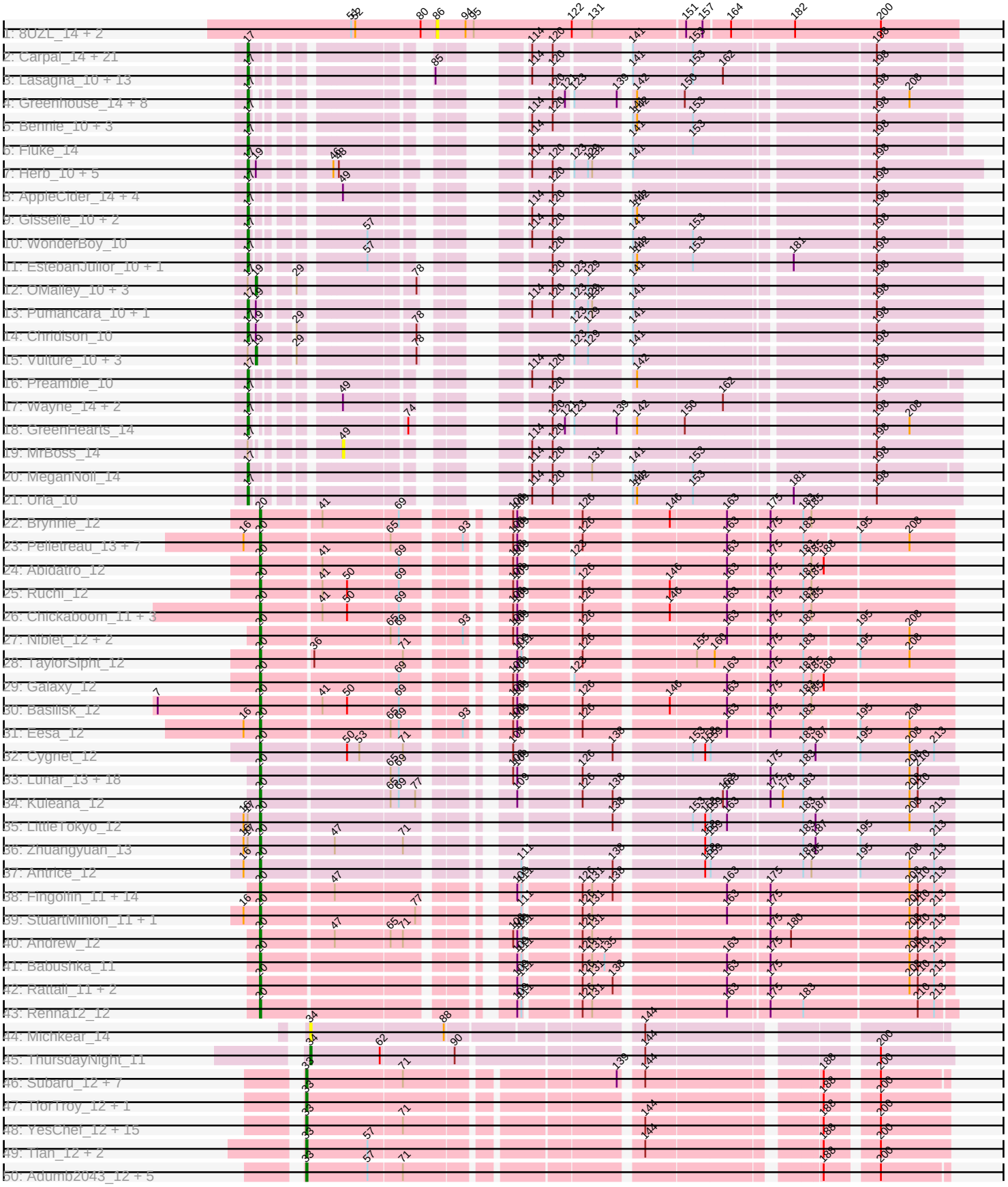
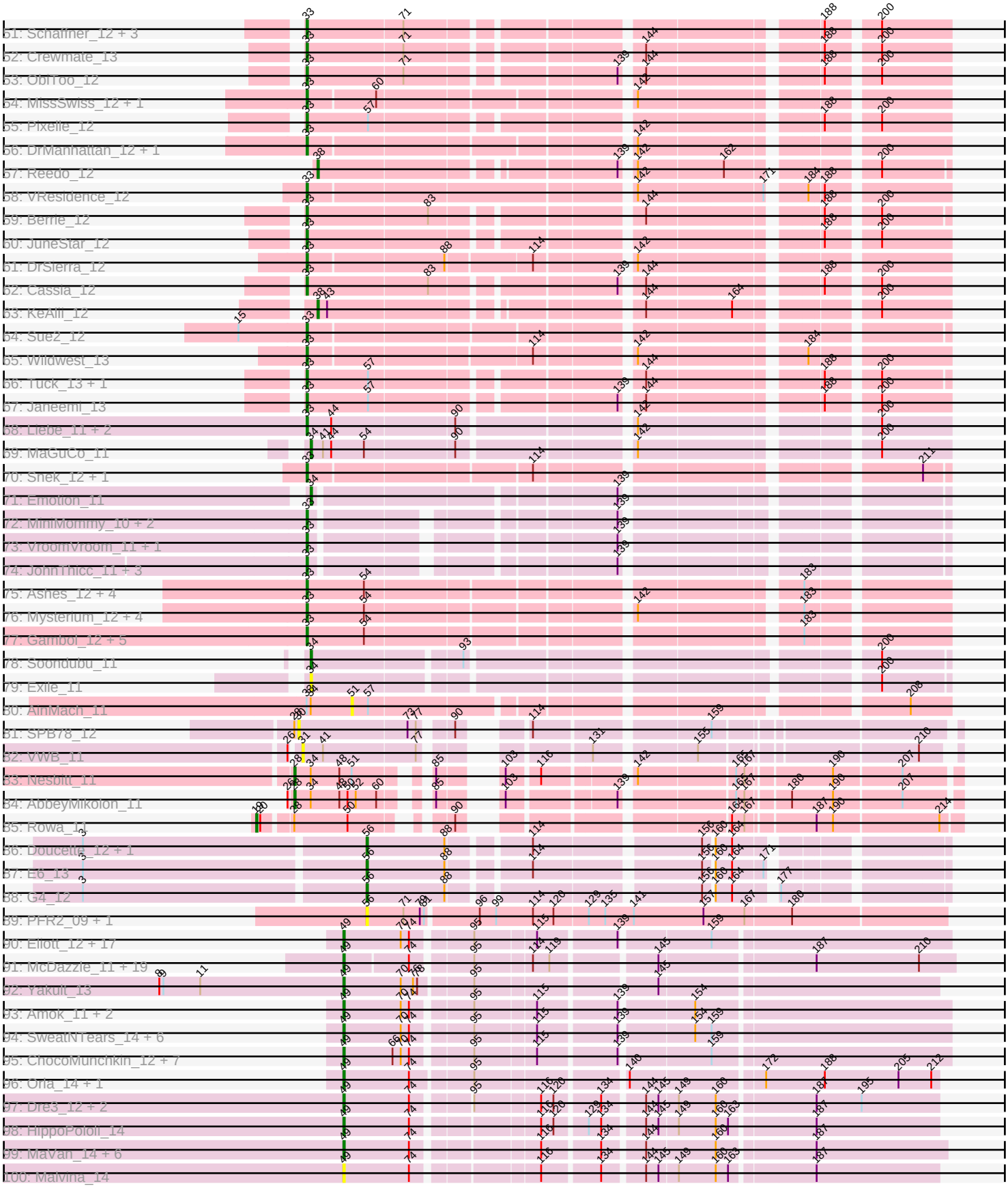
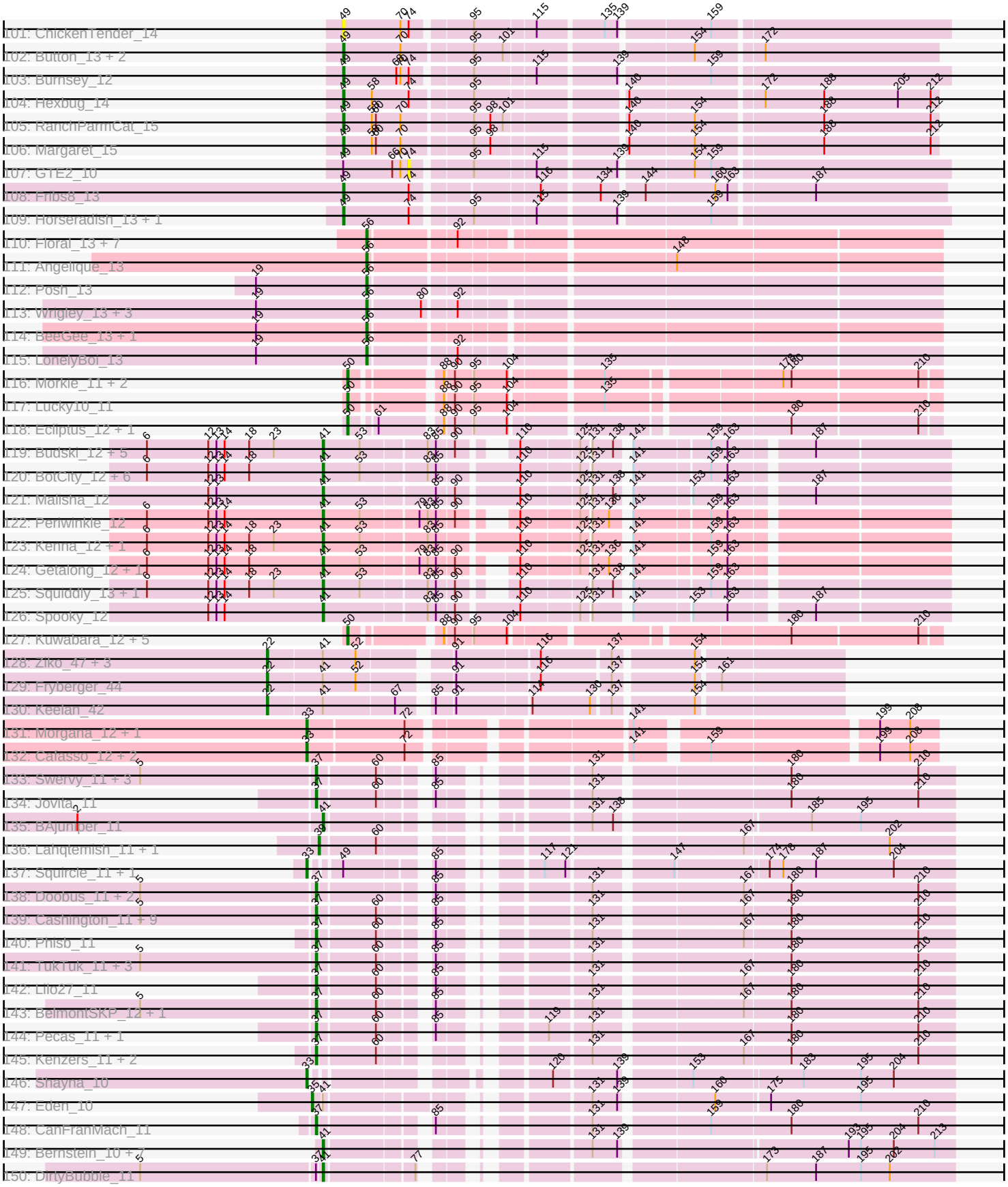
Pham 347058


1: 8UZL_14 + 2
2: Carpal_14 + 21
3: Lasagna_10 + 13
4: Greenhouse_14 + 8
5: Bennie_10 + 3
6: Fluke_14
7: Hero_10 + 5
8: AppleCider_14 + 4
9: Gisselle_10 + 2
10: WonderBoy_10
11: EstebanJunior_10 + 1
12: OMalley_10 + 3
13: Pumancara_10 + 1
14: Chrndson_10
15: Vulture_10 + 3
16: Preamble_10
17: Wayne_14 + 2
18: GreenHearts_14
19: MrBoss_14
20: MeganNoll_14
21: Orla_10
22: Brynnie_12
23: Pelletreau_13 + 7
24: Abidatro_12
25: Ruchi_12
26: Chickaboom_11 + 3
27: Niblet_12 + 2
28: TaylorSiphi_12
29: Galaxy_12
30: Basilisk_12
31: Eesa_12
32: Cygnet_12
33: Lunar_13 + 18
34: Kuleana_12
35: LittleTokyo_12
36: Zhuangyuan_13
37: Anthice_12
38: Fingolfin_11 + 14
39: StuartMinion_11 + 1
40: Andrew_12
41: Babushka_11
42: Rattail_11 + 2
43: Renna12_12
44: Michkear_14
45: ThursdayNight_11
46: Subaru_12 + 7
47: ThorTroy_12 + 1
48: YesChef_12 + 15
49: Tian_12 + 2
50: Adumb2043_12 + 5

