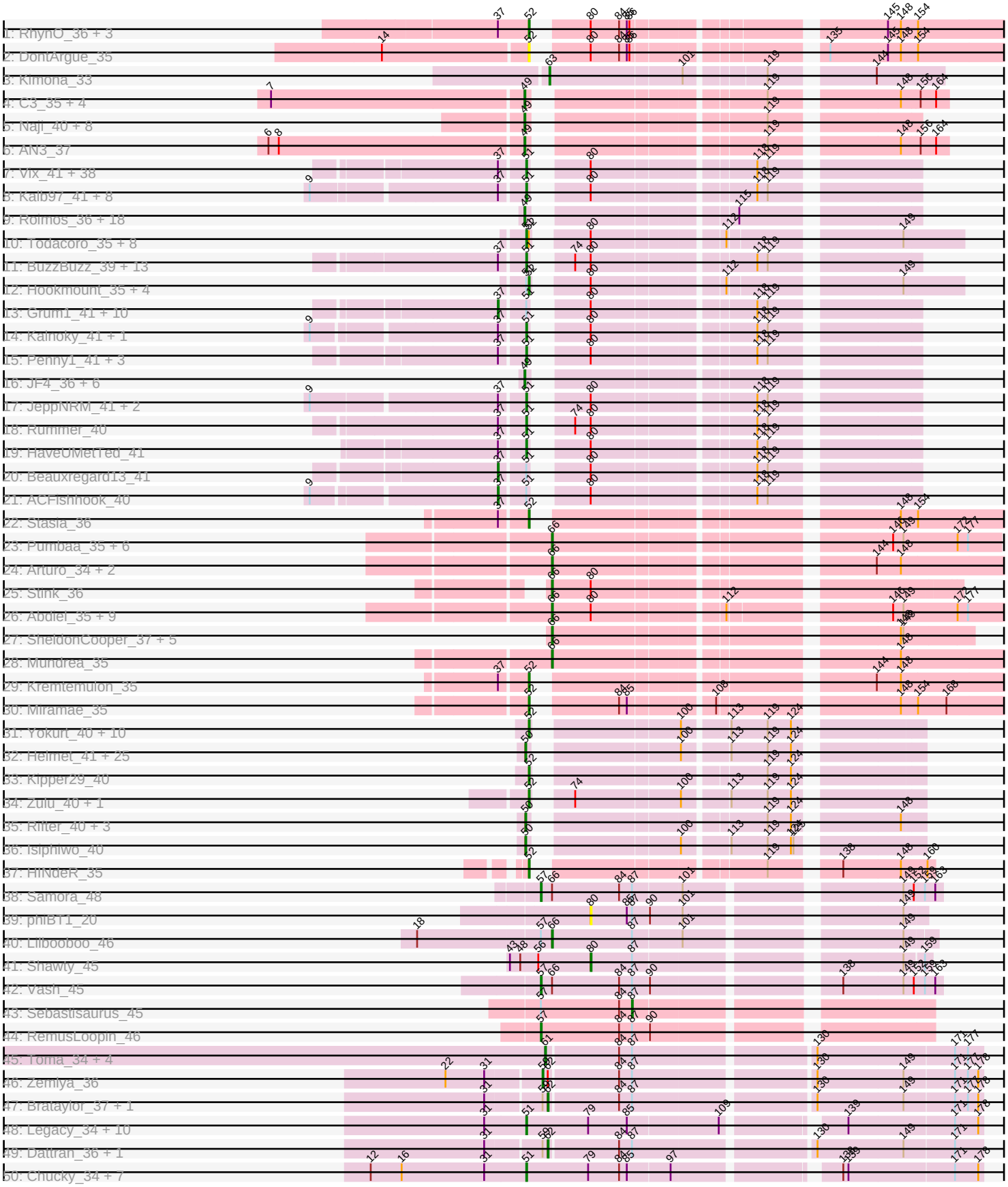
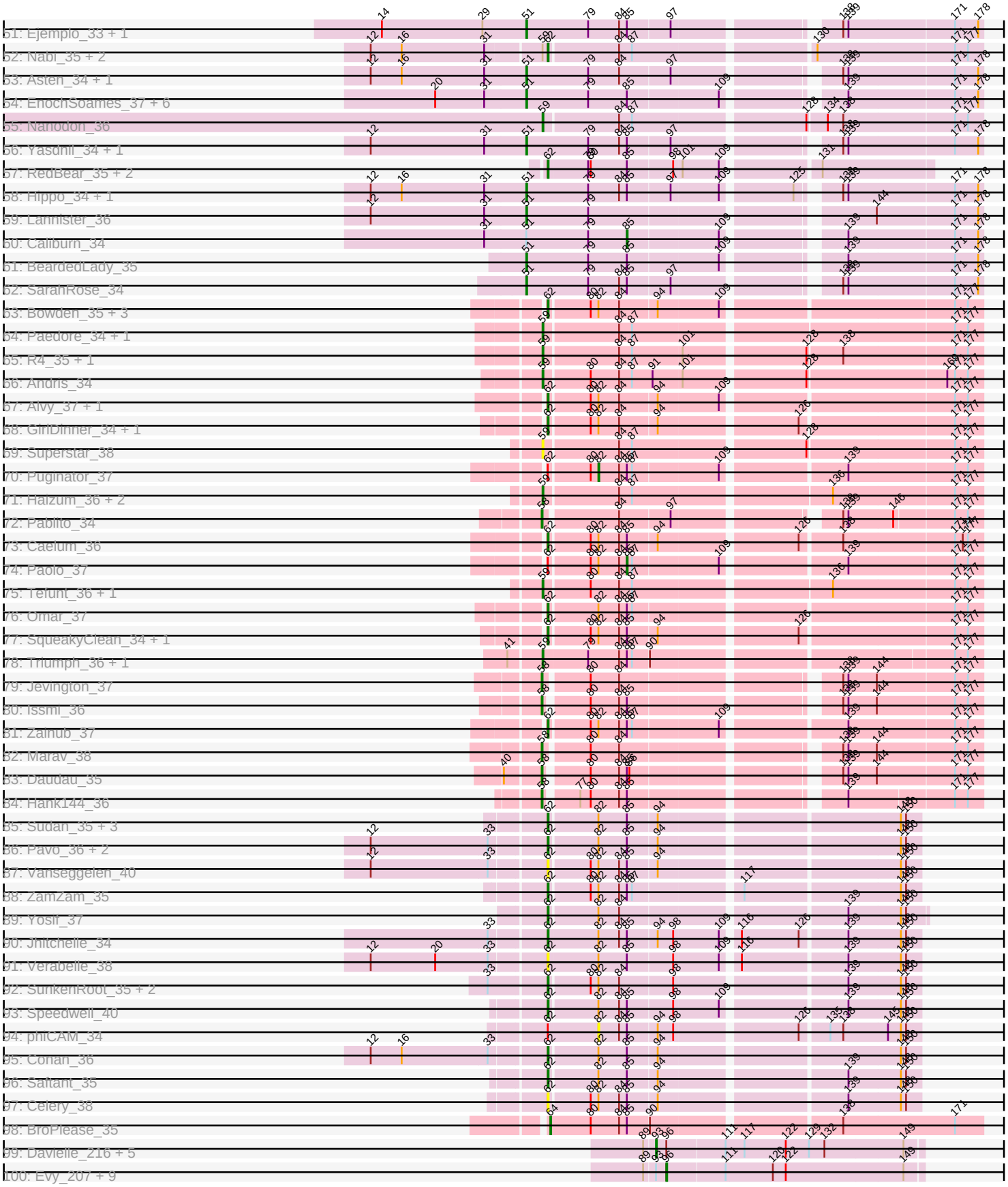
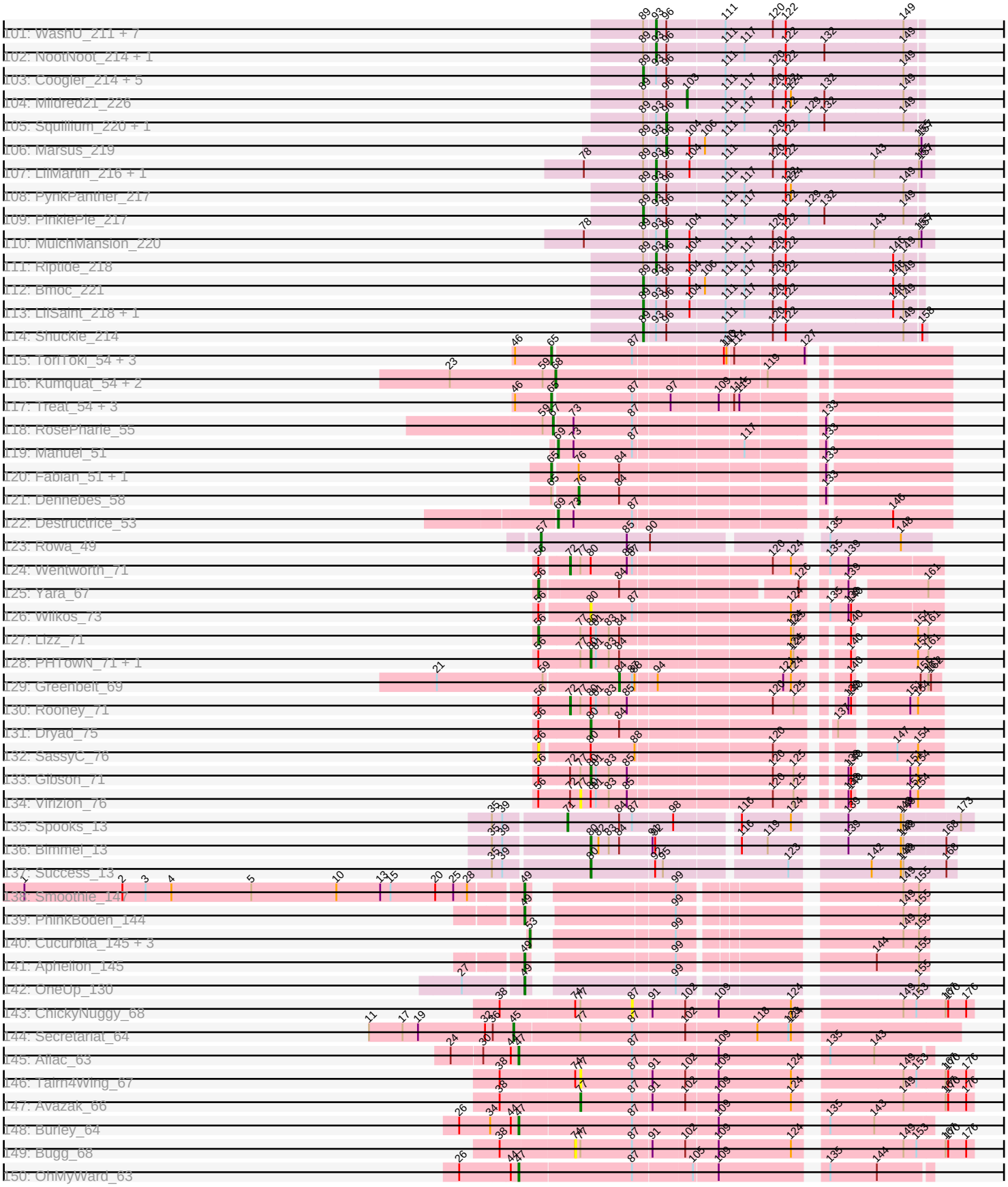
Pham 347093


1: RhynO_36 + 3
2: DontArgue_35
3: Kimona_33
4: C3_35 + 4
5: Naji_40 + 8
6: AN3_37
7: Vix_41 + 38
8: Kalb97_41 + 8
9: Rolmos_36 + 18
10: Todacoro_35 + 8
11: BuzzBuzz_39 + 13
12: Hookmount_35 + 4
13: Grum1_41 + 10
14: Kalnoky_41 + 1
15: Penny1_41 + 3
16: JF4_36 + 6
17: JeppNRM_41 + 2
18: Rummer_40
19: HaveOMeTred_41
20: Beauxregard13_41
21: ACFishhook_40
22: Stasia_36
23: Pumbaa_35 + 6
24: Arturo_34 + 2
25: Stink_36
26: Abdiel_35 + 9
27: SheldonCooper_37 + 5
28: Mundrea_35
29: Kremlemulon_35
30: Miramae_35
31: Yokurt_40 + 10
32: Helmet_41 + 25
33: Kipper29_40
34: Zulu_40 + 1
35: Rifter_40 + 3
36: Isiphiwo_40
37: HiNdeR_35
38: Samora_48
39: phiBT1_20
40: Lilbooboo_46
41: Shawty_45
42: Vash_45
43: Sebastisaurus_45
44: RemusLoopin_46
45: Toma_34 + 4
46: Zemlya_36
47: Brataylor_37 + 1
48: Legacy_34 + 10
49: Dattran_36 + 1
50: Chucky_34 + 7

Pham 347093


51: Ejemplo_33 + 1
52: Nabi_35 + 2
53: Asten_34 + 1
54: EnochSoames_37 + 6
55: Nanodon_36
56: Yasuhil_34 + 1
57: RedBear_35 + 2
58: Hippo_34 + 1
59: Lannister_36
60: Calliburn_34
61: BeardedLady_35
62: SarahRose_34
63: Bowden_35 + 3
64: Paedore_34 + 1
65: R4_35 + 1
66: Andris_34
67: Alvy_37 + 1
68: GinDinner_34 + 1
69: Superstar_38
70: Puginator_37
71: Haizum_36 + 2
72: Pablito_34
73: Caelum_36
74: Paolo_37
75: Telunt_36 + 1
76: Omar_37
77: SqueakyClean_34 + 1
78: Triumph_36 + 1
79: Jevington_37
80: Issmi_36
81: Zainub_37
82: Marav_38
83: Daudau_35
84: Hank144_36
85: Sudan_35 + 3
86: Pavo_36 + 2
87: Vanseggelen_40
88: ZamZam_35
89: Yosif_37
90: Jhitchelle_34
91: Verabelle_38
92: SunkenRoot_35 + 2
93: Speedwell_40
94: phiCAM_34
95: Conan_36
96: Saltant_35
97: Celery_38
98: BroPlease_35
99: Davielle_216 + 5
100: Evy_207 + 9

Pham 347093


101: WashO_211 + 7
102: NootNoot_214 + 1
103: Coogler_214 + 5
104: Mildred21_226
105: Squillium_220 + 1
106: Marsus_219
107: LilMartin_216 + 1
108: PynkPanther_217
109: PinkiePie_217
110: MulchMansion_220
111: Riptide_218
112: Bmoc_221
113: LilSaint_218 + 1
114: Shuckie_214
115: TomToki_54 + 3
116: Kumquat_54 + 2
117: Treat_54 + 3
118: RosePhanie_55
119: Manuel_51
120: Fabian_51 + 1
121: Dennebes_58
122: Destructrice_53
123: Rowa_49
124: Wentworth_71
125: Yara_67
126: Wilkos_73
127: Lizz_71
128: PHTrowN_71 + 1
129: Greenbelt_69
130: Rooney_71
131: Dryad_75
132: SassyC_76
133: Gibson_71
134: Virizion_76
135: Spooks_13
136: Bimmel_13
137: Success_13
138: Smoothie_147
139: PhinkBoden_144
140: Cucurbita_145 + 3
141: Aphelion_145
142: OneUp_130
143: ChickyNuggy_68
144: Secretariat_64
145: Allac_63
146: Talm4Wing_67
147: Avazak_66
148: Burley_64
149: Bugg_68
150: OhMyWard_63

Pham 347093


151: Vardy_63
152: Schwartz33_66
153: ChipsNGuac_43 + 3
154: Agamotto_44
155: Studio_45
156: Mireles_47
157: TMaxx_45
158: Audell_43 + 1
159: Makima_44
160: TripleC_45
161: Ibantik_13
162: RunningOnE_13
163: Boilgate_73

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 347093 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 347093 has 453 members, 21 are drafts.

Phages represented in each track:
• Track 1 : RhynO_36, Shapes_39, Rowdy_39, DustyMartin_39
• Track 2 : DontArgue_35
• Track 3 : Kimona_33
• Track 4 : C3_35, AN9_40, VC3_40, ANI8_40, VA6_37
• Track 5 : Naji_40, D29_36.1, Kerberos_40, StarStuff_40, Tomathan_40, DBQu4n_40, Duplo_40, D32_40, Pomar16_40
• Track 6 : AN3_37
• Track 7 : Vix_41, Microwolf_41, Dieselweasel_41, MuchMore_43, DaHudson_41, Phoebe_41, JHC117_41, GtownJaz_41, Grif_41, Jobu08_40, Taurus_41, Aglet_41, Tiffany_41, MarQuardt_41, Malinsilva_43, Mainiac_41, Cullens_41, Stagni_41, Fernando_41, Lilith_41, AugsMagnumOpus_43, Pembroke_41, Lowa_41, Bigflo_41, Anubis_43, P28Green_41, JenCasNa_41, SoilDragon_40, Marie_41, Sabinator_40, MadMarie_41, StepMih_41, Farber_41, Zetzy_40, LugYA_43, Ollie_41, BreSam8_41, PGHhamlin_43, OlanP_40
• Track 8 : Kalb97_41, Reba_41, Manu_41, Groupthink_41, Phranny_41, PurpleHaze_40, PhishRPhriends_39, Calvinny_40, Gemma_40
• Track 9 : Roimos_36, Pistachio_37, Heathen_36, MA5_36, Clammy_37, Fred313_36, TNguyen7_36, SaturnRing_36, BlueBird_37, DropBear_36, Kachowdy_36, Giroux_37, HelDan_36, Marchesa_36, Puppy_37, Bugatti_37, Scout_36, BabyRay_36, Idleandcovert_36
• Track 10 : Todacoro_35, Texage_34, QuinnKiro_34, Veracruz_34, Noella_35, ResDef_35, Norbert_34, Margo_35, Panamaxus_34
• Track 11 : BuzzBuzz_39, Daishi_39, Soshari_42, LarryKay_40, Spike509_40, Methuselah_39, HashRod_41, Louie6_40, Bxz2_38, TinyPebbles_40, Misomonster_42, KADY_41, Phoxy_40, AgronaGT15_40
• Track 12 : Hookmount_35, Lambert1_35, Popcicle_35, Caviar_35, Pocahontas_35
• Track 13 : Grum1_41, ClownCar_40, GingkoMaracino_41, Snickers_41, Sabia_41, Watson_41, Grub_41, MoneyMay_41, Wooldri_43, Hercules11_41, SoYo_41
• Track 14 : Kalnoky_41, Marius_41
• Track 15 : Penny1_41, EpicPhail_41, LBerry_41, PotatoSplit_42
• Track 16 : JF4_36, JF2_36, MK4_36, Isca_36, Rockstar_36, Phantastic_36, B1_34
• Track 17 : JeppNRM_41, Pawn_40, Heliosoles_40
• Track 18 : Rummer_40

• Track 19 : HaveUMetTed_41
• Track 20 : Beauxregard13_41
• Track 21 : ACFishhook_40
• Track 22 : Stasia_36
• Track 23 : Pumbaa_35, Phontbonne_35, Nyxis_35, Ulysses_34, TroyPia_36, Commander_36, LittleGuy_35
• Track 24 : Arturo_34, Kratark_35, Iracema64_36
• Track 25 : Stink_36
• Track 26 : Abdiel_35, Maxo_36, BellusTerra_36, Eurydice_36, Eagle_35, Ohfah_36, Sparxx_36, Polymorphads_36, Nebs_36, Morrow_36
• Track 27 : SheldonCooper_37, ChampagnePapi_37, BangNhom_36, Obama12_37, LHTSCC_37, Cerulean_37
• Track 28 : Mundrea_35
• Track 29 : Kremtemulon_35
• Track 30 : Miramae_35
• Track 31 : Yokurt_40, Artemis2UCLA_40, WunderPhul_40, Priamo_41, ToneTone_37, Zaka_40, Hexamo_40, Jeffabunny_40, Lilbunny_39, Wiks_39, CloudWang3_40
• Track 32 : Helmet_41, Gruunaga_40, Chartreuse_40, Dorothea_40, Roksolana_41, Imbriano_41, Kazan_41, Blinn1_41, Temprado_40, SuperAwesome_40, Candra_41, Hoot_40, BABullseye_40, Indra_42, McFly_40, Polyphemus_40, Newrala_40, BennyP_40, BlessJoy_40, Cookiedough_40, VohminGhazi_40, Gladiator_40, JewelBug_41, Neeharika16_40, Jordennis_40, SmellyB_40
• Track 33 : Kipper29_40
• Track 34 : Zulu_40, Tucker_40
• Track 35 : Rifter_40, Hammer_40, Koko_40, Blue7_41
• Track 36 : Isiphiwo_40
• Track 37 : HINdeR_35
• Track 38 : Samora_48
• Track 39 : phiBT1_20
• Track 40 : Lilbooboo_46
• Track 41 : Shawty_45
• Track 42 : Vash_45
• Track 43 : Sebastisaurus_45
• Track 44 : RemusLoopin_46
• Track 45 : Toma_34, Lika_34, Goby_34, Sujidade_35, Godpower_35
• Track 46 : Zemlya_36
• Track 47 : Brataylor_37, Danzina_36
• Track 48 : Legacy_34, Esperer_34, Phettuccine_34, Bovely_34, Hydra_36, Unstoppable_34, Leviticus_34, Aaronocolus_34, Ozzie_34, SunsetPointe_34, Indigo_33
• Track 49 : Dattran_36, Celeste_35
• Track 50 : Chucky_34, BarryBee_37, OzzyJ_35, TagePhighter_36, Triste_34, Snorlax_34, Dwayne_34, Emaanora_37
• Track 51 : Ejemplo_33, TuanPN_33
• Track 52 : Nabi_35, Lorelei_35, Rana_35
• Track 53 : Asten_34, Whatever_34
• Track 54 : EnochSoames_37, Izzy_35, Eddasa_35, Oliynyk_35, Rusticus_35, BryanRecycles_35, Jash_35
• Track 55 : Nanodon_36
• Track 56 : Yasdnil_34, Maneekul_34
• Track 57 : RedBear_35, Katalie_34, South40_34
• Track 58 : Hippo_34, Werner_34

• Track 59 : Lannister_36
• Track 60 : Caliburn_34
• Track 61 : BeardedLady_35
• Track 62 : SarahRose_34
• Track 63 : Bowden_35, Thestral_36, TinaBelcher_35, TrvxScott_34
• Track 64 : Paedore_34, Loofah_35
• Track 65 : R4_35, ELB20_33
• Track 66 : Andris_34
• Track 67 : Alvy_37, BartholomewSD_37
• Track 68 : GirlDinner_34, Animus_34
• Track 69 : Superstar_38
• Track 70 : Puginator_37
• Track 71 : Haizum_36, Diane_34, Amethyst_34
• Track 72 : Pablito_34
• Track 73 : Caelum_36
• Track 74 : Paolo_37
• Track 75 : Tefunt_36, Nishikigoi_36
• Track 76 : Omar_37
• Track 77 : SqueakyClean_34, Janus_35
• Track 78 : Triumph_36, Axiom_35
• Track 79 : Jevington_37
• Track 80 : Issmi_36
• Track 81 : Zainub_37
• Track 82 : Marav_38
• Track 83 : Daudau_35
• Track 84 : Hank144_36
• Track 85 : Sudan_35, Kaine_35, Dexers_34, Alsaber_36
• Track 86 : Pavo_36, ElGato_36, Provolone_36
• Track 87 : Vanseggelen_40
• Track 88 : ZamZam_35
• Track 89 : Yosif_37
• Track 90 : Jhitchelle_34
• Track 91 : Verabelle_38
• Track 92 : SunkenRoot_35, Amela_35, Verse_35
• Track 93 : Speedwell_40
• Track 94 : phiCAM_34
• Track 95 : Conan_36
• Track 96 : Saftant_35
• Track 97 : Celery_38
• Track 98 : BroPlease_35
• Track 99 : Davielle_216, Bartholomune_217, Persimmon_220, Navo_211, WhereRU_216, Braelyn_213
• Track 100 : Evy_207, Peebs_214, Teutsch_216, Pepperwood_217, EGole_220, BlueOtter_215, PacManQ_213, Lululemon_213, HangryHippo_215, Cross_216
• Track 101 : WashU_211, Tribute_213, Sushi23_217, Watermoore_216, Cursive_219, Larnav_216, Samisti12_221, Scheme_220
• Track 102 : NootNoot_214, Paradiddles_209
• Track 103 : Coogler_214, ArianaSWT_220, Leo04_217, Targaryen_216, Jay2Jay_222, Warpy_220
• Track 104 : Mildred21_226
• Track 105 : Squillium_220, FreddyDRoo_218
• Track 106 : Marsus_219
• Track 107 : LilMartin_216, Angela_219

