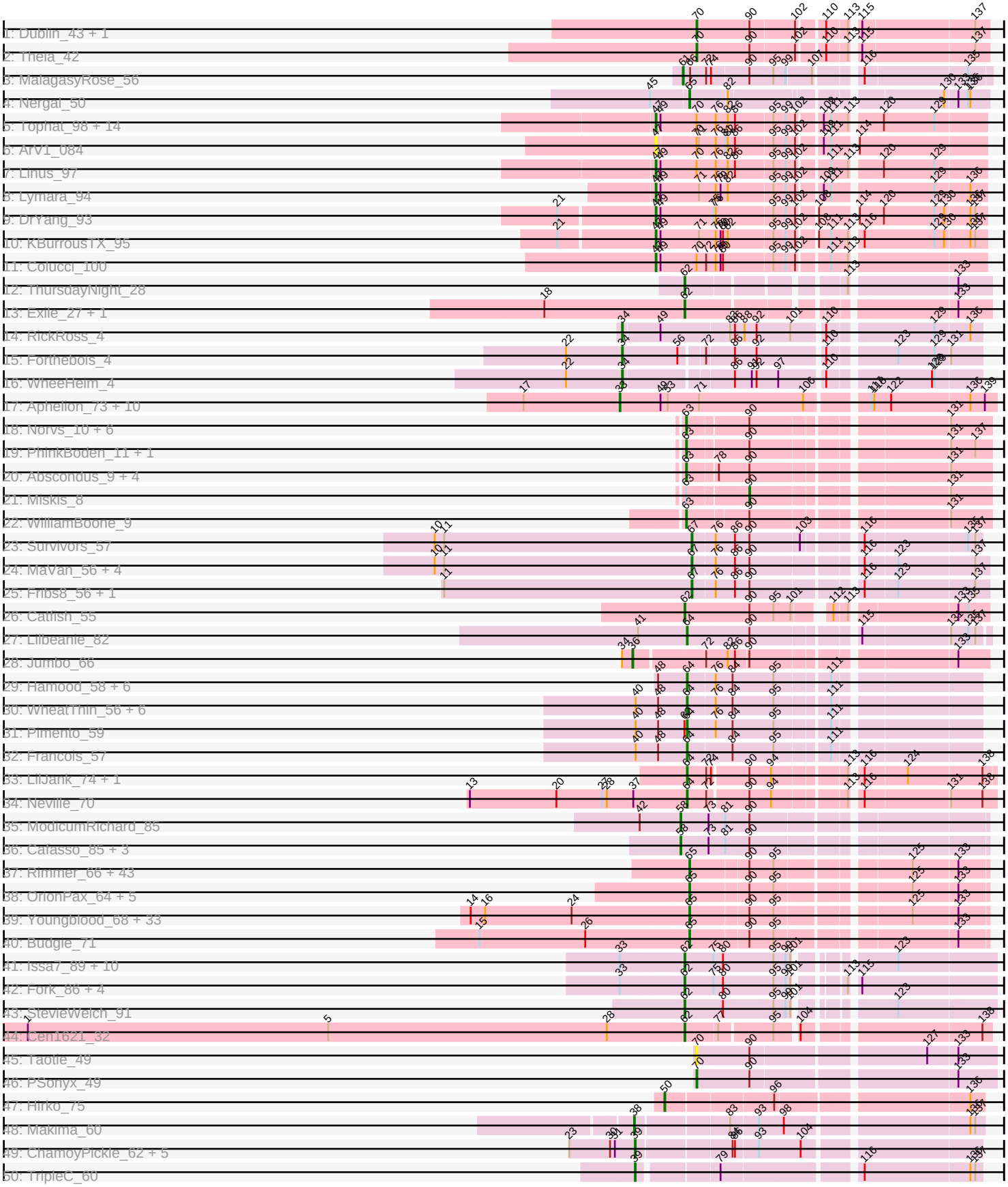
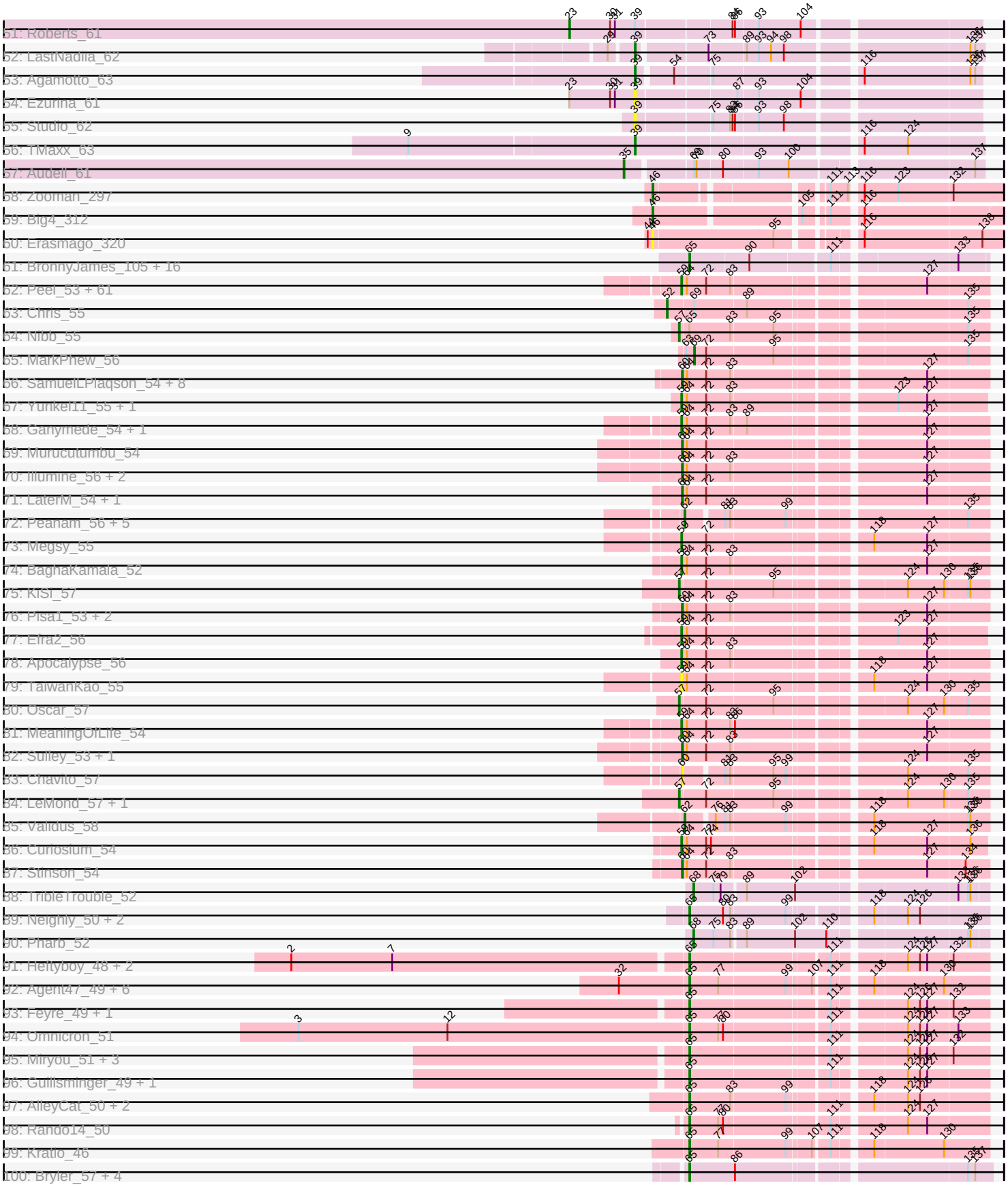
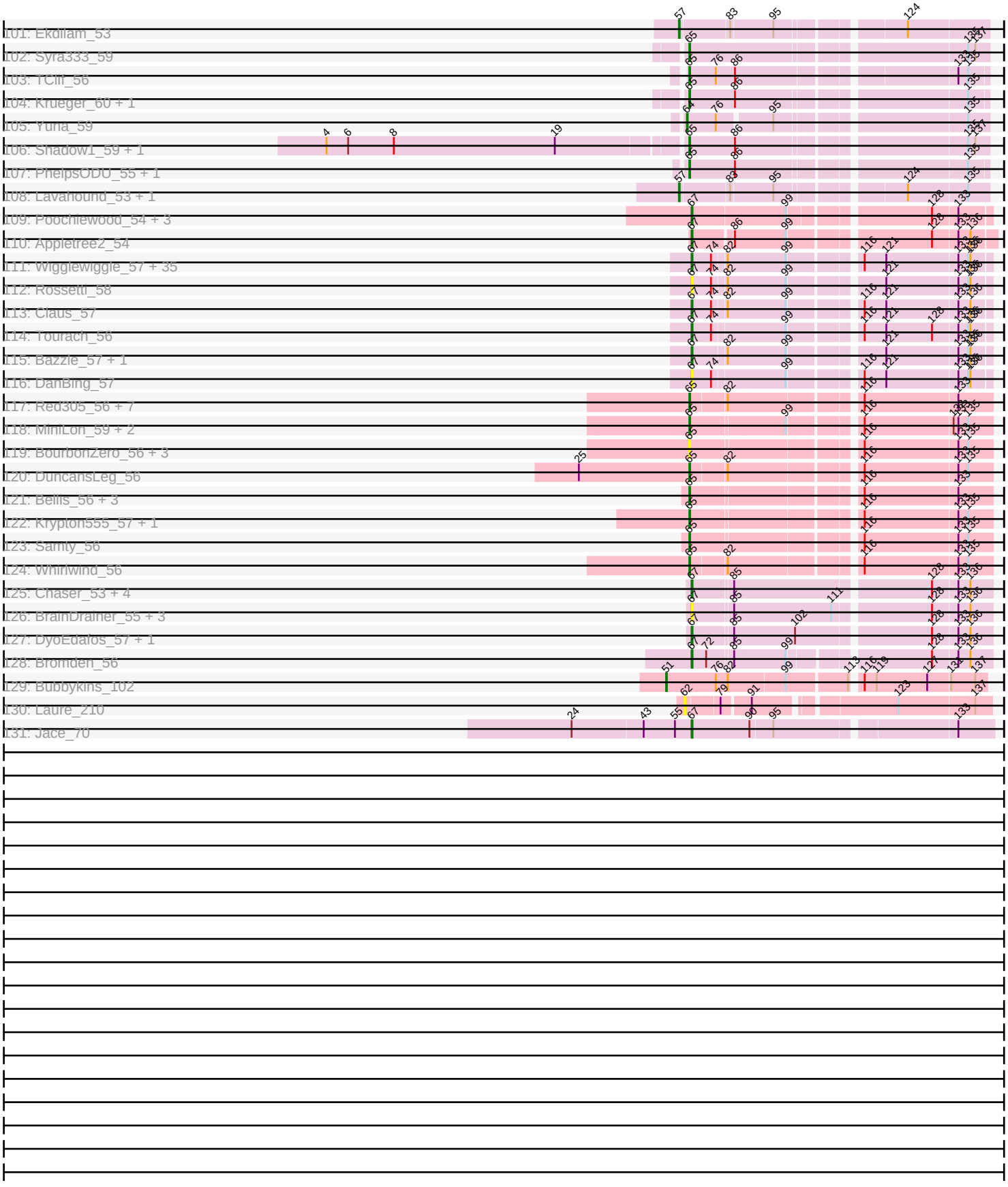
Pham 343484


1: Dublin_43 + 1
2: Thela_42
3: MalagasyRose_56
4: Nergal_50
5: Tophat_98 + 14
6: ArV1_084
7: Linus_97
8: Lymara_94
9: DrYang_93
10: KBurrousTX_95
11: Colucci_100
12: ThursdayNight_28
13: Exile_27 + 1
14: RickRoss_4
15: Forthebois_4
16: WheeHeim_4
17: Aphelion_73 + 10
18: Norvs_10 + 6
19: PhinkBoden_11 + 1
20: Abscondus_9 + 4
21: Miskis_8
22: WilliamBoone_9
23: Survivors_57
24: MaVan_56 + 4
25: Fribs8_56 + 1
26: Catfish_55
27: Elibeanie_82
28: Jumbo_66
29: Hamood_58 + 6
30: WheatThin_56 + 6
31: Pimento_59
32: Francois_57
33: LilJank_74 + 1
34: Neville_70
35: ModicumRichard_85
36: Carasso_85 + 3
37: Rimmer_66 + 43
38: OrionPax_64 + 5
39: Youngblood_68 + 33
40: Budgie_71
41: Issa7_89 + 10
42: Fork_86 + 4
43: StevieWelch_91
44: Cen1621_32
45: Taotie_49
46: PSonyx_49
47: Hirko_75
48: Makima_60
49: ChamoyPickle_62 + 5
50: TripleC_60

Pham 343484


51: Roberts_61
52: LastNadilla_62
53: Agamotto_63
54: Ezurina_61
55: Studio_62
56: TMaxx_63
57: Audell_61
58: Zooman_297
59: Big4_312
60: Erasmago_320
61: BronnyJames_105 + 16
62: Peel_53 + 61
63: Chris_55
64: Nibb_55
65: MarkPhew_56
66: SamuelLPlaqson_54 + 8
67: Yunkel11_55 + 1
68: Ganymede_54 + 1
69: Mururutumbu_54
70: Illumine_56 + 2
71: LaterM_54 + 1
72: Peaham_56 + 5
73: Megsy_55
74: BaghaKamala_52
75: KISI_57
76: Pisa1_53 + 2
77: Elra2_56
78: Apocalypse_56
79: TaiwanKao_55
80: Oscar_57
81: MeaningOfLife_54
82: Sulley_53 + 1
83: Chavito_57
84: LeMond_57 + 1
85: Validus_58
86: Curiosium_54
87: Stinson_54
88: TribleTrouble_52
89: Neighly_50 + 2
90: Pharb_52
91: Hellyboy_48 + 2
92: Agent47_49 + 6
93: Feyre_49 + 1
94: Omnicron_51
95: Miryou_51 + 3
96: Gullsminger_49 + 1
97: AlleyCat_50 + 2
98: Rando14_50
99: Kratio_46
100: Bryler_57 + 4

Pham 343484


101: Ekdilam_53
102: Syra333_59
103: TCM_56
104: Krueger_60 + 1
105: Yuna_59
106: Shadow1_59 + 1
107: PhelpsODO_55 + 1
108: Lavahound_53 + 1
109: Poochiewood_54 + 3
110: Appletree2_54
111: Wigglewiggle_57 + 35
112: Rossetti_58
113: Claus_57
114: Tourach_56
115: Bazzle_57 + 1
116: DanBing_57
117: Red305_56 + 7
118: MiniLon_59 + 2
119: BourbonZero_56 + 3
120: DuncansLeg_56
121: Bellis_56 + 3
122: Krypton555_57 + 1
123: Samly_56
124: Whirlwind_56
125: Chaser_53 + 4
126: BrainDrainer_55 + 3
127: DyoEdalos_57 + 1
128: Bromden_56
129: Bubbykins_102
130: Laure_210
131: Jace_70

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 343484 Report

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

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

Pham number 343484 has 476 members, 62 are drafts.

Phages represented in each track:
- Track 1 : Dublin_43, MarysWell_43
- Track 2 : Theia_42
- Track 3 : MalagasyRose_56
- Track 4 : Nergal_50
- Track 5 : Tophat_98, HumptyDumpty_97, Chubster_97, Scavito_98, EdgarPoe_96, Conboy_95, PrincessTrina_98, JayCookie_97, Chocolat_97, JaNo_96, MoyaNatalis_96, Kabreeze_97, Mordred_97, RosiePosie_97, Chipper1996_980
- Track 6 : ArV1_084
- Track 7 : Linus_97
- Track 8 : Lymara_94
- Track 9 : DrYang_93
- Track 10 : KBurrousTX_95
- Track 11 : Colucci_100
- Track 12 : ThursdayNight_28
- Track 13 : Exile_27, Soondubu_27
- Track 14 : RickRoss_4
- Track 15 : Forthebois_4
- Track 16 : WheeHeim_4
- Track 17 : Aphelion_73, Norvs_74, Lozinak_74, Abscondus_73, Smoothie_75, PhinkBoden_73, Geeche_72, Cucurbita_75, Engineer_75, Toniann_74, Bachita_75
- Track 18 : Norvs_10, Smoothie_10, Lozinak_10, Toniann_10, Engineer_10, Aphelion_10, Cucurbita_9
- Track 19 : PhinkBoden_11, Geeche_9
- Track 20 : Abscondus_9, Dusty_9, ClubL_10, Culver_9, Bachita_11
- Track 21 : Miskis_8
- Track 22 : WilliamBoone_9
- Track 23 : Survivors_57
- Track 24 : MaVan_56, Zareef_57, Wolfwood_56, Wallaby_58, Azira_56
- Track 25 : Fribs8_56, Nibbles_55
- Track 26 : Catfish_55
- Track 27 : Lilbeanie_82
- Track 28 : Jumbo_66

• Track 29 : Hamood_58, Chop_58, DelRio_58, GrandSlam_58, NancyRae_56, Bock_58, Ayotoya_58
• Track 30 : WheatThin_56, Parada_57, BetterKatz_57, SussRoloMann_57, Nadeem_57, Brylie_57, Mulch_57
• Track 31 : Pimento_59
• Track 32 : Francois_57
• Track 33 : LilJank_74, Trax_72
• Track 34 : Neville_70
• Track 35 : ModicumRichard_85
• Track 36 : Cafasso_85, Aleemily_84, Morgana_92, ObLaDi_85
• Track 37 : Rimmer_66, Quallification_66, SirDuracell_64, GoldenSpark_69, Icee_66, Kanye_62, FairyPath_66, Harella_65, Gemini_70, Bask21_65, MollyToe_60, NelitzaMV_63, Marshmallow_63, Pat3_63, Buck_66, Glexan_64, Cookies_62, AmericanBeauty_69, ChotaBhai_65, Sassay_60, Flypotenuse_61, Amao_65, Tomaszewski_60, Sotrice96_66, Thimble_66, Balomoji_65, DoctorDiddles_64, JeTaime_65, Argent26_69, ShereKhan_64, StolenFromERC_68, Hoonter_68, Cactus_68, 244_66, GooberAzure_68, Gage_67, Brewer_61, HanKaySha_65, Daikon_67, Kimchi_69, Holt_70, Myrale_65, Stark_66, Willez_60
• Track 38 : OrionPax_64, Command613_67, BaboJay_62, Bogg_65, Pumpkin_68, Goldilocks_68
• Track 39 : Youngblood_68, MPhalcon_66, PhatBacter_69, Livelaughbron_67, Palpatine_67, FireRed_69, TeamEdward_67, YassJohnny_62, Phaux_67, Bench_68, Greep_69, Lilizi_66, Murica_68, Mosby_61, Bruin_62, Nimrod_66, HufflyPuff_68, Petra64142_69, Policronamos_68, MISSy_66, Czyszczon1_66, RiverMonster_65, Becksu_64, Elph10_65, StormChicken_67, Maxxinista_67, Misfit_66, PaddyBaddy_65, Nala_67, Lilac_67, FoghornLeghorn_59, Hopey_65, Terminus_68, BugsBunny_65
• Track 40 : Budgie_71
• Track 41 : Issa7_89, Deschain_91, Musetta_89, DustyDino_94, RunningBrook_92, Shroomer_95, Erenyeager_90, Yuma_89, Necrophoxinus_92, Lyell_90, Casablancas_91
• Track 42 : Fork_86, SteakFry_93, ASegato_88, Welcome_92, HollowPurple_91
• Track 43 : StevieWelch_91
• Track 44 : Cen1621_32
• Track 45 : Taotie_49
• Track 46 : PSonyx_49
• Track 47 : Hirko_75
• Track 48 : Makima_60
• Track 49 : ChamoyPickle_62, ChipsNGuac_61, Neuvillette_60, AnnabelLee_62, CardboardBox_61, Gerri43_60
• Track 50 : TripleC_60
• Track 51 : Roberts_61
• Track 52 : LastNadiia_62
• Track 53 : Agamotto_63
• Track 54 : Ezurina_61
• Track 55 : Studio_62
• Track 56 : TMaxx_63
• Track 57 : Audell_61
• Track 58 : Zooman_297
• Track 59 : Big4_312
• Track 60 : Erasmago_320
• Track 61 : BronnyJames_105, Nibley_100, Ejimix_105, Courthouse_102, Halley_113, Beem_113, MiaZeal_107, Redno2_103, Lucky2013_104, Nekros_110,

JuicyJay_108, Porcelain_105, Squint_105, Ariel_107, Shaboozey_105, KashFlow_104, Superphikiman_104
• Track 62 : Peel_53, Lokum_54, CREW_53, LindNT_52, Jeckyll_53, Bern_54, Prithvi_54, Atiba_54, Veliki_54, Beezoo_55, Durfee_53, Tachez_53, Mynx_54, Twitch_53, Joy99_53, Deby_53, Piatt_53, Pokerus_52, Ramen_54, Jarvi_53, AlishaPH_53, Zavala_55, Inky_53, Lunahalos_53, TreyKay_54, CallaLilly_53, Adephagia_53, Padfoot_53, Llorens_53, Jayhawk_54, Rapunzel97_54, CaseJules_55, Geraldini_56, Boiiii_53, BGlluviae_53, Hyperbowlee_53, ActinUp_53, BEEST_53, Zabiza_48, Padpat_55, Rosmarinus_53, Slimphazie_53, Adonis_53, Spock_53, Anaya_55, Emerson_54, Kheparia_53, BarrelRoll_53, TruffulaTree_53, Capricorn_53, Topper_53, Dalmuri_53, Tiri_54, Asayake_53, JAWS_53, CheetoDust_52, Blizzard_53, Belladonna_53, Homura_53, HedwigODU_53, ShiaSurprise_54, YoureAdopted_52
• Track 63 : Chris_55
• Track 64 : Nibb_55
• Track 65 : MarkPhew_56
• Track 66 : SamuelLPlaqson_54, MacKat_48, Clipper_56, DartGoblin_55, TiniBug_54, DrHayes_54, Bella96_54, Anma_54, Urkel_54
• Track 67 : Yunkel11_55, Guanica15_55
• Track 68 : Ganymede_54, QuincyRose_52
• Track 69 : Murucutumbu_54
• Track 70 : Illumine_56, Dole_56, Devera_58
• Track 71 : LaterM_54, Ageofdapage_55
• Track 72 : Peanam_56, Dartin_56, Shaobing_56, Richo_56, McMater_56, Niklas_56
• Track 73 : Megsy_55
• Track 74 : BaghaKamala_52
• Track 75 : KiSi_57
• Track 76 : Pisa1_53, Pisa4_47, CrimD_53
• Track 77 : Efra2_56
• Track 78 : Apocalypse_56
• Track 79 : TaiwanKao_55
• Track 80 : Oscar_57
• Track 81 : MeaningOfLife_54
• Track 82 : Sulley_53, Angelica_53
• Track 83 : Chavito_57
• Track 84 : LeMond_57, Scarlett_57
• Track 85 : Validus_58
• Track 86 : Curiosium_54
• Track 87 : Stinson_54
• Track 88 : TribleTrouble_52
• Track 89 : Neighly_50, Edugator_47, Larva_49
• Track 90 : Pharb_52
• Track 91 : Heftyboy_48, Waterfoul_49, SoSeph_48
• Track 92 : Agent47_49, ViviJ_48, InvictusManeo_47, DoubleChamp_46, LilDirt_48, BananenDer11_49, Collard_47
• Track 93 : Feyre_49, Thyatira_51
• Track 94 : Omnicron_51
• Track 95 : Miryou_51, OkiRoe_48, Gengar_48, Leston_48
• Track 96 : Guillsminger_49, Paola_48
• Track 97 : AlleyCat_50, Psycho_48, Dadosky_50
• Track 98 : Rando14_50
• Track 99 : Kratio_46
• Track 100 : Bryler_57, Tierra_57, Cain_57, Phrank_57, Ximenita_60