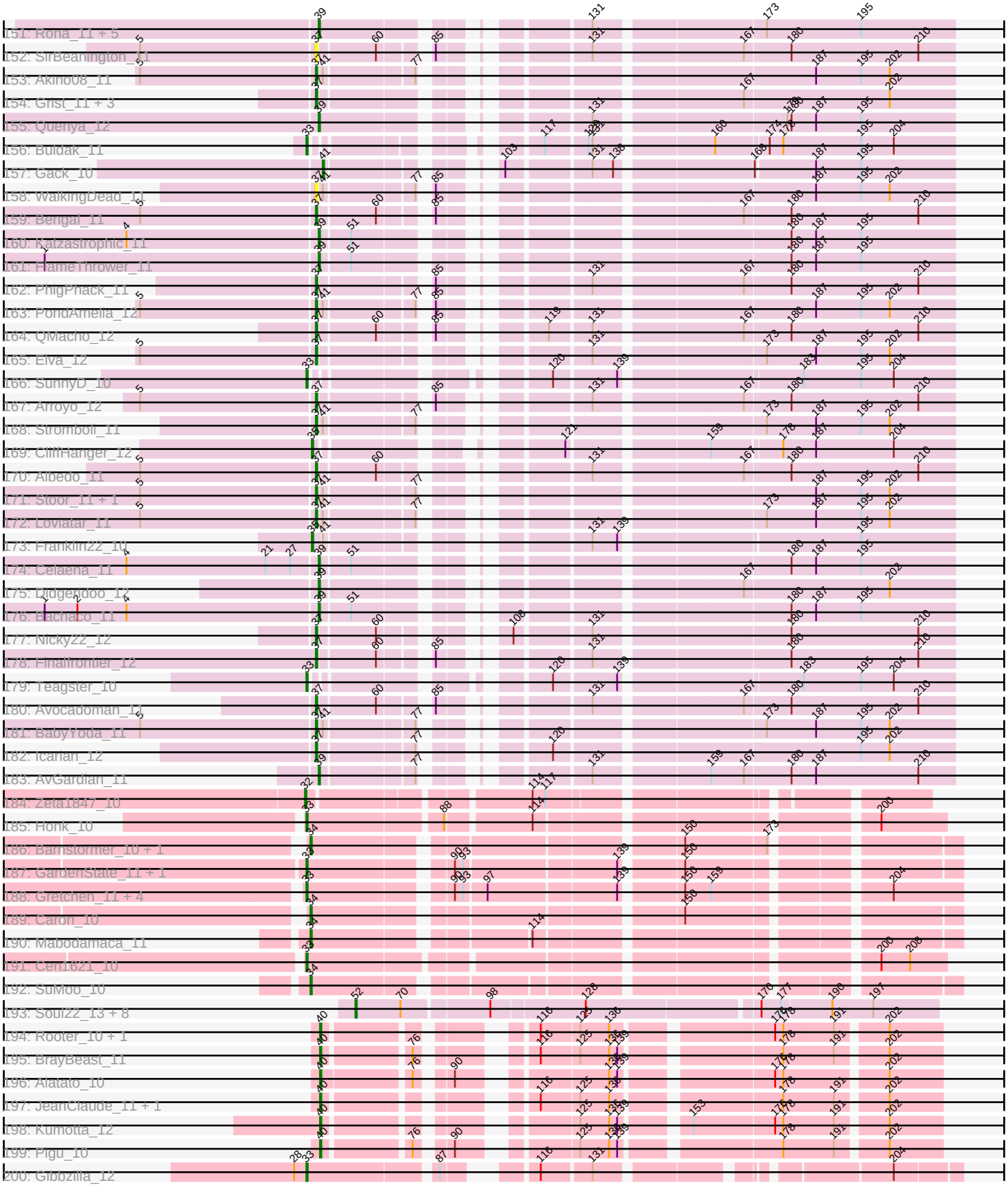
Pham 347058


51: Schaffner_12 + 3
52: Crewmate_13
53: ObiToo_12
54: MissSwiss_12 + 1
55: Pixelle_12
56: DrManhattan_12 + 1
57: Reedo_12
58: VResidence_12
59: Bernie_12
60: JuneStar_12
61: DrSierra_12
62: Cassia_12
63: KeAlli_12
64: Sue2_12
65: Wildwest_13
66: Tuck_13 + 1
67: Janeemi_13
68: Liebe_11 + 2
69: MaGuCo_11
70: Snek_12 + 1
71: Emotion_11
72: MiniMommy_10 + 2
73: VroomVroom_11 + 1
74: JohnThicc_11 + 3
75: Ashes_12 + 4
76: Mysterium_12 + 4
77: Gambol_12 + 5
78: Soondubu_11
79: Exile_11
80: AimMach_11
81: SPB78_12
82: VWB_11
83: Nesbitt_11
84: AbbeyMikolon_11
85: Rowa_11
86: Doucette_12 + 1
87: E6_13
88: G4_12
89: PFR2_09 + 1
90: Elliott_12 + 17
91: McDazzle_11 + 19
92: Yakult_13
93: Amok_11 + 2
94: SweatNTears_14 + 6
95: ChocoMunchkin_12 + 7
96: Orla_14 + 1
97: Dre3_12 + 2
98: HippoPolo_14
99: MaVan_14 + 6
100: Malvina_14

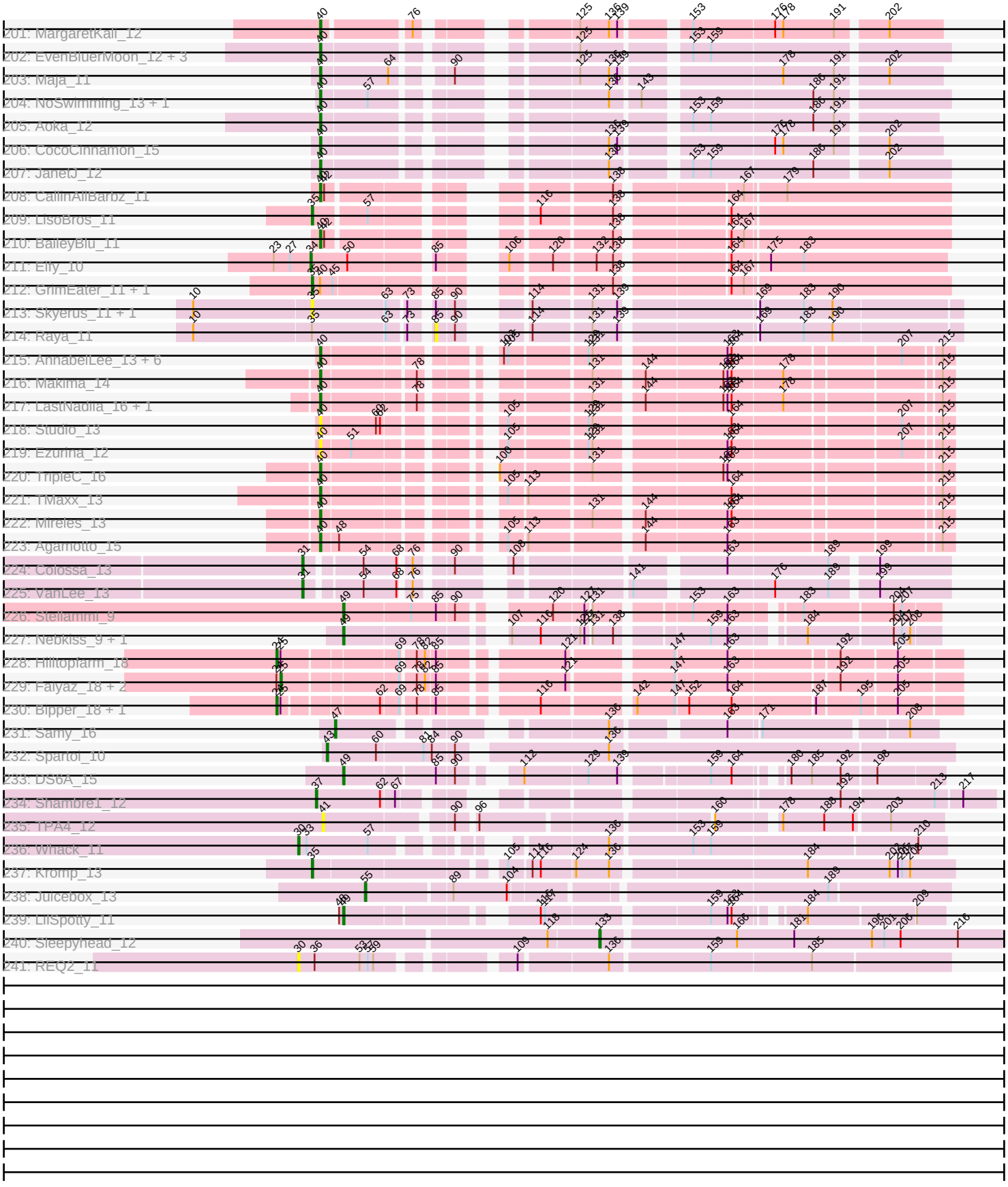
Pham 347058


I01: ChickenTender_14
I02: Button_13 + 2
I03: Burnsey_12
I04: Hexbug_14
I05: RanchParmCat_15
I06: Margaret_15
I07: GTE2_10
I08: Phibs8_13
I09: Horseradish_13 + 1
I10: Floral_13 + 7
I11: Angelique_13
I12: Posh_13
I13: Wrigley_13 + 3
I14: BeeGee_13 + 1
I15: LonelyBoi_13
I16: Morkie_11 + 2
I17: Lucky10_11
I18: Ecliptus_12 + 1
I19: Budski_12 + 5
I20: BotCity_12 + 6
I21: Malisha_12
I22: Periwinkle_12
I23: Kenna_12 + 1
I24: Getalong_12 + 1
I25: Squiddly_13 + 1
I26: Spooky_12
I27: Kuwabara_12 + 5
I28: Ziko_47 + 3
I29: Fryberger_44
I30: Keelan_42
I31: Morgana_12 + 1
I32: Calasso_12 + 2
I33: Swervy_11 + 3
I34: Jovita_11
I35: BAjumper_11
I36: Lanqtemish_11 + 1
I37: Squircle_11 + 1
I38: Doobus_11 + 2
I39: Cashington_11 + 9
I40: Phisb_11
I41: YukYuk_11 + 3
I42: Lilo27_11
I43: BelmontSKP_12 + 1
I44: Pecas_11 + 1
I45: Kenzers_11 + 2
I46: Shayna_10
I47: Eden_10
I48: CanFranMach_11
I49: Bernstein_10 + 7
I50: DirtyBubble_11

Pham 347058


151: Rona_11 + 5
152: SirBeanington_11
153: Akino08_11
154: Grist_11 + 3
155: Quenya_12
156: Buldak_11
157: Gack_10
158: WalkingDead_11
159: Bengal_11
160: Katzastrophic_11
161: FlameThrower_11
162: PhigPhack_11
163: PondAmelia_12
164: QMacho_12
165: Elva_12
166: SunnyD_10
167: Arroyo_12
168: Stromboli_11
169: CliffHanger_12
170: Albedo_11
171: Stoor_11 + 1
172: Loviatar_11
173: Franklin22_10
174: Celaena_11
175: Didgeridoo_12
176: Bachaco_11
177: Nicky22_12
178: FinalFrontier_12
179: Teagster_10
180: Avocadoman_11
181: BabyYoda_11
182: Icarian_12
183: AvGardian_11
184: Zeta1847_10
185: Honk_10
186: Barnstormer_10 + 1
187: GardenState_11 + 1
188: Gretchen_11 + 4
189: Caron_10
190: Mabodamaca_11
191: Cem1621_10
192: SuMoo_10
193: Soul22_13 + 8
194: Rooter_10 + 1
195: BrayBeast_11
196: Alatato_10
197: JeanClaude_11 + 1
198: Kumotta_12
199: Pigu_10
200: Globzilla_12

Pham 347058


201: MargaretKali_12
202: EvenBlueMoon_12 + 3
203: Maja_11
204: NoSwimming_13 + 1
205: Aoka_12
206: CocoCinnamon_15
207: JanetJ_12
208: CallinAllBarbz_11
209: LisoBros_11
210: BaileyBlu_11
211: Elly_10
212: GrimEater_11 + 1
213: Skyerus_11 + 1
214: Raya_11
215: AnnabelLee_13 + 6
216: Makima_14
217: LastNadila_16 + 1
218: Studio_13
219: Ezurina_12
220: TripleC_16
221: TMaxx_13
222: Mireles_13
223: Agamotto_15
224: Colossa_13
225: VanLee_13
226: Stellammi_9
227: Nebkiss_9 + 1
228: Hilltopfarm_18
229: Faiyaz_18 + 2
230: Bipper_18 + 1
231: Samy_16
232: Spartoi_10
233: DS6A_15
234: Shambre1_12
235: TPA4_12
236: Whack_11
237: Kromp_13
238: Juicebox_13
239: LilSpotty_11
240: Sleepyhead_12
241: REQ2_11

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 347058 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 347058 has 590 members, 72 are drafts.

Phages represented in each track:
• Track 1 : 8UZL_14, LongHai_15, Salvus_15
• Track 2 : Carpal_14, Wawa_14, Korra_14, Glenn_14, Kalizoi_14, Dino_14, Vallejo_14, TattModd_14, BrotherBLo_14, Zorro_14, Cholula_14, RAP15_14, Jumboset_14, Rozby_14, MrGloopy_14, Riverdale_14, BigMack_10, Scuttle_14, Potatoes_14, Savage2526_14, Immaculata_14, Beethoven_14
• Track 3 : Lasagna_10, OurGirlNessie_10, PitaDog_10, Christian_10, Lucy_10, ChewChew_10, Nancia_10, Makoto_10, CristinaYang_10, Bodacious_10, Lennox_10, DrRobert_10, LilStuart_10, Pterodactyl_10
• Track 4 : Greenhouse_14, Lakshmi_14, Nubia_14, RcigaStruga_14, Oxynfrius_14, Joann_14, Albanese_14, Huntingdon_14, Misaeng_14
• Track 5 : Bennie_10, Huckleberry_10, HeadNerd_10, Moki_10
• Track 6 : Fluke_14
• Track 7 : Herb_10, Sergei_10, Daiboju_10, Maria1952_10, KingBob_10, Temper16_10
• Track 8 : AppleCider_14, Graynor_14, CallieOMalley_14, Litotes_14, PartyCup_14
• Track 9 : Gisselle_10, Kittykat_10, DreamTeam_10
• Track 10 : WonderBoy_10
• Track 11 : EstebanJulior_10, MamaPearl_10
• Track 12 : OMalley_10, Aledel_10, Eunoia_10, Riovina_10
• Track 13 : Pumancara_10, PinkFriday_10
• Track 14 : Chridison_10
• Track 15 : Vulture_10, Supakev_10, AustinPowers_10, HunterDalle_10
• Track 16 : Preamble_10
• Track 17 : Wayne_14, Suppi_14, Canowicakte_14
• Track 18 : GreenHearts_14
• Track 19 : MrBoss_14
• Track 20 : MeganNoll_14
• Track 21 : Urla_10
• Track 22 : Brynnie_12
• Track 23 : Pelletreau_13, Amanises_13, Orcanus_12, KendraB23_13, Westrich_13, Toad24_13, Gravel_13, Shen_13
• Track 24 : Abidatro_12
• Track 25 : Ruchi_12

• Track 26 : Chickaboom_11, Vulpecula_12, Jamun_12, WileyE_11
• Track 27 : Niblet_12, Chicken_12, Zixiang_12
• Track 28 : TaylorSipht_12
• Track 29 : Galaxy_12
• Track 30 : Basilisk_12
• Track 31 : Eesa_12
• Track 32 : Cygnet_12
• Track 33 : Lunar_13, Jerole_13, Kepler_12, Daob_13, GramZayde_12, Pineda_13, Bibble12_13, Polka_12, Coral_12, Colusalem_12, HannahPhantana_13, Melons_13, BadWillHunting_13, Bedetta_13, PhirstandPhine_13, Damocles_13, Amelia_13, Cote_13, OtsoOtso_12
• Track 34 : Kuleana_12
• Track 35 : LittleTokyo_12
• Track 36 : Zhuangyuan_13
• Track 37 : Antrice_12
• Track 38 : Fingolfin_11, Oppalora_11, HamCheese_11, Glotell_11, Juno112_11, Atlantica_11, RedFox_11, Amphitrite_11, PhluffyCoco_11, DanHam62_11, AmiCi24_11, KHumphrey_11, Laphuphu24k_11, AdoptaAdorbs_11, Camara_11
• Track 39 : StuartMinion_11, AlexMinion_11
• Track 40 : Andrew_12
• Track 41 : Babushka_11
• Track 42 : Rattail_11, Azaz_11, Leona_11
• Track 43 : Renna12_12
• Track 44 : Michkear_14
• Track 45 : ThursdayNight_11
• Track 46 : Subaru_12, Elezi_12, Jstan_12, London_12, Niobe_12, Eraser_12, Skelbel_12, Asa16_12
• Track 47 : TforTroy_12, Yang_12
• Track 48 : YesChef_12, Tbone_12, Mudpuppy_12, JohnDoe_12, Lego_12, Simpson_13, Cyan_12, Joemato_12, Iter_12, Powerpuff_12, Kaylissa_12, Tutumahutu_12, AGrandiflora_12, Warda_12, Lizalica_12, Ascela_12
• Track 49 : Tian_12, Amyev_12, Phives_13
• Track 50 : Adumb2043_12, Nitro_12, Turab_12, Tallboi_12, Amploria_12, AEgle_12
• Track 51 : Schaffner_12, IttyBittyPiggy_12, Flutur_12, Pumpkins_12
• Track 52 : Crewmate_13
• Track 53 : ObiToo_12
• Track 54 : MissSwiss_12, PandaPo_12
• Track 55 : Pixelle_12
• Track 56 : DrManhattan_12, Adolin_12
• Track 57 : Reedo_12
• Track 58 : VResidence_12
• Track 59 : Berrie_12
• Track 60 : JuneStar_12
• Track 61 : DrSierra_12
• Track 62 : Cassia_12
• Track 63 : KeAlii_12
• Track 64 : Sue2_12
• Track 65 : Wildwest_13
• Track 66 : Tuck_13, Community_13
• Track 67 : Janeemi_13
• Track 68 : Liebe_11, IUFootball_11, Maureen_11
• Track 69 : MaGuCo_11
• Track 70 : Snek_12, Tweety19_12

