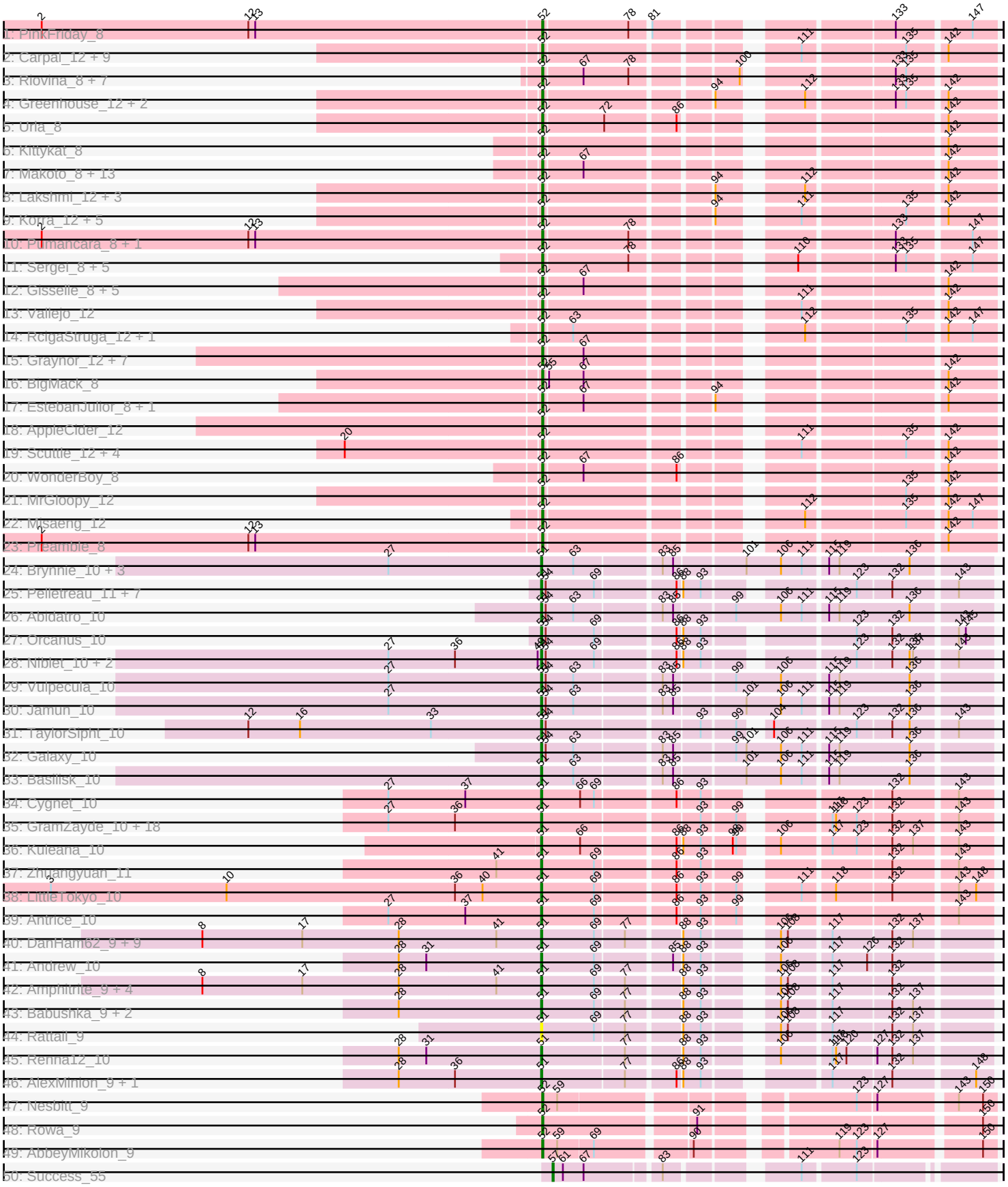
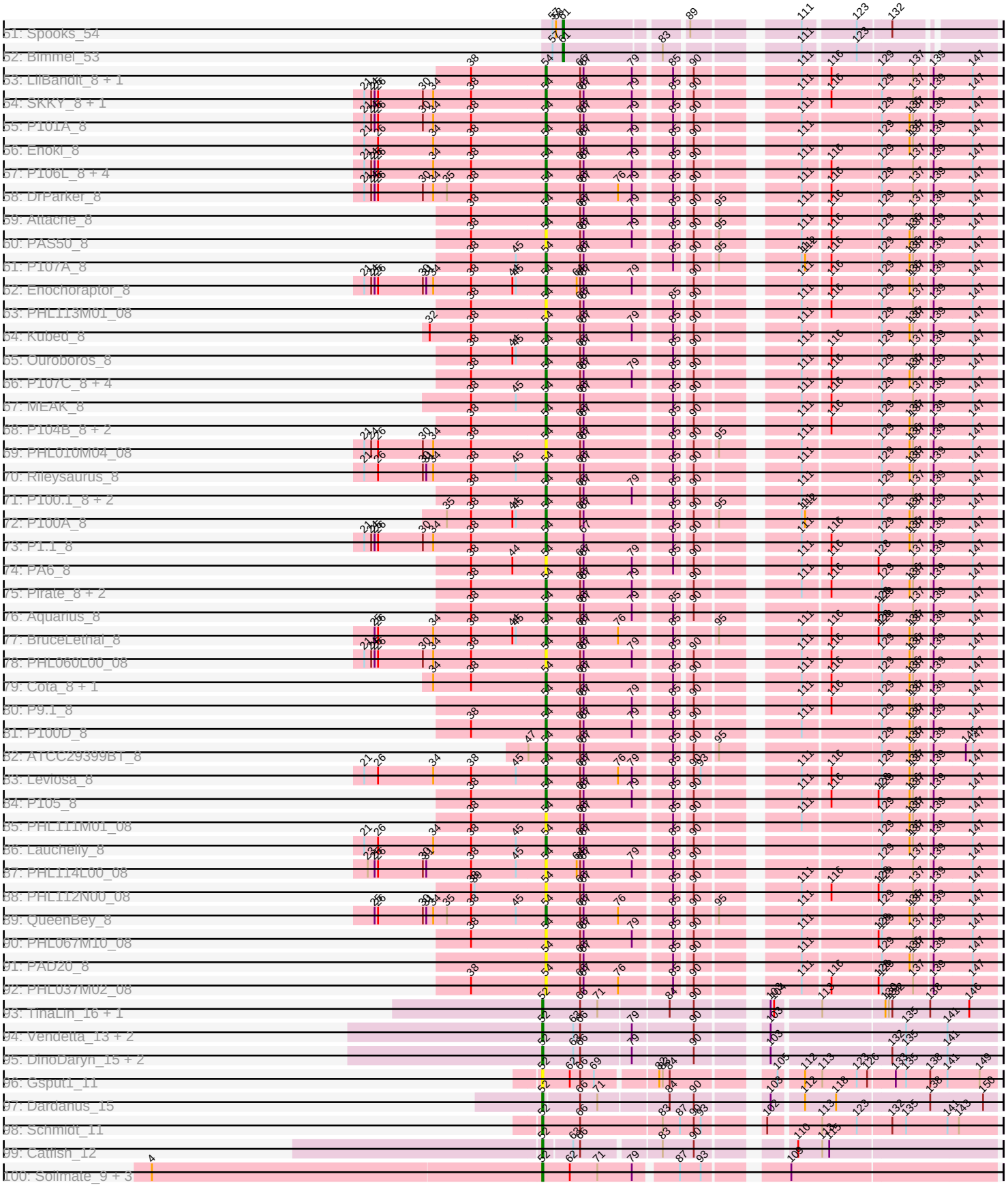
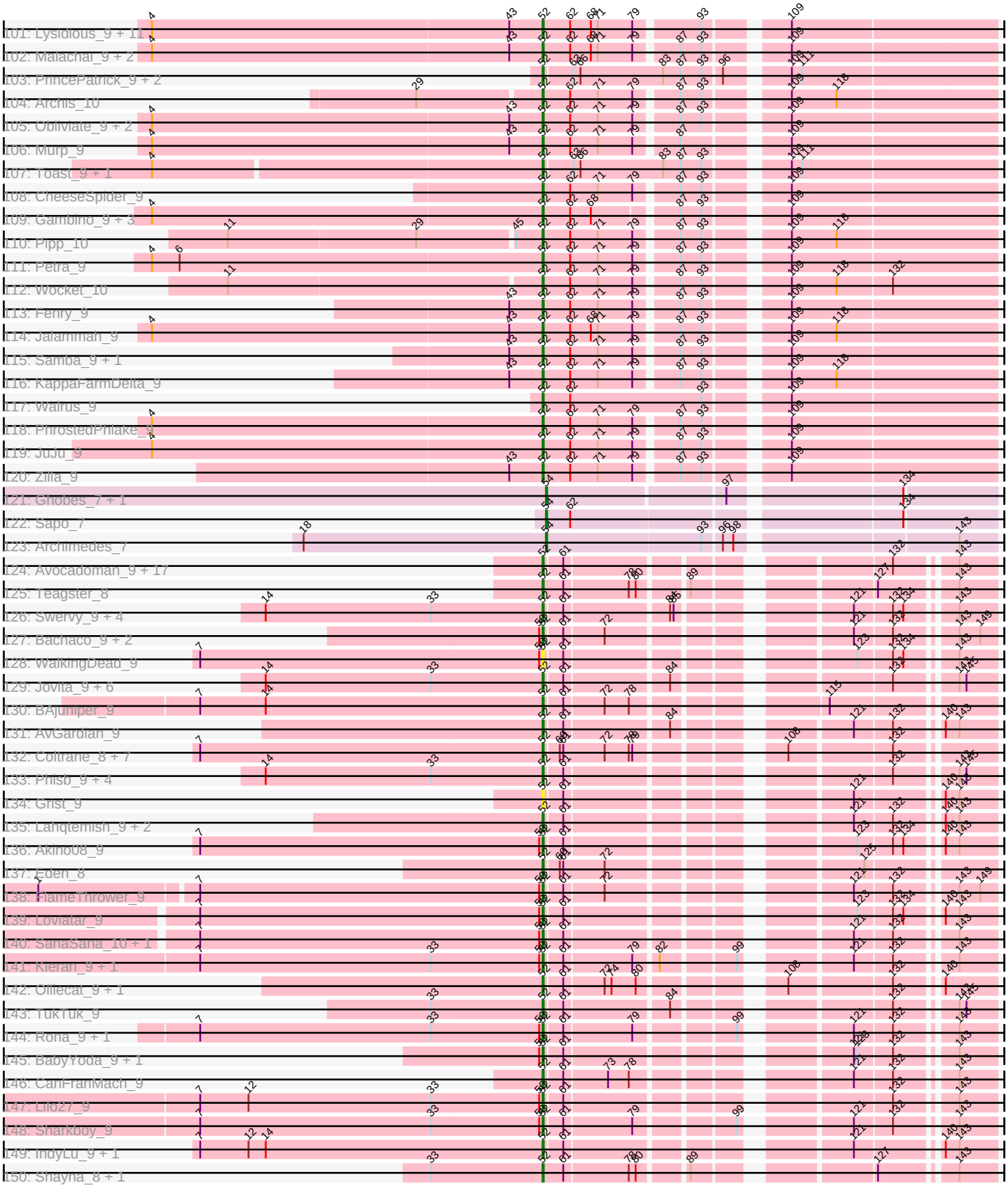
Pham 347117


1: PinkFriday_8
2: Carpal_12 + 9
3: Riovina_8 + 7
4: Greenhouse_12 + 2
5: Ona_8
6: Kittykat_8
7: Makoto_8 + 13
8: Lakshmi_12 + 3
9: Kovra_12 + 5
10: Pumancara_8 + 1
11: Sergei_8 + 5
12: Gisselle_8 + 5
13: Vallejo_12
14: RcigaStruga_12 + 1
15: Graynor_12 + 7
16: BigMack_8
17: EstebanJulior_8 + 1
18: AppleCider_12
19: Scuttle_12 + 4
20: WonderBoy_8
21: MrGloopy_12
22: Misaeng_12
23: Preamble_8
24: Brynnie_10 + 3
25: Pelletreau_11 + 7
26: Abidatro_10
27: Orcanus_10
28: Niblet_10 + 2
29: Vulpecula_10
30: Jamun_10
31: TaylorSpht_10
32: Galaxy_10
33: Basilisk_10
34: Cygnet_10
35: GramZayde_10 + 18
36: Kuleana_10
37: Zhuangyuan_11
38: LittleTokyo_10
39: Antrice_10
40: DanHam62_9 + 9
41: Andrew_10
42: Amphitrite_9 + 4
43: Babushka_9 + 2
44: Rattail_9
45: Renna12_10
46: AlexMinion_9 + 1
47: Nesbitt_9
48: Rowa_9
49: AbbeyMikolon_9
50: Success_55

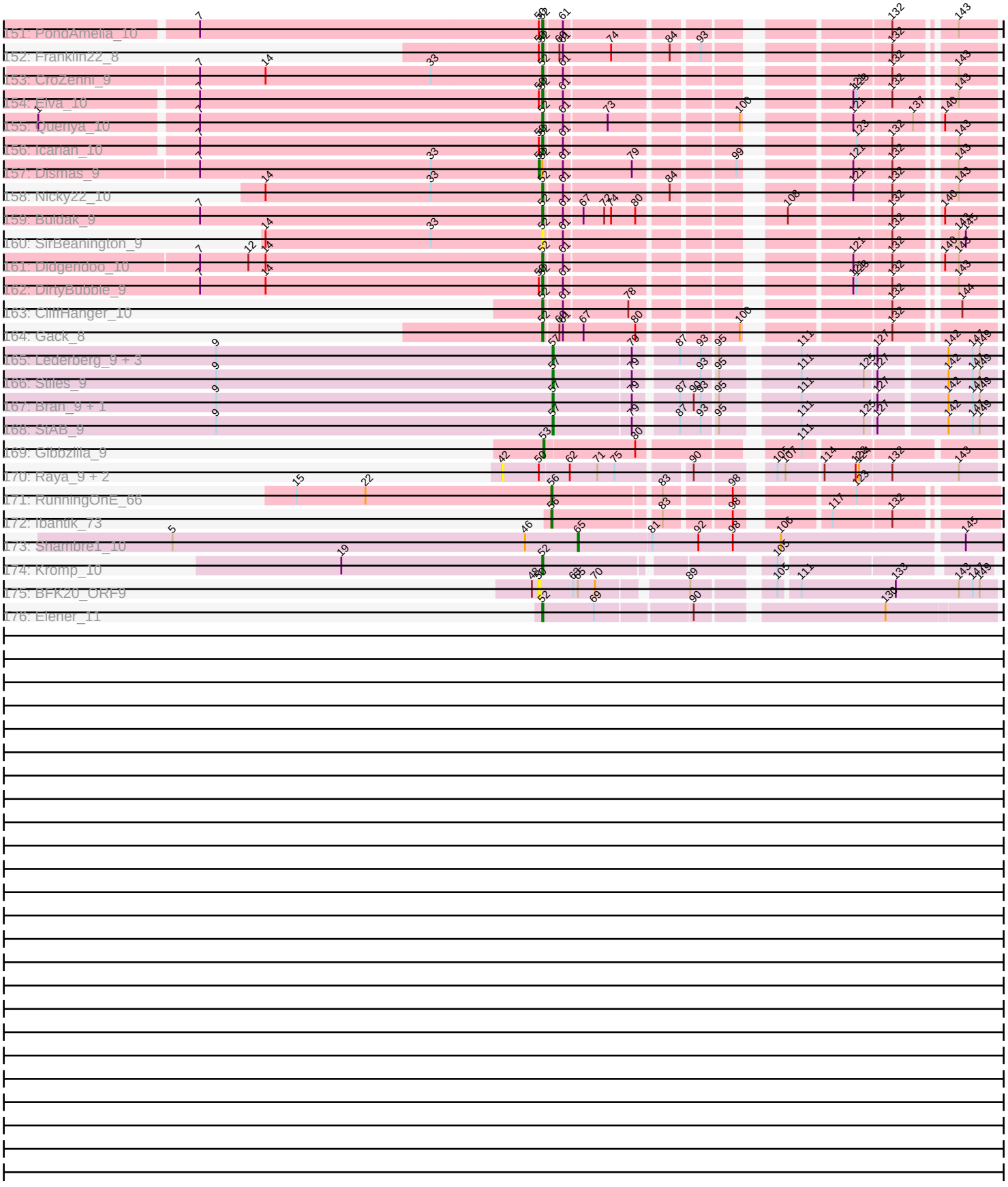
Pham 347117


51: Spooks_54
52: Bimmel_53
53: LilBandit_8 + 1
54: SKKY_8 + 1
55: P101A_8
56: Enoki_8
57: P106L_8 + 4
58: DrParker_8
59: Attache_8
60: PAS50_8
61: P107A_8
62: Enochoraptor_8
63: PHL113M01_08
64: Kubed_8
65: Ouroboros_8
66: P107C_8 + 4
67: MEAK_8
68: P104B_8 + 2
69: PHL010M04_08
70: Rileysaurus_8
71: P100.1_8 + 2
72: P100A_8
73: P1.1_8
74: PA6_8
75: Pirate_8 + 2
76: Aquarius_8
77: BruceLethal_8
78: PHL060L00_08
79: Cota_8 + 1
80: P9.1_8
81: P100D_8
82: ATCC29399BT_8
83: Leviosa_8
84: P105_8
85: PHL111M01_08
86: Lauchelly_8
87: PHL114L00_08
88: PHL112N00_08
89: QueenBey_8
90: PHL067M10_08
91: PAD20_8
92: PHL037M02_08
93: TinaLin_16 + 1
94: Vendetta_13 + 2
95: DinoDaryn_15 + 2
96: Gsputi_11
97: Dardanus_15
98: Schmidt_11
99: Catfish_12
100: Solimate_9 + 3

Pham 347117



Pham 347117


151: PondAmelia_10
152: Franklin22_8
153: CroZenni_9
154: Elva_10
155: Quenya_10
156: Icarian_10
157: Dismas_9
158: Nicky22_10
159: Buldak_9
160: SirBeanington_9
161: Didgeridoo_10
162: DirtyBubble_9
163: CliffHanger_10
164: Gack_8
165: Lederberg_9 + 3
166: Stiles_9
167: Bran_9 + 1
168: StAB_9
169: Globzilla_9
170: Raya_9 + 2
171: RunningOnE_66
172: Ibantik_73
173: Shambre1_10
174: Kromp_10
175: BFK20_ORF9
176: Elener_11

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 347117 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 347117 has 388 members, 37 are drafts.