- Track 108 : PynkPanther_217
- Track 109 : PinkiePie_217
- Track 110 : MulchMansion_220
- Track 111 : Riptide_218
- Track 112 : Bmoc_221
- Track 113 : LilSaint_218, Anedea_230
- Track 114 : Shuckle_214
- Track 115 : ToriToki_54, HaugeAnator_54, Percastrophe_54, ZooBear_54
- Track 116 : Kumquat_54, Zeigle_54, WRightOn_58
- Track 117 : Treat_54, Olicious_54, Immanuel3_53, Romero_54
- Track 118 : RosePharie_55
- Track 119 : Manuel_51
- Track 120 : Fabian_51, Vrykolakas_54
- Track 121 : Dennebes_58
- Track 122 : Destructrice_53
- Track 123 : Rowa_49
- Track 124 : Wentworth_71
- Track 125 : Yara_67
- Track 126 : Wilkos_73
- Track 127 : Lizz_71
- Track 128 : PHTowN_71, ShakeNBake_71
- Track 129 : Greenbelt_69
- Track 130 : Rooney_71
- Track 131 : Dryad_75
- Track 132 : SassyC_76
- Track 133 : Gibson_71
- Track 134 : Virizion_76
- Track 135 : Spooks_13
- Track 136 : Bimmel_13
- Track 137 : Success_13
- Track 138 : Smoothie_147
- Track 139 : PhinkBoden_144
- Track 140 : Cucurbita_145, Culver_146, Toniann_146, Lozinak_146
- Track 141 : Aphelion_145
- Track 142 : OneUp_130
- Track 143 : ChickyNuggy_68
- Track 144 : Secretariat_64
- Track 145 : Aflac_63
- Track 146 : Tairn4Wing_67
- Track 147 : Avazak_66
- Track 148 : Burley_64
- Track 149 : Bugg_68
- Track 150 : OhMyWard_63
- Track 151 : Vardy_63
- Track 152 : Schwartz33_66
- Track 153 : ChipsNGuac_43, AnnabelLee_43, Gerri43_43, Roberts_43
- Track 154 : Agamotto_44
- Track 155 : Studio_45
- Track 156 : Mireles_47
- Track 157 : TMaxx_45
- Track 158 : Audell_43, LastNadiia_46
- Track 159 : Makima_44
- Track 160 : TripleC_45

• Track 161 : Ibantik_13
• Track 162 : RunningOnE_13
• Track 163 : Boilgate_73

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

The start number called the most often in the published annotations is 51, it was called in 118 of the 432 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aaronocolus_34, Aglet_41, AgronaGT15_40, Anubis_43, Asten_34, AugsMagnumOpus_43, BarryBee_37, BeardedLady_35, Bigflo_41, Bovely_34, BreSam8_41, BryanRecycles_35, BuzzBuzz_39, Bxz2_38, Calvinny_40, Chucky_34, Cullens_41, DaHudson_41, Daishi_39, Dieselweasel_41, Dwayne_34, Eddasa_35, Ejemplo_33, Emaanora_37, EnochSoames_37, EpicPhail_41, Esperer_34, Farber_41, Fernando_41, Gemma_40, Grif_41, Groupthink_41, GtownJaz_41, HashRod_41, HaveUMetTed_41, Heliosoles_40, Hippo_34, Hydra_36, Indigo_33, Izzy_35, JHC117_41, Jash_35, JenCasNa_41, JeppNRM_41, Jobu08_40, KADY_41, Kalb97_41, Kalnoky_41, LBerry_41, Lannister_36, LarryKay_40, Legacy_34, Leviticus_34, Lilith_41, Louie6_40, Lowa_41, LugYA_43, MadMarie_41, Mainiac_41, Malinsilva_43, Maneekul_34, Manu_41, MarQuardt_41, Margo_35, Marie_41, Marius_41, Methuselah_39, Microwolf_41, Misomonster_42, MuchMore_43, Noella_35, Norbert_34, OlanP_40, Oliynyk_35, Ollie_41, Ozzie_34, OzzyJ_35, P28Green_41, PGHhamlin_43, Panamaxus_34, Pawn_40, Pembroke_41, Penny1_41, Phettuccine_34, PhishRPhriends_39, Phoebe_41, Phoxy_40, Phranny_41, PotatoSplit_42, PurpleHaze_40, QuinnKiro_34, Reba_41, ResDef_35, Rummer_40, Rusticus_35, Sabinator_40, SarahRose_34, Snorlax_34, SoilDragon_40, Soshari_42, Spike509_40, Stagni_41, StepMih_41, SunsetPointe_34, TagePhighter_36, Taurus_41, Texage_34, Tiffany_41, TinyPebbles_40, Todacoro_35, Triste_34, TuanPN_33, Unstoppable_34, Veracruz_34, Vix_41, Werner_34, Whatever_34, Yasdnil_34, Zetzy_40,

Genes that have the "Most Annotated" start but do not call it:
• ACFishhook_40, Beauxregard13_41, Caliburn_34, Caviar_35, ClownCar_40, GingkoMaracino_41, Grub_41, Grum1_41, Hercules11_41, Hookmount_35, Lambert1_35, MoneyMay_41, Pocahontas_35, Popcicle_35, Sabia_41, Snickers_41, SoYo_41, Watson_41, Wooldri_43,

Genes that do not have the "Most Annotated" start:
• AN3_37, AN9_40, ANI8_40, Abdiel_35, Aflac_63, Agamotto_44, Alsaber_36, Alvy_37, Amela_35, Amethyst_34, Andris_34, Anedea_230, Angela_219, Animus_34, AnnabelLee_43, Aphelion_145, ArianaSWT_220, Artemis2UCLA_40, Arturo_34, Audell_43, Avazak_66, Axiom_35, B1_34, BABullseye_40, BabyRay_36, BangNhom_36, BartholomewSD_37, Bartholomune_217, BellusTerra_36, BennyP_40, Bimmel_13, BlessJoy_40, Blinn1_41, Blue7_41, BlueBird_37, BlueOtter_215, Bmoc_221, Boilgate_73, Bowden_35, Braelyn_213, Brataylor_37, BroPlease_35, Bugatti_37, Bugg_68, Burley_64, C3_35, Caelum_36, Candra_41, Celery_38, Celeste_35, Cerulean_37, ChampagnePapi_37, Chartreuse_40, ChickyNuggy_68, ChipsNGuac_43, Clammy_37, CloudWang3_40, Commander_36, Conan_36, Coogler_214, Cookiedough_40, Cross_216, Cucurbita_145, Culver_146,

Cursive_219, D29_36.1, D32_40, DBQu4n_40, Danzina_36, Dattran_36, Daudau_35, Davielle_216, Dennebes_58, Destructrice_53, Dexers_34, Diane_34, DontArgue_35, Dorothea_40, DropBear_36, Dryad_75, Duplo_40, DustyMartin_39, EGole_220, ELB20_33, Eagle_35, ElGato_36, Eurydice_36, Evy_207, Fabian_51, Fred313_36, FreddyDRoo_218, Gerri43_43, Gibson_71, GirlDinner_34, Giroux_37, Gladiator_40, Goby_34, Godpower_35, Greenbelt_69, Gruunaga_40, HINdeR_35, Haizum_36, Hammer_40, HangryHippo_215, Hank144_36, HaugeAnator_54, Heathen_36, HelDan_36, Helmet_41, Hexamo_40, Hoot_40, Ibantik_13, Idleandcovert_36, Imbriano_41, Immanuel3_53, Indra_42, Iracema64_36, Isca_36, Isiphiwo_40, Issmi_36, JF2_36, JF4_36, Janus_35, Jay2Jay_222, Jeffabunny_40, Jevington_37, JewelBug_41, Jhitchelle_34, Jordennis_40, Kachowdy_36, Kaine_35, Katalie_34, Kazan_41, Kerberos_40, Kimona_33, Kipper29_40, Koko_40, Kratark_35, Kremtemulon_35, Kumquat_54, LHTSCC_37, Larnav_216, LastNadiia_46, Leo04_217, Lika_34, LilMartin_216, LilSaint_218, Lilbooboo_46, Lilbunny_39, LittleGuy_35, Lizz_71, Loofah_35, Lorelei_35, Lozinak_146, Lululemon_213, MA5_36, MK4_36, Makima_44, Manuel_51, Marav_38, Marchesa_36, Marsus_219, Maxo_36, McFly_40, Mildred21_226, Miramae_35, Mireles_47, Morrow_36, MulchMansion_220, Mundrea_35, Nabi_35, Naji_40, Nanodon_36, Navo_211, Nebs_36, Neeharika16_40, Newrala_40, Nishikigoi_36, NootNoot_214, Nyxis_35, Obama12_37, OhMyWard_63, Ohfah_36, Olicious_54, Omar_37, OneUp_130, PHTowN_71, Pablito_34, PacManQ_213, Paedore_34, Paolo_37, Paradiddles_209, Pavo_36, Peebs_214, Pepperwood_217, Percastrophe_54, Persimmon_220, Phantastic_36, PhinkBoden_144, Phontbonne_35, PinkiePie_217, Pistachio_37, Polymorphads_36, Polyphemus_40, Pomar16_40, Priamo_41, Provolone_36, Puginator_37, Pumbaa_35, Puppy_37, PynkPanther_217, R4_35, Rana_35, RedBear_35, RemusLoopin_46, RhynO_36, Rifter_40, Riptide_218, Roberts_43, Rockstar_36, Roimos_36, Roksolana_41, Romero_54, Rooney_71, RosePharie_55, Rowa_49, Rowdy_39, RunningOnE_13, Saftant_35, Samisti12_221, Samora_48, SassyC_76, SaturnRing_36, Scheme_220, Schwartz33_66, Scout_36, Sebastisaurus_45, Secretariat_64, ShakeNBake_71, Shapes_39, Shawty_45, SheldonCooper_37, Shuckle_214, SmellyB_40, Smoothie_147, South40_34, Sparxx_36, Speedwell_40, Spooks_13, SqueakyClean_34, Squillium_220, StarStuff_40, Stasia_36, Stink_36, Studio_45, Success_13, Sudan_35, Sujidade_35, SunkenRoot_35, SuperAwesome_40, Superstar_38, Sushi23_217, TMaxx_45, TNguyen7_36, Tairn4Wing_67, Targaryen_216, Tefunt_36, Temprado_40, Teutsch_216, Thestral_36, TinaBelcher_35, Toma_34, Tomathan_40, ToneTone_37, Toniann_146, ToriToki_54, Treat_54, Tribute_213, TripleC_45, Triumph_36, TroyPia_36, TrvxScott_34, Tucker_40, Ulysses_34, VA6_37, VC3_40, Vanseggelen_40, Vardy_63, Vash_45, Verabelle_38, Verse_35, Virizion_76, VohminGhazi_40, Vrykolakas_54, WRightOn_58, Warpy_220, WashU_211, Watermoore_216, Wentworth_71, WhereRU_216, Wiks_39, Wilkos_73, WunderPhul_40, Yara_67, Yokurt_40, Yosif_37, Zainub_37, Zaka_40, ZamZam_35, Zeigle_54, Zemlya_36, ZooBear_54, Zulu_40, phiBT1_20, phiCAM_34,

Summary by start number:

Start 37:
• Found in 92 of 453 (20.3%) of genes in pham
• Manual Annotations of this start: 13 of 432
• Called 14.1% of time when present
• Phage (with cluster) where this start called: ACFishhook_40 (A3), Beauxregard13_41 (A3), ClownCar_40 (A3), GingkoMaracino_41 (A3), Grub_41 (A3), Grum1_41 (A3), Hercules11_41 (A3), MoneyMay_41 (A3), Sabia_41 (A3),

Snickers_41 (A3), SoYo_41 (A3), Watson_41 (A3), Wooldri_43 (A3),

Start 45:
• Found in 2 of 453 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Schwartz33_66 (DJ), Secretariat_64 (DJ),

Start 47:
• Found in 4 of 453 (0.9%) of genes in pham
• Manual Annotations of this start: 4 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aflac_63 (DJ), Burley_64 (DJ), OhMyWard_63 (DJ), Vardy_63 (DJ),

Start 49:
• Found in 45 of 453 (9.9%) of genes in pham
• Manual Annotations of this start: 42 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AN3_37 (A2), AN9_40 (A2), ANI8_40 (A2), Aphelion_145 (CQ1), B1_34 (A3), BabyRay_36 (A3), BlueBird_37 (A3), Bugatti_37 (A3), C3_35 (A2), Clammy_37 (A3), D29_36.1 (A2), D32_40 (A2), DBQu4n_40 (A2), DropBear_36 (A3), Duplo_40 (A2), Fred313_36 (A3), Giroux_37 (A3), Heathen_36 (A3), HelDan_36 (A3), Idleandcovert_36 (A3), Isca_36 (A3), JF2_36 (A3), JF4_36 (A3), Kachowdy_36 (A3), Kerberos_40 (A2), MA5_36 (A3), MK4_36 (A3), Marchesa_36 (A3), Naji_40 (A2), OneUp_130 (CQ2), Phantastic_36 (A3), PhinkBoden_144 (CQ1), Pistachio_37 (A3), Pomar16_40 (A2), Puppy_37 (A3), Rockstar_36 (A3), Roimos_36 (A3), SaturnRing_36 (A3), Scout_36 (A3), Smoothie_147 (CQ1), StarStuff_40 (A2), TNguyen7_36 (A3), Tomathan_40 (A2), VA6_37 (A2), VC3_40 (A2),

Start 50:
• Found in 31 of 453 (6.8%) of genes in pham
• Manual Annotations of this start: 31 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BABullseye_40 (A6), BennyP_40 (A6), BlessJoy_40 (A6), Blinn1_41 (A6), Blue7_41 (A6), Candra_41 (A6), Chartreuse_40 (A6), Cookiedough_40 (A6), Dorothea_40 (A6), Gladiator_40 (A6), Gruunaga_40 (A6), Hammer_40 (A6), Helmet_41 (A6), Hoot_40 (A6), Imbriano_41 (A6), Indra_42 (A6), Isiphiwo_40 (A6), JewelBug_41 (A6), Jordennis_40 (A6), Kazan_41 (A6), Koko_40 (A6), McFly_40 (A6), Neeharika16_40 (A6), Newrala_40 (A6), Polyphemus_40 (A6), Rifter_40 (A6), Roksolana_41 (A6), SmellyB_40 (A6), SuperAwesome_40 (A6), Temprado_40 (A6), VohminGhazi_40 (A6),

Start 51:
• Found in 138 of 453 (30.5%) of genes in pham
• Manual Annotations of this start: 118 of 432
• Called 86.2% of time when present
• Phage (with cluster) where this start called: Aaronocolus_34 (BD1), Aglet_41 (A3), AgronaGT15_40 (A3), Anubis_43 (A3), Asten_34 (BD1), AugsMagnumOpus_43 (A3), BarryBee_37 (BD1), BeardedLady_35 (BD1), Bigflo_41 (A3), Bovely_34 (BD1), BreSam8_41 (A3), BryanRecycles_35 (BD1), BuzzBuzz_39 (A3), Bxz2_38 (A3),

Calvinny_40 (A3), Chucky_34 (BD1), Cullens_41 (A3), DaHudson_41 (A3), Daishi_39 (A3), Dieselweasel_41 (A3), Dwayne_34 (BD1), Eddasa_35 (BD1), Ejemplo_33 (BD1), Emaanora_37 (BD1), EnochSoames_37 (BD1), EpicPhail_41 (A3), Esperer_34 (BD1), Farber_41 (A3), Fernando_41 (A3), Gemma_40 (A3), Grif_41 (A3), Groupthink_41 (A3), GtownJaz_41 (A3), HashRod_41 (A3), HaveUMetTed_41 (A3), Heliosoles_40 (A3), Hippo_34 (BD1), Hydra_36 (BD1), Indigo_33 (BD1), Izzy_35 (BD1), JHC117_41 (A3), Jash_35 (BD1), JenCasNa_41 (A3), JeppNRM_41 (A3), Jobu08_40 (A3), KADY_41 (A3), Kalb97_41 (A3), Kalnoky_41 (A3), LBerry_41 (A3), Lannister_36 (BD1), LarryKay_40 (A3), Legacy_34 (BD1), Leviticus_34 (BD1), Lilith_41 (A3), Louie6_40 (A3), Lowa_41 (A3), LugYA_43 (A3), MadMarie_41 (A3), Mainiac_41 (A3), Malinsilva_43 (A3), Maneekul_34 (BD1), Manu_41 (A3), MarQuardt_41 (A3), Margo_35 (A3), Marie_41 (A3), Marius_41 (A3), Methuselah_39 (A3), Microwolf_41 (A3), Misomonster_42 (A3), MuchMore_43 (A3), Noella_35 (A3), Norbert_34 (A3), OlanP_40 (A3), Oliynyk_35 (BD1), Ollie_41 (A3), Ozzie_34 (BD1), OzzyJ_35 (BD1), P28Green_41 (A3), PGHhamlin_43 (A3), Panamaxus_34 (A3), Pawn_40 (A3), Pembroke_41 (A3), Penny1_41 (A3), Phettuccine_34 (BD1), PhishRPhriends_39 (A3), Phoebe_41 (A3), Phoxy_40 (A3), Phranny_41 (A3), PotatoSplit_42 (A3), PurpleHaze_40 (A3), QuinnKiro_34 (A3), Reba_41 (A3), ResDef_35 (A3), Rummer_40 (A3), Rusticus_35 (BD1), Sabinator_40 (A3), SarahRose_34 (BD1), Snorlax_34 (BD1), SoilDragon_40 (A3), Soshari_42 (A3), Spike509_40 (A3), Stagni_41 (A3), StepMih_41 (A3), SunsetPointe_34 (BD1), TagePhighter_36 (BD1), Taurus_41 (A3), Texage_34 (A3), Tiffany_41 (A3), TinyPebbles_40 (A3), Todacoro_35 (A3), Triste_34 (BD1), TuanPN_33 (BD1), Unstoppable_34 (BD1), Veracruz_34 (A3), Vix_41 (A3), Werner_34 (BD1), Whatever_34 (BD1), Yasdnil_34 (BD1), Zetzy_40 (A3),

Start 52:
• Found in 37 of 453 (8.2%) of genes in pham
• Manual Annotations of this start: 24 of 432
• Called 75.7% of time when present
• Phage (with cluster) where this start called: Artemis2UCLA_40 (A6), Caviar_35 (A3), CloudWang3_40 (A6), DontArgue_35 (A10), DustyMartin_39 (A10), HINdeR_35 (A7), Hexamo_40 (A6), Hookmount_35 (A3), Jeffabunny_40 (A6), Kipper29_40 (A6), Kremtemulon_35 (A4), Lambert1_35 (A3), Lilbunny_39 (A6), Miramae_35 (A4), Pocahontas_35 (A3), Popcicle_35 (A3), Priamo_41 (A6), RhynO_36 (A10), Rowdy_39 (A10), Shapes_39 (A10), Stasia_36 (A4), ToneTone_37 (A6), Tucker_40 (A6), Wiks_39 (A6), WunderPhul_40 (A6), Yokurt_40 (A6), Zaka_40 (A6), Zulu_40 (A6),

Start 53:
• Found in 4 of 453 (0.9%) of genes in pham
• Manual Annotations of this start: 4 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cucurbita_145 (CQ1), Culver_146 (CQ1), Lozinak_146 (CQ1), Toniann_146 (CQ1),

Start 56:
• Found in 12 of 453 (2.6%) of genes in pham
• Manual Annotations of this start: 2 of 432
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Lizz_71 (BN), SassyC_76 (BN), Yara_67 (BN),

Start 57:
• Found in 6 of 453 (1.3%) of genes in pham
• Manual Annotations of this start: 4 of 432
• Called 66.7% of time when present
• Phage (with cluster) where this start called: RemusLoopin_46 (BB2), Rowa_49 (BL), Samora_48 (BB1), Vash_45 (BB1),

Start 58:
• Found in 13 of 453 (2.9%) of genes in pham
• Manual Annotations of this start: 12 of 432
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Audell_43 (FR), Daudau_35 (BD2), Hank144_36 (BD2), Issmi_36 (BD2), Jevington_37 (BD2), LastNadiia_46 (FR), Makima_44 (FR), Marav_38 (BD2), Mireles_47 (FR), Pablito_34 (BD2), TMaxx_45 (FR), TripleC_45 (FR),

Start 59:
• Found in 27 of 453 (6.0%) of genes in pham
• Manual Annotations of this start: 14 of 432
• Called 55.6% of time when present
• Phage (with cluster) where this start called: Amethyst_34 (BD2), Andris_34 (BD2), Axiom_35 (BD2), Diane_34 (BD2), ELB20_33 (BD2), Haizum_36 (BD2), Loofah_35 (BD2), Nanodon_36 (BD1), Nishikigoi_36 (BD2), Paedore_34 (BD2), R4_35 (BD2), Superstar_38 (BD2), Tefunt_36 (BD2), Triumph_36 (BD2), Zemlya_36 (BD1),

Start 60:
• Found in 2 of 453 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ibantik_13 (JN), RunningOnE_13 (JN),

Start 61:
• Found in 5 of 453 (1.1%) of genes in pham
• Manual Annotations of this start: 5 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Goby_34 (BD1), Godpower_35 (BD1), Lika_34 (BD1), Sujidade_35 (BD1), Toma_34 (BD1),

Start 62:
• Found in 46 of 453 (10.2%) of genes in pham
• Manual Annotations of this start: 39 of 432
• Called 91.3% of time when present
• Phage (with cluster) where this start called: Alsaber_36 (BD3), Alvy_37 (BD2), Amela_35 (BD3), Animus_34 (BD2), BartholomewSD_37 (BD2), Bowden_35 (BD2), Brataylor_37 (BD1), Caelum_36 (BD2), Celery_38 (BD3), Celeste_35 (BD1), Conan_36 (BD3), Danzina_36 (BD1), Dattran_36 (BD1), Dexers_34 (BD3), ElGato_36 (BD3), GirlDinner_34 (BD2), Janus_35 (BD2), Jhitchelle_34 (BD3), Kaine_35 (BD3), Katalie_34 (BD1), Lorelei_35 (BD1), Nabi_35 (BD1), Omar_37 (BD2), Pavo_36 (BD3), Provolone_36 (BD3), Rana_35 (BD1), RedBear_35 (BD1), Saftant_35 (BD3), South40_34 (BD1), Speedwell_40 (BD3), SqueakyClean_34 (BD2), Sudan_35 (BD3), SunkenRoot_35 (BD3), Thestral_36 (BD2), TinaBelcher_35 (BD2), TrvxScott_34 (BD2), Vanseggelen_40 (BD3), Verabelle_38 (BD3), Verse_35 (BD3), Yosif_37 (BD3), Zainub_37 (BD2), ZamZam_35 (BD3),

Start 63:
• Found in 1 of 453 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kimona_33 (A19),

Start 64:
• Found in 1 of 453 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BroPlease_35 (BD4),

Start 65:
• Found in 11 of 453 (2.4%) of genes in pham
• Manual Annotations of this start: 10 of 432
• Called 90.9% of time when present
• Phage (with cluster) where this start called: Fabian_51 (BF), HaugeAnator_54 (BF), Immanuel3_53 (BF), Olicious_54 (BF), Percastrophe_54 (BF), Romero_54 (BF), ToriToki_54 (BF), Treat_54 (BF), Vrykolakas_54 (BF), ZooBear_54 (BF),

Start 66:
• Found in 37 of 453 (8.2%) of genes in pham
• Manual Annotations of this start: 33 of 432
• Called 91.9% of time when present
• Phage (with cluster) where this start called: Abdiel_35 (A4), AnnabelLee_43 (FR), Arturo_34 (A4), BangNhom_36 (A4), BellusTerra_36 (A4), Cerulean_37 (A4), ChampagnePapi_37 (A4), ChipsNGuac_43 (FR), Commander_36 (A4), Eagle_35 (A4), Eurydice_36 (A4), Gerri43_43 (FR), Iracema64_36 (A4), Kratark_35 (A4), LHTSCC_37 (A4), Lilbooboo_46 (BB1), LittleGuy_35 (A4), Maxo_36 (A4), Morrow_36 (A4), Mundrea_35 (A4), Nebs_36 (A4), Nyxis_35 (A4), Obama12_37 (A4), Ohfah_36 (A4), Phontbonne_35 (A4), Polymorphads_36 (A4), Pumbaa_35 (A4), Roberts_43 (FR), SheldonCooper_37 (A4), Sparxx_36 (A4), Stink_36 (A4), Studio_45 (FR), TroyPia_36 (A4), Ulysses_34 (A4),

Start 67:
• Found in 1 of 453 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RosePharie_55 (BF),

Start 68:
• Found in 3 of 453 (0.7%) of genes in pham
• Manual Annotations of this start: 3 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kumquat_54 (BF), WRightOn_58 (BF), Zeigle_54 (BF),

Start 69:
• Found in 2 of 453 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Destructrice_53 (BF), Manuel_51 (BF),

Start 71:
• Found in 1 of 453 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Spooks_13 (BT),

