46092 has 136 MA's), (64, 46182), (68, 46218), (74, 46251),

Gene: Marge_59 Start: 40664, Stop: 40398, Start Num: 30
Candidate Starts for Marge_59:
(Start: 28 @40667 has 47 MA's), (Start: 30 @40664 has 151 MA's), (Start: 34 @40652 has 2 MA's), (Start: 53 @40631 has 1 MA's), (59, 40580), (62, 40565), (65, 40544), (68, 40514), (73, 40484),

Gene: Maroc7_59 Start: 41311, Stop: 41042, Start Num: 28
Candidate Starts for Maroc7_59:
(25, 41332), (Start: 28 @41311 has 47 MA's), (Start: 30 @41308 has 151 MA's), (Start: 34 @41296 has 2 MA's), (Start: 53 @41275 has 1 MA's), (59, 41224), (62, 41209), (65, 41188), (68, 41158), (73, 41128),

Gene: Marsha_61 Start: 42250, Stop: 41984, Start Num: 30
Candidate Starts for Marsha_61:
(Start: 28 @42253 has 47 MA's), (Start: 30 @42250 has 151 MA's), (Start: 53 @42217 has 1 MA's), (59, 42166), (62, 42151), (65, 42130), (66, 42109), (68, 42100), (73, 42070),

Gene: Marshawn_66 Start: 44145, Stop: 44384, Start Num: 51
Candidate Starts for Marshawn_66:
(Start: 51 @44145 has 136 MA's), (64, 44235),

Gene: MaryBeth_60 Start: 41488, Stop: 41222, Start Num: 30
Candidate Starts for MaryBeth_60:
(Start: 28 @41491 has 47 MA's), (Start: 30 @41488 has 151 MA's), (Start: 34 @41476 has 2 MA's), (Start: 53 @41455 has 1 MA's), (59, 41404), (62, 41389), (65, 41368), (68, 41338), (73, 41308), (88, 41233),

Gene: Maureen_36 Start: 26752, Stop: 26994, Start Num: 41
Candidate Starts for Maureen_36:
(Start: 41 @26752 has 18 MA's), (57, 26803), (74, 26911),

Gene: McGuire_63 Start: 40458, Stop: 40162, Start Num: 30
Candidate Starts for McGuire_63:
(Start: 28 @40461 has 47 MA's), (Start: 30 @40458 has 151 MA's), (Start: 34 @40446 has 2 MA's), (Start: 47 @40413 has 38 MA's), (Start: 53 @40395 has 1 MA's), (59, 40344), (62, 40329), (65, 40308), (68, 40278), (73, 40248),

Gene: McMater_69 Start: 44123, Stop: 44362, Start Num: 51
Candidate Starts for McMater_69:
(Start: 51 @44123 has 136 MA's), (64, 44213), (68, 44249), (71, 44267), (84, 44330),

Gene: McSinger_60 Start: 40407, Stop: 40132, Start Num: 30
Candidate Starts for McSinger_60:
(Start: 28 @40410 has 47 MA's), (Start: 30 @40407 has 151 MA's), (Start: 34 @40395 has 2 MA's), (59, 40314), (62, 40299), (65, 40278), (68, 40248), (73, 40218),

Gene: MeaningOfLife_67 Start: 44374, Stop: 44616, Start Num: 51
Candidate Starts for MeaningOfLife_67:
(Start: 51 @44374 has 136 MA's), (64, 44464), (80, 44560), (84, 44584),

Gene: Melville_53 Start: 34906, Stop: 35154, Start Num: 47
Candidate Starts for Melville_53:
(3, 34492), (10, 34699), (12, 34732), (23, 34828), (Start: 47 @34906 has 38 MA's), (Start: 52 @34918 has 1 MA's), (Start: 53 @34924 has 1 MA's), (64, 35002), (73, 35068), (74, 35071),

Gene: MetalQZJ_59 Start: 41488, Stop: 41222, Start Num: 30
Candidate Starts for MetalQZJ_59:
(Start: 28 @41491 has 47 MA's), (Start: 30 @41488 has 151 MA's), (Start: 34 @41476 has 2 MA's), (Start: 53 @41455 has 1 MA's), (59, 41404), (62, 41389), (65, 41368), (68, 41338), (73, 41308), (88, 41233),

Gene: Michley_65 Start: 41769, Stop: 41494, Start Num: 30
Candidate Starts for Michley_65:
(Start: 30 @41769 has 151 MA's), (Start: 34 @41757 has 2 MA's), (59, 41676), (62, 41661), (65, 41640), (68, 41610), (73, 41580), (88, 41505),

Gene: MilleFeuille_63 Start: 40825, Stop: 40574, Start Num: 37
Candidate Starts for MilleFeuille_63:
(16, 40930), (Start: 30 @40849 has 151 MA's), (Start: 37 @40825 has 5 MA's), (59, 40756), (62, 40741), (65, 40720), (66, 40699), (68, 40690), (73, 40660), (88, 40585),

Gene: Milly_69 Start: 46066, Stop: 46311, Start Num: 51
Candidate Starts for Milly_69:
(27, 46003), (Start: 51 @46066 has 136 MA's), (64, 46156), (74, 46225),

Gene: Mimi_108 Start: 86487, Stop: 86735, Start Num: 49
Candidate Starts for Mimi_108:
(Start: 49 @86487 has 30 MA's), (Start: 52 @86493 has 1 MA's), (Start: 53 @86499 has 1 MA's),

Gene: Miryou_64 Start: 45175, Stop: 45423, Start Num: 51
Candidate Starts for Miryou_64:
(Start: 51 @45175 has 136 MA's), (60, 45238),

Gene: MissDaisy_67 Start: 42299, Stop: 42547, Start Num: 52
Candidate Starts for MissDaisy_67:
(11, 42101), (Start: 46 @42284 has 17 MA's), (Start: 52 @42299 has 1 MA's), (64, 42386), (78, 42482), (88, 42536),

Gene: MissSwiss_32 Start: 23153, Stop: 23398, Start Num: 41
Candidate Starts for MissSwiss_32:
(Start: 41 @23153 has 18 MA's), (56, 23198), (74, 23312),

Gene: Mitti_70 Start: 43525, Stop: 43788, Start Num: 46

Candidate Starts for Mitti_70:
(Start: 46 @43525 has 17 MA's), (Start: 52 @43540 has 1 MA's), (64, 43627), (78, 43723), (88, 43777),

Gene: Molly_63 Start: 41563, Stop: 41267, Start Num: 30
Candidate Starts for Molly_63:
(Start: 28 @41566 has 47 MA's), (Start: 30 @41563 has 151 MA's), (Start: 34 @41551 has 2 MA's), (Start: 47 @41518 has 38 MA's), (Start: 53 @41500 has 1 MA's), (59, 41449), (62, 41434), (65, 41413), (68, 41383), (73, 41353),

Gene: Monet_65 Start: 43052, Stop: 42786, Start Num: 30
Candidate Starts for Monet_65:
(Start: 28 @43055 has 47 MA's), (Start: 30 @43052 has 151 MA's), (Start: 34 @43040 has 2 MA's), (Start: 53 @43019 has 1 MA's), (59, 42968), (62, 42953), (65, 42932), (66, 42911), (68, 42902), (73, 42872),

Gene: Moose_63 Start: 40623, Stop: 40327, Start Num: 30
Candidate Starts for Moose_63:
(Start: 28 @40626 has 47 MA's), (Start: 30 @40623 has 151 MA's), (Start: 34 @40611 has 2 MA's), (Start: 47 @40578 has 38 MA's), (Start: 53 @40560 has 1 MA's), (59, 40509), (62, 40494), (65, 40473), (68, 40443), (73, 40413), (88, 40338),

Gene: Moss_31 Start: 22585, Stop: 22851, Start Num: 41
Candidate Starts for Moss_31:
(Start: 41 @22585 has 18 MA's), (Start: 51 @22600 has 136 MA's), (61, 22663), (81, 22783),

Gene: MrGordo_64 Start: 41635, Stop: 41360, Start Num: 30
Candidate Starts for MrGordo_64:
(Start: 28 @41638 has 47 MA's), (Start: 30 @41635 has 151 MA's), (Start: 34 @41623 has 2 MA's), (Start: 53 @41593 has 1 MA's), (59, 41542), (62, 41527), (65, 41506), (68, 41476), (73, 41446), (88, 41371),

Gene: MrMagoo_44 Start: 33882, Stop: 34133, Start Num: 49
Candidate Starts for MrMagoo_44:
(Start: 49 @33882 has 30 MA's), (70, 34026), (71, 34029), (74, 34044), (85, 34098),

Gene: Mryolo_58 Start: 40629, Stop: 40372, Start Num: 42
Candidate Starts for Mryolo_58:
(Start: 42 @40629 has 10 MA's), (Start: 52 @40611 has 1 MA's), (Start: 53 @40605 has 1 MA's), (59, 40554), (62, 40539), (65, 40518), (68, 40488), (73, 40458),

Gene: MsGreen_31 Start: 28784, Stop: 29050, Start Num: 49
Candidate Starts for MsGreen_31:
(Start: 49 @28784 has 30 MA's), (Start: 53 @28796 has 1 MA's), (55, 28829),

Gene: Mufasa_69 Start: 45652, Stop: 45897, Start Num: 51
Candidate Starts for Mufasa_69:
(29, 45595), (32, 45601), (Start: 51 @45652 has 136 MA's), (64, 45742), (74, 45811), (80, 45835), (89, 45889),

Gene: Mule_59 Start: 40467, Stop: 40201, Start Num: 30
Candidate Starts for Mule_59:
(Start: 28 @40470 has 47 MA's), (Start: 30 @40467 has 151 MA's), (Start: 34 @40455 has 2 MA's), (Start: 53 @40434 has 1 MA's), (59, 40383), (62, 40368), (65, 40347), (68, 40317), (73, 40287),

Gene: Murucutumbu_68 Start: 44888, Stop: 45130, Start Num: 51
Candidate Starts for Murucutumbu_68:
(Start: 51 @44888 has 136 MA's), (64, 44978), (80, 45074), (84, 45098),