Phages represented in each track:
• Track 1 : PinkFriday_8
• Track 2 : Carpal_12, Cholula_12, Glenn_12, Fluke_12, TattModd_12, Rozby_12, Riverdale_12, Potatoes_12, Immaculata_12, Beethoven_12
• Track 3 : Riovina_8, Eunoia_8, HunterDalle_8, Aledel_8, AustinPowers_8, Vulture_8, OMalley_8, Chridison_8
• Track 4 : Greenhouse_12, Nubia_12, Joann_12
• Track 5 : Urla_8
• Track 6 : Kittykat_8
• Track 7 : Makoto_8, Pterodactyl_8, ChewChew_8, Bodacious_8, DrRobert_8, Lennox_8, Nancia_8, Christian_8, Lucy_8, PitaDog_8, Lasagna_8, OurGirlNessie_8, CristinaYang_8, LilStuart_8
• Track 8 : Lakshmi_12, Oxynfrius_12, GreenHearts_12, Albanese_12
• Track 9 : Korra_12, Kalizoi_12, Wawa_12, BrotherBLo_12, Zorro_12, Dino_12
• Track 10 : Pumancara_8, Supakev_8
• Track 11 : Sergei_8, Maria1952_8, Temper16_8, Daiboju_8, KingBob_8, Herb_8
• Track 12 : Gisselle_8, Moki_8, Huckleberry_8, DreamTeam_8, Bennie_8, HeadNerd_8
• Track 13 : Vallejo_12
• Track 14 : RcigaStruga_12, Huntingdon_12
• Track 15 : Graynor_12, CallieOMalley_12, Wayne_12, Litotes_12, PartyCup_12, MrBoss_12, Suppi_12, Canowicakte_12
• Track 16 : BigMack_8
• Track 17 : EstebanJulior_8, MamaPearl_8
• Track 18 : AppleCider_12
• Track 19 : Scuttle_12, Jumboset_12, MeganNoll_12, Savage2526_12, RAP15_12
• Track 20 : WonderBoy_8
• Track 21 : MrGloopy_12
• Track 22 : Misaeng_12
• Track 23 : Preamble_8
• Track 24 : Brynnie_10, Chickaboom_9, WileyE_9, Ruchi_10
• Track 25 : Pelletreau_11, Toad24_11, Shen_11, Amanises_11, Eesa_10, KendraB23_11, Westrich_11, Gravel_11
• Track 26 : Abidatro_10

• Track 27 : Orcanus_10
• Track 28 : Niblet_10, Chicken_10, Zixiang_10
• Track 29 : Vulpecula_10
• Track 30 : Jamun_10
• Track 31 : TaylorSipht_10
• Track 32 : Galaxy_10
• Track 33 : Basilisk_10
• Track 34 : Cygnet_10
• Track 35 : GramZayde_10, OtsoOtso_10, Pineda_11, Bibble12_11, Jerole_11, Polka_10, Daob_11, Coral_10, Colusalem_10, Melons_11, BadWillHunting_11, Bedetta_11, Damocles_11, PhirstandPhine_11, Kepler_10, HannahPhantana_11, Amelia_11, Cote_11, Lunar_11
• Track 36 : Kuleana_10
• Track 37 : Zhuangyuan_11
• Track 38 : LittleTokyo_10
• Track 39 : Antrice_10
• Track 40 : DanHam62_9, Oppalora_9, Atlantica_9, AdoptaAdorbs_9, Juno112_9, KHumphrey_9, Glotell_9, RedFox_9, AmiCi24_9, Fingolfin_9
• Track 41 : Andrew_10
• Track 42 : Amphitrite_9, Laphuphu24k_9, HamCheese_9, PhluffyCoco_9, Camara_9
• Track 43 : Babushka_9, Leona_9, Azaz_9
• Track 44 : Rattail_9
• Track 45 : Renna12_10
• Track 46 : AlexMinion_9, StuartMinion_9
• Track 47 : Nesbitt_9
• Track 48 : Rowa_9
• Track 49 : AbbeyMikolon_9
• Track 50 : Success_55
• Track 51 : Spooks_54
• Track 52 : Bimmel_53
• Track 53 : LilBandit_8, P14.4_8
• Track 54 : SKKY_8, Moyashi_8
• Track 55 : P101A_8
• Track 56 : Enoki_8
• Track 57 : P106L_8, P106I_8, P106C_8, P106M_8, P106A_8
• Track 58 : DrParker_8
• Track 59 : Attacne_8
• Track 60 : PAS50_8
• Track 61 : P107A_8
• Track 62 : Enochoraptor_8
• Track 63 : PHL113M01_08
• Track 64 : Kubed_8
• Track 65 : Ouroboros_8
• Track 66 : P107C_8, Wizzo_8, ATCC29399BC_8, Supernova_8, Solid_8
• Track 67 : MEAK_8
• Track 68 : P104B_8, Stormborn_8, Procrass1_8
• Track 69 : PHL010M04_08
• Track 70 : Rileysaurus_8
• Track 71 : P100.1_8, MrAK_8, P104A_8
• Track 72 : P100A_8
• Track 73 : P1.1_8
• Track 74 : PA6_8

• Track 75 : Pirate_8, PHL071N05_08, P108C_8
• Track 76 : Aquarius_8
• Track 77 : BruceLethal_8
• Track 78 : PHL060L00_08
• Track 79 : Cota_8, Keiki_8
• Track 80 : P9.1_8
• Track 81 : P100D_8
• Track 82 : ATCC29399BT_8
• Track 83 : Leviosa_8
• Track 84 : P105_8
• Track 85 : PHL111M01_08
• Track 86 : Lauchelly_8
• Track 87 : PHL114L00_08
• Track 88 : PHL112N00_08
• Track 89 : QueenBey_8
• Track 90 : PHL067M10_08
• Track 91 : PAD20_8
• Track 92 : PHL037M02_08
• Track 93 : TinaLin_16, Banquo_17
• Track 94 : Vendetta_13, Splinter_13, Goib_14
• Track 95 : DinoDaryn_15, Huffy_15, TZGordon_15
• Track 96 : Gsput1_11
• Track 97 : Dardanus_15
• Track 98 : Schmidt_11
• Track 99 : Catfish_12
• Track 100 : Soilmate_9, CarolAnn_9, Frokostdame_9, Blino_9
• Track 101 : Lysidious_9, JasperJr_9, BlingBling_9, Hitter_9, Guacamole_9, Zarbodnamra_9, Utz_9, Melba_9, CaptainKirk2_9, MintFen_9, Barco_9, Delian_9
• Track 102 : Malachai_9, Begonia_9, Mellie_9
• Track 103 : PrincePatrick_9, Fairfaxidum_9, William_9
• Track 104 : Archis_10
• Track 105 : Obliviate_9, Wisp_9, ZiggyZoo_9
• Track 106 : Murp_9
• Track 107 : Toast_9, PCoral7_9
• Track 108 : CheeseSpider_9
• Track 109 : Gambino_9, Azula_9, Blueberry_9, MissRona_9
• Track 110 : Pipp_10
• Track 111 : Petra_9
• Track 112 : Wocket_10
• Track 113 : Fenry_9
• Track 114 : Jalammah_9
• Track 115 : Samba_9, UmaThurman_9
• Track 116 : KappaFarmDelta_9
• Track 117 : Walrus_9
• Track 118 : PhrostedPhlake_9
• Track 119 : JuJu_9
• Track 120 : Zilla_9
• Track 121 : Ghobes_7, Frizzle_7
• Track 122 : Sapo_7
• Track 123 : Archimedes_7
• Track 124 : Avocadoman_9, Johnathan_9, SansAfet_9, DickRichards_9, BelmontSKP_10, Solea_10, Burritobowl_9, Milomuff_10, Cashington_9, Bengal_9, Softsoap_9, Albright_9, LimaBean_9, Arroyo_10, Doobus_9, Abigail_9, PhigPhack_9,

AnnaLie_10
• Track 125 : Teagster_8
• Track 126 : Swervy_9, SarBear_9, AylexOG_10, Slay_9, Finalfrontier_10
• Track 127 : Bachaco_9, Celaena_9, Katzastrophic_9
• Track 128 : WalkingDead_9
• Track 129 : Jovita_9, Jabb_9, Eula_9, MsUbiquitous_9, Pecas_9, QMacho_10, CupcakePrincess_9
• Track 130 : BAjuniper_9
• Track 131 : AvGardian_9
• Track 132 : Coltrane_8, Skylord_8, Clayda5_8, Rollins_8, Vitas_8, Brahms_8, Armstrong_8, Bernstein_8
• Track 133 : Phisb_9, BubbaBear_9, Albedo_9, Lynlen_9, Kenzers_9
• Track 134 : Grist_9
• Track 135 : Lahqtemish_9, PastaFagioli_9, BabyDaisy_10
• Track 136 : Akino08_9
• Track 137 : Eden_8
• Track 138 : FlameThrower_9
• Track 139 : Loviatar_9
• Track 140 : SanaSana_10, Stoor_9
• Track 141 : Kieran_9, ChiliPepper_9
• Track 142 : Olliecat_9, Squircle_9
• Track 143 : TukTuk_9
• Track 144 : Rona_9, Kamdara_9
• Track 145 : BabyYoda_9, Stromboli_9
• Track 146 : CanFranMach_9
• Track 147 : Lilo27_9
• Track 148 : Sharkboy_9
• Track 149 : IndyLu_9, Kate33_9
• Track 150 : Shayna_8, SunnyD_8
• Track 151 : PondAmelia_10
• Track 152 : Franklin22_8
• Track 153 : CroZenni_9
• Track 154 : Elva_10
• Track 155 : Quenya_10
• Track 156 : Icarian_10
• Track 157 : Dismas_9
• Track 158 : Nicky22_10
• Track 159 : Buldak_9
• Track 160 : SirBeanington_9
• Track 161 : Didgeridoo_10
• Track 162 : DirtyBubble_9
• Track 163 : CliffHanger_10
• Track 164 : Gack_8
• Track 165 : Lederberg_9, Troy_9, SamW_9, Dina_9
• Track 166 : Stiles_9
• Track 167 : Bran_9, Adelaide_9
• Track 168 : StAB_9
• Track 169 : Gibbzilla_9
• Track 170 : Raya_9, Neroxid_9, Skyerus_9
• Track 171 : RunningOnE_66
• Track 172 : Ibantik_73
• Track 173 : Shambre1_10
• Track 174 : Kromp_10

• Track 175 : BFK20_ORF9
• Track 176 : Elener_11

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

The start number called the most often in the published annotations is 52, it was called in 230 of the 351 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbeyMikolon_9, Abigail_9, Akino08_9, Albanese_12, Albedo_9, Albright_9, Aledel_8, AnnaLie_10, AppleCider_12, Archis_10, Armstrong_8, Arroyo_10, AustinPowers_8, AvGardian_9, Avocadoman_9, AylexOG_10, Azula_9, BAjuniper_9, BabyDaisy_10, BabyYoda_9, Bachaco_9, Banquo_17, Barco_9, Beethoven_12, Begonia_9, BelmontSKP_10, Bengal_9, Bennie_8, Bernstein_8, BigMack_8, BlingBling_9, Blino_9, Blueberry_9, Bodacious_8, Brahms_8, BrotherBLo_12, BubbaBear_9, Buldak_9, Burritobowl_9, CallieOMalley_12, CanFranMach_9, Canowicakte_12, CaptainKirk2_9, CarolAnn_9, Carpal_12, Cashington_9, Catfish_12, Celaena_9, CheeseSpider_9, ChewChew_8, ChiliPepper_9, Cholula_12, Chridison_8, Christian_8, Clayda5_8, CliffHanger_10, Coltrane_8, CristinaYang_8, CroZenni_9, CupcakePrincess_9, Daiboju_8, Dardanus_15, Delian_9, DickRichards_9, Didgeridoo_10, DinoDaryn_15, Dino_12, DirtyBubble_9, Doobus_9, DrRobert_8, DreamTeam_8, Eden_8, Elener_11, Elva_10, EstebanJulior_8, Eula_9, Eunoia_8, Fairfaxidum_9, Fenry_9, Finalfrontier_10, FlameThrower_9, Fluke_12, Franklin22_8, Frokostdame_9, Gack_8, Gambino_9, Gisselle_8, Glenn_12, Goib_14, Graynor_12, GreenHearts_12, Greenhouse_12, Grist_9, Gsput1_11, Guacamole_9, HeadNerd_8, Herb_8, Hitter_9, Huckleberry_8, Huffy_15, HunterDalle_8, Huntingdon_12, Icarian_10, Immaculata_12, IndyLu_9, Jabb_9, Jalammah_9, JasperJr_9, Joann_12, Johnathan_9, Jovita_9, JuJu_9, Jumboset_12, Kalizoi_12, Kamdara_9, KappaFarmDelta_9, Kate33_9, Katzastrophic_9, Kenzers_9, Kieran_9, KingBob_8, Kittykat_8, Korra_12, Kromp_10, Lahqtemish_9, Lakshmi_12, Lasagna_8, Lennox_8, LilStuart_8, Lilo27_9, LimaBean_9, Litotes_12, Loviatar_9, Lucy_8, Lynlen_9, Lysidious_9, Makoto_8, Malachai_9, MamaPearl_8, Maria1952_8, MeganNoll_12, Melba_9, Mellie_9, Milomuff_10, MintFen_9, Misaeng_12, MissRona_9, Moki_8, MrBoss_12, MrGloopy_12, MsUbiquitous_9, Murp_9, Nancia_8, Nesbitt_9, Nicky22_10, Nubia_12, OMalley_8, Obliviate_9, Olliecat_9, OurGirlNessie_8, Oxynfrius_12, PCoral7_9, PartyCup_12, PastaFagioli_9, Pecas_9, Petra_9, PhigPhack_9, Phisb_9, PhrostedPhlake_9, PinkFriday_8, Pipp_10, PitaDog_8, PondAmelia_10, Potatoes_12, Preamble_8, PrincePatrick_9, Pterodactyl_8, Pumancara_8, QMacho_10, Quenya_10, RAP15_12, RcigaStruga_12, Riovina_8, Riverdale_12, Rollins_8, Rona_9, Rowa_9, Rozby_12, Samba_9, SanaSana_10, SansAfet_9, SarBear_9, Savage2526_12, Schmidt_11, Scuttle_12, Sergei_8, Sharkboy_9, Shayna_8, SirBeanington_9, Skylord_8, Slay_9, Softsoap_9, Soilmate_9, Solea_10, Splinter_13, Squircle_9, Stoor_9, Stromboli_9, SunnyD_8, Supakev_8, Suppi_12, Swervy_9, TZGordon_15, TattModd_12, Teagster_8, Temper16_8, TinaLin_16, Toast_9, TukTuk_9, UmaThurman_9, Urla_8, Utz_9, Vallejo_12, Vendetta_13, Vitas_8, Vulture_8, WalkingDead_9, Walrus_9, Wawa_12, Wayne_12, William_9, Wisp_9, Wocket_10, WonderBoy_8, Zarbodnamra_9, ZiggyZoo_9, Zilla_9, Zorro_12,

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

• Dismas_9,

Genes that do not have the "Most Annotated" start:
• ATCC29399BC_8, ATCC29399BT_8, Abidatro_10, Adelaide_9, AdoptaAdorbs_9, AlexMinion_9, Amanises_11, Amelia_11, AmiCi24_9, Amphitrite_9, Andrew_10, Antrice_10, Aquarius_8, Archimedes_7, Atlantica_9, Attacne_8, Azaz_9, BFK20_ORF9, Babushka_9, BadWillHunting_11, Basilisk_10, Bedetta_11, Bibble12_11, Bimmel_53, Bran_9, BruceLethal_8, Brynnie_10, Camara_9, Chickaboom_9, Chicken_10, Colusalem_10, Coral_10, Cota_8, Cote_11, Cygnet_10, Damocles_11, DanHam62_9, Daob_11, Dina_9, DrParker_8, Eesa_10, Enochoraptor_8, Enoki_8, Fingolfin_9, Frizzle_7, Galaxy_10, Ghobes_7, Gibbzilla_9, Glotell_9, GramZayde_10, Gravel_11, HamCheese_9, HannahPhantana_11, Ibantik_73, Jamun_10, Jerole_11, Juno112_9, KHumphrey_9, Keiki_8, KendraB23_11, Kepler_10, Kubed_8, Kuleana_10, Laphuphu24k_9, Lauchelly_8, Lederberg_9, Leona_9, Leviosa_8, LilBandit_8, LittleTokyo_10, Lunar_11, MEAK_8, Melons_11, Moyashi_8, MrAK_8, Neroxid_9, Niblet_10, Oppalora_9, Orcanus_10, OtsoOtso_10, Ouroboros_8, P1.1_8, P100.1_8, P100A_8, P100D_8, P101A_8, P104A_8, P104B_8, P105_8, P106A_8, P106C_8, P106I_8, P106L_8, P106M_8, P107A_8, P107C_8, P108C_8, P14.4_8, P9.1_8, PA6_8, PAD20_8, PAS50_8, PHL010M04_08, PHL037M02_08, PHL060L00_08, PHL067M10_08, PHL071N05_08, PHL111M01_08, PHL112N00_08, PHL113M01_08, PHL114L00_08, Pelletreau_11, PhirstandPhine_11, PhluffyCoco_9, Pineda_11, Pirate_8, Polka_10, Procrass1_8, QueenBey_8, Rattail_9, Raya_9, RedFox_9, Renna12_10, Rileysaurus_8, Ruchi_10, RunningOnE_66, SKKY_8, SamW_9, Sapo_7, Shambre1_10, Shen_11, Skyerus_9, Solid_8, Spooks_54, StAB_9, Stiles_9, Stormborn_8, StuartMinion_9, Success_55, Supernova_8, TaylorSipht_10, Toad24_11, Troy_9, Vulpecula_10, Westrich_11, WileyE_9, Wizzo_8, Zhuangyuan_11, Zixiang_10,

Summary by start number:

Start 42:
• Found in 3 of 388 (0.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Neroxid_9 (FQ2), Raya_9 (FQ2), Skyerus_9 (FQ2),

Start 50:
• Found in 27 of 388 (7.0%) of genes in pham
• Manual Annotations of this start: 1 of 351
• Called 7.4% of time when present
• Phage (with cluster) where this start called: BFK20_ORF9 (singleton), Dismas_9 (EB),

Start 51:
• Found in 69 of 388 (17.8%) of genes in pham
• Manual Annotations of this start: 56 of 351
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abidatro_10 (AS1), AdoptaAdorbs_9 (AS3), AlexMinion_9 (AS3), Amanises_11 (AS1), Amelia_11 (AS2), AmiCi24_9 (AS3), Amphitrite_9 (AS3), Andrew_10 (AS3), Antrice_10 (AS2), Atlantica_9 (AS3), Azaz_9 (AS3), Babushka_9 (AS3), BadWillHunting_11 (AS2), Basilisk_10 (AS1), Bedetta_11

(AS2), Bibble12_11 (AS2), Brynnie_10 (AS1), Camara_9 (AS3), Chickaboom_9 (AS1), Chicken_10 (AS1), Colusalem_10 (AS2), Coral_10 (AS2), Cote_11 (AS2), Cygnet_10 (AS2), Damocles_11 (AS2), DanHam62_9 (AS3), Daob_11 (AS2), Eesa_10 (AS1), Fingolfin_9 (AS3), Galaxy_10 (AS1), Glotell_9 (AS3), GramZayde_10 (AS2), Gravel_11 (AS1), HamCheese_9 (AS3), HannahPhantana_11 (AS2), Jamun_10 (AS1), Jerole_11 (AS2), Juno112_9 (AS3), KHumphrey_9 (AS3), KendraB23_11 (AS1), Kepler_10 (AS2), Kuleana_10 (AS2), Laphuphu24k_9 (AS3), Leona_9 (AS3), LittleTokyo_10 (AS2), Lunar_11 (AS2), Melons_11 (AS2), Niblet_10 (AS1), Oppalora_9 (AS3), Orcanus_10 (AS1), OtsoOtso_10 (AS2), Pelletreau_11 (AS1), PhirstandPhine_11 (AS2), PhluffyCoco_9 (AS3), Pineda_11 (AS2), Polka_10 (AS2), Rattail_9 (AS3), RedFox_9 (AS3), Renna12_10 (AS3), Ruchi_10 (AS1), Shen_11 (AS1), StuartMinion_9 (AS3), TaylorSipht_10 (AS1), Toad24_11 (AS1), Vulpecula_10 (AS1), Westrich_11 (AS1), WileyE_9 (AS1), Zhuangyuan_11 (AS2), Zixiang_10 (AS1),

Start 52:
• Found in 239 of 388 (61.6%) of genes in pham
• Manual Annotations of this start: 230 of 351
• Called 99.6% of time when present
• Phage (with cluster) where this start called: AbbeyMikolon_9 (BL), Abigail_9 (EB), Akino08_9 (EB), Albanese_12 (AK), Albedo_9 (EB), Albright_9 (EB), Aledel_8 (AK), AnnaLie_10 (EB), AppleCider_12 (AK), Archis_10 (CV), Armstrong_8 (EB), Arroyo_10 (EB), AustinPowers_8 (AK), AvGardian_9 (EB), Avocadoman_9 (EB), AylexOG_10 (EB), Azula_9 (CV), BAjuniper_9 (EB), BabyDaisy_10 (EB), BabyYoda_9 (EB), Bachaco_9 (EB), Banquo_17 (CU1), Barco_9 (CV), Beethoven_12 (AK), Begonia_9 (CV), BelmontSKP_10 (EB), Bengal_9 (EB), Bennie_8 (AK), Bernstein_8 (EB), BigMack_8 (AK), BlingBling_9 (CV), Blino_9 (CV), Blueberry_9 (CV), Bodacious_8 (AK), Brahms_8 (EB), BrotherBLo_12 (AK), BubbaBear_9 (EB), Buldak_9 (EB), Burritobowl_9 (EB), CallieOMalley_12 (AK), CanFranMach_9 (EB), Canowicakte_12 (AK), CaptainKirk2_9 (CV), CarolAnn_9 (CV), Carpal_12 (AK), Cashington_9 (EB), Catfish_12 (CU5), Celaena_9 (EB), CheeseSpider_9 (CV), ChewChew_8 (AK), ChiliPepper_9 (EB), Cholula_12 (AK), Chridison_8 (AK), Christian_8 (AK), Clayda5_8 (EB), CliffHanger_10 (EB), Coltrane_8 (EB), CristinaYang_8 (AK), CroZenni_9 (EB), CupcakePrincess_9 (EB), Daiboju_8 (AK), Dardanus_15 (CU3), Delian_9 (CV), DickRichards_9 (EB), Didgeridoo_10 (EB), DinoDaryn_15 (CU1), Dino_12 (AK), DirtyBubble_9 (EB), Doobus_9 (EB), DrRobert_8 (AK), DreamTeam_8 (AK), Eden_8 (EB), Elener_11 (singleton), Elva_10 (EB), EstebanJulior_8 (AK), Eula_9 (EB), Eunoia_8 (AK), Fairfaxidum_9 (CV), Fenry_9 (CV), Finalfrontier_10 (EB), FlameThrower_9 (EB), Fluke_12 (AK), Franklin22_8 (EB), Frokostdame_9 (CV), Gack_8 (EB), Gambino_9 (CV), Gisselle_8 (AK), Glenn_12 (AK), Goib_14 (CU1), Graynor_12 (AK), GreenHearts_12 (AK), Greenhouse_12 (AK), Grist_9 (EB), Gsput1_11 (CU2), Guacamole_9 (CV), HeadNerd_8 (AK), Herb_8 (AK), Hitter_9 (CV), Huckleberry_8 (AK), Huffy_15 (CU1), HunterDalle_8 (AK), Huntingdon_12 (AK), Icarian_10 (EB), Immaculata_12 (AK), IndyLu_9 (EB), Jabb_9 (EB), Jalammah_9 (CV), JasperJr_9 (CV), Joann_12 (AK), Johnathan_9 (EB), Jovita_9 (EB), JuJu_9 (CV), Jumboset_12 (AK), Kalizoi_12 (AK), Kamdara_9 (EB), KappaFarmDelta_9 (CV), Kate33_9 (EB), Katzastrophic_9 (EB), Kenzers_9 (EB), Kieran_9 (EB), KingBob_8 (AK), Kittykat_8 (AK), Korra_12 (AK), Kromp_10 (singleton), Lahqtemish_9 (EB), Lakshmi_12 (AK), Lasagna_8 (AK), Lennox_8 (AK), LilStuart_8 (AK), Lilo27_9 (EB), LimaBean_9 (EB), Litotes_12 (AK), Loviatar_9 (EB), Lucy_8 (AK), Lynlen_9 (EB), Lysidious_9 (CV), Makoto_8 (AK), Malachai_9 (CV), MamaPearl_8 (AK), Maria1952_8 (AK), MeganNoll_12 (AK), Melba_9 (CV), Mellie_9 (CV), Milomuff_10 (EB), MintFen_9 (CV), Misaeng_12 (AK),