• Track 71 : Emotion_11
• Track 72 : MiniMommy_10, JasmineDragon_11, ShakeItOph_11
• Track 73 : VroomVroom_11, AceofSpades_10
• Track 74 : JohnThicc_11, FiveHead_11, Origami_11, LadyAstra_11
• Track 75 : Ashes_12, Halsey_12, RockScotty_12, SpecialK_12, Moss_12
• Track 76 : Mysterium_12, Gumpizza_12, Stuu_12, Beaupre_12, Giorgio_12
• Track 77 : Gambol_12, Sooty_12, Cappuccino_12, Kalimba_12, Donkey_12, Sabourin_12
• Track 78 : Soondubu_11
• Track 79 : Exile_11
• Track 80 : AinMach_11
• Track 81 : SPB78_12
• Track 82 : VWB_11
• Track 83 : Nesbitt_11
• Track 84 : AbbeyMikolon_11
• Track 85 : Rowa_11
• Track 86 : Doucette_12, B22_12
• Track 87 : E6_13
• Track 88 : G4_12
• Track 89 : PFR2_09, PFR1_09
• Track 90 : Eliott_12, Bubble_12, Nina_13, Starburst_13, RedBaron_14, Agatha_12, Cozz_12, PsychoKiller_12, Typhonomachy_12, Quasar_12, RADical_13, Carsonalex_13, Sopespian_12, Socotra_13, Axym_12, RSchmailzl_13, GoldHunter_12, MunkgeeRoachy_12
• Track 91 : McDazzle_11, Bavilard_12, Feastonyeet_11, Mayweather_13, Balloona_11, Yucky_12, KayGee_12, CocoaPuff_11, ElJefes_11, PotPie_12, SheckWes_11, Tarnish_12, BigChungus_11, MAnor_12, Elinal_13, Lauer_11, Vine_13, CherryonLim_13, SummitAcademy_11, Pons_12
• Track 92 : Yakult_13
• Track 93 : Amok_11, AikoCarson_11, Emalyn_11
• Track 94 : SweatNTears_14, MScarn_14, SketchMex_11, Blondies_13, Troje_12, Biskit_13, Buttrmlkdreams_12
• Track 95 : ChocoMunchkin_12, Tolls_14, AndPeggy_11, SteamedHams_14, CanesSauce_12, Yarn_11, CaramelLatte_12, BillDoor_14
• Track 96 : Orla_14, Nodigi_14
• Track 97 : Dre3_12, Cleo_12, Gibbous_12
• Track 98 : HippoPololi_14
• Track 99 : MaVan_14, Wolfwood_14, Zareef_14, Wallaby_16, Azira_14, Survivors_14, Nibbles_14
• Track 100 : Malvina_14
• Track 101 : ChickenTender_14
• Track 102 : Button_13, Jamzy_15, GiKK_15
• Track 103 : Burnsey_12
• Track 104 : Hexbug_14
• Track 105 : RanchParmCat_15
• Track 106 : Margaret_15
• Track 107 : GTE2_10
• Track 108 : Fribs8_13
• Track 109 : Horseradish_13, Yummy_13
• Track 110 : Floral_13, BritBrat_13, EMsquaredA_13, Pollux_13, Lilas_13, Bradissa_13, EnalisNailo_13, Marteena_13
• Track 111 : Angelique_13
• Track 112 : Posh_13

• Track 113 : Wrigley_13, Jablanski_13, Pytheas_13, Confidence_13
• Track 114 : BeeGee_13, Cashline_13
• Track 115 : LonelyBoi_13
• Track 116 : Morkie_11, InLimbo_12, PhorbesPhlower_11
• Track 117 : Lucky10_11
• Track 118 : Ecliptus_12, ODay_12
• Track 119 : Budski_12, Phabuloso_12, CheeseTouch_12, Holliday_12, LitninMcQueen_12, Kamaru_12
• Track 120 : BotCity_12, Horus_12, BENtherdunthat_12, ShawBrad_12, Frickyeah_12, Leroy_12, Asapag_12
• Track 121 : Malisha_12
• Track 122 : Periwinkle_12
• Track 123 : Kenna_12, Lutum_12
• Track 124 : Getalong_12, Whitney_12
• Track 125 : Squiddly_13, Phistory_12
• Track 126 : Spooky_12
• Track 127 : Kuwabara_12, BearBQ_12, MortyNRick_12, Birdsong_12, Apricot_12, Crater_12
• Track 128 : Ziko_47, Guey18_49, Ronaldo_47, Volt_46
• Track 129 : Fryberger_44
• Track 130 : Keelan_42
• Track 131 : Morgana_12, Aleemily_12
• Track 132 : Cafasso_12, ObLaDi_12, ModicumRichard_12
• Track 133 : Swervy_11, Slay_11, AylexOG_12, SarBear_11
• Track 134 : Jovita_11
• Track 135 : BAjuniper_11
• Track 136 : Lahqtemish_11, PastaFagioli_11
• Track 137 : Squircle_11, Olliecat_11
• Track 138 : Doobus_11, CroZenni_11, Albright_11
• Track 139 : Cashington_11, Solea_12, Milomuff_12, Johnathan_11, SansAfet_11, DickRichards_11, Softsoap_11, Abigail_11, LimaBean_11, Burritobowl_11
• Track 140 : Phisb_11
• Track 141 : TukTuk_11, CupcakePrincess_11, Jabb_11, MsUbiquitous_11
• Track 142 : Lilo27_11
• Track 143 : BelmontSKP_12, AnnaLie_12
• Track 144 : Pecas_11, Eula_11
• Track 145 : Kenzers_11, Lynlen_11, BubbaBear_11
• Track 146 : Shayna_10
• Track 147 : Eden_10
• Track 148 : CanFranMach_11
• Track 149 : Bernstein_10, Armstrong_10, Coltrane_10, Clayda5_10, Rollins_10, Vitas_10, Skylord_10, Brahms_10
• Track 150 : DirtyBubble_11
• Track 151 : Rona_11, ChiliPepper_11, Kamdara_11, Sharkboy_11, Kieran_11, Dismas_11
• Track 152 : SirBeanington_11
• Track 153 : Akino08_11
• Track 154 : Grist_11, Kate33_11, BabyDaisy_12, IndyLu_11
• Track 155 : Quenya_12
• Track 156 : Buldak_11
• Track 157 : Gack_10
• Track 158 : WalkingDead_11
• Track 159 : Bengal_11

• Track 160 : Katzastrophic_11
• Track 161 : FlameThrower_11
• Track 162 : PhigPhack_11
• Track 163 : PondAmelia_12
• Track 164 : QMacho_12
• Track 165 : Elva_12
• Track 166 : SunnyD_10
• Track 167 : Arroyo_12
• Track 168 : Stromboli_11
• Track 169 : CliffHanger_12
• Track 170 : Albedo_11
• Track 171 : Stoor_11, SanaSana_12
• Track 172 : Loviatar_11
• Track 173 : Franklin22_10
• Track 174 : Celaena_11
• Track 175 : Didgeridoo_12
• Track 176 : Bachaco_11
• Track 177 : Nicky22_12
• Track 178 : Finalfrontier_12
• Track 179 : Teagster_10
• Track 180 : Avocadoman_11
• Track 181 : BabyYoda_11
• Track 182 : Icarian_12
• Track 183 : AvGardian_11
• Track 184 : Zeta1847_10
• Track 185 : Honk_10
• Track 186 : Barnstormer_10, UtzChips_10
• Track 187 : GardenState_11, IAmGroot_11
• Track 188 : Gretchen_11, SuperHands_11, Floof_11, Forester_11, Percival_11
• Track 189 : Caron_10
• Track 190 : Mabodamaca_11
• Track 191 : Cen1621_10
• Track 192 : SuMoo_10
• Track 193 : Soul22_13, Demsculpinboyz_13, Avani_13, Che9d_13, Blarby_14, Zapner_14, Jabbawokkie_14, Yoshi_13, SilverChicken_13
• Track 194 : Rooter_10, Sarge_11
• Track 195 : BrayBeast_11
• Track 196 : Alatato_10
• Track 197 : JeanClaude_11, Shoya_10
• Track 198 : Kumotta_12
• Track 199 : Pigu_10
• Track 200 : Gibbzilla_12
• Track 201 : MargaretKali_12
• Track 202 : EvenBluerMoon_12, Hereford_13, PrairieDogTown_12, Morrey_18
• Track 203 : Maja_11
• Track 204 : NoSwimming_13, Scotia_13
• Track 205 : Aoka_12
• Track 206 : CocoCinnamon_15
• Track 207 : JanetJ_12
• Track 208 : CallinAllBarbz_11
• Track 209 : LisoBros_11
• Track 210 : BaileyBlu_11
• Track 211 : Elfy_10

• Track 212 : GrimEater_11, Jankie_11
• Track 213 : Skyerus_11, Neroxid_11
• Track 214 : Raya_11
• Track 215 : AnnabelLee_13, CardboardBox_13, ChamoyPickle_13, Roberts_13, Neuvillette_13, Gerri43_13, ChipsNGuac_13
• Track 216 : Makima_14
• Track 217 : LastNadiia_16, Audell_16
• Track 218 : Studio_13
• Track 219 : Ezurina_12
• Track 220 : TripleC_16
• Track 221 : TMaxx_13
• Track 222 : Mireles_13
• Track 223 : Agamotto_15
• Track 224 : Colossa_13
• Track 225 : VanLee_13
• Track 226 : Stellammi_9
• Track 227 : Nebkiss_9, Gaia_9
• Track 228 : Hilltopfarm_18
• Track 229 : Faiyaz_18, Typha_18, AuntGwenStacy_18
• Track 230 : Bipper_18, Cracklewink_18
• Track 231 : Samy_16
• Track 232 : Spartoi_10
• Track 233 : DS6A_15
• Track 234 : Shambre1_12
• Track 235 : TPA4_12
• Track 236 : Whack_11
• Track 237 : Kromp_13
• Track 238 : Juicebox_13
• Track 239 : LilSpotty_11
• Track 240 : Sleepyhead_12
• Track 241 : REQ2_11

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

The start number called the most often in the published annotations is 33, it was called in 96 of the 518 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AEgle_12, AGrandiflora_12, AceofSpades_10, Adolin_12, Adumb2043_12, Aleemily_12, Amploria_12, Amyev_12, Asa16_12, Ascela_12, Ashes_12, Beaupre_12, Berrie_12, Buldak_11, Cafasso_12, Cappuccino_12, Cassia_12, Cen1621_10, Community_13, Crewmate_13, Cyan_12, Donkey_12, DrManhattan_12, DrSierra_12, Elezi_12, Eraser_12, FiveHead_11, Floof_11, Flutur_12, Forester_11, Gambol_12, GardenState_11, Gibbzilla_12, Giorgio_12, Gretchen_11, Gumpizza_12, Halsey_12, Honk_10, IAmGroot_11, IUFootball_11, Iter_12, IttyBittyPiggy_12, Janeemi_13, JasmineDragon_11, Joemato_12, JohnDoe_12, JohnThicc_11, Jstan_12, JuneStar_12, Kalimba_12, Kaylissa_12, LadyAstra_11, Lego_12, Liebe_11, Lizalica_12, London_12, Maureen_11, MiniMommy_10, MissSwiss_12, ModicumRichard_12, Morgana_12, Moss_12, Mudpuppy_12, Mysterium_12, Niobe_12, Nitro_12, ObLaDi_12, ObiToo_12,

Olliecat_11, Origami_11, PandaPo_12, Percival_11, Phives_13, Pixelle_12, Powerpuff_12, Pumpkins_12, RockScotty_12, Sabourin_12, Schaffner_12, ShakeItOph_11, Shayna_10, Simpson_13, Skelbel_12, Snek_12, Sooty_12, SpecialK_12, Squircle_11, Stuu_12, Subaru_12, Sue2_12, SunnyD_10, SuperHands_11, Tallboi_12, Tbone_12, Teagster_10, TforTroy_12, Tian_12, Tuck_13, Turab_12, Tutumahutu_12, Tweety19_12, VResidence_12, VroomVroom_11, Warda_12, Wildwest_13, Yang_12, YesChef_12,

Genes that have the "Most Annotated" start but do not call it:
• AinMach_11, Whack_11,