• Track 101 : Ekdilam_53
• Track 102 : Syra333_59
• Track 103 : TClif_56
• Track 104 : Krueger_60, Tigress9_59
• Track 105 : Yuna_59
• Track 106 : Shadow1_59, Sunflower1121_60
• Track 107 : PhelpsODU_55, Unicorn_55
• Track 108 : Lavahound_53, Amgine_54
• Track 109 : Poochiewood_54, Wyatt2_55, Rose5_54, Tyson_54
• Track 110 : Appletree2_54
• Track 111 : Wigglewiggle_57, Zakai_58, SoJulia_59, Gabriela_54, ZhongYanYuan_55, Winky_57, OverPar_58, BigCheese_57, Faith1_57, Vetrix_57, DrSeegs_57, GuuelaD_56, Hafay_58, Crossroads_57, Soap141_57, Hiraya_57, Itos_56, Finemlucis_57, Loadrie_56, MkaliMitinis3_58, Lewan_58, Sarshaun_57, Baoshan_56, Breezona_57, Lynnae_58, DHan_58, BobsGarage_57, Netyap_58, Gardann_58, Wilder_58, Miley16_57, LilDestine_57, Kahlid_57, Nicholasp3_57, ChengKai98_57, Rumpelstiltskin_56
• Track 112 : Rossetti_58
• Track 113 : Claus_57
• Track 114 : Tourach_56
• Track 115 : Bazzle_57, Archie_57
• Track 116 : DanBing_57
• Track 117 : Red305_56, Lumos_57, MsGreen_56, Jobypre_56, Jubie_55, TriFive_57, Clautastrophe_55, Snenia_55
• Track 118 : MiniLon_59, MiniMac_59, Lolly9_55
• Track 119 : BourbonZero_56, KirDoubleO7_54, Ellson_55, LiyuLake_55
• Track 120 : DuncansLeg_56
• Track 121 : Bellis_56, Nicholas_55, Moostard_55, Kingsolomon_55
• Track 122 : Krypton555_57, Finnry_56
• Track 123 : Samty_56
• Track 124 : Whirlwind_56
• Track 125 : Chaser_53, Douge_55, Quby_54, FarmResident_56, ChutneyChips_55
• Track 126 : BrainDrainer_55, Douzhi_55, PYPDinur_53, Sheng711_55
• Track 127 : DyoEdafos_57, Kropertea_54
• Track 128 : Bromden_56
• Track 129 : Bubbykins_102
• Track 130 : Laure_210
• Track 131 : Jace_70

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

The start number called the most often in the published annotations is 65, it was called in 146 of the 414 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 244_66, Agent47_49, AlleyCat_50, Amao_65, AmericanBeauty_69, Argent26_69, Ariel_107, BaboJay_62, Balomoji_65, BananenDer11_49, Bask21_65, Becksu_64, Beem_113, Bellis_56, Bench_68, Bogg_65, BourbonZero_56, Brewer_61, BronnyJames_105, Bruin_62, Bryler_57, Buck_66, Budgie_71, BugsBunny_65, Cactus_68, Cain_57, ChotaBhai_65, Clautastrophe_55, Collard_47,

Command613_67, Cookies_62, Courthouse_102, Czyszczon1_66, Dadosky_50, Daikon_67, DoctorDiddles_64, DoubleChamp_46, DuncansLeg_56, Edugator_47, Ejimix_105, Ellson_55, Elph10_65, FairyPath_66, Feyre_49, Finnry_56, FireRed_69, Flypotenuse_61, FoghornLeghorn_59, Gage_67, Gemini_70, Gengar_48, Glexan_64, GoldenSpark_69, Goldilocks_68, GooberAzure_68, Greep_69, Guillsminger_49, Halley_113, HanKaySha_65, Harella_65, Heftyboy_48, Holt_70, Hoonter_68, Hopey_65, HufflyPuff_68, Icee_66, InvictusManeo_47, JeTaime_65, Jobypre_56, Jubie_55, JuicyJay_108, Kanye_62, KashFlow_104, Kimchi_69, Kingsolomon_55, KirDoubleO7_54, Kratio_46, Krueger_60, Krypton555_57, Larva_49, Leston_48, LilDirt_48, Lilac_67, Lilizi_66, Livelaughbron_67, LiyuLake_55, Lolly9_55, Lucky2013_104, Lumos_57, MISSy_66, MPhalcon_66, Marshmallow_63, Maxxinista_67, MiaZeal_107, MiniLon_59, MiniMac_59, Miryou_51, Misfit_66, MollyToe_60, Moostard_55, Mosby_61, MsGreen_56, Murica_68, Myrale_65, Nala_67, Neighly_50, Nekros_110, NelitzaMV_63, Nergal_50, Nibley_100, Nicholas_55, Nimrod_66, OkiRoe_48, Omnicron_51, OrionPax_64, PaddyBaddy_65, Palpatine_67, Paola_48, Pat3_63, Petra64142_69, PhatBacter_69, Phaux_67, PhelpsODU_55, Phrank_57, Policronamos_68, Porcelain_105, Psycho_48, Pumpkin_68, Quallification_66, Rando14_50, Red305_56, Redno2_103, Rimmer_66, RiverMonster_65, Samty_56, Sassay_60, Shaboozey_105, Shadow1_59, ShereKhan_64, SirDuracell_64, Snenia_55, SoSeph_48, Sotrice96_66, Squint_105, Stark_66, StolenFromERC_68, StormChicken_67, Sunflower1121_60, Superphikiman_104, Syra333_59, TClif_56, TeamEdward_67, Terminus_68, Thimble_66, Thyatira_51, Tierra_57, Tigress9_59, Tomaszewski_60, TriFive_57, Unicorn_55, ViviJ_48, Waterfoul_49, Whirlwind_56, Willez_60, Ximenita_60, YassJohnny_62, Youngblood_68,

Genes that have the "Most Annotated" start but do not call it:
• Nibb_55,

Genes that do not have the "Most Annotated" start:
• ASegato_88, Abscondus_73, Abscondus_9, ActinUp_53, Adephagia_53, Adonis_53, Agamotto_63, Ageofdapage_55, Aleemily_84, AlishaPH_53, Amgine_54, Anaya_55, Angelica_53, Anma_54, AnnabelLee_62, Aphelion_10, Aphelion_73, Apocalypse_56, Appletree2_54, ArV1_084, Archie_57, Asayake_53, Atiba_54, Audell_61, Ayotoya_58, Azira_56, BEEST_53, BGlluviae_53, Bachita_11, Bachita_75, BaghaKamala_52, Baoshan_56, BarrelRoll_53, Bazzle_57, Beezoo_55, Bella96_54, Belladonna_53, Bern_54, BetterKatz_57, Big4_312, BigCheese_57, Blizzard_53, BobsGarage_57, Bock_58, Boiiii_53, BrainDrainer_55, Breezona_57, Bromden_56, Brylie_57, Bubbykins_102, CREW_53, Cafasso_85, CallaLilly_53, Capricorn_53, CardboardBox_61, Casablancas_91, CaseJules_55, Catfish_55, Cen1621_32, ChamoyPickle_62, Chaser_53, Chavito_57, CheetoDust_52, ChengKai98_57, Chipper1996_980, ChipsNGuac_61, Chocolat_97, Chop_58, Chris_55, Chubster_97, ChutneyChips_55, Claus_57, Clipper_56, ClubL_10, Colucci_100, Conboy_95, CrimD_53, Crossroads_57, Cucurbita_75, Cucurbita_9, Culver_9, Curiosium_54, DHan_58, Dalmuri_53, DanBing_57, DartGoblin_55, Dartin_56, Deby_53, DelRio_58, Deschain_91, Devera_58, Dole_56, Douge_55, Douzhi_55, DrHayes_54, DrSeegs_57, DrYang_93, Dublin_43, Durfee_53, DustyDino_94, Dusty_9, DyoEdafos_57, EdgarPoe_96, Efra2_56, Ekdilam_53, Emerson_54, Engineer_10, Engineer_75, Erasmago_320, Erenyeager_90, Exile_27, Ezurina_61, Faith1_57, FarmResident_56, Finemlucis_57, Fork_86, Forthebois_4, Francois_57, Fribs8_56, Gabriela_54, Ganymede_54, Gardann_58, Geeche_72, Geeche_9, Geraldini_56, Gerri43_60, GrandSlam_58, Guanica15_55, GuuelaD_56, Hafay_58, Hamood_58, HedwigODU_53, Hiraya_57, Hirko_75, HollowPurple_91,

Homura_53, HumptyDumpty_97, Hyperbowlee_53, Illumine_56, Inky_53, Issa7_89, Itos_56, JAWS_53, JaNo_96, Jace_70, Jarvi_53, JayCookie_97, Jayhawk_54, Jeckyll_53, Joy99_53, Jumbo_66, KBurrousTX_95, Kabreeze_97, Kahlid_57, Kheparia_53, KiSi_57, Kropertea_54, LastNadiia_62, LaterM_54, Laure_210, Lavahound_53, LeMond_57, Lewan_58, LilDestine_57, LilJank_74, Lilbeanie_82, LindNT_52, Linus_97, Llorens_53, Loadrie_56, Lokum_54, Lozinak_10, Lozinak_74, Lunahalos_53, Lyell_90, Lymara_94, Lynnae_58, MaVan_56, MacKat_48, Makima_60, MalagasyRose_56, MarkPhew_56, MarysWell_43, McMater_56, MeaningOfLife_54, Megsy_55, Miley16_57, Miskis_8, MkaliMitinis3_58, ModicumRichard_85, Mordred_97, Morgana_92, MoyaNatalis_96, Mulch_57, Murucutumbu_54, Musetta_89, Mynx_54, Nadeem_57, NancyRae_56, Necrophoxinus_92, Netyap_58, Neuvillette_60, Neville_70, Nibbles_55, Nicholasp3_57, Niklas_56, Norvs_10, Norvs_74, ObLaDi_85, Oscar_57, OverPar_58, PSonyx_49, PYPDinur_53, Padfoot_53, Padpat_55, Parada_57, Peanam_56, Peel_53, Pharb_52, PhinkBoden_11, PhinkBoden_73, Piatt_53, Pimento_59, Pisa1_53, Pisa4_47, Pokerus_52, Poochiewood_54, PrincessTrina_98, Prithvi_54, Quby_54, QuincyRose_52, Ramen_54, Rapunzel97_54, Richo_56, RickRoss_4, Roberts_61, Rose5_54, RosiePosie_97, Rosmarinus_53, Rossetti_58, Rumpelstiltskin_56, RunningBrook_92, SamuelLPlaqson_54, Sarshaun_57, Scarlett_57, Scavito_98, Shaobing_56, Sheng711_55, ShiaSurprise_54, Shroomer_95, Slimphazie_53, Smoothie_10, Smoothie_75, SoJulia_59, Soap141_57, Soondubu_27, Spock_53, SteakFry_93, StevieWelch_91, Stinson_54, Studio_62, Sulley_53, Survivors_57, SussRoloMann_57, TMaxx_63, Tachez_53, TaiwanKao_55, Taotie_49, Theia_42, ThursdayNight_28, TiniBug_54, Tiri_54, Toniann_10, Toniann_74, Tophat_98, Topper_53, Tourach_56, Trax_72, TreyKay_54, TribleTrouble_52, TripleC_60, TruffulaTree_53, Twitch_53, Tyson_54, Urkel_54, Validus_58, Veliki_54, Vetrix_57, Wallaby_58, Welcome_92, WheatThin_56, WheeHeim_4, Wigglewiggle_57, Wilder_58, WilliamBoone_9, Winky_57, Wolfwood_56, Wyatt2_55, YoureAdopted_52, Yuma_89, Yuna_59, Yunkel11_55, Zabiza_48, Zakai_58, Zareef_57, Zavala_55, ZhongYanYuan_55, Zooman_297,

Summary by start number:

Start 23:
• Found in 8 of 476 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 414
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Roberts_61 (FR),

Start 33:
• Found in 27 of 476 (5.7%) of genes in pham
• Manual Annotations of this start: 10 of 414
• Called 40.7% of time when present
• Phage (with cluster) where this start called: Abscondus_73 (CQ1), Aphelion_73 (CQ1), Bachita_75 (CQ1), Cucurbita_75 (CQ1), Engineer_75 (CQ1), Geeche_72 (CQ1), Lozinak_74 (CQ1), Norvs_74 (CQ1), PhinkBoden_73 (CQ1), Smoothie_75 (CQ1), Toniann_74 (CQ1),

Start 34:
• Found in 4 of 476 (0.8%) of genes in pham
• Manual Annotations of this start: 3 of 414
• Called 75.0% of time when present

• Phage (with cluster) where this start called: Forthebois_4 (BO), RickRoss_4 (BO), WheeHeim_4 (BO),

Start 35:
• Found in 1 of 476 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Audell_61 (FR),

Start 36:
• Found in 1 of 476 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jumbo_66 (DF3),

Start 38:
• Found in 1 of 476 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Makima_60 (FR),

Start 39:
• Found in 13 of 476 (2.7%) of genes in pham
• Manual Annotations of this start: 7 of 414
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Agamotto_63 (FR), AnnabelLee_62 (FR), CardboardBox_61 (FR), ChamoyPickle_62 (FR), ChipsNGuac_61 (FR), Ezurina_61 (FR), Gerri43_60 (FR), LastNadiia_62 (FR), Neuvillette_60 (FR), Studio_62 (FR), TMaxx_63 (FR), TripleC_60 (FR),

Start 46:
• Found in 3 of 476 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Big4_312 (GD2), Erasmago_320 (GD2), Zooman_297 (GD2),

Start 47:
• Found in 21 of 476 (4.4%) of genes in pham
• Manual Annotations of this start: 19 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArV1_084 (AR), Chipper1996_980 (AR), Chocolat_97 (AR), Chubster_97 (AR), Colucci_100 (AR), Conboy_95 (AR), DrYang_93 (AR), EdgarPoe_96 (AR), HumptyDumpty_97 (AR), JaNo_96 (AR), JayCookie_97 (AR), KBurrousTX_95 (AR), Kabreeze_97 (AR), Linus_97 (AR), Lymara_94 (AR), Mordred_97 (AR), MoyaNatalis_96 (AR), PrincessTrina_98 (AR), RosiePosie_97 (AR), Scavito_98 (AR), Tophat_98 (AR),

Start 50:
• Found in 1 of 476 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hirko_75 (FL),

Start 51:
• Found in 1 of 476 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bubbykins_102 (UNK),

Start 52:
• Found in 1 of 476 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chris_55 (K1),

Start 57:
• Found in 8 of 476 (1.7%) of genes in pham
• Manual Annotations of this start: 8 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amgine_54 (K6), Ekdilam_53 (K6), KiSi_57 (K1), Lavahound_53 (K6), LeMond_57 (K1), Nibb_55 (K1), Oscar_57 (K1), Scarlett_57 (K1),

Start 58:
• Found in 5 of 476 (1.1%) of genes in pham
• Manual Annotations of this start: 5 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aleemily_84 (DZ), Cafasso_85 (DZ), ModicumRichard_85 (DZ), Morgana_92 (DZ), ObLaDi_85 (DZ),

Start 59:
• Found in 73 of 476 (15.3%) of genes in pham
• Manual Annotations of this start: 70 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ActinUp_53 (K1), Adephagia_53 (K1), Adonis_53 (K1), AlishaPH_53 (K1), Anaya_55 (K1), Apocalypse_56 (K1), Asayake_53 (K1), Atiba_54 (K1), BEEST_53 (K1), BGlluviae_53 (K1), BaghaKamala_52 (K1), BarrelRoll_53 (K1), Beezoo_55 (K1), Belladonna_53 (K1), Bern_54 (K1), Blizzard_53 (K1), Boiiii_53 (K1), CREW_53 (K1), CallaLilly_53 (K1), Capricorn_53 (K1), CaseJules_55 (K1), CheetoDust_52 (K1), Curiosium_54 (K1), Dalmuri_53 (K1), Deby_53 (K1), Durfee_53 (K1), Efra2_56 (K1), Emerson_54 (K1), Ganymede_54 (K1), Geraldini_56 (K1), Guanica15_55 (K1), HedwigODU_53 (K1), Homura_53 (K1), Hyperbowlee_53 (K1), Inky_53 (K1), JAWS_53 (K1), Jarvi_53 (K1), Jayhawk_54 (K1), Jeckyll_53 (K1), Joy99_53 (K1), Kheparia_53 (K1), LindNT_52 (K1), Llorens_53 (K1), Lokum_54 (K1), Lunahalos_53 (K1), MeaningOfLife_54 (K1), Megsy_55 (K1), Mynx_54 (K1), Padfoot_53 (K1), Padpat_55 (K1), Peel_53 (K1), Piatt_53 (K1), Pokerus_52 (K1), Prithvi_54 (K1), QuincyRose_52 (K1), Ramen_54 (K1), Rapunzel97_54 (K1), Rosmarinus_53 (K1), ShiaSurprise_54 (K1), Slimphazie_53 (K1), Spock_53 (K1), Tachez_53 (K1), TaiwanKao_55 (K1), Tiri_54 (K1), Topper_53 (K1), TreyKay_54 (K1), TruffulaTree_53 (K1), Twitch_53 (K1), Veliki_54 (K1), YoureAdopted_52 (K1), Yunkel11_55 (K1), Zabiza_48 (K1), Zavala_55 (K1),

Start 60:
• Found in 22 of 476 (4.6%) of genes in pham

• Manual Annotations of this start: 19 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ageofdapage_55 (K1), Angelica_53 (K1), Anma_54 (K1), Bella96_54 (K1), Chavito_57 (K1), Clipper_56 (K1), CrimD_53 (K1), DartGoblin_55 (K1), Devera_58 (K1), Dole_56 (K1), DrHayes_54 (K1), Illumine_56 (K1), LaterM_54 (K1), MacKat_48 (K1), Murucutumbu_54 (K1), Pisa1_53 (K1), Pisa4_47 (K1), SamuelLPlaqson_54 (K1), Stinson_54 (K1), Sulley_53 (K1), TiniBug_54 (K1), Urkel_54 (K1),

Start 61:
• Found in 1 of 476 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MalagasyRose_56 (AG),

Start 62:
• Found in 31 of 476 (6.5%) of genes in pham
• Manual Annotations of this start: 26 of 414
• Called 96.8% of time when present
• Phage (with cluster) where this start called: ASegato_88 (ED2), Casablancas_91 (ED2), Catfish_55 (CU5), Cen1621_32 (EH), Dartin_56 (K1), Deschain_91 (ED2), DustyDino_94 (ED2), Erenyeager_90 (ED2), Exile_27 (AZ6), Fork_86 (ED2), HollowPurple_91 (ED2), Issa7_89 (ED2), Laure_210 (UNK), Lyell_90 (ED2), McMater_56 (K1), Musetta_89 (ED2), Necrophoxinus_92 (ED2), Niklas_56 (K1), Peanam_56 (K1), Richo_56 (K1), RunningBrook_92 (ED2), Shaobing_56 (K1), Shroomer_95 (ED2), Soondubu_27 (AZ6), SteakFry_93 (ED2), StevieWelch_91 (ED2), ThursdayNight_28 (AZ), Validus_58 (K1), Welcome_92 (ED2), Yuma_89 (ED2),

Start 63:
• Found in 17 of 476 (3.6%) of genes in pham
• Manual Annotations of this start: 14 of 414
• Called 88.2% of time when present
• Phage (with cluster) where this start called: Abscondus_9 (CQ1), Aphelion_10 (CQ1), Bachita_11 (CQ1), ClubL_10 (CQ1), Cucurbita_9 (CQ1), Culver_9 (CQ1), Dusty_9 (CQ1), Engineer_10 (CQ1), Geeche_9 (CQ1), Lozinak_10 (CQ1), Norvs_10 (CQ1), PhinkBoden_11 (CQ1), Smoothie_10 (CQ1), Toniann_10 (CQ1), WilliamBoone_9 (CQ1),

Start 64:
• Found in 114 of 476 (23.9%) of genes in pham
• Manual Annotations of this start: 20 of 414
• Called 18.4% of time when present
• Phage (with cluster) where this start called: Ayotoya_58 (DI), BetterKatz_57 (DI), Bock_58 (DI), Brylie_57 (DI), Chop_58 (DI), DelRio_58 (DI), Francois_57 (DI), GrandSlam_58 (DI), Hamood_58 (DI), LilJank_74 (DU2), Lilbeanie_82 (DE5), Mulch_57 (DI), Nadeem_57 (DI), NancyRae_56 (DI), Neville_70 (DU2), Parada_57 (DI), Pimento_59 (DI), SussRoloMann_57 (DI), Trax_72 (DU2), WheatThin_56 (DI), Yuna_59 (K6),

Start 65:
• Found in 168 of 476 (35.3%) of genes in pham
• Manual Annotations of this start: 146 of 414

• Called 99.4% of time when present
• Phage (with cluster) where this start called: 244_66 (E), Agent47_49 (K5), AlleyCat_50 (K5), Amao_65 (E), AmericanBeauty_69 (E), Argent26_69 (E), Ariel_107 (J), BaboJay_62 (E), Balomoji_65 (E), BananenDer11_49 (K5), Bask21_65 (E), Becksu_64 (E), Beem_113 (J), Bellis_56 (L3), Bench_68 (E), Bogg_65 (E), BourbonZero_56 (L3), Brewer_61 (E), BronnyJames_105 (J), Bruin_62 (E), Bryler_57 (K6), Buck_66 (E), Budgie_71 (E), BugsBunny_65 (E), Cactus_68 (E), Cain_57 (K6), ChotaBhai_65 (E), Clautastrophe_55 (L3), Collard_47 (K5), Command613_67 (E), Cookies_62 (E), Courthouse_102 (J), Czyszczon1_66 (E), Dadosky_50 (K5), Daikon_67 (E), DoctorDiddles_64 (E), DoubleChamp_46 (K5), DuncansLeg_56 (L3), Edugator_47 (K5), Ejimix_105 (J), Ellson_55 (L3), Elph10_65 (E), FairyPath_66 (E), Feyre_49 (K5), Finnry_56 (L3), FireRed_69 (E), Flypotenuse_61 (E), FoghornLeghorn_59 (E), Gage_67 (E), Gemini_70 (E), Gengar_48 (K5), Glexan_64 (E), GoldenSpark_69 (E), Goldilocks_68 (E), GooberAzure_68 (E), Greep_69 (E), Guillsminger_49 (K5), Halley_113 (J), HanKaySha_65 (E), Harella_65 (E), Heftyboy_48 (K5), Holt_70 (E), Hoonter_68 (E), Hopey_65 (E), HufflyPuff_68 (E), Icee_66 (E), InvictusManeo_47 (K5), JeTaime_65 (E), Jobypre_56 (L3), Jubie_55 (L3), JuicyJay_108 (J), Kanye_62 (E), KashFlow_104 (J), Kimchi_69 (E), Kingsolomon_55 (L3), KirDoubleO7_54 (L3), Kratio_46 (K5), Krueger_60 (K6), Krypton555_57 (L3), Larva_49 (K5), Leston_48 (K5), LilDirt_48 (K5), Lilac_67 (E), Lilizi_66 (E), Livelaughbron_67 (E), LiyuLake_55 (L3), Lolly9_55 (L3), Lucky2013_104 (J), Lumos_57 (L3), MISSy_66 (E), MPhalcon_66 (E), Marshmallow_63 (E), Maxxinista_67 (E), MiaZeal_107 (J), MiniLon_59 (L3), MiniMac_59 (L3), Miryou_51 (K5), Misfit_66 (E), MollyToe_60 (E), Moostard_55 (L3), Mosby_61 (E), MsGreen_56 (L3), Murica_68 (E), Myrale_65 (E), Nala_67 (E), Neighly_50 (K3), Nekros_110 (J), NelitzaMV_63 (E), Nergal_50 (AG), Nibley_100 (J), Nicholas_55 (L3), Nimrod_66 (E), OkiRoe_48 (K5), Omnicron_51 (K5), OrionPax_64 (E), PaddyBaddy_65 (E), Palpatine_67 (E), Paola_48 (K5), Pat3_63 (E), Petra64142_69 (E), PhatBacter_69 (E), Phaux_67 (E), PhelpsODU_55 (K6), Phrank_57 (K6), Policronamos_68 (E), Porcelain_105 (J), Psycho_48 (K5), Pumpkin_68 (E), Quallification_66 (E), Rando14_50 (K5), Red305_56 (L3), Redno2_103 (J), Rimmer_66 (E), RiverMonster_65 (E), Samty_56 (L3), Sassay_60 (E), Shaboozey_105 (J), Shadow1_59 (K6), ShereKhan_64 (E), SirDuracell_64 (E), Snenia_55 (L3), SoSeph_48 (K5), Sotrice96_66 (E), Squint_105 (J), Stark_66 (E), StolenFromERC_68 (E), StormChicken_67 (E), Sunflower1121_60 (K6), Superphikiman_104 (J), Syra333_59 (K6), TClif_56 (K6), TeamEdward_67 (E), Terminus_68 (E), Thimble_66 (E), Thyatira_51 (K5), Tierra_57 (K6), Tigress9_59 (K6), Tomaszewski_60 (E), TriFive_57 (L3), Unicorn_55 (K6), ViviJ_48 (K5), Waterfoul_49 (K5), Whirlwind_56 (L3), Willez_60 (E), Ximenita_60 (K6), YassJohnny_62 (E), Youngblood_68 (E),