MissRona_9 (CV), Moki_8 (AK), MrBoss_12 (AK), MrGloopy_12 (AK), MsUbiquitous_9 (EB), Murp_9 (CV), Nancia_8 (AK), Nesbitt_9 (BL), Nicky22_10 (EB), Nubia_12 (AK), OMalley_8 (AK), Obliviate_9 (CV), Olliecat_9 (EB), OurGirlNessie_8 (AK), Oxynfrius_12 (AK), PCoral7_9 (CV), PartyCup_12 (AK), PastaFagioli_9 (EB), Pecas_9 (EB), Petra_9 (CV), PhigPhack_9 (EB), Phisb_9 (EB), PhrostedPhlake_9 (CV), PinkFriday_8 (AK), Pipp_10 (CV), PitaDog_8 (AK), PondAmelia_10 (EB), Potatoes_12 (AK), Preamble_8 (AK), PrincePatrick_9 (CV), Pterodactyl_8 (AK), Pumancara_8 (AK), QMacho_10 (EB), Quenya_10 (EB), RAP15_12 (AK), RcigaStruga_12 (AK), Riovina_8 (AK), Riverdale_12 (AK), Rollins_8 (EB), Rona_9 (EB), Rowa_9 (BL), Rozby_12 (AK), Samba_9 (CV), SanaSana_10 (EB), SansAfet_9 (EB), SarBear_9 (EB), Savage2526_12 (AK), Schmidt_11 (CU4), Scuttle_12 (AK), Sergei_8 (AK), Sharkboy_9 (EB), Shayna_8 (EB), SirBeanington_9 (EB), Skylord_8 (EB), Slay_9 (EB), Softsoap_9 (EB), Soilmate_9 (CV), Solea_10 (EB), Splinter_13 (CU1), Squircle_9 (EB), Stoor_9 (EB), Stromboli_9 (EB), SunnyD_8 (EB), Supakev_8 (AK), Suppi_12 (AK), Swervy_9 (EB), TZGordon_15 (CU1), TattModd_12 (AK), Teagster_8 (EB), Temper16_8 (AK), TinaLin_16 (CU1), Toast_9 (CV), TukTuk_9 (EB), UmaThurman_9 (CV), Urla_8 (AK), Utz_9 (CV), Vallejo_12 (AK), Vendetta_13 (CU1), Vitas_8 (EB), Vulture_8 (AK), WalkingDead_9 (EB), Walrus_9 (CV), Wawa_12 (AK), Wayne_12 (AK), William_9 (CV), Wisp_9 (CV), Wocket_10 (CV), WonderBoy_8 (AK), Zarbodnamra_9 (CV), ZiggyZoo_9 (CV), Zilla_9 (CV), Zorro_12 (AK),

Start 53:
• Found in 1 of 388 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 351
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gibbzilla_9 (FB),

Start 54:
• Found in 78 of 388 (20.1%) of genes in pham
• Manual Annotations of this start: 49 of 351
• Called 78.2% of time when present
• Phage (with cluster) where this start called: ATCC29399BC_8 (BU), ATCC29399BT_8 (BU), Aquarius_8 (BU), Archimedes_7 (DA), Attacne_8 (BU), BruceLethal_8 (BU), Cota_8 (BU), DrParker_8 (BU), Enochoraptor_8 (BU), Enoki_8 (BU), Frizzle_7 (DA), Ghobes_7 (DA), Keiki_8 (BU), Kubed_8 (BU), Lauchelly_8 (BU), Leviosa_8 (BU), LilBandit_8 (BU), MEAK_8 (BU), Moyashi_8 (BU), MrAK_8 (BU), Ouroboros_8 (BU), P1.1_8 (BU), P100.1_8 (BU), P100A_8 (BU), P100D_8 (BU), P101A_8 (BU), P104A_8 (BU), P104B_8 (BU), P105_8 (BU), P106A_8 (BU), P106C_8 (BU), P106I_8 (BU), P106L_8 (BU), P106M_8 (BU), P107A_8 (BU), P107C_8 (BU), P108C_8 (BU), P14.4_8 (BU), P9.1_8 (BU), PA6_8 (BU), PAD20_8 (BU), PAS50_8 (BU), PHL010M04_08 (BU), PHL037M02_08 (BU), PHL060L00_08 (BU), PHL067M10_08 (BU), PHL071N05_08 (BU), PHL111M01_08 (BU), PHL112N00_08 (BU), PHL113M01_08 (BU), PHL114L00_08 (BU), Pirate_8 (BU), Procrass1_8 (BU), QueenBey_8 (BU), Rileysaurus_8 (BU), SKKY_8 (BU), Sapo_7 (DA), Solid_8 (BU), Stormborn_8 (BU), Supernova_8 (BU), Wizzo_8 (BU),

Start 56:
• Found in 2 of 388 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 351
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ibantik_73 (JN), RunningOnE_66 (JN),

Start 57:

• Found in 11 of 388 (2.8%) of genes in pham
• Manual Annotations of this start: 9 of 351
• Called 81.8% of time when present
• Phage (with cluster) where this start called: Adelaide_9 (EP), Bran_9 (EP), Dina_9 (EP), Lederberg_9 (EP), SamW_9 (EP), StAB_9 (EP), Stiles_9 (EP), Success_55 (BT), Troy_9 (EP),

Start 61:
• Found in 93 of 388 (24.0%) of genes in pham
• Manual Annotations of this start: 2 of 351
• Called 2.2% of time when present
• Phage (with cluster) where this start called: Bimmel_53 (BT), Spooks_54 (BT),

Start 65:
• Found in 2 of 388 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 351
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Shambre1_10 (singleton),

Summary by clusters:

There are 20 clusters represented in this pham: AS3, AS2, AS1, CU4, CU3, CU2, CU1, JN, BL, AK, CU5, EB, BT, BU, FB, FQ2, singleton, DA, CV, EP,

Info for manual annotations of cluster AK:
•Start number 52 was manually annotated 84 times for cluster AK.

Info for manual annotations of cluster AS1:
•Start number 51 was manually annotated 18 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 51 was manually annotated 19 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 51 was manually annotated 19 times for cluster AS3.

Info for manual annotations of cluster BL:
•Start number 52 was manually annotated 3 times for cluster BL.

Info for manual annotations of cluster BT:
•Start number 57 was manually annotated 1 time for cluster BT.
•Start number 61 was manually annotated 2 times for cluster BT.

Info for manual annotations of cluster BU:
•Start number 54 was manually annotated 45 times for cluster BU.

Info for manual annotations of cluster CU1:
•Start number 52 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 52 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:
•Start number 52 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:
•Start number 52 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CV:
•Start number 52 was manually annotated 45 times for cluster CV.

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

Info for manual annotations of cluster EB:
•Start number 50 was manually annotated 1 time for cluster EB.
•Start number 52 was manually annotated 85 times for cluster EB.

Info for manual annotations of cluster EP:
•Start number 57 was manually annotated 8 times for cluster EP.

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

Info for manual annotations of cluster JN:
•Start number 56 was manually annotated 2 times for cluster JN.

Gene Information:

Gene: ATCC29399BC_8 Start: 6098, Stop: 6445, Start Num: 54
Candidate Starts for ATCC29399BC_8:
(38, 6035), (Start: 54 @6098 has 49 MA's), (66, 6128), (67, 6131), (79, 6173), (85, 6203), (90, 6215), (111, 6287), (116, 6308), (129, 6350), (136, 6374), (137, 6377), (139, 6392), (147, 6425),

Gene: ATCC29399BT_8 Start: 6095, Stop: 6442, Start Num: 54
Candidate Starts for ATCC29399BT_8:
(47, 6080), (Start: 54 @6095 has 49 MA's), (66, 6125), (67, 6128), (85, 6200), (90, 6212), (95, 6230), (129, 6347), (136, 6371), (137, 6374), (139, 6389), (145, 6416), (147, 6422),

Gene: AbbeyMikolon_9 Start: 7191, Stop: 7532, Start Num: 52
Candidate Starts for AbbeyMikolon_9:
(Start: 52 @7191 has 230 MA's), (59, 7203), (69, 7233), (90, 7308), (119, 7410), (123, 7425), (127, 7440), (150, 7521),

Gene: Abidatro_10 Start: 7704, Stop: 8066, Start Num: 51
Candidate Starts for Abidatro_10:
(Start: 51 @7704 has 56 MA's), (Start: 54 @7707 has 49 MA's), (63, 7731), (83, 7800), (85, 7809), (99, 7857), (106, 7896), (111, 7914), (115, 7932), (119, 7941), (136, 8001),

Gene: Abigail_9 Start: 7444, Stop: 7773, Start Num: 52
Candidate Starts for Abigail_9:
(Start: 52 @7444 has 230 MA's), (Start: 61 @7459 has 2 MA's), (132, 7696), (143, 7741),

Gene: Adelaide_9 Start: 6873, Stop: 7217, Start Num: 57
Candidate Starts for Adelaide_9:
(9, 6582), (Start: 57 @6873 has 9 MA's), (79, 6939), (87, 6972), (90, 6984), (93, 6990), (95, 7002), (111, 7059), (127, 7122), (142, 7176), (147, 7197), (149, 7203),

Gene: AdoptaAdorbs_9 Start: 7312, Stop: 7650, Start Num: 51
Candidate Starts for AdoptaAdorbs_9:
(8, 7018), (17, 7105), (28, 7189), (41, 7273), (Start: 51 @7312 has 56 MA's), (69, 7357), (77, 7381), (88, 7423), (93, 7438), (106, 7483), (108, 7489), (117, 7522), (132, 7570), (137, 7588),

Gene: Akino08_9 Start: 7563, Stop: 7892, Start Num: 52
Candidate Starts for Akino08_9:
(7, 7266), (Start: 50 @7560 has 1 MA's), (Start: 52 @7563 has 230 MA's), (Start: 61 @7578 has 2 MA's), (123, 7788), (132, 7815), (134, 7824), (140, 7848), (143, 7860),

Gene: Albanese_12 Start: 9846, Stop: 10184, Start Num: 52
Candidate Starts for Albanese_12:
(Start: 52 @9846 has 230 MA's), (94, 9978), (112, 10035), (142, 10143),

Gene: Albedo_9 Start: 7316, Stop: 7645, Start Num: 52
Candidate Starts for Albedo_9:
(14, 7076), (33, 7220), (Start: 52 @7316 has 230 MA's), (Start: 61 @7331 has 2 MA's), (132, 7568), (143, 7613), (145, 7619),

Gene: Albright_9 Start: 7325, Stop: 7654, Start Num: 52
Candidate Starts for Albright_9:
(Start: 52 @7325 has 230 MA's), (Start: 61 @7340 has 2 MA's), (132, 7577), (143, 7622),

Gene: Aledel_8 Start: 6923, Stop: 7261, Start Num: 52
Candidate Starts for Aledel_8:
(Start: 52 @6923 has 230 MA's), (67, 6956), (78, 6995), (100, 7076), (133, 7181), (135, 7190),

Gene: AlexMinion_9 Start: 7338, Stop: 7676, Start Num: 51
Candidate Starts for AlexMinion_9:
(28, 7215), (36, 7263), (Start: 51 @7338 has 56 MA's), (77, 7407), (86, 7446), (88, 7449), (93, 7464), (117, 7548), (132, 7596), (148, 7662),

Gene: Amanises_11 Start: 7899, Stop: 8240, Start Num: 51
Candidate Starts for Amanises_11:
(Start: 51 @7899 has 56 MA's), (Start: 54 @7902 has 49 MA's), (69, 7944), (86, 8007), (88, 8010), (93, 8025), (123, 8133), (132, 8160), (143, 8211),

Gene: Amelia_11 Start: 7903, Stop: 8244, Start Num: 51
Candidate Starts for Amelia_11:
(27, 7771), (36, 7828), (Start: 51 @7903 has 56 MA's), (93, 8029), (99, 8056), (117, 8116), (118, 8119), (123, 8137), (132, 8164), (143, 8215),

Gene: AmiCi24_9 Start: 7312, Stop: 7650, Start Num: 51
Candidate Starts for AmiCi24_9:
(8, 7018), (17, 7105), (28, 7189), (41, 7273), (Start: 51 @7312 has 56 MA's), (69, 7357), (77, 7381), (88, 7423), (93, 7438), (106, 7483), (108, 7489), (117, 7522), (132, 7570), (137, 7588),

Gene: Amphitrite_9 Start: 7310, Stop: 7648, Start Num: 51
Candidate Starts for Amphitrite_9:
(8, 7016), (17, 7103), (28, 7187), (41, 7271), (Start: 51 @7310 has 56 MA's), (69, 7355), (77, 7379), (88, 7421), (93, 7436), (106, 7481), (108, 7487), (117, 7520), (132, 7568),

Gene: Andrew_10 Start: 7691, Stop: 8029, Start Num: 51
Candidate Starts for Andrew_10:
(28, 7568), (31, 7592), (Start: 51 @7691 has 56 MA's), (69, 7736), (85, 7796), (88, 7802), (93, 7817), (106, 7862), (117, 7901), (126, 7931), (132, 7949),

Gene: AnnaLie_10 Start: 7671, Stop: 8000, Start Num: 52
Candidate Starts for AnnaLie_10:
(Start: 52 @7671 has 230 MA's), (Start: 61 @7686 has 2 MA's), (132, 7923), (143, 7968),

Gene: Antrice_10 Start: 7647, Stop: 7985, Start Num: 51
Candidate Starts for Antrice_10:
(27, 7515), (37, 7581), (Start: 51 @7647 has 56 MA's), (69, 7692), (86, 7755), (93, 7773), (99, 7800), (143, 7956),

Gene: AppleCider_12 Start: 9802, Stop: 10140, Start Num: 52
Candidate Starts for AppleCider_12:
(Start: 52 @9802 has 230 MA's),

Gene: Aquarius_8 Start: 6088, Stop: 6435, Start Num: 54
Candidate Starts for Aquarius_8:
(38, 6025), (Start: 54 @6088 has 49 MA's), (66, 6118), (67, 6121), (79, 6163), (85, 6193), (90, 6205), (128, 6337), (129, 6340), (137, 6367), (139, 6382), (147, 6415),

Gene: Archimedes_7 Start: 6004, Stop: 6366, Start Num: 54
Candidate Starts for Archimedes_7:
(18, 5794), (Start: 54 @6004 has 49 MA's), (93, 6136), (96, 6151), (98, 6160), (143, 6334),

Gene: Archis_10 Start: 7171, Stop: 7533, Start Num: 52
Candidate Starts for Archis_10:
(29, 7069), (Start: 52 @7171 has 230 MA's), (62, 7195), (71, 7219), (79, 7249), (87, 7282), (93, 7300), (109, 7360), (118, 7399),

Gene: Armstrong_8 Start: 7093, Stop: 7425, Start Num: 52
Candidate Starts for Armstrong_8:
(7, 6796), (Start: 52 @7093 has 230 MA's), (60, 7105), (Start: 61 @7108 has 2 MA's), (72, 7144), (78, 7165), (79, 7168), (108, 7267), (132, 7348),

Gene: Arroyo_10 Start: 7795, Stop: 8124, Start Num: 52
Candidate Starts for Arroyo_10:
(Start: 52 @7795 has 230 MA's), (Start: 61 @7810 has 2 MA's), (132, 8047), (143, 8092),

Gene: Atlantica_9 Start: 7312, Stop: 7650, Start Num: 51
Candidate Starts for Atlantica_9:
(8, 7018), (17, 7105), (28, 7189), (41, 7273), (Start: 51 @7312 has 56 MA's), (69, 7357), (77, 7381), (88, 7423), (93, 7438), (106, 7483), (108, 7489), (117, 7522), (132, 7570), (137, 7588),

Gene: Attacne_8 Start: 6099, Stop: 6446, Start Num: 54
Candidate Starts for Attacne_8:

(38, 6036), (Start: 54 @6099 has 49 MA's), (66, 6129), (67, 6132), (79, 6174), (85, 6204), (90, 6216), (95, 6234), (111, 6288), (116, 6309), (129, 6351), (137, 6378), (139, 6393), (147, 6426),

Gene: AustinPowers_8 Start: 6924, Stop: 7262, Start Num: 52
Candidate Starts for AustinPowers_8:
(Start: 52 @6924 has 230 MA's), (67, 6957), (78, 6996), (100, 7077), (133, 7182), (135, 7191),

Gene: AvGardian_9 Start: 7373, Stop: 7702, Start Num: 52
Candidate Starts for AvGardian_9:
(Start: 52 @7373 has 230 MA's), (Start: 61 @7388 has 2 MA's), (84, 7472), (121, 7595), (132, 7625), (140, 7658), (143, 7670),

Gene: Avocadoman_9 Start: 7383, Stop: 7712, Start Num: 52
Candidate Starts for Avocadoman_9:
(Start: 52 @7383 has 230 MA's), (Start: 61 @7398 has 2 MA's), (132, 7635), (143, 7680),

Gene: AylexOG_10 Start: 7667, Stop: 7996, Start Num: 52
Candidate Starts for AylexOG_10:
(14, 7427), (33, 7571), (Start: 52 @7667 has 230 MA's), (Start: 61 @7682 has 2 MA's), (84, 7766), (85, 7769), (121, 7889), (132, 7919), (134, 7928), (143, 7964),

Gene: Azaz_9 Start: 7363, Stop: 7701, Start Num: 51
Candidate Starts for Azaz_9:
(28, 7240), (Start: 51 @7363 has 56 MA's), (69, 7408), (77, 7432), (88, 7474), (93, 7489), (106, 7534), (108, 7540), (117, 7573), (132, 7621), (137, 7639),

Gene: Azula_9 Start: 6835, Stop: 7194, Start Num: 52
Candidate Starts for Azula_9:
(4, 6499), (Start: 52 @6835 has 230 MA's), (62, 6859), (68, 6877), (87, 6943), (93, 6961), (109, 7021),

Gene: BAjuniper_9 Start: 7266, Stop: 7598, Start Num: 52
Candidate Starts for BAjuniper_9:
(7, 6969), (14, 7026), (Start: 52 @7266 has 230 MA's), (Start: 61 @7281 has 2 MA's), (72, 7314), (78, 7335), (115, 7470),

Gene: BFK20_ORF9 Start: 6860, Stop: 7216, Start Num: 50
Candidate Starts for BFK20_ORF9:
(48, 6854), (Start: 50 @6860 has 1 MA's), (63, 6890), (Start: 65 @6893 has 1 MA's), (70, 6908), (89, 6977), (105, 7034), (111, 7049), (133, 7130), (143, 7184), (147, 7196), (149, 7202),

Gene: Babushka_9 Start: 7360, Stop: 7698, Start Num: 51
Candidate Starts for Babushka_9:
(28, 7237), (Start: 51 @7360 has 56 MA's), (69, 7405), (77, 7429), (88, 7471), (93, 7486), (106, 7531), (108, 7537), (117, 7570), (132, 7618), (137, 7636),

Gene: BabyDaisy_10 Start: 7544, Stop: 7873, Start Num: 52
Candidate Starts for BabyDaisy_10:
(Start: 52 @7544 has 230 MA's), (Start: 61 @7559 has 2 MA's), (121, 7766), (132, 7796), (140, 7829), (143, 7841),

Gene: BabyYoda_9 Start: 7566, Stop: 7895, Start Num: 52
Candidate Starts for BabyYoda_9:

(Start: 50 @7563 has 1 MA's), (Start: 52 @7566 has 230 MA's), (Start: 61 @7581 has 2 MA's), (121, 7788), (123, 7791), (132, 7818), (143, 7863),

Gene: Bachaco_9 Start: 7457, Stop: 7786, Start Num: 52
Candidate Starts for Bachaco_9:
(Start: 50 @7454 has 1 MA's), (Start: 52 @7457 has 230 MA's), (Start: 61 @7472 has 2 MA's), (72, 7505), (121, 7679), (132, 7709), (143, 7754), (149, 7772),

Gene: BadWillHunting_11 Start: 7903, Stop: 8244, Start Num: 51
Candidate Starts for BadWillHunting_11:
(27, 7771), (36, 7828), (Start: 51 @7903 has 56 MA's), (93, 8029), (99, 8056), (117, 8116), (118, 8119), (123, 8137), (132, 8164), (143, 8215),

Gene: Banquo_17 Start: 10497, Stop: 10856, Start Num: 52
Candidate Starts for Banquo_17:
(Start: 52 @10497 has 230 MA's), (66, 10530), (71, 10545), (84, 10602), (90, 10623), (103, 10671), (104, 10674), (113, 10710), (130, 10761), (131, 10764), (132, 10767), (138, 10800), (146, 10833),