Gene: Museum_64 Start: 42785, Stop: 42486, Start Num: 28
Candidate Starts for Museum_64:
(Start: 28 @42785 has 47 MA's), (Start: 30 @42782 has 151 MA's), (Start: 34 @42770 has 2 MA's), (Start: 47 @42737 has 38 MA's), (Start: 53 @42719 has 1 MA's), (59, 42668), (62, 42653), (65, 42632), (68, 42602), (73, 42572), (88, 42497),

Gene: Mynx_68 Start: 44234, Stop: 44476, Start Num: 51
Candidate Starts for Mynx_68:
(Start: 51 @44234 has 136 MA's), (64, 44324), (80, 44420), (84, 44444),

Gene: Mysterium_31 Start: 22590, Stop: 22856, Start Num: 41
Candidate Starts for Mysterium_31:
(Start: 41 @22590 has 18 MA's), (Start: 51 @22605 has 136 MA's), (61, 22668), (81, 22788),

Gene: NEHalo_59 Start: 41047, Stop: 40781, Start Num: 30
Candidate Starts for NEHalo_59:
(Start: 28 @41050 has 47 MA's), (Start: 30 @41047 has 151 MA's), (Start: 34 @41035 has 2 MA's), (Start: 53 @41014 has 1 MA's), (59, 40963), (62, 40948), (65, 40927), (68, 40897), (73, 40867), (88, 40792),

Gene: Naira_64 Start: 42709, Stop: 42434, Start Num: 30
Candidate Starts for Naira_64:
(Start: 30 @42709 has 151 MA's), (Start: 34 @42697 has 2 MA's), (Start: 53 @42667 has 1 MA's), (59, 42616), (62, 42601), (65, 42580), (66, 42559), (68, 42550), (73, 42520), (88, 42445),

Gene: Nanosmite_44 Start: 33715, Stop: 33966, Start Num: 49
Candidate Starts for Nanosmite_44:
(Start: 49 @33715 has 30 MA's), (59, 33778), (64, 33808), (70, 33859),

Gene: Neighly_62 Start: 41954, Stop: 42202, Start Num: 51
Candidate Starts for Neighly_62:
(Start: 51 @41954 has 136 MA's), (62, 42029), (72, 42101),

Gene: Nenae_55 Start: 36175, Stop: 36423, Start Num: 47
Candidate Starts for Nenae_55:
(Start: 47 @36175 has 38 MA's), (Start: 52 @36187 has 1 MA's), (73, 36337), (74, 36340), (88, 36415),

Gene: Nerujay_64 Start: 42393, Stop: 42118, Start Num: 30
Candidate Starts for Nerujay_64:
(Start: 28 @42396 has 47 MA's), (Start: 30 @42393 has 151 MA's), (Start: 34 @42381 has 2 MA's), (Start: 53 @42351 has 1 MA's), (59, 42300), (62, 42285), (65, 42264), (68, 42234), (73, 42204),

Gene: Nhonho_60 Start: 41685, Stop: 41386, Start Num: 28
Candidate Starts for Nhonho_60:
(17, 41763), (Start: 28 @41685 has 47 MA's), (Start: 30 @41682 has 151 MA's), (Start: 34 @41670 has 2 MA's), (Start: 47 @41637 has 38 MA's), (Start: 53 @41619 has 1 MA's), (59, 41568), (62, 41553), (65, 41532), (68, 41502), (73, 41472),

Gene: Nicholas_31 Start: 28784, Stop: 29050, Start Num: 49
Candidate Starts for Nicholas_31:
(Start: 49 @28784 has 30 MA's), (Start: 53 @28796 has 1 MA's), (55, 28829),

Gene: Niklas_69 Start: 44184, Stop: 44423, Start Num: 51
Candidate Starts for Niklas_69:
(Start: 51 @44184 has 136 MA's), (64, 44274), (68, 44310), (71, 44328), (84, 44391),

Gene: Niobe_34 Start: 26608, Stop: 26865, Start Num: 40
Candidate Starts for Niobe_34:
(7, 26371), (8, 26380), (Start: 40 @26608 has 13 MA's), (56, 26656), (75, 26773),

Gene: Niza_64 Start: 43063, Stop: 42797, Start Num: 30
Candidate Starts for Niza_64:
(Start: 28 @43066 has 47 MA's), (Start: 30 @43063 has 151 MA's), (Start: 34 @43051 has 2 MA's), (Start: 53 @43030 has 1 MA's), (59, 42979), (62, 42964), (65, 42943), (68, 42913), (73, 42883), (88, 42808),

Gene: Nolwazi_72 Start: 43516, Stop: 43779, Start Num: 46
Candidate Starts for Nolwazi_72:
(Start: 46 @43516 has 17 MA's), (Start: 52 @43531 has 1 MA's), (64, 43618), (78, 43714), (88, 43768),

Gene: Norz_62 Start: 43480, Stop: 43214, Start Num: 30
Candidate Starts for Norz_62:
(Start: 28 @43483 has 47 MA's), (Start: 30 @43480 has 151 MA's), (Start: 34 @43468 has 2 MA's), (Start: 53 @43447 has 1 MA's), (59, 43396), (62, 43381), (65, 43360), (68, 43330), (73, 43300),

Gene: Noxious_61 Start: 40961, Stop: 40695, Start Num: 30
Candidate Starts for Noxious_61:
(Start: 28 @40964 has 47 MA's), (Start: 30 @40961 has 151 MA's), (Start: 34 @40949 has 2 MA's), (Start: 53 @40928 has 1 MA's), (59, 40877), (62, 40862), (65, 40841), (68, 40811), (73, 40781),

Gene: Ohno789_62 Start: 41791, Stop: 41525, Start Num: 30
Candidate Starts for Ohno789_62:
(Start: 30 @41791 has 151 MA's), (Start: 34 @41779 has 2 MA's), (Start: 52 @41764 has 1 MA's), (Start: 53 @41758 has 1 MA's), (59, 41707), (62, 41692), (65, 41671), (68, 41641), (73, 41611), (88, 41536),

Gene: OkiRoe_61 Start: 42847, Stop: 43095, Start Num: 51
Candidate Starts for OkiRoe_61:
(Start: 51 @42847 has 136 MA's), (60, 42910),

Gene: Omnicron_64 Start: 42953, Stop: 43201, Start Num: 51
Candidate Starts for Omnicron_64:
(Start: 51 @42953 has 136 MA's), (56, 42998),

Gene: Oogway_61 Start: 42078, Stop: 41827, Start Num: 47
Candidate Starts for Oogway_61:
(Start: 28 @42126 has 47 MA's), (Start: 30 @42123 has 151 MA's), (Start: 34 @42111 has 2 MA's), (Start: 47 @42078 has 38 MA's), (Start: 53 @42060 has 1 MA's), (59, 42009), (62, 41994), (65, 41973), (68, 41943), (73, 41913), (88, 41838),

Gene: PSullivan_60 Start: 39680, Stop: 39405, Start Num: 30

Candidate Starts for PSullivan_60:
(Start: 28 @39683 has 47 MA's), (Start: 30 @39680 has 151 MA's), (Start: 34 @39668 has 2 MA's), (Start: 53 @39638 has 1 MA's), (59, 39587), (62, 39572), (65, 39551), (68, 39521), (73, 39491),

Gene: PacerPaul_61 Start: 41105, Stop: 40827, Start Num: 28
Candidate Starts for PacerPaul_61:
(Start: 28 @41105 has 47 MA's), (Start: 30 @41102 has 151 MA's), (Start: 34 @41090 has 2 MA's), (Start: 53 @41060 has 1 MA's), (59, 41009), (62, 40994), (65, 40973), (68, 40943), (73, 40913),

Gene: Padfoot_66 Start: 43819, Stop: 44061, Start Num: 51
Candidate Starts for Padfoot_66:
(Start: 51 @43819 has 136 MA's), (64, 43909), (80, 44005), (84, 44029),

Gene: Padpat_69 Start: 43939, Stop: 44181, Start Num: 51
Candidate Starts for Padpat_69:
(Start: 51 @43939 has 136 MA's), (64, 44029), (80, 44125), (84, 44149),

Gene: Panchino_48 Start: 35810, Stop: 36058, Start Num: 47
Candidate Starts for Panchino_48:
(12, 35636), (23, 35732), (Start: 47 @35810 has 38 MA's), (Start: 52 @35822 has 1 MA's), (64, 35906), (73, 35972), (74, 35975),

Gene: PandaPo_32 Start: 23156, Stop: 23401, Start Num: 41
Candidate Starts for PandaPo_32:
(Start: 41 @23156 has 18 MA's), (56, 23201), (74, 23315),

Gene: Paola_60 Start: 42432, Stop: 42680, Start Num: 51
Candidate Starts for Paola_60:
(Start: 51 @42432 has 136 MA's), (62, 42507), (72, 42579),

Gene: Papez_64 Start: 42624, Stop: 42355, Start Num: 28
Candidate Starts for Papez_64:
(Start: 28 @42624 has 47 MA's), (Start: 30 @42621 has 151 MA's), (Start: 34 @42609 has 2 MA's), (Start: 53 @42588 has 1 MA's), (59, 42537), (62, 42522), (65, 42501), (68, 42471), (73, 42441),

Gene: Paphu_62 Start: 41937, Stop: 41638, Start Num: 28
Candidate Starts for Paphu_62:
(Start: 28 @41937 has 47 MA's), (Start: 30 @41934 has 151 MA's), (Start: 34 @41922 has 2 MA's), (Start: 47 @41889 has 38 MA's), (Start: 53 @41871 has 1 MA's), (59, 41820), (62, 41805), (65, 41784), (68, 41754), (73, 41724), (88, 41649),

Gene: Paraselene_60 Start: 41399, Stop: 41133, Start Num: 30
Candidate Starts for Paraselene_60:
(Start: 28 @41402 has 47 MA's), (Start: 30 @41399 has 151 MA's), (Start: 34 @41387 has 2 MA's), (Start: 53 @41366 has 1 MA's), (59, 41315), (62, 41300), (65, 41279), (68, 41249), (73, 41219), (88, 41144),