Start 67:
• Found in 68 of 476 (14.3%) of genes in pham
• Manual Annotations of this start: 49 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Appletree2_54 (L1), Archie_57 (L2), Azira_56 (CT), Baoshan_56 (L2), Bazzle_57 (L2), BigCheese_57 (L2), BobsGarage_57 (L2), BrainDrainer_55 (L4), Breezona_57 (L2), Bromden_56 (L4), Chaser_53 (L4), ChengKai98_57 (L2), ChutneyChips_55 (L4), Claus_57 (L2), Crossroads_57 (L2), DHan_58 (L2), DanBing_57 (L2), Douge_55 (L4), Douzhi_55 (L4), DrSeegs_57 (L2), DyoEdafos_57 (L4), Faith1_57 (L2), FarmResident_56 (L4), Finemlucis_57 (L2), Fribs8_56 (CT), Gabriela_54 (L2), Gardann_58 (L2), GuuelaD_56 (L2), Hafay_58 (L2), Hiraya_57 (L2), Itos_56 (L2), Jace_70 (singleton),

Kahlid_57 (L2), Kropertea_54 (L4), Lewan_58 (L2), LilDestine_57 (L2), Loadrie_56 (L2), Lynnae_58 (L2), MaVan_56 (CT), Miley16_57 (L2), MkaliMitinis3_58 (L2), Netyap_58 (L2), Nibbles_55 (CT), Nicholasp3_57 (L2), OverPar_58 (L2), PYPDinur_53 (L4), Poochiewood_54 (L1), Quby_54 (L4), Rose5_54 (L1), Rossetti_58 (L2), Rumpelstiltskin_56 (L2), Sarshaun_57 (L2), Sheng711_55 (L4), SoJulia_59 (L2), Soap141_57 (L2), Survivors_57 (CT), Tourach_56 (L2), Tyson_54 (L1), Vetrix_57 (L2), Wallaby_58 (CT), Wigglewiggle_57 (L2), Wilder_58 (L2), Winky_57 (L2), Wolfwood_56 (CT), Wyatt2_55 (L1), Zakai_58 (L2), Zareef_57 (CT), ZhongYanYuan_55 (L2),

Start 68:
• Found in 2 of 476 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 414
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pharb_52 (K3), TribleTrouble_52 (K3),

Start 69:
• Found in 3 of 476 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 414
• Called 33.3% of time when present
• Phage (with cluster) where this start called: MarkPhew_56 (K1),

Start 70:
• Found in 24 of 476 (5.0%) of genes in pham
• Manual Annotations of this start: 4 of 414
• Called 20.8% of time when present
• Phage (with cluster) where this start called: Dublin_43 (A5), MarysWell_43 (A5), PSonyx_49 (EQ), Taotie_49 (EQ), Theia_42 (A5),

Start 90:
• Found in 144 of 476 (30.3%) of genes in pham
• Manual Annotations of this start: 1 of 414
• Called 0.7% of time when present
• Phage (with cluster) where this start called: Miskis_8 (CQ1),

Summary by clusters:

There are 32 clusters represented in this pham: FR, DI, BO, GD2, K3, K1, DZ, K6, K5, FL, CU5, AZ, DF3, A5, DU2, E, EH, AG, J, L4, AR, L2, L3, L1, singleton, UNK, EQ, CQ1, CT, ED2, DE5, AZ6,

Info for manual annotations of cluster A5:
•Start number 70 was manually annotated 3 times for cluster A5.

Info for manual annotations of cluster AG:
•Start number 61 was manually annotated 1 time for cluster AG.
•Start number 65 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AR:
•Start number 47 was manually annotated 19 times for cluster AR.

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

Info for manual annotations of cluster AZ6:
•Start number 62 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BO:
•Start number 34 was manually annotated 3 times for cluster BO.

Info for manual annotations of cluster CQ1:
•Start number 33 was manually annotated 10 times for cluster CQ1.
•Start number 63 was manually annotated 14 times for cluster CQ1.
•Start number 90 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CT:
•Start number 67 was manually annotated 7 times for cluster CT.

Info for manual annotations of cluster CU5:
•Start number 62 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DE5:
•Start number 64 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DF3:
•Start number 36 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DI:
•Start number 64 was manually annotated 15 times for cluster DI.

Info for manual annotations of cluster DU2:
•Start number 64 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster DZ:
•Start number 58 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster E:
•Start number 65 was manually annotated 75 times for cluster E.

Info for manual annotations of cluster ED2:
•Start number 62 was manually annotated 15 times for cluster ED2.

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

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

Info for manual annotations of cluster FL:
•Start number 50 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FR:
•Start number 23 was manually annotated 1 time for cluster FR.
•Start number 35 was manually annotated 1 time for cluster FR.
•Start number 38 was manually annotated 1 time for cluster FR.
•Start number 39 was manually annotated 7 times for cluster FR.

Info for manual annotations of cluster GD2:
•Start number 46 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster J:
•Start number 65 was manually annotated 13 times for cluster J.

Info for manual annotations of cluster K1:
•Start number 52 was manually annotated 1 time for cluster K1.
•Start number 57 was manually annotated 5 times for cluster K1.
•Start number 59 was manually annotated 70 times for cluster K1.
•Start number 60 was manually annotated 19 times for cluster K1.
•Start number 62 was manually annotated 7 times for cluster K1.
•Start number 69 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K3:
•Start number 68 was manually annotated 2 times for cluster K3.

Info for manual annotations of cluster K5:
•Start number 65 was manually annotated 25 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 57 was manually annotated 3 times for cluster K6.
•Start number 64 was manually annotated 1 time for cluster K6.
•Start number 65 was manually annotated 13 times for cluster K6.

Info for manual annotations of cluster L1:
•Start number 67 was manually annotated 4 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 67 was manually annotated 31 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 65 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 67 was manually annotated 6 times for cluster L4.

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

Gene Information:

Gene: 244_66 Start: 43538, Stop: 43870, Start Num: 65
Candidate Starts for 244_66:
(Start: 65 @43538 has 146 MA's), (Start: 90 @43604 has 1 MA's), (95, 43634), (125, 43781), (133, 43835),

Gene: ASegato_88 Start: 51131, Stop: 50784, Start Num: 62
Candidate Starts for ASegato_88:

(Start: 33 @51209 has 10 MA's), (Start: 62 @51131 has 26 MA's), (75, 51095), (80, 51083), (95, 51020), (99, 51005), (101, 50999), (113, 50954), (115, 50948),

Gene: Abscondus_73 Start: 47749, Stop: 48195, Start Num: 33
Candidate Starts for Abscondus_73:
(17, 47629), (Start: 33 @47749 has 10 MA's), (49, 47800), (53, 47809), (71, 47848), (106, 47977), (117, 48043), (118, 48046), (122, 48067), (136, 48163), (139, 48181),

Gene: Abscondus_9 Start: 2199, Stop: 2537, Start Num: 63
Candidate Starts for Abscondus_9:
(Start: 63 @2199 has 14 MA's), (78, 2232), (Start: 90 @2268 has 1 MA's), (131, 2487),

Gene: ActinUp_53 Start: 38771, Stop: 39121, Start Num: 59
Candidate Starts for ActinUp_53:
(Start: 59 @38771 has 70 MA's), (Start: 64 @38777 has 20 MA's), (72, 38801), (83, 38831), (127, 39047),

Gene: Adephagia_53 Start: 38768, Stop: 39118, Start Num: 59
Candidate Starts for Adephagia_53:
(Start: 59 @38768 has 70 MA's), (Start: 64 @38774 has 20 MA's), (72, 38798), (83, 38828), (127, 39044),

Gene: Adonis_53 Start: 39012, Stop: 39362, Start Num: 59
Candidate Starts for Adonis_53:
(Start: 59 @39012 has 70 MA's), (Start: 64 @39018 has 20 MA's), (72, 39042), (83, 39072), (127, 39288),

Gene: Agamotto_63 Start: 39521, Stop: 39132, Start Num: 39
Candidate Starts for Agamotto_63:
(Start: 39 @39521 has 7 MA's), (54, 39482), (75, 39440), (116, 39275), (136, 39146), (137, 39140),

Gene: Agent47_49 Start: 37072, Stop: 37413, Start Num: 65
Candidate Starts for Agent47_49:
(32, 36988), (Start: 65 @37072 has 146 MA's), (77, 37108), (99, 37189), (107, 37216), (111, 37234), (118, 37273), (130, 37357),

Gene: Ageofdapage_55 Start: 39761, Stop: 40111, Start Num: 60
Candidate Starts for Ageofdapage_55:
(Start: 60 @39761 has 19 MA's), (Start: 64 @39767 has 20 MA's), (72, 39791), (127, 40037),

Gene: Aleemily_84 Start: 51825, Stop: 52172, Start Num: 58
Candidate Starts for Aleemily_84:
(Start: 58 @51825 has 5 MA's), (73, 51858), (81, 51879), (Start: 90 @51906 has 1 MA's),

Gene: AlishaPH_53 Start: 39029, Stop: 39379, Start Num: 59
Candidate Starts for AlishaPH_53:
(Start: 59 @39029 has 70 MA's), (Start: 64 @39035 has 20 MA's), (72, 39059), (83, 39089), (127, 39305),

Gene: AlleyCat_50 Start: 37151, Stop: 37489, Start Num: 65
Candidate Starts for AlleyCat_50:
(Start: 65 @37151 has 146 MA's), (83, 37202), (99, 37268), (118, 37352), (124, 37391), (126, 37406),

Gene: Amao_65 Start: 43296, Stop: 43628, Start Num: 65
Candidate Starts for Amao_65:
(Start: 65 @43296 has 146 MA's), (Start: 90 @43362 has 1 MA's), (95, 43392), (125, 43539), (133, 43593),

Gene: AmericanBeauty_69 Start: 44051, Stop: 44383, Start Num: 65
Candidate Starts for AmericanBeauty_69:
(Start: 65 @44051 has 146 MA's), (Start: 90 @44117 has 1 MA's), (95, 44147), (125, 44294), (133, 44348),

Gene: Amgine_54 Start: 40020, Stop: 40364, Start Num: 57
Candidate Starts for Amgine_54:
(Start: 57 @40020 has 8 MA's), (83, 40077), (95, 40128), (124, 40266), (135, 40338),

Gene: Anaya_55 Start: 39287, Stop: 39637, Start Num: 59
Candidate Starts for Anaya_55:
(Start: 59 @39287 has 70 MA's), (Start: 64 @39293 has 20 MA's), (72, 39317), (83, 39347), (127, 39563),

Gene: Angelica_53 Start: 38918, Stop: 39268, Start Num: 60
Candidate Starts for Angelica_53:
(Start: 60 @38918 has 19 MA's), (Start: 64 @38924 has 20 MA's), (72, 38948), (83, 38978), (127, 39194),

Gene: Anma_54 Start: 39665, Stop: 40015, Start Num: 60
Candidate Starts for Anma_54:
(Start: 60 @39665 has 19 MA's), (Start: 64 @39671 has 20 MA's), (72, 39695), (83, 39725), (127, 39941),

Gene: AnnabelLee_62 Start: 35926, Stop: 35531, Start Num: 39
Candidate Starts for AnnabelLee_62:
(Start: 23 @36007 has 1 MA's), (30, 35956), (31, 35950), (Start: 39 @35926 has 7 MA's), (84, 35815), (86, 35812), (93, 35785), (104, 35734),

Gene: Aphelion_73 Start: 48371, Stop: 48817, Start Num: 33
Candidate Starts for Aphelion_73:
(17, 48251), (Start: 33 @48371 has 10 MA's), (49, 48422), (53, 48431), (71, 48470), (106, 48599), (117, 48665), (118, 48668), (122, 48689), (136, 48785), (139, 48803),

Gene: Aphelion_10 Start: 2375, Stop: 2713, Start Num: 63
Candidate Starts for Aphelion_10:
(Start: 63 @2375 has 14 MA's), (Start: 90 @2444 has 1 MA's), (131, 2663),

Gene: Apocalypse_56 Start: 39698, Stop: 40048, Start Num: 59
Candidate Starts for Apocalypse_56:
(Start: 59 @39698 has 70 MA's), (Start: 64 @39704 has 20 MA's), (72, 39728), (83, 39758), (127, 39974),

Gene: Appletree2_54 Start: 40568, Stop: 40909, Start Num: 67
Candidate Starts for Appletree2_54:
(Start: 67 @40568 has 49 MA's), (86, 40613), (99, 40676), (128, 40835), (133, 40865), (136, 40880),

Gene: ArV1_084 Start: 61126, Stop: 61506, Start Num: 47

Candidate Starts for ArV1_084:
(Start: 47 @61126 has 19 MA's), (Start: 70 @61174 has 4 MA's), (71, 61177), (76, 61198), (81, 61210), (82, 61213), (86, 61222), (95, 61267), (99, 61282), (102, 61294), (109, 61318), (111, 61327), (114, 61351),

Gene: Archie_57 Start: 42703, Stop: 43038, Start Num: 67
Candidate Starts for Archie_57:
(Start: 67 @42703 has 49 MA's), (82, 42742), (99, 42811), (121, 42913), (133, 43000), (135, 43012), (136, 43015),

Gene: Argent26_69 Start: 43689, Stop: 44021, Start Num: 65
Candidate Starts for Argent26_69:
(Start: 65 @43689 has 146 MA's), (Start: 90 @43755 has 1 MA's), (95, 43785), (125, 43932), (133, 43986),

Gene: Ariel_107 Start: 59024, Stop: 59359, Start Num: 65
Candidate Starts for Ariel_107:
(Start: 65 @59024 has 146 MA's), (Start: 90 @59093 has 1 MA's), (111, 59186), (133, 59324),

Gene: Asayake_53 Start: 39083, Stop: 39433, Start Num: 59
Candidate Starts for Asayake_53:
(Start: 59 @39083 has 70 MA's), (Start: 64 @39089 has 20 MA's), (72, 39113), (83, 39143), (127, 39359),

Gene: Atiba_54 Start: 38731, Stop: 39081, Start Num: 59
Candidate Starts for Atiba_54:
(Start: 59 @38731 has 70 MA's), (Start: 64 @38737 has 20 MA's), (72, 38761), (83, 38791), (127, 39007),

Gene: Audell_61 Start: 39182, Stop: 38775, Start Num: 35
Candidate Starts for Audell_61:
(Start: 35 @39182 has 1 MA's), (Start: 69 @39107 has 1 MA's), (Start: 70 @39104 has 4 MA's), (80, 39074), (93, 39032), (100, 38996), (137, 38786),

Gene: Ayotoya_58 Start: 39851, Stop: 40183, Start Num: 64
Candidate Starts for Ayotoya_58:
(48, 39815), (Start: 64 @39851 has 20 MA's), (76, 39884), (84, 39905), (95, 39956), (111, 40016),

Gene: Azira_56 Start: 41880, Stop: 42218, Start Num: 67
Candidate Starts for Azira_56:
(10, 41559), (11, 41571), (Start: 67 @41880 has 49 MA's), (76, 41907), (86, 41931), (Start: 90 @41949 has 1 MA's), (116, 42069), (123, 42108), (137, 42201),

Gene: BEEST_53 Start: 39083, Stop: 39433, Start Num: 59
Candidate Starts for BEEST_53:
(Start: 59 @39083 has 70 MA's), (Start: 64 @39089 has 20 MA's), (72, 39113), (83, 39143), (127, 39359),

Gene: BGlluviae_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for BGlluviae_53:
(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: BaboJay_62 Start: 43082, Stop: 43414, Start Num: 65
Candidate Starts for BaboJay_62:
(Start: 65 @43082 has 146 MA's), (Start: 90 @43148 has 1 MA's), (95, 43178), (125, 43325), (133, 43379),

Gene: Bachita_11 Start: 2875, Stop: 3213, Start Num: 63
Candidate Starts for Bachita_11:
(Start: 63 @2875 has 14 MA's), (78, 2908), (Start: 90 @2944 has 1 MA's), (131, 3163),

Gene: Bachita_75 Start: 48796, Stop: 49242, Start Num: 33
Candidate Starts for Bachita_75:
(17, 48676), (Start: 33 @48796 has 10 MA's), (49, 48847), (53, 48856), (71, 48895), (106, 49024), (117, 49090), (118, 49093), (122, 49114), (136, 49210), (139, 49228),

Gene: BaghaKamala_52 Start: 38130, Stop: 38480, Start Num: 59
Candidate Starts for BaghaKamala_52:
(Start: 59 @38130 has 70 MA's), (Start: 64 @38136 has 20 MA's), (72, 38160), (83, 38190), (127, 38406),

Gene: Balomoji_65 Start: 44015, Stop: 44347, Start Num: 65
Candidate Starts for Balomoji_65:
(Start: 65 @44015 has 146 MA's), (Start: 90 @44081 has 1 MA's), (95, 44111), (125, 44258), (133, 44312),

Gene: BananenDer11_49 Start: 37033, Stop: 37374, Start Num: 65
Candidate Starts for BananenDer11_49:
(32, 36949), (Start: 65 @37033 has 146 MA's), (77, 37069), (99, 37150), (107, 37177), (111, 37195), (118, 37234), (130, 37318),

Gene: Baoshan_56 Start: 42377, Stop: 42712, Start Num: 67
Candidate Starts for Baoshan_56:
(Start: 67 @42377 has 49 MA's), (74, 42401), (82, 42416), (99, 42485), (116, 42560), (121, 42587), (133, 42674), (135, 42686), (136, 42689),

Gene: BarrelRoll_53 Start: 38754, Stop: 39104, Start Num: 59
Candidate Starts for BarrelRoll_53:
(Start: 59 @38754 has 70 MA's), (Start: 64 @38760 has 20 MA's), (72, 38784), (83, 38814), (127, 39030),

Gene: Bask21_65 Start: 42856, Stop: 43188, Start Num: 65
Candidate Starts for Bask21_65:
(Start: 65 @42856 has 146 MA's), (Start: 90 @42922 has 1 MA's), (95, 42952), (125, 43099), (133, 43153),

Gene: Bazzle_57 Start: 42773, Stop: 43108, Start Num: 67
Candidate Starts for Bazzle_57:
(Start: 67 @42773 has 49 MA's), (82, 42812), (99, 42881), (121, 42983), (133, 43070), (135, 43082), (136, 43085),

Gene: Becksu_64 Start: 44084, Stop: 44416, Start Num: 65
Candidate Starts for Becksu_64:
(14, 43814), (16, 43832), (24, 43940), (Start: 65 @44084 has 146 MA's), (Start: 90 @44150 has 1 MA's), (95, 44180), (125, 44327), (133, 44381),

Gene: Beem_113 Start: 64609, Stop: 64944, Start Num: 65
Candidate Starts for Beem_113:
(Start: 65 @64609 has 146 MA's), (Start: 90 @64678 has 1 MA's), (111, 64771), (133, 64909),

Gene: Beezoo_55 Start: 39729, Stop: 40079, Start Num: 59
Candidate Starts for Beezoo_55:
(Start: 59 @39729 has 70 MA's), (Start: 64 @39735 has 20 MA's), (72, 39759), (83, 39789), (127, 40005),

Gene: Bella96_54 Start: 39510, Stop: 39860, Start Num: 60
Candidate Starts for Bella96_54:
(Start: 60 @39510 has 19 MA's), (Start: 64 @39516 has 20 MA's), (72, 39540), (83, 39570), (127, 39786),

Gene: Belladonna_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for Belladonna_53:
(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: Bellis_56 Start: 42642, Stop: 42983, Start Num: 65
Candidate Starts for Bellis_56:
(Start: 65 @42642 has 146 MA's), (116, 42828), (133, 42942),

Gene: Bench_68 Start: 43519, Stop: 43851, Start Num: 65
Candidate Starts for Bench_68:
(14, 43249), (16, 43267), (24, 43375), (Start: 65 @43519 has 146 MA's), (Start: 90 @43585 has 1 MA's), (95, 43615), (125, 43762), (133, 43816),

Gene: Bern_54 Start: 37720, Stop: 38070, Start Num: 59
Candidate Starts for Bern_54:
(Start: 59 @37720 has 70 MA's), (Start: 64 @37726 has 20 MA's), (72, 37750), (83, 37780), (127, 37996),

Gene: BetterKatz_57 Start: 39050, Stop: 39382, Start Num: 64
Candidate Starts for BetterKatz_57:
(40, 38987), (48, 39014), (Start: 64 @39050 has 20 MA's), (76, 39083), (84, 39104), (95, 39155), (111, 39215),

Gene: Big4_312 Start: 167840, Stop: 168223, Start Num: 46
Candidate Starts for Big4_312:
(Start: 46 @167840 has 2 MA's), (105, 168002), (111, 168026), (116, 168056),

Gene: BigCheese_57 Start: 42443, Stop: 42778, Start Num: 67
Candidate Starts for BigCheese_57:
(Start: 67 @42443 has 49 MA's), (74, 42467), (82, 42482), (99, 42551), (116, 42626), (121, 42653), (133, 42740), (135, 42752), (136, 42755),

Gene: Blizzard_53 Start: 39083, Stop: 39433, Start Num: 59
Candidate Starts for Blizzard_53:
(Start: 59 @39083 has 70 MA's), (Start: 64 @39089 has 20 MA's), (72, 39113), (83, 39143), (127, 39359),