Start 72:
• Found in 4 of 453 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 432
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Rooney_71 (BN), Wentworth_71 (BN),

Start 74:
• Found in 33 of 453 (7.3%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 6.1% of time when present
• Phage (with cluster) where this start called: Agamotto_44 (FR), Bugg_68 (DJ),

Start 76:
• Found in 3 of 453 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Dennebes_58 (BF),

Start 77:
• Found in 14 of 453 (3.1%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 21.4% of time when present
• Phage (with cluster) where this start called: Avazak_66 (DJ), Tairn4Wing_67 (DJ), Virizion_76 (BN),

Start 80:
• Found in 170 of 453 (37.5%) of genes in pham
• Manual Annotations of this start: 7 of 432
• Called 5.3% of time when present
• Phage (with cluster) where this start called: Bimmel_13 (BT), Dryad_75 (BN), Gibson_71 (BN), PHTowN_71 (BN), ShakeNBake_71 (BN), Shawty_45 (BB1), Success_13 (BT), Wilkos_73 (BN), phiBT1_20 (BB1),

Start 82:
• Found in 36 of 453 (7.9%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 5.6% of time when present
• Phage (with cluster) where this start called: Puginator_37 (BD2), phiCAM_34 (BD3),

Start 84:
• Found in 98 of 453 (21.6%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 1.0% of time when present
• Phage (with cluster) where this start called: Greenbelt_69 (BN),

Start 85:

• Found in 86 of 453 (19.0%) of genes in pham
• Manual Annotations of this start: 2 of 432
• Called 2.3% of time when present
• Phage (with cluster) where this start called: Caliburn_34 (BD1), Paolo_37 (BD2),

Start 86:
• Found in 7 of 453 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Boilgate_73 (K8),

Start 87:
• Found in 65 of 453 (14.3%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 3.1% of time when present
• Phage (with cluster) where this start called: ChickyNuggy_68 (DJ), Sebastisaurus_45 (BB2),

Start 89:
• Found in 46 of 453 (10.2%) of genes in pham
• Manual Annotations of this start: 11 of 432
• Called 23.9% of time when present
• Phage (with cluster) where this start called: Anedea_230 (BE1), ArianaSWT_220 (BE1), Bmoc_221 (BE1), Coogler_214 (BE1), Jay2Jay_222 (BE1), Leo04_217 (BE1), LilSaint_218 (BE1), PinkiePie_217 (BE1), Shuckle_214 (BE1), Targaryen_216 (BE1), Warpy_220 (BE1),

Start 93:
• Found in 45 of 453 (9.9%) of genes in pham
• Manual Annotations of this start: 20 of 432
• Called 44.4% of time when present
• Phage (with cluster) where this start called: Angela_219 (BE1), Bartholomune_217 (BE1), Braelyn_213 (BE1), Cursive_219 (BE1), Davielle_216 (BE1), Larnav_216 (BE1), LilMartin_216 (BE1), Navo_211 (BE1), NootNoot_214 (BE1), Paradiddles_209 (BE1), Persimmon_220 (BE1), PynkPanther_217 (BE1), Riptide_218 (BE1), Samisti12_221 (BE1), Scheme_220 (BE1), Sushi23_217 (BE1), Tribute_213 (BE1), WashU_211 (BE1), Watermoore_216 (BE1), WhereRU_216 (BE1),

Start 96:
• Found in 46 of 453 (10.2%) of genes in pham
• Manual Annotations of this start: 14 of 432
• Called 30.4% of time when present
• Phage (with cluster) where this start called: BlueOtter_215 (BE1), Cross_216 (BE1), EGole_220 (BE1), Evy_207 (BE1), FreddyDRoo_218 (BE1), HangryHippo_215 (BE1), Lululemon_213 (BE1), Marsus_219 (BE1), MulchMansion_220 (BE1), PacManQ_213 (BE1), Peebs_214 (BE1), Pepperwood_217 (BE1), Squillium_220 (BE1), Teutsch_216 (BE1),

Start 103:
• Found in 1 of 453 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 432
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mildred21_226 (BE1),

Summary by clusters:

There are 24 clusters represented in this pham: FR, DJ, BL, BN, BF, BT, JN, K8, A10, A19, BD4, A3, A2, BD1, A4, A7, A6, CQ2, CQ1, BB2, BB1, BD3, BD2, BE1,

Info for manual annotations of cluster A10:
•Start number 52 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A19:
•Start number 63 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 49 was manually annotated 15 times for cluster A2.

Info for manual annotations of cluster A3:
•Start number 37 was manually annotated 13 times for cluster A3.
•Start number 49 was manually annotated 23 times for cluster A3.
•Start number 51 was manually annotated 82 times for cluster A3.
•Start number 52 was manually annotated 5 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 52 was manually annotated 3 times for cluster A4.
•Start number 66 was manually annotated 28 times for cluster A4.

Info for manual annotations of cluster A6:
•Start number 50 was manually annotated 31 times for cluster A6.
•Start number 52 was manually annotated 14 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 52 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster BB1:
•Start number 57 was manually annotated 2 times for cluster BB1.
•Start number 66 was manually annotated 1 time for cluster BB1.
•Start number 80 was manually annotated 1 time for cluster BB1.

Info for manual annotations of cluster BB2:
•Start number 57 was manually annotated 1 time for cluster BB2.
•Start number 87 was manually annotated 1 time for cluster BB2.

Info for manual annotations of cluster BD1:
•Start number 51 was manually annotated 36 times for cluster BD1.
•Start number 59 was manually annotated 2 times for cluster BD1.
•Start number 61 was manually annotated 5 times for cluster BD1.
•Start number 62 was manually annotated 10 times for cluster BD1.
•Start number 85 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 58 was manually annotated 6 times for cluster BD2.
•Start number 59 was manually annotated 12 times for cluster BD2.
•Start number 62 was manually annotated 13 times for cluster BD2.
•Start number 82 was manually annotated 1 time for cluster BD2.

•Start number 85 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BD3:
•Start number 62 was manually annotated 16 times for cluster BD3.

Info for manual annotations of cluster BD4:
•Start number 64 was manually annotated 1 time for cluster BD4.

Info for manual annotations of cluster BE1:
•Start number 89 was manually annotated 11 times for cluster BE1.
•Start number 93 was manually annotated 20 times for cluster BE1.
•Start number 96 was manually annotated 14 times for cluster BE1.
•Start number 103 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BF:
•Start number 65 was manually annotated 10 times for cluster BF.
•Start number 67 was manually annotated 1 time for cluster BF.
•Start number 68 was manually annotated 3 times for cluster BF.
•Start number 69 was manually annotated 2 times for cluster BF.
•Start number 76 was manually annotated 1 time for cluster BF.

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

Info for manual annotations of cluster BN:
•Start number 56 was manually annotated 2 times for cluster BN.
•Start number 72 was manually annotated 2 times for cluster BN.
•Start number 80 was manually annotated 4 times for cluster BN.
•Start number 84 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster BT:
•Start number 71 was manually annotated 1 time for cluster BT.
•Start number 80 was manually annotated 2 times for cluster BT.

Info for manual annotations of cluster CQ1:
•Start number 49 was manually annotated 3 times for cluster CQ1.
•Start number 53 was manually annotated 4 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 49 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DJ:
•Start number 45 was manually annotated 2 times for cluster DJ.
•Start number 47 was manually annotated 4 times for cluster DJ.
•Start number 77 was manually annotated 1 time for cluster DJ.

Info for manual annotations of cluster FR:
•Start number 58 was manually annotated 6 times for cluster FR.
•Start number 66 was manually annotated 4 times for cluster FR.
•Start number 74 was manually annotated 1 time for cluster FR.

Info for manual annotations of cluster JN:
•Start number 60 was manually annotated 2 times for cluster JN.

Info for manual annotations of cluster K8:
•Start number 86 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: ACFishhook_40 Start: 28503, Stop: 28093, Start Num: 37
Candidate Starts for ACFishhook_40:
(9, 28701), (Start: 37 @28503 has 13 MA's), (Start: 51 @28476 has 118 MA's), (Start: 80 @28431 has 7 MA's), (118, 28260), (119, 28248),

Gene: AN3_37 Start: 28097, Stop: 27681, Start Num: 49
Candidate Starts for AN3_37:
(6, 28388), (8, 28376), (Start: 49 @28097 has 42 MA's), (119, 27866), (148, 27734), (156, 27713), (164, 27695),

Gene: AN9_40 Start: 28082, Stop: 27666, Start Num: 49
Candidate Starts for AN9_40:
(7, 28370), (Start: 49 @28082 has 42 MA's), (119, 27851), (148, 27719), (156, 27698), (164, 27680),

Gene: ANI8_40 Start: 28082, Stop: 27666, Start Num: 49
Candidate Starts for ANI8_40:
(7, 28370), (Start: 49 @28082 has 42 MA's), (119, 27851), (148, 27719), (156, 27698), (164, 27680),

Gene: Aaronocolus_34 Start: 25685, Stop: 26173, Start Num: 51
Candidate Starts for Aaronocolus_34:
(31, 25637), (Start: 51 @25685 has 118 MA's), (79, 25757), (Start: 85 @25802 has 2 MA's), (109, 25904), (139, 26021), (171, 26141), (178, 26168),

Gene: Abdiel_35 Start: 27799, Stop: 27323, Start Num: 66
Candidate Starts for Abdiel_35:
(Start: 66 @27799 has 33 MA's), (Start: 80 @27754 has 7 MA's), (112, 27616), (146, 27451), (149, 27439), (172, 27379), (177, 27367),

Gene: Aflac_63 Start: 46335, Stop: 46781, Start Num: 47
Candidate Starts for Aflac_63:
(24, 46263), (30, 46296), (44, 46326), (Start: 47 @46335 has 4 MA's), (Start: 87 @46467 has 1 MA's), (109, 46560), (135, 46668), (143, 46719),

Gene: Agamotto_44 Start: 32971, Stop: 32543, Start Num: 74
Candidate Starts for Agamotto_44:
(Start: 58 @33010 has 12 MA's), (Start: 74 @32971 has 1 MA's), (Start: 80 @32953 has 7 MA's), (Start: 85 @32914 has 2 MA's), (141, 32683), (148, 32641),

Gene: Aglet_41 Start: 28577, Stop: 28194, Start Num: 51
Candidate Starts for Aglet_41:
(Start: 37 @28604 has 13 MA's), (Start: 51 @28577 has 118 MA's), (Start: 80 @28532 has 7 MA's), (118, 28361), (119, 28349),

Gene: AgronaGT15_40 Start: 28395, Stop: 28012, Start Num: 51
Candidate Starts for AgronaGT15_40:

(Start: 37 @28422 has 13 MA's), (Start: 51 @28395 has 118 MA's), (Start: 74 @28368 has 1 MA's), (Start: 80 @28350 has 7 MA's), (118, 28179), (119, 28167),

Gene: Alsaber_36 Start: 27554, Stop: 27958, Start Num: 62
Candidate Starts for Alsaber_36:
(Start: 62 @27554 has 39 MA's), (Start: 82 @27608 has 1 MA's), (Start: 85 @27641 has 2 MA's), (94, 27674), (148, 27935), (150, 27941),

Gene: Alvy_37 Start: 27037, Stop: 27510, Start Num: 62
Candidate Starts for Alvy_37:
(Start: 62 @27037 has 39 MA's), (Start: 80 @27082 has 7 MA's), (Start: 82 @27091 has 1 MA's), (Start: 84 @27115 has 1 MA's), (94, 27157), (109, 27226), (171, 27478), (177, 27493),

Gene: Amela_35 Start: 28386, Stop: 28790, Start Num: 62
Candidate Starts for Amela_35:
(33, 28323), (Start: 62 @28386 has 39 MA's), (Start: 80 @28431 has 7 MA's), (Start: 82 @28440 has 1 MA's), (Start: 84 @28464 has 1 MA's), (98, 28524), (139, 28707), (148, 28767), (150, 28773),

Gene: Amethyst_34 Start: 26390, Stop: 26875, Start Num: 59
Candidate Starts for Amethyst_34:
(Start: 59 @26390 has 14 MA's), (Start: 84 @26474 has 1 MA's), (Start: 87 @26489 has 1 MA's), (136, 26705), (171, 26843), (177, 26858),

Gene: Andris_34 Start: 26452, Stop: 26937, Start Num: 59
Candidate Starts for Andris_34:
(Start: 59 @26452 has 14 MA's), (Start: 80 @26503 has 7 MA's), (Start: 84 @26536 has 1 MA's), (Start: 87 @26551 has 1 MA's), (91, 26575), (101, 26608), (128, 26740), (169, 26896), (171, 26905), (177, 26920),

Gene: Anedea_230 Start: 109729, Stop: 110043, Start Num: 89
Candidate Starts for Anedea_230:
(Start: 89 @109729 has 11 MA's), (Start: 93 @109741 has 20 MA's), (Start: 96 @109753 has 14 MA's), (104, 109780), (111, 109819), (117, 109840), (120, 109873), (122, 109888), (146, 110011), (149, 110023),

Gene: Angela_219 Start: 107471, Stop: 107788, Start Num: 93
Candidate Starts for Angela_219:
(78, 107390), (Start: 89 @107459 has 11 MA's), (Start: 93 @107471 has 20 MA's), (Start: 96 @107483 has 14 MA's), (104, 107510), (111, 107549), (120, 107603), (122, 107618), (143, 107720), (155, 107771), (157, 107774),

Gene: Animus_34 Start: 26897, Stop: 27370, Start Num: 62
Candidate Starts for Animus_34:
(Start: 62 @26897 has 39 MA's), (Start: 80 @26942 has 7 MA's), (Start: 82 @26951 has 1 MA's), (Start: 84 @26975 has 1 MA's), (94, 27017), (126, 27167), (171, 27338), (177, 27353),

Gene: AnnabelLee_43 Start: 29937, Stop: 29476, Start Num: 66
Candidate Starts for AnnabelLee_43:
(Start: 66 @29937 has 33 MA's), (Start: 74 @29910 has 1 MA's), (90, 29829), (107, 29769), (115, 29745), (141, 29622),

Gene: Anubis_43 Start: 28462, Stop: 28079, Start Num: 51
Candidate Starts for Anubis_43:

(Start: 37 @28489 has 13 MA's), (Start: 51 @28462 has 118 MA's), (Start: 80 @28417 has 7 MA's), (118, 28246), (119, 28234),

Gene: Aphelion_145 Start: 79977, Stop: 80369, Start Num: 49
Candidate Starts for Aphelion_145:
(Start: 49 @79977 has 42 MA's), (99, 80118), (144, 80310), (155, 80358),

Gene: ArianaSWT_220 Start: 109577, Stop: 109891, Start Num: 89
Candidate Starts for ArianaSWT_220:
(Start: 89 @109577 has 11 MA's), (Start: 93 @109589 has 20 MA's), (Start: 96 @109601 has 14 MA's), (111, 109667), (120, 109721), (122, 109736), (149, 109871),

Gene: Artemis2UCLA_40 Start: 26288, Stop: 25899, Start Num: 52
Candidate Starts for Artemis2UCLA_40:
(Start: 52 @26288 has 24 MA's), (100, 26144), (113, 26099), (119, 26057), (124, 26030),

Gene: Arturo_34 Start: 27863, Stop: 27384, Start Num: 66
Candidate Starts for Arturo_34:
(Start: 66 @27863 has 33 MA's), (144, 27530), (148, 27503),

Gene: Asten_34 Start: 26046, Stop: 26534, Start Num: 51
Candidate Starts for Asten_34:
(12, 25866), (16, 25902), (31, 25998), (Start: 51 @26046 has 118 MA's), (79, 26118), (Start: 84 @26154 has 1 MA's), (97, 26211), (138, 26376), (139, 26382), (171, 26502), (178, 26529),

Gene: Audell_43 Start: 32606, Stop: 32139, Start Num: 58
Candidate Starts for Audell_43:
(Start: 58 @32606 has 12 MA's), (Start: 74 @32567 has 1 MA's), (Start: 80 @32549 has 7 MA's), (Start: 85 @32510 has 2 MA's), (121, 32351), (141, 32279), (148, 32237),

Gene: AugsMagnumOpus_43 Start: 28568, Stop: 28185, Start Num: 51
Candidate Starts for AugsMagnumOpus_43:
(Start: 37 @28595 has 13 MA's), (Start: 51 @28568 has 118 MA's), (Start: 80 @28523 has 7 MA's), (118, 28352), (119, 28340),

Gene: Avazak_66 Start: 46911, Stop: 47336, Start Num: 77
Candidate Starts for Avazak_66:
(38, 46821), (Start: 77 @46911 has 1 MA's), (Start: 87 @46971 has 1 MA's), (91, 46992), (102, 47028), (109, 47064), (124, 47148), (149, 47256), (167, 47304), (170, 47307), (176, 47328),

Gene: Axiom_35 Start: 26619, Stop: 27098, Start Num: 59
Candidate Starts for Axiom_35:
(41, 26583), (Start: 59 @26619 has 14 MA's), (79, 26670), (Start: 84 @26706 has 1 MA's), (Start: 85 @26715 has 2 MA's), (Start: 87 @26721 has 1 MA's), (90, 26739), (171, 27066), (177, 27081),

Gene: B1_34 Start: 27319, Stop: 26933, Start Num: 49
Candidate Starts for B1_34:
(Start: 49 @27319 has 42 MA's),

Gene: BABullseye_40 Start: 26694, Stop: 26302, Start Num: 50
Candidate Starts for BABullseye_40:
(Start: 50 @26694 has 31 MA's), (100, 26547), (113, 26502), (119, 26460), (124, 26433),

Gene: BabyRay_36 Start: 27870, Stop: 27484, Start Num: 49
Candidate Starts for BabyRay_36:
(Start: 49 @27870 has 42 MA's), (115, 27672),

Gene: BangNhom_36 Start: 28100, Stop: 27660, Start Num: 66
Candidate Starts for BangNhom_36:
(Start: 66 @28100 has 33 MA's), (148, 27740), (149, 27737),

Gene: BarryBee_37 Start: 26056, Stop: 26544, Start Num: 51
Candidate Starts for BarryBee_37:
(12, 25876), (16, 25912), (31, 26008), (Start: 51 @26056 has 118 MA's), (79, 26128), (Start: 84 @26164 has 1 MA's), (Start: 85 @26173 has 2 MA's), (97, 26221), (138, 26386), (139, 26392), (171, 26512), (178, 26539),

Gene: BartholomewSD_37 Start: 27037, Stop: 27510, Start Num: 62
Candidate Starts for BartholomewSD_37:
(Start: 62 @27037 has 39 MA's), (Start: 80 @27082 has 7 MA's), (Start: 82 @27091 has 1 MA's), (Start: 84 @27115 has 1 MA's), (94, 27157), (109, 27226), (171, 27478), (177, 27493),

Gene: Bartholomune_217 Start: 107720, Stop: 108022, Start Num: 93
Candidate Starts for Bartholomune_217:
(Start: 89 @107708 has 11 MA's), (Start: 93 @107720 has 20 MA's), (Start: 96 @107732 has 14 MA's), (111, 107798), (117, 107819), (122, 107867), (129, 107894), (132, 107912), (149, 108002),

Gene: BeardedLady_35 Start: 25938, Stop: 26426, Start Num: 51
Candidate Starts for BeardedLady_35:
(Start: 51 @25938 has 118 MA's), (79, 26010), (Start: 85 @26055 has 2 MA's), (109, 26157), (139, 26274), (171, 26394), (178, 26421),

Gene: Beauxregard13_41 Start: 28603, Stop: 28193, Start Num: 37
Candidate Starts for Beauxregard13_41:
(Start: 37 @28603 has 13 MA's), (Start: 51 @28576 has 118 MA's), (Start: 80 @28531 has 7 MA's), (118, 28360), (119, 28348),

Gene: BellusTerra_36 Start: 27799, Stop: 27323, Start Num: 66
Candidate Starts for BellusTerra_36:
(Start: 66 @27799 has 33 MA's), (Start: 80 @27754 has 7 MA's), (112, 27616), (146, 27451), (149, 27439), (172, 27379), (177, 27367),

Gene: BennyP_40 Start: 26616, Stop: 26224, Start Num: 50
Candidate Starts for BennyP_40:
(Start: 50 @26616 has 31 MA's), (100, 26469), (113, 26424), (119, 26382), (124, 26355),

Gene: Bigflo_41 Start: 28575, Stop: 28192, Start Num: 51
Candidate Starts for Bigflo_41:
(Start: 37 @28602 has 13 MA's), (Start: 51 @28575 has 118 MA's), (Start: 80 @28530 has 7 MA's), (118, 28359), (119, 28347),

Gene: Bimmel_13 Start: 9210, Stop: 8830, Start Num: 80
Candidate Starts for Bimmel_13:
(35, 9318), (39, 9306), (Start: 80 @9210 has 7 MA's), (Start: 82 @9201 has 1 MA's), (83, 9189), (Start: 84 @9177 has 1 MA's), (91, 9141), (92, 9138), (116, 9054), (119, 9024), (139, 8952), (148, 8892), (149, 8889), (168, 8841),

Gene: BlessJoy_40 Start: 26611, Stop: 26219, Start Num: 50
Candidate Starts for BlessJoy_40:
(Start: 50 @26611 has 31 MA's), (100, 26464), (113, 26419), (119, 26377), (124, 26350),

Gene: Blinn1_41 Start: 26683, Stop: 26291, Start Num: 50
Candidate Starts for Blinn1_41:
(Start: 50 @26683 has 31 MA's), (100, 26536), (113, 26491), (119, 26449), (124, 26422),

Gene: Blue7_41 Start: 26619, Stop: 26230, Start Num: 50
Candidate Starts for Blue7_41:
(Start: 50 @26619 has 31 MA's), (119, 26388), (124, 26361), (148, 26256),

Gene: BlueBird_37 Start: 27799, Stop: 27413, Start Num: 49
Candidate Starts for BlueBird_37:
(Start: 49 @27799 has 42 MA's), (115, 27601),

Gene: BlueOtter_215 Start: 107854, Stop: 108144, Start Num: 96
Candidate Starts for BlueOtter_215:
(Start: 89 @107830 has 11 MA's), (Start: 93 @107842 has 20 MA's), (Start: 96 @107854 has 14 MA's), (111, 107920), (120, 107974), (122, 107989), (149, 108124),

Gene: Bmoc_221 Start: 107925, Stop: 108239, Start Num: 89
Candidate Starts for Bmoc_221:
(Start: 89 @107925 has 11 MA's), (Start: 93 @107937 has 20 MA's), (Start: 96 @107949 has 14 MA's), (104, 107976), (106, 107991), (111, 108015), (117, 108036), (120, 108069), (122, 108084), (146, 108207), (149, 108219),

Gene: Boilgate_73 Start: 53314, Stop: 53607, Start Num: 86
Candidate Starts for Boilgate_73:
(70, 53242), (Start: 86 @53314 has 1 MA's), (108, 53398), (139, 53524),

Gene: Bovely_34 Start: 25691, Stop: 26179, Start Num: 51
Candidate Starts for Bovely_34:
(31, 25643), (Start: 51 @25691 has 118 MA's), (79, 25763), (Start: 85 @25808 has 2 MA's), (109, 25910), (139, 26027), (171, 26147), (178, 26174),

Gene: Bowden_35 Start: 26947, Stop: 27420, Start Num: 62
Candidate Starts for Bowden_35:
(Start: 62 @26947 has 39 MA's), (Start: 80 @26992 has 7 MA's), (Start: 82 @27001 has 1 MA's), (Start: 84 @27025 has 1 MA's), (94, 27067), (109, 27136), (171, 27388), (177, 27403),

Gene: Braelyn_213 Start: 107367, Stop: 107669, Start Num: 93
Candidate Starts for Braelyn_213:
(Start: 89 @107355 has 11 MA's), (Start: 93 @107367 has 20 MA's), (Start: 96 @107379 has 14 MA's), (111, 107445), (117, 107466), (122, 107514), (129, 107541), (132, 107559), (149, 107649),

Gene: Brataylor_37 Start: 27039, Stop: 27515, Start Num: 62
Candidate Starts for Brataylor_37:
(31, 26973), (Start: 59 @27033 has 14 MA's), (Start: 62 @27039 has 39 MA's), (Start: 84 @27117 has 1 MA's), (Start: 87 @27132 has 1 MA's), (130, 27327), (149, 27426), (171, 27483), (177, 27498), (178, 27510),

Gene: BreSam8_41 Start: 28569, Stop: 28186, Start Num: 51
Candidate Starts for BreSam8_41:
(Start: 37 @28596 has 13 MA's), (Start: 51 @28569 has 118 MA's), (Start: 80 @28524 has 7 MA's), (118, 28353), (119, 28341),

Gene: BroPlease_35 Start: 26228, Stop: 26704, Start Num: 64
Candidate Starts for BroPlease_35:
(Start: 64 @26228 has 1 MA's), (Start: 80 @26273 has 7 MA's), (Start: 84 @26306 has 1 MA's), (Start: 85 @26315 has 2 MA's), (90, 26339), (138, 26543), (171, 26672),