Genes that do not have the "Most Annotated" start:
• 8UZL_14, AbbeyMikolon_11, Abidatro_12, Abigail_11, AdoptaAdorbs_11, Agamotto_15, Agatha_12, AikoCarson_11, Akino08_11, Alatato_10, Albanese_14, Albedo_11, Albright_11, Aledel_10, AlexMinion_11, Amanises_13, Amelia_13, AmiCi24_11, Amok_11, Amphitrite_11, AndPeggy_11, Andrew_12, Angelique_13, AnnaLie_12, AnnabelLee_13, Antrice_12, Aoka_12, AppleCider_14, Apricot_12, Armstrong_10, Arroyo_12, Asapag_12, Atlantica_11, Audell_16, AuntGwenStacy_18, AustinPowers_10, AvGardian_11, Avani_13, Avocadoman_11, Axym_12, AylexOG_12, Azaz_11, Azira_14, B22_12, BAjuniper_11, BENtherdunthat_12, Babushka_11, BabyDaisy_12, BabyYoda_11, Bachaco_11, BadWillHunting_13, BaileyBlu_11, Balloona_11, Barnstormer_10, Basilisk_12, Bavilard_12, BearBQ_12, Bedetta_13, BeeGee_13, Beethoven_14, BelmontSKP_12, Bengal_11, Bennie_10, Bernstein_10, Bibble12_13, BigChungus_11, BigMack_10, BillDoor_14, Bipper_18, Birdsong_12, Biskit_13, Blarby_14, Blondies_13, Bodacious_10, BotCity_12, Bradissa_13, Brahms_10, BrayBeast_11, BritBrat_13, BrotherBLo_14, Brynnie_12, BubbaBear_11, Bubble_12, Budski_12, Burnsey_12, Burritobowl_11, Button_13, Buttrmlkdreams_12, CallieOMalley_14, CallinAllBarbz_11, Camara_11, CanFranMach_11, CanesSauce_12, Canowicakte_14, CaramelLatte_12, CardboardBox_13, Caron_10, Carpal_14, Carsonalex_13, Cashington_11, Cashline_13, Celaena_11, ChamoyPickle_13, Che9d_13, CheeseTouch_12, CherryonLim_13, ChewChew_10, Chickaboom_11, ChickenTender_14, Chicken_12, ChiliPepper_11, ChipsNGuac_13, ChocoMunchkin_12, Cholula_14, Chridison_10, Christian_10, Clayda5_10, Cleo_12, CliffHanger_12, CocoCinnamon_15, CocoaPuff_11, Colossa_13, Coltrane_10, Colusalem_12, Confidence_13, Coral_12, Cote_13, Cozz_12, Cracklewink_18, Crater_12, CristinaYang_10, CroZenni_11, CupcakePrincess_11, Cygnet_12, DS6A_15, Daiboju_10, Damocles_13, DanHam62_11, Daob_13, Demsculpinboyz_13, DickRichards_11, Didgeridoo_12, Dino_14, DirtyBubble_11, Dismas_11, Doobus_11, Doucette_12, DrRobert_10, Dre3_12, DreamTeam_10, E6_13, EMsquaredA_13, Ecliptus_12, Eden_10, Eesa_12, ElJefes_11, Elfy_10, Elinal_13, Eliott_12, Elva_12, Emalyn_11, Emotion_11, EnalisNailo_13, EstebanJulior_10, Eula_11, Eunoia_10, EvenBluerMoon_12, Exile_11, Ezurina_12, Faiyaz_18, Feastonyeet_11, Finalfrontier_12, Fingolfin_11, FlameThrower_11, Floral_13, Fluke_14, Franklin22_10, Fribs8_13, Frickyeah_12, Fryberger_44, G4_12, GTE2_10, Gack_10, Gaia_9, Galaxy_12, Gerri43_13, Getalong_12, GiKK_15, Gibbous_12, Gisselle_10, Glenn_14, Glotell_11, GoldHunter_12, GramZayde_12, Gravel_13, Graynor_14, GreenHearts_14, Greenhouse_14, GrimEater_11, Grist_11, Guey18_49, HamCheese_11, HannahPhantana_13, HeadNerd_10, Herb_10, Hereford_13, Hexbug_14, Hilltopfarm_18, HippoPololi_14, Holliday_12, Horseradish_13, Horus_12, Huckleberry_10, HunterDalle_10, Huntingdon_14, Icarian_12, Immaculata_14, InLimbo_12, IndyLu_11, Jabb_11, Jabbawokkie_14, Jablanski_13, Jamun_12, Jamzy_15, JanetJ_12, Jankie_11, JeanClaude_11, Jerole_13, Joann_14,

Johnathan_11, Jovita_11, Juicebox_13, Jumboset_14, Juno112_11, KHumphrey_11, Kalizoi_14, Kamaru_12, Kamdara_11, Kate33_11, Katzastrophic_11, KayGee_12, KeAlii_12, Keelan_42, KendraB23_13, Kenna_12, Kenzers_11, Kepler_12, Kieran_11, KingBob_10, Kittykat_10, Korra_14, Kromp_13, Kuleana_12, Kumotta_12, Kuwabara_12, Lahqtemish_11, Lakshmi_14, Laphuphu24k_11, Lasagna_10, LastNadiia_16, Lauer_11, Lennox_10, Leona_11, Leroy_12, LilSpotty_11, LilStuart_10, Lilas_13, Lilo27_11, LimaBean_11, LisoBros_11, LitninMcQueen_12, Litotes_14, LittleTokyo_12, LonelyBoi_13, LongHai_15, Loviatar_11, Lucky10_11, Lucy_10, Lunar_13, Lutum_12, Lynlen_11, MAnor_12, MScarn_14, MaGuCo_11, MaVan_14, Mabodamaca_11, Maja_11, Makima_14, Makoto_10, Malisha_12, Malvina_14, MamaPearl_10, MargaretKali_12, Margaret_15, Maria1952_10, Marteena_13, Mayweather_13, McDazzle_11, MeganNoll_14, Melons_13, Michkear_14, Milomuff_12, Mireles_13, Misaeng_14, Moki_10, Morkie_11, Morrey_18, MortyNRick_12, MrBoss_14, MrGloopy_14, MsUbiquitous_11, MunkgeeRoachy_12, Nancia_10, Nebkiss_9, Neroxid_11, Nesbitt_11, Neuvillette_13, Nibbles_14, Niblet_12, Nicky22_12, Nina_13, NoSwimming_13, Nodigi_14, Nubia_14, ODay_12, OMalley_10, Oppalora_11, Orcanus_12, Orla_14, OtsoOtso_12, OurGirlNessie_10, Oxynfrius_14, PFR1_09, PFR2_09, PartyCup_14, PastaFagioli_11, Pecas_11, Pelletreau_13, Periwinkle_12, Phabuloso_12, PhigPhack_11, PhirstandPhine_13, Phisb_11, Phistory_12, PhluffyCoco_11, PhorbesPhlower_11, Pigu_10, Pineda_13, PinkFriday_10, PitaDog_10, Polka_12, Pollux_13, PondAmelia_12, Pons_12, Posh_13, PotPie_12, Potatoes_14, PrairieDogTown_12, Preamble_10, PsychoKiller_12, Pterodactyl_10, Pumancara_10, Pytheas_13, QMacho_12, Quasar_12, Quenya_12, RADical_13, RAP15_14, REQ2_11, RSchmailzl_13, RanchParmCat_15, Rattail_11, Raya_11, RcigaStruga_14, RedBaron_14, RedFox_11, Reedo_12, Renna12_12, Riovina_10, Riverdale_14, Roberts_13, Rollins_10, Rona_11, Ronaldo_47, Rooter_10, Rowa_11, Rozby_14, Ruchi_12, SPB78_12, Salvus_15, Samy_16, SanaSana_12, SansAfet_11, SarBear_11, Sarge_11, Savage2526_14, Scotia_13, Scuttle_14, Sergei_10, Shambre1_12, Sharkboy_11, ShawBrad_12, SheckWes_11, Shen_13, Shoya_10, SilverChicken_13, SirBeanington_11, SketchMex_11, Skyerus_11, Skylord_10, Slay_11, Sleepyhead_12, Socotra_13, Softsoap_11, Solea_12, Soondubu_11, Sopespian_12, Soul22_13, Spartoi_10, Spooky_12, Squiddly_13, Starburst_13, SteamedHams_14, Stellammi_9, Stoor_11, Stromboli_11, StuartMinion_11, Studio_13, SuMoo_10, SummitAcademy_11, Supakev_10, Suppi_14, Survivors_14, SweatNTears_14, Swervy_11, TMaxx_13, TPA4_12, Tarnish_12, TattModd_14, TaylorSipht_12, Temper16_10, ThursdayNight_11, Toad24_13, Tolls_14, TripleC_16, Troje_12, TukTuk_11, Typha_18, Typhonomachy_12, Urla_10, UtzChips_10, VWB_11, Vallejo_14, VanLee_13, Vine_13, Vitas_10, Volt_46, Vulpecula_12, Vulture_10, WalkingDead_11, Wallaby_16, Wawa_14, Wayne_14, Westrich_13, Whitney_12, WileyE_11, Wolfwood_14, WonderBoy_10, Wrigley_13, Yakult_13, Yarn_11, Yoshi_13, Yucky_12, Yummy_13, Zapner_14, Zareef_14, Zeta1847_10, Zhuangyuan_13, Ziko_47, Zixiang_12, Zorro_14,

Summary by start number:

Start 17:
• Found in 88 of 590 (14.9%) of genes in pham
• Manual Annotations of this start: 76 of 518
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Albanese_14 (AK), AppleCider_14 (AK), Beethoven_14 (AK), Bennie_10 (AK), BigMack_10 (AK), Bodacious_10 (AK),

BrotherBLo_14 (AK), CallieOMalley_14 (AK), Canowicakte_14 (AK), Carpal_14 (AK), ChewChew_10 (AK), Cholula_14 (AK), Chridison_10 (AK), Christian_10 (AK), CristinaYang_10 (AK), Daiboju_10 (AK), Dino_14 (AK), DrRobert_10 (AK), DreamTeam_10 (AK), EstebanJulior_10 (AK), Fluke_14 (AK), Gisselle_10 (AK), Glenn_14 (AK), Graynor_14 (AK), GreenHearts_14 (AK), Greenhouse_14 (AK), HeadNerd_10 (AK), Herb_10 (AK), Huckleberry_10 (AK), Huntingdon_14 (AK), Immaculata_14 (AK), Joann_14 (AK), Jumboset_14 (AK), Kalizoi_14 (AK), KingBob_10 (AK), Kittykat_10 (AK), Korra_14 (AK), Lakshmi_14 (AK), Lasagna_10 (AK), Lennox_10 (AK), LilStuart_10 (AK), Litotes_14 (AK), Lucy_10 (AK), Makoto_10 (AK), MamaPearl_10 (AK), Maria1952_10 (AK), MeganNoll_14 (AK), Misaeng_14 (AK), Moki_10 (AK), MrGloopy_14 (AK), Nancia_10 (AK), Nubia_14 (AK), OurGirlNessie_10 (AK), Oxynfrius_14 (AK), PartyCup_14 (AK), PinkFriday_10 (AK), PitaDog_10 (AK), Potatoes_14 (AK), Preamble_10 (AK), Pterodactyl_10 (AK), Pumancara_10 (AK), RAP15_14 (AK), RcigaStruga_14 (AK), Riverdale_14 (AK), Rozby_14 (AK), Savage2526_14 (AK), Scuttle_14 (AK), Sergei_10 (AK), Suppi_14 (AK), TattModd_14 (AK), Temper16_10 (AK), Urla_10 (AK), Vallejo_14 (AK), Wawa_14 (AK), Wayne_14 (AK), WonderBoy_10 (AK), Zorro_14 (AK),

Start 19:
• Found in 26 of 590 (4.4%) of genes in pham
• Manual Annotations of this start: 9 of 518
• Called 34.6% of time when present
• Phage (with cluster) where this start called: Aledel_10 (AK), AustinPowers_10 (AK), Eunoia_10 (AK), HunterDalle_10 (AK), OMalley_10 (AK), Riovina_10 (AK), Rowa_11 (BL), Supakev_10 (AK), Vulture_10 (AK),

Start 20:
• Found in 70 of 590 (11.9%) of genes in pham
• Manual Annotations of this start: 56 of 518
• Called 98.6% of time when present
• Phage (with cluster) where this start called: Abidatro_12 (AS1), AdoptaAdorbs_11 (AS3), AlexMinion_11 (AS3), Amanises_13 (AS1), Amelia_13 (AS2), AmiCi24_11 (AS3), Amphitrite_11 (AS3), Andrew_12 (AS3), Antrice_12 (AS2), Atlantica_11 (AS3), Azaz_11 (AS3), Babushka_11 (AS3), BadWillHunting_13 (AS2), Basilisk_12 (AS1), Bedetta_13 (AS2), Bibble12_13 (AS2), Brynnie_12 (AS1), Camara_11 (AS3), Chickaboom_11 (AS1), Chicken_12 (AS1), Colusalem_12 (AS2), Coral_12 (AS2), Cote_13 (AS2), Cygnet_12 (AS2), Damocles_13 (AS2), DanHam62_11 (AS3), Daob_13 (AS2), Eesa_12 (AS1), Fingolfin_11 (AS3), Galaxy_12 (AS1), Glotell_11 (AS3), GramZayde_12 (AS2), Gravel_13 (AS1), HamCheese_11 (AS3), HannahPhantana_13 (AS2), Jamun_12 (AS1), Jerole_13 (AS2), Juno112_11 (AS3), KHumphrey_11 (AS3), KendraB23_13 (AS1), Kepler_12 (AS2), Kuleana_12 (AS2), Laphuphu24k_11 (AS3), Leona_11 (AS3), LittleTokyo_12 (AS2), Lunar_13 (AS2), Melons_13 (AS2), Niblet_12 (AS1), Oppalora_11 (AS3), Orcanus_12 (AS1), OtsoOtso_12 (AS2), Pelletreau_13 (AS1), PhirstandPhine_13 (AS2), PhluffyCoco_11 (AS3), Pineda_13 (AS2), Polka_12 (AS2), Rattail_11 (AS3), RedFox_11 (AS3), Renna12_12 (AS3), Ruchi_12 (AS1), Shen_13 (AS1), StuartMinion_11 (AS3), TaylorSipht_12 (AS1), Toad24_13 (AS1), Vulpecula_12 (AS1), Westrich_13 (AS1), WileyE_11 (AS1), Zhuangyuan_13 (AS2), Zixiang_12 (AS1),

Start 22:
• Found in 6 of 590 (1.0%) of genes in pham
• Manual Annotations of this start: 6 of 518
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Fryberger_44 (DP), Guey18_49 (DP), Keelan_42 (DP), Ronaldo_47 (DP), Volt_46 (DP), Ziko_47 (DP),

Start 24:
• Found in 6 of 590 (1.0%) of genes in pham
• Manual Annotations of this start: 3 of 518
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Bipper_18 (Y), Cracklewink_18 (Y), Hilltopfarm_18 (Y),

Start 25:
• Found in 6 of 590 (1.0%) of genes in pham
• Manual Annotations of this start: 3 of 518
• Called 50.0% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_18 (Y), Faiyaz_18 (Y), Typha_18 (Y),

Start 28:
• Found in 5 of 590 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 518
• Called 40.0% of time when present
• Phage (with cluster) where this start called: AbbeyMikolon_11 (BL), Nesbitt_11 (BL),

Start 30:
• Found in 3 of 590 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 518
• Called 100.0% of time when present
• Phage (with cluster) where this start called: REQ2_11 (singleton), SPB78_12 (BA), Whack_11 (singleton),

Start 31:
• Found in 3 of 590 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 518
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Colossa_13 (KA), VWB_11 (BA), VanLee_13 (KA),

Start 32:
• Found in 1 of 590 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 518
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Zeta1847_10 (EH),

Start 33:
• Found in 109 of 590 (18.5%) of genes in pham
• Manual Annotations of this start: 96 of 518
• Called 98.2% of time when present
• Phage (with cluster) where this start called: AEgle_12 (AZ1), AGrandiflora_12 (AZ1), AceofSpades_10 (AZ4), Adolin_12 (AZ1), Adumb2043_12 (AZ1), Aleemily_12 (DZ), Amploria_12 (AZ1), Amyev_12 (AZ1), Asa16_12 (AZ1), Ascela_12 (AZ1), Ashes_12 (AZ5), Beaupre_12 (AZ5), Berrie_12 (AZ1), Buldak_11 (EB), Cafasso_12 (DZ), Cappuccino_12 (AZ5), Cassia_12 (AZ1), Cen1621_10 (EH), Community_13 (AZ1), Crewmate_13 (AZ1), Cyan_12 (AZ1), Donkey_12 (AZ5), DrManhattan_12 (AZ1),