Gene: Pari_65 Start: 40809, Stop: 40543, Start Num: 30
Candidate Starts for Pari_65:
(Start: 28 @40812 has 47 MA's), (Start: 30 @40809 has 151 MA's), (Start: 34 @40797 has 2 MA's), (Start: 52 @40782 has 1 MA's), (Start: 53 @40776 has 1 MA's), (59, 40725), (62, 40710), (65, 40689), (68, 40659), (73, 40629), (88, 40554),

Gene: Parliament_64 Start: 43726, Stop: 43430, Start Num: 30
Candidate Starts for Parliament_64:
(Start: 28 @43729 has 47 MA's), (Start: 30 @43726 has 151 MA's), (Start: 34 @43714 has 2 MA's), (Start: 47 @43681 has 38 MA's), (Start: 53 @43663 has 1 MA's), (59, 43612), (62, 43597), (65, 43576), (68, 43546), (73, 43516), (88, 43441),

Gene: Parmesanjohn_50 Start: 34925, Stop: 35173, Start Num: 47
Candidate Starts for Parmesanjohn_50:
(3, 34511), (10, 34718), (12, 34751), (23, 34847), (Start: 47 @34925 has 38 MA's), (Start: 52 @34937 has 1 MA's), (Start: 53 @34943 has 1 MA's), (64, 35021), (73, 35087), (74, 35090),

Gene: PascalRango_60 Start: 40921, Stop: 40646, Start Num: 30
Candidate Starts for PascalRango_60:
(Start: 28 @40924 has 47 MA's), (Start: 30 @40921 has 151 MA's), (Start: 34 @40909 has 2 MA's), (Start: 53 @40879 has 1 MA's), (59, 40828), (62, 40813), (65, 40792), (68, 40762), (73, 40732),

Gene: Patbob_107 Start: 87222, Stop: 87470, Start Num: 49
Candidate Starts for Patbob_107:
(Start: 49 @87222 has 30 MA's), (Start: 52 @87228 has 1 MA's), (Start: 53 @87234 has 1 MA's),

Gene: Patt_66 Start: 42008, Stop: 42271, Start Num: 46
Candidate Starts for Patt_66:
(11, 41825), (Start: 46 @42008 has 17 MA's), (64, 42110), (78, 42206), (88, 42260),

Gene: PattyP_64 Start: 42323, Stop: 42045, Start Num: 28
Candidate Starts for PattyP_64:
(Start: 28 @42323 has 47 MA's), (Start: 30 @42320 has 151 MA's), (Start: 34 @42308 has 2 MA's), (Start: 53 @42278 has 1 MA's), (59, 42227), (62, 42212), (65, 42191), (68, 42161), (73, 42131),

Gene: Payneful_60 Start: 40589, Stop: 40314, Start Num: 30
Candidate Starts for Payneful_60:
(Start: 28 @40592 has 47 MA's), (Start: 30 @40589 has 151 MA's), (Start: 34 @40577 has 2 MA's), (Start: 53 @40547 has 1 MA's), (59, 40496), (62, 40481), (65, 40460), (66, 40439), (68, 40430), (73, 40400),

Gene: Peanam_69 Start: 44141, Stop: 44380, Start Num: 51
Candidate Starts for Peanam_69:
(Start: 51 @44141 has 136 MA's), (64, 44231), (68, 44267), (71, 44285), (84, 44348),

Gene: Peel_66 Start: 43624, Stop: 43866, Start Num: 51
Candidate Starts for Peel_66:
(Start: 51 @43624 has 136 MA's), (64, 43714), (80, 43810), (84, 43834),

Gene: PegLeg_39 Start: 32761, Stop: 33039, Start Num: 43
Candidate Starts for PegLeg_39:
(18, 32650), (Start: 43 @32761 has 12 MA's), (Start: 49 @32779 has 30 MA's), (59, 32842), (72, 32929), (73, 32938), (76, 32947),

Gene: Pelly_63 Start: 43135, Stop: 42869, Start Num: 30
Candidate Starts for Pelly_63:
(Start: 28 @43138 has 47 MA's), (Start: 30 @43135 has 151 MA's), (Start: 34 @43123 has 2 MA's), (Start: 53 @43102 has 1 MA's), (59, 43051), (62, 43036), (65, 43015), (68, 42985), (73, 42955), (88, 42880),

Gene: Pepe_60 Start: 40251, Stop: 39985, Start Num: 30
Candidate Starts for Pepe_60:
(Start: 28 @40254 has 47 MA's), (Start: 30 @40251 has 151 MA's), (Start: 34 @40239 has 2 MA's), (Start: 52 @40224 has 1 MA's), (Start: 53 @40218 has 1 MA's), (59, 40167), (62, 40152), (68, 40101), (73, 40071),

Gene: Perseus_61 Start: 42872, Stop: 42606, Start Num: 30
Candidate Starts for Perseus_61:
(Start: 28 @42875 has 47 MA's), (Start: 30 @42872 has 151 MA's), (Start: 34 @42860 has 2 MA's), (Start: 53 @42839 has 1 MA's), (59, 42788), (62, 42773), (65, 42752), (68, 42722), (73, 42692),

Gene: Peterson_66 Start: 43632, Stop: 43366, Start Num: 30
Candidate Starts for Peterson_66:
(Start: 30 @43632 has 151 MA's), (Start: 34 @43620 has 2 MA's), (Start: 53 @43599 has 1 MA's), (59, 43548), (62, 43533), (65, 43512), (68, 43482), (73, 43452), (88, 43377),

Gene: Petp2012_65 Start: 43269, Stop: 42970, Start Num: 28
Candidate Starts for Petp2012_65:
(Start: 28 @43269 has 47 MA's), (Start: 30 @43266 has 151 MA's), (Start: 34 @43254 has 2 MA's), (Start: 47 @43221 has 38 MA's), (Start: 53 @43203 has 1 MA's), (59, 43152), (62, 43137), (65, 43116), (68, 43086), (73, 43056), (88, 42981),

Gene: Petruchio_62 Start: 40710, Stop: 40435, Start Num: 30
Candidate Starts for Petruchio_62:
(Start: 28 @40713 has 47 MA's), (Start: 30 @40710 has 151 MA's), (Start: 34 @40698 has 2 MA's), (Start: 53 @40668 has 1 MA's), (59, 40617), (62, 40602), (65, 40581), (68, 40551), (73, 40521), (88, 40446),

Gene: PhancyPhin_55 Start: 36169, Stop: 36417, Start Num: 47
Candidate Starts for PhancyPhin_55:
(Start: 47 @36169 has 38 MA's), (Start: 52 @36181 has 1 MA's), (73, 36331), (74, 36334), (88, 36409),

Gene: Pharb_67 Start: 43448, Stop: 43690, Start Num: 51
Candidate Starts for Pharb_67:
(Start: 51 @43448 has 136 MA's), (54, 43481), (64, 43538), (74, 43610),

Gene: PhelpsODU_68 Start: 43391, Stop: 43630, Start Num: 51
Candidate Starts for PhelpsODU_68:
(Start: 51 @43391 has 136 MA's), (Start: 53 @43400 has 1 MA's), (64, 43481), (74, 43550),

Gene: PherrisBueller_61 Start: 39865, Stop: 39599, Start Num: 30
Candidate Starts for PherrisBueller_61:
(Start: 30 @39865 has 151 MA's), (Start: 34 @39853 has 2 MA's), (Start: 52 @39838 has 1 MA's), (Start: 53 @39832 has 1 MA's), (59, 39781), (62, 39766), (65, 39745), (68, 39715), (73, 39685), (88, 39610),

Gene: PhineBark_62 Start: 41556, Stop: 41281, Start Num: 30
Candidate Starts for PhineBark_62:
(Start: 28 @41559 has 47 MA's), (Start: 30 @41556 has 151 MA's), (Start: 34 @41544 has 2 MA's), (Start: 53 @41514 has 1 MA's), (62, 41448), (65, 41427), (68, 41397), (73, 41367),

Gene: Phlippers_58 Start: 41400, Stop: 41134, Start Num: 30

Candidate Starts for Phlippers_58:
(Start: 28 @41403 has 47 MA's), (Start: 30 @41400 has 151 MA's), (Start: 34 @41388 has 2 MA's), (Start: 53 @41367 has 1 MA's), (59, 41316), (62, 41301), (65, 41280), (68, 41250), (73, 41220),

Gene: Phloss_48 Start: 34332, Stop: 34580, Start Num: 47
Candidate Starts for Phloss_48:
(3, 33918), (10, 34125), (12, 34158), (23, 34254), (Start: 47 @34332 has 38 MA's), (Start: 52 @34344 has 1 MA's), (Start: 53 @34350 has 1 MA's), (64, 34428), (73, 34494), (74, 34497),

Gene: Phrampa_101 Start: 88629, Stop: 88877, Start Num: 49
Candidate Starts for Phrampa_101:
(Start: 49 @88629 has 30 MA's), (Start: 52 @88635 has 1 MA's), (Start: 53 @88641 has 1 MA's), (71, 88773),

Gene: Phrann_52 Start: 36452, Stop: 36700, Start Num: 47
Candidate Starts for Phrann_52:
(Start: 47 @36452 has 38 MA's), (Start: 52 @36464 has 1 MA's), (73, 36614), (74, 36617), (88, 36692),

Gene: PhrostyMug_62 Start: 42644, Stop: 42375, Start Num: 28
Candidate Starts for PhrostyMug_62:
(Start: 28 @42644 has 47 MA's), (Start: 30 @42641 has 151 MA's), (Start: 34 @42629 has 2 MA's), (Start: 53 @42608 has 1 MA's), (59, 42557), (62, 42542), (65, 42521), (68, 42491), (73, 42461),

Gene: Piatt_66 Start: 43819, Stop: 44061, Start Num: 51
Candidate Starts for Piatt_66:
(Start: 51 @43819 has 136 MA's), (64, 43909), (80, 44005), (84, 44029),

Gene: PinkPlastic_62 Start: 41194, Stop: 40919, Start Num: 30
Candidate Starts for PinkPlastic_62:
(Start: 28 @41197 has 47 MA's), (Start: 30 @41194 has 151 MA's), (Start: 34 @41182 has 2 MA's), (Start: 53 @41152 has 1 MA's), (59, 41101), (62, 41086), (65, 41065), (68, 41035), (73, 41005), (88, 40930),