Gene: BryanRecycles_35 Start: 26042, Stop: 26530, Start Num: 51
Candidate Starts for BryanRecycles_35:
(20, 25937), (31, 25994), (Start: 51 @26042 has 118 MA's), (79, 26114), (Start: 85 @26159 has 2 MA's), (109, 26261), (139, 26378), (171, 26498), (178, 26525),

Gene: Bugatti_37 Start: 27799, Stop: 27413, Start Num: 49
Candidate Starts for Bugatti_37:
(Start: 49 @27799 has 42 MA's), (115, 27601),

Gene: Bugg_68 Start: 46623, Stop: 47054, Start Num: 74
Candidate Starts for Bugg_68:
(38, 46539), (Start: 74 @46623 has 1 MA's), (Start: 77 @46629 has 1 MA's), (Start: 87 @46689 has 1 MA's), (91, 46710), (102, 46746), (109, 46782), (124, 46866), (149, 46974), (153, 46989), (167, 47022), (170, 47025), (176, 47046),

Gene: Burley_64 Start: 46068, Stop: 46514, Start Num: 47
Candidate Starts for Burley_64:
(26, 46002), (34, 46038), (44, 46059), (Start: 47 @46068 has 4 MA's), (Start: 87 @46197 has 1 MA's), (109, 46290), (135, 46398), (143, 46449),

Gene: BuzzBuzz_39 Start: 28574, Stop: 28191, Start Num: 51
Candidate Starts for BuzzBuzz_39:
(Start: 37 @28601 has 13 MA's), (Start: 51 @28574 has 118 MA's), (Start: 74 @28547 has 1 MA's), (Start: 80 @28529 has 7 MA's), (118, 28358), (119, 28346),

Gene: Bxz2_38 Start: 28581, Stop: 28198, Start Num: 51
Candidate Starts for Bxz2_38:
(Start: 37 @28608 has 13 MA's), (Start: 51 @28581 has 118 MA's), (Start: 74 @28554 has 1 MA's), (Start: 80 @28536 has 7 MA's), (118, 28365), (119, 28353),

Gene: C3_35 Start: 28082, Stop: 27666, Start Num: 49
Candidate Starts for C3_35:
(7, 28370), (Start: 49 @28082 has 42 MA's), (119, 27851), (148, 27719), (156, 27698), (164, 27680),

Gene: Caelum_36 Start: 26653, Stop: 27126, Start Num: 62
Candidate Starts for Caelum_36:
(Start: 62 @26653 has 39 MA's), (Start: 80 @26698 has 7 MA's), (Start: 82 @26707 has 1 MA's), (Start: 84 @26731 has 1 MA's), (Start: 85 @26740 has 2 MA's), (94, 26773), (126, 26923), (138, 26968), (171, 27094), (174, 27103), (177, 27109),

Gene: Caliburn_34 Start: 25785, Stop: 26156, Start Num: 85
Candidate Starts for Caliburn_34:

(31, 25620), (Start: 51 @25668 has 118 MA's), (79, 25740), (Start: 85 @25785 has 2 MA's), (109, 25887), (139, 26004), (171, 26124), (178, 26151),

Gene: Calvinny_40 Start: 28401, Stop: 28018, Start Num: 51
Candidate Starts for Calvinny_40:
(9, 28629), (Start: 37 @28428 has 13 MA's), (Start: 51 @28401 has 118 MA's), (Start: 80 @28356 has 7 MA's), (118, 28185), (119, 28173),

Gene: Candra_41 Start: 26652, Stop: 26260, Start Num: 50
Candidate Starts for Candra_41:
(Start: 50 @26652 has 31 MA's), (100, 26505), (113, 26460), (119, 26418), (124, 26391),

Gene: Caviar_35 Start: 27809, Stop: 27381, Start Num: 52
Candidate Starts for Caviar_35:
(Start: 51 @27812 has 118 MA's), (Start: 52 @27809 has 24 MA's), (Start: 80 @27764 has 7 MA's), (112, 27626), (149, 27449),

Gene: Celery_38 Start: 27479, Stop: 27883, Start Num: 62
Candidate Starts for Celery_38:
(Start: 62 @27479 has 39 MA's), (Start: 80 @27524 has 7 MA's), (Start: 82 @27533 has 1 MA's), (Start: 84 @27557 has 1 MA's), (Start: 85 @27566 has 2 MA's), (94, 27599), (139, 27800), (148, 27860), (150, 27866),

Gene: Celeste_35 Start: 26508, Stop: 26984, Start Num: 62
Candidate Starts for Celeste_35:
(31, 26442), (Start: 59 @26502 has 14 MA's), (Start: 62 @26508 has 39 MA's), (Start: 84 @26586 has 1 MA's), (Start: 87 @26601 has 1 MA's), (130, 26796), (149, 26895), (171, 26952),

Gene: Cerulean_37 Start: 28101, Stop: 27661, Start Num: 66
Candidate Starts for Cerulean_37:
(Start: 66 @28101 has 33 MA's), (148, 27741), (149, 27738),

Gene: ChampagnePapi_37 Start: 28100, Stop: 27660, Start Num: 66
Candidate Starts for ChampagnePapi_37:
(Start: 66 @28100 has 33 MA's), (148, 27740), (149, 27737),

Gene: Chartreuse_40 Start: 26563, Stop: 26171, Start Num: 50
Candidate Starts for Chartreuse_40:
(Start: 50 @26563 has 31 MA's), (100, 26416), (113, 26371), (119, 26329), (124, 26302),

Gene: ChickyNuggy_68 Start: 46712, Stop: 47077, Start Num: 87
Candidate Starts for ChickyNuggy_68:
(38, 46562), (Start: 74 @46646 has 1 MA's), (Start: 77 @46652 has 1 MA's), (Start: 87 @46712 has 1 MA's), (91, 46733), (102, 46769), (109, 46805), (124, 46889), (149, 46997), (153, 47012), (167, 47045), (170, 47048), (176, 47069),

Gene: ChipsNGuac_43 Start: 29940, Stop: 29479, Start Num: 66
Candidate Starts for ChipsNGuac_43:
(Start: 66 @29940 has 33 MA's), (Start: 74 @29913 has 1 MA's), (90, 29832), (107, 29772), (115, 29748), (141, 29625),

Gene: Chucky_34 Start: 26060, Stop: 26548, Start Num: 51
Candidate Starts for Chucky_34:

(12, 25880), (16, 25916), (31, 26012), (Start: 51 @26060 has 118 MA's), (79, 26132), (Start: 84 @26168 has 1 MA's), (Start: 85 @26177 has 2 MA's), (97, 26225), (138, 26390), (139, 26396), (171, 26516), (178, 26543),

Gene: Clammy_37 Start: 27799, Stop: 27413, Start Num: 49
Candidate Starts for Clammy_37:
(Start: 49 @27799 has 42 MA's), (115, 27601),

Gene: CloudWang3_40 Start: 26388, Stop: 25999, Start Num: 52
Candidate Starts for CloudWang3_40:
(Start: 52 @26388 has 24 MA's), (100, 26244), (113, 26199), (119, 26157), (124, 26130),

Gene: ClownCar_40 Start: 28420, Stop: 28010, Start Num: 37
Candidate Starts for ClownCar_40:
(Start: 37 @28420 has 13 MA's), (Start: 51 @28393 has 118 MA's), (Start: 80 @28348 has 7 MA's), (118, 28177), (119, 28165),

Gene: Commander_36 Start: 27803, Stop: 27324, Start Num: 66
Candidate Starts for Commander_36:
(Start: 66 @27803 has 33 MA's), (146, 27452), (149, 27440), (172, 27380), (177, 27368),

Gene: Conan_36 Start: 27448, Stop: 27852, Start Num: 62
Candidate Starts for Conan_36:
(12, 27253), (16, 27289), (33, 27388), (Start: 62 @27448 has 39 MA's), (Start: 82 @27502 has 1 MA's), (Start: 85 @27535 has 2 MA's), (94, 27568), (148, 27829), (150, 27835),

Gene: Coogler_214 Start: 108255, Stop: 108569, Start Num: 89
Candidate Starts for Coogler_214:
(Start: 89 @108255 has 11 MA's), (Start: 93 @108267 has 20 MA's), (Start: 96 @108279 has 14 MA's), (111, 108345), (120, 108399), (122, 108414), (149, 108549),

Gene: Cookiedough_40 Start: 26610, Stop: 26218, Start Num: 50
Candidate Starts for Cookiedough_40:
(Start: 50 @26610 has 31 MA's), (100, 26463), (113, 26418), (119, 26376), (124, 26349),

Gene: Cross_216 Start: 108499, Stop: 108789, Start Num: 96
Candidate Starts for Cross_216:
(Start: 89 @108475 has 11 MA's), (Start: 93 @108487 has 20 MA's), (Start: 96 @108499 has 14 MA's), (111, 108565), (120, 108619), (122, 108634), (149, 108769),

Gene: Cucurbita_145 Start: 80440, Stop: 80829, Start Num: 53
Candidate Starts for Cucurbita_145:
(Start: 53 @80440 has 4 MA's), (99, 80578), (149, 80800), (155, 80818),

Gene: Cullens_41 Start: 28575, Stop: 28192, Start Num: 51
Candidate Starts for Cullens_41:
(Start: 37 @28602 has 13 MA's), (Start: 51 @28575 has 118 MA's), (Start: 80 @28530 has 7 MA's), (118, 28359), (119, 28347),

Gene: Culver_146 Start: 78704, Stop: 79093, Start Num: 53
Candidate Starts for Culver_146:
(Start: 53 @78704 has 4 MA's), (99, 78842), (149, 79064), (155, 79082),

Gene: Cursive_219 Start: 108171, Stop: 108473, Start Num: 93
Candidate Starts for Cursive_219:
(Start: 89 @108159 has 11 MA's), (Start: 93 @108171 has 20 MA's), (Start: 96 @108183 has 14 MA's), (111, 108249), (120, 108303), (122, 108318), (149, 108453),

Gene: D29_36.1 Start: 27983, Stop: 27597, Start Num: 49
Candidate Starts for D29_36.1:
(Start: 49 @27983 has 42 MA's), (119, 27752),

Gene: D32_40 Start: 27983, Stop: 27597, Start Num: 49
Candidate Starts for D32_40:
(Start: 49 @27983 has 42 MA's), (119, 27752),

Gene: DBQu4n_40 Start: 27983, Stop: 27597, Start Num: 49
Candidate Starts for DBQu4n_40:
(Start: 49 @27983 has 42 MA's), (119, 27752),

Gene: DaHudson_41 Start: 28568, Stop: 28185, Start Num: 51
Candidate Starts for DaHudson_41:
(Start: 37 @28595 has 13 MA's), (Start: 51 @28568 has 118 MA's), (Start: 80 @28523 has 7 MA's), (118, 28352), (119, 28340),

Gene: Daishi_39 Start: 27415, Stop: 27032, Start Num: 51
Candidate Starts for Daishi_39:
(Start: 37 @27442 has 13 MA's), (Start: 51 @27415 has 118 MA's), (Start: 74 @27388 has 1 MA's), (Start: 80 @27370 has 7 MA's), (118, 27199), (119, 27187),

Gene: Danzina_36 Start: 26809, Stop: 27285, Start Num: 62
Candidate Starts for Danzina_36:
(31, 26743), (Start: 59 @26803 has 14 MA's), (Start: 62 @26809 has 39 MA's), (Start: 84 @26887 has 1 MA's), (Start: 87 @26902 has 1 MA's), (130, 27097), (149, 27196), (171, 27253), (177, 27268), (178, 27280),

Gene: Dattran_36 Start: 26615, Stop: 27091, Start Num: 62
Candidate Starts for Dattran_36:
(31, 26549), (Start: 59 @26609 has 14 MA's), (Start: 62 @26615 has 39 MA's), (Start: 84 @26693 has 1 MA's), (Start: 87 @26708 has 1 MA's), (130, 26903), (149, 27002), (171, 27059),

Gene: Daudau_35 Start: 26779, Stop: 27237, Start Num: 58
Candidate Starts for Daudau_35:
(40, 26740), (Start: 58 @26779 has 12 MA's), (Start: 80 @26824 has 7 MA's), (Start: 84 @26857 has 1 MA's), (Start: 85 @26866 has 2 MA's), (Start: 86 @26869 has 1 MA's), (138, 27079), (139, 27085), (144, 27118), (171, 27205), (177, 27220),

Gene: Davielle_216 Start: 107765, Stop: 108067, Start Num: 93
Candidate Starts for Davielle_216:
(Start: 89 @107753 has 11 MA's), (Start: 93 @107765 has 20 MA's), (Start: 96 @107777 has 14 MA's), (111, 107843), (117, 107864), (122, 107912), (129, 107939), (132, 107957), (149, 108047),

Gene: Dennebes_58 Start: 29550, Stop: 29158, Start Num: 76
Candidate Starts for Dennebes_58:
(Start: 65 @29577 has 10 MA's), (Start: 76 @29550 has 1 MA's), (Start: 84 @29505 has 1 MA's), (133, 29295),

Gene: Destructrice_53 Start: 29352, Stop: 28939, Start Num: 69
Candidate Starts for Destructrice_53:
(Start: 69 @29352 has 2 MA's), (73, 29334), (Start: 87 @29268 has 1 MA's), (146, 29007),

Gene: Dexers_34 Start: 27476, Stop: 27880, Start Num: 62
Candidate Starts for Dexers_34:
(Start: 62 @27476 has 39 MA's), (Start: 82 @27530 has 1 MA's), (Start: 85 @27563 has 2 MA's), (94, 27596), (148, 27857), (150, 27863),

Gene: Diane_34 Start: 26663, Stop: 27148, Start Num: 59
Candidate Starts for Diane_34:
(Start: 59 @26663 has 14 MA's), (Start: 84 @26747 has 1 MA's), (Start: 87 @26762 has 1 MA's), (136, 26978), (171, 27116), (177, 27131),

Gene: Dieselweasel_41 Start: 28578, Stop: 28195, Start Num: 51
Candidate Starts for Dieselweasel_41:
(Start: 37 @28605 has 13 MA's), (Start: 51 @28578 has 118 MA's), (Start: 80 @28533 has 7 MA's), (118, 28362), (119, 28350),

Gene: DontArgue_35 Start: 26801, Stop: 26325, Start Num: 52
Candidate Starts for DontArgue_35:
(14, 26966), (Start: 52 @26801 has 24 MA's), (Start: 80 @26756 has 7 MA's), (Start: 84 @26723 has 1 MA's), (Start: 85 @26714 has 2 MA's), (Start: 86 @26711 has 1 MA's), (135, 26525), (145, 26459), (148, 26444), (154, 26426),

Gene: Dorothea_40 Start: 26617, Stop: 26225, Start Num: 50
Candidate Starts for Dorothea_40:
(Start: 50 @26617 has 31 MA's), (100, 26470), (113, 26425), (119, 26383), (124, 26356),

Gene: DropBear_36 Start: 27866, Stop: 27480, Start Num: 49
Candidate Starts for DropBear_36:
(Start: 49 @27866 has 42 MA's), (115, 27668),

Gene: Dryad_75 Start: 51427, Stop: 51068, Start Num: 80
Candidate Starts for Dryad_75:
(Start: 56 @51487 has 2 MA's), (Start: 80 @51427 has 7 MA's), (Start: 84 @51394 has 1 MA's), (137, 51175),

Gene: Duplo_40 Start: 28021, Stop: 27635, Start Num: 49
Candidate Starts for Duplo_40:
(Start: 49 @28021 has 42 MA's), (119, 27790),

Gene: DustyMartin_39 Start: 27581, Stop: 27105, Start Num: 52
Candidate Starts for DustyMartin_39:
(Start: 37 @27617 has 13 MA's), (Start: 52 @27581 has 24 MA's), (Start: 80 @27536 has 7 MA's), (Start: 84 @27503 has 1 MA's), (Start: 85 @27494 has 2 MA's), (Start: 86 @27491 has 1 MA's), (145, 27239), (148, 27224), (154, 27206),

Gene: Dwayne_34 Start: 26047, Stop: 26535, Start Num: 51
Candidate Starts for Dwayne_34:
(12, 25867), (16, 25903), (31, 25999), (Start: 51 @26047 has 118 MA's), (79, 26119), (Start: 84 @26155 has 1 MA's), (Start: 85 @26164 has 2 MA's), (97, 26212), (138, 26377), (139, 26383), (171,

26503), (178, 26530),

Gene: EGole_220 Start: 110229, Stop: 110519, Start Num: 96
Candidate Starts for EGole_220:
(Start: 89 @110205 has 11 MA's), (Start: 93 @110217 has 20 MA's), (Start: 96 @110229 has 14 MA's), (111, 110295), (120, 110349), (122, 110364), (149, 110499),

Gene: ELB20_33 Start: 27045, Stop: 27530, Start Num: 59
Candidate Starts for ELB20_33:
(Start: 59 @27045 has 14 MA's), (Start: 84 @27129 has 1 MA's), (Start: 87 @27144 has 1 MA's), (101, 27201), (128, 27333), (138, 27372), (171, 27498), (177, 27513),

Gene: Eagle_35 Start: 27823, Stop: 27347, Start Num: 66
Candidate Starts for Eagle_35:
(Start: 66 @27823 has 33 MA's), (Start: 80 @27778 has 7 MA's), (112, 27640), (146, 27475), (149, 27463), (172, 27403), (177, 27391),

Gene: Eddasa_35 Start: 26042, Stop: 26530, Start Num: 51
Candidate Starts for Eddasa_35:
(20, 25937), (31, 25994), (Start: 51 @26042 has 118 MA's), (79, 26114), (Start: 85 @26159 has 2 MA's), (109, 26261), (139, 26378), (171, 26498), (178, 26525),

Gene: Ejemplo_33 Start: 25988, Stop: 26476, Start Num: 51
Candidate Starts for Ejemplo_33:
(14, 25820), (29, 25937), (Start: 51 @25988 has 118 MA's), (79, 26060), (Start: 84 @26096 has 1 MA's), (Start: 85 @26105 has 2 MA's), (97, 26153), (138, 26318), (139, 26324), (171, 26444), (178, 26471),

Gene: ElGato_36 Start: 27112, Stop: 27516, Start Num: 62
Candidate Starts for ElGato_36:
(12, 26917), (33, 27052), (Start: 62 @27112 has 39 MA's), (Start: 82 @27166 has 1 MA's), (Start: 85 @27199 has 2 MA's), (94, 27232), (148, 27493), (150, 27499),

Gene: Emaanora_37 Start: 26005, Stop: 26493, Start Num: 51
Candidate Starts for Emaanora_37:
(12, 25825), (16, 25861), (31, 25957), (Start: 51 @26005 has 118 MA's), (79, 26077), (Start: 84 @26113 has 1 MA's), (Start: 85 @26122 has 2 MA's), (97, 26170), (138, 26335), (139, 26341), (171, 26461), (178, 26488),

Gene: EnochSoames_37 Start: 26037, Stop: 26525, Start Num: 51
Candidate Starts for EnochSoames_37:
(20, 25932), (31, 25989), (Start: 51 @26037 has 118 MA's), (79, 26109), (Start: 85 @26154 has 2 MA's), (109, 26256), (139, 26373), (171, 26493), (178, 26520),

Gene: EpicPhail_41 Start: 28576, Stop: 28193, Start Num: 51
Candidate Starts for EpicPhail_41:
(Start: 37 @28603 has 13 MA's), (Start: 51 @28576 has 118 MA's), (Start: 80 @28531 has 7 MA's), (118, 28360), (119, 28348),

Gene: Esperer_34 Start: 25504, Stop: 25992, Start Num: 51
Candidate Starts for Esperer_34:
(31, 25456), (Start: 51 @25504 has 118 MA's), (79, 25576), (Start: 85 @25621 has 2 MA's), (109, 25723), (139, 25840), (171, 25960), (178, 25987),

Gene: Eurydice_36 Start: 27798, Stop: 27322, Start Num: 66
Candidate Starts for Eurydice_36:
(Start: 66 @27798 has 33 MA's), (Start: 80 @27753 has 7 MA's), (112, 27615), (146, 27450), (149, 27438), (172, 27378), (177, 27366),

Gene: Evy_207 Start: 108670, Stop: 108960, Start Num: 96
Candidate Starts for Evy_207:
(Start: 89 @108646 has 11 MA's), (Start: 93 @108658 has 20 MA's), (Start: 96 @108670 has 14 MA's), (111, 108736), (120, 108790), (122, 108805), (149, 108940),

Gene: Fabian_51 Start: 29095, Stop: 28676, Start Num: 65
Candidate Starts for Fabian_51:
(Start: 65 @29095 has 10 MA's), (Start: 76 @29068 has 1 MA's), (Start: 84 @29023 has 1 MA's), (133, 28813),

Gene: Farber_41 Start: 28569, Stop: 28186, Start Num: 51
Candidate Starts for Farber_41:
(Start: 37 @28596 has 13 MA's), (Start: 51 @28569 has 118 MA's), (Start: 80 @28524 has 7 MA's), (118, 28353), (119, 28341),

Gene: Fernando_41 Start: 28575, Stop: 28192, Start Num: 51
Candidate Starts for Fernando_41:
(Start: 37 @28602 has 13 MA's), (Start: 51 @28575 has 118 MA's), (Start: 80 @28530 has 7 MA's), (118, 28359), (119, 28347),

Gene: Fred313_36 Start: 27551, Stop: 27165, Start Num: 49
Candidate Starts for Fred313_36:
(Start: 49 @27551 has 42 MA's), (115, 27353),

Gene: FreddyDRoo_218 Start: 107548, Stop: 107838, Start Num: 96
Candidate Starts for FreddyDRoo_218:
(Start: 89 @107524 has 11 MA's), (Start: 93 @107536 has 20 MA's), (Start: 96 @107548 has 14 MA's), (111, 107614), (117, 107635), (122, 107683), (129, 107710), (132, 107728), (149, 107818),

Gene: Gemma_40 Start: 28397, Stop: 28014, Start Num: 51
Candidate Starts for Gemma_40:
(9, 28625), (Start: 37 @28424 has 13 MA's), (Start: 51 @28397 has 118 MA's), (Start: 80 @28352 has 7 MA's), (118, 28181), (119, 28169),

Gene: Gerri43_43 Start: 29940, Stop: 29479, Start Num: 66
Candidate Starts for Gerri43_43:
(Start: 66 @29940 has 33 MA's), (Start: 74 @29913 has 1 MA's), (90, 29832), (107, 29772), (115, 29748), (141, 29625),

Gene: Gibson_71 Start: 50674, Stop: 50318, Start Num: 80
Candidate Starts for Gibson_71:
(Start: 56 @50734 has 2 MA's), (Start: 72 @50698 has 2 MA's), (Start: 77 @50686 has 1 MA's), (Start: 80 @50674 has 7 MA's), (81, 50668), (83, 50653), (Start: 85 @50632 has 2 MA's), (120, 50476), (125, 50452), (139, 50413), (140, 50410), (151, 50356), (154, 50347),

Gene: GingkoMaracino_41 Start: 28489, Stop: 28079, Start Num: 37
Candidate Starts for GingkoMaracino_41:

(Start: 37 @28489 has 13 MA's), (Start: 51 @28462 has 118 MA's), (Start: 80 @28417 has 7 MA's), (118, 28246), (119, 28234),

Gene: GirlDinner_34 Start: 26398, Stop: 26871, Start Num: 62
Candidate Starts for GirlDinner_34:
(Start: 62 @26398 has 39 MA's), (Start: 80 @26443 has 7 MA's), (Start: 82 @26452 has 1 MA's), (Start: 84 @26476 has 1 MA's), (94, 26518), (126, 26668), (171, 26839), (177, 26854),

Gene: Giroux_37 Start: 27798, Stop: 27412, Start Num: 49
Candidate Starts for Giroux_37:
(Start: 49 @27798 has 42 MA's), (115, 27600),

Gene: Gladiator_40 Start: 26599, Stop: 26207, Start Num: 50
Candidate Starts for Gladiator_40:
(Start: 50 @26599 has 31 MA's), (100, 26452), (113, 26407), (119, 26365), (124, 26338),

Gene: Goby_34 Start: 26511, Stop: 26990, Start Num: 61
Candidate Starts for Goby_34:
(Start: 61 @26511 has 5 MA's), (Start: 84 @26592 has 1 MA's), (Start: 87 @26607 has 1 MA's), (130, 26802), (171, 26958), (177, 26973),

Gene: Godpower_35 Start: 26506, Stop: 26985, Start Num: 61
Candidate Starts for Godpower_35:
(Start: 61 @26506 has 5 MA's), (Start: 84 @26587 has 1 MA's), (Start: 87 @26602 has 1 MA's), (130, 26797), (171, 26953), (177, 26968),