DrSierra_12 (AZ1), Elezi_12 (AZ1), Eraser_12 (AZ1), FiveHead_11 (AZ4), Floof_11 (EH), Flutur_12 (AZ), Forester_11 (EH), Gambol_12 (AZ5), GardenState_11 (EH), Gibbzilla_12 (FB), Giorgio_12 (AZ5), Gretchen_11 (EH), Gumpizza_12 (AZ5), Halsey_12 (AZ5), Honk_10 (EH), IAmGroot_11 (EH), IUFootball_11 (AZ2), Iter_12 (AZ1), IttyBittyPiggy_12 (AZ1), Janeemi_13 (AZ1), JasmineDragon_11 (AZ4), Joemato_12 (AZ1), JohnDoe_12 (AZ1), JohnThicc_11 (AZ4), Jstan_12 (AZ1), JuneStar_12 (AZ1), Kalimba_12 (AZ5), Kaylissa_12 (AZ1), LadyAstra_11 (AZ4), Lego_12 (AZ1), Liebe_11 (AZ2), Lizalica_12 (AZ1), London_12 (AZ1), Maureen_11 (AZ2), MiniMommy_10 (AZ4), MissSwiss_12 (AZ1), ModicumRichard_12 (DZ), Morgana_12 (DZ), Moss_12 (AZ5), Mudpuppy_12 (AZ1), Mysterium_12 (AZ5), Niobe_12 (AZ1), Nitro_12 (AZ1), ObLaDi_12 (DZ), ObiToo_12 (AZ1), Olliecat_11 (EB), Origami_11 (AZ4), PandaPo_12 (AZ1), Percival_11 (EH), Phives_13 (AZ1), Pixelle_12 (AZ1), Powerpuff_12 (AZ1), Pumpkins_12 (AZ1), RockScotty_12 (AZ5), Sabourin_12 (AZ5), Schaffner_12 (AZ1), ShakeItOph_11 (AZ4), Shayna_10 (EB), Simpson_13 (AZ1), Skelbel_12 (AZ1), Snek_12 (AZ3), Sooty_12 (AZ5), SpecialK_12 (AZ5), Squircle_11 (EB), Stuu_12 (AZ5), Subaru_12 (AZ1), Sue2_12 (AZ1), SunnyD_10 (EB), SuperHands_11 (EH), Tallboi_12 (AZ1), Tbone_12 (AZ1), Teagster_10 (EB), TforTroy_12 (AZ1), Tian_12 (AZ1), Tuck_13 (AZ1), Turab_12 (AZ1), Tutumahutu_12 (AZ1), Tweety19_12 (AZ3), VResidence_12 (AZ1), VroomVroom_11 (AZ4), Warda_12 (AZ1), Wildwest_13 (AZ1), Yang_12 (AZ1), YesChef_12 (AZ1),

Start 34:
• Found in 15 of 590 (2.5%) of genes in pham
• Manual Annotations of this start: 10 of 518
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Barnstormer_10 (EH), Caron_10 (EH), Elfy_10 (FP), Emotion_11 (AZ4), Exile_11 (AZ6), MaGuCo_11 (AZ2), Mabodamaca_11 (EH), Michkear_14 (AZ), Soondubu_11 (AZ6), SuMoo_10 (EH), ThursdayNight_11 (AZ), UtzChips_10 (EH),

Start 35:
• Found in 10 of 590 (1.7%) of genes in pham
• Manual Annotations of this start: 7 of 518
• Called 90.0% of time when present
• Phage (with cluster) where this start called: CliffHanger_12 (EB), Eden_10 (EB), Franklin22_10 (EB), GrimEater_11 (FP), Jankie_11 (FP), Kromp_13 (singleton), LisoBros_11 (FP), Neroxid_11 (FQ2), Skyerus_11 (FQ2),

Start 37:
• Found in 57 of 590 (9.7%) of genes in pham
• Manual Annotations of this start: 52 of 518
• Called 98.2% of time when present
• Phage (with cluster) where this start called: Abigail_11 (EB), Akino08_11 (EB), Albedo_11 (EB), Albright_11 (EB), AnnaLie_12 (EB), Arroyo_12 (EB), Avocadoman_11 (EB), AylexOG_12 (EB), BabyDaisy_12 (EB), BabyYoda_11 (EB), BelmontSKP_12 (EB), Bengal_11 (EB), BubbaBear_11 (EB), Burritobowl_11 (EB), CanFranMach_11 (EB), Cashington_11 (EB), CroZenni_11 (EB), CupcakePrincess_11 (EB), DickRichards_11 (EB), Doobus_11 (EB), Elva_12 (EB), Eula_11 (EB), Finalfrontier_12 (EB), Grist_11 (EB), Icarian_12 (EB), IndyLu_11 (EB), Jabb_11 (EB), Johnathan_11 (EB), Jovita_11 (EB), Kate33_11 (EB), Kenzers_11 (EB), Lilo27_11 (EB), LimaBean_11 (EB), Loviatar_11 (EB), Lynlen_11 (EB), Milomuff_12 (EB), MsUbiquitous_11 (EB), Nicky22_12 (EB), Pecas_11 (EB),

PhigPhack_11 (EB), Phisb_11 (EB), PondAmelia_12 (EB), QMacho_12 (EB), SanaSana_12 (EB), SansAfet_11 (EB), SarBear_11 (EB), Shambre1_12 (singleton), SirBeanington_11 (EB), Slay_11 (EB), Softsoap_11 (EB), Solea_12 (EB), Stoor_11 (EB), Stromboli_11 (EB), Swervy_11 (EB), TukTuk_11 (EB), WalkingDead_11 (EB),

Start 38:
• Found in 2 of 590 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 518
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KeAlii_12 (AZ1), Reedo_12 (AZ1),

Start 39:
• Found in 15 of 590 (2.5%) of genes in pham
• Manual Annotations of this start: 15 of 518
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AvGardian_11 (EB), Bachaco_11 (EB), Celaena_11 (EB), ChiliPepper_11 (EB), Didgeridoo_12 (EB), Dismas_11 (EB), FlameThrower_11 (EB), Kamdara_11 (EB), Katzastrophic_11 (EB), Kieran_11 (EB), Lahqtemish_11 (EB), PastaFagioli_11 (EB), Quenya_12 (EB), Rona_11 (EB), Sharkboy_11 (EB),

Start 40:
• Found in 39 of 590 (6.6%) of genes in pham
• Manual Annotations of this start: 30 of 518
• Called 94.9% of time when present
• Phage (with cluster) where this start called: Agamotto_15 (FR), Alatato_10 (FB), AnnabelLee_13 (FR), Aoka_12 (FO), Audell_16 (FR), BaileyBlu_11 (FP), BrayBeast_11 (FB), CallinAllBarbz_11 (FP), CardboardBox_13 (FR), ChamoyPickle_13 (FR), ChipsNGuac_13 (FR), CocoCinnamon_15 (FO), EvenBluerMoon_12 (FO), Ezurina_12 (FR), Gerri43_13 (FR), Hereford_13 (FO), JanetJ_12 (FO), JeanClaude_11 (FB), Kumotta_12 (FB), LastNadiia_16 (FR), Maja_11 (FO), Makima_14 (FR), MargaretKali_12 (FB), Mireles_13 (FR), Morrey_18 (FO), Neuvillette_13 (FR), NoSwimming_13 (FO), Pigu_10 (FB), PrairieDogTown_12 (FO), Roberts_13 (FR), Rooter_10 (FB), Sarge_11 (FB), Scotia_13 (FO), Shoya_10 (FB), Studio_13 (FR), TMaxx_13 (FR), TripleC_16 (FR),

Start 41:
• Found in 60 of 590 (10.2%) of genes in pham
• Manual Annotations of this start: 32 of 518
• Called 56.7% of time when present
• Phage (with cluster) where this start called: Armstrong_10 (EB), Asapag_12 (DN1), BAjuniper_11 (EB), BENtherdunthat_12 (DN1), Bernstein_10 (EB), BotCity_12 (DN), Brahms_10 (EB), Budski_12 (DN), CheeseTouch_12 (DN1), Clayda5_10 (EB), Coltrane_10 (EB), DirtyBubble_11 (EB), Frickyeah_12 (DN1), Gack_10 (EB), Getalong_12 (DN1), Holliday_12 (DN1), Horus_12 (DN1), Kamaru_12 (DN1), Kenna_12 (DN1), Leroy_12 (DN1), LitninMcQueen_12 (DN1), Lutum_12 (DN1), Malisha_12 (DN), Periwinkle_12 (DN1), Phabuloso_12 (DN1), Phistory_12 (DN1), Rollins_10 (EB), ShawBrad_12 (DN1), Skylord_10 (EB), Spooky_12 (DN2), Squiddly_13 (DN2), TPA4_12 (singleton), Vitas_10 (EB), Whitney_12 (DN1),

Start 43:
• Found in 2 of 590 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 518

• Called 50.0% of time when present
• Phage (with cluster) where this start called: Spartoi_10 (singleton),

Start 47:
• Found in 18 of 590 (3.1%) of genes in pham
• Manual Annotations of this start: 1 of 518
• Called 5.6% of time when present
• Phage (with cluster) where this start called: Samy_16 (singleton),

Start 49:
• Found in 99 of 590 (16.8%) of genes in pham
• Manual Annotations of this start: 72 of 518
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Agatha_12 (CT), AikoCarson_11 (CT), Amok_11 (CT), AndPeggy_11 (CT), Axym_12 (CT), Azira_14 (CT), Balloona_11 (CT), Bavilard_12 (CT), BigChungus_11 (CT), BillDoor_14 (CT), Biskit_13 (CT), Blondies_13 (CT), Bubble_12 (CT), Burnsey_12 (CT), Button_13 (CT), Buttrmlkdreams_12 (CT), CanesSauce_12 (CT), CaramelLatte_12 (CT), Carsonalex_13 (CT), CherryonLim_13 (CT), ChickenTender_14 (CT), ChocoMunchkin_12 (CT), Cleo_12 (CT), CocoaPuff_11 (CT), Cozz_12 (CT), DS6A_15 (singleton), Dre3_12 (CT), ElJefes_11 (CT), Elinal_13 (CT), Eliott_12 (CT), Emalyn_11 (CT), Feastonyeet_11 (CT), Fribs8_13 (CT), Gaia_9 (X), GiKK_15 (CT), Gibbous_12 (CT), GoldHunter_12 (CT), Hexbug_14 (CT), HippoPololi_14 (CT), Horseradish_13 (CT), Jamzy_15 (CT), KayGee_12 (CT), Lauer_11 (CT), LilSpotty_11 (singleton), MAnor_12 (CT), MScarn_14 (CT), MaVan_14 (CT), Malvina_14 (CT), Margaret_15 (CT), Mayweather_13 (CT), McDazzle_11 (CT), MrBoss_14 (AK), MunkgeeRoachy_12 (CT), Nebkiss_9 (X), Nibbles_14 (CT), Nina_13 (CT), Nodigi_14 (CT), Orla_14 (CT), Pons_12 (CT), PotPie_12 (CT), PsychoKiller_12 (CT), Quasar_12 (CT), RADical_13 (CT), RSchmailzl_13 (CT), RanchParmCat_15 (CT), RedBaron_14 (CT), SheckWes_11 (CT), SketchMex_11 (CT), Socotra_13 (CT), Sopespian_12 (CT), Starburst_13 (CT), SteamedHams_14 (CT), Stellammi_9 (UNK), SummitAcademy_11 (CT), Survivors_14 (CT), SweatNTears_14 (CT), Tarnish_12 (CT), Tolls_14 (CT), Troje_12 (CT), Typhonomachy_12 (CT), Vine_13 (CT), Wallaby_16 (CT), Wolfwood_14 (CT), Yakult_13 (CT), Yarn_11 (CT), Yucky_12 (CT), Yummy_13 (CT), Zareef_14 (CT),

Start 50:
• Found in 22 of 590 (3.7%) of genes in pham
• Manual Annotations of this start: 11 of 518
• Called 54.5% of time when present
• Phage (with cluster) where this start called: Apricot_12 (DN3), BearBQ_12 (DN), Birdsong_12 (DN), Crater_12 (DN3), Ecliptus_12 (DN), InLimbo_12 (DH), Kuwabara_12 (DN4), Lucky10_11 (DH), Morkie_11 (DH), MortyNRick_12 (DN), ODay_12 (DN), PhorbesPhlower_11 (DH),

Start 51:
• Found in 10 of 590 (1.7%) of genes in pham
• No Manual Annotations of this start.
• Called 10.0% of time when present
• Phage (with cluster) where this start called: AinMach_11 (AZ7),

Start 52:
• Found in 18 of 590 (3.1%) of genes in pham

• Manual Annotations of this start: 7 of 518
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Avani_13 (F2), Blarby_14 (F), Che9d_13 (F2), Demsculpinboyz_13 (F2), Jabbawokkie_14 (F2), SilverChicken_13 (F2), Soul22_13 (F2), Yoshi_13 (F2), Zapner_14 (F2),

Start 55:
• Found in 1 of 590 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 518
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Juicebox_13 (singleton),

Start 56:
• Found in 23 of 590 (3.9%) of genes in pham
• Manual Annotations of this start: 21 of 518
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Angelique_13 (CY1), B22_12 (BW), BeeGee_13 (CY5), Bradissa_13 (CY1), BritBrat_13 (CY2), Cashline_13 (CY6), Confidence_13 (CY1), Doucette_12 (BW), E6_13 (BW), EMsquaredA_13 (CY1), EnalisNailo_13 (CY1), Floral_13 (CY1), G4_12 (BW), Jablanski_13 (CY3), Lilas_13 (CY1), LonelyBoi_13 (CY7), Marteena_13 (CY1), PFR1_09 (BX), PFR2_09 (BX), Pollux_13 (CY1), Posh_13 (CY4), Pytheas_13 (CY3), Wrigley_13 (CY4),

Start 74:
• Found in 78 of 590 (13.2%) of genes in pham
• No Manual Annotations of this start.
• Called 1.3% of time when present
• Phage (with cluster) where this start called: GTE2_10 (CT),

Start 85:
• Found in 91 of 590 (15.4%) of genes in pham
• No Manual Annotations of this start.
• Called 1.1% of time when present
• Phage (with cluster) where this start called: Raya_11 (FQ2),

Start 86:
• Found in 3 of 590 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 8UZL_14 (AB), LongHai_15 (AB), Salvus_15 (AB),

Start 133:
• Found in 1 of 590 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 518
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sleepyhead_12 (singleton),

Summary by clusters:

There are 47 clusters represented in this pham: DN, FP, FR, BA, DH, CY2, BL, CY1, FB, BW, DZ, BX, DP, FO, UNK, CY3, F, DN4, DN1, DN3, DN2, CY6, AS3, AS2, AS1, AB, CY7, EH, CY5, CY4, AK, KA, EB, Y, X, singleton, AZ, CT, F2, FQ2, AZ1, AZ2,

AZ3, AZ4, AZ5, AZ6, AZ7,

Info for manual annotations of cluster AK:
•Start number 17 was manually annotated 76 times for cluster AK.
•Start number 19 was manually annotated 8 times for cluster AK.

Info for manual annotations of cluster AS1:
•Start number 20 was manually annotated 18 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 20 was manually annotated 19 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 20 was manually annotated 19 times for cluster AS3.

Info for manual annotations of cluster AZ:
•Start number 34 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 33 was manually annotated 47 times for cluster AZ1.
•Start number 38 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 33 was manually annotated 3 times for cluster AZ2.
•Start number 34 was manually annotated 1 time for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 33 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 33 was manually annotated 7 times for cluster AZ4.
•Start number 34 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 33 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 34 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BL:
•Start number 19 was manually annotated 1 time for cluster BL.
•Start number 28 was manually annotated 2 times for cluster BL.

Info for manual annotations of cluster BW:
•Start number 56 was manually annotated 4 times for cluster BW.