Gene: BobsGarage_57 Start: 42443, Stop: 42778, Start Num: 67
Candidate Starts for BobsGarage_57:
(Start: 67 @42443 has 49 MA's), (74, 42467), (82, 42482), (99, 42551), (116, 42626), (121, 42653), (133, 42740), (135, 42752), (136, 42755),

Gene: Bock_58 Start: 39083, Stop: 39415, Start Num: 64
Candidate Starts for Bock_58:
(48, 39047), (Start: 64 @39083 has 20 MA's), (76, 39116), (84, 39137), (95, 39188), (111, 39248),

Gene: Bogg_65 Start: 42834, Stop: 43166, Start Num: 65
Candidate Starts for Bogg_65:
(Start: 65 @42834 has 146 MA's), (Start: 90 @42900 has 1 MA's), (95, 42930), (125, 43077), (133, 43131),

Gene: Boiiii_53 Start: 39085, Stop: 39435, Start Num: 59
Candidate Starts for Boiiii_53:
(Start: 59 @39085 has 70 MA's), (Start: 64 @39091 has 20 MA's), (72, 39115), (83, 39145), (127, 39361),

Gene: BourbonZero_56 Start: 42690, Stop: 43031, Start Num: 65
Candidate Starts for BourbonZero_56:
(Start: 65 @42690 has 146 MA's), (116, 42876), (133, 42990), (135, 43002),

Gene: BrainDrainer_55 Start: 41309, Stop: 41656, Start Num: 67
Candidate Starts for BrainDrainer_55:
(Start: 67 @41309 has 49 MA's), (85, 41354), (111, 41474), (128, 41585), (133, 41615), (136, 41630),

Gene: Breezona_57 Start: 42443, Stop: 42778, Start Num: 67
Candidate Starts for Breezona_57:
(Start: 67 @42443 has 49 MA's), (74, 42467), (82, 42482), (99, 42551), (116, 42626), (121, 42653), (133, 42740), (135, 42752), (136, 42755),

Gene: Brewer_61 Start: 42351, Stop: 42683, Start Num: 65
Candidate Starts for Brewer_61:
(Start: 65 @42351 has 146 MA's), (Start: 90 @42417 has 1 MA's), (95, 42447), (125, 42594), (133, 42648),

Gene: Bromden_56 Start: 41981, Stop: 42316, Start Num: 67
Candidate Starts for Bromden_56:
(Start: 67 @41981 has 49 MA's), (72, 41999), (85, 42026), (99, 42089), (128, 42245), (133, 42275), (136, 42290),

Gene: BronnyJames_105 Start: 59510, Stop: 59845, Start Num: 65
Candidate Starts for BronnyJames_105:
(Start: 65 @59510 has 146 MA's), (Start: 90 @59579 has 1 MA's), (111, 59672), (133, 59810),

Gene: Bruin_62 Start: 42428, Stop: 42760, Start Num: 65
Candidate Starts for Bruin_62:
(14, 42158), (16, 42176), (24, 42284), (Start: 65 @42428 has 146 MA's), (Start: 90 @42494 has 1 MA's), (95, 42524), (125, 42671), (133, 42725),

Gene: Bryler_57 Start: 38538, Stop: 38885, Start Num: 65
Candidate Starts for Bryler_57:

(Start: 65 @38538 has 146 MA's), (86, 38595), (135, 38856), (137, 38865),

Gene: Brylie_57 Start: 38831, Stop: 39163, Start Num: 64
Candidate Starts for Brylie_57:
(40, 38768), (48, 38795), (Start: 64 @38831 has 20 MA's), (76, 38864), (84, 38885), (95, 38936), (111, 38996),

Gene: Bubbykins_102 Start: 61342, Stop: 61716, Start Num: 51
Candidate Starts for Bubbykins_102:
(Start: 51 @61342 has 1 MA's), (76, 61402), (82, 61417), (99, 61486), (113, 61558), (116, 61567), (119, 61582), (127, 61645), (131, 61672), (137, 61702),

Gene: Buck_66 Start: 44136, Stop: 44468, Start Num: 65
Candidate Starts for Buck_66:
(Start: 65 @44136 has 146 MA's), (Start: 90 @44202 has 1 MA's), (95, 44232), (125, 44379), (133, 44433),

Gene: Budgie_71 Start: 44067, Stop: 44399, Start Num: 65
Candidate Starts for Budgie_71:
(15, 43809), (26, 43941), (Start: 65 @44067 has 146 MA's), (Start: 90 @44133 has 1 MA's), (95, 44163), (133, 44364),

Gene: BugsBunny_65 Start: 43966, Stop: 44298, Start Num: 65
Candidate Starts for BugsBunny_65:
(14, 43696), (16, 43714), (24, 43822), (Start: 65 @43966 has 146 MA's), (Start: 90 @44032 has 1 MA's), (95, 44062), (125, 44209), (133, 44263),

Gene: CREW_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for CREW_53:
(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: Cactus_68 Start: 42909, Stop: 43241, Start Num: 65
Candidate Starts for Cactus_68:
(Start: 65 @42909 has 146 MA's), (Start: 90 @42975 has 1 MA's), (95, 43005), (125, 43152), (133, 43206),

Gene: Cafasso_85 Start: 51977, Stop: 52324, Start Num: 58
Candidate Starts for Cafasso_85:
(Start: 58 @51977 has 5 MA's), (73, 52010), (81, 52031), (Start: 90 @52058 has 1 MA's),

Gene: Cain_57 Start: 38526, Stop: 38873, Start Num: 65
Candidate Starts for Cain_57:
(Start: 65 @38526 has 146 MA's), (86, 38583), (135, 38844), (137, 38853),

Gene: CallaLilly_53 Start: 38809, Stop: 39159, Start Num: 59
Candidate Starts for CallaLilly_53:
(Start: 59 @38809 has 70 MA's), (Start: 64 @38815 has 20 MA's), (72, 38839), (83, 38869), (127, 39085),

Gene: Capricorn_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for Capricorn_53:

(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: CardboardBox_61 Start: 35929, Stop: 35534, Start Num: 39
Candidate Starts for CardboardBox_61:
(Start: 23 @36010 has 1 MA's), (30, 35959), (31, 35953), (Start: 39 @35929 has 7 MA's), (84, 35818), (86, 35815), (93, 35788), (104, 35737),

Gene: Casablancas_91 Start: 51047, Stop: 50700, Start Num: 62
Candidate Starts for Casablancas_91:
(Start: 33 @51125 has 10 MA's), (Start: 62 @51047 has 26 MA's), (75, 51011), (80, 50999), (95, 50936), (99, 50921), (101, 50915), (123, 50819),

Gene: CaseJules_55 Start: 39083, Stop: 39433, Start Num: 59
Candidate Starts for CaseJules_55:
(Start: 59 @39083 has 70 MA's), (Start: 64 @39089 has 20 MA's), (72, 39113), (83, 39143), (127, 39359),

Gene: Catfish_55 Start: 38322, Stop: 38657, Start Num: 62
Candidate Starts for Catfish_55:
(Start: 62 @38322 has 26 MA's), (Start: 90 @38400 has 1 MA's), (95, 38430), (101, 38451), (112, 38484), (113, 38499), (133, 38619), (135, 38631),

Gene: Cen1621_32 Start: 22941, Stop: 23279, Start Num: 62
Candidate Starts for Cen1621_32:
(1, 22122), (5, 22497), (28, 22845), (Start: 62 @22941 has 26 MA's), (77, 22980), (95, 23043), (104, 23067), (138, 23268),

Gene: ChamoyPickle_62 Start: 36469, Stop: 36074, Start Num: 39
Candidate Starts for ChamoyPickle_62:
(Start: 23 @36550 has 1 MA's), (30, 36499), (31, 36493), (Start: 39 @36469 has 7 MA's), (84, 36358), (86, 36355), (93, 36328), (104, 36277),

Gene: Chaser_53 Start: 41066, Stop: 41413, Start Num: 67
Candidate Starts for Chaser_53:
(Start: 67 @41066 has 49 MA's), (85, 41111), (128, 41342), (133, 41372), (136, 41387),

Gene: Chavito_57 Start: 40188, Stop: 40529, Start Num: 60
Candidate Starts for Chavito_57:
(Start: 60 @40188 has 19 MA's), (81, 40233), (83, 40239), (95, 40290), (99, 40305), (124, 40431), (135, 40503),

Gene: CheetoDust_52 Start: 38174, Stop: 38524, Start Num: 59
Candidate Starts for CheetoDust_52:
(Start: 59 @38174 has 70 MA's), (Start: 64 @38180 has 20 MA's), (72, 38204), (83, 38234), (127, 38450),

Gene: ChengKai98_57 Start: 42478, Stop: 42813, Start Num: 67
Candidate Starts for ChengKai98_57:
(Start: 67 @42478 has 49 MA's), (74, 42502), (82, 42517), (99, 42586), (116, 42661), (121, 42688), (133, 42775), (135, 42787), (136, 42790),

Gene: Chipper1996_980 Start: 62828, Stop: 63211, Start Num: 47

Candidate Starts for Chipper1996_980:
(Start: 47 @62828 has 19 MA's), (49, 62834), (Start: 70 @62879 has 4 MA's), (76, 62903), (82, 62918), (86, 62927), (95, 62972), (99, 62987), (102, 62999), (109, 63023), (111, 63032), (113, 63053), (120, 63086), (129, 63149),

Gene: ChipsNGuac_61 Start: 35929, Stop: 35534, Start Num: 39
Candidate Starts for ChipsNGuac_61:
(Start: 23 @36010 has 1 MA's), (30, 35959), (31, 35953), (Start: 39 @35929 has 7 MA's), (84, 35818), (86, 35815), (93, 35788), (104, 35737),

Gene: Chocolat_97 Start: 62535, Stop: 62918, Start Num: 47
Candidate Starts for Chocolat_97:
(Start: 47 @62535 has 19 MA's), (49, 62541), (Start: 70 @62586 has 4 MA's), (76, 62610), (82, 62625), (86, 62634), (95, 62679), (99, 62694), (102, 62706), (109, 62730), (111, 62739), (113, 62760), (120, 62793), (129, 62856),

Gene: Chop_58 Start: 39602, Stop: 39934, Start Num: 64
Candidate Starts for Chop_58:
(48, 39566), (Start: 64 @39602 has 20 MA's), (76, 39635), (84, 39656), (95, 39707), (111, 39767),

Gene: ChotaBhai_65 Start: 43227, Stop: 43559, Start Num: 65
Candidate Starts for ChotaBhai_65:
(Start: 65 @43227 has 146 MA's), (Start: 90 @43293 has 1 MA's), (95, 43323), (125, 43470), (133, 43524),

Gene: Chris_55 Start: 39389, Stop: 39751, Start Num: 52
Candidate Starts for Chris_55:
(Start: 52 @39389 has 1 MA's), (Start: 69 @39419 has 1 MA's), (89, 39482), (135, 39725),

Gene: Chubster_97 Start: 62775, Stop: 63158, Start Num: 47
Candidate Starts for Chubster_97:
(Start: 47 @62775 has 19 MA's), (49, 62781), (Start: 70 @62826 has 4 MA's), (76, 62850), (82, 62865), (86, 62874), (95, 62919), (99, 62934), (102, 62946), (109, 62970), (111, 62979), (113, 63000), (120, 63033), (129, 63096),

Gene: ChutneyChips_55 Start: 41342, Stop: 41689, Start Num: 67
Candidate Starts for ChutneyChips_55:
(Start: 67 @41342 has 49 MA's), (85, 41387), (128, 41618), (133, 41648), (136, 41663),

Gene: Claus_57 Start: 42524, Stop: 42859, Start Num: 67
Candidate Starts for Claus_57:
(Start: 67 @42524 has 49 MA's), (74, 42548), (82, 42563), (99, 42632), (116, 42707), (121, 42734), (133, 42821), (136, 42836),

Gene: Clautastrophe_55 Start: 42639, Stop: 42980, Start Num: 65
Candidate Starts for Clautastrophe_55:
(Start: 65 @42639 has 146 MA's), (82, 42681), (116, 42825), (133, 42939),

Gene: Clipper_56 Start: 39350, Stop: 39700, Start Num: 60
Candidate Starts for Clipper_56:
(Start: 60 @39350 has 19 MA's), (Start: 64 @39356 has 20 MA's), (72, 39380), (83, 39410), (127, 39626),

Gene: ClubL_10 Start: 2375, Stop: 2713, Start Num: 63
Candidate Starts for ClubL_10:
(Start: 63 @2375 has 14 MA's), (78, 2408), (Start: 90 @2444 has 1 MA's), (131, 2663),

Gene: Collard_47 Start: 37033, Stop: 37374, Start Num: 65
Candidate Starts for Collard_47:
(32, 36949), (Start: 65 @37033 has 146 MA's), (77, 37069), (99, 37150), (107, 37177), (111, 37195), (118, 37234), (130, 37318),

Gene: Colucci_100 Start: 63169, Stop: 63552, Start Num: 47
Candidate Starts for Colucci_100:
(Start: 47 @63169 has 19 MA's), (49, 63175), (Start: 70 @63220 has 4 MA's), (72, 63232), (76, 63244), (79, 63250), (80, 63253), (95, 63313), (99, 63328), (102, 63340), (111, 63373), (113, 63394),

Gene: Command613_67 Start: 43948, Stop: 44280, Start Num: 65
Candidate Starts for Command613_67:
(Start: 65 @43948 has 146 MA's), (Start: 90 @44014 has 1 MA's), (95, 44044), (125, 44191), (133, 44245),

Gene: Conboy_95 Start: 62284, Stop: 62667, Start Num: 47
Candidate Starts for Conboy_95:
(Start: 47 @62284 has 19 MA's), (49, 62290), (Start: 70 @62335 has 4 MA's), (76, 62359), (82, 62374), (86, 62383), (95, 62428), (99, 62443), (102, 62455), (109, 62479), (111, 62488), (113, 62509), (120, 62542), (129, 62605),

Gene: Cookies_62 Start: 43078, Stop: 43410, Start Num: 65
Candidate Starts for Cookies_62:
(Start: 65 @43078 has 146 MA's), (Start: 90 @43144 has 1 MA's), (95, 43174), (125, 43321), (133, 43375),

Gene: Courthouse_102 Start: 58624, Stop: 58959, Start Num: 65
Candidate Starts for Courthouse_102:
(Start: 65 @58624 has 146 MA's), (Start: 90 @58693 has 1 MA's), (111, 58786), (133, 58924),

Gene: CrimD_53 Start: 39006, Stop: 39356, Start Num: 60
Candidate Starts for CrimD_53:
(Start: 60 @39006 has 19 MA's), (Start: 64 @39012 has 20 MA's), (72, 39036), (83, 39066), (127, 39282),

Gene: Crossroads_57 Start: 42521, Stop: 42856, Start Num: 67
Candidate Starts for Crossroads_57:
(Start: 67 @42521 has 49 MA's), (74, 42545), (82, 42560), (99, 42629), (116, 42704), (121, 42731), (133, 42818), (135, 42830), (136, 42833),

Gene: Cucurbita_75 Start: 49303, Stop: 49749, Start Num: 33
Candidate Starts for Cucurbita_75:
(17, 49183), (Start: 33 @49303 has 10 MA's), (49, 49354), (53, 49363), (71, 49402), (106, 49531), (117, 49597), (118, 49600), (122, 49621), (136, 49717), (139, 49735),

Gene: Cucurbita_9 Start: 2375, Stop: 2713, Start Num: 63
Candidate Starts for Cucurbita_9:
(Start: 63 @2375 has 14 MA's), (Start: 90 @2444 has 1 MA's), (131, 2663),

Gene: Culver_9 Start: 2199, Stop: 2537, Start Num: 63
Candidate Starts for Culver_9:
(Start: 63 @2199 has 14 MA's), (78, 2232), (Start: 90 @2268 has 1 MA's), (131, 2487),

Gene: Curiosium_54 Start: 37470, Stop: 37817, Start Num: 59
Candidate Starts for Curiosium_54:
(Start: 59 @37470 has 70 MA's), (Start: 64 @37476 has 20 MA's), (72, 37500), (74, 37506), (118, 37680), (127, 37746), (136, 37797),

Gene: Czyszczon1_66 Start: 43418, Stop: 43750, Start Num: 65
Candidate Starts for Czyszczon1_66:
(14, 43148), (16, 43166), (24, 43274), (Start: 65 @43418 has 146 MA's), (Start: 90 @43484 has 1 MA's), (95, 43514), (125, 43661), (133, 43715),

Gene: DHan_58 Start: 42424, Stop: 42759, Start Num: 67
Candidate Starts for DHan_58:
(Start: 67 @42424 has 49 MA's), (74, 42448), (82, 42463), (99, 42532), (116, 42607), (121, 42634), (133, 42721), (135, 42733), (136, 42736),

Gene: Dadosky_50 Start: 37153, Stop: 37491, Start Num: 65
Candidate Starts for Dadosky_50:
(Start: 65 @37153 has 146 MA's), (83, 37204), (99, 37270), (118, 37354), (124, 37393), (126, 37408),

Gene: Daikon_67 Start: 44036, Stop: 44368, Start Num: 65
Candidate Starts for Daikon_67:
(Start: 65 @44036 has 146 MA's), (Start: 90 @44102 has 1 MA's), (95, 44132), (125, 44279), (133, 44333),

Gene: Dalmuri_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for Dalmuri_53:
(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: DanBing_57 Start: 42375, Stop: 42710, Start Num: 67
Candidate Starts for DanBing_57:
(Start: 67 @42375 has 49 MA's), (74, 42399), (99, 42483), (116, 42558), (121, 42585), (133, 42672), (135, 42684), (136, 42687),

Gene: DartGoblin_55 Start: 39482, Stop: 39832, Start Num: 60
Candidate Starts for DartGoblin_55:
(Start: 60 @39482 has 19 MA's), (Start: 64 @39488 has 20 MA's), (72, 39512), (83, 39542), (127, 39758),

Gene: Dartin_56 Start: 39469, Stop: 39807, Start Num: 62
Candidate Starts for Dartin_56:
(Start: 62 @39469 has 26 MA's), (81, 39511), (83, 39517), (99, 39583), (135, 39781),

Gene: Deby_53 Start: 38945, Stop: 39295, Start Num: 59
Candidate Starts for Deby_53:
(Start: 59 @38945 has 70 MA's), (Start: 64 @38951 has 20 MA's), (72, 38975), (83, 39005), (127, 39221),

Gene: DelRio_58 Start: 40013, Stop: 40345, Start Num: 64

Candidate Starts for DelRio_58:
(48, 39977), (Start: 64 @40013 has 20 MA's), (76, 40046), (84, 40067), (95, 40118), (111, 40178),

Gene: Deschain_91 Start: 51711, Stop: 51364, Start Num: 62
Candidate Starts for Deschain_91:
(Start: 33 @51789 has 10 MA's), (Start: 62 @51711 has 26 MA's), (75, 51675), (80, 51663), (95, 51600), (99, 51585), (101, 51579), (123, 51483),

Gene: Devera_58 Start: 39525, Stop: 39875, Start Num: 60
Candidate Starts for Devera_58:
(Start: 60 @39525 has 19 MA's), (Start: 64 @39531 has 20 MA's), (72, 39555), (83, 39585), (127, 39801),

Gene: DoctorDiddles_64 Start: 43268, Stop: 43600, Start Num: 65
Candidate Starts for DoctorDiddles_64:
(Start: 65 @43268 has 146 MA's), (Start: 90 @43334 has 1 MA's), (95, 43364), (125, 43511), (133, 43565),

Gene: Dole_56 Start: 39528, Stop: 39878, Start Num: 60
Candidate Starts for Dole_56:
(Start: 60 @39528 has 19 MA's), (Start: 64 @39534 has 20 MA's), (72, 39558), (83, 39588), (127, 39804),

Gene: DoubleChamp_46 Start: 37033, Stop: 37374, Start Num: 65
Candidate Starts for DoubleChamp_46:
(32, 36949), (Start: 65 @37033 has 146 MA's), (77, 37069), (99, 37150), (107, 37177), (111, 37195), (118, 37234), (130, 37318),

Gene: Douge_55 Start: 41060, Stop: 41407, Start Num: 67
Candidate Starts for Douge_55:
(Start: 67 @41060 has 49 MA's), (85, 41105), (128, 41336), (133, 41366), (136, 41381),

Gene: Douzhi_55 Start: 41137, Stop: 41484, Start Num: 67
Candidate Starts for Douzhi_55:
(Start: 67 @41137 has 49 MA's), (85, 41182), (111, 41302), (128, 41413), (133, 41443), (136, 41458),

Gene: DrHayes_54 Start: 39665, Stop: 40015, Start Num: 60
Candidate Starts for DrHayes_54:
(Start: 60 @39665 has 19 MA's), (Start: 64 @39671 has 20 MA's), (72, 39695), (83, 39725), (127, 39941),

Gene: DrSeegs_57 Start: 42443, Stop: 42778, Start Num: 67
Candidate Starts for DrSeegs_57:
(Start: 67 @42443 has 49 MA's), (74, 42467), (82, 42482), (99, 42551), (116, 42626), (121, 42653), (133, 42740), (135, 42752), (136, 42755),

Gene: DrYang_93 Start: 62321, Stop: 62704, Start Num: 47
Candidate Starts for DrYang_93:
(21, 62204), (Start: 47 @62321 has 19 MA's), (49, 62327), (75, 62393), (76, 62396), (95, 62465), (99, 62480), (102, 62492), (108, 62510), (114, 62549), (120, 62579), (129, 62642), (130, 62654), (136, 62684), (137, 62690),

Gene: Dublin_43 Start: 34571, Stop: 34242, Start Num: 70

Candidate Starts for Dublin_43:
(Start: 70 @34571 has 4 MA's), (Start: 90 @34505 has 1 MA's), (102, 34451), (110, 34424), (113, 34400), (115, 34394), (137, 34259),

Gene: DuncansLeg_56 Start: 42678, Stop: 43019, Start Num: 65
Candidate Starts for DuncansLeg_56:
(25, 42540), (Start: 65 @42678 has 146 MA's), (82, 42720), (116, 42864), (133, 42978), (135, 42990),

Gene: Durfee_53 Start: 39083, Stop: 39433, Start Num: 59
Candidate Starts for Durfee_53:
(Start: 59 @39083 has 70 MA's), (Start: 64 @39089 has 20 MA's), (72, 39113), (83, 39143), (127, 39359),

Gene: Dusty_9 Start: 2199, Stop: 2537, Start Num: 63
Candidate Starts for Dusty_9:
(Start: 63 @2199 has 14 MA's), (78, 2232), (Start: 90 @2268 has 1 MA's), (131, 2487),

Gene: DustyDino_94 Start: 52270, Stop: 51923, Start Num: 62
Candidate Starts for DustyDino_94:
(Start: 33 @52348 has 10 MA's), (Start: 62 @52270 has 26 MA's), (75, 52234), (80, 52222), (95, 52159), (99, 52144), (101, 52138), (123, 52042),

Gene: DyoEdafos_57 Start: 41342, Stop: 41689, Start Num: 67
Candidate Starts for DyoEdafos_57:
(Start: 67 @41342 has 49 MA's), (85, 41387), (102, 41462), (128, 41618), (133, 41648), (136, 41663),

Gene: EdgarPoe_96 Start: 62692, Stop: 63075, Start Num: 47
Candidate Starts for EdgarPoe_96:
(Start: 47 @62692 has 19 MA's), (49, 62698), (Start: 70 @62743 has 4 MA's), (76, 62767), (82, 62782), (86, 62791), (95, 62836), (99, 62851), (102, 62863), (109, 62887), (111, 62896), (113, 62917), (120, 62950), (129, 63013),