Gene: Greenbelt_69 Start: 46762, Stop: 46442, Start Num: 84
Candidate Starts for Greenbelt_69:
(21, 46969), (Start: 59 @46846 has 14 MA's), (Start: 84 @46762 has 1 MA's), (Start: 87 @46747 has 1 MA's), (88, 46744), (94, 46723), (121, 46585), (124, 46576), (140, 46531), (156, 46465), (161, 46456), (162, 46453),

Gene: Grif_41 Start: 28650, Stop: 28267, Start Num: 51
Candidate Starts for Grif_41:
(Start: 37 @28677 has 13 MA's), (Start: 51 @28650 has 118 MA's), (Start: 80 @28605 has 7 MA's), (118, 28434), (119, 28422),

Gene: Groupthink_41 Start: 28401, Stop: 28018, Start Num: 51
Candidate Starts for Groupthink_41:
(9, 28629), (Start: 37 @28428 has 13 MA's), (Start: 51 @28401 has 118 MA's), (Start: 80 @28356 has 7 MA's), (118, 28185), (119, 28173),

Gene: Grub_41 Start: 28595, Stop: 28185, Start Num: 37
Candidate Starts for Grub_41:
(Start: 37 @28595 has 13 MA's), (Start: 51 @28568 has 118 MA's), (Start: 80 @28523 has 7 MA's), (118, 28352), (119, 28340),

Gene: Grum1_41 Start: 28602, Stop: 28192, Start Num: 37
Candidate Starts for Grum1_41:
(Start: 37 @28602 has 13 MA's), (Start: 51 @28575 has 118 MA's), (Start: 80 @28530 has 7 MA's), (118, 28359), (119, 28347),

Gene: Gruunaga_40 Start: 26598, Stop: 26206, Start Num: 50

Candidate Starts for Gruunaga_40:
(Start: 50 @26598 has 31 MA's), (100, 26451), (113, 26406), (119, 26364), (124, 26337),

Gene: GtownJaz_41 Start: 28577, Stop: 28194, Start Num: 51
Candidate Starts for GtownJaz_41:
(Start: 37 @28604 has 13 MA's), (Start: 51 @28577 has 118 MA's), (Start: 80 @28532 has 7 MA's), (118, 28361), (119, 28349),

Gene: HINdeR_35 Start: 29947, Stop: 29549, Start Num: 52
Candidate Starts for HINdeR_35:
(Start: 52 @29947 has 24 MA's), (119, 29719), (138, 29653), (148, 29587), (160, 29557),

Gene: Haizum_36 Start: 26732, Stop: 27217, Start Num: 59
Candidate Starts for Haizum_36:
(Start: 59 @26732 has 14 MA's), (Start: 84 @26816 has 1 MA's), (Start: 87 @26831 has 1 MA's), (136, 27047), (171, 27185), (177, 27200),

Gene: Hammer_40 Start: 26429, Stop: 26040, Start Num: 50
Candidate Starts for Hammer_40:
(Start: 50 @26429 has 31 MA's), (119, 26198), (124, 26171), (148, 26066),

Gene: HangryHippo_215 Start: 107854, Stop: 108144, Start Num: 96
Candidate Starts for HangryHippo_215:
(Start: 89 @107830 has 11 MA's), (Start: 93 @107842 has 20 MA's), (Start: 96 @107854 has 14 MA's), (111, 107920), (120, 107974), (122, 107989), (149, 108124),

Gene: Hank144_36 Start: 26811, Stop: 27266, Start Num: 58
Candidate Starts for Hank144_36:
(Start: 58 @26811 has 12 MA's), (Start: 77 @26844 has 1 MA's), (Start: 80 @26856 has 7 MA's), (Start: 84 @26889 has 1 MA's), (Start: 85 @26898 has 2 MA's), (139, 27117), (171, 27234), (177, 27249),

Gene: HashRod_41 Start: 28574, Stop: 28191, Start Num: 51
Candidate Starts for HashRod_41:
(Start: 37 @28601 has 13 MA's), (Start: 51 @28574 has 118 MA's), (Start: 74 @28547 has 1 MA's), (Start: 80 @28529 has 7 MA's), (118, 28358), (119, 28346),

Gene: HaugeAnator_54 Start: 29438, Stop: 29022, Start Num: 65
Candidate Starts for HaugeAnator_54:
(46, 29480), (Start: 65 @29438 has 10 MA's), (Start: 87 @29351 has 1 MA's), (110, 29255), (112, 29252), (114, 29246), (127, 29168),

Gene: HaveUMetTed_41 Start: 28394, Stop: 28011, Start Num: 51
Candidate Starts for HaveUMetTed_41:
(Start: 37 @28421 has 13 MA's), (Start: 51 @28394 has 118 MA's), (Start: 80 @28349 has 7 MA's), (118, 28178), (119, 28166),

Gene: Heathen_36 Start: 27607, Stop: 27221, Start Num: 49
Candidate Starts for Heathen_36:
(Start: 49 @27607 has 42 MA's), (115, 27409),

Gene: HelDan_36 Start: 27859, Stop: 27473, Start Num: 49
Candidate Starts for HelDan_36:

(Start: 49 @27859 has 42 MA's), (115, 27661),

Gene: Heliosoles_40 Start: 28401, Stop: 28018, Start Num: 51
Candidate Starts for Heliosoles_40:
(9, 28632), (Start: 37 @28428 has 13 MA's), (Start: 51 @28401 has 118 MA's), (Start: 80 @28356 has 7 MA's), (118, 28185), (119, 28173),

Gene: Helmet_41 Start: 26617, Stop: 26225, Start Num: 50
Candidate Starts for Helmet_41:
(Start: 50 @26617 has 31 MA's), (100, 26470), (113, 26425), (119, 26383), (124, 26356),

Gene: Hercules11_41 Start: 28611, Stop: 28201, Start Num: 37
Candidate Starts for Hercules11_41:
(Start: 37 @28611 has 13 MA's), (Start: 51 @28584 has 118 MA's), (Start: 80 @28539 has 7 MA's), (118, 28368), (119, 28356),

Gene: Hexamo_40 Start: 26376, Stop: 25987, Start Num: 52
Candidate Starts for Hexamo_40:
(Start: 52 @26376 has 24 MA's), (100, 26232), (113, 26187), (119, 26145), (124, 26118),

Gene: Hippo_34 Start: 26056, Stop: 26544, Start Num: 51
Candidate Starts for Hippo_34:
(12, 25876), (16, 25912), (31, 26008), (Start: 51 @26056 has 118 MA's), (79, 26128), (Start: 84 @26164 has 1 MA's), (Start: 85 @26173 has 2 MA's), (97, 26221), (109, 26275), (125, 26350), (138, 26386), (139, 26392), (171, 26512), (178, 26539),

Gene: Hookmount_35 Start: 27810, Stop: 27382, Start Num: 52
Candidate Starts for Hookmount_35:
(Start: 51 @27813 has 118 MA's), (Start: 52 @27810 has 24 MA's), (Start: 80 @27765 has 7 MA's), (112, 27627), (149, 27450),

Gene: Hoot_40 Start: 26594, Stop: 26202, Start Num: 50
Candidate Starts for Hoot_40:
(Start: 50 @26594 has 31 MA's), (100, 26447), (113, 26402), (119, 26360), (124, 26333),

Gene: Hydra_36 Start: 26216, Stop: 26704, Start Num: 51
Candidate Starts for Hydra_36:
(31, 26168), (Start: 51 @26216 has 118 MA's), (79, 26288), (Start: 85 @26333 has 2 MA's), (109, 26435), (139, 26552), (171, 26672), (178, 26699),

Gene: Ibantik_13 Start: 5594, Stop: 5154, Start Num: 60
Candidate Starts for Ibantik_13:
(Start: 60 @5594 has 2 MA's), (139, 5291), (165, 5186),

Gene: Idleandcovert_36 Start: 27799, Stop: 27413, Start Num: 49
Candidate Starts for Idleandcovert_36:
(Start: 49 @27799 has 42 MA's), (115, 27601),

Gene: Imbriano_41 Start: 26616, Stop: 26224, Start Num: 50
Candidate Starts for Imbriano_41:
(Start: 50 @26616 has 31 MA's), (100, 26469), (113, 26424), (119, 26382), (124, 26355),

Gene: Immanuel3_53 Start: 29441, Stop: 29025, Start Num: 65

Candidate Starts for Immanuel3_53:
(46, 29483), (Start: 65 @29441 has 10 MA's), (Start: 87 @29354 has 1 MA's), (97, 29315), (109, 29264), (114, 29249), (115, 29243),

Gene: Indigo_33 Start: 25684, Stop: 26172, Start Num: 51
Candidate Starts for Indigo_33:
(31, 25636), (Start: 51 @25684 has 118 MA's), (79, 25756), (Start: 85 @25801 has 2 MA's), (109, 25903), (139, 26020), (171, 26140), (178, 26167),

Gene: Indra_42 Start: 26618, Stop: 26226, Start Num: 50
Candidate Starts for Indra_42:
(Start: 50 @26618 has 31 MA's), (100, 26471), (113, 26426), (119, 26384), (124, 26357),

Gene: Iracema64_36 Start: 28062, Stop: 27583, Start Num: 66
Candidate Starts for Iracema64_36:
(Start: 66 @28062 has 33 MA's), (144, 27729), (148, 27702),

Gene: Isca_36 Start: 27568, Stop: 27182, Start Num: 49
Candidate Starts for Isca_36:
(Start: 49 @27568 has 42 MA's),

Gene: Isiphiwo_40 Start: 26688, Stop: 26296, Start Num: 50
Candidate Starts for Isiphiwo_40:
(Start: 50 @26688 has 31 MA's), (100, 26541), (113, 26496), (119, 26454), (124, 26427), (125, 26424),

Gene: Issmi_36 Start: 27365, Stop: 27823, Start Num: 58
Candidate Starts for Issmi_36:
(Start: 58 @27365 has 12 MA's), (Start: 80 @27410 has 7 MA's), (Start: 84 @27443 has 1 MA's), (Start: 85 @27452 has 2 MA's), (138, 27665), (139, 27671), (144, 27704), (171, 27791), (177, 27806),

Gene: Izzy_35 Start: 26089, Stop: 26577, Start Num: 51
Candidate Starts for Izzy_35:
(20, 25984), (31, 26041), (Start: 51 @26089 has 118 MA's), (79, 26161), (Start: 85 @26206 has 2 MA's), (109, 26308), (139, 26425), (171, 26545), (178, 26572),

Gene: JF2_36 Start: 27319, Stop: 26933, Start Num: 49
Candidate Starts for JF2_36:
(Start: 49 @27319 has 42 MA's),

Gene: JF4_36 Start: 27319, Stop: 26933, Start Num: 49
Candidate Starts for JF4_36:
(Start: 49 @27319 has 42 MA's),

Gene: JHC117_41 Start: 28574, Stop: 28191, Start Num: 51
Candidate Starts for JHC117_41:
(Start: 37 @28601 has 13 MA's), (Start: 51 @28574 has 118 MA's), (Start: 80 @28529 has 7 MA's), (118, 28358), (119, 28346),

Gene: Janus_35 Start: 26738, Stop: 27211, Start Num: 62
Candidate Starts for Janus_35:
(Start: 62 @26738 has 39 MA's), (Start: 80 @26783 has 7 MA's), (Start: 82 @26792 has 1 MA's), (Start: 84 @26816 has 1 MA's), (Start: 85 @26825 has 2 MA's), (94, 26858), (126, 27008), (171, 27179), (177, 27194),

Gene: Jash_35 Start: 26042, Stop: 26530, Start Num: 51
Candidate Starts for Jash_35:
(20, 25937), (31, 25994), (Start: 51 @26042 has 118 MA's), (79, 26114), (Start: 85 @26159 has 2 MA's), (109, 26261), (139, 26378), (171, 26498), (178, 26525),

Gene: Jay2Jay_222 Start: 108801, Stop: 109115, Start Num: 89
Candidate Starts for Jay2Jay_222:
(Start: 89 @108801 has 11 MA's), (Start: 93 @108813 has 20 MA's), (Start: 96 @108825 has 14 MA's), (111, 108891), (120, 108945), (122, 108960), (149, 109095),

Gene: Jeffabunny_40 Start: 26412, Stop: 26023, Start Num: 52
Candidate Starts for Jeffabunny_40:
(Start: 52 @26412 has 24 MA's), (100, 26268), (113, 26223), (119, 26181), (124, 26154),

Gene: JenCasNa_41 Start: 28575, Stop: 28192, Start Num: 51
Candidate Starts for JenCasNa_41:
(Start: 37 @28602 has 13 MA's), (Start: 51 @28575 has 118 MA's), (Start: 80 @28530 has 7 MA's), (118, 28359), (119, 28347),

Gene: JeppNRM_41 Start: 28399, Stop: 28016, Start Num: 51
Candidate Starts for JeppNRM_41:
(9, 28630), (Start: 37 @28426 has 13 MA's), (Start: 51 @28399 has 118 MA's), (Start: 80 @28354 has 7 MA's), (118, 28183), (119, 28171),

Gene: Jevington_37 Start: 27148, Stop: 27609, Start Num: 58
Candidate Starts for Jevington_37:
(Start: 58 @27148 has 12 MA's), (Start: 80 @27196 has 7 MA's), (Start: 84 @27229 has 1 MA's), (138, 27451), (139, 27457), (144, 27490), (171, 27577), (177, 27592),

Gene: JewelBug_41 Start: 26622, Stop: 26230, Start Num: 50
Candidate Starts for JewelBug_41:
(Start: 50 @26622 has 31 MA's), (100, 26475), (113, 26430), (119, 26388), (124, 26361),

Gene: Jhitchelle_34 Start: 26984, Stop: 27391, Start Num: 62
Candidate Starts for Jhitchelle_34:
(33, 26924), (Start: 62 @26984 has 39 MA's), (Start: 82 @27041 has 1 MA's), (Start: 84 @27065 has 1 MA's), (Start: 85 @27074 has 2 MA's), (94, 27107), (98, 27125), (109, 27176), (116, 27191), (126, 27257), (139, 27308), (148, 27368), (150, 27374),

Gene: Jobu08_40 Start: 28405, Stop: 28022, Start Num: 51
Candidate Starts for Jobu08_40:
(Start: 37 @28432 has 13 MA's), (Start: 51 @28405 has 118 MA's), (Start: 80 @28360 has 7 MA's), (118, 28189), (119, 28177),

Gene: Jordennis_40 Start: 26606, Stop: 26214, Start Num: 50
Candidate Starts for Jordennis_40:
(Start: 50 @26606 has 31 MA's), (100, 26459), (113, 26414), (119, 26372), (124, 26345),

Gene: KADY_41 Start: 28574, Stop: 28191, Start Num: 51
Candidate Starts for KADY_41:
(Start: 37 @28601 has 13 MA's), (Start: 51 @28574 has 118 MA's), (Start: 74 @28547 has 1 MA's), (Start: 80 @28529 has 7 MA's), (118, 28358), (119, 28346),

Gene: Kachowdy_36 Start: 27859, Stop: 27473, Start Num: 49
Candidate Starts for Kachowdy_36:
(Start: 49 @27859 has 42 MA's), (115, 27661),

Gene: Kaine_35 Start: 27263, Stop: 27667, Start Num: 62
Candidate Starts for Kaine_35:
(Start: 62 @27263 has 39 MA's), (Start: 82 @27317 has 1 MA's), (Start: 85 @27350 has 2 MA's), (94, 27383), (148, 27644), (150, 27650),

Gene: Kalb97_41 Start: 28400, Stop: 28017, Start Num: 51
Candidate Starts for Kalb97_41:
(9, 28628), (Start: 37 @28427 has 13 MA's), (Start: 51 @28400 has 118 MA's), (Start: 80 @28355 has 7 MA's), (118, 28184), (119, 28172),

Gene: Kalnoky_41 Start: 28401, Stop: 28018, Start Num: 51
Candidate Starts for Kalnoky_41:
(9, 28626), (Start: 37 @28428 has 13 MA's), (Start: 51 @28401 has 118 MA's), (Start: 80 @28356 has 7 MA's), (118, 28185), (119, 28173),

Gene: Katalie_34 Start: 26236, Stop: 26655, Start Num: 62
Candidate Starts for Katalie_34:
(Start: 62 @26236 has 39 MA's), (79, 26281), (Start: 80 @26284 has 7 MA's), (Start: 85 @26326 has 2 MA's), (98, 26377), (101, 26386), (109, 26428), (131, 26530),

Gene: Kazan_41 Start: 26622, Stop: 26230, Start Num: 50
Candidate Starts for Kazan_41:
(Start: 50 @26622 has 31 MA's), (100, 26475), (113, 26430), (119, 26388), (124, 26361),

Gene: Kerberos_40 Start: 27983, Stop: 27597, Start Num: 49
Candidate Starts for Kerberos_40:
(Start: 49 @27983 has 42 MA's), (119, 27752),

Gene: Kimona_33 Start: 25900, Stop: 25490, Start Num: 63
Candidate Starts for Kimona_33:
(Start: 63 @25900 has 1 MA's), (101, 25753), (119, 25672), (144, 25567),

Gene: Kipper29_40 Start: 26610, Stop: 26224, Start Num: 52
Candidate Starts for Kipper29_40:
(Start: 52 @26610 has 24 MA's), (119, 26382), (124, 26355),

Gene: Koko_40 Start: 26968, Stop: 26579, Start Num: 50
Candidate Starts for Koko_40:
(Start: 50 @26968 has 31 MA's), (119, 26737), (124, 26710), (148, 26605),

Gene: Kratark_35 Start: 27746, Stop: 27267, Start Num: 66
Candidate Starts for Kratark_35:
(Start: 66 @27746 has 33 MA's), (144, 27413), (148, 27386),

Gene: Kremtemulon_35 Start: 27796, Stop: 27317, Start Num: 52
Candidate Starts for Kremtemulon_35:
(Start: 37 @27826 has 13 MA's), (Start: 52 @27796 has 24 MA's), (144, 27463), (148, 27436),

Gene: Kumquat_54 Start: 29457, Stop: 29041, Start Num: 68
Candidate Starts for Kumquat_54:
(23, 29580), (Start: 59 @29472 has 14 MA's), (Start: 68 @29457 has 3 MA's), (119, 29229),

Gene: LBerry_41 Start: 28576, Stop: 28193, Start Num: 51
Candidate Starts for LBerry_41:
(Start: 37 @28603 has 13 MA's), (Start: 51 @28576 has 118 MA's), (Start: 80 @28531 has 7 MA's), (118, 28360), (119, 28348),

Gene: LHTSCC_37 Start: 28100, Stop: 27660, Start Num: 66
Candidate Starts for LHTSCC_37:
(Start: 66 @28100 has 33 MA's), (148, 27740), (149, 27737),

Gene: Lambert1_35 Start: 27809, Stop: 27381, Start Num: 52
Candidate Starts for Lambert1_35:
(Start: 51 @27812 has 118 MA's), (Start: 52 @27809 has 24 MA's), (Start: 80 @27764 has 7 MA's), (112, 27626), (149, 27449),

Gene: Lannister_36 Start: 26707, Stop: 27195, Start Num: 51
Candidate Starts for Lannister_36:
(12, 26527), (31, 26659), (Start: 51 @26707 has 118 MA's), (79, 26779), (144, 27076), (171, 27163), (178, 27190),

Gene: Larnav_216 Start: 108336, Stop: 108638, Start Num: 93
Candidate Starts for Larnav_216:
(Start: 89 @108324 has 11 MA's), (Start: 93 @108336 has 20 MA's), (Start: 96 @108348 has 14 MA's), (111, 108414), (120, 108468), (122, 108483), (149, 108618),

Gene: LarryKay_40 Start: 28576, Stop: 28193, Start Num: 51
Candidate Starts for LarryKay_40:
(Start: 37 @28603 has 13 MA's), (Start: 51 @28576 has 118 MA's), (Start: 74 @28549 has 1 MA's), (Start: 80 @28531 has 7 MA's), (118, 28360), (119, 28348),

Gene: LastNadiia_46 Start: 32572, Stop: 32105, Start Num: 58
Candidate Starts for LastNadiia_46:
(Start: 58 @32572 has 12 MA's), (Start: 74 @32533 has 1 MA's), (Start: 80 @32515 has 7 MA's), (Start: 85 @32476 has 2 MA's), (121, 32317), (141, 32245), (148, 32203),

Gene: Legacy_34 Start: 25659, Stop: 26147, Start Num: 51
Candidate Starts for Legacy_34:
(31, 25611), (Start: 51 @25659 has 118 MA's), (79, 25731), (Start: 85 @25776 has 2 MA's), (109, 25878), (139, 25995), (171, 26115), (178, 26142),

Gene: Leo04_217 Start: 108856, Stop: 109170, Start Num: 89
Candidate Starts for Leo04_217:
(Start: 89 @108856 has 11 MA's), (Start: 93 @108868 has 20 MA's), (Start: 96 @108880 has 14 MA's), (111, 108946), (120, 109000), (122, 109015), (149, 109150),

Gene: Leviticus_34 Start: 25688, Stop: 26176, Start Num: 51
Candidate Starts for Leviticus_34:
(31, 25640), (Start: 51 @25688 has 118 MA's), (79, 25760), (Start: 85 @25805 has 2 MA's), (109, 25907), (139, 26024), (171, 26144), (178, 26171),

Gene: Lika_34 Start: 26509, Stop: 26988, Start Num: 61
Candidate Starts for Lika_34:
(Start: 61 @26509 has 5 MA's), (Start: 84 @26590 has 1 MA's), (Start: 87 @26605 has 1 MA's), (130, 26800), (171, 26956), (177, 26971),

Gene: LilMartin_216 Start: 106835, Stop: 107152, Start Num: 93
Candidate Starts for LilMartin_216:
(78, 106754), (Start: 89 @106823 has 11 MA's), (Start: 93 @106835 has 20 MA's), (Start: 96 @106847 has 14 MA's), (104, 106874), (111, 106913), (120, 106967), (122, 106982), (143, 107084), (155, 107135), (157, 107138),

Gene: LilSaint_218 Start: 108101, Stop: 108415, Start Num: 89
Candidate Starts for LilSaint_218:
(Start: 89 @108101 has 11 MA's), (Start: 93 @108113 has 20 MA's), (Start: 96 @108125 has 14 MA's), (104, 108152), (111, 108191), (117, 108212), (120, 108245), (122, 108260), (146, 108383), (149, 108395),

Gene: Lilbooboo_46 Start: 33605, Stop: 34009, Start Num: 66
Candidate Starts for Lilbooboo_46:
(18, 33455), (Start: 57 @33593 has 4 MA's), (Start: 66 @33605 has 33 MA's), (Start: 87 @33698 has 1 MA's), (101, 33752), (149, 33974),

Gene: Lilbunny_39 Start: 26386, Stop: 25997, Start Num: 52
Candidate Starts for Lilbunny_39:
(Start: 52 @26386 has 24 MA's), (100, 26242), (113, 26197), (119, 26155), (124, 26128),

Gene: Lilith_41 Start: 28569, Stop: 28186, Start Num: 51
Candidate Starts for Lilith_41:
(Start: 37 @28596 has 13 MA's), (Start: 51 @28569 has 118 MA's), (Start: 80 @28524 has 7 MA's), (118, 28353), (119, 28341),

Gene: LittleGuy_35 Start: 27703, Stop: 27230, Start Num: 66
Candidate Starts for LittleGuy_35:
(Start: 66 @27703 has 33 MA's), (146, 27352), (149, 27340), (172, 27280), (177, 27268),

Gene: Lizz_71 Start: 50574, Stop: 50158, Start Num: 56
Candidate Starts for Lizz_71:
(Start: 56 @50574 has 2 MA's), (Start: 77 @50526 has 1 MA's), (Start: 80 @50514 has 7 MA's), (81, 50508), (83, 50493), (Start: 84 @50481 has 1 MA's), (124, 50295), (125, 50292), (140, 50250), (154, 50187), (161, 50175),

Gene: Loofah_35 Start: 26915, Stop: 27400, Start Num: 59
Candidate Starts for Loofah_35:
(Start: 59 @26915 has 14 MA's), (Start: 84 @26999 has 1 MA's), (Start: 87 @27014 has 1 MA's), (171, 27368), (177, 27383),

Gene: Lorelei_35 Start: 26571, Stop: 27047, Start Num: 62
Candidate Starts for Lorelei_35:
(12, 26373), (16, 26409), (31, 26505), (Start: 59 @26565 has 14 MA's), (Start: 62 @26571 has 39 MA's), (Start: 84 @26649 has 1 MA's), (Start: 87 @26664 has 1 MA's), (130, 26859), (171, 27015), (177, 27030),

Gene: Louie6_40 Start: 28575, Stop: 28192, Start Num: 51

Candidate Starts for Louie6_40:
(Start: 37 @28602 has 13 MA's), (Start: 51 @28575 has 118 MA's), (Start: 74 @28548 has 1 MA's), (Start: 80 @28530 has 7 MA's), (118, 28359), (119, 28347),