Info for manual annotations of cluster CT:
•Start number 49 was manually annotated 67 times for cluster CT.

Info for manual annotations of cluster CY1:
•Start number 56 was manually annotated 9 times for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 56 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:
•Start number 56 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:
•Start number 56 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:
•Start number 56 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:
•Start number 56 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:
•Start number 56 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster DH:
•Start number 50 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster DN:
•Start number 41 was manually annotated 3 times for cluster DN.
•Start number 50 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 41 was manually annotated 16 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 41 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:
•Start number 50 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:
•Start number 50 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DP:
•Start number 22 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster DZ:
•Start number 33 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster EB:
•Start number 33 was manually annotated 6 times for cluster EB.
•Start number 35 was manually annotated 3 times for cluster EB.
•Start number 37 was manually annotated 51 times for cluster EB.
•Start number 39 was manually annotated 15 times for cluster EB.
•Start number 41 was manually annotated 11 times for cluster EB.

Info for manual annotations of cluster EH:
•Start number 32 was manually annotated 1 time for cluster EH.
•Start number 33 was manually annotated 9 times for cluster EH.
•Start number 34 was manually annotated 5 times for cluster EH.

Info for manual annotations of cluster F2:
•Start number 52 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster FB:
•Start number 33 was manually annotated 1 time for cluster FB.
•Start number 40 was manually annotated 8 times for cluster FB.

Info for manual annotations of cluster FO:
•Start number 40 was manually annotated 9 times for cluster FO.

Info for manual annotations of cluster FP:
•Start number 34 was manually annotated 1 time for cluster FP.
•Start number 35 was manually annotated 3 times for cluster FP.
•Start number 40 was manually annotated 2 times for cluster FP.

Info for manual annotations of cluster FR:
•Start number 40 was manually annotated 11 times for cluster FR.

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

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

Info for manual annotations of cluster X:
•Start number 49 was manually annotated 2 times for cluster X.

Info for manual annotations of cluster Y:
•Start number 24 was manually annotated 3 times for cluster Y.
•Start number 25 was manually annotated 3 times for cluster Y.

Gene Information:

Gene: 8UZL_14 Start: 8973, Stop: 9347, Start Num: 86
Candidate Starts for 8UZL_14:
(51, 8910), (Start: 52 @8913 has 7 MA's), (80, 8961), (86, 8973), (94, 8994), (95, 9000), (122, 9072), (131, 9087), (151, 9153), (157, 9165), (164, 9183), (182, 9228), (200, 9291),

Gene: AEgle_12 Start: 9049, Stop: 9459, Start Num: 33
Candidate Starts for AEgle_12:
(Start: 33 @9049 has 96 MA's), (57, 9094), (71, 9118), (188, 9379), (200, 9412),

Gene: AGrandiflora_12 Start: 9036, Stop: 9449, Start Num: 33
Candidate Starts for AGrandiflora_12:

(Start: 33 @9036 has 96 MA's), (71, 9105), (144, 9255), (188, 9366), (200, 9399),

Gene: AbbeyMikolon_11 Start: 7783, Stop: 8178, Start Num: 28
Candidate Starts for AbbeyMikolon_11:
(26, 7780), (Start: 28 @7783 has 2 MA's), (Start: 34 @7795 has 10 MA's), (48, 7816), (Start: 50 @7822 has 11 MA's), (Start: 52 @7828 has 7 MA's), (60, 7843), (85, 7864), (103, 7888), (139, 7957), (165, 8029), (167, 8035), (180, 8062), (190, 8092), (207, 8140),

Gene: Abidatro_12 Start: 8321, Stop: 8764, Start Num: 20
Candidate Starts for Abidatro_12:
(Start: 20 @8321 has 56 MA's), (Start: 41 @8363 has 32 MA's), (69, 8417), (108, 8471), (109, 8474), (123, 8507), (163, 8606), (175, 8633), (183, 8657), (185, 8663), (188, 8672),

Gene: Abigail_11 Start: 8030, Stop: 8425, Start Num: 37
Candidate Starts for Abigail_11:
(5, 7904), (Start: 37 @8030 has 52 MA's), (60, 8069), (85, 8096), (131, 8174), (167, 8273), (180, 8306), (210, 8399),

Gene: AceofSpades_10 Start: 7298, Stop: 7693, Start Num: 33
Candidate Starts for AceofSpades_10:
(Start: 33 @7298 has 96 MA's), (139, 7490),

Gene: Adolin_12 Start: 9024, Stop: 9440, Start Num: 33
Candidate Starts for Adolin_12:
(Start: 33 @9024 has 96 MA's), (142, 9240),

Gene: AdoptaAdorbs_11 Start: 7902, Stop: 8342, Start Num: 20
Candidate Starts for AdoptaAdorbs_11:
(Start: 20 @7902 has 56 MA's), (Start: 47 @7953 has 1 MA's), (109, 8055), (111, 8058), (126, 8094), (131, 8100), (138, 8115), (163, 8187), (175, 8214), (208, 8313), (210, 8319), (213, 8331),

Gene: Adumb2043_12 Start: 9048, Stop: 9458, Start Num: 33
Candidate Starts for Adumb2043_12:
(Start: 33 @9048 has 96 MA's), (57, 9093), (71, 9117), (188, 9378), (200, 9411),

Gene: Agamotto_15 Start: 10788, Stop: 11180, Start Num: 40
Candidate Starts for Agamotto_15:
(Start: 40 @10788 has 30 MA's), (48, 10800), (105, 10890), (113, 10902), (144, 10974), (163, 11031), (215, 11172),

Gene: Agatha_12 Start: 7522, Stop: 7932, Start Num: 49
Candidate Starts for Agatha_12:
(Start: 49 @7522 has 72 MA's), (70, 7564), (74, 7570), (95, 7609), (115, 7651), (139, 7705), (159, 7765),

Gene: AikoCarson_11 Start: 7243, Stop: 7653, Start Num: 49
Candidate Starts for AikoCarson_11:
(Start: 49 @7243 has 72 MA's), (70, 7285), (74, 7291), (95, 7330), (115, 7372), (139, 7426), (154, 7474),

Gene: AinMach_11 Start: 8183, Stop: 8566, Start Num: 51
Candidate Starts for AinMach_11:
(Start: 33 @8150 has 96 MA's), (Start: 34 @8153 has 10 MA's), (51, 8183), (57, 8195), (208, 8537),

Gene: Akino08_11 Start: 8216, Stop: 8611, Start Num: 37
Candidate Starts for Akino08_11:
(5, 8090), (Start: 37 @8216 has 52 MA's), (Start: 41 @8219 has 32 MA's), (77, 8279), (187, 8510), (195, 8543), (202, 8564),

Gene: Alatato_10 Start: 7192, Stop: 7572, Start Num: 40
Candidate Starts for Alatato_10:
(Start: 40 @7192 has 30 MA's), (76, 7252), (90, 7270), (136, 7357), (139, 7363), (176, 7459), (178, 7465), (202, 7534),

Gene: Albanese_14 Start: 10476, Stop: 10886, Start Num: 17
Candidate Starts for Albanese_14:
(Start: 17 @10476 has 76 MA's), (120, 10620), (121, 10629), (123, 10632), (139, 10662), (142, 10668), (150, 10701), (198, 10824), (208, 10848),

Gene: Albedo_11 Start: 7905, Stop: 8300, Start Num: 37
Candidate Starts for Albedo_11:
(5, 7779), (Start: 37 @7905 has 52 MA's), (60, 7944), (131, 8049), (167, 8148), (180, 8181), (210, 8274),

Gene: Albright_11 Start: 7911, Stop: 8306, Start Num: 37
Candidate Starts for Albright_11:
(5, 7785), (Start: 37 @7911 has 52 MA's), (85, 7977), (131, 8055), (167, 8154), (180, 8187), (210, 8280),

Gene: Aledel_10 Start: 7551, Stop: 7982, Start Num: 19
Candidate Starts for Aledel_10:
(Start: 17 @7545 has 76 MA's), (Start: 19 @7551 has 9 MA's), (29, 7572), (78, 7644), (120, 7701), (123, 7713), (129, 7722), (141, 7746), (198, 7905),

Gene: Aleemily_12 Start: 8416, Stop: 8820, Start Num: 33
Candidate Starts for Aleemily_12:
(Start: 33 @8416 has 96 MA's), (72, 8485), (141, 8620), (199, 8779), (208, 8800),

Gene: AlexMinion_11 Start: 7928, Stop: 8371, Start Num: 20
Candidate Starts for AlexMinion_11:
(16, 7916), (Start: 20 @7928 has 56 MA's), (77, 8036), (111, 8084), (126, 8120), (131, 8126), (163, 8213), (175, 8240), (208, 8339), (210, 8345), (213, 8357),

Gene: Amanises_13 Start: 8492, Stop: 8932, Start Num: 20
Candidate Starts for Amanises_13:
(16, 8480), (Start: 20 @8492 has 56 MA's), (65, 8582), (93, 8624), (108, 8642), (109, 8645), (126, 8684), (163, 8777), (175, 8804), (183, 8828), (195, 8864), (208, 8900),

Gene: Amelia_13 Start: 8497, Stop: 8940, Start Num: 20
Candidate Starts for Amelia_13:
(Start: 20 @8497 has 56 MA's), (65, 8587), (69, 8593), (108, 8647), (109, 8650), (126, 8689), (175, 8809), (183, 8833), (208, 8905), (210, 8911),

Gene: AmiCi24_11 Start: 7902, Stop: 8342, Start Num: 20
Candidate Starts for AmiCi24_11:

(Start: 20 @7902 has 56 MA's), (Start: 47 @7953 has 1 MA's), (109, 8055), (111, 8058), (126, 8094), (131, 8100), (138, 8115), (163, 8187), (175, 8214), (208, 8313), (210, 8319), (213, 8331),

Gene: Amok_11 Start: 7243, Stop: 7653, Start Num: 49
Candidate Starts for Amok_11:
(Start: 49 @7243 has 72 MA's), (70, 7285), (74, 7291), (95, 7330), (115, 7372), (139, 7426), (154, 7474),

Gene: Amphitrite_11 Start: 7900, Stop: 8340, Start Num: 20
Candidate Starts for Amphitrite_11:
(Start: 20 @7900 has 56 MA's), (Start: 47 @7951 has 1 MA's), (109, 8053), (111, 8056), (126, 8092), (131, 8098), (138, 8113), (163, 8185), (175, 8212), (208, 8311), (210, 8317), (213, 8329),

Gene: Amploria_12 Start: 9048, Stop: 9458, Start Num: 33
Candidate Starts for Amploria_12:
(Start: 33 @9048 has 96 MA's), (57, 9093), (71, 9117), (188, 9378), (200, 9411),

Gene: Amyev_12 Start: 9064, Stop: 9477, Start Num: 33
Candidate Starts for Amyev_12:
(Start: 33 @9064 has 96 MA's), (57, 9109), (144, 9283), (188, 9394), (200, 9427),

Gene: AndPeggy_11 Start: 7534, Stop: 7944, Start Num: 49
Candidate Starts for AndPeggy_11:
(Start: 49 @7534 has 72 MA's), (66, 7570), (70, 7576), (74, 7582), (95, 7621), (115, 7663), (139, 7717), (159, 7777),

Gene: Andrew_12 Start: 8281, Stop: 8724, Start Num: 20
Candidate Starts for Andrew_12:
(Start: 20 @8281 has 56 MA's), (Start: 47 @8332 has 1 MA's), (65, 8371), (71, 8380), (108, 8431), (109, 8434), (111, 8437), (126, 8473), (131, 8479), (175, 8593), (180, 8608), (208, 8692), (210, 8698), (213, 8710),

Gene: Angelique_13 Start: 8261, Stop: 8653, Start Num: 56
Candidate Starts for Angelique_13:
(Start: 56 @8261 has 21 MA's), (148, 8465),

Gene: AnnaLie_12 Start: 8320, Stop: 8715, Start Num: 37
Candidate Starts for AnnaLie_12:
(5, 8194), (Start: 37 @8320 has 52 MA's), (60, 8359), (85, 8386), (131, 8464), (167, 8563), (180, 8596), (210, 8689),

Gene: AnnabelLee_13 Start: 7727, Stop: 8119, Start Num: 40
Candidate Starts for AnnabelLee_13:
(Start: 40 @7727 has 30 MA's), (102, 7826), (105, 7829), (129, 7880), (131, 7883), (163, 7970), (164, 7973), (207, 8087), (215, 8111),

Gene: Antrice_12 Start: 8237, Stop: 8680, Start Num: 20
Candidate Starts for Antrice_12:
(16, 8225), (Start: 20 @8237 has 56 MA's), (111, 8393), (138, 8450), (158, 8507), (159, 8510), (183, 8573), (185, 8579), (195, 8612), (208, 8648), (213, 8666),

Gene: Aoka_12 Start: 8710, Stop: 9090, Start Num: 40
Candidate Starts for Aoka_12:

(Start: 40 @8710 has 30 MA's), (153, 8923), (159, 8935), (186, 9007), (191, 9022),

Gene: AppleCider_14 Start: 10411, Stop: 10824, Start Num: 17
Candidate Starts for AppleCider_14:
(Start: 17 @10411 has 76 MA's), (Start: 49 @10456 has 72 MA's), (120, 10558), (198, 10762),

Gene: Apricot_12 Start: 7390, Stop: 7773, Start Num: 50
Candidate Starts for Apricot_12:
(Start: 50 @7390 has 11 MA's), (88, 7444), (90, 7450), (95, 7462), (104, 7486), (180, 7669), (210, 7759),

Gene: Armstrong_10 Start: 7692, Stop: 8081, Start Num: 41
Candidate Starts for Armstrong_10:
(Start: 41 @7692 has 32 MA's), (131, 7833), (139, 7851), (193, 8004), (195, 8013), (204, 8037), (213, 8067),

Gene: Arroyo_12 Start: 8381, Stop: 8776, Start Num: 37
Candidate Starts for Arroyo_12:
(5, 8255), (Start: 37 @8381 has 52 MA's), (85, 8447), (131, 8525), (167, 8624), (180, 8657), (210, 8750),

Gene: Asa16_12 Start: 9018, Stop: 9428, Start Num: 33
Candidate Starts for Asa16_12:
(Start: 33 @9018 has 96 MA's), (71, 9087), (139, 9225), (144, 9237), (188, 9348), (200, 9381),

Gene: Asapag_12 Start: 7041, Stop: 7451, Start Num: 41
Candidate Starts for Asapag_12:
(6, 6912), (12, 6957), (13, 6963), (14, 6969), (18, 6987), (Start: 41 @7041 has 32 MA's), (53, 7068), (83, 7113), (85, 7119), (110, 7173), (125, 7212), (131, 7218), (141, 7239), (159, 7290), (163, 7302),

Gene: Ascela_12 Start: 9053, Stop: 9463, Start Num: 33
Candidate Starts for Ascela_12:
(Start: 33 @9053 has 96 MA's), (71, 9122), (144, 9272), (188, 9383), (200, 9416),

Gene: Ashes_12 Start: 8547, Stop: 8966, Start Num: 33
Candidate Starts for Ashes_12:
(Start: 33 @8547 has 96 MA's), (54, 8589), (183, 8871),