Gene: Pinto_62 Start: 40971, Stop: 40705, Start Num: 35
Candidate Starts for Pinto_62:
(Start: 35 @40971 has 6 MA's), (Start: 39 @40959 has 4 MA's), (Start: 53 @40938 has 1 MA's), (59, 40887), (62, 40872), (65, 40851), (68, 40821), (73, 40791), (88, 40716),

Gene: Pippin_62 Start: 40576, Stop: 40307, Start Num: 28
Candidate Starts for Pippin_62:
(Start: 28 @40576 has 47 MA's), (Start: 30 @40573 has 151 MA's), (Start: 34 @40561 has 2 MA's), (Start: 53 @40540 has 1 MA's), (59, 40489), (62, 40474), (65, 40453), (68, 40423), (73, 40393),

Gene: Pipsqueaks_50 Start: 34902, Stop: 35150, Start Num: 47
Candidate Starts for Pipsqueaks_50:
(3, 34488), (10, 34695), (12, 34728), (23, 34824), (Start: 47 @34902 has 38 MA's), (Start: 52 @34914 has 1 MA's), (Start: 53 @34920 has 1 MA's), (64, 34998), (73, 35064), (74, 35067),

Gene: Pisa1_66 Start: 44437, Stop: 44682, Start Num: 51
Candidate Starts for Pisa1_66:
(Start: 51 @44437 has 136 MA's), (64, 44527), (80, 44623), (84, 44647),

Gene: Pisa4_60 Start: 39806, Stop: 40051, Start Num: 51

Candidate Starts for Pisa4_60:
(Start: 51 @39806 has 136 MA's), (64, 39896), (80, 39992), (84, 40016),

Gene: Pita2_63 Start: 41180, Stop: 40902, Start Num: 28
Candidate Starts for Pita2_63:
(Start: 28 @41180 has 47 MA's), (Start: 30 @41177 has 151 MA's), (Start: 34 @41165 has 2 MA's), (Start: 53 @41135 has 1 MA's), (59, 41084), (62, 41069), (65, 41048), (68, 41018), (73, 40988),

Gene: Pixelle_33 Start: 26398, Stop: 26640, Start Num: 44
Candidate Starts for Pixelle_33:
(Start: 44 @26398 has 3 MA's),

Gene: Pokerus_66 Start: 43964, Stop: 44206, Start Num: 51
Candidate Starts for Pokerus_66:
(Start: 51 @43964 has 136 MA's), (64, 44054), (80, 44150), (84, 44174),

Gene: Pollywog_85 Start: 50811, Stop: 51077, Start Num: 35
Candidate Starts for Pollywog_85:
(Start: 35 @50811 has 6 MA's), (Start: 39 @50823 has 4 MA's), (Start: 53 @50844 has 1 MA's), (59, 50895), (62, 50910), (65, 50931), (66, 50952), (68, 50961), (73, 50991), (88, 51066),

Gene: PowerRanger_60 Start: 42237, Stop: 41971, Start Num: 30
Candidate Starts for PowerRanger_60:
(Start: 28 @42240 has 47 MA's), (Start: 30 @42237 has 151 MA's), (Start: 34 @42225 has 2 MA's), (Start: 53 @42204 has 1 MA's), (59, 42153), (62, 42138), (68, 42087), (83, 42012), (88, 41982),

Gene: ProMouse_64 Start: 41361, Stop: 41077, Start Num: 34
Candidate Starts for ProMouse_64:
(20, 41430), (Start: 30 @41373 has 151 MA's), (Start: 34 @41361 has 2 MA's), (Start: 47 @41328 has 38 MA's), (Start: 53 @41310 has 1 MA's), (62, 41244), (65, 41223), (68, 41193), (73, 41163), (88, 41088),

Gene: Psycho_60 Start: 41080, Stop: 41328, Start Num: 51
Candidate Starts for Psycho_60:
(Start: 51 @41080 has 136 MA's), (62, 41155), (72, 41227),

Gene: Pumpkins_33 Start: 25496, Stop: 25762, Start Num: 40
Candidate Starts for Pumpkins_33:
(Start: 40 @25496 has 13 MA's), (74, 25679),

Gene: Puppet_61 Start: 42578, Stop: 42312, Start Num: 30
Candidate Starts for Puppet_61:
(Start: 28 @42581 has 47 MA's), (Start: 30 @42578 has 151 MA's), (Start: 34 @42566 has 2 MA's), (Start: 53 @42545 has 1 MA's), (59, 42494), (62, 42479), (65, 42458), (66, 42437), (68, 42428), (73, 42398),

Gene: Purgamenstris_55 Start: 36173, Stop: 36421, Start Num: 47
Candidate Starts for Purgamenstris_55:
(Start: 47 @36173 has 38 MA's), (Start: 52 @36185 has 1 MA's), (73, 36335), (74, 36338), (88, 36413),

Gene: QTRlifeCrisis_62 Start: 41518, Stop: 41243, Start Num: 30
Candidate Starts for QTRlifeCrisis_62:

(Start: 28 @41521 has 47 MA's), (Start: 30 @41518 has 151 MA's), (Start: 34 @41506 has 2 MA's), (Start: 53 @41476 has 1 MA's), (59, 41425), (62, 41410), (65, 41389), (68, 41359), (73, 41329),

Gene: Qhanda_72 Start: 43386, Stop: 43649, Start Num: 46
Candidate Starts for Qhanda_72:
(Start: 46 @43386 has 17 MA's), (Start: 52 @43401 has 1 MA's), (64, 43488), (78, 43584), (88, 43638),

Gene: QuincyRose_64 Start: 43845, Stop: 44087, Start Num: 51
Candidate Starts for QuincyRose_64:
(Start: 51 @43845 has 136 MA's), (64, 43935), (80, 44031), (84, 44055),

Gene: Racecar_109 Start: 87140, Stop: 87388, Start Num: 49
Candidate Starts for Racecar_109:
(Start: 49 @87140 has 30 MA's), (Start: 52 @87146 has 1 MA's), (Start: 53 @87152 has 1 MA's),

Gene: Rajelicia_62 Start: 42806, Stop: 42531, Start Num: 30
Candidate Starts for Rajelicia_62:
(Start: 28 @42809 has 47 MA's), (Start: 30 @42806 has 151 MA's), (Start: 34 @42794 has 2 MA's), (Start: 53 @42764 has 1 MA's), (59, 42713), (62, 42698), (65, 42677), (68, 42647), (73, 42617),

Gene: Ramen_67 Start: 43469, Stop: 43711, Start Num: 51
Candidate Starts for Ramen_67:
(Start: 51 @43469 has 136 MA's), (64, 43559), (80, 43655), (84, 43679),

Gene: Rando14_62 Start: 40667, Stop: 40915, Start Num: 51
Candidate Starts for Rando14_62:
(Start: 51 @40667 has 136 MA's),

Gene: Rapunzel97_68 Start: 43920, Stop: 44162, Start Num: 51
Candidate Starts for Rapunzel97_68:
(Start: 51 @43920 has 136 MA's), (64, 44010), (80, 44106), (84, 44130),

Gene: Raymond7_49 Start: 35961, Stop: 36209, Start Num: 47
Candidate Starts for Raymond7_49:
(Start: 47 @35961 has 38 MA's), (Start: 52 @35973 has 1 MA's), (73, 36123), (74, 36126), (88, 36201),

Gene: Redi_55 Start: 36172, Stop: 36420, Start Num: 47
Candidate Starts for Redi_55:
(Start: 47 @36172 has 38 MA's), (Start: 52 @36184 has 1 MA's), (73, 36334), (74, 36337), (88, 36412),

Gene: Reedo_32 Start: 23099, Stop: 23341, Start Num: 44
Candidate Starts for Reedo_32:
(4, 22766), (7, 22862), (8, 22871), (13, 22946), (Start: 44 @23099 has 3 MA's),

Gene: Reindeer_39 Start: 33229, Stop: 33507, Start Num: 43
Candidate Starts for Reindeer_39:
(Start: 43 @33229 has 12 MA's), (Start: 49 @33247 has 30 MA's), (59, 33310), (62, 33325), (72, 33397), (73, 33406), (74, 33409), (76, 33415),

Gene: Reptar3000_67 Start: 41997, Stop: 42260, Start Num: 46
Candidate Starts for Reptar3000_67:
(Start: 46 @41997 has 17 MA's), (64, 42099), (78, 42195), (88, 42249),

Gene: Rey_44 Start: 34155, Stop: 34406, Start Num: 48
Candidate Starts for Rey_44:
(Start: 48 @34155 has 1 MA's), (64, 34248), (70, 34299), (71, 34302), (73, 34314),

Gene: Rhynn_60 Start: 40743, Stop: 40474, Start Num: 28
Candidate Starts for Rhynn_60:
(Start: 14 @40845 has 1 MA's), (15, 40842), (19, 40797), (21, 40779), (Start: 28 @40743 has 47 MA's), (Start: 30 @40740 has 151 MA's), (Start: 34 @40728 has 2 MA's), (Start: 53 @40707 has 1 MA's), (59, 40656), (62, 40641), (65, 40620), (68, 40590), (73, 40560),

Gene: Richo_69 Start: 44123, Stop: 44362, Start Num: 51
Candidate Starts for Richo_69:
(Start: 51 @44123 has 136 MA's), (64, 44213), (68, 44249), (71, 44267), (84, 44330),

Gene: RidgeCB_61 Start: 40947, Stop: 40681, Start Num: 35
Candidate Starts for RidgeCB_61:
(Start: 35 @40947 has 6 MA's), (Start: 39 @40935 has 4 MA's), (Start: 53 @40914 has 1 MA's), (59, 40863), (62, 40848), (65, 40827), (68, 40797), (73, 40767),

Gene: Ringer_62 Start: 42252, Stop: 42001, Start Num: 37
Candidate Starts for Ringer_62:
(16, 42357), (Start: 37 @42252 has 5 MA's), (59, 42183), (62, 42168), (65, 42147), (68, 42117), (73, 42087), (88, 42012),