Gene: Lowa_41 Start: 28568, Stop: 28185, Start Num: 51
Candidate Starts for Lowa_41:
(Start: 37 @28595 has 13 MA's), (Start: 51 @28568 has 118 MA's), (Start: 80 @28523 has 7 MA's), (118, 28352), (119, 28340),

Gene: Lozinak_146 Start: 79968, Stop: 80357, Start Num: 53
Candidate Starts for Lozinak_146:
(Start: 53 @79968 has 4 MA's), (99, 80106), (149, 80328), (155, 80346),

Gene: LugYA_43 Start: 28576, Stop: 28193, Start Num: 51
Candidate Starts for LugYA_43:
(Start: 37 @28603 has 13 MA's), (Start: 51 @28576 has 118 MA's), (Start: 80 @28531 has 7 MA's), (118, 28360), (119, 28348),

Gene: Lululemon_213 Start: 107235, Stop: 107525, Start Num: 96
Candidate Starts for Lululemon_213:
(Start: 89 @107211 has 11 MA's), (Start: 93 @107223 has 20 MA's), (Start: 96 @107235 has 14 MA's), (111, 107301), (120, 107355), (122, 107370), (149, 107505),

Gene: MA5_36 Start: 27451, Stop: 27065, Start Num: 49
Candidate Starts for MA5_36:
(Start: 49 @27451 has 42 MA's), (115, 27253),

Gene: MK4_36 Start: 27553, Stop: 27167, Start Num: 49
Candidate Starts for MK4_36:
(Start: 49 @27553 has 42 MA's),

Gene: MadMarie_41 Start: 28578, Stop: 28195, Start Num: 51
Candidate Starts for MadMarie_41:
(Start: 37 @28605 has 13 MA's), (Start: 51 @28578 has 118 MA's), (Start: 80 @28533 has 7 MA's), (118, 28362), (119, 28350),

Gene: Mainiac_41 Start: 28569, Stop: 28186, Start Num: 51
Candidate Starts for Mainiac_41:
(Start: 37 @28596 has 13 MA's), (Start: 51 @28569 has 118 MA's), (Start: 80 @28524 has 7 MA's), (118, 28353), (119, 28341),

Gene: Makima_44 Start: 31674, Stop: 31207, Start Num: 58
Candidate Starts for Makima_44:
(Start: 58 @31674 has 12 MA's), (Start: 74 @31635 has 1 MA's), (Start: 80 @31617 has 7 MA's), (Start: 84 @31587 has 1 MA's), (Start: 85 @31578 has 2 MA's), (115, 31470), (121, 31419), (141, 31347), (148, 31305),

Gene: Malinsilva_43 Start: 28568, Stop: 28185, Start Num: 51
Candidate Starts for Malinsilva_43:
(Start: 37 @28595 has 13 MA's), (Start: 51 @28568 has 118 MA's), (Start: 80 @28523 has 7 MA's), (118, 28352), (119, 28340),

Gene: Maneekul_34 Start: 26078, Stop: 26566, Start Num: 51

Candidate Starts for Maneekul_34:
(12, 25898), (31, 26030), (Start: 51 @26078 has 118 MA's), (79, 26150), (Start: 84 @26186 has 1 MA's), (Start: 85 @26195 has 2 MA's), (97, 26243), (138, 26408), (139, 26414), (171, 26534), (178, 26561),

Gene: Manu_41 Start: 28401, Stop: 28018, Start Num: 51
Candidate Starts for Manu_41:
(9, 28629), (Start: 37 @28428 has 13 MA's), (Start: 51 @28401 has 118 MA's), (Start: 80 @28356 has 7 MA's), (118, 28185), (119, 28173),

Gene: Manuel_51 Start: 29161, Stop: 28748, Start Num: 69
Candidate Starts for Manuel_51:
(Start: 69 @29161 has 2 MA's), (73, 29143), (Start: 87 @29077 has 1 MA's), (117, 28960), (133, 28885),

Gene: MarQuardt_41 Start: 28577, Stop: 28194, Start Num: 51
Candidate Starts for MarQuardt_41:
(Start: 37 @28604 has 13 MA's), (Start: 51 @28577 has 118 MA's), (Start: 80 @28532 has 7 MA's), (118, 28361), (119, 28349),

Gene: Marav_38 Start: 27473, Stop: 27934, Start Num: 58
Candidate Starts for Marav_38:
(Start: 58 @27473 has 12 MA's), (Start: 80 @27521 has 7 MA's), (Start: 84 @27554 has 1 MA's), (138, 27776), (139, 27782), (144, 27815), (171, 27902), (177, 27917),

Gene: Marchesa_36 Start: 27857, Stop: 27471, Start Num: 49
Candidate Starts for Marchesa_36:
(Start: 49 @27857 has 42 MA's), (115, 27659),

Gene: Margo_35 Start: 27838, Stop: 27407, Start Num: 51
Candidate Starts for Margo_35:
(Start: 51 @27838 has 118 MA's), (Start: 52 @27835 has 24 MA's), (Start: 80 @27790 has 7 MA's), (112, 27652), (149, 27475),

Gene: Marie_41 Start: 28575, Stop: 28192, Start Num: 51
Candidate Starts for Marie_41:
(Start: 37 @28602 has 13 MA's), (Start: 51 @28575 has 118 MA's), (Start: 80 @28530 has 7 MA's), (118, 28359), (119, 28347),

Gene: Marius_41 Start: 28401, Stop: 28018, Start Num: 51
Candidate Starts for Marius_41:
(9, 28626), (Start: 37 @28428 has 13 MA's), (Start: 51 @28401 has 118 MA's), (Start: 80 @28356 has 7 MA's), (118, 28185), (119, 28173),

Gene: Marsus_219 Start: 108512, Stop: 108817, Start Num: 96
Candidate Starts for Marsus_219:
(Start: 89 @108488 has 11 MA's), (Start: 93 @108500 has 20 MA's), (Start: 96 @108512 has 14 MA's), (104, 108539), (106, 108554), (111, 108578), (120, 108632), (122, 108647), (155, 108800), (157, 108803),

Gene: Maxo_36 Start: 27800, Stop: 27324, Start Num: 66
Candidate Starts for Maxo_36:

(Start: 66 @27800 has 33 MA's), (Start: 80 @27755 has 7 MA's), (112, 27617), (146, 27452), (149, 27440), (172, 27380), (177, 27368),

Gene: McFly_40 Start: 26616, Stop: 26224, Start Num: 50
Candidate Starts for McFly_40:
(Start: 50 @26616 has 31 MA's), (100, 26469), (113, 26424), (119, 26382), (124, 26355),

Gene: Methuselah_39 Start: 28570, Stop: 28187, Start Num: 51
Candidate Starts for Methuselah_39:
(Start: 37 @28597 has 13 MA's), (Start: 51 @28570 has 118 MA's), (Start: 74 @28543 has 1 MA's), (Start: 80 @28525 has 7 MA's), (118, 28354), (119, 28342),

Gene: Microwolf_41 Start: 28577, Stop: 28194, Start Num: 51
Candidate Starts for Microwolf_41:
(Start: 37 @28604 has 13 MA's), (Start: 51 @28577 has 118 MA's), (Start: 80 @28532 has 7 MA's), (118, 28361), (119, 28349),

Gene: Mildred21_226 Start: 106654, Stop: 106920, Start Num: 103
Candidate Starts for Mildred21_226:
(Start: 89 @106606 has 11 MA's), (Start: 96 @106630 has 14 MA's), (Start: 103 @106654 has 1 MA's), (111, 106696), (117, 106717), (120, 106750), (122, 106765), (124, 106771), (132, 106810), (149, 106900),

Gene: Miramae_35 Start: 28016, Stop: 27537, Start Num: 52
Candidate Starts for Miramae_35:
(Start: 52 @28016 has 24 MA's), (Start: 84 @27938 has 1 MA's), (Start: 85 @27929 has 2 MA's), (108, 27842), (148, 27656), (154, 27638), (168, 27605),

Gene: Mireles_47 Start: 31215, Stop: 30748, Start Num: 58
Candidate Starts for Mireles_47:
(Start: 58 @31215 has 12 MA's), (Start: 74 @31176 has 1 MA's), (75, 31173), (Start: 80 @31158 has 7 MA's), (Start: 85 @31119 has 2 MA's), (141, 30888), (166, 30798), (175, 30771),

Gene: Misomonster_42 Start: 28573, Stop: 28190, Start Num: 51
Candidate Starts for Misomonster_42:
(Start: 37 @28600 has 13 MA's), (Start: 51 @28573 has 118 MA's), (Start: 74 @28546 has 1 MA's), (Start: 80 @28528 has 7 MA's), (118, 28357), (119, 28345),

Gene: MoneyMay_41 Start: 28602, Stop: 28192, Start Num: 37
Candidate Starts for MoneyMay_41:
(Start: 37 @28602 has 13 MA's), (Start: 51 @28575 has 118 MA's), (Start: 80 @28530 has 7 MA's), (118, 28359), (119, 28347),

Gene: Morrow_36 Start: 27804, Stop: 27328, Start Num: 66
Candidate Starts for Morrow_36:
(Start: 66 @27804 has 33 MA's), (Start: 80 @27759 has 7 MA's), (112, 27621), (146, 27456), (149, 27444), (172, 27384), (177, 27372),

Gene: MuchMore_43 Start: 28568, Stop: 28185, Start Num: 51
Candidate Starts for MuchMore_43:
(Start: 37 @28595 has 13 MA's), (Start: 51 @28568 has 118 MA's), (Start: 80 @28523 has 7 MA's), (118, 28352), (119, 28340),

Gene: MulchMansion_220 Start: 108481, Stop: 108786, Start Num: 96
Candidate Starts for MulchMansion_220:
(78, 108388), (Start: 89 @108457 has 11 MA's), (Start: 93 @108469 has 20 MA's), (Start: 96 @108481 has 14 MA's), (104, 108508), (111, 108547), (120, 108601), (122, 108616), (143, 108718), (155, 108769), (157, 108772),

Gene: Mundrea_35 Start: 27726, Stop: 27247, Start Num: 66
Candidate Starts for Mundrea_35:
(Start: 66 @27726 has 33 MA's), (148, 27366),

Gene: Nabi_35 Start: 26571, Stop: 27047, Start Num: 62
Candidate Starts for Nabi_35:
(12, 26373), (16, 26409), (31, 26505), (Start: 59 @26565 has 14 MA's), (Start: 62 @26571 has 39 MA's), (Start: 84 @26649 has 1 MA's), (Start: 87 @26664 has 1 MA's), (130, 26859), (171, 27015), (177, 27030),

Gene: Naji_40 Start: 27983, Stop: 27597, Start Num: 49
Candidate Starts for Naji_40:
(Start: 49 @27983 has 42 MA's), (119, 27752),

Gene: Nanodon_36 Start: 26328, Stop: 26813, Start Num: 59
Candidate Starts for Nanodon_36:
(Start: 59 @26328 has 14 MA's), (Start: 84 @26412 has 1 MA's), (Start: 87 @26427 has 1 MA's), (128, 26616), (134, 26637), (138, 26655), (171, 26781), (177, 26796),

Gene: Navo_211 Start: 106571, Stop: 106873, Start Num: 93
Candidate Starts for Navo_211:
(Start: 89 @106559 has 11 MA's), (Start: 93 @106571 has 20 MA's), (Start: 96 @106583 has 14 MA's), (111, 106649), (117, 106670), (122, 106718), (129, 106745), (132, 106763), (149, 106853),

Gene: Nebs_36 Start: 27798, Stop: 27322, Start Num: 66
Candidate Starts for Nebs_36:
(Start: 66 @27798 has 33 MA's), (Start: 80 @27753 has 7 MA's), (112, 27615), (146, 27450), (149, 27438), (172, 27378), (177, 27366),

Gene: Neeharika16_40 Start: 26609, Stop: 26217, Start Num: 50
Candidate Starts for Neeharika16_40:
(Start: 50 @26609 has 31 MA's), (100, 26462), (113, 26417), (119, 26375), (124, 26348),

Gene: Newrala_40 Start: 26609, Stop: 26217, Start Num: 50
Candidate Starts for Newrala_40:
(Start: 50 @26609 has 31 MA's), (100, 26462), (113, 26417), (119, 26375), (124, 26348),

Gene: Nishikigoi_36 Start: 26732, Stop: 27217, Start Num: 59
Candidate Starts for Nishikigoi_36:
(Start: 59 @26732 has 14 MA's), (Start: 80 @26783 has 7 MA's), (Start: 84 @26816 has 1 MA's), (Start: 87 @26831 has 1 MA's), (136, 27047), (171, 27185), (177, 27200),

Gene: Noella_35 Start: 27813, Stop: 27382, Start Num: 51
Candidate Starts for Noella_35:
(Start: 51 @27813 has 118 MA's), (Start: 52 @27810 has 24 MA's), (Start: 80 @27765 has 7 MA's), (112, 27627), (149, 27450),

Gene: NootNoot_214 Start: 107088, Stop: 107390, Start Num: 93
Candidate Starts for NootNoot_214:
(Start: 89 @107076 has 11 MA's), (Start: 93 @107088 has 20 MA's), (Start: 96 @107100 has 14 MA's), (111, 107166), (117, 107187), (122, 107235), (132, 107280), (149, 107370),

Gene: Norbert_34 Start: 27812, Stop: 27381, Start Num: 51
Candidate Starts for Norbert_34:
(Start: 51 @27812 has 118 MA's), (Start: 52 @27809 has 24 MA's), (Start: 80 @27764 has 7 MA's), (112, 27626), (149, 27449),

Gene: Nyxis_35 Start: 27697, Stop: 27224, Start Num: 66
Candidate Starts for Nyxis_35:
(Start: 66 @27697 has 33 MA's), (146, 27346), (149, 27334), (172, 27274), (177, 27262),

Gene: Obama12_37 Start: 28102, Stop: 27662, Start Num: 66
Candidate Starts for Obama12_37:
(Start: 66 @28102 has 33 MA's), (148, 27742), (149, 27739),

Gene: OhMyWard_63 Start: 47880, Stop: 48323, Start Num: 47
Candidate Starts for OhMyWard_63:
(26, 47814), (44, 47871), (Start: 47 @47880 has 4 MA's), (Start: 87 @48009 has 1 MA's), (105, 48075), (109, 48102), (135, 48210), (144, 48264),

Gene: Ohfah_36 Start: 27798, Stop: 27322, Start Num: 66
Candidate Starts for Ohfah_36:
(Start: 66 @27798 has 33 MA's), (Start: 80 @27753 has 7 MA's), (112, 27615), (146, 27450), (149, 27438), (172, 27378), (177, 27366),

Gene: OlanP_40 Start: 28582, Stop: 28199, Start Num: 51
Candidate Starts for OlanP_40:
(Start: 37 @28609 has 13 MA's), (Start: 51 @28582 has 118 MA's), (Start: 80 @28537 has 7 MA's), (118, 28366), (119, 28354),

Gene: Olicious_54 Start: 29438, Stop: 29022, Start Num: 65
Candidate Starts for Olicious_54:
(46, 29480), (Start: 65 @29438 has 10 MA's), (Start: 87 @29351 has 1 MA's), (97, 29312), (109, 29261), (114, 29246), (115, 29240),

Gene: Oliynyk_35 Start: 26042, Stop: 26530, Start Num: 51
Candidate Starts for Oliynyk_35:
(20, 25937), (31, 25994), (Start: 51 @26042 has 118 MA's), (79, 26114), (Start: 85 @26159 has 2 MA's), (109, 26261), (139, 26378), (171, 26498), (178, 26525),

Gene: Ollie_41 Start: 28447, Stop: 28064, Start Num: 51
Candidate Starts for Ollie_41:
(Start: 37 @28474 has 13 MA's), (Start: 51 @28447 has 118 MA's), (Start: 80 @28402 has 7 MA's), (118, 28231), (119, 28219),

Gene: Omar_37 Start: 26978, Stop: 27451, Start Num: 62
Candidate Starts for Omar_37:
(Start: 62 @26978 has 39 MA's), (Start: 82 @27032 has 1 MA's), (Start: 84 @27056 has 1 MA's), (Start: 85 @27065 has 2 MA's), (Start: 87 @27071 has 1 MA's), (171, 27419), (177, 27434),

Gene: OneUp_130 Start: 77814, Stop: 78209, Start Num: 49
Candidate Starts for OneUp_130:
(27, 77748), (Start: 49 @77814 has 42 MA's), (99, 77958), (155, 78198),

Gene: Ozzie_34 Start: 25668, Stop: 26156, Start Num: 51
Candidate Starts for Ozzie_34:
(31, 25620), (Start: 51 @25668 has 118 MA's), (79, 25740), (Start: 85 @25785 has 2 MA's), (109, 25887), (139, 26004), (171, 26124), (178, 26151),

Gene: OzzyJ_35 Start: 26047, Stop: 26535, Start Num: 51
Candidate Starts for OzzyJ_35:
(12, 25867), (16, 25903), (31, 25999), (Start: 51 @26047 has 118 MA's), (79, 26119), (Start: 84 @26155 has 1 MA's), (Start: 85 @26164 has 2 MA's), (97, 26212), (138, 26377), (139, 26383), (171, 26503), (178, 26530),

Gene: P28Green_41 Start: 28578, Stop: 28195, Start Num: 51
Candidate Starts for P28Green_41:
(Start: 37 @28605 has 13 MA's), (Start: 51 @28578 has 118 MA's), (Start: 80 @28533 has 7 MA's), (118, 28362), (119, 28350),

Gene: PGHhamlin_43 Start: 28568, Stop: 28185, Start Num: 51
Candidate Starts for PGHhamlin_43:
(Start: 37 @28595 has 13 MA's), (Start: 51 @28568 has 118 MA's), (Start: 80 @28523 has 7 MA's), (118, 28352), (119, 28340),

Gene: PHTowN_71 Start: 50512, Stop: 50156, Start Num: 80
Candidate Starts for PHTowN_71:
(Start: 56 @50572 has 2 MA's), (Start: 77 @50524 has 1 MA's), (Start: 80 @50512 has 7 MA's), (81, 50506), (83, 50491), (Start: 84 @50479 has 1 MA's), (124, 50293), (125, 50290), (140, 50248), (154, 50185), (161, 50173),

Gene: Pablito_34 Start: 26313, Stop: 26771, Start Num: 58
Candidate Starts for Pablito_34:
(Start: 58 @26313 has 12 MA's), (Start: 84 @26394 has 1 MA's), (97, 26451), (138, 26616), (139, 26622), (146, 26673), (171, 26739), (177, 26754),

Gene: PacManQ_213 Start: 107235, Stop: 107525, Start Num: 96
Candidate Starts for PacManQ_213:
(Start: 89 @107211 has 11 MA's), (Start: 93 @107223 has 20 MA's), (Start: 96 @107235 has 14 MA's), (111, 107301), (120, 107355), (122, 107370), (149, 107505),

Gene: Paedore_34 Start: 26900, Stop: 27385, Start Num: 59
Candidate Starts for Paedore_34:
(Start: 59 @26900 has 14 MA's), (Start: 84 @26984 has 1 MA's), (Start: 87 @26999 has 1 MA's), (171, 27353), (177, 27368),

Gene: Panamaxus_34 Start: 27812, Stop: 27381, Start Num: 51
Candidate Starts for Panamaxus_34:
(Start: 51 @27812 has 118 MA's), (Start: 52 @27809 has 24 MA's), (Start: 80 @27764 has 7 MA's), (112, 27626), (149, 27449),

Gene: Paolo_37 Start: 27402, Stop: 27788, Start Num: 85
Candidate Starts for Paolo_37:

(Start: 62 @27315 has 39 MA's), (Start: 80 @27360 has 7 MA's), (Start: 82 @27369 has 1 MA's), (Start: 84 @27393 has 1 MA's), (Start: 85 @27402 has 2 MA's), (Start: 87 @27408 has 1 MA's), (109, 27504), (139, 27636), (171, 27756), (177, 27771),

Gene: Paradiddles_209 Start: 109463, Stop: 109765, Start Num: 93
Candidate Starts for Paradiddles_209:
(Start: 89 @109451 has 11 MA's), (Start: 93 @109463 has 20 MA's), (Start: 96 @109475 has 14 MA's), (111, 109541), (117, 109562), (122, 109610), (132, 109655), (149, 109745),

Gene: Pavo_36 Start: 27721, Stop: 28125, Start Num: 62
Candidate Starts for Pavo_36:
(12, 27526), (33, 27661), (Start: 62 @27721 has 39 MA's), (Start: 82 @27775 has 1 MA's), (Start: 85 @27808 has 2 MA's), (94, 27841), (148, 28102), (150, 28108),

Gene: Pawn_40 Start: 28402, Stop: 28019, Start Num: 51
Candidate Starts for Pawn_40:
(9, 28633), (Start: 37 @28429 has 13 MA's), (Start: 51 @28402 has 118 MA's), (Start: 80 @28357 has 7 MA's), (118, 28186), (119, 28174),

Gene: Peebs_214 Start: 108319, Stop: 108609, Start Num: 96
Candidate Starts for Peebs_214:
(Start: 89 @108295 has 11 MA's), (Start: 93 @108307 has 20 MA's), (Start: 96 @108319 has 14 MA's), (111, 108385), (120, 108439), (122, 108454), (149, 108589),

Gene: Pembroke_41 Start: 28577, Stop: 28194, Start Num: 51
Candidate Starts for Pembroke_41:
(Start: 37 @28604 has 13 MA's), (Start: 51 @28577 has 118 MA's), (Start: 80 @28532 has 7 MA's), (118, 28361), (119, 28349),

Gene: Penny1_41 Start: 28576, Stop: 28193, Start Num: 51
Candidate Starts for Penny1_41:
(Start: 37 @28603 has 13 MA's), (Start: 51 @28576 has 118 MA's), (Start: 80 @28531 has 7 MA's), (118, 28360), (119, 28348),

Gene: Pepperwood_217 Start: 108551, Stop: 108841, Start Num: 96
Candidate Starts for Pepperwood_217:
(Start: 89 @108527 has 11 MA's), (Start: 93 @108539 has 20 MA's), (Start: 96 @108551 has 14 MA's), (111, 108617), (120, 108671), (122, 108686), (149, 108821),

Gene: Percastrophe_54 Start: 29372, Stop: 28956, Start Num: 65
Candidate Starts for Percastrophe_54:
(46, 29414), (Start: 65 @29372 has 10 MA's), (Start: 87 @29285 has 1 MA's), (110, 29189), (112, 29186), (114, 29180), (127, 29102),

Gene: Persimmon_220 Start: 107589, Stop: 107891, Start Num: 93
Candidate Starts for Persimmon_220:
(Start: 89 @107577 has 11 MA's), (Start: 93 @107589 has 20 MA's), (Start: 96 @107601 has 14 MA's), (111, 107667), (117, 107688), (122, 107736), (129, 107763), (132, 107781), (149, 107871),

Gene: Phantastic_36 Start: 27584, Stop: 27198, Start Num: 49
Candidate Starts for Phantastic_36:
(Start: 49 @27584 has 42 MA's),

Gene: Phettuccine_34 Start: 25684, Stop: 26172, Start Num: 51
Candidate Starts for Phettuccine_34:
(31, 25636), (Start: 51 @25684 has 118 MA's), (79, 25756), (Start: 85 @25801 has 2 MA's), (109, 25903), (139, 26020), (171, 26140), (178, 26167),

Gene: PhinkBoden_144 Start: 79554, Stop: 79946, Start Num: 49
Candidate Starts for PhinkBoden_144:
(Start: 49 @79554 has 42 MA's), (99, 79695), (149, 79917), (155, 79935),

Gene: PhishRPhriends_39 Start: 27579, Stop: 27196, Start Num: 51
Candidate Starts for PhishRPhriends_39:
(9, 27807), (Start: 37 @27606 has 13 MA's), (Start: 51 @27579 has 118 MA's), (Start: 80 @27534 has 7 MA's), (118, 27363), (119, 27351),

Gene: Phoebe_41 Start: 28568, Stop: 28185, Start Num: 51
Candidate Starts for Phoebe_41:
(Start: 37 @28595 has 13 MA's), (Start: 51 @28568 has 118 MA's), (Start: 80 @28523 has 7 MA's), (118, 28352), (119, 28340),

Gene: Phontbonne_35 Start: 27698, Stop: 27225, Start Num: 66
Candidate Starts for Phontbonne_35:
(Start: 66 @27698 has 33 MA's), (146, 27347), (149, 27335), (172, 27275), (177, 27263),

Gene: Phoxy_40 Start: 28571, Stop: 28188, Start Num: 51
Candidate Starts for Phoxy_40:
(Start: 37 @28598 has 13 MA's), (Start: 51 @28571 has 118 MA's), (Start: 74 @28544 has 1 MA's), (Start: 80 @28526 has 7 MA's), (118, 28355), (119, 28343),