Gene: Edugator_47 Start: 38574, Stop: 38912, Start Num: 65
Candidate Starts for Edugator_47:
(Start: 65 @38574 has 146 MA's), (80, 38616), (83, 38625), (99, 38691), (118, 38775), (124, 38814), (126, 38829),

Gene: Efra2_56 Start: 38613, Stop: 38960, Start Num: 59
Candidate Starts for Efra2_56:
(Start: 59 @38613 has 70 MA's), (Start: 64 @38619 has 20 MA's), (72, 38643), (123, 38853), (127, 38889),

Gene: Ejimix_105 Start: 64303, Stop: 64638, Start Num: 65
Candidate Starts for Ejimix_105:
(Start: 65 @64303 has 146 MA's), (Start: 90 @64372 has 1 MA's), (111, 64465), (133, 64603),

Gene: Ekdilam_53 Start: 39489, Stop: 39833, Start Num: 57
Candidate Starts for Ekdilam_53:
(Start: 57 @39489 has 8 MA's), (83, 39546), (95, 39597), (124, 39735),

Gene: Ellson_55 Start: 42703, Stop: 43044, Start Num: 65
Candidate Starts for Ellson_55:
(Start: 65 @42703 has 146 MA's), (116, 42889), (133, 43003), (135, 43015),

Gene: Elph10_65 Start: 42916, Stop: 43248, Start Num: 65
Candidate Starts for Elph10_65:
(14, 42646), (16, 42664), (24, 42772), (Start: 65 @42916 has 146 MA's), (Start: 90 @42982 has 1 MA's), (95, 43012), (125, 43159), (133, 43213),

Gene: Emerson_54 Start: 38765, Stop: 39115, Start Num: 59
Candidate Starts for Emerson_54:
(Start: 59 @38765 has 70 MA's), (Start: 64 @38771 has 20 MA's), (72, 38795), (83, 38825), (127, 39041),

Gene: Engineer_10 Start: 2375, Stop: 2713, Start Num: 63
Candidate Starts for Engineer_10:
(Start: 63 @2375 has 14 MA's), (Start: 90 @2444 has 1 MA's), (131, 2663),

Gene: Engineer_75 Start: 48769, Stop: 49215, Start Num: 33
Candidate Starts for Engineer_75:
(17, 48649), (Start: 33 @48769 has 10 MA's), (49, 48820), (53, 48829), (71, 48868), (106, 48997), (117, 49063), (118, 49066), (122, 49087), (136, 49183), (139, 49201),

Gene: Erasmago_320 Start: 168140, Stop: 168529, Start Num: 46
Candidate Starts for Erasmago_320:
(44, 168134), (Start: 46 @168140 has 2 MA's), (95, 168284), (116, 168359), (138, 168503),

Gene: Erenyeager_90 Start: 51059, Stop: 50712, Start Num: 62
Candidate Starts for Erenyeager_90:
(Start: 33 @51137 has 10 MA's), (Start: 62 @51059 has 26 MA's), (75, 51023), (80, 51011), (95, 50948), (99, 50933), (101, 50927), (123, 50831),

Gene: Exile_27 Start: 24622, Stop: 24957, Start Num: 62
Candidate Starts for Exile_27:
(18, 24448), (Start: 62 @24622 has 26 MA's), (133, 24916),

Gene: Ezurina_61 Start: 36981, Stop: 36586, Start Num: 39
Candidate Starts for Ezurina_61:
(Start: 23 @37062 has 1 MA's), (30, 37011), (31, 37005), (Start: 39 @36981 has 7 MA's), (87, 36864), (93, 36840), (104, 36789),

Gene: FairyPath_66 Start: 44027, Stop: 44359, Start Num: 65
Candidate Starts for FairyPath_66:
(Start: 65 @44027 has 146 MA's), (Start: 90 @44093 has 1 MA's), (95, 44123), (125, 44270), (133, 44324),

Gene: Faith1_57 Start: 42443, Stop: 42778, Start Num: 67
Candidate Starts for Faith1_57:
(Start: 67 @42443 has 49 MA's), (74, 42467), (82, 42482), (99, 42551), (116, 42626), (121, 42653), (133, 42740), (135, 42752), (136, 42755),

Gene: FarmResident_56 Start: 41100, Stop: 41447, Start Num: 67
Candidate Starts for FarmResident_56:
(Start: 67 @41100 has 49 MA's), (85, 41145), (128, 41376), (133, 41406), (136, 41421),

Gene: Feyre_49 Start: 39381, Stop: 39719, Start Num: 65

Candidate Starts for Feyre_49:
(Start: 65 @39381 has 146 MA's), (111, 39543), (124, 39621), (126, 39636), (127, 39645), (132, 39675),

Gene: Finemlucis_57 Start: 42764, Stop: 43099, Start Num: 67
Candidate Starts for Finemlucis_57:
(Start: 67 @42764 has 49 MA's), (74, 42788), (82, 42803), (99, 42872), (116, 42947), (121, 42974), (133, 43061), (135, 43073), (136, 43076),

Gene: Finnry_56 Start: 42903, Stop: 43244, Start Num: 65
Candidate Starts for Finnry_56:
(Start: 65 @42903 has 146 MA's), (116, 43089), (133, 43203), (135, 43215),

Gene: FireRed_69 Start: 44405, Stop: 44737, Start Num: 65
Candidate Starts for FireRed_69:
(14, 44135), (16, 44153), (24, 44261), (Start: 65 @44405 has 146 MA's), (Start: 90 @44471 has 1 MA's), (95, 44501), (125, 44648), (133, 44702),

Gene: Flypotenuse_61 Start: 42899, Stop: 43231, Start Num: 65
Candidate Starts for Flypotenuse_61:
(Start: 65 @42899 has 146 MA's), (Start: 90 @42965 has 1 MA's), (95, 42995), (125, 43142), (133, 43196),

Gene: FoghornLeghorn_59 Start: 41912, Stop: 42244, Start Num: 65
Candidate Starts for FoghornLeghorn_59:
(14, 41642), (16, 41660), (24, 41768), (Start: 65 @41912 has 146 MA's), (Start: 90 @41978 has 1 MA's), (95, 42008), (125, 42155), (133, 42209),

Gene: Fork_86 Start: 51009, Stop: 50662, Start Num: 62
Candidate Starts for Fork_86:
(Start: 33 @51087 has 10 MA's), (Start: 62 @51009 has 26 MA's), (75, 50973), (80, 50961), (95, 50898), (99, 50883), (101, 50877), (113, 50832), (115, 50826),

Gene: Forthebois_4 Start: 1381, Stop: 971, Start Num: 34
Candidate Starts for Forthebois_4:
(22, 1450), (Start: 34 @1381 has 3 MA's), (56, 1312), (72, 1285), (86, 1252), (92, 1225), (110, 1147), (123, 1072), (129, 1027), (131, 1009),

Gene: Francois_57 Start: 39089, Stop: 39421, Start Num: 64
Candidate Starts for Francois_57:
(40, 39026), (48, 39053), (Start: 64 @39089 has 20 MA's), (84, 39143), (95, 39194), (111, 39254),

Gene: Fribs8_56 Start: 42558, Stop: 42896, Start Num: 67
Candidate Starts for Fribs8_56:
(11, 42249), (Start: 67 @42558 has 49 MA's), (76, 42585), (86, 42609), (Start: 90 @42627 has 1 MA's), (116, 42747), (123, 42786), (137, 42879),

Gene: Gabriela_54 Start: 40893, Stop: 41228, Start Num: 67
Candidate Starts for Gabriela_54:
(Start: 67 @40893 has 49 MA's), (74, 40917), (82, 40932), (99, 41001), (116, 41076), (121, 41103), (133, 41190), (135, 41202), (136, 41205),

Gene: Gage_67 Start: 43689, Stop: 44021, Start Num: 65

Candidate Starts for Gage_67:
(Start: 65 @43689 has 146 MA's), (Start: 90 @43755 has 1 MA's), (95, 43785), (125, 43932), (133, 43986),

Gene: Ganymede_54 Start: 39147, Stop: 39497, Start Num: 59
Candidate Starts for Ganymede_54:
(Start: 59 @39147 has 70 MA's), (Start: 64 @39153 has 20 MA's), (72, 39177), (83, 39207), (89, 39225), (127, 39423),

Gene: Gardann_58 Start: 42479, Stop: 42814, Start Num: 67
Candidate Starts for Gardann_58:
(Start: 67 @42479 has 49 MA's), (74, 42503), (82, 42518), (99, 42587), (116, 42662), (121, 42689), (133, 42776), (135, 42788), (136, 42791),

Gene: Geeche_72 Start: 47833, Stop: 48279, Start Num: 33
Candidate Starts for Geeche_72:
(17, 47713), (Start: 33 @47833 has 10 MA's), (49, 47884), (53, 47893), (71, 47932), (106, 48061), (117, 48127), (118, 48130), (122, 48151), (136, 48247), (139, 48265),

Gene: Geeche_9 Start: 2194, Stop: 2532, Start Num: 63
Candidate Starts for Geeche_9:
(Start: 63 @2194 has 14 MA's), (Start: 90 @2263 has 1 MA's), (131, 2482), (137, 2512),

Gene: Gemini_70 Start: 44206, Stop: 44538, Start Num: 65
Candidate Starts for Gemini_70:
(Start: 65 @44206 has 146 MA's), (Start: 90 @44272 has 1 MA's), (95, 44302), (125, 44449), (133, 44503),

Gene: Gengar_48 Start: 37992, Stop: 38330, Start Num: 65
Candidate Starts for Gengar_48:
(Start: 65 @37992 has 146 MA's), (111, 38154), (124, 38232), (126, 38247), (127, 38256), (132, 38286),

Gene: Geraldini_56 Start: 39818, Stop: 40168, Start Num: 59
Candidate Starts for Geraldini_56:
(Start: 59 @39818 has 70 MA's), (Start: 64 @39824 has 20 MA's), (72, 39848), (83, 39878), (127, 40094),

Gene: Gerri43_60 Start: 35929, Stop: 35534, Start Num: 39
Candidate Starts for Gerri43_60:
(Start: 23 @36010 has 1 MA's), (30, 35959), (31, 35953), (Start: 39 @35929 has 7 MA's), (84, 35818), (86, 35815), (93, 35788), (104, 35737),

Gene: Glexan_64 Start: 44026, Stop: 44358, Start Num: 65
Candidate Starts for Glexan_64:
(Start: 65 @44026 has 146 MA's), (Start: 90 @44092 has 1 MA's), (95, 44122), (125, 44269), (133, 44323),

Gene: GoldenSpark_69 Start: 43689, Stop: 44021, Start Num: 65
Candidate Starts for GoldenSpark_69:
(Start: 65 @43689 has 146 MA's), (Start: 90 @43755 has 1 MA's), (95, 43785), (125, 43932), (133, 43986),

Gene: Goldilocks_68 Start: 43190, Stop: 43522, Start Num: 65
Candidate Starts for Goldilocks_68:
(Start: 65 @43190 has 146 MA's), (Start: 90 @43256 has 1 MA's), (95, 43286), (125, 43433), (133, 43487),

Gene: GooberAzure_68 Start: 43689, Stop: 44021, Start Num: 65
Candidate Starts for GooberAzure_68:
(Start: 65 @43689 has 146 MA's), (Start: 90 @43755 has 1 MA's), (95, 43785), (125, 43932), (133, 43986),

Gene: GrandSlam_58 Start: 39602, Stop: 39934, Start Num: 64
Candidate Starts for GrandSlam_58:
(48, 39566), (Start: 64 @39602 has 20 MA's), (76, 39635), (84, 39656), (95, 39707), (111, 39767),

Gene: Greep_69 Start: 44697, Stop: 45029, Start Num: 65
Candidate Starts for Greep_69:
(14, 44427), (16, 44445), (24, 44553), (Start: 65 @44697 has 146 MA's), (Start: 90 @44763 has 1 MA's), (95, 44793), (125, 44940), (133, 44994),

Gene: Guanica15_55 Start: 38358, Stop: 38705, Start Num: 59
Candidate Starts for Guanica15_55:
(Start: 59 @38358 has 70 MA's), (Start: 64 @38364 has 20 MA's), (72, 38388), (83, 38418), (123, 38598), (127, 38634),

Gene: Guillsminger_49 Start: 37963, Stop: 38301, Start Num: 65
Candidate Starts for Guillsminger_49:
(Start: 65 @37963 has 146 MA's), (111, 38125), (124, 38203), (126, 38218), (127, 38227),

Gene: GuuelaD_56 Start: 42558, Stop: 42893, Start Num: 67
Candidate Starts for GuuelaD_56:
(Start: 67 @42558 has 49 MA's), (74, 42582), (82, 42597), (99, 42666), (116, 42741), (121, 42768), (133, 42855), (135, 42867), (136, 42870),

Gene: Hafay_58 Start: 42547, Stop: 42882, Start Num: 67
Candidate Starts for Hafay_58:
(Start: 67 @42547 has 49 MA's), (74, 42571), (82, 42586), (99, 42655), (116, 42730), (121, 42757), (133, 42844), (135, 42856), (136, 42859),

Gene: Halley_113 Start: 64619, Stop: 64954, Start Num: 65
Candidate Starts for Halley_113:
(Start: 65 @64619 has 146 MA's), (Start: 90 @64688 has 1 MA's), (111, 64781), (133, 64919),

Gene: Hamood_58 Start: 39602, Stop: 39934, Start Num: 64
Candidate Starts for Hamood_58:
(48, 39566), (Start: 64 @39602 has 20 MA's), (76, 39635), (84, 39656), (95, 39707), (111, 39767),

Gene: HanKaySha_65 Start: 42999, Stop: 43331, Start Num: 65
Candidate Starts for HanKaySha_65:
(Start: 65 @42999 has 146 MA's), (Start: 90 @43065 has 1 MA's), (95, 43095), (125, 43242), (133, 43296),

Gene: Harella_65 Start: 44542, Stop: 44874, Start Num: 65
Candidate Starts for Harella_65:

(Start: 65 @44542 has 146 MA's), (Start: 90 @44608 has 1 MA's), (95, 44638), (125, 44785), (133, 44839),

Gene: HedwigODU_53 Start: 38771, Stop: 39121, Start Num: 59
Candidate Starts for HedwigODU_53:
(Start: 59 @38771 has 70 MA's), (Start: 64 @38777 has 20 MA's), (72, 38801), (83, 38831), (127, 39047),

Gene: Heftyboy_48 Start: 38138, Stop: 38476, Start Num: 65
Candidate Starts for Heftyboy_48:
(2, 37655), (7, 37781), (Start: 65 @38138 has 146 MA's), (111, 38300), (124, 38378), (126, 38393), (127, 38402), (132, 38432),

Gene: Hiraya_57 Start: 42513, Stop: 42848, Start Num: 67
Candidate Starts for Hiraya_57:
(Start: 67 @42513 has 49 MA's), (74, 42537), (82, 42552), (99, 42621), (116, 42696), (121, 42723), (133, 42810), (135, 42822), (136, 42825),

Gene: Hirko_75 Start: 46796, Stop: 47161, Start Num: 50
Candidate Starts for Hirko_75:
(Start: 50 @46796 has 1 MA's), (96, 46922), (136, 47144),

Gene: HollowPurple_91 Start: 51568, Stop: 51221, Start Num: 62
Candidate Starts for HollowPurple_91:
(Start: 33 @51646 has 10 MA's), (Start: 62 @51568 has 26 MA's), (75, 51532), (80, 51520), (95, 51457), (99, 51442), (101, 51436), (113, 51391), (115, 51385),

Gene: Holt_70 Start: 44103, Stop: 44435, Start Num: 65
Candidate Starts for Holt_70:
(Start: 65 @44103 has 146 MA's), (Start: 90 @44169 has 1 MA's), (95, 44199), (125, 44346), (133, 44400),

Gene: Homura_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for Homura_53:
(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: Hoonter_68 Start: 43689, Stop: 44021, Start Num: 65
Candidate Starts for Hoonter_68:
(Start: 65 @43689 has 146 MA's), (Start: 90 @43755 has 1 MA's), (95, 43785), (125, 43932), (133, 43986),

Gene: Hopey_65 Start: 43531, Stop: 43863, Start Num: 65
Candidate Starts for Hopey_65:
(14, 43261), (16, 43279), (24, 43387), (Start: 65 @43531 has 146 MA's), (Start: 90 @43597 has 1 MA's), (95, 43627), (125, 43774), (133, 43828),

Gene: HufflyPuff_68 Start: 44361, Stop: 44693, Start Num: 65
Candidate Starts for HufflyPuff_68:
(14, 44091), (16, 44109), (24, 44217), (Start: 65 @44361 has 146 MA's), (Start: 90 @44427 has 1 MA's), (95, 44457), (125, 44604), (133, 44658),

Gene: HumptyDumpty_97 Start: 62495, Stop: 62878, Start Num: 47

Candidate Starts for HumptyDumpty_97:
(Start: 47 @62495 has 19 MA's), (49, 62501), (Start: 70 @62546 has 4 MA's), (76, 62570), (82, 62585), (86, 62594), (95, 62639), (99, 62654), (102, 62666), (109, 62690), (111, 62699), (113, 62720), (120, 62753), (129, 62816),

Gene: Hyperbowlee_53 Start: 39083, Stop: 39433, Start Num: 59
Candidate Starts for Hyperbowlee_53:
(Start: 59 @39083 has 70 MA's), (Start: 64 @39089 has 20 MA's), (72, 39113), (83, 39143), (127, 39359),

Gene: Icee_66 Start: 43356, Stop: 43688, Start Num: 65
Candidate Starts for Icee_66:
(Start: 65 @43356 has 146 MA's), (Start: 90 @43422 has 1 MA's), (95, 43452), (125, 43599), (133, 43653),

Gene: Illumine_56 Start: 39527, Stop: 39877, Start Num: 60
Candidate Starts for Illumine_56:
(Start: 60 @39527 has 19 MA's), (Start: 64 @39533 has 20 MA's), (72, 39557), (83, 39587), (127, 39803),

Gene: Inky_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for Inky_53:
(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: InvictusManeo_47 Start: 37076, Stop: 37417, Start Num: 65
Candidate Starts for InvictusManeo_47:
(32, 36992), (Start: 65 @37076 has 146 MA's), (77, 37112), (99, 37193), (107, 37220), (111, 37238), (118, 37277), (130, 37361),

Gene: Issa7_89 Start: 51024, Stop: 50677, Start Num: 62
Candidate Starts for Issa7_89:
(Start: 33 @51102 has 10 MA's), (Start: 62 @51024 has 26 MA's), (75, 50988), (80, 50976), (95, 50913), (99, 50898), (101, 50892), (123, 50796),

Gene: Itos_56 Start: 41349, Stop: 41684, Start Num: 67
Candidate Starts for Itos_56:
(Start: 67 @41349 has 49 MA's), (74, 41373), (82, 41388), (99, 41457), (116, 41532), (121, 41559), (133, 41646), (135, 41658), (136, 41661),

Gene: JAWS_53 Start: 38760, Stop: 39110, Start Num: 59
Candidate Starts for JAWS_53:
(Start: 59 @38760 has 70 MA's), (Start: 64 @38766 has 20 MA's), (72, 38790), (83, 38820), (127, 39036),

Gene: JaNo_96 Start: 62466, Stop: 62849, Start Num: 47
Candidate Starts for JaNo_96:
(Start: 47 @62466 has 19 MA's), (49, 62472), (Start: 70 @62517 has 4 MA's), (76, 62541), (82, 62556), (86, 62565), (95, 62610), (99, 62625), (102, 62637), (109, 62661), (111, 62670), (113, 62691), (120, 62724), (129, 62787),

Gene: Jace_70 Start: 41191, Stop: 41544, Start Num: 67
Candidate Starts for Jace_70:

(24, 41044), (43, 41131), (55, 41170), (Start: 67 @41191 has 49 MA's), (Start: 90 @41263 has 1 MA's), (95, 41290), (133, 41500),

Gene: Jarvi_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for Jarvi_53:
(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: JayCookie_97 Start: 63028, Stop: 63411, Start Num: 47
Candidate Starts for JayCookie_97:
(Start: 47 @63028 has 19 MA's), (49, 63034), (Start: 70 @63079 has 4 MA's), (76, 63103), (82, 63118), (86, 63127), (95, 63172), (99, 63187), (102, 63199), (109, 63223), (111, 63232), (113, 63253), (120, 63286), (129, 63349),

Gene: Jayhawk_54 Start: 38769, Stop: 39119, Start Num: 59
Candidate Starts for Jayhawk_54:
(Start: 59 @38769 has 70 MA's), (Start: 64 @38775 has 20 MA's), (72, 38799), (83, 38829), (127, 39045),

Gene: JeTaime_65 Start: 44183, Stop: 44515, Start Num: 65
Candidate Starts for JeTaime_65:
(Start: 65 @44183 has 146 MA's), (Start: 90 @44249 has 1 MA's), (95, 44279), (125, 44426), (133, 44480),

Gene: Jeckyll_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for Jeckyll_53:
(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: Jobypre_56 Start: 42639, Stop: 42980, Start Num: 65
Candidate Starts for Jobypre_56:
(Start: 65 @42639 has 146 MA's), (82, 42681), (116, 42825), (133, 42939),

Gene: Joy99_53 Start: 38815, Stop: 39165, Start Num: 59
Candidate Starts for Joy99_53:
(Start: 59 @38815 has 70 MA's), (Start: 64 @38821 has 20 MA's), (72, 38845), (83, 38875), (127, 39091),

Gene: Jubie_55 Start: 42774, Stop: 43115, Start Num: 65
Candidate Starts for Jubie_55:
(Start: 65 @42774 has 146 MA's), (82, 42816), (116, 42960), (133, 43074),

Gene: JuicyJay_108 Start: 65744, Stop: 66079, Start Num: 65
Candidate Starts for JuicyJay_108:
(Start: 65 @65744 has 146 MA's), (Start: 90 @65813 has 1 MA's), (111, 65906), (133, 66044),

Gene: Jumbo_66 Start: 57675, Stop: 57277, Start Num: 36
Candidate Starts for Jumbo_66:
(Start: 34 @57687 has 3 MA's), (Start: 36 @57675 has 1 MA's), (72, 57594), (82, 57567), (86, 57558), (Start: 90 @57543 has 1 MA's), (133, 57315),

Gene: KBurrousTX_95 Start: 63905, Stop: 64288, Start Num: 47
Candidate Starts for KBurrousTX_95:

(21, 63788), (Start: 47 @63905 has 19 MA's), (49, 63911), (71, 63959), (76, 63980), (79, 63986), (80, 63989), (82, 63995), (95, 64049), (99, 64064), (102, 64076), (108, 64094), (111, 64109), (113, 64130), (116, 64139), (129, 64226), (130, 64238), (136, 64268), (137, 64274),

Gene: Kabreeze_97 Start: 62552, Stop: 62935, Start Num: 47
Candidate Starts for Kabreeze_97:
(Start: 47 @62552 has 19 MA's), (49, 62558), (Start: 70 @62603 has 4 MA's), (76, 62627), (82, 62642), (86, 62651), (95, 62696), (99, 62711), (102, 62723), (109, 62747), (111, 62756), (113, 62777), (120, 62810), (129, 62873),

Gene: Kahlid_57 Start: 42449, Stop: 42784, Start Num: 67
Candidate Starts for Kahlid_57:
(Start: 67 @42449 has 49 MA's), (74, 42473), (82, 42488), (99, 42557), (116, 42632), (121, 42659), (133, 42746), (135, 42758), (136, 42761),