Gene: RockScotty_31 Start: 22561, Stop: 22827, Start Num: 41
Candidate Starts for RockScotty_31:
(Start: 41 @22561 has 18 MA's), (Start: 51 @22576 has 136 MA's), (61, 22639), (63, 22657), (81, 22759),

Gene: Rockabye_109 Start: 80343, Stop: 80585, Start Num: 49
Candidate Starts for Rockabye_109:
(33, 80295), (Start: 49 @80343 has 30 MA's), (64, 80433), (74, 80502),

Gene: Rohr_64 Start: 42615, Stop: 42316, Start Num: 28
Candidate Starts for Rohr_64:
(Start: 28 @42615 has 47 MA's), (Start: 30 @42612 has 151 MA's), (Start: 34 @42600 has 2 MA's), (Start: 47 @42567 has 38 MA's), (Start: 53 @42549 has 1 MA's), (59, 42498), (62, 42483), (65, 42462), (68, 42432), (73, 42402), (88, 42327),

Gene: Rosmarinus_66 Start: 43610, Stop: 43852, Start Num: 51
Candidate Starts for Rosmarinus_66:
(Start: 51 @43610 has 136 MA's), (64, 43700), (80, 43796), (84, 43820),

Gene: Rubeelu_53 Start: 35513, Stop: 35761, Start Num: 47
Candidate Starts for Rubeelu_53:
(12, 35339), (23, 35435), (Start: 47 @35513 has 38 MA's), (Start: 52 @35525 has 1 MA's), (64, 35609), (73, 35675), (74, 35678),

Gene: Rubeus_60 Start: 38752, Stop: 38498, Start Num: 39
Candidate Starts for Rubeus_60:
(Start: 35 @38764 has 6 MA's), (Start: 39 @38752 has 4 MA's), (Start: 53 @38731 has 1 MA's), (59, 38680), (62, 38665), (65, 38644), (68, 38614), (73, 38584), (88, 38509),

Gene: Rufus_63 Start: 41448, Stop: 41182, Start Num: 35
Candidate Starts for Rufus_63:
(Start: 35 @41448 has 6 MA's), (Start: 39 @41436 has 4 MA's), (Start: 53 @41415 has 1 MA's), (59, 41364), (62, 41349), (65, 41328), (68, 41298), (73, 41268), (88, 41193),

Gene: Ruotula_64 Start: 42952, Stop: 42695, Start Num: 42
Candidate Starts for Ruotula_64:
(Start: 42 @42952 has 10 MA's), (Start: 52 @42934 has 1 MA's), (Start: 53 @42928 has 1 MA's), (59, 42877), (62, 42862), (65, 42841), (68, 42811), (73, 42781),

Gene: Rutherferd_64 Start: 42559, Stop: 42290, Start Num: 28
Candidate Starts for Rutherferd_64:
(Start: 14 @42661 has 1 MA's), (15, 42658), (19, 42613), (21, 42595), (Start: 28 @42559 has 47 MA's), (Start: 30 @42556 has 151 MA's), (Start: 34 @42544 has 2 MA's), (Start: 53 @42523 has 1 MA's), (59, 42472), (62, 42457), (65, 42436), (68, 42406), (73, 42376),

Gene: SJReid_112 Start: 79391, Stop: 79633, Start Num: 49
Candidate Starts for SJReid_112:
(Start: 49 @79391 has 30 MA's), (71, 79535),

Gene: STLscum_70 Start: 43220, Stop: 42969, Start Num: 37
Candidate Starts for STLscum_70:
(16, 43325), (Start: 37 @43220 has 5 MA's), (59, 43151), (62, 43136), (65, 43115), (68, 43085), (73, 43055), (88, 42980),

Gene: Sabourin_31 Start: 22493, Stop: 22759, Start Num: 41
Candidate Starts for Sabourin_31:
(Start: 41 @22493 has 18 MA's), (45, 22502), (Start: 51 @22508 has 136 MA's), (61, 22571),

Gene: Sagefire_64 Start: 42827, Stop: 42561, Start Num: 30
Candidate Starts for Sagefire_64:
(Start: 28 @42830 has 47 MA's), (Start: 30 @42827 has 151 MA's), (Start: 34 @42815 has 2 MA's), (Start: 53 @42794 has 1 MA's), (59, 42743), (62, 42728), (65, 42707), (68, 42677), (73, 42647),

Gene: SamScheppers_68 Start: 43849, Stop: 44112, Start Num: 46
Candidate Starts for SamScheppers_68:
(Start: 46 @43849 has 17 MA's), (Start: 52 @43864 has 1 MA's), (64, 43951), (78, 44047), (88, 44101),

Gene: Samty_31 Start: 28787, Stop: 29053, Start Num: 49
Candidate Starts for Samty_31:
(Start: 49 @28787 has 30 MA's), (Start: 53 @28799 has 1 MA's), (55, 28832),

Gene: Sandaddy_58 Start: 40699, Stop: 40442, Start Num: 42
Candidate Starts for Sandaddy_58:
(Start: 42 @40699 has 10 MA's), (Start: 52 @40681 has 1 MA's), (Start: 53 @40675 has 1 MA's), (59, 40624), (62, 40609), (65, 40588), (68, 40558), (73, 40528), (88, 40453),

Gene: Sanya_59 Start: 41995, Stop: 41741, Start Num: 39
Candidate Starts for Sanya_59:
(Start: 35 @42007 has 6 MA's), (Start: 39 @41995 has 4 MA's), (Start: 53 @41974 has 1 MA's), (59, 41923), (62, 41908), (65, 41887), (68, 41857), (73, 41827), (88, 41752),

Gene: SarFire_61 Start: 41167, Stop: 40898, Start Num: 28

Candidate Starts for SarFire_61:
(Start: 28 @41167 has 47 MA's), (Start: 30 @41164 has 151 MA's), (Start: 34 @41152 has 2 MA's), (Start: 52 @41137 has 1 MA's), (Start: 53 @41131 has 1 MA's), (59, 41080), (62, 41065), (65, 41044), (68, 41014), (73, 40984), (88, 40909),

Gene: Schnauzer_51 Start: 34925, Stop: 35173, Start Num: 47
Candidate Starts for Schnauzer_51:
(3, 34511), (10, 34718), (12, 34751), (23, 34847), (Start: 47 @34925 has 38 MA's), (Start: 52 @34937 has 1 MA's), (Start: 53 @34943 has 1 MA's), (64, 35021), (73, 35087), (74, 35090),

Gene: Scowl_63 Start: 41099, Stop: 40830, Start Num: 28
Candidate Starts for Scowl_63:
(Start: 28 @41099 has 47 MA's), (Start: 30 @41096 has 151 MA's), (Start: 34 @41084 has 2 MA's), (Start: 53 @41060 has 1 MA's), (58, 41015), (62, 40997), (68, 40946), (88, 40841),

Gene: Seabiscuit_65 Start: 40723, Stop: 40424, Start Num: 28
Candidate Starts for Seabiscuit_65:
(Start: 28 @40723 has 47 MA's), (Start: 30 @40720 has 151 MA's), (Start: 34 @40708 has 2 MA's), (Start: 47 @40675 has 38 MA's), (Start: 53 @40657 has 1 MA's), (59, 40606), (62, 40591), (65, 40570), (68, 40540), (73, 40510),

Gene: Seanderson_64 Start: 43120, Stop: 42836, Start Num: 26
Candidate Starts for Seanderson_64:
(Start: 26 @43120 has 1 MA's), (Start: 30 @43102 has 151 MA's), (Start: 34 @43090 has 2 MA's), (Start: 52 @43075 has 1 MA's), (Start: 53 @43069 has 1 MA's), (59, 43018), (62, 43003), (65, 42982), (68, 42952), (73, 42922), (83, 42877), (88, 42847),

Gene: Shaobing_69 Start: 44159, Stop: 44398, Start Num: 51
Candidate Starts for Shaobing_69:
(Start: 51 @44159 has 136 MA's), (64, 44249), (68, 44285), (71, 44303), (84, 44366),

Gene: ShedlockHolmes_69 Start: 44136, Stop: 44378, Start Num: 51
Candidate Starts for ShedlockHolmes_69:
(Start: 51 @44136 has 136 MA's), (54, 44169), (64, 44226), (72, 44286), (74, 44298),

Gene: ShiaSurprise_67 Start: 43819, Stop: 44061, Start Num: 51
Candidate Starts for ShiaSurprise_67:
(Start: 51 @43819 has 136 MA's), (64, 43909), (80, 44005), (84, 44029),

Gene: ShortQueendom_56 Start: 38806, Stop: 38531, Start Num: 30
Candidate Starts for ShortQueendom_56:
(Start: 28 @38809 has 47 MA's), (Start: 30 @38806 has 151 MA's), (Start: 34 @38794 has 2 MA's), (59, 38713), (62, 38698), (65, 38677), (68, 38647), (73, 38617),

Gene: ShrimpFriedEgg_55 Start: 36172, Stop: 36420, Start Num: 47
Candidate Starts for ShrimpFriedEgg_55:
(Start: 47 @36172 has 38 MA's), (Start: 52 @36184 has 1 MA's), (73, 36334), (74, 36337), (88, 36412),

Gene: Sibs6_64 Start: 39832, Stop: 39533, Start Num: 28
Candidate Starts for Sibs6_64:
(Start: 28 @39832 has 47 MA's), (Start: 30 @39829 has 151 MA's), (Start: 34 @39817 has 2 MA's), (Start: 47 @39784 has 38 MA's), (Start: 53 @39766 has 1 MA's), (59, 39715), (62, 39700), (65, 39679), (68, 39649), (73, 39619),

Gene: Silvafighter_51 Start: 34898, Stop: 35146, Start Num: 47
Candidate Starts for Silvafighter_51:
(3, 34484), (10, 34691), (12, 34724), (23, 34820), (Start: 47 @34898 has 38 MA's), (Start: 52 @34910 has 1 MA's), (Start: 53 @34916 has 1 MA's), (64, 34994), (73, 35060), (74, 35063),