Gene: Phranny_41 Start: 28387, Stop: 28004, Start Num: 51
Candidate Starts for Phranny_41:
(9, 28615), (Start: 37 @28414 has 13 MA's), (Start: 51 @28387 has 118 MA's), (Start: 80 @28342 has 7 MA's), (118, 28171), (119, 28159),

Gene: PinkiePie_217 Start: 108231, Stop: 108545, Start Num: 89
Candidate Starts for PinkiePie_217:
(Start: 89 @108231 has 11 MA's), (Start: 93 @108243 has 20 MA's), (Start: 96 @108255 has 14 MA's), (111, 108321), (117, 108342), (122, 108390), (129, 108417), (132, 108435), (149, 108525),

Gene: Pistachio_37 Start: 27346, Stop: 26960, Start Num: 49
Candidate Starts for Pistachio_37:
(Start: 49 @27346 has 42 MA's), (115, 27148),

Gene: Pocahontas_35 Start: 27806, Stop: 27378, Start Num: 52
Candidate Starts for Pocahontas_35:
(Start: 51 @27809 has 118 MA's), (Start: 52 @27806 has 24 MA's), (Start: 80 @27761 has 7 MA's), (112, 27623), (149, 27446),

Gene: Polymorphads_36 Start: 27797, Stop: 27321, Start Num: 66
Candidate Starts for Polymorphads_36:
(Start: 66 @27797 has 33 MA's), (Start: 80 @27752 has 7 MA's), (112, 27614), (146, 27449), (149, 27437), (172, 27377), (177, 27365),

Gene: Polyphemus_40 Start: 26608, Stop: 26216, Start Num: 50

Candidate Starts for Polyphemus_40:
(Start: 50 @26608 has 31 MA's), (100, 26461), (113, 26416), (119, 26374), (124, 26347),

Gene: Pomar16_40 Start: 28024, Stop: 27638, Start Num: 49
Candidate Starts for Pomar16_40:
(Start: 49 @28024 has 42 MA's), (119, 27793),

Gene: Popcicle_35 Start: 27806, Stop: 27378, Start Num: 52
Candidate Starts for Popcicle_35:
(Start: 51 @27809 has 118 MA's), (Start: 52 @27806 has 24 MA's), (Start: 80 @27761 has 7 MA's), (112, 27623), (149, 27446),

Gene: PotatoSplit_42 Start: 28576, Stop: 28193, Start Num: 51
Candidate Starts for PotatoSplit_42:
(Start: 37 @28603 has 13 MA's), (Start: 51 @28576 has 118 MA's), (Start: 80 @28531 has 7 MA's), (118, 28360), (119, 28348),

Gene: Priamo_41 Start: 26652, Stop: 26263, Start Num: 52
Candidate Starts for Priamo_41:
(Start: 52 @26652 has 24 MA's), (100, 26508), (113, 26463), (119, 26421), (124, 26394),

Gene: Provolone_36 Start: 27103, Stop: 27507, Start Num: 62
Candidate Starts for Provolone_36:
(12, 26908), (33, 27043), (Start: 62 @27103 has 39 MA's), (Start: 82 @27157 has 1 MA's), (Start: 85 @27190 has 2 MA's), (94, 27223), (148, 27484), (150, 27490),

Gene: Puginator_37 Start: 27390, Stop: 27809, Start Num: 82
Candidate Starts for Puginator_37:
(Start: 62 @27336 has 39 MA's), (Start: 80 @27381 has 7 MA's), (Start: 82 @27390 has 1 MA's), (Start: 84 @27414 has 1 MA's), (Start: 85 @27423 has 2 MA's), (Start: 87 @27429 has 1 MA's), (109, 27525), (139, 27657), (171, 27777), (177, 27792),

Gene: Pumbaa_35 Start: 27749, Stop: 27276, Start Num: 66
Candidate Starts for Pumbaa_35:
(Start: 66 @27749 has 33 MA's), (146, 27398), (149, 27386), (172, 27326), (177, 27314),

Gene: Puppy_37 Start: 27416, Stop: 27030, Start Num: 49
Candidate Starts for Puppy_37:
(Start: 49 @27416 has 42 MA's), (115, 27218),

Gene: PurpleHaze_40 Start: 28400, Stop: 28017, Start Num: 51
Candidate Starts for PurpleHaze_40:
(9, 28628), (Start: 37 @28427 has 13 MA's), (Start: 51 @28400 has 118 MA's), (Start: 80 @28355 has 7 MA's), (118, 28184), (119, 28172),

Gene: PynkPanther_217 Start: 108441, Stop: 108743, Start Num: 93
Candidate Starts for PynkPanther_217:
(Start: 89 @108429 has 11 MA's), (Start: 93 @108441 has 20 MA's), (Start: 96 @108453 has 14 MA's), (111, 108519), (117, 108540), (122, 108588), (124, 108594), (149, 108723),

Gene: QuinnKiro_34 Start: 27812, Stop: 27381, Start Num: 51
Candidate Starts for QuinnKiro_34:

(Start: 51 @27812 has 118 MA's), (Start: 52 @27809 has 24 MA's), (Start: 80 @27764 has 7 MA's), (112, 27626), (149, 27449),

Gene: R4_35 Start: 27055, Stop: 27540, Start Num: 59
Candidate Starts for R4_35:
(Start: 59 @27055 has 14 MA's), (Start: 84 @27139 has 1 MA's), (Start: 87 @27154 has 1 MA's), (101, 27211), (128, 27343), (138, 27382), (171, 27508), (177, 27523),

Gene: Rana_35 Start: 26571, Stop: 27047, Start Num: 62
Candidate Starts for Rana_35:
(12, 26373), (16, 26409), (31, 26505), (Start: 59 @26565 has 14 MA's), (Start: 62 @26571 has 39 MA's), (Start: 84 @26649 has 1 MA's), (Start: 87 @26664 has 1 MA's), (130, 26859), (171, 27015), (177, 27030),

Gene: Reba_41 Start: 28060, Stop: 27677, Start Num: 51
Candidate Starts for Reba_41:
(9, 28288), (Start: 37 @28087 has 13 MA's), (Start: 51 @28060 has 118 MA's), (Start: 80 @28015 has 7 MA's), (118, 27844), (119, 27832),

Gene: RedBear_35 Start: 26236, Stop: 26655, Start Num: 62
Candidate Starts for RedBear_35:
(Start: 62 @26236 has 39 MA's), (79, 26281), (Start: 80 @26284 has 7 MA's), (Start: 85 @26326 has 2 MA's), (98, 26377), (101, 26386), (109, 26428), (131, 26530),

Gene: RemusLoopin_46 Start: 34126, Stop: 34542, Start Num: 57
Candidate Starts for RemusLoopin_46:
(Start: 57 @34126 has 4 MA's), (Start: 84 @34216 has 1 MA's), (Start: 87 @34231 has 1 MA's), (90, 34249),

Gene: ResDef_35 Start: 27812, Stop: 27381, Start Num: 51
Candidate Starts for ResDef_35:
(Start: 51 @27812 has 118 MA's), (Start: 52 @27809 has 24 MA's), (Start: 80 @27764 has 7 MA's), (112, 27626), (149, 27449),

Gene: RhynO_36 Start: 27673, Stop: 27197, Start Num: 52
Candidate Starts for RhynO_36:
(Start: 37 @27709 has 13 MA's), (Start: 52 @27673 has 24 MA's), (Start: 80 @27628 has 7 MA's), (Start: 84 @27595 has 1 MA's), (Start: 85 @27586 has 2 MA's), (Start: 86 @27583 has 1 MA's), (145, 27331), (148, 27316), (154, 27298),

Gene: Rifter_40 Start: 26392, Stop: 26003, Start Num: 50
Candidate Starts for Rifter_40:
(Start: 50 @26392 has 31 MA's), (119, 26161), (124, 26134), (148, 26029),

Gene: Riptide_218 Start: 107271, Stop: 107573, Start Num: 93
Candidate Starts for Riptide_218:
(Start: 89 @107259 has 11 MA's), (Start: 93 @107271 has 20 MA's), (Start: 96 @107283 has 14 MA's), (104, 107310), (111, 107349), (117, 107370), (120, 107403), (122, 107418), (146, 107541), (149, 107553),

Gene: Roberts_43 Start: 29940, Stop: 29479, Start Num: 66
Candidate Starts for Roberts_43:

(Start: 66 @29940 has 33 MA's), (Start: 74 @29913 has 1 MA's), (90, 29832), (107, 29772), (115, 29748), (141, 29625),

Gene: Rockstar_36 Start: 27560, Stop: 27174, Start Num: 49
Candidate Starts for Rockstar_36:
(Start: 49 @27560 has 42 MA's),

Gene: Roimos_36 Start: 27775, Stop: 27389, Start Num: 49
Candidate Starts for Roimos_36:
(Start: 49 @27775 has 42 MA's), (115, 27577),

Gene: Roksolana_41 Start: 26646, Stop: 26254, Start Num: 50
Candidate Starts for Roksolana_41:
(Start: 50 @26646 has 31 MA's), (100, 26499), (113, 26454), (119, 26412), (124, 26385),

Gene: Romero_54 Start: 29431, Stop: 29015, Start Num: 65
Candidate Starts for Romero_54:
(46, 29473), (Start: 65 @29431 has 10 MA's), (Start: 87 @29344 has 1 MA's), (97, 29305), (109, 29254), (114, 29239), (115, 29233),

Gene: Rooney_71 Start: 50674, Stop: 50294, Start Num: 72
Candidate Starts for Rooney_71:
(Start: 56 @50710 has 2 MA's), (Start: 72 @50674 has 2 MA's), (Start: 77 @50662 has 1 MA's), (Start: 80 @50650 has 7 MA's), (81, 50644), (83, 50629), (Start: 85 @50608 has 2 MA's), (120, 50452), (125, 50428), (139, 50389), (140, 50386), (151, 50332), (154, 50323),

Gene: RosePharie_55 Start: 29769, Stop: 29353, Start Num: 67
Candidate Starts for RosePharie_55:
(Start: 59 @29781 has 14 MA's), (Start: 67 @29769 has 1 MA's), (73, 29748), (Start: 87 @29682 has 1 MA's), (133, 29490),

Gene: Rowa_49 Start: 35076, Stop: 35489, Start Num: 57
Candidate Starts for Rowa_49:
(Start: 57 @35076 has 4 MA's), (Start: 85 @35175 has 2 MA's), (90, 35199), (135, 35373), (148, 35454),

Gene: Rowdy_39 Start: 27581, Stop: 27105, Start Num: 52
Candidate Starts for Rowdy_39:
(Start: 37 @27617 has 13 MA's), (Start: 52 @27581 has 24 MA's), (Start: 80 @27536 has 7 MA's), (Start: 84 @27503 has 1 MA's), (Start: 85 @27494 has 2 MA's), (Start: 86 @27491 has 1 MA's), (145, 27239), (148, 27224), (154, 27206),

Gene: Rummer_40 Start: 28571, Stop: 28188, Start Num: 51
Candidate Starts for Rummer_40:
(Start: 37 @28598 has 13 MA's), (Start: 51 @28571 has 118 MA's), (Start: 74 @28544 has 1 MA's), (Start: 80 @28526 has 7 MA's), (118, 28355), (119, 28343),

Gene: RunningOnE_13 Start: 5428, Stop: 5018, Start Num: 60
Candidate Starts for RunningOnE_13:
(39, 5476), (43, 5467), (54, 5440), (55, 5437), (Start: 60 @5428 has 2 MA's), (Start: 74 @5392 has 1 MA's), (Start: 80 @5374 has 7 MA's), (Start: 87 @5326 has 1 MA's), (144, 5092),

Gene: Rusticus_35 Start: 26042, Stop: 26530, Start Num: 51

Candidate Starts for Rusticus_35:
(20, 25937), (31, 25994), (Start: 51 @26042 has 118 MA's), (79, 26114), (Start: 85 @26159 has 2 MA's), (109, 26261), (139, 26378), (171, 26498), (178, 26525),

Gene: Sabia_41 Start: 28596, Stop: 28186, Start Num: 37
Candidate Starts for Sabia_41:
(Start: 37 @28596 has 13 MA's), (Start: 51 @28569 has 118 MA's), (Start: 80 @28524 has 7 MA's), (118, 28353), (119, 28341),

Gene: Sabinator_40 Start: 28574, Stop: 28191, Start Num: 51
Candidate Starts for Sabinator_40:
(Start: 37 @28601 has 13 MA's), (Start: 51 @28574 has 118 MA's), (Start: 80 @28529 has 7 MA's), (118, 28358), (119, 28346),

Gene: Saftant_35 Start: 27670, Stop: 28074, Start Num: 62
Candidate Starts for Saftant_35:
(Start: 62 @27670 has 39 MA's), (Start: 82 @27724 has 1 MA's), (Start: 85 @27757 has 2 MA's), (94, 27790), (139, 27991), (148, 28051), (150, 28057),

Gene: Samisti12_221 Start: 110133, Stop: 110435, Start Num: 93
Candidate Starts for Samisti12_221:
(Start: 89 @110121 has 11 MA's), (Start: 93 @110133 has 20 MA's), (Start: 96 @110145 has 14 MA's), (111, 110211), (120, 110265), (122, 110280), (149, 110415),

Gene: Samora_48 Start: 34458, Stop: 34883, Start Num: 57
Candidate Starts for Samora_48:
(Start: 57 @34458 has 4 MA's), (Start: 66 @34470 has 33 MA's), (Start: 84 @34548 has 1 MA's), (Start: 87 @34563 has 1 MA's), (101, 34617), (149, 34839), (152, 34851), (159, 34863), (163, 34875),

Gene: SarahRose_34 Start: 26055, Stop: 26543, Start Num: 51
Candidate Starts for SarahRose_34:
(Start: 51 @26055 has 118 MA's), (79, 26127), (Start: 84 @26163 has 1 MA's), (Start: 85 @26172 has 2 MA's), (97, 26220), (138, 26385), (139, 26391), (171, 26511), (178, 26538),

Gene: SassyC_76 Start: 51643, Stop: 51233, Start Num: 56
Candidate Starts for SassyC_76:
(Start: 56 @51643 has 2 MA's), (Start: 80 @51589 has 7 MA's), (88, 51538), (120, 51391), (147, 51286), (154, 51262),

Gene: SaturnRing_36 Start: 27799, Stop: 27413, Start Num: 49
Candidate Starts for SaturnRing_36:
(Start: 49 @27799 has 42 MA's), (115, 27601),

Gene: Scheme_220 Start: 109778, Stop: 110080, Start Num: 93
Candidate Starts for Scheme_220:
(Start: 89 @109766 has 11 MA's), (Start: 93 @109778 has 20 MA's), (Start: 96 @109790 has 14 MA's), (111, 109856), (120, 109910), (122, 109925), (149, 110060),

Gene: Schwartz33_66 Start: 46646, Stop: 47134, Start Num: 45
Candidate Starts for Schwartz33_66:
(42, 46640), (Start: 45 @46646 has 2 MA's), (Start: 77 @46724 has 1 MA's), (Start: 87 @46784 has 1 MA's), (118, 46922), (124, 46961),

Gene: Scout_36 Start: 27106, Stop: 26720, Start Num: 49
Candidate Starts for Scout_36:
(Start: 49 @27106 has 42 MA's), (115, 26908),

Gene: Sebastisaurus_45 Start: 34670, Stop: 34981, Start Num: 87
Candidate Starts for Sebastisaurus_45:
(Start: 57 @34565 has 4 MA's), (Start: 84 @34655 has 1 MA's), (Start: 87 @34670 has 1 MA's),

Gene: Secretariat_64 Start: 45608, Stop: 46093, Start Num: 45
Candidate Starts for Secretariat_64:
(11, 45440), (17, 45479), (19, 45497), (32, 45575), (36, 45584), (Start: 45 @45608 has 2 MA's), (Start: 77 @45683 has 1 MA's), (Start: 87 @45743 has 1 MA's), (102, 45800), (118, 45881), (123, 45917), (124, 45920),

Gene: ShakeNBake_71 Start: 50539, Stop: 50183, Start Num: 80
Candidate Starts for ShakeNBake_71:
(Start: 56 @50599 has 2 MA's), (Start: 77 @50551 has 1 MA's), (Start: 80 @50539 has 7 MA's), (81, 50533), (83, 50518), (Start: 84 @50506 has 1 MA's), (124, 50320), (125, 50317), (140, 50275), (154, 50212), (161, 50200),

Gene: Shapes_39 Start: 27581, Stop: 27105, Start Num: 52
Candidate Starts for Shapes_39:
(Start: 37 @27617 has 13 MA's), (Start: 52 @27581 has 24 MA's), (Start: 80 @27536 has 7 MA's), (Start: 84 @27503 has 1 MA's), (Start: 85 @27494 has 2 MA's), (Start: 86 @27491 has 1 MA's), (145, 27239), (148, 27224), (154, 27206),

Gene: Shawty_45 Start: 33157, Stop: 33510, Start Num: 80
Candidate Starts for Shawty_45:
(43, 33064), (48, 33076), (Start: 56 @33097 has 2 MA's), (Start: 80 @33157 has 7 MA's), (Start: 87 @33205 has 1 MA's), (149, 33481), (159, 33502),

Gene: SheldonCooper_37 Start: 28101, Stop: 27661, Start Num: 66
Candidate Starts for SheldonCooper_37:
(Start: 66 @28101 has 33 MA's), (148, 27741), (149, 27738),

Gene: Shuckle_214 Start: 108488, Stop: 108805, Start Num: 89
Candidate Starts for Shuckle_214:
(Start: 89 @108488 has 11 MA's), (Start: 93 @108500 has 20 MA's), (Start: 96 @108512 has 14 MA's), (111, 108578), (120, 108632), (122, 108647), (149, 108782), (158, 108800),

Gene: SmellyB_40 Start: 26616, Stop: 26224, Start Num: 50
Candidate Starts for SmellyB_40:
(Start: 50 @26616 has 31 MA's), (100, 26469), (113, 26424), (119, 26382), (124, 26355),

Gene: Smoothie_147 Start: 79538, Stop: 79933, Start Num: 49
Candidate Starts for Smoothie_147:
(1, 78968), (2, 79082), (3, 79109), (4, 79139), (5, 79232), (10, 79331), (13, 79382), (15, 79394), (20, 79445), (25, 79466), (28, 79481), (Start: 49 @79538 has 42 MA's), (99, 79682), (149, 79904), (155, 79922),

Gene: Snickers_41 Start: 28576, Stop: 28166, Start Num: 37
Candidate Starts for Snickers_41:

(Start: 37 @28576 has 13 MA's), (Start: 51 @28549 has 118 MA's), (Start: 80 @28504 has 7 MA's), (118, 28333), (119, 28321),

Gene: Snorlax_34 Start: 26059, Stop: 26547, Start Num: 51
Candidate Starts for Snorlax_34:
(12, 25879), (16, 25915), (31, 26011), (Start: 51 @26059 has 118 MA's), (79, 26131), (Start: 84 @26167 has 1 MA's), (Start: 85 @26176 has 2 MA's), (97, 26224), (138, 26389), (139, 26395), (171, 26515), (178, 26542),

Gene: SoYo_41 Start: 28514, Stop: 28104, Start Num: 37
Candidate Starts for SoYo_41:
(Start: 37 @28514 has 13 MA's), (Start: 51 @28487 has 118 MA's), (Start: 80 @28442 has 7 MA's), (118, 28271), (119, 28259),

Gene: SoilDragon_40 Start: 28021, Stop: 27638, Start Num: 51
Candidate Starts for SoilDragon_40:
(Start: 37 @28048 has 13 MA's), (Start: 51 @28021 has 118 MA's), (Start: 80 @27976 has 7 MA's), (118, 27805), (119, 27793),

Gene: Soshari_42 Start: 28570, Stop: 28187, Start Num: 51
Candidate Starts for Soshari_42:
(Start: 37 @28597 has 13 MA's), (Start: 51 @28570 has 118 MA's), (Start: 74 @28543 has 1 MA's), (Start: 80 @28525 has 7 MA's), (118, 28354), (119, 28342),

Gene: South40_34 Start: 26236, Stop: 26655, Start Num: 62
Candidate Starts for South40_34:
(Start: 62 @26236 has 39 MA's), (79, 26281), (Start: 80 @26284 has 7 MA's), (Start: 85 @26326 has 2 MA's), (98, 26377), (101, 26386), (109, 26428), (131, 26530),

Gene: Sparxx_36 Start: 27799, Stop: 27323, Start Num: 66
Candidate Starts for Sparxx_36:
(Start: 66 @27799 has 33 MA's), (Start: 80 @27754 has 7 MA's), (112, 27616), (146, 27451), (149, 27439), (172, 27379), (177, 27367),

Gene: Speedwell_40 Start: 28980, Stop: 29384, Start Num: 62
Candidate Starts for Speedwell_40:
(Start: 62 @28980 has 39 MA's), (Start: 82 @29034 has 1 MA's), (Start: 84 @29058 has 1 MA's), (Start: 85 @29067 has 2 MA's), (98, 29118), (109, 29169), (139, 29301), (148, 29361), (150, 29367),

Gene: Spike509_40 Start: 28571, Stop: 28188, Start Num: 51
Candidate Starts for Spike509_40:
(Start: 37 @28598 has 13 MA's), (Start: 51 @28571 has 118 MA's), (Start: 74 @28544 has 1 MA's), (Start: 80 @28526 has 7 MA's), (118, 28355), (119, 28343),

Gene: Spooks_13 Start: 9516, Stop: 9091, Start Num: 71
Candidate Starts for Spooks_13:
(35, 9597), (39, 9585), (Start: 71 @9516 has 1 MA's), (Start: 84 @9456 has 1 MA's), (Start: 87 @9441 has 1 MA's), (98, 9396), (116, 9333), (124, 9276), (139, 9231), (148, 9171), (149, 9168), (173, 9105),

Gene: SqueakyClean_34 Start: 26829, Stop: 27302, Start Num: 62
Candidate Starts for SqueakyClean_34:
(Start: 62 @26829 has 39 MA's), (Start: 80 @26874 has 7 MA's), (Start: 82 @26883 has 1 MA's), (Start: 84 @26907 has 1 MA's), (Start: 85 @26916 has 2 MA's), (94, 26949), (126, 27099), (171,

27270), (177, 27285),

Gene: Squillium_220 Start: 108257, Stop: 108547, Start Num: 96
Candidate Starts for Squillium_220:
(Start: 89 @108233 has 11 MA's), (Start: 93 @108245 has 20 MA's), (Start: 96 @108257 has 14 MA's), (111, 108323), (117, 108344), (122, 108392), (129, 108419), (132, 108437), (149, 108527),

Gene: Stagni_41 Start: 28578, Stop: 28195, Start Num: 51
Candidate Starts for Stagni_41:
(Start: 37 @28605 has 13 MA's), (Start: 51 @28578 has 118 MA's), (Start: 80 @28533 has 7 MA's), (118, 28362), (119, 28350),

Gene: StarStuff_40 Start: 27986, Stop: 27600, Start Num: 49
Candidate Starts for StarStuff_40:
(Start: 49 @27986 has 42 MA's), (119, 27755),

Gene: Stasia_36 Start: 28128, Stop: 27649, Start Num: 52
Candidate Starts for Stasia_36:
(Start: 37 @28158 has 13 MA's), (Start: 52 @28128 has 24 MA's), (148, 27768), (154, 27750),

Gene: StepMih_41 Start: 28569, Stop: 28186, Start Num: 51
Candidate Starts for StepMih_41:
(Start: 37 @28596 has 13 MA's), (Start: 51 @28569 has 118 MA's), (Start: 80 @28524 has 7 MA's), (118, 28353), (119, 28341),

Gene: Stink_36 Start: 28296, Stop: 27874, Start Num: 66
Candidate Starts for Stink_36:
(Start: 66 @28296 has 33 MA's), (Start: 80 @28251 has 7 MA's),

Gene: Studio_45 Start: 31294, Stop: 30833, Start Num: 66
Candidate Starts for Studio_45:
(Start: 66 @31294 has 33 MA's), (Start: 74 @31267 has 1 MA's), (90, 31186), (107, 31126), (115, 31102), (141, 30979), (175, 30862),

Gene: Success_13 Start: 8706, Stop: 8326, Start Num: 80
Candidate Starts for Success_13:
(35, 8814), (39, 8802), (Start: 80 @8706 has 7 MA's), (92, 8634), (95, 8625), (123, 8496), (142, 8421), (148, 8388), (149, 8385), (168, 8337),

Gene: Sudan_35 Start: 27550, Stop: 27954, Start Num: 62
Candidate Starts for Sudan_35:
(Start: 62 @27550 has 39 MA's), (Start: 82 @27604 has 1 MA's), (Start: 85 @27637 has 2 MA's), (94, 27670), (148, 27931), (150, 27937),

Gene: Sujidade_35 Start: 26794, Stop: 27273, Start Num: 61
Candidate Starts for Sujidade_35:
(Start: 61 @26794 has 5 MA's), (Start: 84 @26875 has 1 MA's), (Start: 87 @26890 has 1 MA's), (130, 27085), (171, 27241), (177, 27256),