Gene: Barco_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for Barco_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (68, 7001), (71, 7007), (79, 7037), (93, 7088), (109, 7148),

Gene: Basilisk_10 Start: 8028, Stop: 8390, Start Num: 51
Candidate Starts for Basilisk_10:
(Start: 51 @8028 has 56 MA's), (63, 8055), (83, 8124), (85, 8133), (101, 8190), (106, 8220), (111, 8238), (115, 8256), (119, 8265), (136, 8325),

Gene: Bedetta_11 Start: 7903, Stop: 8244, Start Num: 51
Candidate Starts for Bedetta_11:
(27, 7771), (36, 7828), (Start: 51 @7903 has 56 MA's), (93, 8029), (99, 8056), (117, 8116), (118, 8119), (123, 8137), (132, 8164), (143, 8215),

Gene: Beethoven_12 Start: 9762, Stop: 10100, Start Num: 52
Candidate Starts for Beethoven_12:
(Start: 52 @9762 has 230 MA's), (111, 9948), (135, 10029), (142, 10059),

Gene: Begonia_9 Start: 6962, Stop: 7324, Start Num: 52
Candidate Starts for Begonia_9:
(4, 6626), (43, 6935), (Start: 52 @6962 has 230 MA's), (62, 6986), (68, 7004), (71, 7010), (79, 7040), (87, 7073), (93, 7091), (109, 7151),

Gene: BelmontSKP_10 Start: 7671, Stop: 8000, Start Num: 52
Candidate Starts for BelmontSKP_10:
(Start: 52 @7671 has 230 MA's), (Start: 61 @7686 has 2 MA's), (132, 7923), (143, 7968),

Gene: Bengal_9 Start: 7325, Stop: 7654, Start Num: 52
Candidate Starts for Bengal_9:
(Start: 52 @7325 has 230 MA's), (Start: 61 @7340 has 2 MA's), (132, 7577), (143, 7622),

Gene: Bennie_8 Start: 6907, Stop: 7245, Start Num: 52
Candidate Starts for Bennie_8:
(Start: 52 @6907 has 230 MA's), (67, 6940), (142, 7204),

Gene: Bernstein_8 Start: 7153, Stop: 7485, Start Num: 52
Candidate Starts for Bernstein_8:
(7, 6856), (Start: 52 @7153 has 230 MA's), (60, 7165), (Start: 61 @7168 has 2 MA's), (72, 7204), (78, 7225), (79, 7228), (108, 7327), (132, 7408),

Gene: Bibble12_11 Start: 7906, Stop: 8247, Start Num: 51
Candidate Starts for Bibble12_11:
(27, 7774), (36, 7831), (Start: 51 @7906 has 56 MA's), (93, 8032), (99, 8059), (117, 8119), (118, 8122), (123, 8140), (132, 8167), (143, 8218),

Gene: BigMack_8 Start: 6907, Stop: 7245, Start Num: 52
Candidate Starts for BigMack_8:
(Start: 52 @6907 has 230 MA's), (55, 6910), (67, 6940), (142, 7204),

Gene: Bimmel_53 Start: 30684, Stop: 31001, Start Num: 61
Candidate Starts for Bimmel_53:
(Start: 57 @30675 has 9 MA's), (Start: 61 @30684 has 2 MA's), (83, 30762), (111, 30855), (123, 30897),

Gene: BlingBling_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for BlingBling_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (68, 7001), (71, 7007), (79, 7037), (93, 7088), (109, 7148),

Gene: Blino_9 Start: 6859, Stop: 7221, Start Num: 52
Candidate Starts for Blino_9:
(4, 6523), (Start: 52 @6859 has 230 MA's), (62, 6883), (71, 6907), (79, 6937), (87, 6970), (93, 6988), (109, 7048),

Gene: Blueberry_9 Start: 6835, Stop: 7194, Start Num: 52
Candidate Starts for Blueberry_9:
(4, 6499), (Start: 52 @6835 has 230 MA's), (62, 6859), (68, 6877), (87, 6943), (93, 6961), (109, 7021),

Gene: Bodacious_8 Start: 6905, Stop: 7243, Start Num: 52
Candidate Starts for Bodacious_8:
(Start: 52 @6905 has 230 MA's), (67, 6938), (142, 7202),

Gene: Brahms_8 Start: 7093, Stop: 7425, Start Num: 52
Candidate Starts for Brahms_8:
(7, 6796), (Start: 52 @7093 has 230 MA's), (60, 7105), (Start: 61 @7108 has 2 MA's), (72, 7144), (78, 7165), (79, 7168), (108, 7267), (132, 7348),

Gene: Bran_9 Start: 6878, Stop: 7222, Start Num: 57
Candidate Starts for Bran_9:
(9, 6587), (Start: 57 @6878 has 9 MA's), (79, 6944), (87, 6977), (90, 6989), (93, 6995), (95, 7007), (111, 7064), (127, 7127), (142, 7181), (147, 7202), (149, 7208),

Gene: BrotherBLo_12 Start: 9769, Stop: 10107, Start Num: 52
Candidate Starts for BrotherBLo_12:
(Start: 52 @9769 has 230 MA's), (94, 9901), (111, 9955), (135, 10036), (142, 10066),

Gene: BruceLethal_8 Start: 6088, Stop: 6435, Start Num: 54

Candidate Starts for BruceLethal_8:
(25, 5941), (26, 5944), (34, 5992), (38, 6025), (44, 6061), (45, 6064), (Start: 54 @6088 has 49 MA's), (66, 6118), (67, 6121), (76, 6151), (85, 6193), (95, 6223), (111, 6277), (116, 6298), (128, 6337), (129, 6340), (136, 6364), (137, 6367), (139, 6382), (147, 6415),

Gene: Brynnie_10 Start: 7840, Stop: 8202, Start Num: 51
Candidate Starts for Brynnie_10:
(27, 7708), (Start: 51 @7840 has 56 MA's), (63, 7867), (83, 7936), (85, 7945), (101, 8002), (106, 8032), (111, 8050), (115, 8068), (119, 8077), (136, 8137),

Gene: BubbaBear_9 Start: 7316, Stop: 7645, Start Num: 52
Candidate Starts for BubbaBear_9:
(14, 7076), (33, 7220), (Start: 52 @7316 has 230 MA's), (Start: 61 @7331 has 2 MA's), (132, 7568), (143, 7613), (145, 7619),

Gene: Buldak_9 Start: 7601, Stop: 7930, Start Num: 52
Candidate Starts for Buldak_9:
(7, 7304), (Start: 52 @7601 has 230 MA's), (Start: 61 @7616 has 2 MA's), (67, 7631), (72, 7649), (74, 7655), (80, 7676), (108, 7772), (132, 7853), (140, 7886),

Gene: Burritobowl_9 Start: 7352, Stop: 7681, Start Num: 52
Candidate Starts for Burritobowl_9:
(Start: 52 @7352 has 230 MA's), (Start: 61 @7367 has 2 MA's), (132, 7604), (143, 7649),

Gene: CallieOMalley_12 Start: 9802, Stop: 10140, Start Num: 52
Candidate Starts for CallieOMalley_12:
(Start: 52 @9802 has 230 MA's), (67, 9835),

Gene: Camara_9 Start: 7313, Stop: 7651, Start Num: 51
Candidate Starts for Camara_9:
(8, 7019), (17, 7106), (28, 7190), (41, 7274), (Start: 51 @7313 has 56 MA's), (69, 7358), (77, 7382), (88, 7424), (93, 7439), (106, 7484), (108, 7490), (117, 7523), (132, 7571),

Gene: CanFranMach_9 Start: 7340, Stop: 7669, Start Num: 52
Candidate Starts for CanFranMach_9:
(Start: 52 @7340 has 230 MA's), (Start: 61 @7355 has 2 MA's), (73, 7391), (78, 7409), (121, 7562), (132, 7592), (143, 7637),

Gene: Canowicakte_12 Start: 9837, Stop: 10175, Start Num: 52
Candidate Starts for Canowicakte_12:
(Start: 52 @9837 has 230 MA's), (67, 9870),

Gene: CaptainKirk2_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for CaptainKirk2_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (68, 7001), (71, 7007), (79, 7037), (93, 7088), (109, 7148),

Gene: CarolAnn_9 Start: 6858, Stop: 7220, Start Num: 52
Candidate Starts for CarolAnn_9:
(4, 6522), (Start: 52 @6858 has 230 MA's), (62, 6882), (71, 6906), (79, 6936), (87, 6969), (93, 6987), (109, 7047),

Gene: Carpal_12 Start: 9769, Stop: 10107, Start Num: 52

Candidate Starts for Carpal_12:
(Start: 52 @9769 has 230 MA's), (111, 9955), (135, 10036), (142, 10066),

Gene: Cashington_9 Start: 7342, Stop: 7671, Start Num: 52
Candidate Starts for Cashington_9:
(Start: 52 @7342 has 230 MA's), (Start: 61 @7357 has 2 MA's), (132, 7594), (143, 7639),

Gene: Catfish_12 Start: 8464, Stop: 8817, Start Num: 52
Candidate Starts for Catfish_12:
(Start: 52 @8464 has 230 MA's), (63, 8488), (66, 8494), (83, 8557), (90, 8584), (110, 8650), (113, 8671), (115, 8677),

Gene: Celaena_9 Start: 7394, Stop: 7723, Start Num: 52
Candidate Starts for Celaena_9:
(Start: 50 @7391 has 1 MA's), (Start: 52 @7394 has 230 MA's), (Start: 61 @7409 has 2 MA's), (72, 7442), (121, 7616), (132, 7646), (143, 7691), (149, 7709),

Gene: CheeseSpider_9 Start: 6835, Stop: 7197, Start Num: 52
Candidate Starts for CheeseSpider_9:
(Start: 52 @6835 has 230 MA's), (62, 6859), (71, 6883), (79, 6913), (87, 6946), (93, 6964), (109, 7024),

Gene: ChewChew_8 Start: 6904, Stop: 7242, Start Num: 52
Candidate Starts for ChewChew_8:
(Start: 52 @6904 has 230 MA's), (67, 6937), (142, 7201),

Gene: Chickaboom_9 Start: 7385, Stop: 7747, Start Num: 51
Candidate Starts for Chickaboom_9:
(27, 7253), (Start: 51 @7385 has 56 MA's), (63, 7412), (83, 7481), (85, 7490), (101, 7547), (106, 7577), (111, 7595), (115, 7613), (119, 7622), (136, 7682),

Gene: Chicken_10 Start: 7688, Stop: 8029, Start Num: 51
Candidate Starts for Chicken_10:
(27, 7556), (36, 7613), (49, 7685), (Start: 51 @7688 has 56 MA's), (Start: 54 @7691 has 49 MA's), (69, 7733), (86, 7796), (88, 7799), (93, 7814), (123, 7922), (132, 7949), (136, 7964), (137, 7967), (143, 8000),

Gene: ChiliPepper_9 Start: 7553, Stop: 7882, Start Num: 52
Candidate Starts for ChiliPepper_9:
(7, 7256), (33, 7457), (Start: 50 @7550 has 1 MA's), (Start: 52 @7553 has 230 MA's), (Start: 61 @7568 has 2 MA's), (79, 7625), (82, 7643), (99, 7700), (121, 7775), (132, 7805), (143, 7850),

Gene: Cholula_12 Start: 9814, Stop: 10152, Start Num: 52
Candidate Starts for Cholula_12:
(Start: 52 @9814 has 230 MA's), (111, 10000), (135, 10081), (142, 10111),

Gene: Chridison_8 Start: 6924, Stop: 7262, Start Num: 52
Candidate Starts for Chridison_8:
(Start: 52 @6924 has 230 MA's), (67, 6957), (78, 6996), (100, 7077), (133, 7182), (135, 7191),

Gene: Christian_8 Start: 6905, Stop: 7243, Start Num: 52
Candidate Starts for Christian_8:
(Start: 52 @6905 has 230 MA's), (67, 6938), (142, 7202),

Gene: Clayda5_8 Start: 7093, Stop: 7425, Start Num: 52
Candidate Starts for Clayda5_8:
(7, 6796), (Start: 52 @7093 has 230 MA's), (60, 7105), (Start: 61 @7108 has 2 MA's), (72, 7144), (78, 7165), (79, 7168), (108, 7267), (132, 7348),

Gene: CliffHanger_10 Start: 7300, Stop: 7629, Start Num: 52
Candidate Starts for CliffHanger_10:
(Start: 52 @7300 has 230 MA's), (Start: 61 @7315 has 2 MA's), (78, 7369), (132, 7552), (144, 7600),

Gene: Coltrane_8 Start: 7093, Stop: 7425, Start Num: 52
Candidate Starts for Coltrane_8:
(7, 6796), (Start: 52 @7093 has 230 MA's), (60, 7105), (Start: 61 @7108 has 2 MA's), (72, 7144), (78, 7165), (79, 7168), (108, 7267), (132, 7348),

Gene: Colusalem_10 Start: 7742, Stop: 8083, Start Num: 51
Candidate Starts for Colusalem_10:
(27, 7610), (36, 7667), (Start: 51 @7742 has 56 MA's), (93, 7868), (99, 7895), (117, 7955), (118, 7958), (123, 7976), (132, 8003), (143, 8054),

Gene: Coral_10 Start: 7742, Stop: 8083, Start Num: 51
Candidate Starts for Coral_10:
(27, 7610), (36, 7667), (Start: 51 @7742 has 56 MA's), (93, 7868), (99, 7895), (117, 7955), (118, 7958), (123, 7976), (132, 8003), (143, 8054),

Gene: Cota_8 Start: 6106, Stop: 6453, Start Num: 54
Candidate Starts for Cota_8:
(34, 6010), (38, 6043), (Start: 54 @6106 has 49 MA's), (66, 6136), (67, 6139), (85, 6211), (90, 6223), (111, 6295), (116, 6316), (129, 6358), (136, 6382), (137, 6385), (139, 6400), (147, 6433),

Gene: Cote_11 Start: 7903, Stop: 8244, Start Num: 51
Candidate Starts for Cote_11:
(27, 7771), (36, 7828), (Start: 51 @7903 has 56 MA's), (93, 8029), (99, 8056), (117, 8116), (118, 8119), (123, 8137), (132, 8164), (143, 8215),

Gene: CristinaYang_8 Start: 6905, Stop: 7243, Start Num: 52
Candidate Starts for CristinaYang_8:
(Start: 52 @6905 has 230 MA's), (67, 6938), (142, 7202),

Gene: CroZenni_9 Start: 7325, Stop: 7654, Start Num: 52
Candidate Starts for CroZenni_9:
(7, 7028), (14, 7085), (33, 7229), (Start: 52 @7325 has 230 MA's), (Start: 61 @7340 has 2 MA's), (132, 7577), (143, 7622),

Gene: CupcakePrincess_9 Start: 7302, Stop: 7631, Start Num: 52
Candidate Starts for CupcakePrincess_9:
(14, 7062), (33, 7206), (Start: 52 @7302 has 230 MA's), (Start: 61 @7317 has 2 MA's), (84, 7401), (132, 7554), (143, 7599), (145, 7605),

Gene: Cygnet_10 Start: 7689, Stop: 8027, Start Num: 51
Candidate Starts for Cygnet_10:
(27, 7557), (37, 7623), (Start: 51 @7689 has 56 MA's), (66, 7722), (69, 7734), (86, 7797), (93, 7815), (132, 7947), (143, 7998),

Gene: Daiboju_8 Start: 6925, Stop: 7263, Start Num: 52
Candidate Starts for Daiboju_8:
(Start: 52 @6925 has 230 MA's), (78, 6997), (110, 7108), (133, 7183), (135, 7192), (147, 7243),

Gene: Damocles_11 Start: 7903, Stop: 8244, Start Num: 51
Candidate Starts for Damocles_11:
(27, 7771), (36, 7828), (Start: 51 @7903 has 56 MA's), (93, 8029), (99, 8056), (117, 8116), (118, 8119), (123, 8137), (132, 8164), (143, 8215),

Gene: DanHam62_9 Start: 7312, Stop: 7650, Start Num: 51
Candidate Starts for DanHam62_9:
(8, 7018), (17, 7105), (28, 7189), (41, 7273), (Start: 51 @7312 has 56 MA's), (69, 7357), (77, 7381), (88, 7423), (93, 7438), (106, 7483), (108, 7489), (117, 7522), (132, 7570), (137, 7588),

Gene: Daob_11 Start: 7906, Stop: 8247, Start Num: 51
Candidate Starts for Daob_11:
(27, 7774), (36, 7831), (Start: 51 @7906 has 56 MA's), (93, 8032), (99, 8059), (117, 8119), (118, 8122), (123, 8140), (132, 8167), (143, 8218),

Gene: Dardanus_15 Start: 9541, Stop: 9897, Start Num: 52
Candidate Starts for Dardanus_15:
(Start: 52 @9541 has 230 MA's), (66, 9571), (71, 9586), (84, 9643), (90, 9664), (103, 9712), (112, 9736), (118, 9763), (138, 9841), (150, 9886),

Gene: Delian_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for Delian_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (68, 7001), (71, 7007), (79, 7037), (93, 7088), (109, 7148),

Gene: DickRichards_9 Start: 7819, Stop: 8148, Start Num: 52
Candidate Starts for DickRichards_9:
(Start: 52 @7819 has 230 MA's), (Start: 61 @7834 has 2 MA's), (132, 8071), (143, 8116),

Gene: Didgeridoo_10 Start: 7544, Stop: 7873, Start Num: 52
Candidate Starts for Didgeridoo_10:
(7, 7247), (12, 7289), (14, 7304), (Start: 52 @7544 has 230 MA's), (Start: 61 @7559 has 2 MA's), (121, 7766), (132, 7796), (140, 7829), (143, 7841),

Gene: Dina_9 Start: 6861, Stop: 7205, Start Num: 57
Candidate Starts for Dina_9:
(9, 6570), (Start: 57 @6861 has 9 MA's), (79, 6927), (87, 6960), (93, 6978), (95, 6990), (111, 7047), (127, 7110), (142, 7164), (147, 7185), (149, 7191),

Gene: Dino_12 Start: 9768, Stop: 10106, Start Num: 52
Candidate Starts for Dino_12:
(Start: 52 @9768 has 230 MA's), (94, 9900), (111, 9954), (135, 10035), (142, 10065),

Gene: DinoDaryn_15 Start: 9631, Stop: 9990, Start Num: 52
Candidate Starts for DinoDaryn_15:
(Start: 52 @9631 has 230 MA's), (63, 9658), (66, 9664), (79, 9706), (90, 9757), (103, 9805), (132, 9901), (135, 9913), (141, 9949),

Gene: DirtyBubble_9 Start: 7574, Stop: 7903, Start Num: 52

Candidate Starts for DirtyBubble_9:
(7, 7277), (14, 7334), (Start: 50 @7571 has 1 MA's), (Start: 52 @7574 has 230 MA's), (Start: 61 @7589 has 2 MA's), (121, 7796), (123, 7799), (132, 7826), (143, 7871),

Gene: Dismas_9 Start: 7550, Stop: 7882, Start Num: 50
Candidate Starts for Dismas_9:
(7, 7256), (33, 7457), (Start: 50 @7550 has 1 MA's), (Start: 52 @7553 has 230 MA's), (Start: 61 @7568 has 2 MA's), (79, 7625), (99, 7700), (121, 7775), (132, 7805), (143, 7850),

Gene: Doobus_9 Start: 7556, Stop: 7885, Start Num: 52
Candidate Starts for Doobus_9:
(Start: 52 @7556 has 230 MA's), (Start: 61 @7571 has 2 MA's), (132, 7808), (143, 7853),

Gene: DrParker_8 Start: 6113, Stop: 6460, Start Num: 54
Candidate Starts for DrParker_8:
(21, 5957), (24, 5963), (25, 5966), (26, 5969), (30, 6008), (34, 6017), (35, 6029), (38, 6050), (Start: 54 @6113 has 49 MA's), (66, 6143), (67, 6146), (76, 6176), (79, 6188), (85, 6218), (90, 6230), (111, 6302), (116, 6323), (129, 6365), (137, 6392), (139, 6407), (147, 6440),

Gene: DrRobert_8 Start: 6905, Stop: 7243, Start Num: 52
Candidate Starts for DrRobert_8:
(Start: 52 @6905 has 230 MA's), (67, 6938), (142, 7202),

Gene: DreamTeam_8 Start: 6951, Stop: 7289, Start Num: 52
Candidate Starts for DreamTeam_8:
(Start: 52 @6951 has 230 MA's), (67, 6984), (142, 7248),

Gene: Eden_8 Start: 7182, Stop: 7514, Start Num: 52
Candidate Starts for Eden_8:
(Start: 52 @7182 has 230 MA's), (60, 7194), (Start: 61 @7197 has 2 MA's), (72, 7233), (125, 7416),

Gene: Eesa_10 Start: 7902, Stop: 8243, Start Num: 51
Candidate Starts for Eesa_10:
(Start: 51 @7902 has 56 MA's), (Start: 54 @7905 has 49 MA's), (69, 7947), (86, 8010), (88, 8013), (93, 8028), (123, 8136), (132, 8163), (143, 8214),

Gene: Elener_11 Start: 8954, Stop: 9316, Start Num: 52
Candidate Starts for Elener_11:
(Start: 52 @8954 has 230 MA's), (69, 8999), (90, 9077), (130, 9224),