Gene: SirPhilip_66 Start: 44298, Stop: 44537, Start Num: 51
Candidate Starts for SirPhilip_66:
(Start: 51 @44298 has 136 MA's), (64, 44388), (68, 44424), (71, 44442), (73, 44454),

Gene: Skelbel_35 Start: 26608, Stop: 26865, Start Num: 40
Candidate Starts for Skelbel_35:
(7, 26371), (8, 26380), (Start: 40 @26608 has 13 MA's), (56, 26656), (75, 26773),

Gene: SkiPole_70 Start: 42720, Stop: 42421, Start Num: 28
Candidate Starts for SkiPole_70:
(Start: 28 @42720 has 47 MA's), (Start: 30 @42717 has 151 MA's), (Start: 34 @42705 has 2 MA's), (Start: 47 @42672 has 38 MA's), (Start: 53 @42654 has 1 MA's), (62, 42588), (68, 42537), (73, 42507), (88, 42432),

Gene: Skinny_40 Start: 33191, Stop: 33469, Start Num: 43
Candidate Starts for Skinny_40:
(18, 33080), (Start: 43 @33191 has 12 MA's), (Start: 49 @33209 has 30 MA's), (59, 33272), (72, 33359), (73, 33368), (76, 33377),

Gene: Slagathor_64 Start: 43192, Stop: 42926, Start Num: 30
Candidate Starts for Slagathor_64:
(Start: 28 @43195 has 47 MA's), (Start: 30 @43192 has 151 MA's), (Start: 34 @43180 has 2 MA's), (Start: 52 @43165 has 1 MA's), (Start: 53 @43159 has 1 MA's), (59, 43108), (62, 43093), (65, 43072), (68, 43042), (73, 43012),

Gene: Slarp_70 Start: 43377, Stop: 43640, Start Num: 46
Candidate Starts for Slarp_70:
(Start: 46 @43377 has 17 MA's), (Start: 52 @43392 has 1 MA's), (64, 43479), (78, 43575), (88, 43629),

Gene: SlimJimmy_38 Start: 32763, Stop: 33023, Start Num: 49
Candidate Starts for SlimJimmy_38:
(18, 32634), (Start: 43 @32745 has 12 MA's), (Start: 49 @32763 has 30 MA's), (59, 32826), (72, 32913), (73, 32922), (76, 32931),

Gene: Slimphazie_67 Start: 43920, Stop: 44162, Start Num: 51
Candidate Starts for Slimphazie_67:
(Start: 51 @43920 has 136 MA's), (64, 44010), (80, 44106), (84, 44130),

Gene: Smairt_64 Start: 43635, Stop: 43369, Start Num: 30
Candidate Starts for Smairt_64:
(Start: 28 @43638 has 47 MA's), (Start: 30 @43635 has 151 MA's), (Start: 34 @43623 has 2 MA's), (Start: 53 @43602 has 1 MA's), (59, 43551), (62, 43536), (65, 43515), (68, 43485), (73, 43455),

Gene: Smeagol_64 Start: 43015, Stop: 42749, Start Num: 36
Candidate Starts for Smeagol_64:
(Start: 36 @43015 has 1 MA's), (Start: 39 @43003 has 4 MA's), (Start: 53 @42982 has 1 MA's), (59, 42931), (62, 42916), (65, 42895), (68, 42865), (73, 42835),

Gene: Smurph_50 Start: 34925, Stop: 35173, Start Num: 47
Candidate Starts for Smurph_50:
(3, 34511), (10, 34718), (12, 34751), (23, 34847), (Start: 47 @34925 has 38 MA's), (Start: 52 @34937 has 1 MA's), (Start: 53 @34943 has 1 MA's), (64, 35021), (73, 35087), (74, 35090),

Gene: Snazzy_60 Start: 40262, Stop: 39987, Start Num: 30
Candidate Starts for Snazzy_60:
(Start: 28 @40265 has 47 MA's), (Start: 30 @40262 has 151 MA's), (Start: 34 @40250 has 2 MA's), (59, 40169), (62, 40154), (65, 40133), (68, 40103), (73, 40073),

Gene: Snek_33 Start: 23631, Stop: 23897, Start Num: 31
Candidate Starts for Snek_33:
(7, 23421), (8, 23430), (Start: 31 @23631 has 2 MA's), (74, 23814),

Gene: Snekmaggedon_49 Start: 34464, Stop: 34712, Start Num: 47
Candidate Starts for Snekmaggedon_49:
(Start: 47 @34464 has 38 MA's), (Start: 52 @34476 has 1 MA's), (73, 34626), (74, 34629), (88, 34704),

Gene: Snenia_31 Start: 28785, Stop: 29051, Start Num: 49
Candidate Starts for Snenia_31:
(Start: 49 @28785 has 30 MA's), (Start: 53 @28797 has 1 MA's), (55, 28830),

Gene: SoSeph_61 Start: 42799, Stop: 43047, Start Num: 51
Candidate Starts for SoSeph_61:
(Start: 51 @42799 has 136 MA's), (62, 42874), (72, 42946), (77, 42970),

Gene: Solon_61 Start: 40838, Stop: 40563, Start Num: 30
Candidate Starts for Solon_61:
(Start: 28 @40841 has 47 MA's), (Start: 30 @40838 has 151 MA's), (Start: 34 @40826 has 2 MA's), (Start: 53 @40796 has 1 MA's), (59, 40745), (62, 40730), (65, 40709), (68, 40679), (73, 40649), (88, 40574),

Gene: Sooty_31 Start: 22496, Stop: 22762, Start Num: 41
Candidate Starts for Sooty_31:
(Start: 41 @22496 has 18 MA's), (45, 22505), (Start: 51 @22511 has 136 MA's), (61, 22574),

Gene: Sorpresa_59 Start: 40701, Stop: 40444, Start Num: 42
Candidate Starts for Sorpresa_59:
(Start: 42 @40701 has 10 MA's), (Start: 52 @40683 has 1 MA's), (Start: 53 @40677 has 1 MA's), (59, 40626), (62, 40611), (65, 40590), (68, 40560), (73, 40530), (88, 40455),

Gene: SpecialK_31 Start: 22493, Stop: 22759, Start Num: 41
Candidate Starts for SpecialK_31:
(Start: 41 @22493 has 18 MA's), (Start: 51 @22508 has 136 MA's), (61, 22571), (81, 22691),

Gene: SpikeBT_60 Start: 40904, Stop: 40638, Start Num: 30
Candidate Starts for SpikeBT_60:
(Start: 28 @40907 has 47 MA's), (Start: 30 @40904 has 151 MA's), (Start: 34 @40892 has 2 MA's), (Start: 53 @40871 has 1 MA's), (59, 40820), (62, 40805), (65, 40784), (68, 40754), (73, 40724), (88, 40649),

Gene: Spinach_55 Start: 36172, Stop: 36420, Start Num: 47

Candidate Starts for Spinach_55:
(Start: 47 @36172 has 38 MA's), (Start: 52 @36184 has 1 MA's), (73, 36334), (74, 36337), (88, 36412),

Gene: Spock_66 Start: 43623, Stop: 43865, Start Num: 51
Candidate Starts for Spock_66:
(Start: 51 @43623 has 136 MA's), (64, 43713), (80, 43809), (84, 43833),

Gene: SpongeBob_49 Start: 34464, Stop: 34712, Start Num: 47
Candidate Starts for SpongeBob_49:
(Start: 47 @34464 has 38 MA's), (Start: 52 @34476 has 1 MA's), (73, 34626), (74, 34629), (88, 34704),

Gene: Squee_63 Start: 41158, Stop: 40892, Start Num: 30
Candidate Starts for Squee_63:
(Start: 28 @41161 has 47 MA's), (Start: 30 @41158 has 151 MA's), (Start: 34 @41146 has 2 MA's), (Start: 53 @41125 has 1 MA's), (62, 41059), (65, 41038), (66, 41017), (68, 41008), (73, 40978), (88, 40903),

Gene: StewieG_56 Start: 37645, Stop: 37379, Start Num: 30
Candidate Starts for StewieG_56:
(Start: 28 @37648 has 47 MA's), (Start: 30 @37645 has 151 MA's), (Start: 34 @37633 has 2 MA's), (Start: 53 @37612 has 1 MA's), (59, 37561), (62, 37546), (65, 37525), (68, 37495),

Gene: Stinson_68 Start: 44248, Stop: 44490, Start Num: 51
Candidate Starts for Stinson_68:
(Start: 51 @44248 has 136 MA's), (64, 44338), (80, 44434), (84, 44458),

Gene: Strobilo_70 Start: 46068, Stop: 46313, Start Num: 51
Candidate Starts for Strobilo_70:
(27, 46005), (Start: 51 @46068 has 136 MA's), (64, 46158), (74, 46227),

Gene: StrongArm_60 Start: 42040, Stop: 41774, Start Num: 30
Candidate Starts for StrongArm_60:
(Start: 28 @42043 has 47 MA's), (Start: 30 @42040 has 151 MA's), (Start: 34 @42028 has 2 MA's), (Start: 53 @42004 has 1 MA's), (58, 41959), (62, 41941), (68, 41890), (88, 41785),

Gene: Stuu_31 Start: 22587, Stop: 22853, Start Num: 41
Candidate Starts for Stuu_31:
(Start: 41 @22587 has 18 MA's), (Start: 51 @22602 has 136 MA's), (61, 22665), (81, 22785),

Gene: Sue2_34 Start: 25374, Stop: 25640, Start Num: 40
Candidate Starts for Sue2_34:
(7, 25137), (8, 25146), (13, 25221), (Start: 40 @25374 has 13 MA's), (74, 25557), (85, 25614),

Gene: Sulley_66 Start: 43683, Stop: 43925, Start Num: 51
Candidate Starts for Sulley_66:
(Start: 51 @43683 has 136 MA's), (64, 43773), (80, 43869), (84, 43893),

Gene: Sumter_58 Start: 41278, Stop: 41012, Start Num: 30
Candidate Starts for Sumter_58:
(Start: 28 @41281 has 47 MA's), (Start: 30 @41278 has 151 MA's), (Start: 34 @41266 has 2 MA's), (Start: 52 @41251 has 1 MA's), (Start: 53 @41245 has 1 MA's), (59, 41194), (62, 41179), (65, 41158), (68, 41128), (73, 41098), (88, 41023),