Gene: Kanye_62 Start: 43038, Stop: 43370, Start Num: 65
Candidate Starts for Kanye_62:
(Start: 65 @43038 has 146 MA's), (Start: 90 @43104 has 1 MA's), (95, 43134), (125, 43281), (133, 43335),

Gene: KashFlow_104 Start: 59500, Stop: 59835, Start Num: 65
Candidate Starts for KashFlow_104:
(Start: 65 @59500 has 146 MA's), (Start: 90 @59569 has 1 MA's), (111, 59662), (133, 59800),

Gene: Kheparia_53 Start: 36759, Stop: 37109, Start Num: 59
Candidate Starts for Kheparia_53:
(Start: 59 @36759 has 70 MA's), (Start: 64 @36765 has 20 MA's), (72, 36789), (83, 36819), (127, 37035),

Gene: KiSi_57 Start: 39435, Stop: 39782, Start Num: 57
Candidate Starts for KiSi_57:
(Start: 57 @39435 has 8 MA's), (72, 39465), (95, 39546), (124, 39684), (130, 39729), (135, 39756), (136, 39759),

Gene: Kimchi_69 Start: 43692, Stop: 44024, Start Num: 65
Candidate Starts for Kimchi_69:
(Start: 65 @43692 has 146 MA's), (Start: 90 @43758 has 1 MA's), (95, 43788), (125, 43935), (133, 43989),

Gene: Kingsolomon_55 Start: 42646, Stop: 42987, Start Num: 65
Candidate Starts for Kingsolomon_55:
(Start: 65 @42646 has 146 MA's), (116, 42832), (133, 42946),

Gene: KirDoubleO7_54 Start: 42677, Stop: 43018, Start Num: 65
Candidate Starts for KirDoubleO7_54:
(Start: 65 @42677 has 146 MA's), (116, 42863), (133, 42977), (135, 42989),

Gene: Kratio_46 Start: 36625, Stop: 36966, Start Num: 65
Candidate Starts for Kratio_46:
(Start: 65 @36625 has 146 MA's), (77, 36661), (99, 36742), (107, 36769), (111, 36787), (118, 36826), (130, 36910),

Gene: Kropertea_54 Start: 41244, Stop: 41591, Start Num: 67

Candidate Starts for Kropertea_54:
(Start: 67 @41244 has 49 MA's), (85, 41289), (102, 41364), (128, 41520), (133, 41550), (136, 41565),

Gene: Krueger_60 Start: 39517, Stop: 39858, Start Num: 65
Candidate Starts for Krueger_60:
(Start: 65 @39517 has 146 MA's), (86, 39574), (135, 39835),

Gene: Krypton555_57 Start: 42871, Stop: 43212, Start Num: 65
Candidate Starts for Krypton555_57:
(Start: 65 @42871 has 146 MA's), (116, 43057), (133, 43171), (135, 43183),

Gene: Larva_49 Start: 38025, Stop: 38363, Start Num: 65
Candidate Starts for Larva_49:
(Start: 65 @38025 has 146 MA's), (80, 38067), (83, 38076), (99, 38142), (118, 38226), (124, 38265), (126, 38280),

Gene: LastNadiia_62 Start: 38916, Stop: 38524, Start Num: 39
Candidate Starts for LastNadiia_62:
(29, 38943), (Start: 39 @38916 has 7 MA's), (73, 38838), (89, 38796), (93, 38781), (94, 38766), (98, 38751), (136, 38541), (137, 38535),

Gene: LaterM_54 Start: 39652, Stop: 40002, Start Num: 60
Candidate Starts for LaterM_54:
(Start: 60 @39652 has 19 MA's), (Start: 64 @39658 has 20 MA's), (72, 39682), (127, 39928),

Gene: Laure_210 Start: 131198, Stop: 131542, Start Num: 62
Candidate Starts for Laure_210:
(Start: 62 @131198 has 26 MA's), (79, 131237), (91, 131270), (123, 131429), (137, 131522),

Gene: Lavahound_53 Start: 40141, Stop: 40485, Start Num: 57
Candidate Starts for Lavahound_53:
(Start: 57 @40141 has 8 MA's), (83, 40198), (95, 40249), (124, 40387), (135, 40459),

Gene: LeMond_57 Start: 39416, Stop: 39763, Start Num: 57
Candidate Starts for LeMond_57:
(Start: 57 @39416 has 8 MA's), (72, 39446), (95, 39527), (124, 39665), (130, 39710), (135, 39737),

Gene: Leston_48 Start: 38092, Stop: 38430, Start Num: 65
Candidate Starts for Leston_48:
(Start: 65 @38092 has 146 MA's), (111, 38254), (124, 38332), (126, 38347), (127, 38356), (132, 38386),

Gene: Lewan_58 Start: 42503, Stop: 42838, Start Num: 67
Candidate Starts for Lewan_58:
(Start: 67 @42503 has 49 MA's), (74, 42527), (82, 42542), (99, 42611), (116, 42686), (121, 42713), (133, 42800), (135, 42812), (136, 42815),

Gene: LilDestine_57 Start: 42476, Stop: 42811, Start Num: 67
Candidate Starts for LilDestine_57:
(Start: 67 @42476 has 49 MA's), (74, 42500), (82, 42515), (99, 42584), (116, 42659), (121, 42686), (133, 42773), (135, 42785), (136, 42788),

Gene: LilDirt_48 Start: 36834, Stop: 37175, Start Num: 65

Candidate Starts for LilDirt_48:
(32, 36750), (Start: 65 @36834 has 146 MA's), (77, 36870), (99, 36951), (107, 36978), (111, 36996), (118, 37035), (130, 37119),

Gene: LilJank_74 Start: 45663, Stop: 46004, Start Num: 64
Candidate Starts for LilJank_74:
(Start: 64 @45663 has 20 MA's), (72, 45684), (74, 45690), (Start: 90 @45732 has 1 MA's), (94, 45759), (113, 45840), (116, 45849), (124, 45900), (138, 45990),

Gene: Lilac_67 Start: 43316, Stop: 43648, Start Num: 65
Candidate Starts for Lilac_67:
(14, 43046), (16, 43064), (24, 43172), (Start: 65 @43316 has 146 MA's), (Start: 90 @43382 has 1 MA's), (95, 43412), (125, 43559), (133, 43613),

Gene: Lilbeanie_82 Start: 51693, Stop: 52034, Start Num: 64
Candidate Starts for Lilbeanie_82:
(41, 51633), (Start: 64 @51693 has 20 MA's), (Start: 90 @51771 has 1 MA's), (115, 51885), (131, 51990), (135, 52011), (137, 52020),

Gene: Lilizi_66 Start: 42990, Stop: 43322, Start Num: 65
Candidate Starts for Lilizi_66:
(14, 42720), (16, 42738), (24, 42846), (Start: 65 @42990 has 146 MA's), (Start: 90 @43056 has 1 MA's), (95, 43086), (125, 43233), (133, 43287),

Gene: LindNT_52 Start: 38974, Stop: 39324, Start Num: 59
Candidate Starts for LindNT_52:
(Start: 59 @38974 has 70 MA's), (Start: 64 @38980 has 20 MA's), (72, 39004), (83, 39034), (127, 39250),

Gene: Linus_97 Start: 63000, Stop: 63383, Start Num: 47
Candidate Starts for Linus_97:
(Start: 47 @63000 has 19 MA's), (49, 63006), (Start: 70 @63051 has 4 MA's), (76, 63075), (82, 63090), (86, 63099), (95, 63144), (99, 63159), (102, 63171), (111, 63204), (113, 63225), (120, 63258), (129, 63321),

Gene: Livelaughbron_67 Start: 44492, Stop: 44824, Start Num: 65
Candidate Starts for Livelaughbron_67:
(14, 44222), (16, 44240), (24, 44348), (Start: 65 @44492 has 146 MA's), (Start: 90 @44558 has 1 MA's), (95, 44588), (125, 44735), (133, 44789),

Gene: LiyuLake_55 Start: 42693, Stop: 43034, Start Num: 65
Candidate Starts for LiyuLake_55:
(Start: 65 @42693 has 146 MA's), (116, 42879), (133, 42993), (135, 43005),

Gene: Llorens_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for Llorens_53:
(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: Loadrie_56 Start: 42531, Stop: 42866, Start Num: 67
Candidate Starts for Loadrie_56:
(Start: 67 @42531 has 49 MA's), (74, 42555), (82, 42570), (99, 42639), (116, 42714), (121, 42741), (133, 42828), (135, 42840), (136, 42843),

Gene: Lokum_54 Start: 38887, Stop: 39237, Start Num: 59
Candidate Starts for Lokum_54:
(Start: 59 @38887 has 70 MA's), (Start: 64 @38893 has 20 MA's), (72, 38917), (83, 38947), (127, 39163),

Gene: Lolly9_55 Start: 42464, Stop: 42805, Start Num: 65
Candidate Starts for Lolly9_55:
(Start: 65 @42464 has 146 MA's), (99, 42575), (116, 42650), (132, 42758), (133, 42764), (135, 42776),

Gene: Lozinak_10 Start: 2375, Stop: 2713, Start Num: 63
Candidate Starts for Lozinak_10:
(Start: 63 @2375 has 14 MA's), (Start: 90 @2444 has 1 MA's), (131, 2663),

Gene: Lozinak_74 Start: 48607, Stop: 49053, Start Num: 33
Candidate Starts for Lozinak_74:
(17, 48487), (Start: 33 @48607 has 10 MA's), (49, 48658), (53, 48667), (71, 48706), (106, 48835), (117, 48901), (118, 48904), (122, 48925), (136, 49021), (139, 49039),

Gene: Lucky2013_104 Start: 59065, Stop: 59400, Start Num: 65
Candidate Starts for Lucky2013_104:
(Start: 65 @59065 has 146 MA's), (Start: 90 @59134 has 1 MA's), (111, 59227), (133, 59365),

Gene: Lumos_57 Start: 42636, Stop: 42977, Start Num: 65
Candidate Starts for Lumos_57:
(Start: 65 @42636 has 146 MA's), (82, 42678), (116, 42822), (133, 42936),

Gene: Lunahalos_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for Lunahalos_53:
(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: Lyell_90 Start: 51220, Stop: 50873, Start Num: 62
Candidate Starts for Lyell_90:
(Start: 33 @51298 has 10 MA's), (Start: 62 @51220 has 26 MA's), (75, 51184), (80, 51172), (95, 51109), (99, 51094), (101, 51088), (123, 50992),

Gene: Lymara_94 Start: 61459, Stop: 61842, Start Num: 47
Candidate Starts for Lymara_94:
(Start: 47 @61459 has 19 MA's), (49, 61465), (71, 61513), (76, 61534), (79, 61540), (82, 61549), (95, 61603), (99, 61618), (102, 61630), (109, 61654), (111, 61663), (129, 61780), (136, 61822),

Gene: Lynnae_58 Start: 42474, Stop: 42809, Start Num: 67
Candidate Starts for Lynnae_58:
(Start: 67 @42474 has 49 MA's), (74, 42498), (82, 42513), (99, 42582), (116, 42657), (121, 42684), (133, 42771), (135, 42783), (136, 42786),

Gene: MISSy_66 Start: 43414, Stop: 43746, Start Num: 65
Candidate Starts for MISSy_66:
(14, 43144), (16, 43162), (24, 43270), (Start: 65 @43414 has 146 MA's), (Start: 90 @43480 has 1 MA's), (95, 43510), (125, 43657), (133, 43711),

Gene: MPhalcon_66 Start: 43407, Stop: 43739, Start Num: 65

Candidate Starts for MPhalcon_66:
(14, 43137), (16, 43155), (24, 43263), (Start: 65 @43407 has 146 MA's), (Start: 90 @43473 has 1 MA's), (95, 43503), (125, 43650), (133, 43704),

Gene: MaVan_56 Start: 41910, Stop: 42248, Start Num: 67
Candidate Starts for MaVan_56:
(10, 41589), (11, 41601), (Start: 67 @41910 has 49 MA's), (76, 41937), (86, 41961), (Start: 90 @41979 has 1 MA's), (116, 42099), (123, 42138), (137, 42231),

Gene: MacKat_48 Start: 34234, Stop: 34584, Start Num: 60
Candidate Starts for MacKat_48:
(Start: 60 @34234 has 19 MA's), (Start: 64 @34240 has 20 MA's), (72, 34264), (83, 34294), (127, 34510),

Gene: Makima_60 Start: 38449, Stop: 38051, Start Num: 38
Candidate Starts for Makima_60:
(Start: 38 @38449 has 1 MA's), (83, 38341), (93, 38308), (98, 38278), (136, 38068), (137, 38062),

Gene: MalagasyRose_56 Start: 38407, Stop: 38751, Start Num: 61
Candidate Starts for MalagasyRose_56:
(Start: 61 @38407 has 1 MA's), (66, 38416), (72, 38434), (74, 38440), (Start: 90 @38482 has 1 MA's), (95, 38512), (99, 38527), (107, 38557), (116, 38602), (135, 38725),

Gene: MarkPhew_56 Start: 39122, Stop: 39454, Start Num: 69
Candidate Starts for MarkPhew_56:
(Start: 63 @39113 has 14 MA's), (Start: 69 @39122 has 1 MA's), (72, 39137), (95, 39218), (135, 39428),

Gene: Marshmallow_63 Start: 44184, Stop: 44516, Start Num: 65
Candidate Starts for Marshmallow_63:
(Start: 65 @44184 has 146 MA's), (Start: 90 @44250 has 1 MA's), (95, 44280), (125, 44427), (133, 44481),

Gene: MarysWell_43 Start: 34814, Stop: 34485, Start Num: 70
Candidate Starts for MarysWell_43:
(Start: 70 @34814 has 4 MA's), (Start: 90 @34748 has 1 MA's), (102, 34694), (110, 34667), (113, 34643), (115, 34637), (137, 34502),

Gene: Maxxinista_67 Start: 43286, Stop: 43618, Start Num: 65
Candidate Starts for Maxxinista_67:
(14, 43016), (16, 43034), (24, 43142), (Start: 65 @43286 has 146 MA's), (Start: 90 @43352 has 1 MA's), (95, 43382), (125, 43529), (133, 43583),

Gene: McMater_56 Start: 39469, Stop: 39807, Start Num: 62
Candidate Starts for McMater_56:
(Start: 62 @39469 has 26 MA's), (81, 39511), (83, 39517), (99, 39583), (135, 39781),

Gene: MeaningOfLife_54 Start: 39641, Stop: 39991, Start Num: 59
Candidate Starts for MeaningOfLife_54:
(Start: 59 @39641 has 70 MA's), (Start: 64 @39647 has 20 MA's), (72, 39671), (83, 39701), (86, 39704), (127, 39917),

Gene: Megsy_55 Start: 39042, Stop: 39392, Start Num: 59

Candidate Starts for Megsy_55:
(Start: 59 @39042 has 70 MA's), (72, 39072), (118, 39252), (127, 39318),

Gene: MiaZeal_107 Start: 59696, Stop: 60031, Start Num: 65
Candidate Starts for MiaZeal_107:
(Start: 65 @59696 has 146 MA's), (Start: 90 @59765 has 1 MA's), (111, 59858), (133, 59996),

Gene: Miley16_57 Start: 42443, Stop: 42778, Start Num: 67
Candidate Starts for Miley16_57:
(Start: 67 @42443 has 49 MA's), (74, 42467), (82, 42482), (99, 42551), (116, 42626), (121, 42653), (133, 42740), (135, 42752), (136, 42755),

Gene: MiniLon_59 Start: 42465, Stop: 42806, Start Num: 65
Candidate Starts for MiniLon_59:
(Start: 65 @42465 has 146 MA's), (99, 42576), (116, 42651), (132, 42759), (133, 42765), (135, 42777),

Gene: MiniMac_59 Start: 42463, Stop: 42804, Start Num: 65
Candidate Starts for MiniMac_59:
(Start: 65 @42463 has 146 MA's), (99, 42574), (116, 42649), (132, 42757), (133, 42763), (135, 42775),

Gene: Miryou_51 Start: 40294, Stop: 40632, Start Num: 65
Candidate Starts for Miryou_51:
(Start: 65 @40294 has 146 MA's), (111, 40456), (124, 40534), (126, 40549), (127, 40558), (132, 40588),

Gene: Misfit_66 Start: 44426, Stop: 44758, Start Num: 65
Candidate Starts for Misfit_66:
(14, 44156), (16, 44174), (24, 44282), (Start: 65 @44426 has 146 MA's), (Start: 90 @44492 has 1 MA's), (95, 44522), (125, 44669), (133, 44723),

Gene: Miskis_8 Start: 2444, Stop: 2713, Start Num: 90
Candidate Starts for Miskis_8:
(Start: 63 @2375 has 14 MA's), (Start: 90 @2444 has 1 MA's), (131, 2663),

Gene: MkaliMitinis3_58 Start: 42515, Stop: 42850, Start Num: 67
Candidate Starts for MkaliMitinis3_58:
(Start: 67 @42515 has 49 MA's), (74, 42539), (82, 42554), (99, 42623), (116, 42698), (121, 42725), (133, 42812), (135, 42824), (136, 42827),

Gene: ModicumRichard_85 Start: 52045, Stop: 52392, Start Num: 58
Candidate Starts for ModicumRichard_85:
(42, 51994), (Start: 58 @52045 has 5 MA's), (73, 52078), (81, 52099), (Start: 90 @52126 has 1 MA's),

Gene: MollyToe_60 Start: 42256, Stop: 42588, Start Num: 65
Candidate Starts for MollyToe_60:
(Start: 65 @42256 has 146 MA's), (Start: 90 @42322 has 1 MA's), (95, 42352), (125, 42499), (133, 42553),

Gene: Moostard_55 Start: 42642, Stop: 42983, Start Num: 65
Candidate Starts for Moostard_55:
(Start: 65 @42642 has 146 MA's), (116, 42828), (133, 42942),

Gene: Mordred_97 Start: 62591, Stop: 62974, Start Num: 47

Candidate Starts for Mordred_97:
(Start: 47 @62591 has 19 MA's), (49, 62597), (Start: 70 @62642 has 4 MA's), (76, 62666), (82, 62681), (86, 62690), (95, 62735), (99, 62750), (102, 62762), (109, 62786), (111, 62795), (113, 62816), (120, 62849), (129, 62912),

Gene: Morgana_92 Start: 54214, Stop: 54561, Start Num: 58
Candidate Starts for Morgana_92:
(Start: 58 @54214 has 5 MA's), (73, 54247), (81, 54268), (Start: 90 @54295 has 1 MA's),

Gene: Mosby_61 Start: 42709, Stop: 43041, Start Num: 65
Candidate Starts for Mosby_61:
(14, 42439), (16, 42457), (24, 42565), (Start: 65 @42709 has 146 MA's), (Start: 90 @42775 has 1 MA's), (95, 42805), (125, 42952), (133, 43006),

Gene: MoyaNatalis_96 Start: 62474, Stop: 62857, Start Num: 47
Candidate Starts for MoyaNatalis_96:
(Start: 47 @62474 has 19 MA's), (49, 62480), (Start: 70 @62525 has 4 MA's), (76, 62549), (82, 62564), (86, 62573), (95, 62618), (99, 62633), (102, 62645), (109, 62669), (111, 62678), (113, 62699), (120, 62732), (129, 62795),

Gene: MsGreen_56 Start: 42639, Stop: 42980, Start Num: 65
Candidate Starts for MsGreen_56:
(Start: 65 @42639 has 146 MA's), (82, 42681), (116, 42825), (133, 42939),

Gene: Mulch_57 Start: 38831, Stop: 39163, Start Num: 64
Candidate Starts for Mulch_57:
(40, 38768), (48, 38795), (Start: 64 @38831 has 20 MA's), (76, 38864), (84, 38885), (95, 38936), (111, 38996),

Gene: Murica_68 Start: 44361, Stop: 44693, Start Num: 65
Candidate Starts for Murica_68:
(14, 44091), (16, 44109), (24, 44217), (Start: 65 @44361 has 146 MA's), (Start: 90 @44427 has 1 MA's), (95, 44457), (125, 44604), (133, 44658),

Gene: Murucutumbu_54 Start: 39751, Stop: 40101, Start Num: 60
Candidate Starts for Murucutumbu_54:
(Start: 60 @39751 has 19 MA's), (Start: 64 @39757 has 20 MA's), (72, 39781), (127, 40027),

Gene: Musetta_89 Start: 51559, Stop: 51212, Start Num: 62
Candidate Starts for Musetta_89:
(Start: 33 @51637 has 10 MA's), (Start: 62 @51559 has 26 MA's), (75, 51523), (80, 51511), (95, 51448), (99, 51433), (101, 51427), (123, 51331),

Gene: Mynx_54 Start: 39090, Stop: 39440, Start Num: 59
Candidate Starts for Mynx_54:
(Start: 59 @39090 has 70 MA's), (Start: 64 @39096 has 20 MA's), (72, 39120), (83, 39150), (127, 39366),

Gene: Myrale_65 Start: 44049, Stop: 44381, Start Num: 65
Candidate Starts for Myrale_65:
(Start: 65 @44049 has 146 MA's), (Start: 90 @44115 has 1 MA's), (95, 44145), (125, 44292), (133, 44346),

Gene: Nadeem_57 Start: 38819, Stop: 39151, Start Num: 64
Candidate Starts for Nadeem_57:
(40, 38756), (48, 38783), (Start: 64 @38819 has 20 MA's), (76, 38852), (84, 38873), (95, 38924), (111, 38984),

Gene: Nala_67 Start: 43919, Stop: 44251, Start Num: 65
Candidate Starts for Nala_67:
(14, 43649), (16, 43667), (24, 43775), (Start: 65 @43919 has 146 MA's), (Start: 90 @43985 has 1 MA's), (95, 44015), (125, 44162), (133, 44216),

Gene: NancyRae_56 Start: 38817, Stop: 39149, Start Num: 64
Candidate Starts for NancyRae_56:
(48, 38781), (Start: 64 @38817 has 20 MA's), (76, 38850), (84, 38871), (95, 38922), (111, 38982),

Gene: Necrophoxinus_92 Start: 51906, Stop: 51559, Start Num: 62
Candidate Starts for Necrophoxinus_92:
(Start: 33 @51984 has 10 MA's), (Start: 62 @51906 has 26 MA's), (75, 51870), (80, 51858), (95, 51795), (99, 51780), (101, 51774), (123, 51678),

Gene: Neighly_50 Start: 38024, Stop: 38362, Start Num: 65
Candidate Starts for Neighly_50:
(Start: 65 @38024 has 146 MA's), (80, 38066), (83, 38075), (99, 38141), (118, 38225), (124, 38264), (126, 38279),

Gene: Nekros_110 Start: 62621, Stop: 62956, Start Num: 65
Candidate Starts for Nekros_110:
(Start: 65 @62621 has 146 MA's), (Start: 90 @62690 has 1 MA's), (111, 62783), (133, 62921),

Gene: NelitzaMV_63 Start: 42998, Stop: 43330, Start Num: 65
Candidate Starts for NelitzaMV_63:
(Start: 65 @42998 has 146 MA's), (Start: 90 @43064 has 1 MA's), (95, 43094), (125, 43241), (133, 43295),

Gene: Nergal_50 Start: 36801, Stop: 37136, Start Num: 65
Candidate Starts for Nergal_50:
(45, 36756), (Start: 65 @36801 has 146 MA's), (82, 36846), (130, 37083), (133, 37098), (135, 37110), (136, 37113),