Gene: Elva_10 Start: 7631, Stop: 7960, Start Num: 52
Candidate Starts for Elva_10:
(7, 7334), (Start: 50 @7628 has 1 MA's), (Start: 52 @7631 has 230 MA's), (Start: 61 @7646 has 2 MA's), (121, 7853), (123, 7856), (132, 7883), (143, 7928),

Gene: Enochoraptor_8 Start: 6109, Stop: 6456, Start Num: 54
Candidate Starts for Enochoraptor_8:
(21, 5953), (24, 5959), (25, 5962), (26, 5965), (30, 6004), (31, 6007), (34, 6013), (38, 6046), (44, 6082), (45, 6085), (Start: 54 @6109 has 49 MA's), (64, 6136), (66, 6139), (67, 6142), (79, 6184), (90, 6226), (111, 6298), (116, 6319), (129, 6361), (136, 6385), (137, 6388), (139, 6403), (147, 6436),

Gene: Enoki_8 Start: 6094, Stop: 6441, Start Num: 54
Candidate Starts for Enoki_8:

(21, 5938), (26, 5950), (34, 5998), (38, 6031), (Start: 54 @6094 has 49 MA's), (66, 6124), (67, 6127), (79, 6169), (85, 6199), (90, 6211), (111, 6283), (129, 6346), (136, 6370), (137, 6373), (139, 6388), (147, 6421),

Gene: EstebanJulior_8 Start: 6949, Stop: 7287, Start Num: 52
Candidate Starts for EstebanJulior_8:
(Start: 52 @6949 has 230 MA's), (67, 6982), (94, 7081), (142, 7246),

Gene: Eula_9 Start: 7323, Stop: 7652, Start Num: 52
Candidate Starts for Eula_9:
(14, 7083), (33, 7227), (Start: 52 @7323 has 230 MA's), (Start: 61 @7338 has 2 MA's), (84, 7422), (132, 7575), (143, 7620), (145, 7626),

Gene: Eunoia_8 Start: 6923, Stop: 7261, Start Num: 52
Candidate Starts for Eunoia_8:
(Start: 52 @6923 has 230 MA's), (67, 6956), (78, 6995), (100, 7076), (133, 7181), (135, 7190),

Gene: Fairfaxidum_9 Start: 6937, Stop: 7305, Start Num: 52
Candidate Starts for Fairfaxidum_9:
(Start: 52 @6937 has 230 MA's), (63, 6961), (66, 6967), (83, 7039), (87, 7054), (93, 7072), (96, 7087), (109, 7132), (111, 7141),

Gene: Fenry_9 Start: 6968, Stop: 7330, Start Num: 52
Candidate Starts for Fenry_9:
(43, 6941), (Start: 52 @6968 has 230 MA's), (62, 6992), (71, 7016), (79, 7046), (87, 7079), (93, 7097), (109, 7157),

Gene: Finalfrontier_10 Start: 7834, Stop: 8163, Start Num: 52
Candidate Starts for Finalfrontier_10:
(14, 7594), (33, 7738), (Start: 52 @7834 has 230 MA's), (Start: 61 @7849 has 2 MA's), (84, 7933), (85, 7936), (121, 8056), (132, 8086), (134, 8095), (143, 8131),

Gene: Fingolfin_9 Start: 7313, Stop: 7651, Start Num: 51
Candidate Starts for Fingolfin_9:
(8, 7019), (17, 7106), (28, 7190), (41, 7274), (Start: 51 @7313 has 56 MA's), (69, 7358), (77, 7382), (88, 7424), (93, 7439), (106, 7484), (108, 7490), (117, 7523), (132, 7571), (137, 7589),

Gene: FlameThrower_9 Start: 7282, Stop: 7611, Start Num: 52
Candidate Starts for FlameThrower_9:
(1, 6853), (7, 6985), (Start: 50 @7279 has 1 MA's), (Start: 52 @7282 has 230 MA's), (Start: 61 @7297 has 2 MA's), (72, 7330), (121, 7504), (132, 7534), (143, 7579), (149, 7597),

Gene: Fluke_12 Start: 9810, Stop: 10148, Start Num: 52
Candidate Starts for Fluke_12:
(Start: 52 @9810 has 230 MA's), (111, 9996), (135, 10077), (142, 10107),

Gene: Franklin22_8 Start: 7163, Stop: 7495, Start Num: 52
Candidate Starts for Franklin22_8:
(Start: 50 @7160 has 1 MA's), (Start: 52 @7163 has 230 MA's), (60, 7175), (Start: 61 @7178 has 2 MA's), (74, 7220), (84, 7265), (93, 7286), (132, 7418),

Gene: Frizzle_7 Start: 6056, Stop: 6415, Start Num: 54
Candidate Starts for Frizzle_7:

(Start: 54 @6056 has 49 MA's), (97, 6203), (134, 6338),

Gene: Frokostdame_9 Start: 6954, Stop: 7316, Start Num: 52
Candidate Starts for Frokostdame_9:
(4, 6618), (Start: 52 @6954 has 230 MA's), (62, 6978), (71, 7002), (79, 7032), (87, 7065), (93, 7083), (109, 7143),

Gene: Gack_8 Start: 7233, Stop: 7565, Start Num: 52
Candidate Starts for Gack_8:
(Start: 52 @7233 has 230 MA's), (60, 7245), (Start: 61 @7248 has 2 MA's), (67, 7266), (80, 7311), (100, 7386), (132, 7488),

Gene: Galaxy_10 Start: 7711, Stop: 8073, Start Num: 51
Candidate Starts for Galaxy_10:
(Start: 51 @7711 has 56 MA's), (Start: 54 @7714 has 49 MA's), (63, 7738), (83, 7807), (85, 7816), (99, 7864), (101, 7873), (106, 7903), (111, 7921), (115, 7939), (119, 7948), (136, 8008),

Gene: Gambino_9 Start: 6835, Stop: 7194, Start Num: 52
Candidate Starts for Gambino_9:
(4, 6499), (Start: 52 @6835 has 230 MA's), (62, 6859), (68, 6877), (87, 6943), (93, 6961), (109, 7021),

Gene: Ghobes_7 Start: 6056, Stop: 6415, Start Num: 54
Candidate Starts for Ghobes_7:
(Start: 54 @6056 has 49 MA's), (97, 6203), (134, 6338),

Gene: Gibbzilla_9 Start: 6959, Stop: 7303, Start Num: 53
Candidate Starts for Gibbzilla_9:
(Start: 53 @6959 has 1 MA's), (80, 7037), (111, 7151),

Gene: Gisselle_8 Start: 6951, Stop: 7289, Start Num: 52
Candidate Starts for Gisselle_8:
(Start: 52 @6951 has 230 MA's), (67, 6984), (142, 7248),

Gene: Glenn_12 Start: 9820, Stop: 10158, Start Num: 52
Candidate Starts for Glenn_12:
(Start: 52 @9820 has 230 MA's), (111, 10006), (135, 10087), (142, 10117),

Gene: Glotell_9 Start: 7312, Stop: 7650, Start Num: 51
Candidate Starts for Glotell_9:
(8, 7018), (17, 7105), (28, 7189), (41, 7273), (Start: 51 @7312 has 56 MA's), (69, 7357), (77, 7381), (88, 7423), (93, 7438), (106, 7483), (108, 7489), (117, 7522), (132, 7570), (137, 7588),

Gene: Goib_14 Start: 9406, Stop: 9765, Start Num: 52
Candidate Starts for Goib_14:
(Start: 52 @9406 has 230 MA's), (63, 9433), (66, 9439), (79, 9481), (90, 9532), (103, 9580), (135, 9688), (141, 9724),

Gene: GramZayde_10 Start: 7742, Stop: 8083, Start Num: 51
Candidate Starts for GramZayde_10:
(27, 7610), (36, 7667), (Start: 51 @7742 has 56 MA's), (93, 7868), (99, 7895), (117, 7955), (118, 7958), (123, 7976), (132, 8003), (143, 8054),

Gene: Gravel_11 Start: 7898, Stop: 8239, Start Num: 51

Candidate Starts for Gravel_11:
(Start: 51 @7898 has 56 MA's), (Start: 54 @7901 has 49 MA's), (69, 7943), (86, 8006), (88, 8009), (93, 8024), (123, 8132), (132, 8159), (143, 8210),

Gene: Graynor_12 Start: 9826, Stop: 10164, Start Num: 52
Candidate Starts for Graynor_12:
(Start: 52 @9826 has 230 MA's), (67, 9859),

Gene: GreenHearts_12 Start: 9892, Stop: 10230, Start Num: 52
Candidate Starts for GreenHearts_12:
(Start: 52 @9892 has 230 MA's), (94, 10024), (112, 10081), (142, 10189),

Gene: Greenhouse_12 Start: 9817, Stop: 10155, Start Num: 52
Candidate Starts for Greenhouse_12:
(Start: 52 @9817 has 230 MA's), (94, 9949), (112, 10006), (133, 10075), (135, 10084), (142, 10114),

Gene: Grist_9 Start: 7368, Stop: 7697, Start Num: 52
Candidate Starts for Grist_9:
(Start: 52 @7368 has 230 MA's), (Start: 61 @7383 has 2 MA's), (121, 7590), (140, 7653), (143, 7665),

Gene: Gsput1_11 Start: 7862, Stop: 8218, Start Num: 52
Candidate Starts for Gsput1_11:
(Start: 52 @7862 has 230 MA's), (62, 7886), (66, 7895), (69, 7907), (82, 7955), (83, 7958), (84, 7964), (105, 8039), (112, 8057), (113, 8072), (123, 8102), (126, 8111), (133, 8132), (135, 8141), (138, 8162), (141, 8177), (149, 8204),

Gene: Guacamole_9 Start: 6963, Stop: 7325, Start Num: 52
Candidate Starts for Guacamole_9:
(4, 6627), (43, 6936), (Start: 52 @6963 has 230 MA's), (62, 6987), (68, 7005), (71, 7011), (79, 7041), (93, 7092), (109, 7152),

Gene: HamCheese_9 Start: 7312, Stop: 7650, Start Num: 51
Candidate Starts for HamCheese_9:
(8, 7018), (17, 7105), (28, 7189), (41, 7273), (Start: 51 @7312 has 56 MA's), (69, 7357), (77, 7381), (88, 7423), (93, 7438), (106, 7483), (108, 7489), (117, 7522), (132, 7570),

Gene: HannahPhantana_11 Start: 7906, Stop: 8247, Start Num: 51
Candidate Starts for HannahPhantana_11:
(27, 7774), (36, 7831), (Start: 51 @7906 has 56 MA's), (93, 8032), (99, 8059), (117, 8119), (118, 8122), (123, 8140), (132, 8167), (143, 8218),

Gene: HeadNerd_8 Start: 6907, Stop: 7245, Start Num: 52
Candidate Starts for HeadNerd_8:
(Start: 52 @6907 has 230 MA's), (67, 6940), (142, 7204),

Gene: Herb_8 Start: 6925, Stop: 7263, Start Num: 52
Candidate Starts for Herb_8:
(Start: 52 @6925 has 230 MA's), (78, 6997), (110, 7108), (133, 7183), (135, 7192), (147, 7243),

Gene: Hitter_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for Hitter_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (68, 7001), (71, 7007), (79, 7037), (93, 7088), (109, 7148),

Gene: Huckleberry_8 Start: 6907, Stop: 7245, Start Num: 52
Candidate Starts for Huckleberry_8:
(Start: 52 @6907 has 230 MA's), (67, 6940), (142, 7204),

Gene: Huffy_15 Start: 9631, Stop: 9990, Start Num: 52
Candidate Starts for Huffy_15:
(Start: 52 @9631 has 230 MA's), (63, 9658), (66, 9664), (79, 9706), (90, 9757), (103, 9805), (132, 9901), (135, 9913), (141, 9949),

Gene: HunterDalle_8 Start: 6923, Stop: 7261, Start Num: 52
Candidate Starts for HunterDalle_8:
(Start: 52 @6923 has 230 MA's), (67, 6956), (78, 6995), (100, 7076), (133, 7181), (135, 7190),

Gene: Huntingdon_12 Start: 9803, Stop: 10141, Start Num: 52
Candidate Starts for Huntingdon_12:
(Start: 52 @9803 has 230 MA's), (63, 9827), (112, 9992), (135, 10070), (142, 10100), (147, 10121),

Gene: Ibantik_73 Start: 34657, Stop: 34986, Start Num: 56
Candidate Starts for Ibantik_73:
(Start: 56 @34657 has 2 MA's), (83, 34744), (98, 34795), (117, 34858), (132, 34906),

Gene: Icarian_10 Start: 7557, Stop: 7886, Start Num: 52
Candidate Starts for Icarian_10:
(7, 7260), (Start: 50 @7554 has 1 MA's), (Start: 52 @7557 has 230 MA's), (Start: 61 @7572 has 2 MA's), (123, 7782), (132, 7809), (143, 7854),

Gene: Immaculata_12 Start: 9814, Stop: 10152, Start Num: 52
Candidate Starts for Immaculata_12:
(Start: 52 @9814 has 230 MA's), (111, 10000), (135, 10081), (142, 10111),

Gene: IndyLu_9 Start: 7368, Stop: 7697, Start Num: 52
Candidate Starts for IndyLu_9:
(7, 7071), (12, 7113), (14, 7128), (Start: 52 @7368 has 230 MA's), (Start: 61 @7383 has 2 MA's), (121, 7590), (140, 7653), (143, 7665),

Gene: Jabb_9 Start: 7302, Stop: 7631, Start Num: 52
Candidate Starts for Jabb_9:
(14, 7062), (33, 7206), (Start: 52 @7302 has 230 MA's), (Start: 61 @7317 has 2 MA's), (84, 7401), (132, 7554), (143, 7599), (145, 7605),

Gene: Jalammah_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for Jalammah_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (68, 7001), (71, 7007), (79, 7037), (87, 7070), (93, 7088), (109, 7148), (118, 7187),

Gene: Jamun_10 Start: 8052, Stop: 8414, Start Num: 51
Candidate Starts for Jamun_10:
(27, 7920), (Start: 51 @8052 has 56 MA's), (Start: 54 @8055 has 49 MA's), (63, 8079), (83, 8148), (85, 8157), (101, 8214), (106, 8244), (111, 8262), (115, 8280), (119, 8289), (136, 8349),

Gene: JasperJr_9 Start: 6963, Stop: 7325, Start Num: 52
Candidate Starts for JasperJr_9:

(4, 6627), (43, 6936), (Start: 52 @6963 has 230 MA's), (62, 6987), (68, 7005), (71, 7011), (79, 7041), (93, 7092), (109, 7152),

Gene: Jerole_11 Start: 7903, Stop: 8244, Start Num: 51
Candidate Starts for Jerole_11:
(27, 7771), (36, 7828), (Start: 51 @7903 has 56 MA's), (93, 8029), (99, 8056), (117, 8116), (118, 8119), (123, 8137), (132, 8164), (143, 8215),

Gene: Joann_12 Start: 9795, Stop: 10133, Start Num: 52
Candidate Starts for Joann_12:
(Start: 52 @9795 has 230 MA's), (94, 9927), (112, 9984), (133, 10053), (135, 10062), (142, 10092),

Gene: Johnathan_9 Start: 7325, Stop: 7654, Start Num: 52
Candidate Starts for Johnathan_9:
(Start: 52 @7325 has 230 MA's), (Start: 61 @7340 has 2 MA's), (132, 7577), (143, 7622),

Gene: Jovita_9 Start: 7424, Stop: 7753, Start Num: 52
Candidate Starts for Jovita_9:
(14, 7184), (33, 7328), (Start: 52 @7424 has 230 MA's), (Start: 61 @7439 has 2 MA's), (84, 7523), (132, 7676), (143, 7721), (145, 7727),

Gene: JuJu_9 Start: 6884, Stop: 7246, Start Num: 52
Candidate Starts for JuJu_9:
(4, 6548), (Start: 52 @6884 has 230 MA's), (62, 6908), (71, 6932), (79, 6962), (87, 6995), (93, 7013), (109, 7073),

Gene: Jumboset_12 Start: 9763, Stop: 10101, Start Num: 52
Candidate Starts for Jumboset_12:
(20, 9598), (Start: 52 @9763 has 230 MA's), (111, 9949), (135, 10030), (142, 10060),

Gene: Juno112_9 Start: 7313, Stop: 7651, Start Num: 51
Candidate Starts for Juno112_9:
(8, 7019), (17, 7106), (28, 7190), (41, 7274), (Start: 51 @7313 has 56 MA's), (69, 7358), (77, 7382), (88, 7424), (93, 7439), (106, 7484), (108, 7490), (117, 7523), (132, 7571), (137, 7589),

Gene: KHumphrey_9 Start: 7312, Stop: 7650, Start Num: 51
Candidate Starts for KHumphrey_9:
(8, 7018), (17, 7105), (28, 7189), (41, 7273), (Start: 51 @7312 has 56 MA's), (69, 7357), (77, 7381), (88, 7423), (93, 7438), (106, 7483), (108, 7489), (117, 7522), (132, 7570), (137, 7588),

Gene: Kalizoi_12 Start: 9762, Stop: 10100, Start Num: 52
Candidate Starts for Kalizoi_12:
(Start: 52 @9762 has 230 MA's), (94, 9894), (111, 9948), (135, 10029), (142, 10059),

Gene: Kamdara_9 Start: 7552, Stop: 7881, Start Num: 52
Candidate Starts for Kamdara_9:
(7, 7255), (33, 7456), (Start: 50 @7549 has 1 MA's), (Start: 52 @7552 has 230 MA's), (Start: 61 @7567 has 2 MA's), (79, 7624), (99, 7699), (121, 7774), (132, 7804), (143, 7849),

Gene: KappaFarmDelta_9 Start: 6997, Stop: 7359, Start Num: 52
Candidate Starts for KappaFarmDelta_9:
(43, 6970), (Start: 52 @6997 has 230 MA's), (62, 7021), (71, 7045), (79, 7075), (87, 7108), (93, 7126), (109, 7186), (118, 7225),

Gene: Kate33_9 Start: 7367, Stop: 7696, Start Num: 52
Candidate Starts for Kate33_9:
(7, 7070), (12, 7112), (14, 7127), (Start: 52 @7367 has 230 MA's), (Start: 61 @7382 has 2 MA's), (121, 7589), (140, 7652), (143, 7664),

Gene: Katzastrophic_9 Start: 7457, Stop: 7786, Start Num: 52
Candidate Starts for Katzastrophic_9:
(Start: 50 @7454 has 1 MA's), (Start: 52 @7457 has 230 MA's), (Start: 61 @7472 has 2 MA's), (72, 7505), (121, 7679), (132, 7709), (143, 7754), (149, 7772),

Gene: Keiki_8 Start: 6106, Stop: 6453, Start Num: 54
Candidate Starts for Keiki_8:
(34, 6010), (38, 6043), (Start: 54 @6106 has 49 MA's), (66, 6136), (67, 6139), (85, 6211), (90, 6223), (111, 6295), (116, 6316), (129, 6358), (136, 6382), (137, 6385), (139, 6400), (147, 6433),

Gene: KendraB23_11 Start: 7899, Stop: 8240, Start Num: 51
Candidate Starts for KendraB23_11:
(Start: 51 @7899 has 56 MA's), (Start: 54 @7902 has 49 MA's), (69, 7944), (86, 8007), (88, 8010), (93, 8025), (123, 8133), (132, 8160), (143, 8211),

Gene: Kenzers_9 Start: 7339, Stop: 7668, Start Num: 52
Candidate Starts for Kenzers_9:
(14, 7099), (33, 7243), (Start: 52 @7339 has 230 MA's), (Start: 61 @7354 has 2 MA's), (132, 7591), (143, 7636), (145, 7642),

Gene: Kepler_10 Start: 7741, Stop: 8082, Start Num: 51
Candidate Starts for Kepler_10:
(27, 7609), (36, 7666), (Start: 51 @7741 has 56 MA's), (93, 7867), (99, 7894), (117, 7954), (118, 7957), (123, 7975), (132, 8002), (143, 8053),

Gene: Kieran_9 Start: 7556, Stop: 7885, Start Num: 52
Candidate Starts for Kieran_9:
(7, 7259), (33, 7460), (Start: 50 @7553 has 1 MA's), (Start: 52 @7556 has 230 MA's), (Start: 61 @7571 has 2 MA's), (79, 7628), (82, 7646), (99, 7703), (121, 7778), (132, 7808), (143, 7853),

Gene: KingBob_8 Start: 6925, Stop: 7263, Start Num: 52
Candidate Starts for KingBob_8:
(Start: 52 @6925 has 230 MA's), (78, 6997), (110, 7108), (133, 7183), (135, 7192), (147, 7243),

Gene: Kittykat_8 Start: 6948, Stop: 7286, Start Num: 52
Candidate Starts for Kittykat_8:
(Start: 52 @6948 has 230 MA's), (142, 7245),

Gene: Korra_12 Start: 9768, Stop: 10106, Start Num: 52
Candidate Starts for Korra_12:
(Start: 52 @9768 has 230 MA's), (94, 9900), (111, 9954), (135, 10035), (142, 10065),

Gene: Kromp_10 Start: 8334, Stop: 8675, Start Num: 52
Candidate Starts for Kromp_10:
(19, 8160), (Start: 52 @8334 has 230 MA's), (105, 8508),

Gene: Kubed_8 Start: 6096, Stop: 6443, Start Num: 54

Candidate Starts for Kubed_8:
(32, 5997), (38, 6033), (Start: 54 @6096 has 49 MA's), (66, 6126), (67, 6129), (79, 6171), (85, 6201), (90, 6213), (111, 6285), (129, 6348), (136, 6372), (137, 6375), (139, 6390), (147, 6423),