Gene: Sunshine924_67 Start: 41911, Stop: 41645, Start Num: 30
Candidate Starts for Sunshine924_67:
(Start: 28 @41914 has 47 MA's), (Start: 30 @41911 has 151 MA's), (Start: 34 @41899 has 2 MA's), (Start: 53 @41878 has 1 MA's), (62, 41812), (65, 41791), (68, 41761), (73, 41731), (88, 41656),

Gene: SwissCheese_65 Start: 41123, Stop: 40827, Start Num: 30
Candidate Starts for SwissCheese_65:
(Start: 28 @41126 has 47 MA's), (Start: 30 @41123 has 151 MA's), (Start: 34 @41111 has 2 MA's), (Start: 47 @41078 has 38 MA's), (Start: 53 @41060 has 1 MA's), (59, 41009), (62, 40994), (65, 40973), (68, 40943), (73, 40913), (88, 40838),

Gene: Switzer_63 Start: 42783, Stop: 42412, Start Num: 14
Candidate Starts for Switzer_63:
(Start: 14 @42783 has 1 MA's), (15, 42780), (19, 42735), (21, 42717), (Start: 28 @42681 has 47 MA's), (Start: 30 @42678 has 151 MA's), (Start: 34 @42666 has 2 MA's), (Start: 53 @42645 has 1 MA's), (59, 42594), (62, 42579), (65, 42558), (68, 42528), (73, 42498), (88, 42423),

Gene: Swole_63 Start: 41087, Stop: 40812, Start Num: 30
Candidate Starts for Swole_63:
(Start: 28 @41090 has 47 MA's), (Start: 30 @41087 has 151 MA's), (Start: 34 @41075 has 2 MA's), (Start: 53 @41045 has 1 MA's), (59, 40994), (62, 40979), (65, 40958), (68, 40928), (73, 40898),

Gene: TClif_68 Start: 43725, Stop: 43964, Start Num: 51
Candidate Starts for TClif_68:
(Start: 51 @43725 has 136 MA's), (Start: 53 @43734 has 1 MA's), (64, 43815), (74, 43884), (84, 43932),

Gene: TM4_67 Start: 40730, Stop: 40975, Start Num: 51
Candidate Starts for TM4_67:
(1, 39989), (29, 40673), (32, 40679), (Start: 51 @40730 has 136 MA's), (64, 40820), (74, 40889), (80, 40913), (89, 40967),

Gene: Tachez_66 Start: 43467, Stop: 43709, Start Num: 51
Candidate Starts for Tachez_66:
(Start: 51 @43467 has 136 MA's), (64, 43557), (80, 43653), (84, 43677),

Gene: Talia1610_108 Start: 86506, Stop: 86754, Start Num: 49
Candidate Starts for Talia1610_108:
(Start: 49 @86506 has 30 MA's), (Start: 52 @86512 has 1 MA's), (Start: 53 @86518 has 1 MA's),

Gene: Tallboi_33 Start: 25971, Stop: 26237, Start Num: 38
Candidate Starts for Tallboi_33:
(6, 25716), (9, 25752), (Start: 38 @25971 has 3 MA's), (74, 26154),

Gene: Tapioca_52 Start: 34891, Stop: 35139, Start Num: 47
Candidate Starts for Tapioca_52:
(Start: 47 @34891 has 38 MA's), (Start: 52 @34903 has 1 MA's), (73, 35053), (74, 35056), (88, 35131),

Gene: Taquito_69 Start: 43582, Stop: 43845, Start Num: 46
Candidate Starts for Taquito_69:
(Start: 46 @43582 has 17 MA's), (Start: 52 @43597 has 1 MA's), (64, 43684), (78, 43780), (88, 43834),

Gene: Target_64 Start: 41123, Stop: 40848, Start Num: 30

Candidate Starts for Target_64:
(Start: 28 @41126 has 47 MA's), (Start: 30 @41123 has 151 MA's), (Start: 34 @41111 has 2 MA's), (Start: 53 @41081 has 1 MA's), (59, 41030), (62, 41015), (65, 40994), (68, 40964), (73, 40934), (88, 40859),

Gene: Tasp14_66 Start: 43218, Stop: 42919, Start Num: 28
Candidate Starts for Tasp14_66:
(Start: 28 @43218 has 47 MA's), (Start: 30 @43215 has 151 MA's), (Start: 34 @43203 has 2 MA's), (Start: 47 @43170 has 38 MA's), (Start: 53 @43152 has 1 MA's), (59, 43101), (62, 43086), (65, 43065), (68, 43035), (73, 43005), (88, 42930),

Gene: Teodoridan_60 Start: 40295, Stop: 40029, Start Num: 30
Candidate Starts for Teodoridan_60:
(Start: 30 @40295 has 151 MA's), (Start: 34 @40283 has 2 MA's), (Start: 53 @40262 has 1 MA's), (59, 40211), (62, 40196), (65, 40175), (68, 40145), (73, 40115),

Gene: Tessdabest_51 Start: 34922, Stop: 35170, Start Num: 47
Candidate Starts for Tessdabest_51:
(3, 34508), (10, 34715), (12, 34748), (23, 34844), (Start: 47 @34922 has 38 MA's), (Start: 52 @34934 has 1 MA's), (Start: 53 @34940 has 1 MA's), (64, 35018), (73, 35084), (74, 35087),

Gene: TheloniousMonk_65 Start: 43428, Stop: 43162, Start Num: 30
Candidate Starts for TheloniousMonk_65:
(Start: 28 @43431 has 47 MA's), (Start: 30 @43428 has 151 MA's), (Start: 34 @43416 has 2 MA's), (Start: 53 @43392 has 1 MA's), (58, 43347), (62, 43329), (68, 43278), (83, 43203), (88, 43173),

Gene: Thor_61 Start: 40522, Stop: 40256, Start Num: 30
Candidate Starts for Thor_61:
(Start: 28 @40525 has 47 MA's), (Start: 30 @40522 has 151 MA's), (Start: 34 @40510 has 2 MA's), (Start: 52 @40495 has 1 MA's), (Start: 53 @40489 has 1 MA's), (59, 40438), (62, 40423), (65, 40402), (68, 40372), (73, 40342), (88, 40267),

Gene: Thyatira_63 Start: 44764, Stop: 45012, Start Num: 51
Candidate Starts for Thyatira_63:
(Start: 51 @44764 has 136 MA's), (62, 44839), (72, 44911), (77, 44935),

Gene: Tian_33 Start: 26378, Stop: 26620, Start Num: 44
Candidate Starts for Tian_33:
(Start: 44 @26378 has 3 MA's),

Gene: Tierra_70 Start: 44265, Stop: 44504, Start Num: 51
Candidate Starts for Tierra_70:
(24, 44181), (Start: 51 @44265 has 136 MA's), (Start: 53 @44274 has 1 MA's), (64, 44355), (71, 44409),

Gene: TingHuaYa_70 Start: 43428, Stop: 43676, Start Num: 51
Candidate Starts for TingHuaYa_70:
(Start: 51 @43428 has 136 MA's), (64, 43518), (80, 43614), (84, 43638),

Gene: Topgun_60 Start: 40325, Stop: 40029, Start Num: 30
Candidate Starts for Topgun_60:
(Start: 28 @40328 has 47 MA's), (Start: 30 @40325 has 151 MA's), (Start: 34 @40313 has 2 MA's), (Start: 47 @40280 has 38 MA's), (Start: 53 @40262 has 1 MA's), (62, 40196), (65, 40175), (68,

40145), (73, 40115),

Gene: Topper_66 Start: 43622, Stop: 43864, Start Num: 51
Candidate Starts for Topper_66:
(Start: 51 @43622 has 136 MA's), (64, 43712), (80, 43808), (84, 43832),

Gene: Tortoise12_49 Start: 33608, Stop: 33856, Start Num: 47
Candidate Starts for Tortoise12_49:
(3, 33194), (10, 33401), (12, 33434), (23, 33530), (Start: 47 @33608 has 38 MA's), (Start: 52 @33620 has 1 MA's), (Start: 53 @33626 has 1 MA's), (64, 33704), (73, 33770), (74, 33773),

Gene: Tote_58 Start: 38354, Stop: 38079, Start Num: 30
Candidate Starts for Tote_58:
(Start: 28 @38357 has 47 MA's), (Start: 30 @38354 has 151 MA's), (Start: 34 @38342 has 2 MA's), (Start: 53 @38312 has 1 MA's), (59, 38261), (62, 38246), (65, 38225), (68, 38195), (73, 38165),

Gene: TpudiCK_41 Start: 32779, Stop: 33039, Start Num: 49
Candidate Starts for TpudiCK_41:
(18, 32650), (Start: 43 @32761 has 12 MA's), (Start: 49 @32779 has 30 MA's), (59, 32842), (72, 32929), (73, 32938), (76, 32947),

Gene: Traft412_64 Start: 41743, Stop: 41486, Start Num: 42
Candidate Starts for Traft412_64:
(Start: 42 @41743 has 10 MA's), (Start: 52 @41725 has 1 MA's), (Start: 53 @41719 has 1 MA's), (59, 41668), (62, 41653), (65, 41632), (68, 41602), (73, 41572),

Gene: Treddle_63 Start: 42567, Stop: 42298, Start Num: 28
Candidate Starts for Treddle_63:
(Start: 28 @42567 has 47 MA's), (Start: 30 @42564 has 151 MA's), (Start: 34 @42552 has 2 MA's), (Start: 53 @42531 has 1 MA's), (59, 42480), (62, 42465), (65, 42444), (66, 42423), (68, 42414), (73, 42384),

Gene: TriFive_31 Start: 28784, Stop: 29050, Start Num: 49
Candidate Starts for TriFive_31:
(Start: 49 @28784 has 30 MA's), (Start: 53 @28796 has 1 MA's), (55, 28829),

Gene: TribleTrouble_68 Start: 44625, Stop: 44867, Start Num: 51
Candidate Starts for TribleTrouble_68:
(Start: 51 @44625 has 136 MA's), (54, 44658), (64, 44715), (74, 44787),