Gene: Netyap_58 Start: 42444, Stop: 42779, Start Num: 67
Candidate Starts for Netyap_58:
(Start: 67 @42444 has 49 MA's), (74, 42468), (82, 42483), (99, 42552), (116, 42627), (121, 42654), (133, 42741), (135, 42753), (136, 42756),

Gene: Neuvillette_60 Start: 35929, Stop: 35534, Start Num: 39
Candidate Starts for Neuvillette_60:
(Start: 23 @36010 has 1 MA's), (30, 35959), (31, 35953), (Start: 39 @35929 has 7 MA's), (84, 35818), (86, 35815), (93, 35788), (104, 35737),

Gene: Neville_70 Start: 44606, Stop: 44950, Start Num: 64
Candidate Starts for Neville_70:
(13, 44336), (20, 44444), (27, 44501), (28, 44507), (37, 44540), (Start: 64 @44606 has 20 MA's), (72, 44627), (Start: 90 @44675 has 1 MA's), (94, 44702), (113, 44783), (116, 44792), (131, 44894), (138, 44933),

Gene: Nibb_55 Start: 38811, Stop: 39158, Start Num: 57
Candidate Starts for Nibb_55:
(Start: 57 @38811 has 8 MA's), (Start: 65 @38820 has 146 MA's), (83, 38871), (95, 38922), (135, 39132),

Gene: Nibbles_55 Start: 41590, Stop: 41928, Start Num: 67
Candidate Starts for Nibbles_55:
(11, 41281), (Start: 67 @41590 has 49 MA's), (76, 41617), (86, 41641), (Start: 90 @41659 has 1 MA's), (116, 41779), (123, 41818), (137, 41911),

Gene: Nibley_100 Start: 59087, Stop: 59422, Start Num: 65
Candidate Starts for Nibley_100:
(Start: 65 @59087 has 146 MA's), (Start: 90 @59156 has 1 MA's), (111, 59249), (133, 59387),

Gene: Nicholas_55 Start: 42646, Stop: 42987, Start Num: 65
Candidate Starts for Nicholas_55:
(Start: 65 @42646 has 146 MA's), (116, 42832), (133, 42946),

Gene: Nicholasp3_57 Start: 42479, Stop: 42814, Start Num: 67
Candidate Starts for Nicholasp3_57:
(Start: 67 @42479 has 49 MA's), (74, 42503), (82, 42518), (99, 42587), (116, 42662), (121, 42689), (133, 42776), (135, 42788), (136, 42791),

Gene: Niklas_56 Start: 39530, Stop: 39868, Start Num: 62
Candidate Starts for Niklas_56:
(Start: 62 @39530 has 26 MA's), (81, 39572), (83, 39578), (99, 39644), (135, 39842),

Gene: Nimrod_66 Start: 44619, Stop: 44951, Start Num: 65
Candidate Starts for Nimrod_66:
(14, 44349), (16, 44367), (24, 44475), (Start: 65 @44619 has 146 MA's), (Start: 90 @44685 has 1 MA's), (95, 44715), (125, 44862), (133, 44916),

Gene: Norvs_10 Start: 2375, Stop: 2713, Start Num: 63
Candidate Starts for Norvs_10:
(Start: 63 @2375 has 14 MA's), (Start: 90 @2444 has 1 MA's), (131, 2663),

Gene: Norvs_74 Start: 48016, Stop: 48462, Start Num: 33
Candidate Starts for Norvs_74:
(17, 47896), (Start: 33 @48016 has 10 MA's), (49, 48067), (53, 48076), (71, 48115), (106, 48244), (117, 48310), (118, 48313), (122, 48334), (136, 48430), (139, 48448),

Gene: ObLaDi_85 Start: 52071, Stop: 52418, Start Num: 58
Candidate Starts for ObLaDi_85:
(Start: 58 @52071 has 5 MA's), (73, 52104), (81, 52125), (Start: 90 @52152 has 1 MA's),

Gene: OkiRoe_48 Start: 37965, Stop: 38303, Start Num: 65
Candidate Starts for OkiRoe_48:
(Start: 65 @37965 has 146 MA's), (111, 38127), (124, 38205), (126, 38220), (127, 38229), (132, 38259),

Gene: Omnicron_51 Start: 37572, Stop: 37910, Start Num: 65
Candidate Starts for Omnicron_51:

(3, 37089), (12, 37275), (Start: 65 @37572 has 146 MA's), (77, 37608), (80, 37614), (111, 37734), (124, 37812), (126, 37827), (127, 37836), (133, 37872),

Gene: OrionPax_64 Start: 43004, Stop: 43336, Start Num: 65
Candidate Starts for OrionPax_64:
(Start: 65 @43004 has 146 MA's), (Start: 90 @43070 has 1 MA's), (95, 43100), (125, 43247), (133, 43301),

Gene: Oscar_57 Start: 39321, Stop: 39668, Start Num: 57
Candidate Starts for Oscar_57:
(Start: 57 @39321 has 8 MA's), (72, 39351), (95, 39432), (124, 39570), (130, 39615), (135, 39642),

Gene: OverPar_58 Start: 42531, Stop: 42866, Start Num: 67
Candidate Starts for OverPar_58:
(Start: 67 @42531 has 49 MA's), (74, 42555), (82, 42570), (99, 42639), (116, 42714), (121, 42741), (133, 42828), (135, 42840), (136, 42843),

Gene: PSonyx_49 Start: 34991, Stop: 34641, Start Num: 70
Candidate Starts for PSonyx_49:
(Start: 70 @34991 has 4 MA's), (Start: 90 @34925 has 1 MA's), (133, 34688),

Gene: PYPDinur_53 Start: 41170, Stop: 41517, Start Num: 67
Candidate Starts for PYPDinur_53:
(Start: 67 @41170 has 49 MA's), (85, 41215), (111, 41335), (128, 41446), (133, 41476), (136, 41491),

Gene: PaddyBaddy_65 Start: 43010, Stop: 43342, Start Num: 65
Candidate Starts for PaddyBaddy_65:
(14, 42740), (16, 42758), (24, 42866), (Start: 65 @43010 has 146 MA's), (Start: 90 @43076 has 1 MA's), (95, 43106), (125, 43253), (133, 43307),

Gene: Padfoot_53 Start: 39083, Stop: 39433, Start Num: 59
Candidate Starts for Padfoot_53:
(Start: 59 @39083 has 70 MA's), (Start: 64 @39089 has 20 MA's), (72, 39113), (83, 39143), (127, 39359),

Gene: Padpat_55 Start: 38765, Stop: 39115, Start Num: 59
Candidate Starts for Padpat_55:
(Start: 59 @38765 has 70 MA's), (Start: 64 @38771 has 20 MA's), (72, 38795), (83, 38825), (127, 39041),

Gene: Palpatine_67 Start: 44391, Stop: 44723, Start Num: 65
Candidate Starts for Palpatine_67:
(14, 44121), (16, 44139), (24, 44247), (Start: 65 @44391 has 146 MA's), (Start: 90 @44457 has 1 MA's), (95, 44487), (125, 44634), (133, 44688),

Gene: Paola_48 Start: 37963, Stop: 38301, Start Num: 65
Candidate Starts for Paola_48:
(Start: 65 @37963 has 146 MA's), (111, 38125), (124, 38203), (126, 38218), (127, 38227),

Gene: Parada_57 Start: 38831, Stop: 39163, Start Num: 64
Candidate Starts for Parada_57:
(40, 38768), (48, 38795), (Start: 64 @38831 has 20 MA's), (76, 38864), (84, 38885), (95, 38936), (111, 38996),

Gene: Pat3_63 Start: 42153, Stop: 42485, Start Num: 65
Candidate Starts for Pat3_63:
(Start: 65 @42153 has 146 MA's), (Start: 90 @42219 has 1 MA's), (95, 42249), (125, 42396), (133, 42450),

Gene: Peanam_56 Start: 39488, Stop: 39826, Start Num: 62
Candidate Starts for Peanam_56:
(Start: 62 @39488 has 26 MA's), (81, 39530), (83, 39536), (99, 39602), (135, 39800),

Gene: Peel_53 Start: 38888, Stop: 39238, Start Num: 59
Candidate Starts for Peel_53:
(Start: 59 @38888 has 70 MA's), (Start: 64 @38894 has 20 MA's), (72, 38918), (83, 38948), (127, 39164),

Gene: Petra64142_69 Start: 44855, Stop: 45187, Start Num: 65
Candidate Starts for Petra64142_69:
(14, 44585), (16, 44603), (24, 44711), (Start: 65 @44855 has 146 MA's), (Start: 90 @44921 has 1 MA's), (95, 44951), (125, 45098), (133, 45152),

Gene: Pharb_52 Start: 38109, Stop: 38447, Start Num: 68
Candidate Starts for Pharb_52:
(Start: 68 @38109 has 2 MA's), (75, 38133), (83, 38154), (89, 38169), (102, 38229), (110, 38268), (135, 38424), (136, 38427),

Gene: PhatBacter_69 Start: 44405, Stop: 44737, Start Num: 65
Candidate Starts for PhatBacter_69:
(14, 44135), (16, 44153), (24, 44261), (Start: 65 @44405 has 146 MA's), (Start: 90 @44471 has 1 MA's), (95, 44501), (125, 44648), (133, 44702),

Gene: Phaux_67 Start: 44403, Stop: 44735, Start Num: 65
Candidate Starts for Phaux_67:
(14, 44133), (16, 44151), (24, 44259), (Start: 65 @44403 has 146 MA's), (Start: 90 @44469 has 1 MA's), (95, 44499), (125, 44646), (133, 44700),

Gene: PhelpsODU_55 Start: 38455, Stop: 38796, Start Num: 65
Candidate Starts for PhelpsODU_55:
(Start: 65 @38455 has 146 MA's), (86, 38512), (135, 38773),

Gene: PhinkBoden_11 Start: 2875, Stop: 3213, Start Num: 63
Candidate Starts for PhinkBoden_11:
(Start: 63 @2875 has 14 MA's), (Start: 90 @2944 has 1 MA's), (131, 3163), (137, 3193),

Gene: PhinkBoden_73 Start: 48397, Stop: 48843, Start Num: 33
Candidate Starts for PhinkBoden_73:
(17, 48277), (Start: 33 @48397 has 10 MA's), (49, 48448), (53, 48457), (71, 48496), (106, 48625), (117, 48691), (118, 48694), (122, 48715), (136, 48811), (139, 48829),

Gene: Phrank_57 Start: 38516, Stop: 38863, Start Num: 65
Candidate Starts for Phrank_57:
(Start: 65 @38516 has 146 MA's), (86, 38573), (135, 38834), (137, 38843),

Gene: Piatt_53 Start: 39083, Stop: 39433, Start Num: 59

Candidate Starts for Piatt_53:
(Start: 59 @39083 has 70 MA's), (Start: 64 @39089 has 20 MA's), (72, 39113), (83, 39143), (127, 39359),

Gene: Pimento_59 Start: 38730, Stop: 39062, Start Num: 64
Candidate Starts for Pimento_59:
(40, 38667), (48, 38694), (Start: 62 @38727 has 26 MA's), (Start: 64 @38730 has 20 MA's), (76, 38763), (84, 38784), (95, 38835), (111, 38895),

Gene: Pisa1_53 Start: 39744, Stop: 40094, Start Num: 60
Candidate Starts for Pisa1_53:
(Start: 60 @39744 has 19 MA's), (Start: 64 @39750 has 20 MA's), (72, 39774), (83, 39804), (127, 40020),

Gene: Pisa4_47 Start: 35113, Stop: 35463, Start Num: 60
Candidate Starts for Pisa4_47:
(Start: 60 @35113 has 19 MA's), (Start: 64 @35119 has 20 MA's), (72, 35143), (83, 35173), (127, 35389),

Gene: Pokerus_52 Start: 38818, Stop: 39168, Start Num: 59
Candidate Starts for Pokerus_52:
(Start: 59 @38818 has 70 MA's), (Start: 64 @38824 has 20 MA's), (72, 38848), (83, 38878), (127, 39094),

Gene: Policronamos_68 Start: 44403, Stop: 44735, Start Num: 65
Candidate Starts for Policronamos_68:
(14, 44133), (16, 44151), (24, 44259), (Start: 65 @44403 has 146 MA's), (Start: 90 @44469 has 1 MA's), (95, 44499), (125, 44646), (133, 44700),

Gene: Poochiewood_54 Start: 40600, Stop: 40935, Start Num: 67
Candidate Starts for Poochiewood_54:
(Start: 67 @40600 has 49 MA's), (99, 40711), (128, 40867), (133, 40897),

Gene: Porcelain_105 Start: 59693, Stop: 60028, Start Num: 65
Candidate Starts for Porcelain_105:
(Start: 65 @59693 has 146 MA's), (Start: 90 @59762 has 1 MA's), (111, 59855), (133, 59993),

Gene: PrincessTrina_98 Start: 62782, Stop: 63165, Start Num: 47
Candidate Starts for PrincessTrina_98:
(Start: 47 @62782 has 19 MA's), (49, 62788), (Start: 70 @62833 has 4 MA's), (76, 62857), (82, 62872), (86, 62881), (95, 62926), (99, 62941), (102, 62953), (109, 62977), (111, 62986), (113, 63007), (120, 63040), (129, 63103),

Gene: Prithvi_54 Start: 38974, Stop: 39324, Start Num: 59
Candidate Starts for Prithvi_54:
(Start: 59 @38974 has 70 MA's), (Start: 64 @38980 has 20 MA's), (72, 39004), (83, 39034), (127, 39250),

Gene: Psycho_48 Start: 37150, Stop: 37488, Start Num: 65
Candidate Starts for Psycho_48:
(Start: 65 @37150 has 146 MA's), (83, 37201), (99, 37267), (118, 37351), (124, 37390), (126, 37405),

Gene: Pumpkin_68 Start: 44054, Stop: 44386, Start Num: 65

Candidate Starts for Pumpkin_68:
(Start: 65 @44054 has 146 MA's), (Start: 90 @44120 has 1 MA's), (95, 44150), (125, 44297), (133, 44351),

Gene: Quallification_66 Start: 44038, Stop: 44370, Start Num: 65
Candidate Starts for Quallification_66:
(Start: 65 @44038 has 146 MA's), (Start: 90 @44104 has 1 MA's), (95, 44134), (125, 44281), (133, 44335),

Gene: Quby_54 Start: 41023, Stop: 41370, Start Num: 67
Candidate Starts for Quby_54:
(Start: 67 @41023 has 49 MA's), (85, 41068), (128, 41299), (133, 41329), (136, 41344),

Gene: QuincyRose_52 Start: 39147, Stop: 39497, Start Num: 59
Candidate Starts for QuincyRose_52:
(Start: 59 @39147 has 70 MA's), (Start: 64 @39153 has 20 MA's), (72, 39177), (83, 39207), (89, 39225), (127, 39423),

Gene: Ramen_54 Start: 38773, Stop: 39123, Start Num: 59
Candidate Starts for Ramen_54:
(Start: 59 @38773 has 70 MA's), (Start: 64 @38779 has 20 MA's), (72, 38803), (83, 38833), (127, 39049),

Gene: Rando14_50 Start: 36149, Stop: 36487, Start Num: 65
Candidate Starts for Rando14_50:
(Start: 65 @36149 has 146 MA's), (77, 36185), (80, 36191), (111, 36311), (124, 36389), (127, 36413),

Gene: Rapunzel97_54 Start: 38769, Stop: 39119, Start Num: 59
Candidate Starts for Rapunzel97_54:
(Start: 59 @38769 has 70 MA's), (Start: 64 @38775 has 20 MA's), (72, 38799), (83, 38829), (127, 39045),

Gene: Red305_56 Start: 42639, Stop: 42980, Start Num: 65
Candidate Starts for Red305_56:
(Start: 65 @42639 has 146 MA's), (82, 42681), (116, 42825), (133, 42939),

Gene: Redno2_103 Start: 60400, Stop: 60735, Start Num: 65
Candidate Starts for Redno2_103:
(Start: 65 @60400 has 146 MA's), (Start: 90 @60469 has 1 MA's), (111, 60562), (133, 60700),

Gene: Richo_56 Start: 39469, Stop: 39807, Start Num: 62
Candidate Starts for Richo_56:
(Start: 62 @39469 has 26 MA's), (81, 39511), (83, 39517), (99, 39583), (135, 39781),

Gene: RickRoss_4 Start: 1342, Stop: 926, Start Num: 34
Candidate Starts for RickRoss_4:
(Start: 34 @1342 has 3 MA's), (49, 1297), (83, 1213), (86, 1207), (88, 1195), (92, 1180), (101, 1138), (110, 1102), (129, 982), (136, 940),

Gene: Rimmer_66 Start: 43746, Stop: 44078, Start Num: 65
Candidate Starts for Rimmer_66:
(Start: 65 @43746 has 146 MA's), (Start: 90 @43812 has 1 MA's), (95, 43842), (125, 43989), (133, 44043),

Gene: RiverMonster_65 Start: 43574, Stop: 43906, Start Num: 65
Candidate Starts for RiverMonster_65:
(14, 43304), (16, 43322), (24, 43430), (Start: 65 @43574 has 146 MA's), (Start: 90 @43640 has 1 MA's), (95, 43670), (125, 43817), (133, 43871),

Gene: Roberts_61 Start: 36010, Stop: 35534, Start Num: 23
Candidate Starts for Roberts_61:
(Start: 23 @36010 has 1 MA's), (30, 35959), (31, 35953), (Start: 39 @35929 has 7 MA's), (84, 35818), (86, 35815), (93, 35788), (104, 35737),

Gene: Rose5_54 Start: 40612, Stop: 40947, Start Num: 67
Candidate Starts for Rose5_54:
(Start: 67 @40612 has 49 MA's), (99, 40723), (128, 40879), (133, 40909),

Gene: RosiePosie_97 Start: 62647, Stop: 63030, Start Num: 47
Candidate Starts for RosiePosie_97:
(Start: 47 @62647 has 19 MA's), (49, 62653), (Start: 70 @62698 has 4 MA's), (76, 62722), (82, 62737), (86, 62746), (95, 62791), (99, 62806), (102, 62818), (109, 62842), (111, 62851), (113, 62872), (120, 62905), (129, 62968),

Gene: Rosmarinus_53 Start: 38874, Stop: 39224, Start Num: 59
Candidate Starts for Rosmarinus_53:
(Start: 59 @38874 has 70 MA's), (Start: 64 @38880 has 20 MA's), (72, 38904), (83, 38934), (127, 39150),

Gene: Rossetti_58 Start: 43025, Stop: 43360, Start Num: 67
Candidate Starts for Rossetti_58:
(Start: 67 @43025 has 49 MA's), (74, 43049), (82, 43064), (99, 43133), (121, 43235), (133, 43322), (135, 43334), (136, 43337),

Gene: Rumpelstiltskin_56 Start: 41872, Stop: 42207, Start Num: 67
Candidate Starts for Rumpelstiltskin_56:
(Start: 67 @41872 has 49 MA's), (74, 41896), (82, 41911), (99, 41980), (116, 42055), (121, 42082), (133, 42169), (135, 42181), (136, 42184),

Gene: RunningBrook_92 Start: 52270, Stop: 51923, Start Num: 62
Candidate Starts for RunningBrook_92:
(Start: 33 @52348 has 10 MA's), (Start: 62 @52270 has 26 MA's), (75, 52234), (80, 52222), (95, 52159), (99, 52144), (101, 52138), (123, 52042),

Gene: Samty_56 Start: 42647, Stop: 42988, Start Num: 65
Candidate Starts for Samty_56:
(Start: 65 @42647 has 146 MA's), (116, 42833), (133, 42947), (135, 42959),

Gene: SamuelLPlaqson_54 Start: 39665, Stop: 40015, Start Num: 60
Candidate Starts for SamuelLPlaqson_54:
(Start: 60 @39665 has 19 MA's), (Start: 64 @39671 has 20 MA's), (72, 39695), (83, 39725), (127, 39941),

Gene: Sarshaun_57 Start: 42539, Stop: 42874, Start Num: 67
Candidate Starts for Sarshaun_57:

(Start: 67 @42539 has 49 MA's), (74, 42563), (82, 42578), (99, 42647), (116, 42722), (121, 42749), (133, 42836), (135, 42848), (136, 42851),

Gene: Sassay_60 Start: 41671, Stop: 42003, Start Num: 65
Candidate Starts for Sassay_60:
(Start: 65 @41671 has 146 MA's), (Start: 90 @41737 has 1 MA's), (95, 41767), (125, 41914), (133, 41968),

Gene: Scarlett_57 Start: 39316, Stop: 39663, Start Num: 57
Candidate Starts for Scarlett_57:
(Start: 57 @39316 has 8 MA's), (72, 39346), (95, 39427), (124, 39565), (130, 39610), (135, 39637),

Gene: Scavito_98 Start: 62640, Stop: 63023, Start Num: 47
Candidate Starts for Scavito_98:
(Start: 47 @62640 has 19 MA's), (49, 62646), (Start: 70 @62691 has 4 MA's), (76, 62715), (82, 62730), (86, 62739), (95, 62784), (99, 62799), (102, 62811), (109, 62835), (111, 62844), (113, 62865), (120, 62898), (129, 62961),

Gene: Shaboozey_105 Start: 59531, Stop: 59866, Start Num: 65
Candidate Starts for Shaboozey_105:
(Start: 65 @59531 has 146 MA's), (Start: 90 @59600 has 1 MA's), (111, 59693), (133, 59831),

Gene: Shadow1_59 Start: 39359, Stop: 39703, Start Num: 65
Candidate Starts for Shadow1_59:
(4, 38927), (6, 38954), (8, 39011), (19, 39212), (Start: 65 @39359 has 146 MA's), (86, 39416), (135, 39677), (137, 39686),

Gene: Shaobing_56 Start: 39506, Stop: 39844, Start Num: 62
Candidate Starts for Shaobing_56:
(Start: 62 @39506 has 26 MA's), (81, 39548), (83, 39554), (99, 39620), (135, 39818),

Gene: Sheng711_55 Start: 41147, Stop: 41494, Start Num: 67
Candidate Starts for Sheng711_55:
(Start: 67 @41147 has 49 MA's), (85, 41192), (111, 41312), (128, 41423), (133, 41453), (136, 41468),

Gene: ShereKhan_64 Start: 43962, Stop: 44294, Start Num: 65
Candidate Starts for ShereKhan_64:
(Start: 65 @43962 has 146 MA's), (Start: 90 @44028 has 1 MA's), (95, 44058), (125, 44205), (133, 44259),

Gene: ShiaSurprise_54 Start: 39083, Stop: 39433, Start Num: 59
Candidate Starts for ShiaSurprise_54:
(Start: 59 @39083 has 70 MA's), (Start: 64 @39089 has 20 MA's), (72, 39113), (83, 39143), (127, 39359),

Gene: Shroomer_95 Start: 51510, Stop: 51163, Start Num: 62
Candidate Starts for Shroomer_95:
(Start: 33 @51588 has 10 MA's), (Start: 62 @51510 has 26 MA's), (75, 51474), (80, 51462), (95, 51399), (99, 51384), (101, 51378), (123, 51282),

Gene: SirDuracell_64 Start: 42245, Stop: 42577, Start Num: 65
Candidate Starts for SirDuracell_64:

(Start: 65 @42245 has 146 MA's), (Start: 90 @42311 has 1 MA's), (95, 42341), (125, 42488), (133, 42542),

Gene: Slimphazie_53 Start: 38769, Stop: 39119, Start Num: 59
Candidate Starts for Slimphazie_53:
(Start: 59 @38769 has 70 MA's), (Start: 64 @38775 has 20 MA's), (72, 38799), (83, 38829), (127, 39045),