Gene: Atlantica_11 Start: 7902, Stop: 8342, Start Num: 20
Candidate Starts for Atlantica_11:
(Start: 20 @7902 has 56 MA's), (Start: 47 @7953 has 1 MA's), (109, 8055), (111, 8058), (126, 8094), (131, 8100), (138, 8115), (163, 8187), (175, 8214), (208, 8313), (210, 8319), (213, 8331),

Gene: Audell_16 Start: 11067, Stop: 11459, Start Num: 40
Candidate Starts for Audell_16:
(Start: 40 @11067 has 30 MA's), (78, 11130), (131, 11223), (144, 11253), (162, 11307), (163, 11310), (164, 11313), (178, 11349), (215, 11451),

Gene: AuntGwenStacy_18 Start: 11997, Stop: 12434, Start Num: 25
Candidate Starts for AuntGwenStacy_18:
(Start: 24 @11994 has 3 MA's), (Start: 25 @11997 has 3 MA's), (69, 12075), (78, 12084), (82, 12090), (85, 12096), (121, 12174), (147, 12240), (163, 12276), (192, 12351), (205, 12390),

Gene: AustinPowers_10 Start: 7552, Stop: 7983, Start Num: 19
Candidate Starts for AustinPowers_10:
(Start: 17 @7546 has 76 MA's), (Start: 19 @7552 has 9 MA's), (29, 7573), (78, 7645), (123, 7714), (129, 7723), (141, 7747), (198, 7906),

Gene: AvGardian_11 Start: 7970, Stop: 8365, Start Num: 39
Candidate Starts for AvGardian_11:
(Start: 39 @7970 has 15 MA's), (77, 8033), (131, 8114), (159, 8189), (167, 8213), (180, 8246), (187, 8264), (210, 8339),

Gene: Avani_13 Start: 7213, Stop: 7617, Start Num: 52
Candidate Starts for Avani_13:
(Start: 52 @7213 has 7 MA's), (70, 7246), (98, 7306), (128, 7372), (170, 7492), (177, 7504), (190, 7540), (197, 7570),

Gene: Avocadoman_11 Start: 7969, Stop: 8364, Start Num: 37
Candidate Starts for Avocadoman_11:
(Start: 37 @7969 has 52 MA's), (60, 8008), (85, 8035), (131, 8113), (167, 8212), (180, 8245), (210, 8338),

Gene: Axym_12 Start: 7522, Stop: 7932, Start Num: 49
Candidate Starts for Axym_12:
(Start: 49 @7522 has 72 MA's), (70, 7564), (74, 7570), (95, 7609), (115, 7651), (139, 7705), (159, 7765),

Gene: AylexOG_12 Start: 8256, Stop: 8651, Start Num: 37
Candidate Starts for AylexOG_12:
(5, 8130), (Start: 37 @8256 has 52 MA's), (60, 8295), (85, 8322), (131, 8400), (180, 8532), (210, 8625),

Gene: Azaz_11 Start: 7953, Stop: 8393, Start Num: 20
Candidate Starts for Azaz_11:
(Start: 20 @7953 has 56 MA's), (109, 8106), (111, 8109), (126, 8145), (131, 8151), (138, 8166), (163, 8238), (175, 8265), (208, 8364), (210, 8370), (213, 8382),

Gene: Azira_14 Start: 8446, Stop: 8850, Start Num: 49
Candidate Starts for Azira_14:
(Start: 49 @8446 has 72 MA's), (74, 8494), (116, 8575), (134, 8614), (144, 8641), (160, 8689), (187, 8755),

Gene: B22_12 Start: 7687, Stop: 8055, Start Num: 56
Candidate Starts for B22_12:
(3, 7486), (Start: 56 @7687 has 21 MA's), (88, 7744), (114, 7795), (156, 7906), (160, 7912), (164, 7924),

Gene: BAjuniper_11 Start: 7857, Stop: 8243, Start Num: 41
Candidate Starts for BAjuniper_11:
(2, 7680), (Start: 41 @7857 has 32 MA's), (131, 7995), (138, 8010), (185, 8139), (195, 8175),

Gene: BENtherdunthat_12 Start: 7041, Stop: 7451, Start Num: 41
Candidate Starts for BENtherdunthat_12:
(6, 6912), (12, 6957), (13, 6963), (14, 6969), (18, 6987), (Start: 41 @7041 has 32 MA's), (53, 7068), (83, 7113), (85, 7119), (110, 7173), (125, 7212), (131, 7218), (141, 7239), (159, 7290), (163, 7302),

Gene: Babushka_11 Start: 7950, Stop: 8390, Start Num: 20
Candidate Starts for Babushka_11:
(Start: 20 @7950 has 56 MA's), (109, 8103), (111, 8106), (126, 8142), (131, 8148), (135, 8157), (163, 8235), (175, 8262), (208, 8361), (210, 8367), (213, 8379),

Gene: BabyDaisy_12 Start: 8133, Stop: 8531, Start Num: 37
Candidate Starts for BabyDaisy_12:
(Start: 37 @8133 has 52 MA's), (167, 8379), (202, 8484),

Gene: BabyYoda_11 Start: 8162, Stop: 8557, Start Num: 37
Candidate Starts for BabyYoda_11:
(5, 8036), (Start: 37 @8162 has 52 MA's), (Start: 41 @8165 has 32 MA's), (77, 8225), (173, 8420), (187, 8456), (195, 8489), (202, 8510),

Gene: Bachaco_11 Start: 8051, Stop: 8449, Start Num: 39
Candidate Starts for Bachaco_11:
(1, 7853), (2, 7877), (4, 7913), (Start: 39 @8051 has 15 MA's), (51, 8072), (180, 8330), (187, 8348), (195, 8381),

Gene: BadWillHunting_13 Start: 8497, Stop: 8940, Start Num: 20
Candidate Starts for BadWillHunting_13:
(Start: 20 @8497 has 56 MA's), (65, 8587), (69, 8593), (108, 8647), (109, 8650), (126, 8689), (175, 8809), (183, 8833), (208, 8905), (210, 8911),

Gene: BaileyBlu_11 Start: 6789, Stop: 7178, Start Num: 40
Candidate Starts for BaileyBlu_11:
(Start: 40 @6789 has 30 MA's), (42, 6792), (138, 6951), (164, 7023), (167, 7032),

Gene: Balloona_11 Start: 7288, Stop: 7698, Start Num: 49
Candidate Starts for Balloona_11:
(Start: 49 @7288 has 72 MA's), (74, 7333), (95, 7372), (114, 7411), (119, 7423), (145, 7492), (187, 7597), (210, 7672),

Gene: Barnstormer_10 Start: 8216, Stop: 8632, Start Num: 34
Candidate Starts for Barnstormer_10:
(Start: 34 @8216 has 10 MA's), (150, 8456), (173, 8513),

Gene: Basilisk_12 Start: 8645, Stop: 9088, Start Num: 20
Candidate Starts for Basilisk_12:
(7, 8570), (Start: 20 @8645 has 56 MA's), (Start: 41 @8687 has 32 MA's), (Start: 50 @8705 has 11 MA's), (69, 8741), (108, 8795), (109, 8798), (126, 8837), (146, 8891), (163, 8930), (175, 8957), (183, 8981), (185, 8987),

Gene: Bavilard_12 Start: 8068, Stop: 8478, Start Num: 49
Candidate Starts for Bavilard_12:
(Start: 49 @8068 has 72 MA's), (74, 8113), (95, 8152), (114, 8191), (119, 8203), (145, 8272), (187, 8377), (210, 8452),

Gene: BearBQ_12 Start: 7390, Stop: 7773, Start Num: 50
Candidate Starts for BearBQ_12:
(Start: 50 @7390 has 11 MA's), (88, 7444), (90, 7450), (95, 7462), (104, 7486), (180, 7669), (210, 7759),

Gene: Beaupre_12 Start: 8548, Stop: 8967, Start Num: 33
Candidate Starts for Beaupre_12:
(Start: 33 @8548 has 96 MA's), (54, 8590), (142, 8767), (183, 8872),

Gene: Bedetta_13 Start: 8497, Stop: 8940, Start Num: 20
Candidate Starts for Bedetta_13:
(Start: 20 @8497 has 56 MA's), (65, 8587), (69, 8593), (108, 8647), (109, 8650), (126, 8689), (175, 8809), (183, 8833), (208, 8905), (210, 8911),

Gene: BeeGee_13 Start: 8263, Stop: 8649, Start Num: 56
Candidate Starts for BeeGee_13:
(Start: 19 @8182 has 9 MA's), (Start: 56 @8263 has 21 MA's),

Gene: Beethoven_14 Start: 10371, Stop: 10784, Start Num: 17
Candidate Starts for Beethoven_14:
(Start: 17 @10371 has 76 MA's), (114, 10506), (120, 10521), (141, 10566), (153, 10608), (198, 10725),

Gene: BelmontSKP_12 Start: 8320, Stop: 8715, Start Num: 37
Candidate Starts for BelmontSKP_12:
(5, 8194), (Start: 37 @8320 has 52 MA's), (60, 8359), (85, 8386), (131, 8464), (167, 8563), (180, 8596), (210, 8689),

Gene: Bengal_11 Start: 7911, Stop: 8306, Start Num: 37
Candidate Starts for Bengal_11:
(5, 7785), (Start: 37 @7911 has 52 MA's), (60, 7950), (85, 7977), (167, 8154), (180, 8187), (210, 8280),

Gene: Bennie_10 Start: 7516, Stop: 7926, Start Num: 17
Candidate Starts for Bennie_10:
(Start: 17 @7516 has 76 MA's), (114, 7648), (120, 7663), (141, 7708), (142, 7711), (153, 7750), (198, 7867),

Gene: Bernstein_10 Start: 7752, Stop: 8141, Start Num: 41
Candidate Starts for Bernstein_10:
(Start: 41 @7752 has 32 MA's), (131, 7893), (139, 7911), (193, 8064), (195, 8073), (204, 8097), (213, 8127),

Gene: Berrie_12 Start: 9020, Stop: 9430, Start Num: 33
Candidate Starts for Berrie_12:
(Start: 33 @9020 has 96 MA's), (83, 9107), (144, 9239), (188, 9350), (200, 9383),

Gene: Bibble12_13 Start: 8500, Stop: 8943, Start Num: 20
Candidate Starts for Bibble12_13:
(Start: 20 @8500 has 56 MA's), (65, 8590), (69, 8596), (108, 8650), (109, 8653), (126, 8692), (175, 8812), (183, 8836), (208, 8908), (210, 8914),

Gene: BigChungus_11 Start: 7313, Stop: 7723, Start Num: 49
Candidate Starts for BigChungus_11:
(Start: 49 @7313 has 72 MA's), (74, 7358), (95, 7397), (114, 7436), (119, 7448), (145, 7517), (187, 7622), (210, 7697),

Gene: BigMack_10 Start: 7516, Stop: 7926, Start Num: 17
Candidate Starts for BigMack_10:
(Start: 17 @7516 has 76 MA's), (114, 7648), (120, 7663), (141, 7708), (153, 7750), (198, 7867),

Gene: BillDoor_14 Start: 7499, Stop: 7909, Start Num: 49
Candidate Starts for BillDoor_14:
(Start: 49 @7499 has 72 MA's), (66, 7535), (70, 7541), (74, 7547), (95, 7586), (115, 7628), (139, 7682), (159, 7742),

Gene: Bipper_18 Start: 12080, Stop: 12517, Start Num: 24
Candidate Starts for Bipper_18:
(Start: 24 @12080 has 3 MA's), (Start: 25 @12083 has 3 MA's), (62, 12146), (69, 12158), (78, 12167), (85, 12179), (116, 12239), (142, 12296), (147, 12323), (152, 12332), (164, 12362), (187, 12419), (195, 12449), (205, 12473),

Gene: Birdsong_12 Start: 7390, Stop: 7773, Start Num: 50
Candidate Starts for Birdsong_12:
(Start: 50 @7390 has 11 MA's), (88, 7444), (90, 7450), (95, 7462), (104, 7486), (180, 7669), (210, 7759),

Gene: Biskit_13 Start: 7506, Stop: 7916, Start Num: 49
Candidate Starts for Biskit_13:
(Start: 49 @7506 has 72 MA's), (70, 7548), (74, 7554), (95, 7593), (115, 7635), (139, 7689), (154, 7737), (159, 7749),

Gene: Blarby_14 Start: 7737, Stop: 8141, Start Num: 52
Candidate Starts for Blarby_14:
(Start: 52 @7737 has 7 MA's), (70, 7770), (98, 7830), (128, 7896), (170, 8016), (177, 8028), (190, 8064), (197, 8094),

Gene: Blondies_13 Start: 7492, Stop: 7902, Start Num: 49
Candidate Starts for Blondies_13:
(Start: 49 @7492 has 72 MA's), (70, 7534), (74, 7540), (95, 7579), (115, 7621), (139, 7675), (154, 7723), (159, 7735),

Gene: Bodacious_10 Start: 7514, Stop: 7924, Start Num: 17
Candidate Starts for Bodacious_10:
(Start: 17 @7514 has 76 MA's), (85, 7607), (114, 7646), (120, 7661), (141, 7706), (153, 7748), (162, 7769), (198, 7865),

Gene: BotCity_12 Start: 7039, Stop: 7449, Start Num: 41
Candidate Starts for BotCity_12:
(6, 6910), (12, 6955), (13, 6961), (14, 6967), (18, 6985), (Start: 41 @7039 has 32 MA's), (53, 7066), (83, 7111), (85, 7117), (110, 7171), (125, 7210), (131, 7216), (141, 7237), (159, 7288), (163, 7300),

Gene: Bradissa_13 Start: 8267, Stop: 8653, Start Num: 56
Candidate Starts for Bradissa_13:
(Start: 56 @8267 has 21 MA's), (92, 8324),

Gene: Brahms_10 Start: 7692, Stop: 8081, Start Num: 41
Candidate Starts for Brahms_10:
(Start: 41 @7692 has 32 MA's), (131, 7833), (139, 7851), (193, 8004), (195, 8013), (204, 8037), (213, 8067),

Gene: BrayBeast_11 Start: 7602, Stop: 7979, Start Num: 40
Candidate Starts for BrayBeast_11:

(Start: 40 @7602 has 30 MA's), (76, 7659), (116, 7716), (125, 7743), (136, 7764), (139, 7770), (178, 7872), (191, 7908), (202, 7941),

Gene: BritBrat_13 Start: 8269, Stop: 8655, Start Num: 56
Candidate Starts for BritBrat_13:
(Start: 56 @8269 has 21 MA's), (92, 8326),

Gene: BrotherBLo_14 Start: 10378, Stop: 10791, Start Num: 17
Candidate Starts for BrotherBLo_14:
(Start: 17 @10378 has 76 MA's), (114, 10513), (120, 10528), (141, 10573), (153, 10615), (198, 10732),

Gene: Brynnie_12 Start: 8457, Stop: 8900, Start Num: 20
Candidate Starts for Brynnie_12:
(Start: 20 @8457 has 56 MA's), (Start: 41 @8499 has 32 MA's), (69, 8553), (108, 8607), (109, 8610), (126, 8649), (146, 8703), (163, 8742), (175, 8769), (183, 8793), (185, 8799),