Gene: Kuleana_10 Start: 7701, Stop: 8042, Start Num: 51
Candidate Starts for Kuleana_10:
(Start: 51 @7701 has 56 MA's), (66, 7734), (86, 7809), (88, 7812), (93, 7827), (98, 7851), (99, 7854), (106, 7875), (117, 7914), (123, 7935), (132, 7962), (137, 7980), (143, 8013),

Gene: Lahqtemish_9 Start: 7412, Stop: 7741, Start Num: 52
Candidate Starts for Lahqtemish_9:
(Start: 52 @7412 has 230 MA's), (Start: 61 @7427 has 2 MA's), (121, 7634), (132, 7664), (140, 7697), (143, 7709),

Gene: Lakshmi_12 Start: 9822, Stop: 10160, Start Num: 52
Candidate Starts for Lakshmi_12:
(Start: 52 @9822 has 230 MA's), (94, 9954), (112, 10011), (142, 10119),

Gene: Laphuphu24k_9 Start: 7312, Stop: 7650, Start Num: 51
Candidate Starts for Laphuphu24k_9:
(8, 7018), (17, 7105), (28, 7189), (41, 7273), (Start: 51 @7312 has 56 MA's), (69, 7357), (77, 7381), (88, 7423), (93, 7438), (106, 7483), (108, 7489), (117, 7522), (132, 7570),

Gene: Lasagna_8 Start: 6905, Stop: 7243, Start Num: 52
Candidate Starts for Lasagna_8:
(Start: 52 @6905 has 230 MA's), (67, 6938), (142, 7202),

Gene: Lauchelly_8 Start: 6091, Stop: 6438, Start Num: 54
Candidate Starts for Lauchelly_8:
(21, 5935), (26, 5947), (34, 5995), (38, 6028), (45, 6067), (Start: 54 @6091 has 49 MA's), (66, 6121), (67, 6124), (85, 6196), (90, 6208), (129, 6343), (136, 6367), (137, 6370), (139, 6385), (147, 6418),

Gene: Lederberg_9 Start: 6861, Stop: 7205, Start Num: 57
Candidate Starts for Lederberg_9:
(9, 6570), (Start: 57 @6861 has 9 MA's), (79, 6927), (87, 6960), (93, 6978), (95, 6990), (111, 7047), (127, 7110), (142, 7164), (147, 7185), (149, 7191),

Gene: Lennox_8 Start: 6905, Stop: 7243, Start Num: 52
Candidate Starts for Lennox_8:
(Start: 52 @6905 has 230 MA's), (67, 6938), (142, 7202),

Gene: Leona_9 Start: 7363, Stop: 7701, Start Num: 51
Candidate Starts for Leona_9:
(28, 7240), (Start: 51 @7363 has 56 MA's), (69, 7408), (77, 7432), (88, 7474), (93, 7489), (106, 7534), (108, 7540), (117, 7573), (132, 7621), (137, 7639),

Gene: Leviosa_8 Start: 6112, Stop: 6459, Start Num: 54
Candidate Starts for Leviosa_8:
(21, 5956), (26, 5968), (34, 6016), (38, 6049), (45, 6088), (Start: 54 @6112 has 49 MA's), (66, 6142), (67, 6145), (76, 6175), (79, 6187), (85, 6217), (90, 6229), (93, 6235), (111, 6301), (116, 6322), (129, 6364), (136, 6388), (137, 6391), (139, 6406), (147, 6439),

Gene: LilBandit_8 Start: 6096, Stop: 6443, Start Num: 54

Candidate Starts for LilBandit_8:
(38, 6033), (Start: 54 @6096 has 49 MA's), (66, 6126), (67, 6129), (79, 6171), (85, 6201), (90, 6213), (111, 6285), (116, 6306), (129, 6348), (137, 6375), (139, 6390), (147, 6423),

Gene: LilStuart_8 Start: 6905, Stop: 7243, Start Num: 52
Candidate Starts for LilStuart_8:
(Start: 52 @6905 has 230 MA's), (67, 6938), (142, 7202),

Gene: Lilo27_9 Start: 7302, Stop: 7631, Start Num: 52
Candidate Starts for Lilo27_9:
(7, 7005), (12, 7047), (33, 7206), (Start: 50 @7299 has 1 MA's), (Start: 52 @7302 has 230 MA's), (Start: 61 @7317 has 2 MA's), (132, 7554), (143, 7599),

Gene: LimaBean_9 Start: 7325, Stop: 7654, Start Num: 52
Candidate Starts for LimaBean_9:
(Start: 52 @7325 has 230 MA's), (Start: 61 @7340 has 2 MA's), (132, 7577), (143, 7622),

Gene: Litotes_12 Start: 9790, Stop: 10128, Start Num: 52
Candidate Starts for Litotes_12:
(Start: 52 @9790 has 230 MA's), (67, 9823),

Gene: LittleTokyo_10 Start: 7645, Stop: 7983, Start Num: 51
Candidate Starts for LittleTokyo_10:
(3, 7219), (10, 7372), (36, 7570), (40, 7594), (Start: 51 @7645 has 56 MA's), (69, 7690), (86, 7753), (93, 7771), (99, 7798), (111, 7834), (118, 7858), (132, 7903), (143, 7954), (148, 7969),

Gene: Loviatar_9 Start: 7578, Stop: 7907, Start Num: 52
Candidate Starts for Loviatar_9:
(7, 7281), (Start: 50 @7575 has 1 MA's), (Start: 52 @7578 has 230 MA's), (Start: 61 @7593 has 2 MA's), (123, 7803), (132, 7830), (134, 7839), (140, 7863), (143, 7875),

Gene: Lucy_8 Start: 6896, Stop: 7234, Start Num: 52
Candidate Starts for Lucy_8:
(Start: 52 @6896 has 230 MA's), (67, 6929), (142, 7193),

Gene: Lunar_11 Start: 7903, Stop: 8244, Start Num: 51
Candidate Starts for Lunar_11:
(27, 7771), (36, 7828), (Start: 51 @7903 has 56 MA's), (93, 8029), (99, 8056), (117, 8116), (118, 8119), (123, 8137), (132, 8164), (143, 8215),

Gene: Lynlen_9 Start: 7339, Stop: 7668, Start Num: 52
Candidate Starts for Lynlen_9:
(14, 7099), (33, 7243), (Start: 52 @7339 has 230 MA's), (Start: 61 @7354 has 2 MA's), (132, 7591), (143, 7636), (145, 7642),

Gene: Lysidious_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for Lysidious_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (68, 7001), (71, 7007), (79, 7037), (93, 7088), (109, 7148),

Gene: MEAK_8 Start: 6098, Stop: 6445, Start Num: 54
Candidate Starts for MEAK_8:

(38, 6035), (45, 6074), (Start: 54 @6098 has 49 MA's), (66, 6128), (67, 6131), (85, 6203), (90, 6215), (111, 6287), (116, 6308), (129, 6350), (137, 6377), (139, 6392), (147, 6425),

Gene: Makoto_8 Start: 6905, Stop: 7243, Start Num: 52
Candidate Starts for Makoto_8:
(Start: 52 @6905 has 230 MA's), (67, 6938), (142, 7202),

Gene: Malachai_9 Start: 6962, Stop: 7324, Start Num: 52
Candidate Starts for Malachai_9:
(4, 6626), (43, 6935), (Start: 52 @6962 has 230 MA's), (62, 6986), (68, 7004), (71, 7010), (79, 7040), (87, 7073), (93, 7091), (109, 7151),

Gene: MamaPearl_8 Start: 6949, Stop: 7287, Start Num: 52
Candidate Starts for MamaPearl_8:
(Start: 52 @6949 has 230 MA's), (67, 6982), (94, 7081), (142, 7246),

Gene: Maria1952_8 Start: 6925, Stop: 7263, Start Num: 52
Candidate Starts for Maria1952_8:
(Start: 52 @6925 has 230 MA's), (78, 6997), (110, 7108), (133, 7183), (135, 7192), (147, 7243),

Gene: MeganNoll_12 Start: 9820, Stop: 10158, Start Num: 52
Candidate Starts for MeganNoll_12:
(20, 9655), (Start: 52 @9820 has 230 MA's), (111, 10006), (135, 10087), (142, 10117),

Gene: Melba_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for Melba_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (68, 7001), (71, 7007), (79, 7037), (93, 7088), (109, 7148),

Gene: Mellie_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for Mellie_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (68, 7001), (71, 7007), (79, 7037), (87, 7070), (93, 7088), (109, 7148),

Gene: Melons_11 Start: 7903, Stop: 8244, Start Num: 51
Candidate Starts for Melons_11:
(27, 7771), (36, 7828), (Start: 51 @7903 has 56 MA's), (93, 8029), (99, 8056), (117, 8116), (118, 8119), (123, 8137), (132, 8164), (143, 8215),

Gene: Milomuff_10 Start: 7711, Stop: 8040, Start Num: 52
Candidate Starts for Milomuff_10:
(Start: 52 @7711 has 230 MA's), (Start: 61 @7726 has 2 MA's), (132, 7963), (143, 8008),

Gene: MintFen_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for MintFen_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (68, 7001), (71, 7007), (79, 7037), (93, 7088), (109, 7148),

Gene: Misaeng_12 Start: 9868, Stop: 10206, Start Num: 52
Candidate Starts for Misaeng_12:
(Start: 52 @9868 has 230 MA's), (112, 10057), (135, 10135), (142, 10165), (147, 10186),

Gene: MissRona_9 Start: 6835, Stop: 7194, Start Num: 52

Candidate Starts for MissRona_9:
(4, 6499), (Start: 52 @6835 has 230 MA's), (62, 6859), (68, 6877), (87, 6943), (93, 6961), (109, 7021),

Gene: Moki_8 Start: 6907, Stop: 7245, Start Num: 52
Candidate Starts for Moki_8:
(Start: 52 @6907 has 230 MA's), (67, 6940), (142, 7204),

Gene: Moyashi_8 Start: 6116, Stop: 6463, Start Num: 54
Candidate Starts for Moyashi_8:
(21, 5960), (24, 5966), (25, 5969), (26, 5972), (30, 6011), (34, 6020), (38, 6053), (Start: 54 @6116 has 49 MA's), (66, 6146), (67, 6149), (79, 6191), (85, 6221), (90, 6233), (111, 6305), (116, 6326), (129, 6368), (137, 6395), (139, 6410), (147, 6443),

Gene: MrAK_8 Start: 6125, Stop: 6472, Start Num: 54
Candidate Starts for MrAK_8:
(38, 6062), (Start: 54 @6125 has 49 MA's), (66, 6155), (67, 6158), (79, 6200), (85, 6230), (90, 6242), (111, 6314), (129, 6377), (137, 6404), (139, 6419), (147, 6452),

Gene: MrBoss_12 Start: 9790, Stop: 10128, Start Num: 52
Candidate Starts for MrBoss_12:
(Start: 52 @9790 has 230 MA's), (67, 9823),

Gene: MrGloopy_12 Start: 9753, Stop: 10091, Start Num: 52
Candidate Starts for MrGloopy_12:
(Start: 52 @9753 has 230 MA's), (135, 10020), (142, 10050),

Gene: MsUbiquitous_9 Start: 7302, Stop: 7631, Start Num: 52
Candidate Starts for MsUbiquitous_9:
(14, 7062), (33, 7206), (Start: 52 @7302 has 230 MA's), (Start: 61 @7317 has 2 MA's), (84, 7401), (132, 7554), (143, 7599), (145, 7605),

Gene: Murp_9 Start: 7000, Stop: 7362, Start Num: 52
Candidate Starts for Murp_9:
(4, 6664), (43, 6973), (Start: 52 @7000 has 230 MA's), (62, 7024), (71, 7048), (79, 7078), (87, 7111), (109, 7189),

Gene: Nancia_8 Start: 6905, Stop: 7243, Start Num: 52
Candidate Starts for Nancia_8:
(Start: 52 @6905 has 230 MA's), (67, 6938), (142, 7202),

Gene: Neroxid_9 Start: 5943, Stop: 6326, Start Num: 42
Candidate Starts for Neroxid_9:
(42, 5943), (Start: 50 @5973 has 1 MA's), (62, 5997), (71, 6021), (75, 6036), (90, 6093), (105, 6144), (107, 6150), (114, 6180), (122, 6207), (124, 6210), (132, 6237), (143, 6294),

Gene: Nesbitt_9 Start: 7263, Stop: 7604, Start Num: 52
Candidate Starts for Nesbitt_9:
(Start: 52 @7263 has 230 MA's), (59, 7275), (123, 7497), (127, 7512), (143, 7572), (150, 7593),

Gene: Niblet_10 Start: 7688, Stop: 8029, Start Num: 51
Candidate Starts for Niblet_10:
(27, 7556), (36, 7613), (49, 7685), (Start: 51 @7688 has 56 MA's), (Start: 54 @7691 has 49 MA's), (69, 7733), (86, 7796), (88, 7799), (93, 7814), (123, 7922), (132, 7949), (136, 7964), (137, 7967), (143,

8000),

Gene: Nicky22_10 Start: 7773, Stop: 8102, Start Num: 52
Candidate Starts for Nicky22_10:
(14, 7533), (33, 7677), (Start: 52 @7773 has 230 MA's), (Start: 61 @7788 has 2 MA's), (84, 7872), (121, 7995), (132, 8025), (143, 8070),

Gene: Nubia_12 Start: 9782, Stop: 10120, Start Num: 52
Candidate Starts for Nubia_12:
(Start: 52 @9782 has 230 MA's), (94, 9914), (112, 9971), (133, 10040), (135, 10049), (142, 10079),

Gene: OMalley_8 Start: 6923, Stop: 7261, Start Num: 52
Candidate Starts for OMalley_8:
(Start: 52 @6923 has 230 MA's), (67, 6956), (78, 6995), (100, 7076), (133, 7181), (135, 7190),

Gene: Obliviate_9 Start: 6983, Stop: 7345, Start Num: 52
Candidate Starts for Obliviate_9:
(4, 6647), (43, 6956), (Start: 52 @6983 has 230 MA's), (62, 7007), (71, 7031), (79, 7061), (87, 7094), (93, 7112), (109, 7172),

Gene: Olliecat_9 Start: 7556, Stop: 7885, Start Num: 52
Candidate Starts for Olliecat_9:
(Start: 52 @7556 has 230 MA's), (Start: 61 @7571 has 2 MA's), (72, 7604), (74, 7610), (80, 7631), (108, 7727), (132, 7808), (140, 7841),

Gene: Oppalora_9 Start: 7312, Stop: 7650, Start Num: 51
Candidate Starts for Oppalora_9:
(8, 7018), (17, 7105), (28, 7189), (41, 7273), (Start: 51 @7312 has 56 MA's), (69, 7357), (77, 7381), (88, 7423), (93, 7438), (106, 7483), (108, 7489), (117, 7522), (132, 7570), (137, 7588),

Gene: Orcanus_10 Start: 7692, Stop: 8033, Start Num: 51
Candidate Starts for Orcanus_10:
(Start: 51 @7692 has 56 MA's), (Start: 54 @7695 has 49 MA's), (69, 7737), (86, 7800), (88, 7803), (93, 7818), (123, 7926), (132, 7953), (143, 8004), (145, 8010),

Gene: OtsoOtso_10 Start: 7742, Stop: 8083, Start Num: 51
Candidate Starts for OtsoOtso_10:
(27, 7610), (36, 7667), (Start: 51 @7742 has 56 MA's), (93, 7868), (99, 7895), (117, 7955), (118, 7958), (123, 7976), (132, 8003), (143, 8054),

Gene: OurGirlNessie_8 Start: 6896, Stop: 7234, Start Num: 52
Candidate Starts for OurGirlNessie_8:
(Start: 52 @6896 has 230 MA's), (67, 6929), (142, 7193),

Gene: Ouroboros_8 Start: 6099, Stop: 6446, Start Num: 54
Candidate Starts for Ouroboros_8:
(38, 6036), (44, 6072), (45, 6075), (Start: 54 @6099 has 49 MA's), (66, 6129), (67, 6132), (85, 6204), (90, 6216), (111, 6288), (116, 6309), (129, 6351), (137, 6378), (139, 6393), (147, 6426),

Gene: Oxynfrius_12 Start: 9795, Stop: 10133, Start Num: 52
Candidate Starts for Oxynfrius_12:
(Start: 52 @9795 has 230 MA's), (94, 9927), (112, 9984), (142, 10092),

Gene: P1.1_8 Start: 6099, Stop: 6446, Start Num: 54
Candidate Starts for P1.1_8:
(21, 5943), (24, 5949), (25, 5952), (26, 5955), (30, 5994), (34, 6003), (38, 6036), (Start: 54 @6099 has 49 MA's), (67, 6132), (85, 6204), (90, 6216), (111, 6288), (116, 6309), (129, 6351), (136, 6375), (137, 6378), (139, 6393), (147, 6426),

Gene: P100.1_8 Start: 6089, Stop: 6436, Start Num: 54
Candidate Starts for P100.1_8:
(38, 6026), (Start: 54 @6089 has 49 MA's), (66, 6119), (67, 6122), (79, 6164), (85, 6194), (90, 6206), (111, 6278), (129, 6341), (137, 6368), (139, 6383), (147, 6416),

Gene: P100A_8 Start: 6111, Stop: 6458, Start Num: 54
Candidate Starts for P100A_8:
(35, 6027), (38, 6048), (44, 6084), (45, 6087), (Start: 54 @6111 has 49 MA's), (66, 6141), (67, 6144), (85, 6216), (90, 6228), (95, 6246), (111, 6300), (112, 6303), (129, 6363), (136, 6387), (137, 6390), (139, 6405), (147, 6438),

Gene: P100D_8 Start: 6093, Stop: 6440, Start Num: 54
Candidate Starts for P100D_8:
(38, 6030), (Start: 54 @6093 has 49 MA's), (66, 6123), (67, 6126), (79, 6168), (85, 6198), (90, 6210), (111, 6282), (129, 6345), (136, 6369), (137, 6372), (139, 6387), (147, 6420),

Gene: P101A_8 Start: 6092, Stop: 6439, Start Num: 54
Candidate Starts for P101A_8:
(21, 5936), (24, 5942), (25, 5945), (26, 5948), (30, 5987), (34, 5996), (38, 6029), (Start: 54 @6092 has 49 MA's), (66, 6122), (67, 6125), (79, 6167), (85, 6197), (90, 6209), (111, 6281), (129, 6344), (136, 6368), (137, 6371), (139, 6386), (147, 6419),

Gene: P104A_8 Start: 6094, Stop: 6441, Start Num: 54
Candidate Starts for P104A_8:
(38, 6031), (Start: 54 @6094 has 49 MA's), (66, 6124), (67, 6127), (79, 6169), (85, 6199), (90, 6211), (111, 6283), (129, 6346), (137, 6373), (139, 6388), (147, 6421),

Gene: P104B_8 Start: 6098, Stop: 6445, Start Num: 54
Candidate Starts for P104B_8:
(38, 6035), (Start: 54 @6098 has 49 MA's), (66, 6128), (67, 6131), (85, 6203), (90, 6215), (111, 6287), (116, 6308), (129, 6350), (136, 6374), (137, 6377), (139, 6392), (147, 6425),

Gene: P105_8 Start: 6088, Stop: 6435, Start Num: 54
Candidate Starts for P105_8:
(38, 6025), (Start: 54 @6088 has 49 MA's), (66, 6118), (67, 6121), (79, 6163), (85, 6193), (90, 6205), (111, 6277), (116, 6298), (128, 6337), (129, 6340), (136, 6364), (137, 6367), (139, 6382), (147, 6415),

Gene: P106A_8 Start: 6116, Stop: 6463, Start Num: 54
Candidate Starts for P106A_8:
(21, 5960), (24, 5966), (25, 5969), (26, 5972), (34, 6020), (38, 6053), (Start: 54 @6116 has 49 MA's), (66, 6146), (67, 6149), (79, 6191), (85, 6221), (90, 6233), (111, 6305), (116, 6326), (129, 6368), (137, 6395), (139, 6410), (147, 6443),

Gene: P106C_8 Start: 6116, Stop: 6463, Start Num: 54
Candidate Starts for P106C_8:
(21, 5960), (24, 5966), (25, 5969), (26, 5972), (34, 6020), (38, 6053), (Start: 54 @6116 has 49 MA's), (66, 6146), (67, 6149), (79, 6191), (85, 6221), (90, 6233), (111, 6305), (116, 6326), (129, 6368), (137,

6395), (139, 6410), (147, 6443),

Gene: P106I_8 Start: 6116, Stop: 6463, Start Num: 54
Candidate Starts for P106I_8:
(21, 5960), (24, 5966), (25, 5969), (26, 5972), (34, 6020), (38, 6053), (Start: 54 @6116 has 49 MA's), (66, 6146), (67, 6149), (79, 6191), (85, 6221), (90, 6233), (111, 6305), (116, 6326), (129, 6368), (137, 6395), (139, 6410), (147, 6443),

Gene: P106L_8 Start: 6116, Stop: 6463, Start Num: 54
Candidate Starts for P106L_8:
(21, 5960), (24, 5966), (25, 5969), (26, 5972), (34, 6020), (38, 6053), (Start: 54 @6116 has 49 MA's), (66, 6146), (67, 6149), (79, 6191), (85, 6221), (90, 6233), (111, 6305), (116, 6326), (129, 6368), (137, 6395), (139, 6410), (147, 6443),