Gene: SunkenRoot_35 Start: 28186, Stop: 28590, Start Num: 62
Candidate Starts for SunkenRoot_35:
(33, 28123), (Start: 62 @28186 has 39 MA's), (Start: 80 @28231 has 7 MA's), (Start: 82 @28240 has 1 MA's), (Start: 84 @28264 has 1 MA's), (98, 28324), (139, 28507), (148, 28567), (150, 28573),

Gene: SunsetPointe_34 Start: 25675, Stop: 26163, Start Num: 51
Candidate Starts for SunsetPointe_34:
(31, 25627), (Start: 51 @25675 has 118 MA's), (79, 25747), (Start: 85 @25792 has 2 MA's), (109, 25894), (139, 26011), (171, 26131), (178, 26158),

Gene: SuperAwesome_40 Start: 26609, Stop: 26217, Start Num: 50
Candidate Starts for SuperAwesome_40:
(Start: 50 @26609 has 31 MA's), (100, 26462), (113, 26417), (119, 26375), (124, 26348),

Gene: Superstar_38 Start: 27847, Stop: 28332, Start Num: 59
Candidate Starts for Superstar_38:
(Start: 59 @27847 has 14 MA's), (Start: 84 @27931 has 1 MA's), (Start: 87 @27946 has 1 MA's), (128, 28135), (171, 28300), (177, 28315),

Gene: Sushi23_217 Start: 109173, Stop: 109475, Start Num: 93
Candidate Starts for Sushi23_217:
(Start: 89 @109161 has 11 MA's), (Start: 93 @109173 has 20 MA's), (Start: 96 @109185 has 14 MA's), (111, 109251), (120, 109305), (122, 109320), (149, 109455),

Gene: TMaxx_45 Start: 30861, Stop: 30397, Start Num: 58
Candidate Starts for TMaxx_45:
(Start: 58 @30861 has 12 MA's), (Start: 74 @30822 has 1 MA's), (Start: 80 @30804 has 7 MA's), (Start: 85 @30765 has 2 MA's), (141, 30534),

Gene: TNguyen7_36 Start: 27763, Stop: 27377, Start Num: 49
Candidate Starts for TNguyen7_36:
(Start: 49 @27763 has 42 MA's), (115, 27565),

Gene: TagePhighter_36 Start: 26059, Stop: 26547, Start Num: 51
Candidate Starts for TagePhighter_36:
(12, 25879), (16, 25915), (31, 26011), (Start: 51 @26059 has 118 MA's), (79, 26131), (Start: 84 @26167 has 1 MA's), (Start: 85 @26176 has 2 MA's), (97, 26224), (138, 26389), (139, 26395), (171, 26515), (178, 26542),

Gene: Tairn4Wing_67 Start: 46421, Stop: 46846, Start Num: 77
Candidate Starts for Tairn4Wing_67:
(38, 46331), (Start: 74 @46415 has 1 MA's), (Start: 77 @46421 has 1 MA's), (Start: 87 @46481 has 1 MA's), (91, 46502), (102, 46538), (109, 46574), (124, 46658), (149, 46766), (153, 46781), (167, 46814), (170, 46817), (176, 46838),

Gene: Targaryen_216 Start: 109330, Stop: 109644, Start Num: 89
Candidate Starts for Targaryen_216:
(Start: 89 @109330 has 11 MA's), (Start: 93 @109342 has 20 MA's), (Start: 96 @109354 has 14 MA's), (111, 109420), (120, 109474), (122, 109489), (149, 109624),

Gene: Taurus_41 Start: 28575, Stop: 28192, Start Num: 51
Candidate Starts for Taurus_41:
(Start: 37 @28602 has 13 MA's), (Start: 51 @28575 has 118 MA's), (Start: 80 @28530 has 7 MA's), (118, 28359), (119, 28347),

Gene: Tefunt_36 Start: 26734, Stop: 27219, Start Num: 59
Candidate Starts for Tefunt_36:

(Start: 59 @26734 has 14 MA's), (Start: 80 @26785 has 7 MA's), (Start: 84 @26818 has 1 MA's), (Start: 87 @26833 has 1 MA's), (136, 27049), (171, 27187), (177, 27202),

Gene: Temprado_40 Start: 26617, Stop: 26225, Start Num: 50
Candidate Starts for Temprado_40:
(Start: 50 @26617 has 31 MA's), (100, 26470), (113, 26425), (119, 26383), (124, 26356),

Gene: Teutsch_216 Start: 108974, Stop: 109264, Start Num: 96
Candidate Starts for Teutsch_216:
(Start: 89 @108950 has 11 MA's), (Start: 93 @108962 has 20 MA's), (Start: 96 @108974 has 14 MA's), (111, 109040), (120, 109094), (122, 109109), (149, 109244),

Gene: Texage_34 Start: 27813, Stop: 27382, Start Num: 51
Candidate Starts for Texage_34:
(Start: 51 @27813 has 118 MA's), (Start: 52 @27810 has 24 MA's), (Start: 80 @27765 has 7 MA's), (112, 27627), (149, 27450),

Gene: Thestral_36 Start: 26939, Stop: 27412, Start Num: 62
Candidate Starts for Thestral_36:
(Start: 62 @26939 has 39 MA's), (Start: 80 @26984 has 7 MA's), (Start: 82 @26993 has 1 MA's), (Start: 84 @27017 has 1 MA's), (94, 27059), (109, 27128), (171, 27380), (177, 27395),

Gene: Tiffany_41 Start: 28461, Stop: 28078, Start Num: 51
Candidate Starts for Tiffany_41:
(Start: 37 @28488 has 13 MA's), (Start: 51 @28461 has 118 MA's), (Start: 80 @28416 has 7 MA's), (118, 28245), (119, 28233),

Gene: TinaBelcher_35 Start: 26886, Stop: 27359, Start Num: 62
Candidate Starts for TinaBelcher_35:
(Start: 62 @26886 has 39 MA's), (Start: 80 @26931 has 7 MA's), (Start: 82 @26940 has 1 MA's), (Start: 84 @26964 has 1 MA's), (94, 27006), (109, 27075), (171, 27327), (177, 27342),

Gene: TinyPebbles_40 Start: 28576, Stop: 28193, Start Num: 51
Candidate Starts for TinyPebbles_40:
(Start: 37 @28603 has 13 MA's), (Start: 51 @28576 has 118 MA's), (Start: 74 @28549 has 1 MA's), (Start: 80 @28531 has 7 MA's), (118, 28360), (119, 28348),

Gene: Todacoro_35 Start: 27812, Stop: 27381, Start Num: 51
Candidate Starts for Todacoro_35:
(Start: 51 @27812 has 118 MA's), (Start: 52 @27809 has 24 MA's), (Start: 80 @27764 has 7 MA's), (112, 27626), (149, 27449),

Gene: Toma_34 Start: 26511, Stop: 26990, Start Num: 61
Candidate Starts for Toma_34:
(Start: 61 @26511 has 5 MA's), (Start: 84 @26592 has 1 MA's), (Start: 87 @26607 has 1 MA's), (130, 26802), (171, 26958), (177, 26973),

Gene: Tomathan_40 Start: 27983, Stop: 27597, Start Num: 49
Candidate Starts for Tomathan_40:
(Start: 49 @27983 has 42 MA's), (119, 27752),

Gene: ToneTone_37 Start: 26318, Stop: 25929, Start Num: 52
Candidate Starts for ToneTone_37:

(Start: 52 @26318 has 24 MA's), (100, 26174), (113, 26129), (119, 26087), (124, 26060),

Gene: Toniann_146 Start: 79300, Stop: 79689, Start Num: 53
Candidate Starts for Toniann_146:
(Start: 53 @79300 has 4 MA's), (99, 79438), (149, 79660), (155, 79678),

Gene: ToriToki_54 Start: 29434, Stop: 29018, Start Num: 65
Candidate Starts for ToriToki_54:
(46, 29476), (Start: 65 @29434 has 10 MA's), (Start: 87 @29347 has 1 MA's), (110, 29251), (112, 29248), (114, 29242), (127, 29164),

Gene: Treat_54 Start: 29375, Stop: 28959, Start Num: 65
Candidate Starts for Treat_54:
(46, 29417), (Start: 65 @29375 has 10 MA's), (Start: 87 @29288 has 1 MA's), (97, 29249), (109, 29198), (114, 29183), (115, 29177),

Gene: Tribute_213 Start: 109127, Stop: 109429, Start Num: 93
Candidate Starts for Tribute_213:
(Start: 89 @109115 has 11 MA's), (Start: 93 @109127 has 20 MA's), (Start: 96 @109139 has 14 MA's), (111, 109205), (120, 109259), (122, 109274), (149, 109409),

Gene: TripleC_45 Start: 33187, Stop: 32723, Start Num: 58
Candidate Starts for TripleC_45:
(Start: 58 @33187 has 12 MA's), (Start: 66 @33175 has 33 MA's), (Start: 74 @33148 has 1 MA's), (Start: 80 @33130 has 7 MA's), (Start: 85 @33091 has 2 MA's), (141, 32860), (175, 32743),

Gene: Triste_34 Start: 26047, Stop: 26535, Start Num: 51
Candidate Starts for Triste_34:
(12, 25867), (16, 25903), (31, 25999), (Start: 51 @26047 has 118 MA's), (79, 26119), (Start: 84 @26155 has 1 MA's), (Start: 85 @26164 has 2 MA's), (97, 26212), (138, 26377), (139, 26383), (171, 26503), (178, 26530),

Gene: Triumph_36 Start: 26636, Stop: 27115, Start Num: 59
Candidate Starts for Triumph_36:
(41, 26600), (Start: 59 @26636 has 14 MA's), (79, 26687), (Start: 84 @26723 has 1 MA's), (Start: 85 @26732 has 2 MA's), (Start: 87 @26738 has 1 MA's), (90, 26756), (171, 27083), (177, 27098),

Gene: TroyPia_36 Start: 27802, Stop: 27323, Start Num: 66
Candidate Starts for TroyPia_36:
(Start: 66 @27802 has 33 MA's), (146, 27451), (149, 27439), (172, 27379), (177, 27367),

Gene: TrvxScott_34 Start: 26932, Stop: 27405, Start Num: 62
Candidate Starts for TrvxScott_34:
(Start: 62 @26932 has 39 MA's), (Start: 80 @26977 has 7 MA's), (Start: 82 @26986 has 1 MA's), (Start: 84 @27010 has 1 MA's), (94, 27052), (109, 27121), (171, 27373), (177, 27388),

Gene: TuanPN_33 Start: 25988, Stop: 26476, Start Num: 51
Candidate Starts for TuanPN_33:
(14, 25820), (29, 25937), (Start: 51 @25988 has 118 MA's), (79, 26060), (Start: 84 @26096 has 1 MA's), (Start: 85 @26105 has 2 MA's), (97, 26153), (138, 26318), (139, 26324), (171, 26444), (178, 26471),

Gene: Tucker_40 Start: 26404, Stop: 26015, Start Num: 52

Candidate Starts for Tucker_40:
(Start: 52 @26404 has 24 MA's), (Start: 74 @26377 has 1 MA's), (100, 26260), (113, 26215), (119, 26173), (124, 26146),

Gene: Ulysses_34 Start: 27484, Stop: 27011, Start Num: 66
Candidate Starts for Ulysses_34:
(Start: 66 @27484 has 33 MA's), (146, 27133), (149, 27121), (172, 27061), (177, 27049),

Gene: Unstoppable_34 Start: 25679, Stop: 26167, Start Num: 51
Candidate Starts for Unstoppable_34:
(31, 25631), (Start: 51 @25679 has 118 MA's), (79, 25751), (Start: 85 @25796 has 2 MA's), (109, 25898), (139, 26015), (171, 26135), (178, 26162),

Gene: VA6_37 Start: 28094, Stop: 27678, Start Num: 49
Candidate Starts for VA6_37:
(7, 28382), (Start: 49 @28094 has 42 MA's), (119, 27863), (148, 27731), (156, 27710), (164, 27692),

Gene: VC3_40 Start: 28082, Stop: 27666, Start Num: 49
Candidate Starts for VC3_40:
(7, 28370), (Start: 49 @28082 has 42 MA's), (119, 27851), (148, 27719), (156, 27698), (164, 27680),

Gene: Vanseggelen_40 Start: 27232, Stop: 27636, Start Num: 62
Candidate Starts for Vanseggelen_40:
(12, 27037), (33, 27172), (Start: 62 @27232 has 39 MA's), (Start: 80 @27277 has 7 MA's), (Start: 82 @27286 has 1 MA's), (Start: 84 @27310 has 1 MA's), (Start: 85 @27319 has 2 MA's), (94, 27352), (148, 27613), (150, 27619),

Gene: Vardy_63 Start: 46057, Stop: 46503, Start Num: 47
Candidate Starts for Vardy_63:
(26, 45991), (34, 46027), (44, 46048), (Start: 47 @46057 has 4 MA's), (Start: 87 @46189 has 1 MA's), (105, 46255), (109, 46282), (113, 46297), (135, 46390), (143, 46441),

Gene: Vash_45 Start: 33403, Stop: 33828, Start Num: 57
Candidate Starts for Vash_45:
(Start: 57 @33403 has 4 MA's), (Start: 66 @33415 has 33 MA's), (Start: 84 @33493 has 1 MA's), (Start: 87 @33508 has 1 MA's), (90, 33526), (138, 33715), (149, 33784), (152, 33796), (159, 33808), (163, 33820),

Gene: Verabelle_38 Start: 27616, Stop: 28023, Start Num: 62
Candidate Starts for Verabelle_38:
(12, 27421), (20, 27496), (33, 27556), (Start: 62 @27616 has 39 MA's), (Start: 82 @27673 has 1 MA's), (Start: 85 @27706 has 2 MA's), (98, 27757), (109, 27808), (116, 27823), (139, 27940), (148, 28000), (150, 28006),

Gene: Veracruz_34 Start: 27812, Stop: 27381, Start Num: 51
Candidate Starts for Veracruz_34:
(Start: 51 @27812 has 118 MA's), (Start: 52 @27809 has 24 MA's), (Start: 80 @27764 has 7 MA's), (112, 27626), (149, 27449),

Gene: Verse_35 Start: 28380, Stop: 28784, Start Num: 62
Candidate Starts for Verse_35:
(33, 28317), (Start: 62 @28380 has 39 MA's), (Start: 80 @28425 has 7 MA's), (Start: 82 @28434 has 1 MA's), (Start: 84 @28458 has 1 MA's), (98, 28518), (139, 28701), (148, 28761), (150, 28767),

Gene: Virizion_76 Start: 50882, Stop: 50514, Start Num: 77
Candidate Starts for Virizion_76:
(Start: 56 @50930 has 2 MA's), (Start: 72 @50894 has 2 MA's), (Start: 77 @50882 has 1 MA's), (Start: 80 @50870 has 7 MA's), (81, 50864), (83, 50849), (Start: 85 @50828 has 2 MA's), (120, 50672), (125, 50648), (139, 50609), (140, 50606), (151, 50552), (154, 50543),

Gene: Vix_41 Start: 28658, Stop: 28275, Start Num: 51
Candidate Starts for Vix_41:
(Start: 37 @28685 has 13 MA's), (Start: 51 @28658 has 118 MA's), (Start: 80 @28613 has 7 MA's), (118, 28442), (119, 28430),

Gene: VohminGhazi_40 Start: 26617, Stop: 26225, Start Num: 50
Candidate Starts for VohminGhazi_40:
(Start: 50 @26617 has 31 MA's), (100, 26470), (113, 26425), (119, 26383), (124, 26356),

Gene: Vrykolakas_54 Start: 29094, Stop: 28675, Start Num: 65
Candidate Starts for Vrykolakas_54:
(Start: 65 @29094 has 10 MA's), (Start: 76 @29067 has 1 MA's), (Start: 84 @29022 has 1 MA's), (133, 28812),

Gene: WRightOn_58 Start: 29613, Stop: 29197, Start Num: 68
Candidate Starts for WRightOn_58:
(23, 29736), (Start: 59 @29628 has 14 MA's), (Start: 68 @29613 has 3 MA's), (119, 29385),

Gene: Warpy_220 Start: 108239, Stop: 108553, Start Num: 89
Candidate Starts for Warpy_220:
(Start: 89 @108239 has 11 MA's), (Start: 93 @108251 has 20 MA's), (Start: 96 @108263 has 14 MA's), (111, 108329), (120, 108383), (122, 108398), (149, 108533),

Gene: WashU_211 Start: 108753, Stop: 109055, Start Num: 93
Candidate Starts for WashU_211:
(Start: 89 @108741 has 11 MA's), (Start: 93 @108753 has 20 MA's), (Start: 96 @108765 has 14 MA's), (111, 108831), (120, 108885), (122, 108900), (149, 109035),

Gene: Watermoore_216 Start: 109485, Stop: 109787, Start Num: 93
Candidate Starts for Watermoore_216:
(Start: 89 @109473 has 11 MA's), (Start: 93 @109485 has 20 MA's), (Start: 96 @109497 has 14 MA's), (111, 109563), (120, 109617), (122, 109632), (149, 109767),

Gene: Watson_41 Start: 28595, Stop: 28185, Start Num: 37
Candidate Starts for Watson_41:
(Start: 37 @28595 has 13 MA's), (Start: 51 @28568 has 118 MA's), (Start: 80 @28523 has 7 MA's), (118, 28352), (119, 28340),

Gene: Wentworth_71 Start: 50670, Stop: 50269, Start Num: 72
Candidate Starts for Wentworth_71:
(Start: 56 @50700 has 2 MA's), (Start: 72 @50670 has 2 MA's), (Start: 77 @50658 has 1 MA's), (Start: 80 @50646 has 7 MA's), (Start: 85 @50604 has 2 MA's), (Start: 87 @50598 has 1 MA's), (120, 50448), (124, 50427), (135, 50397), (139, 50376),

Gene: Werner_34 Start: 26057, Stop: 26545, Start Num: 51
Candidate Starts for Werner_34:

(12, 25877), (16, 25913), (31, 26009), (Start: 51 @26057 has 118 MA's), (79, 26129), (Start: 84 @26165 has 1 MA's), (Start: 85 @26174 has 2 MA's), (97, 26222), (109, 26276), (125, 26351), (138, 26387), (139, 26393), (171, 26513), (178, 26540),

Gene: Whatever_34 Start: 26057, Stop: 26545, Start Num: 51
Candidate Starts for Whatever_34:
(12, 25877), (16, 25913), (31, 26009), (Start: 51 @26057 has 118 MA's), (79, 26129), (Start: 84 @26165 has 1 MA's), (97, 26222), (138, 26387), (139, 26393), (171, 26513), (178, 26540),

Gene: WhereRU_216 Start: 107768, Stop: 108070, Start Num: 93
Candidate Starts for WhereRU_216:
(Start: 89 @107756 has 11 MA's), (Start: 93 @107768 has 20 MA's), (Start: 96 @107780 has 14 MA's), (111, 107846), (117, 107867), (122, 107915), (129, 107942), (132, 107960), (149, 108050),

Gene: Wiks_39 Start: 26386, Stop: 25997, Start Num: 52
Candidate Starts for Wiks_39:
(Start: 52 @26386 has 24 MA's), (100, 26242), (113, 26197), (119, 26155), (124, 26128),

Gene: Wilkos_73 Start: 50809, Stop: 50432, Start Num: 80
Candidate Starts for Wilkos_73:
(Start: 56 @50863 has 2 MA's), (Start: 80 @50809 has 7 MA's), (Start: 87 @50761 has 1 MA's), (124, 50590), (135, 50560), (139, 50539), (140, 50536),

Gene: Wooldri_43 Start: 28514, Stop: 28104, Start Num: 37
Candidate Starts for Wooldri_43:
(Start: 37 @28514 has 13 MA's), (Start: 51 @28487 has 118 MA's), (Start: 80 @28442 has 7 MA's), (118, 28271), (119, 28259),

Gene: WunderPhul_40 Start: 26384, Stop: 25995, Start Num: 52
Candidate Starts for WunderPhul_40:
(Start: 52 @26384 has 24 MA's), (100, 26240), (113, 26195), (119, 26153), (124, 26126),

Gene: Yara_67 Start: 49527, Stop: 49126, Start Num: 56
Candidate Starts for Yara_67:
(Start: 56 @49527 has 2 MA's), (Start: 84 @49440 has 1 MA's), (126, 49254), (139, 49221), (161, 49143),

Gene: Yasdnil_34 Start: 26106, Stop: 26594, Start Num: 51
Candidate Starts for Yasdnil_34:
(12, 25926), (31, 26058), (Start: 51 @26106 has 118 MA's), (79, 26178), (Start: 84 @26214 has 1 MA's), (Start: 85 @26223 has 2 MA's), (97, 26271), (138, 26436), (139, 26442), (171, 26562), (178, 26589),

Gene: Yokurt_40 Start: 26386, Stop: 25997, Start Num: 52
Candidate Starts for Yokurt_40:
(Start: 52 @26386 has 24 MA's), (100, 26242), (113, 26197), (119, 26155), (124, 26128),

Gene: Yosif_37 Start: 28173, Stop: 28583, Start Num: 62
Candidate Starts for Yosif_37:
(Start: 62 @28173 has 39 MA's), (Start: 82 @28227 has 1 MA's), (Start: 84 @28251 has 1 MA's), (139, 28494), (148, 28554), (150, 28560),

Gene: Zainub_37 Start: 27276, Stop: 27749, Start Num: 62

Candidate Starts for Zainub_37:
(Start: 62 @27276 has 39 MA's), (Start: 80 @27321 has 7 MA's), (Start: 82 @27330 has 1 MA's), (Start: 84 @27354 has 1 MA's), (Start: 85 @27363 has 2 MA's), (Start: 87 @27369 has 1 MA's), (109, 27465), (139, 27597), (171, 27717), (177, 27732),

Gene: Zaka_40 Start: 26386, Stop: 25997, Start Num: 52
Candidate Starts for Zaka_40:
(Start: 52 @26386 has 24 MA's), (100, 26242), (113, 26197), (119, 26155), (124, 26128),

Gene: ZamZam_35 Start: 27654, Stop: 28058, Start Num: 62
Candidate Starts for ZamZam_35:
(Start: 62 @27654 has 39 MA's), (Start: 80 @27699 has 7 MA's), (Start: 82 @27708 has 1 MA's), (Start: 84 @27732 has 1 MA's), (Start: 85 @27741 has 2 MA's), (Start: 87 @27747 has 1 MA's), (117, 27861), (148, 28035), (150, 28041),

Gene: Zeigle_54 Start: 29457, Stop: 29041, Start Num: 68
Candidate Starts for Zeigle_54:
(23, 29580), (Start: 59 @29472 has 14 MA's), (Start: 68 @29457 has 3 MA's), (119, 29229),

Gene: Zemlya_36 Start: 26609, Stop: 27091, Start Num: 59
Candidate Starts for Zemlya_36:
(22, 26504), (31, 26549), (Start: 59 @26609 has 14 MA's), (Start: 62 @26615 has 39 MA's), (Start: 84 @26693 has 1 MA's), (Start: 87 @26708 has 1 MA's), (130, 26903), (149, 27002), (171, 27059), (177, 27074), (178, 27086),

Gene: Zetzy_40 Start: 28139, Stop: 27756, Start Num: 51
Candidate Starts for Zetzy_40:
(Start: 37 @28166 has 13 MA's), (Start: 51 @28139 has 118 MA's), (Start: 80 @28094 has 7 MA's), (118, 27923), (119, 27911),

Gene: ZooBear_54 Start: 29438, Stop: 29022, Start Num: 65
Candidate Starts for ZooBear_54:
(46, 29480), (Start: 65 @29438 has 10 MA's), (Start: 87 @29351 has 1 MA's), (110, 29255), (112, 29252), (114, 29246), (127, 29168),

Gene: Zulu_40 Start: 26385, Stop: 25996, Start Num: 52
Candidate Starts for Zulu_40:
(Start: 52 @26385 has 24 MA's), (Start: 74 @26358 has 1 MA's), (100, 26241), (113, 26196), (119, 26154), (124, 26127),

Gene: phiBT1_20 Start: 34511, Stop: 34861, Start Num: 80
Candidate Starts for phiBT1_20:
(Start: 80 @34511 has 7 MA's), (Start: 85 @34553 has 2 MA's), (Start: 87 @34559 has 1 MA's), (90, 34577), (101, 34613), (149, 34835),

Gene: phiCAM_34 Start: 29556, Stop: 29906, Start Num: 82
Candidate Starts for phiCAM_34:
(Start: 62 @29499 has 39 MA's), (Start: 82 @29556 has 1 MA's), (Start: 84 @29580 has 1 MA's), (Start: 85 @29589 has 2 MA's), (94, 29622), (98, 29640), (126, 29772), (135, 29802), (138, 29817), (145, 29868), (148, 29883), (150, 29889),