Gene: Tripl3t_65 Start: 43651, Stop: 43394, Start Num: 42
Candidate Starts for Tripl3t_65:
(Start: 42 @43651 has 10 MA's), (Start: 52 @43633 has 1 MA's), (Start: 53 @43627 has 1 MA's), (59, 43576), (62, 43561), (65, 43540), (68, 43510), (73, 43480), (88, 43405),

Gene: Trouble_63 Start: 41668, Stop: 41399, Start Num: 28
Candidate Starts for Trouble_63:
(Start: 28 @41668 has 47 MA's), (Start: 30 @41665 has 151 MA's), (Start: 34 @41653 has 2 MA's), (Start: 53 @41632 has 1 MA's), (62, 41566), (65, 41545), (66, 41524), (68, 41515), (73, 41485),

Gene: TruffulaTree_67 Start: 43916, Stop: 44158, Start Num: 51
Candidate Starts for TruffulaTree_67:
(Start: 51 @43916 has 136 MA's), (64, 44006), (80, 44102), (84, 44126),

Gene: Turj99_60 Start: 42063, Stop: 41797, Start Num: 30
Candidate Starts for Turj99_60:
(Start: 28 @42066 has 47 MA's), (Start: 30 @42063 has 151 MA's), (Start: 34 @42051 has 2 MA's), (Start: 52 @42036 has 1 MA's), (Start: 53 @42030 has 1 MA's), (59, 41979), (62, 41964), (65, 41943), (68, 41913), (73, 41883), (88, 41808),

Gene: Tweety19_33 Start: 23630, Stop: 23896, Start Num: 31
Candidate Starts for Tweety19_33:
(7, 23420), (8, 23429), (Start: 31 @23630 has 2 MA's), (74, 23813),

Gene: Twitch_66 Start: 43624, Stop: 43866, Start Num: 51
Candidate Starts for Twitch_66:
(Start: 51 @43624 has 136 MA's), (64, 43714), (80, 43810), (84, 43834),

Gene: TwoPeat_63 Start: 41915, Stop: 41649, Start Num: 30
Candidate Starts for TwoPeat_63:
(Start: 28 @41918 has 47 MA's), (Start: 30 @41915 has 151 MA's), (Start: 34 @41903 has 2 MA's), (Start: 52 @41888 has 1 MA's), (Start: 53 @41882 has 1 MA's), (59, 41831), (62, 41816), (65, 41795), (68, 41765), (73, 41735),

Gene: TyDawg_39 Start: 32762, Stop: 33040, Start Num: 43
Candidate Starts for TyDawg_39:
(18, 32651), (Start: 43 @32762 has 12 MA's), (Start: 49 @32780 has 30 MA's), (59, 32843), (72, 32930), (73, 32939), (76, 32948),

Gene: U2_60 Start: 41888, Stop: 41592, Start Num: 30
Candidate Starts for U2_60:
(Start: 28 @41891 has 47 MA's), (Start: 30 @41888 has 151 MA's), (Start: 34 @41876 has 2 MA's), (Start: 47 @41843 has 38 MA's), (Start: 53 @41825 has 1 MA's), (59, 41774), (62, 41759), (65, 41738), (68, 41708), (73, 41678), (88, 41603),

Gene: Unicorn_68 Start: 43391, Stop: 43630, Start Num: 51
Candidate Starts for Unicorn_68:
(Start: 51 @43391 has 136 MA's), (Start: 53 @43400 has 1 MA's), (64, 43481), (74, 43550),

Gene: Validus_71 Start: 44494, Stop: 44733, Start Num: 51
Candidate Starts for Validus_71:
(Start: 51 @44494 has 136 MA's), (64, 44584), (71, 44638),

Gene: Veliki_68 Start: 43889, Stop: 44131, Start Num: 51
Candidate Starts for Veliki_68:
(Start: 51 @43889 has 136 MA's), (64, 43979), (80, 44075), (84, 44099),

Gene: Violet_60 Start: 42922, Stop: 42656, Start Num: 30
Candidate Starts for Violet_60:
(Start: 28 @42925 has 47 MA's), (Start: 30 @42922 has 151 MA's), (Start: 34 @42910 has 2 MA's), (Start: 53 @42889 has 1 MA's), (59, 42838), (62, 42823), (65, 42802), (68, 42772), (73, 42742),

Gene: ViviJ_59 Start: 40530, Stop: 40778, Start Num: 51
Candidate Starts for ViviJ_59:
(Start: 51 @40530 has 136 MA's), (69, 40662), (74, 40692), (82, 40725),

Gene: Warda_33 Start: 24726, Stop: 24992, Start Num: 40
Candidate Starts for Warda_33:
(6, 24468), (9, 24504), (Start: 40 @24726 has 13 MA's), (74, 24909),

Gene: Waterfoul_62 Start: 42861, Stop: 43109, Start Num: 51
Candidate Starts for Waterfoul_62:
(Start: 51 @42861 has 136 MA's), (62, 42936), (72, 43008), (77, 43032),

Gene: Watermelon_62 Start: 40661, Stop: 40362, Start Num: 28
Candidate Starts for Watermelon_62:
(Start: 28 @40661 has 47 MA's), (Start: 30 @40658 has 151 MA's), (Start: 34 @40646 has 2 MA's), (Start: 47 @40613 has 38 MA's), (Start: 53 @40595 has 1 MA's), (59, 40544), (62, 40529), (65, 40508), (68, 40478), (73, 40448),

Gene: Wheeler_64 Start: 41819, Stop: 41544, Start Num: 30
Candidate Starts for Wheeler_64:
(Start: 30 @41819 has 151 MA's), (Start: 34 @41807 has 2 MA's), (59, 41726), (62, 41711), (65, 41690), (68, 41660), (73, 41630), (88, 41555),

Gene: Whitspit_58 Start: 39003, Stop: 38737, Start Num: 30
Candidate Starts for Whitspit_58:
(Start: 28 @39006 has 47 MA's), (Start: 30 @39003 has 151 MA's), (Start: 34 @38991 has 2 MA's), (Start: 53 @38970 has 1 MA's), (59, 38919), (62, 38904), (65, 38883), (68, 38853), (73, 38823), (88, 38748),

Gene: Wildwest_33 Start: 24524, Stop: 24790, Start Num: 40
Candidate Starts for Wildwest_33:
(6, 24266), (9, 24302), (Start: 40 @24524 has 13 MA's), (74, 24707),

Gene: Wilkins_61 Start: 40255, Stop: 39959, Start Num: 30
Candidate Starts for Wilkins_61:
(Start: 28 @40258 has 47 MA's), (Start: 30 @40255 has 151 MA's), (Start: 34 @40243 has 2 MA's), (Start: 47 @40210 has 38 MA's), (Start: 53 @40192 has 1 MA's), (62, 40126), (65, 40105), (68, 40075), (73, 40045),

Gene: Wintermute_70 Start: 43607, Stop: 43870, Start Num: 46
Candidate Starts for Wintermute_70:
(Start: 46 @43607 has 17 MA's), (Start: 52 @43622 has 1 MA's), (64, 43709), (78, 43805), (88, 43859),

Gene: Xerxes_50 Start: 34922, Stop: 35170, Start Num: 47
Candidate Starts for Xerxes_50:
(3, 34508), (10, 34715), (12, 34748), (23, 34844), (Start: 47 @34922 has 38 MA's), (Start: 52 @34934 has 1 MA's), (Start: 53 @34940 has 1 MA's), (64, 35018), (73, 35084), (74, 35087),

Gene: YasnayaPolyana_69 Start: 43433, Stop: 43696, Start Num: 46
Candidate Starts for YasnayaPolyana_69:
(Start: 46 @43433 has 17 MA's), (Start: 52 @43448 has 1 MA's), (64, 43535), (78, 43631), (88, 43685),

Gene: YoureAdopted_66 Start: 44035, Stop: 44277, Start Num: 51
Candidate Starts for YoureAdopted_66:
(Start: 51 @44035 has 136 MA's), (64, 44125), (80, 44221), (84, 44245),

Gene: Yunkel11_71 Start: 43949, Stop: 44191, Start Num: 51

Candidate Starts for Yunkel11_71:
(22, 43871), (Start: 51 @43949 has 136 MA's), (80, 44135),

Gene: Zabiza_61 Start: 39772, Stop: 40014, Start Num: 51
Candidate Starts for Zabiza_61:
(Start: 51 @39772 has 136 MA's), (64, 39862), (80, 39958), (84, 39982),

Gene: Zavala_69 Start: 44194, Stop: 44436, Start Num: 51
Candidate Starts for Zavala_69:
(Start: 51 @44194 has 136 MA's), (64, 44284), (80, 44380), (84, 44404),

Gene: Zeeculate_59 Start: 41408, Stop: 41112, Start Num: 30
Candidate Starts for Zeeculate_59:
(20, 41465), (Start: 30 @41408 has 151 MA's), (Start: 34 @41396 has 2 MA's), (Start: 47 @41363 has 38 MA's), (Start: 53 @41345 has 1 MA's), (59, 41294), (62, 41279), (65, 41258), (68, 41228), (73, 41198),

Gene: Zephyr_63 Start: 40825, Stop: 40529, Start Num: 30
Candidate Starts for Zephyr_63:
(Start: 28 @40828 has 47 MA's), (Start: 30 @40825 has 151 MA's), (Start: 34 @40813 has 2 MA's), (Start: 47 @40780 has 38 MA's), (Start: 53 @40762 has 1 MA's), (59, 40711), (62, 40696), (65, 40675), (68, 40645), (73, 40615),

Gene: Zeuska_67 Start: 44044, Stop: 43775, Start Num: 30
Candidate Starts for Zeuska_67:
(Start: 28 @44047 has 47 MA's), (Start: 30 @44044 has 151 MA's), (Start: 34 @44032 has 2 MA's), (62, 43942), (65, 43921), (68, 43891), (73, 43861),

Gene: ZoeJ_68 Start: 45471, Stop: 45716, Start Num: 51
Candidate Starts for ZoeJ_68:
(29, 45414), (32, 45420), (Start: 51 @45471 has 136 MA's), (64, 45561), (68, 45597), (74, 45630),