Gene: P106M_8 Start: 6116, Stop: 6463, Start Num: 54
Candidate Starts for P106M_8:
(21, 5960), (24, 5966), (25, 5969), (26, 5972), (34, 6020), (38, 6053), (Start: 54 @6116 has 49 MA's), (66, 6146), (67, 6149), (79, 6191), (85, 6221), (90, 6233), (111, 6305), (116, 6326), (129, 6368), (137, 6395), (139, 6410), (147, 6443),

Gene: P107A_8 Start: 6102, Stop: 6449, Start Num: 54
Candidate Starts for P107A_8:
(38, 6039), (45, 6078), (Start: 54 @6102 has 49 MA's), (66, 6132), (67, 6135), (85, 6207), (90, 6219), (95, 6237), (111, 6291), (112, 6294), (116, 6312), (129, 6354), (136, 6378), (137, 6381), (139, 6396), (147, 6429),

Gene: P107C_8 Start: 6098, Stop: 6445, Start Num: 54
Candidate Starts for P107C_8:
(38, 6035), (Start: 54 @6098 has 49 MA's), (66, 6128), (67, 6131), (79, 6173), (85, 6203), (90, 6215), (111, 6287), (116, 6308), (129, 6350), (136, 6374), (137, 6377), (139, 6392), (147, 6425),

Gene: P108C_8 Start: 6102, Stop: 6449, Start Num: 54
Candidate Starts for P108C_8:
(38, 6039), (Start: 54 @6102 has 49 MA's), (66, 6132), (67, 6135), (79, 6177), (90, 6219), (111, 6291), (116, 6312), (129, 6354), (136, 6378), (137, 6381), (139, 6396), (147, 6429),

Gene: P14.4_8 Start: 6093, Stop: 6440, Start Num: 54
Candidate Starts for P14.4_8:
(38, 6030), (Start: 54 @6093 has 49 MA's), (66, 6123), (67, 6126), (79, 6168), (85, 6198), (90, 6210), (111, 6282), (116, 6303), (129, 6345), (137, 6372), (139, 6387), (147, 6420),

Gene: P9.1_8 Start: 6091, Stop: 6438, Start Num: 54
Candidate Starts for P9.1_8:
(Start: 54 @6091 has 49 MA's), (66, 6121), (67, 6124), (79, 6166), (85, 6196), (90, 6208), (111, 6280), (116, 6301), (129, 6343), (136, 6367), (137, 6370), (139, 6385), (147, 6418),

Gene: PA6_8 Start: 6101, Stop: 6448, Start Num: 54
Candidate Starts for PA6_8:
(38, 6038), (44, 6074), (Start: 54 @6101 has 49 MA's), (66, 6131), (67, 6134), (79, 6176), (85, 6206), (90, 6218), (111, 6290), (116, 6311), (128, 6350), (137, 6380), (139, 6395), (147, 6428),

Gene: PAD20_8 Start: 6099, Stop: 6446, Start Num: 54
Candidate Starts for PAD20_8:

(Start: 54 @6099 has 49 MA's), (66, 6129), (67, 6132), (85, 6204), (90, 6216), (111, 6288), (129, 6351), (136, 6375), (137, 6378), (139, 6393), (147, 6426),

Gene: PAS50_8 Start: 6096, Stop: 6443, Start Num: 54
Candidate Starts for PAS50_8:
(38, 6033), (Start: 54 @6096 has 49 MA's), (66, 6126), (67, 6129), (79, 6171), (85, 6201), (90, 6213), (95, 6231), (111, 6285), (116, 6306), (129, 6348), (136, 6372), (137, 6375), (139, 6390), (147, 6423),

Gene: PCoral7_9 Start: 6937, Stop: 7305, Start Num: 52
Candidate Starts for PCoral7_9:
(4, 6607), (Start: 52 @6937 has 230 MA's), (63, 6961), (66, 6967), (83, 7039), (87, 7054), (93, 7072), (109, 7132), (111, 7141),

Gene: PHL010M04_08 Start: 6091, Stop: 6438, Start Num: 54
Candidate Starts for PHL010M04_08:
(21, 5935), (24, 5941), (26, 5947), (30, 5986), (34, 5995), (38, 6028), (Start: 54 @6091 has 49 MA's), (66, 6121), (67, 6124), (85, 6196), (90, 6208), (95, 6226), (111, 6280), (129, 6343), (136, 6367), (137, 6370), (139, 6385), (147, 6418),

Gene: PHL037M02_08 Start: 6097, Stop: 6444, Start Num: 54
Candidate Starts for PHL037M02_08:
(38, 6034), (Start: 54 @6097 has 49 MA's), (66, 6127), (67, 6130), (76, 6160), (85, 6202), (90, 6214), (111, 6286), (116, 6307), (128, 6346), (129, 6349), (137, 6376), (139, 6391), (147, 6424),

Gene: PHL060L00_08 Start: 6089, Stop: 6436, Start Num: 54
Candidate Starts for PHL060L00_08:
(21, 5933), (24, 5939), (25, 5942), (26, 5945), (30, 5984), (34, 5993), (38, 6026), (Start: 54 @6089 has 49 MA's), (66, 6119), (67, 6122), (79, 6164), (85, 6194), (90, 6206), (111, 6278), (116, 6299), (129, 6341), (136, 6365), (137, 6368), (139, 6383), (147, 6416),

Gene: PHL067M10_08 Start: 6093, Stop: 6440, Start Num: 54
Candidate Starts for PHL067M10_08:
(38, 6030), (Start: 54 @6093 has 49 MA's), (66, 6123), (67, 6126), (79, 6168), (85, 6198), (90, 6210), (111, 6282), (128, 6342), (129, 6345), (137, 6372), (139, 6387), (147, 6420),

Gene: PHL071N05_08 Start: 6095, Stop: 6442, Start Num: 54
Candidate Starts for PHL071N05_08:
(38, 6032), (Start: 54 @6095 has 49 MA's), (66, 6125), (67, 6128), (79, 6170), (90, 6212), (111, 6284), (116, 6305), (129, 6347), (136, 6371), (137, 6374), (139, 6389), (147, 6422),

Gene: PHL111M01_08 Start: 6099, Stop: 6446, Start Num: 54
Candidate Starts for PHL111M01_08:
(38, 6036), (Start: 54 @6099 has 49 MA's), (66, 6129), (67, 6132), (85, 6204), (90, 6216), (111, 6288), (129, 6351), (136, 6375), (137, 6378), (139, 6393), (147, 6426),

Gene: PHL112N00_08 Start: 6099, Stop: 6446, Start Num: 54
Candidate Starts for PHL112N00_08:
(38, 6036), (39, 6039), (Start: 54 @6099 has 49 MA's), (66, 6129), (67, 6132), (85, 6204), (90, 6216), (111, 6288), (116, 6309), (128, 6348), (129, 6351), (137, 6378), (139, 6393), (147, 6426),

Gene: PHL113M01_08 Start: 6099, Stop: 6446, Start Num: 54
Candidate Starts for PHL113M01_08:

(38, 6036), (Start: 54 @6099 has 49 MA's), (66, 6129), (67, 6132), (85, 6204), (90, 6216), (111, 6288), (116, 6309), (129, 6351), (137, 6378), (139, 6393), (147, 6426),

Gene: PHL114L00_08 Start: 6098, Stop: 6445, Start Num: 54
Candidate Starts for PHL114L00_08:
(23, 5945), (25, 5951), (26, 5954), (30, 5993), (31, 5996), (38, 6035), (45, 6074), (Start: 54 @6098 has 49 MA's), (64, 6125), (66, 6128), (67, 6131), (79, 6173), (85, 6203), (90, 6215), (129, 6350), (137, 6377), (139, 6392), (147, 6425),

Gene: PartyCup_12 Start: 9837, Stop: 10175, Start Num: 52
Candidate Starts for PartyCup_12:
(Start: 52 @9837 has 230 MA's), (67, 9870),

Gene: PastaFagioli_9 Start: 7400, Stop: 7729, Start Num: 52
Candidate Starts for PastaFagioli_9:
(Start: 52 @7400 has 230 MA's), (Start: 61 @7415 has 2 MA's), (121, 7622), (132, 7652), (140, 7685), (143, 7697),

Gene: Pecas_9 Start: 7323, Stop: 7652, Start Num: 52
Candidate Starts for Pecas_9:
(14, 7083), (33, 7227), (Start: 52 @7323 has 230 MA's), (Start: 61 @7338 has 2 MA's), (84, 7422), (132, 7575), (143, 7620), (145, 7626),

Gene: Pelletreau_11 Start: 7898, Stop: 8239, Start Num: 51
Candidate Starts for Pelletreau_11:
(Start: 51 @7898 has 56 MA's), (Start: 54 @7901 has 49 MA's), (69, 7943), (86, 8006), (88, 8009), (93, 8024), (123, 8132), (132, 8159), (143, 8210),

Gene: Petra_9 Start: 6865, Stop: 7227, Start Num: 52
Candidate Starts for Petra_9:
(4, 6529), (6, 6553), (Start: 52 @6865 has 230 MA's), (62, 6889), (71, 6913), (79, 6943), (87, 6976), (93, 6994), (109, 7054),

Gene: PhigPhack_9 Start: 7354, Stop: 7683, Start Num: 52
Candidate Starts for PhigPhack_9:
(Start: 52 @7354 has 230 MA's), (Start: 61 @7369 has 2 MA's), (132, 7606), (143, 7651),

Gene: PhirstandPhine_11 Start: 7903, Stop: 8244, Start Num: 51
Candidate Starts for PhirstandPhine_11:
(27, 7771), (36, 7828), (Start: 51 @7903 has 56 MA's), (93, 8029), (99, 8056), (117, 8116), (118, 8119), (123, 8137), (132, 8164), (143, 8215),

Gene: Phisb_9 Start: 7316, Stop: 7645, Start Num: 52
Candidate Starts for Phisb_9:
(14, 7076), (33, 7220), (Start: 52 @7316 has 230 MA's), (Start: 61 @7331 has 2 MA's), (132, 7568), (143, 7613), (145, 7619),

Gene: PhluffyCoco_9 Start: 7312, Stop: 7650, Start Num: 51
Candidate Starts for PhluffyCoco_9:
(8, 7018), (17, 7105), (28, 7189), (41, 7273), (Start: 51 @7312 has 56 MA's), (69, 7357), (77, 7381), (88, 7423), (93, 7438), (106, 7483), (108, 7489), (117, 7522), (132, 7570),

Gene: PhrostedPhlake_9 Start: 7040, Stop: 7402, Start Num: 52

Candidate Starts for PhrostedPhlake_9:
(4, 6704), (Start: 52 @7040 has 230 MA's), (62, 7064), (71, 7088), (79, 7118), (87, 7151), (93, 7169), (109, 7229),

Gene: Pineda_11 Start: 7903, Stop: 8244, Start Num: 51
Candidate Starts for Pineda_11:
(27, 7771), (36, 7828), (Start: 51 @7903 has 56 MA's), (93, 8029), (99, 8056), (117, 8116), (118, 8119), (123, 8137), (132, 8164), (143, 8215),

Gene: PinkFriday_8 Start: 6926, Stop: 7264, Start Num: 52
Candidate Starts for PinkFriday_8:
(2, 6494), (12, 6674), (13, 6680), (Start: 52 @6926 has 230 MA's), (78, 6998), (81, 7013), (133, 7184), (147, 7244),

Gene: Pipp_10 Start: 7195, Stop: 7557, Start Num: 52
Candidate Starts for Pipp_10:
(11, 6931), (29, 7093), (45, 7174), (Start: 52 @7195 has 230 MA's), (62, 7219), (71, 7243), (79, 7273), (87, 7306), (93, 7324), (109, 7384), (118, 7423),

Gene: Pirate_8 Start: 6091, Stop: 6438, Start Num: 54
Candidate Starts for Pirate_8:
(38, 6028), (Start: 54 @6091 has 49 MA's), (66, 6121), (67, 6124), (79, 6166), (90, 6208), (111, 6280), (116, 6301), (129, 6343), (136, 6367), (137, 6370), (139, 6385), (147, 6418),

Gene: PitaDog_8 Start: 6896, Stop: 7234, Start Num: 52
Candidate Starts for PitaDog_8:
(Start: 52 @6896 has 230 MA's), (67, 6929), (142, 7193),

Gene: Polka_10 Start: 7742, Stop: 8083, Start Num: 51
Candidate Starts for Polka_10:
(27, 7610), (36, 7667), (Start: 51 @7742 has 56 MA's), (93, 7868), (99, 7895), (117, 7955), (118, 7958), (123, 7976), (132, 8003), (143, 8054),

Gene: PondAmelia_10 Start: 7567, Stop: 7896, Start Num: 52
Candidate Starts for PondAmelia_10:
(7, 7270), (Start: 50 @7564 has 1 MA's), (Start: 52 @7567 has 230 MA's), (Start: 61 @7582 has 2 MA's), (132, 7819), (143, 7864),

Gene: Potatoes_12 Start: 9814, Stop: 10152, Start Num: 52
Candidate Starts for Potatoes_12:
(Start: 52 @9814 has 230 MA's), (111, 10000), (135, 10081), (142, 10111),

Gene: Preamble_8 Start: 6906, Stop: 7244, Start Num: 52
Candidate Starts for Preamble_8:
(2, 6477), (12, 6657), (13, 6663), (Start: 52 @6906 has 230 MA's), (142, 7203),

Gene: PrincePatrick_9 Start: 6938, Stop: 7306, Start Num: 52
Candidate Starts for PrincePatrick_9:
(Start: 52 @6938 has 230 MA's), (63, 6962), (66, 6968), (83, 7040), (87, 7055), (93, 7073), (96, 7088), (109, 7133), (111, 7142),

Gene: Procrass1_8 Start: 6098, Stop: 6445, Start Num: 54
Candidate Starts for Procrass1_8:

(38, 6035), (Start: 54 @6098 has 49 MA's), (66, 6128), (67, 6131), (85, 6203), (90, 6215), (111, 6287), (116, 6308), (129, 6350), (136, 6374), (137, 6377), (139, 6392), (147, 6425),

Gene: Pterodactyl_8 Start: 6897, Stop: 7235, Start Num: 52
Candidate Starts for Pterodactyl_8:
(Start: 52 @6897 has 230 MA's), (67, 6930), (142, 7194),

Gene: Pumancara_8 Start: 6925, Stop: 7263, Start Num: 52
Candidate Starts for Pumancara_8:
(2, 6493), (12, 6673), (13, 6679), (Start: 52 @6925 has 230 MA's), (78, 6997), (133, 7183), (147, 7243),

Gene: QMacho_10 Start: 7806, Stop: 8135, Start Num: 52
Candidate Starts for QMacho_10:
(14, 7566), (33, 7710), (Start: 52 @7806 has 230 MA's), (Start: 61 @7821 has 2 MA's), (84, 7905), (132, 8058), (143, 8103), (145, 8109),

Gene: QueenBey_8 Start: 6092, Stop: 6439, Start Num: 54
Candidate Starts for QueenBey_8:
(25, 5945), (26, 5948), (30, 5987), (31, 5990), (34, 5996), (35, 6008), (38, 6029), (45, 6068), (Start: 54 @6092 has 49 MA's), (66, 6122), (67, 6125), (76, 6155), (85, 6197), (90, 6209), (95, 6227), (111, 6281), (129, 6344), (136, 6368), (137, 6371), (139, 6386), (147, 6419),

Gene: Quenya_10 Start: 7452, Stop: 7781, Start Num: 52
Candidate Starts for Quenya_10:
(1, 7023), (7, 7155), (Start: 52 @7452 has 230 MA's), (Start: 61 @7467 has 2 MA's), (73, 7503), (100, 7602), (121, 7674), (137, 7722), (140, 7737),

Gene: RAP15_12 Start: 9820, Stop: 10158, Start Num: 52
Candidate Starts for RAP15_12:
(20, 9655), (Start: 52 @9820 has 230 MA's), (111, 10006), (135, 10087), (142, 10117),

Gene: Rattail_9 Start: 7363, Stop: 7701, Start Num: 51
Candidate Starts for Rattail_9:
(Start: 51 @7363 has 56 MA's), (69, 7408), (77, 7432), (88, 7474), (93, 7489), (106, 7534), (108, 7540), (117, 7573), (132, 7621), (137, 7639),

Gene: Raya_9 Start: 5943, Stop: 6326, Start Num: 42
Candidate Starts for Raya_9:
(42, 5943), (Start: 50 @5973 has 1 MA's), (62, 5997), (71, 6021), (75, 6036), (90, 6093), (105, 6144), (107, 6150), (114, 6180), (122, 6207), (124, 6210), (132, 6237), (143, 6294),

Gene: RcigaStruga_12 Start: 9803, Stop: 10141, Start Num: 52
Candidate Starts for RcigaStruga_12:
(Start: 52 @9803 has 230 MA's), (63, 9827), (112, 9992), (135, 10070), (142, 10100), (147, 10121),

Gene: RedFox_9 Start: 7312, Stop: 7650, Start Num: 51
Candidate Starts for RedFox_9:
(8, 7018), (17, 7105), (28, 7189), (41, 7273), (Start: 51 @7312 has 56 MA's), (69, 7357), (77, 7381), (88, 7423), (93, 7438), (106, 7483), (108, 7489), (117, 7522), (132, 7570), (137, 7588),

Gene: Renna12_10 Start: 7512, Stop: 7850, Start Num: 51
Candidate Starts for Renna12_10:

(28, 7389), (31, 7413), (Start: 51 @7512 has 56 MA's), (77, 7581), (88, 7623), (93, 7638), (106, 7683), (117, 7722), (118, 7725), (120, 7734), (127, 7758), (132, 7770), (137, 7788),

Gene: Rileysaurus_8 Start: 6087, Stop: 6434, Start Num: 54
Candidate Starts for Rileysaurus_8:
(21, 5931), (26, 5943), (30, 5982), (31, 5985), (34, 5991), (38, 6024), (45, 6063), (Start: 54 @6087 has 49 MA's), (66, 6117), (67, 6120), (85, 6192), (90, 6204), (111, 6276), (129, 6339), (136, 6363), (137, 6366), (139, 6381), (147, 6414),

Gene: Riovina_8 Start: 6923, Stop: 7261, Start Num: 52
Candidate Starts for Riovina_8:
(Start: 52 @6923 has 230 MA's), (67, 6956), (78, 6995), (100, 7076), (133, 7181), (135, 7190),

Gene: Riverdale_12 Start: 9751, Stop: 10089, Start Num: 52
Candidate Starts for Riverdale_12:
(Start: 52 @9751 has 230 MA's), (111, 9937), (135, 10018), (142, 10048),

Gene: Rollins_8 Start: 7153, Stop: 7485, Start Num: 52
Candidate Starts for Rollins_8:
(7, 6856), (Start: 52 @7153 has 230 MA's), (60, 7165), (Start: 61 @7168 has 2 MA's), (72, 7204), (78, 7225), (79, 7228), (108, 7327), (132, 7408),

Gene: Rona_9 Start: 7553, Stop: 7882, Start Num: 52
Candidate Starts for Rona_9:
(7, 7256), (33, 7457), (Start: 50 @7550 has 1 MA's), (Start: 52 @7553 has 230 MA's), (Start: 61 @7568 has 2 MA's), (79, 7625), (99, 7700), (121, 7775), (132, 7805), (143, 7850),

Gene: Rowa_9 Start: 7020, Stop: 7364, Start Num: 52
Candidate Starts for Rowa_9:
(Start: 52 @7020 has 230 MA's), (91, 7143), (150, 7353),

Gene: Rozby_12 Start: 9751, Stop: 10089, Start Num: 52
Candidate Starts for Rozby_12:
(Start: 52 @9751 has 230 MA's), (111, 9937), (135, 10018), (142, 10048),

Gene: Ruchi_10 Start: 7974, Stop: 8336, Start Num: 51
Candidate Starts for Ruchi_10:
(27, 7842), (Start: 51 @7974 has 56 MA's), (63, 8001), (83, 8070), (85, 8079), (101, 8136), (106, 8166), (111, 8184), (115, 8202), (119, 8211), (136, 8271),

Gene: RunningOnE_66 Start: 33386, Stop: 33715, Start Num: 56
Candidate Starts for RunningOnE_66:
(15, 33164), (22, 33224), (Start: 56 @33386 has 2 MA's), (83, 33473), (98, 33524), (123, 33608),

Gene: SKKY_8 Start: 6123, Stop: 6470, Start Num: 54
Candidate Starts for SKKY_8:
(21, 5967), (24, 5973), (25, 5976), (26, 5979), (30, 6018), (34, 6027), (38, 6060), (Start: 54 @6123 has 49 MA's), (66, 6153), (67, 6156), (79, 6198), (85, 6228), (90, 6240), (111, 6312), (116, 6333), (129, 6375), (137, 6402), (139, 6417), (147, 6450),

Gene: SamW_9 Start: 6861, Stop: 7205, Start Num: 57
Candidate Starts for SamW_9:

(9, 6570), (Start: 57 @6861 has 9 MA's), (79, 6927), (87, 6960), (93, 6978), (95, 6990), (111, 7047), (127, 7110), (142, 7164), (147, 7185), (149, 7191),