Gene: Smoothie_10 Start: 2375, Stop: 2713, Start Num: 63
Candidate Starts for Smoothie_10:
(Start: 63 @2375 has 14 MA's), (Start: 90 @2444 has 1 MA's), (131, 2663),

Gene: Smoothie_75 Start: 48607, Stop: 49053, Start Num: 33
Candidate Starts for Smoothie_75:
(17, 48487), (Start: 33 @48607 has 10 MA's), (49, 48658), (53, 48667), (71, 48706), (106, 48835), (117, 48901), (118, 48904), (122, 48925), (136, 49021), (139, 49039),

Gene: Snenia_55 Start: 42640, Stop: 42981, Start Num: 65
Candidate Starts for Snenia_55:
(Start: 65 @42640 has 146 MA's), (82, 42682), (116, 42826), (133, 42940),

Gene: SoJulia_59 Start: 42708, Stop: 43043, Start Num: 67
Candidate Starts for SoJulia_59:
(Start: 67 @42708 has 49 MA's), (74, 42732), (82, 42747), (99, 42816), (116, 42891), (121, 42918), (133, 43005), (135, 43017), (136, 43020),

Gene: SoSeph_48 Start: 38138, Stop: 38476, Start Num: 65
Candidate Starts for SoSeph_48:
(2, 37655), (7, 37781), (Start: 65 @38138 has 146 MA's), (111, 38300), (124, 38378), (126, 38393), (127, 38402), (132, 38432),

Gene: Soap141_57 Start: 42539, Stop: 42874, Start Num: 67
Candidate Starts for Soap141_57:
(Start: 67 @42539 has 49 MA's), (74, 42563), (82, 42578), (99, 42647), (116, 42722), (121, 42749), (133, 42836), (135, 42848), (136, 42851),

Gene: Soondubu_27 Start: 24626, Stop: 24961, Start Num: 62
Candidate Starts for Soondubu_27:
(18, 24452), (Start: 62 @24626 has 26 MA's), (133, 24920),

Gene: Sotrice96_66 Start: 43652, Stop: 43984, Start Num: 65
Candidate Starts for Sotrice96_66:
(Start: 65 @43652 has 146 MA's), (Start: 90 @43718 has 1 MA's), (95, 43748), (125, 43895), (133, 43949),

Gene: Spock_53 Start: 38887, Stop: 39237, Start Num: 59
Candidate Starts for Spock_53:
(Start: 59 @38887 has 70 MA's), (Start: 64 @38893 has 20 MA's), (72, 38917), (83, 38947), (127, 39163),

Gene: Squint_105 Start: 59815, Stop: 60150, Start Num: 65
Candidate Starts for Squint_105:
(Start: 65 @59815 has 146 MA's), (Start: 90 @59884 has 1 MA's), (111, 59977), (133, 60115),

Gene: Stark_66 Start: 43460, Stop: 43792, Start Num: 65
Candidate Starts for Stark_66:
(Start: 65 @43460 has 146 MA's), (Start: 90 @43526 has 1 MA's), (95, 43556), (125, 43703), (133, 43757),

Gene: SteakFry_93 Start: 51568, Stop: 51221, Start Num: 62
Candidate Starts for SteakFry_93:
(Start: 33 @51646 has 10 MA's), (Start: 62 @51568 has 26 MA's), (75, 51532), (80, 51520), (95, 51457), (99, 51442), (101, 51436), (113, 51391), (115, 51385),

Gene: StevieWelch_91 Start: 51363, Stop: 51016, Start Num: 62
Candidate Starts for StevieWelch_91:
(Start: 62 @51363 has 26 MA's), (80, 51315), (95, 51252), (99, 51237), (101, 51231), (123, 51135),

Gene: Stinson_54 Start: 39274, Stop: 39624, Start Num: 60
Candidate Starts for Stinson_54:
(Start: 60 @39274 has 19 MA's), (Start: 64 @39280 has 20 MA's), (72, 39304), (83, 39334), (127, 39550), (134, 39595),

Gene: StolenFromERC_68 Start: 43689, Stop: 44021, Start Num: 65
Candidate Starts for StolenFromERC_68:
(Start: 65 @43689 has 146 MA's), (Start: 90 @43755 has 1 MA's), (95, 43785), (125, 43932), (133, 43986),

Gene: StormChicken_67 Start: 44353, Stop: 44685, Start Num: 65
Candidate Starts for StormChicken_67:
(14, 44083), (16, 44101), (24, 44209), (Start: 65 @44353 has 146 MA's), (Start: 90 @44419 has 1 MA's), (95, 44449), (125, 44596), (133, 44650),

Gene: Studio_62 Start: 37119, Stop: 36724, Start Num: 39
Candidate Starts for Studio_62:
(Start: 39 @37119 has 7 MA's), (75, 37032), (83, 37011), (84, 37008), (86, 37005), (93, 36978), (98, 36948),

Gene: Sulley_53 Start: 38933, Stop: 39283, Start Num: 60
Candidate Starts for Sulley_53:
(Start: 60 @38933 has 19 MA's), (Start: 64 @38939 has 20 MA's), (72, 38963), (83, 38993), (127, 39209),

Gene: Sunflower1121_60 Start: 39505, Stop: 39849, Start Num: 65
Candidate Starts for Sunflower1121_60:
(4, 39073), (6, 39100), (8, 39157), (19, 39358), (Start: 65 @39505 has 146 MA's), (86, 39562), (135, 39823), (137, 39832),

Gene: Superphikiman_104 Start: 58906, Stop: 59241, Start Num: 65
Candidate Starts for Superphikiman_104:
(Start: 65 @58906 has 146 MA's), (Start: 90 @58975 has 1 MA's), (111, 59068), (133, 59206),

Gene: Survivors_57 Start: 41802, Stop: 42128, Start Num: 67
Candidate Starts for Survivors_57:
(10, 41481), (11, 41493), (Start: 67 @41802 has 49 MA's), (76, 41829), (86, 41853), (Start: 90 @41871 has 1 MA's), (103, 41931), (116, 41988), (135, 42111), (137, 42120),

Gene: SussRoloMann_57 Start: 38831, Stop: 39163, Start Num: 64
Candidate Starts for SussRoloMann_57:
(40, 38768), (48, 38795), (Start: 64 @38831 has 20 MA's), (76, 38864), (84, 38885), (95, 38936), (111, 38996),

Gene: Syra333_59 Start: 39526, Stop: 39870, Start Num: 65
Candidate Starts for Syra333_59:
(Start: 65 @39526 has 146 MA's), (135, 39844), (137, 39853),

Gene: TClif_56 Start: 39191, Stop: 39532, Start Num: 65
Candidate Starts for TClif_56:
(Start: 65 @39191 has 146 MA's), (76, 39224), (86, 39248), (133, 39497), (135, 39509),

Gene: TMaxx_63 Start: 37726, Stop: 37325, Start Num: 39
Candidate Starts for TMaxx_63:
(9, 37999), (Start: 39 @37726 has 7 MA's), (116, 37471), (124, 37417),

Gene: Tachez_53 Start: 38731, Stop: 39081, Start Num: 59
Candidate Starts for Tachez_53:
(Start: 59 @38731 has 70 MA's), (Start: 64 @38737 has 20 MA's), (72, 38761), (83, 38791), (127, 39007),

Gene: TaiwanKao_55 Start: 39036, Stop: 39386, Start Num: 59
Candidate Starts for TaiwanKao_55:
(Start: 59 @39036 has 70 MA's), (Start: 64 @39042 has 20 MA's), (72, 39066), (118, 39246), (127, 39312),

Gene: Taotie_49 Start: 33060, Stop: 32710, Start Num: 70
Candidate Starts for Taotie_49:
(Start: 70 @33060 has 4 MA's), (Start: 90 @32994 has 1 MA's), (127, 32793), (133, 32757),

Gene: TeamEdward_67 Start: 44350, Stop: 44682, Start Num: 65
Candidate Starts for TeamEdward_67:
(14, 44080), (16, 44098), (24, 44206), (Start: 65 @44350 has 146 MA's), (Start: 90 @44416 has 1 MA's), (95, 44446), (125, 44593), (133, 44647),

Gene: Terminus_68 Start: 44426, Stop: 44758, Start Num: 65
Candidate Starts for Terminus_68:
(14, 44156), (16, 44174), (24, 44282), (Start: 65 @44426 has 146 MA's), (Start: 90 @44492 has 1 MA's), (95, 44522), (125, 44669), (133, 44723),

Gene: Theia_42 Start: 34792, Stop: 34463, Start Num: 70
Candidate Starts for Theia_42:
(Start: 70 @34792 has 4 MA's), (Start: 90 @34726 has 1 MA's), (102, 34672), (110, 34645), (113, 34621), (115, 34615), (137, 34480),

Gene: Thimble_66 Start: 42871, Stop: 43203, Start Num: 65
Candidate Starts for Thimble_66:
(Start: 65 @42871 has 146 MA's), (Start: 90 @42937 has 1 MA's), (95, 42967), (125, 43114), (133, 43168),

Gene: ThursdayNight_28 Start: 22105, Stop: 22434, Start Num: 62

Candidate Starts for ThursdayNight_28:
(Start: 62 @22105 has 26 MA's), (113, 22270), (133, 22393),

Gene: Thyatira_51 Start: 40300, Stop: 40638, Start Num: 65
Candidate Starts for Thyatira_51:
(Start: 65 @40300 has 146 MA's), (111, 40462), (124, 40540), (126, 40555), (127, 40564), (132, 40594),

Gene: Tierra_57 Start: 39327, Stop: 39674, Start Num: 65
Candidate Starts for Tierra_57:
(Start: 65 @39327 has 146 MA's), (86, 39384), (135, 39645), (137, 39654),

Gene: Tigress9_59 Start: 39517, Stop: 39858, Start Num: 65
Candidate Starts for Tigress9_59:
(Start: 65 @39517 has 146 MA's), (86, 39574), (135, 39835),

Gene: TiniBug_54 Start: 39661, Stop: 40011, Start Num: 60
Candidate Starts for TiniBug_54:
(Start: 60 @39661 has 19 MA's), (Start: 64 @39667 has 20 MA's), (72, 39691), (83, 39721), (127, 39937),

Gene: Tiri_54 Start: 39061, Stop: 39411, Start Num: 59
Candidate Starts for Tiri_54:
(Start: 59 @39061 has 70 MA's), (Start: 64 @39067 has 20 MA's), (72, 39091), (83, 39121), (127, 39337),

Gene: Tomaszewski_60 Start: 42805, Stop: 43137, Start Num: 65
Candidate Starts for Tomaszewski_60:
(Start: 65 @42805 has 146 MA's), (Start: 90 @42871 has 1 MA's), (95, 42901), (125, 43048), (133, 43102),

Gene: Toniann_10 Start: 2375, Stop: 2713, Start Num: 63
Candidate Starts for Toniann_10:
(Start: 63 @2375 has 14 MA's), (Start: 90 @2444 has 1 MA's), (131, 2663),

Gene: Toniann_74 Start: 47959, Stop: 48405, Start Num: 33
Candidate Starts for Toniann_74:
(17, 47839), (Start: 33 @47959 has 10 MA's), (49, 48010), (53, 48019), (71, 48058), (106, 48187), (117, 48253), (118, 48256), (122, 48277), (136, 48373), (139, 48391),

Gene: Tophat_98 Start: 62829, Stop: 63212, Start Num: 47
Candidate Starts for Tophat_98:
(Start: 47 @62829 has 19 MA's), (49, 62835), (Start: 70 @62880 has 4 MA's), (76, 62904), (82, 62919), (86, 62928), (95, 62973), (99, 62988), (102, 63000), (109, 63024), (111, 63033), (113, 63054), (120, 63087), (129, 63150),

Gene: Topper_53 Start: 38886, Stop: 39236, Start Num: 59
Candidate Starts for Topper_53:
(Start: 59 @38886 has 70 MA's), (Start: 64 @38892 has 20 MA's), (72, 38916), (83, 38946), (127, 39162),

Gene: Tourach_56 Start: 42528, Stop: 42863, Start Num: 67
Candidate Starts for Tourach_56:

(Start: 67 @42528 has 49 MA's), (74, 42552), (99, 42636), (116, 42711), (121, 42738), (128, 42795), (133, 42825), (135, 42837), (136, 42840),

Gene: Trax_72 Start: 45288, Stop: 45629, Start Num: 64
Candidate Starts for Trax_72:
(Start: 64 @45288 has 20 MA's), (72, 45309), (74, 45315), (Start: 90 @45357 has 1 MA's), (94, 45384), (113, 45465), (116, 45474), (124, 45525), (138, 45615),

Gene: TreyKay_54 Start: 38974, Stop: 39324, Start Num: 59
Candidate Starts for TreyKay_54:
(Start: 59 @38974 has 70 MA's), (Start: 64 @38980 has 20 MA's), (72, 39004), (83, 39034), (127, 39250),

Gene: TriFive_57 Start: 42639, Stop: 42980, Start Num: 65
Candidate Starts for TriFive_57:
(Start: 65 @42639 has 146 MA's), (82, 42681), (116, 42825), (133, 42939),

Gene: TribleTrouble_52 Start: 38960, Stop: 39298, Start Num: 68
Candidate Starts for TribleTrouble_52:
(Start: 68 @38960 has 2 MA's), (75, 38984), (79, 38993), (89, 39020), (102, 39080), (133, 39263), (135, 39275), (136, 39278),

Gene: TripleC_60 Start: 38749, Stop: 38360, Start Num: 39
Candidate Starts for TripleC_60:
(Start: 39 @38749 has 7 MA's), (79, 38659), (116, 38503), (136, 38374), (137, 38368),

Gene: TruffulaTree_53 Start: 38765, Stop: 39115, Start Num: 59
Candidate Starts for TruffulaTree_53:
(Start: 59 @38765 has 70 MA's), (Start: 64 @38771 has 20 MA's), (72, 38795), (83, 38825), (127, 39041),

Gene: Twitch_53 Start: 38888, Stop: 39238, Start Num: 59
Candidate Starts for Twitch_53:
(Start: 59 @38888 has 70 MA's), (Start: 64 @38894 has 20 MA's), (72, 38918), (83, 38948), (127, 39164),

Gene: Tyson_54 Start: 40614, Stop: 40952, Start Num: 67
Candidate Starts for Tyson_54:
(Start: 67 @40614 has 49 MA's), (99, 40725), (128, 40884), (133, 40914),

Gene: Unicorn_55 Start: 38455, Stop: 38796, Start Num: 65
Candidate Starts for Unicorn_55:
(Start: 65 @38455 has 146 MA's), (86, 38512), (135, 38773),

Gene: Urkel_54 Start: 39665, Stop: 40015, Start Num: 60
Candidate Starts for Urkel_54:
(Start: 60 @39665 has 19 MA's), (Start: 64 @39671 has 20 MA's), (72, 39695), (83, 39725), (127, 39941),

Gene: Validus_58 Start: 39687, Stop: 40025, Start Num: 62
Candidate Starts for Validus_58:
(Start: 62 @39687 has 26 MA's), (76, 39717), (81, 39729), (83, 39735), (99, 39801), (118, 39885), (135, 39999), (136, 40002),

Gene: Veliki_54 Start: 38751, Stop: 39101, Start Num: 59
Candidate Starts for Veliki_54:
(Start: 59 @38751 has 70 MA's), (Start: 64 @38757 has 20 MA's), (72, 38781), (83, 38811), (127, 39027),

Gene: Vetrix_57 Start: 42483, Stop: 42818, Start Num: 67
Candidate Starts for Vetrix_57:
(Start: 67 @42483 has 49 MA's), (74, 42507), (82, 42522), (99, 42591), (116, 42666), (121, 42693), (133, 42780), (135, 42792), (136, 42795),

Gene: ViviJ_48 Start: 36833, Stop: 37174, Start Num: 65
Candidate Starts for ViviJ_48:
(32, 36749), (Start: 65 @36833 has 146 MA's), (77, 36869), (99, 36950), (107, 36977), (111, 36995), (118, 37034), (130, 37118),

Gene: Wallaby_58 Start: 41903, Stop: 42241, Start Num: 67
Candidate Starts for Wallaby_58:
(10, 41582), (11, 41594), (Start: 67 @41903 has 49 MA's), (76, 41930), (86, 41954), (Start: 90 @41972 has 1 MA's), (116, 42092), (123, 42131), (137, 42224),

Gene: Waterfoul_49 Start: 38200, Stop: 38538, Start Num: 65
Candidate Starts for Waterfoul_49:
(2, 37717), (7, 37843), (Start: 65 @38200 has 146 MA's), (111, 38362), (124, 38440), (126, 38455), (127, 38464), (132, 38494),

Gene: Welcome_92 Start: 51722, Stop: 51375, Start Num: 62
Candidate Starts for Welcome_92:
(Start: 33 @51800 has 10 MA's), (Start: 62 @51722 has 26 MA's), (75, 51686), (80, 51674), (95, 51611), (99, 51596), (101, 51590), (113, 51545), (115, 51539),

Gene: WheatThin_56 Start: 38819, Stop: 39151, Start Num: 64
Candidate Starts for WheatThin_56:
(40, 38756), (48, 38783), (Start: 64 @38819 has 20 MA's), (76, 38852), (84, 38873), (95, 38924), (111, 38984),

Gene: WheeHeim_4 Start: 1388, Stop: 981, Start Num: 34
Candidate Starts for WheeHeim_4:
(22, 1457), (Start: 34 @1388 has 3 MA's), (86, 1262), (91, 1241), (92, 1235), (97, 1208), (110, 1157), (128, 1040), (129, 1037),

Gene: Whirlwind_56 Start: 42457, Stop: 42798, Start Num: 65
Candidate Starts for Whirlwind_56:
(Start: 65 @42457 has 146 MA's), (82, 42499), (116, 42643), (133, 42757), (135, 42769),

Gene: Wigglewiggle_57 Start: 42503, Stop: 42838, Start Num: 67
Candidate Starts for Wigglewiggle_57:
(Start: 67 @42503 has 49 MA's), (74, 42527), (82, 42542), (99, 42611), (116, 42686), (121, 42713), (133, 42800), (135, 42812), (136, 42815),

Gene: Wilder_58 Start: 42449, Stop: 42784, Start Num: 67
Candidate Starts for Wilder_58:

(Start: 67 @42449 has 49 MA's), (74, 42473), (82, 42488), (99, 42557), (116, 42632), (121, 42659), (133, 42746), (135, 42758), (136, 42761),

Gene: Willez_60 Start: 41671, Stop: 42003, Start Num: 65
Candidate Starts for Willez_60:
(Start: 65 @41671 has 146 MA's), (Start: 90 @41737 has 1 MA's), (95, 41767), (125, 41914), (133, 41968),

Gene: WilliamBoone_9 Start: 2227, Stop: 2568, Start Num: 63
Candidate Starts for WilliamBoone_9:
(Start: 63 @2227 has 14 MA's), (Start: 90 @2299 has 1 MA's), (131, 2518),

Gene: Winky_57 Start: 42443, Stop: 42778, Start Num: 67
Candidate Starts for Winky_57:
(Start: 67 @42443 has 49 MA's), (74, 42467), (82, 42482), (99, 42551), (116, 42626), (121, 42653), (133, 42740), (135, 42752), (136, 42755),

Gene: Wolfwood_56 Start: 41877, Stop: 42215, Start Num: 67
Candidate Starts for Wolfwood_56:
(10, 41556), (11, 41568), (Start: 67 @41877 has 49 MA's), (76, 41904), (86, 41928), (Start: 90 @41946 has 1 MA's), (116, 42066), (123, 42105), (137, 42198),

Gene: Wyatt2_55 Start: 40612, Stop: 40947, Start Num: 67
Candidate Starts for Wyatt2_55:
(Start: 67 @40612 has 49 MA's), (99, 40723), (128, 40879), (133, 40909),

Gene: Ximenita_60 Start: 39523, Stop: 39867, Start Num: 65
Candidate Starts for Ximenita_60:
(Start: 65 @39523 has 146 MA's), (86, 39580), (135, 39841), (137, 39850),

Gene: YassJohnny_62 Start: 42844, Stop: 43176, Start Num: 65
Candidate Starts for YassJohnny_62:
(14, 42574), (16, 42592), (24, 42700), (Start: 65 @42844 has 146 MA's), (Start: 90 @42910 has 1 MA's), (95, 42940), (125, 43087), (133, 43141),

Gene: Youngblood_68 Start: 44356, Stop: 44688, Start Num: 65
Candidate Starts for Youngblood_68:
(14, 44086), (16, 44104), (24, 44212), (Start: 65 @44356 has 146 MA's), (Start: 90 @44422 has 1 MA's), (95, 44452), (125, 44599), (133, 44653),

Gene: YoureAdopted_52 Start: 38889, Stop: 39239, Start Num: 59
Candidate Starts for YoureAdopted_52:
(Start: 59 @38889 has 70 MA's), (Start: 64 @38895 has 20 MA's), (72, 38919), (83, 38949), (127, 39165),

Gene: Yuma_89 Start: 51231, Stop: 50884, Start Num: 62
Candidate Starts for Yuma_89:
(Start: 33 @51309 has 10 MA's), (Start: 62 @51231 has 26 MA's), (75, 51195), (80, 51183), (95, 51120), (99, 51105), (101, 51099), (123, 51003),

Gene: Yuna_59 Start: 40160, Stop: 40498, Start Num: 64
Candidate Starts for Yuna_59:
(Start: 64 @40160 has 20 MA's), (76, 40196), (95, 40259), (135, 40472),

Gene: Yunkel11_55 Start: 38357, Stop: 38704, Start Num: 59
Candidate Starts for Yunkel11_55:
(Start: 59 @38357 has 70 MA's), (Start: 64 @38363 has 20 MA's), (72, 38387), (83, 38417), (123, 38597), (127, 38633),

Gene: Zabiza_48 Start: 35076, Stop: 35426, Start Num: 59
Candidate Starts for Zabiza_48:
(Start: 59 @35076 has 70 MA's), (Start: 64 @35082 has 20 MA's), (72, 35106), (83, 35136), (127, 35352),

Gene: Zakai_58 Start: 42769, Stop: 43104, Start Num: 67
Candidate Starts for Zakai_58:
(Start: 67 @42769 has 49 MA's), (74, 42793), (82, 42808), (99, 42877), (116, 42952), (121, 42979), (133, 43066), (135, 43078), (136, 43081),

Gene: Zareef_57 Start: 41900, Stop: 42238, Start Num: 67
Candidate Starts for Zareef_57:
(10, 41579), (11, 41591), (Start: 67 @41900 has 49 MA's), (76, 41927), (86, 41951), (Start: 90 @41969 has 1 MA's), (116, 42089), (123, 42128), (137, 42221),

Gene: Zavala_55 Start: 39050, Stop: 39400, Start Num: 59
Candidate Starts for Zavala_55:
(Start: 59 @39050 has 70 MA's), (Start: 64 @39056 has 20 MA's), (72, 39080), (83, 39110), (127, 39326),

Gene: ZhongYanYuan_55 Start: 42338, Stop: 42673, Start Num: 67
Candidate Starts for ZhongYanYuan_55:
(Start: 67 @42338 has 49 MA's), (74, 42362), (82, 42377), (99, 42446), (116, 42521), (121, 42548), (133, 42635), (135, 42647), (136, 42650),

Gene: Zooman_297 Start: 168299, Stop: 168673, Start Num: 46
Candidate Starts for Zooman_297:
(Start: 46 @168299 has 2 MA's), (111, 168473), (113, 168494), (116, 168503), (123, 168545), (132, 168611),