Gene: Samba_9 Start: 6960, Stop: 7322, Start Num: 52
Candidate Starts for Samba_9:
(43, 6933), (Start: 52 @6960 has 230 MA's), (62, 6984), (71, 7008), (79, 7038), (87, 7071), (93, 7089), (109, 7149),

Gene: SanaSana_10 Start: 7567, Stop: 7896, Start Num: 52
Candidate Starts for SanaSana_10:
(7, 7270), (Start: 50 @7564 has 1 MA's), (Start: 52 @7567 has 230 MA's), (Start: 61 @7582 has 2 MA's), (121, 7789), (132, 7819), (143, 7864),

Gene: SansAfet_9 Start: 7336, Stop: 7665, Start Num: 52
Candidate Starts for SansAfet_9:
(Start: 52 @7336 has 230 MA's), (Start: 61 @7351 has 2 MA's), (132, 7588), (143, 7633),

Gene: Sapo_7 Start: 6047, Stop: 6409, Start Num: 54
Candidate Starts for Sapo_7:
(Start: 54 @6047 has 49 MA's), (62, 6068), (134, 6332),

Gene: SarBear_9 Start: 7299, Stop: 7628, Start Num: 52
Candidate Starts for SarBear_9:
(14, 7059), (33, 7203), (Start: 52 @7299 has 230 MA's), (Start: 61 @7314 has 2 MA's), (84, 7398), (85, 7401), (121, 7521), (132, 7551), (134, 7560), (143, 7596),

Gene: Savage2526_12 Start: 9814, Stop: 10152, Start Num: 52
Candidate Starts for Savage2526_12:
(20, 9649), (Start: 52 @9814 has 230 MA's), (111, 10000), (135, 10081), (142, 10111),

Gene: Schmidt_11 Start: 7862, Stop: 8224, Start Num: 52
Candidate Starts for Schmidt_11:
(Start: 52 @7862 has 230 MA's), (66, 7895), (83, 7964), (87, 7979), (90, 7991), (93, 7997), (102, 8036), (113, 8078), (123, 8108), (132, 8135), (135, 8147), (141, 8183), (143, 8192),

Gene: Scuttle_12 Start: 9820, Stop: 10158, Start Num: 52
Candidate Starts for Scuttle_12:
(20, 9655), (Start: 52 @9820 has 230 MA's), (111, 10006), (135, 10087), (142, 10117),

Gene: Sergei_8 Start: 6925, Stop: 7263, Start Num: 52
Candidate Starts for Sergei_8:
(Start: 52 @6925 has 230 MA's), (78, 6997), (110, 7108), (133, 7183), (135, 7192), (147, 7243),

Gene: Shambre1_10 Start: 8182, Stop: 8541, Start Num: 65
Candidate Starts for Shambre1_10:
(5, 7831), (46, 8137), (Start: 65 @8182 has 1 MA's), (81, 8245), (92, 8284), (98, 8314), (106, 8356), (145, 8509),

Gene: Sharkboy_9 Start: 7552, Stop: 7881, Start Num: 52
Candidate Starts for Sharkboy_9:
(7, 7255), (33, 7456), (Start: 50 @7549 has 1 MA's), (Start: 52 @7552 has 230 MA's), (Start: 61 @7567 has 2 MA's), (79, 7624), (99, 7699), (121, 7774), (132, 7804), (143, 7849),

Gene: Shayna_8 Start: 7158, Stop: 7490, Start Num: 52
Candidate Starts for Shayna_8:
(33, 7062), (Start: 52 @7158 has 230 MA's), (Start: 61 @7176 has 2 MA's), (78, 7230), (80, 7236), (89, 7272), (127, 7401), (143, 7458),

Gene: Shen_11 Start: 7899, Stop: 8240, Start Num: 51
Candidate Starts for Shen_11:
(Start: 51 @7899 has 56 MA's), (Start: 54 @7902 has 49 MA's), (69, 7944), (86, 8007), (88, 8010), (93, 8025), (123, 8133), (132, 8160), (143, 8211),

Gene: SirBeanington_9 Start: 7325, Stop: 7654, Start Num: 52
Candidate Starts for SirBeanington_9:
(14, 7085), (33, 7229), (Start: 52 @7325 has 230 MA's), (Start: 61 @7340 has 2 MA's), (132, 7577), (143, 7622), (145, 7628),

Gene: Skyerus_9 Start: 5943, Stop: 6326, Start Num: 42
Candidate Starts for Skyerus_9:
(42, 5943), (Start: 50 @5973 has 1 MA's), (62, 5997), (71, 6021), (75, 6036), (90, 6093), (105, 6144), (107, 6150), (114, 6180), (122, 6207), (124, 6210), (132, 6237), (143, 6294),

Gene: Skylord_8 Start: 7093, Stop: 7425, Start Num: 52
Candidate Starts for Skylord_8:
(7, 6796), (Start: 52 @7093 has 230 MA's), (60, 7105), (Start: 61 @7108 has 2 MA's), (72, 7144), (78, 7165), (79, 7168), (108, 7267), (132, 7348),

Gene: Slay_9 Start: 7775, Stop: 8104, Start Num: 52
Candidate Starts for Slay_9:
(14, 7535), (33, 7679), (Start: 52 @7775 has 230 MA's), (Start: 61 @7790 has 2 MA's), (84, 7874), (85, 7877), (121, 7997), (132, 8027), (134, 8036), (143, 8072),

Gene: Softsoap_9 Start: 7325, Stop: 7654, Start Num: 52
Candidate Starts for Softsoap_9:
(Start: 52 @7325 has 230 MA's), (Start: 61 @7340 has 2 MA's), (132, 7577), (143, 7622),

Gene: Soilmate_9 Start: 6858, Stop: 7220, Start Num: 52
Candidate Starts for Soilmate_9:
(4, 6522), (Start: 52 @6858 has 230 MA's), (62, 6882), (71, 6906), (79, 6936), (87, 6969), (93, 6987), (109, 7047),

Gene: Solea_10 Start: 7711, Stop: 8040, Start Num: 52
Candidate Starts for Solea_10:
(Start: 52 @7711 has 230 MA's), (Start: 61 @7726 has 2 MA's), (132, 7963), (143, 8008),

Gene: Solid_8 Start: 6099, Stop: 6446, Start Num: 54
Candidate Starts for Solid_8:
(38, 6036), (Start: 54 @6099 has 49 MA's), (66, 6129), (67, 6132), (79, 6174), (85, 6204), (90, 6216), (111, 6288), (116, 6309), (129, 6351), (136, 6375), (137, 6378), (139, 6393), (147, 6426),

Gene: Splinter_13 Start: 9406, Stop: 9765, Start Num: 52
Candidate Starts for Splinter_13:
(Start: 52 @9406 has 230 MA's), (63, 9433), (66, 9439), (79, 9481), (90, 9532), (103, 9580), (135, 9688), (141, 9724),

Gene: Spooks_54 Start: 31985, Stop: 32302, Start Num: 61
Candidate Starts for Spooks_54:
(Start: 57 @31976 has 9 MA's), (58, 31979), (Start: 61 @31985 has 2 MA's), (89, 32081), (111, 32156), (123, 32198), (132, 32225),

Gene: Squircle_9 Start: 7555, Stop: 7884, Start Num: 52
Candidate Starts for Squircle_9:
(Start: 52 @7555 has 230 MA's), (Start: 61 @7570 has 2 MA's), (72, 7603), (74, 7609), (80, 7630), (108, 7726), (132, 7807), (140, 7840),

Gene: StAB_9 Start: 6866, Stop: 7210, Start Num: 57
Candidate Starts for StAB_9:
(9, 6575), (Start: 57 @6866 has 9 MA's), (79, 6932), (87, 6965), (93, 6983), (95, 6995), (111, 7052), (125, 7106), (127, 7115), (142, 7169), (147, 7190), (149, 7196),

Gene: Stiles_9 Start: 6860, Stop: 7204, Start Num: 57
Candidate Starts for Stiles_9:
(9, 6569), (Start: 57 @6860 has 9 MA's), (79, 6926), (93, 6977), (95, 6989), (111, 7046), (125, 7100), (127, 7109), (142, 7163), (147, 7184), (149, 7190),

Gene: Stoor_9 Start: 7564, Stop: 7893, Start Num: 52
Candidate Starts for Stoor_9:
(7, 7267), (Start: 50 @7561 has 1 MA's), (Start: 52 @7564 has 230 MA's), (Start: 61 @7579 has 2 MA's), (121, 7786), (132, 7816), (143, 7861),

Gene: Stormborn_8 Start: 6095, Stop: 6442, Start Num: 54
Candidate Starts for Stormborn_8:
(38, 6032), (Start: 54 @6095 has 49 MA's), (66, 6125), (67, 6128), (85, 6200), (90, 6212), (111, 6284), (116, 6305), (129, 6347), (136, 6371), (137, 6374), (139, 6389), (147, 6422),

Gene: Stromboli_9 Start: 7565, Stop: 7894, Start Num: 52
Candidate Starts for Stromboli_9:
(Start: 50 @7562 has 1 MA's), (Start: 52 @7565 has 230 MA's), (Start: 61 @7580 has 2 MA's), (121, 7787), (123, 7790), (132, 7817), (143, 7862),

Gene: StuartMinion_9 Start: 7338, Stop: 7676, Start Num: 51
Candidate Starts for StuartMinion_9:
(28, 7215), (36, 7263), (Start: 51 @7338 has 56 MA's), (77, 7407), (86, 7446), (88, 7449), (93, 7464), (117, 7548), (132, 7596), (148, 7662),

Gene: Success_55 Start: 31095, Stop: 31421, Start Num: 57
Candidate Starts for Success_55:
(Start: 57 @31095 has 9 MA's), (Start: 61 @31104 has 2 MA's), (67, 31122), (83, 31182), (111, 31275), (123, 31317),

Gene: SunnyD_8 Start: 7158, Stop: 7490, Start Num: 52
Candidate Starts for SunnyD_8:
(33, 7062), (Start: 52 @7158 has 230 MA's), (Start: 61 @7176 has 2 MA's), (78, 7230), (80, 7236), (89, 7272), (127, 7401), (143, 7458),

Gene: Supakev_8 Start: 6925, Stop: 7263, Start Num: 52
Candidate Starts for Supakev_8:
(2, 6493), (12, 6673), (13, 6679), (Start: 52 @6925 has 230 MA's), (78, 6997), (133, 7183), (147, 7243),

Gene: Supernova_8 Start: 6091, Stop: 6438, Start Num: 54
Candidate Starts for Supernova_8:
(38, 6028), (Start: 54 @6091 has 49 MA's), (66, 6121), (67, 6124), (79, 6166), (85, 6196), (90, 6208), (111, 6280), (116, 6301), (129, 6343), (136, 6367), (137, 6370), (139, 6385), (147, 6418),

Gene: Suppi_12 Start: 9837, Stop: 10175, Start Num: 52
Candidate Starts for Suppi_12:
(Start: 52 @9837 has 230 MA's), (67, 9870),

Gene: Swervy_9 Start: 7299, Stop: 7628, Start Num: 52
Candidate Starts for Swervy_9:
(14, 7059), (33, 7203), (Start: 52 @7299 has 230 MA's), (Start: 61 @7314 has 2 MA's), (84, 7398), (85, 7401), (121, 7521), (132, 7551), (134, 7560), (143, 7596),

Gene: TZGordon_15 Start: 9548, Stop: 9907, Start Num: 52
Candidate Starts for TZGordon_15:
(Start: 52 @9548 has 230 MA's), (63, 9575), (66, 9581), (79, 9623), (90, 9674), (103, 9722), (132, 9818), (135, 9830), (141, 9866),

Gene: TattModd_12 Start: 9814, Stop: 10152, Start Num: 52
Candidate Starts for TattModd_12:
(Start: 52 @9814 has 230 MA's), (111, 10000), (135, 10081), (142, 10111),

Gene: TaylorSipht_10 Start: 7777, Stop: 8118, Start Num: 51
Candidate Starts for TaylorSipht_10:
(12, 7525), (16, 7570), (33, 7684), (Start: 51 @7777 has 56 MA's), (Start: 54 @7780 has 49 MA's), (93, 7903), (99, 7930), (104, 7945), (123, 8011), (132, 8038), (136, 8053), (143, 8089),

Gene: Teagster_8 Start: 7158, Stop: 7490, Start Num: 52
Candidate Starts for Teagster_8:
(Start: 52 @7158 has 230 MA's), (Start: 61 @7176 has 2 MA's), (78, 7230), (80, 7236), (89, 7272), (127, 7401), (143, 7458),

Gene: Temper16_8 Start: 6925, Stop: 7263, Start Num: 52
Candidate Starts for Temper16_8:
(Start: 52 @6925 has 230 MA's), (78, 6997), (110, 7108), (133, 7183), (135, 7192), (147, 7243),

Gene: TinaLin_16 Start: 10120, Stop: 10479, Start Num: 52
Candidate Starts for TinaLin_16:
(Start: 52 @10120 has 230 MA's), (66, 10153), (71, 10168), (84, 10225), (90, 10246), (103, 10294), (104, 10297), (113, 10333), (130, 10384), (131, 10387), (132, 10390), (138, 10423), (146, 10456),

Gene: Toad24_11 Start: 7899, Stop: 8240, Start Num: 51
Candidate Starts for Toad24_11:
(Start: 51 @7899 has 56 MA's), (Start: 54 @7902 has 49 MA's), (69, 7944), (86, 8007), (88, 8010), (93, 8025), (123, 8133), (132, 8160), (143, 8211),

Gene: Toast_9 Start: 6937, Stop: 7305, Start Num: 52
Candidate Starts for Toast_9:
(4, 6607), (Start: 52 @6937 has 230 MA's), (63, 6961), (66, 6967), (83, 7039), (87, 7054), (93, 7072), (109, 7132), (111, 7141),

Gene: Troy_9 Start: 6861, Stop: 7205, Start Num: 57
Candidate Starts for Troy_9:
(9, 6570), (Start: 57 @6861 has 9 MA's), (79, 6927), (87, 6960), (93, 6978), (95, 6990), (111, 7047), (127, 7110), (142, 7164), (147, 7185), (149, 7191),

Gene: TukTuk_9 Start: 7299, Stop: 7628, Start Num: 52
Candidate Starts for TukTuk_9:
(33, 7203), (Start: 52 @7299 has 230 MA's), (Start: 61 @7314 has 2 MA's), (84, 7398), (132, 7551), (143, 7596), (145, 7602),

Gene: UmaThurman_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for UmaThurman_9:
(43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (71, 7007), (79, 7037), (87, 7070), (93, 7088), (109, 7148),

Gene: Urla_8 Start: 6952, Stop: 7290, Start Num: 52
Candidate Starts for Urla_8:
(Start: 52 @6952 has 230 MA's), (72, 7003), (86, 7060), (142, 7249),

Gene: Utz_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for Utz_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (68, 7001), (71, 7007), (79, 7037), (93, 7088), (109, 7148),

Gene: Vallejo_12 Start: 9752, Stop: 10090, Start Num: 52
Candidate Starts for Vallejo_12:
(Start: 52 @9752 has 230 MA's), (111, 9938), (142, 10049),

Gene: Vendetta_13 Start: 9406, Stop: 9765, Start Num: 52
Candidate Starts for Vendetta_13:
(Start: 52 @9406 has 230 MA's), (63, 9433), (66, 9439), (79, 9481), (90, 9532), (103, 9580), (135, 9688), (141, 9724),

Gene: Vitas_8 Start: 7093, Stop: 7425, Start Num: 52
Candidate Starts for Vitas_8:
(7, 6796), (Start: 52 @7093 has 230 MA's), (60, 7105), (Start: 61 @7108 has 2 MA's), (72, 7144), (78, 7165), (79, 7168), (108, 7267), (132, 7348),

Gene: Vulpecula_10 Start: 8050, Stop: 8412, Start Num: 51
Candidate Starts for Vulpecula_10:
(27, 7918), (Start: 51 @8050 has 56 MA's), (Start: 54 @8053 has 49 MA's), (63, 8077), (83, 8146), (85, 8155), (99, 8203), (106, 8242), (115, 8278), (119, 8287), (136, 8347),

Gene: Vulture_8 Start: 6923, Stop: 7261, Start Num: 52
Candidate Starts for Vulture_8:
(Start: 52 @6923 has 230 MA's), (67, 6956), (78, 6995), (100, 7076), (133, 7181), (135, 7190),

Gene: WalkingDead_9 Start: 7553, Stop: 7882, Start Num: 52
Candidate Starts for WalkingDead_9:
(7, 7256), (Start: 50 @7550 has 1 MA's), (Start: 52 @7553 has 230 MA's), (Start: 61 @7568 has 2 MA's), (123, 7778), (132, 7805), (134, 7814), (143, 7850),

Gene: Walrus_9 Start: 6871, Stop: 7242, Start Num: 52

Candidate Starts for Walrus_9:
(Start: 52 @6871 has 230 MA's), (62, 6895), (93, 7009), (109, 7069),

Gene: Wawa_12 Start: 9789, Stop: 10127, Start Num: 52
Candidate Starts for Wawa_12:
(Start: 52 @9789 has 230 MA's), (94, 9921), (111, 9975), (135, 10056), (142, 10086),

Gene: Wayne_12 Start: 9883, Stop: 10221, Start Num: 52
Candidate Starts for Wayne_12:
(Start: 52 @9883 has 230 MA's), (67, 9916),

Gene: Westrich_11 Start: 7887, Stop: 8228, Start Num: 51
Candidate Starts for Westrich_11:
(Start: 51 @7887 has 56 MA's), (Start: 54 @7890 has 49 MA's), (69, 7932), (86, 7995), (88, 7998), (93, 8013), (123, 8121), (132, 8148), (143, 8199),

Gene: WileyE_9 Start: 7385, Stop: 7747, Start Num: 51
Candidate Starts for WileyE_9:
(27, 7253), (Start: 51 @7385 has 56 MA's), (63, 7412), (83, 7481), (85, 7490), (101, 7547), (106, 7577), (111, 7595), (115, 7613), (119, 7622), (136, 7682),

Gene: William_9 Start: 6952, Stop: 7320, Start Num: 52
Candidate Starts for William_9:
(Start: 52 @6952 has 230 MA's), (63, 6976), (66, 6982), (83, 7054), (87, 7069), (93, 7087), (96, 7102), (109, 7147), (111, 7156),

Gene: Wisp_9 Start: 6959, Stop: 7321, Start Num: 52
Candidate Starts for Wisp_9:
(4, 6623), (43, 6932), (Start: 52 @6959 has 230 MA's), (62, 6983), (71, 7007), (79, 7037), (87, 7070), (93, 7088), (109, 7148),

Gene: Wizzo_8 Start: 6103, Stop: 6450, Start Num: 54
Candidate Starts for Wizzo_8:
(38, 6040), (Start: 54 @6103 has 49 MA's), (66, 6133), (67, 6136), (79, 6178), (85, 6208), (90, 6220), (111, 6292), (116, 6313), (129, 6355), (136, 6379), (137, 6382), (139, 6397), (147, 6430),

Gene: Wocket_10 Start: 7236, Stop: 7598, Start Num: 52
Candidate Starts for Wocket_10:
(11, 6972), (Start: 52 @7236 has 230 MA's), (62, 7260), (71, 7284), (79, 7314), (87, 7347), (93, 7365), (109, 7425), (118, 7464), (132, 7509),

Gene: WonderBoy_8 Start: 6905, Stop: 7243, Start Num: 52
Candidate Starts for WonderBoy_8:
(Start: 52 @6905 has 230 MA's), (67, 6938), (86, 7013), (142, 7202),

Gene: Zarbodnamra_9 Start: 6958, Stop: 7320, Start Num: 52
Candidate Starts for Zarbodnamra_9:
(4, 6622), (43, 6931), (Start: 52 @6958 has 230 MA's), (62, 6982), (68, 7000), (71, 7006), (79, 7036), (93, 7087), (109, 7147),

Gene: Zhuangyuan_11 Start: 8069, Stop: 8407, Start Num: 51
Candidate Starts for Zhuangyuan_11:
(41, 8030), (Start: 51 @8069 has 56 MA's), (69, 8114), (86, 8177), (93, 8195), (132, 8327), (143, 8378),

Gene: ZiggyZoo_9 Start: 6983, Stop: 7345, Start Num: 52
Candidate Starts for ZiggyZoo_9:
(4, 6647), (43, 6956), (Start: 52 @6983 has 230 MA's), (62, 7007), (71, 7031), (79, 7061), (87, 7094), (93, 7112), (109, 7172),

Gene: Zilla_9 Start: 7011, Stop: 7373, Start Num: 52
Candidate Starts for Zilla_9:
(43, 6984), (Start: 52 @7011 has 230 MA's), (62, 7035), (71, 7059), (79, 7089), (87, 7122), (93, 7140), (109, 7200),

Gene: Zixiang_10 Start: 7688, Stop: 8029, Start Num: 51
Candidate Starts for Zixiang_10:
(27, 7556), (36, 7613), (49, 7685), (Start: 51 @7688 has 56 MA's), (Start: 54 @7691 has 49 MA's), (69, 7733), (86, 7796), (88, 7799), (93, 7814), (123, 7922), (132, 7949), (136, 7964), (137, 7967), (143, 8000),

Gene: Zorro_12 Start: 9768, Stop: 10106, Start Num: 52
Candidate Starts for Zorro_12:
(Start: 52 @9768 has 230 MA's), (94, 9900), (111, 9954), (135, 10035), (142, 10065),