Gene: BubbaBear_11 Start: 7905, Stop: 8300, Start Num: 37
Candidate Starts for BubbaBear_11:
(Start: 37 @7905 has 52 MA's), (60, 7944), (131, 8049), (167, 8148), (180, 8181), (210, 8274),

Gene: Bubble_12 Start: 7522, Stop: 7932, Start Num: 49
Candidate Starts for Bubble_12:
(Start: 49 @7522 has 72 MA's), (70, 7564), (74, 7570), (95, 7609), (115, 7651), (139, 7705), (159, 7765),

Gene: Budski_12 Start: 7046, Stop: 7438, Start Num: 41
Candidate Starts for Budski_12:
(6, 6917), (12, 6962), (13, 6968), (14, 6974), (18, 6992), (23, 7010), (Start: 41 @7046 has 32 MA's), (53, 7073), (83, 7118), (85, 7124), (90, 7136), (110, 7160), (125, 7199), (131, 7205), (138, 7220), (141, 7226), (159, 7277), (163, 7289), (187, 7343),

Gene: Buldak_11 Start: 8189, Stop: 8584, Start Num: 33
Candidate Starts for Buldak_11:
(Start: 33 @8189 has 96 MA's), (117, 8306), (129, 8333), (131, 8336), (160, 8414), (174, 8450), (178, 8459), (195, 8516), (204, 8540),

Gene: Burnsey_12 Start: 7523, Stop: 7933, Start Num: 49
Candidate Starts for Burnsey_12:
(Start: 49 @7523 has 72 MA's), (68, 7562), (70, 7565), (74, 7571), (95, 7610), (115, 7652), (139, 7706), (159, 7766),

Gene: Burritobowl_11 Start: 7938, Stop: 8333, Start Num: 37
Candidate Starts for Burritobowl_11:
(5, 7812), (Start: 37 @7938 has 52 MA's), (60, 7977), (85, 8004), (131, 8082), (167, 8181), (180, 8214), (210, 8307),

Gene: Button_13 Start: 7530, Stop: 7934, Start Num: 49
Candidate Starts for Button_13:
(Start: 49 @7530 has 72 MA's), (70, 7572), (95, 7620), (101, 7641), (154, 7764), (172, 7809),

Gene: Buttrmlkdreams_12 Start: 7491, Stop: 7901, Start Num: 49
Candidate Starts for Buttrmlkdreams_12:

(Start: 49 @7491 has 72 MA's), (70, 7533), (74, 7539), (95, 7578), (115, 7620), (139, 7674), (154, 7722), (159, 7734),

Gene: Cafasso_12 Start: 8416, Stop: 8820, Start Num: 33
Candidate Starts for Cafasso_12:
(Start: 33 @8416 has 96 MA's), (72, 8485), (141, 8620), (159, 8665), (199, 8779), (208, 8800),

Gene: CallieOMalley_14 Start: 10411, Stop: 10824, Start Num: 17
Candidate Starts for CallieOMalley_14:
(Start: 17 @10411 has 76 MA's), (Start: 49 @10456 has 72 MA's), (120, 10558), (198, 10762),

Gene: CallinAllBarbz_11 Start: 6799, Stop: 7188, Start Num: 40
Candidate Starts for CallinAllBarbz_11:
(Start: 40 @6799 has 30 MA's), (42, 6802), (138, 6961), (167, 7042), (179, 7069),

Gene: Camara_11 Start: 7903, Stop: 8343, Start Num: 20
Candidate Starts for Camara_11:
(Start: 20 @7903 has 56 MA's), (Start: 47 @7954 has 1 MA's), (109, 8056), (111, 8059), (126, 8095), (131, 8101), (138, 8116), (163, 8188), (175, 8215), (208, 8314), (210, 8320), (213, 8332),

Gene: CanFranMach_11 Start: 7928, Stop: 8323, Start Num: 37
Candidate Starts for CanFranMach_11:
(Start: 37 @7928 has 52 MA's), (85, 7994), (131, 8072), (159, 8147), (180, 8204), (210, 8297),

Gene: CanesSauce_12 Start: 7535, Stop: 7945, Start Num: 49
Candidate Starts for CanesSauce_12:
(Start: 49 @7535 has 72 MA's), (66, 7571), (70, 7577), (74, 7583), (95, 7622), (115, 7664), (139, 7718), (159, 7778),

Gene: Canowicakte_14 Start: 10446, Stop: 10859, Start Num: 17
Candidate Starts for Canowicakte_14:
(Start: 17 @10446 has 76 MA's), (Start: 49 @10491 has 72 MA's), (120, 10593), (162, 10701), (198, 10797),

Gene: Cappuccino_12 Start: 8456, Stop: 8875, Start Num: 33
Candidate Starts for Cappuccino_12:
(Start: 33 @8456 has 96 MA's), (54, 8498), (183, 8780),

Gene: CaramelLatte_12 Start: 7535, Stop: 7945, Start Num: 49
Candidate Starts for CaramelLatte_12:
(Start: 49 @7535 has 72 MA's), (66, 7571), (70, 7577), (74, 7583), (95, 7622), (115, 7664), (139, 7718), (159, 7778),

Gene: CardboardBox_13 Start: 7727, Stop: 8119, Start Num: 40
Candidate Starts for CardboardBox_13:
(Start: 40 @7727 has 30 MA's), (102, 7826), (105, 7829), (129, 7880), (131, 7883), (163, 7970), (164, 7973), (207, 8087), (215, 8111),

Gene: Caron_10 Start: 8244, Stop: 8660, Start Num: 34
Candidate Starts for Caron_10:
(Start: 34 @8244 has 10 MA's), (150, 8484),

Gene: Carpal_14 Start: 10378, Stop: 10791, Start Num: 17

Candidate Starts for Carpal_14:
(Start: 17 @10378 has 76 MA's), (114, 10513), (120, 10528), (141, 10573), (153, 10615), (198, 10732),

Gene: Carsonalex_13 Start: 7579, Stop: 7989, Start Num: 49
Candidate Starts for Carsonalex_13:
(Start: 49 @7579 has 72 MA's), (70, 7621), (74, 7627), (95, 7666), (115, 7708), (139, 7762), (159, 7822),

Gene: Cashington_11 Start: 7928, Stop: 8323, Start Num: 37
Candidate Starts for Cashington_11:
(5, 7802), (Start: 37 @7928 has 52 MA's), (60, 7967), (85, 7994), (131, 8072), (167, 8171), (180, 8204), (210, 8297),

Gene: Cashline_13 Start: 8116, Stop: 8508, Start Num: 56
Candidate Starts for Cashline_13:
(Start: 19 @8035 has 9 MA's), (Start: 56 @8116 has 21 MA's),

Gene: Cassia_12 Start: 9139, Stop: 9552, Start Num: 33
Candidate Starts for Cassia_12:
(Start: 33 @9139 has 96 MA's), (83, 9226), (139, 9346), (144, 9358), (188, 9469), (200, 9502),

Gene: Celaena_11 Start: 7988, Stop: 8386, Start Num: 39
Candidate Starts for Celaena_11:
(4, 7850), (21, 7952), (27, 7970), (Start: 39 @7988 has 15 MA's), (51, 8009), (180, 8267), (187, 8285), (195, 8318),

Gene: Cen1621_10 Start: 7355, Stop: 7771, Start Num: 33
Candidate Starts for Cen1621_10:
(Start: 33 @7355 has 96 MA's), (200, 7724), (208, 7745),

Gene: ChamoyPickle_13 Start: 7727, Stop: 8119, Start Num: 40
Candidate Starts for ChamoyPickle_13:
(Start: 40 @7727 has 30 MA's), (102, 7826), (105, 7829), (129, 7880), (131, 7883), (163, 7970), (164, 7973), (207, 8087), (215, 8111),

Gene: Che9d_13 Start: 7222, Stop: 7626, Start Num: 52
Candidate Starts for Che9d_13:
(Start: 52 @7222 has 7 MA's), (70, 7255), (98, 7315), (128, 7381), (170, 7501), (177, 7513), (190, 7549), (197, 7579),

Gene: CheeseTouch_12 Start: 7046, Stop: 7438, Start Num: 41
Candidate Starts for CheeseTouch_12:
(6, 6917), (12, 6962), (13, 6968), (14, 6974), (18, 6992), (23, 7010), (Start: 41 @7046 has 32 MA's), (53, 7073), (83, 7118), (85, 7124), (90, 7136), (110, 7160), (125, 7199), (131, 7205), (138, 7220), (141, 7226), (159, 7277), (163, 7289), (187, 7343),

Gene: CherryonLim_13 Start: 8039, Stop: 8449, Start Num: 49
Candidate Starts for CherryonLim_13:
(Start: 49 @8039 has 72 MA's), (74, 8084), (95, 8123), (114, 8162), (119, 8174), (145, 8243), (187, 8348), (210, 8423),

Gene: ChewChew_10 Start: 7513, Stop: 7923, Start Num: 17
Candidate Starts for ChewChew_10:

(Start: 17 @7513 has 76 MA's), (85, 7606), (114, 7645), (120, 7660), (141, 7705), (153, 7747), (162, 7768), (198, 7864),

Gene: Chickaboom_11 Start: 8002, Stop: 8445, Start Num: 20
Candidate Starts for Chickaboom_11:
(Start: 20 @8002 has 56 MA's), (Start: 41 @8044 has 32 MA's), (Start: 50 @8062 has 11 MA's), (69, 8098), (108, 8152), (109, 8155), (126, 8194), (146, 8248), (163, 8287), (175, 8314), (183, 8338), (185, 8344),

Gene: Chicken_12 Start: 8281, Stop: 8721, Start Num: 20
Candidate Starts for Chicken_12:
(Start: 20 @8281 has 56 MA's), (65, 8371), (69, 8377), (93, 8413), (108, 8431), (109, 8434), (126, 8473), (163, 8566), (175, 8593), (183, 8617), (195, 8653), (208, 8689),

Gene: ChickenTender_14 Start: 7565, Stop: 7975, Start Num: 49
Candidate Starts for ChickenTender_14:
(Start: 49 @7565 has 72 MA's), (70, 7607), (74, 7613), (95, 7652), (115, 7694), (135, 7739), (139, 7748), (159, 7808),

Gene: ChiliPepper_11 Start: 8141, Stop: 8542, Start Num: 39
Candidate Starts for ChiliPepper_11:
(Start: 39 @8141 has 15 MA's), (131, 8291), (173, 8405), (195, 8474),

Gene: ChipsNGuac_13 Start: 7727, Stop: 8119, Start Num: 40
Candidate Starts for ChipsNGuac_13:
(Start: 40 @7727 has 30 MA's), (102, 7826), (105, 7829), (129, 7880), (131, 7883), (163, 7970), (164, 7973), (207, 8087), (215, 8111),

Gene: ChocoMunchkin_12 Start: 7535, Stop: 7945, Start Num: 49
Candidate Starts for ChocoMunchkin_12:
(Start: 49 @7535 has 72 MA's), (66, 7571), (70, 7577), (74, 7583), (95, 7622), (115, 7664), (139, 7718), (159, 7778),

Gene: Cholula_14 Start: 10423, Stop: 10836, Start Num: 17
Candidate Starts for Cholula_14:
(Start: 17 @10423 has 76 MA's), (114, 10558), (120, 10573), (141, 10618), (153, 10660), (198, 10777),

Gene: Chridison_10 Start: 7546, Stop: 7983, Start Num: 17
Candidate Starts for Chridison_10:
(Start: 17 @7546 has 76 MA's), (Start: 19 @7552 has 9 MA's), (29, 7573), (78, 7645), (123, 7714), (129, 7723), (141, 7747), (198, 7906),

Gene: Christian_10 Start: 7514, Stop: 7924, Start Num: 17
Candidate Starts for Christian_10:
(Start: 17 @7514 has 76 MA's), (85, 7607), (114, 7646), (120, 7661), (141, 7706), (153, 7748), (162, 7769), (198, 7865),

Gene: Clayda5_10 Start: 7692, Stop: 8081, Start Num: 41
Candidate Starts for Clayda5_10:
(Start: 41 @7692 has 32 MA's), (131, 7833), (139, 7851), (193, 8004), (195, 8013), (204, 8037), (213, 8067),

Gene: Cleo_12 Start: 7746, Stop: 8144, Start Num: 49

Candidate Starts for Cleo_12:
(Start: 49 @7746 has 72 MA's), (74, 7794), (95, 7830), (116, 7875), (120, 7884), (134, 7914), (144, 7941), (145, 7950), (149, 7962), (160, 7989), (187, 8055), (195, 8088),

Gene: CliffHanger_12 Start: 7883, Stop: 8278, Start Num: 35
Candidate Starts for CliffHanger_12:
(Start: 35 @7883 has 7 MA's), (121, 8015), (159, 8105), (178, 8153), (187, 8177), (204, 8234),

Gene: CocoCinnamon_15 Start: 8936, Stop: 9316, Start Num: 40
Candidate Starts for CocoCinnamon_15:
(Start: 40 @8936 has 30 MA's), (136, 9101), (139, 9107), (176, 9203), (178, 9209), (191, 9245), (202, 9278),

Gene: CocoaPuff_11 Start: 7288, Stop: 7698, Start Num: 49
Candidate Starts for CocoaPuff_11:
(Start: 49 @7288 has 72 MA's), (74, 7333), (95, 7372), (114, 7411), (119, 7423), (145, 7492), (187, 7597), (210, 7672),

Gene: Colossa_13 Start: 8295, Stop: 8690, Start Num: 31
Candidate Starts for Colossa_13:
(Start: 31 @8295 has 2 MA's), (54, 8331), (68, 8355), (76, 8361), (90, 8382), (108, 8406), (163, 8538), (189, 8610), (199, 8640),

Gene: Coltrane_10 Start: 7692, Stop: 8081, Start Num: 41
Candidate Starts for Coltrane_10:
(Start: 41 @7692 has 32 MA's), (131, 7833), (139, 7851), (193, 8004), (195, 8013), (204, 8037), (213, 8067),

Gene: Colusalem_12 Start: 8336, Stop: 8779, Start Num: 20
Candidate Starts for Colusalem_12:
(Start: 20 @8336 has 56 MA's), (65, 8426), (69, 8432), (108, 8486), (109, 8489), (126, 8528), (175, 8648), (183, 8672), (208, 8744), (210, 8750),

Gene: Community_13 Start: 10099, Stop: 10509, Start Num: 33
Candidate Starts for Community_13:
(Start: 33 @10099 has 96 MA's), (57, 10144), (144, 10318), (188, 10429), (200, 10462),

Gene: Confidence_13 Start: 8263, Stop: 8649, Start Num: 56
Candidate Starts for Confidence_13:
(Start: 19 @8182 has 9 MA's), (Start: 56 @8263 has 21 MA's), (80, 8299), (92, 8320),

Gene: Coral_12 Start: 8336, Stop: 8779, Start Num: 20
Candidate Starts for Coral_12:
(Start: 20 @8336 has 56 MA's), (65, 8426), (69, 8432), (108, 8486), (109, 8489), (126, 8528), (175, 8648), (183, 8672), (208, 8744), (210, 8750),

Gene: Cote_13 Start: 8497, Stop: 8940, Start Num: 20
Candidate Starts for Cote_13:
(Start: 20 @8497 has 56 MA's), (65, 8587), (69, 8593), (108, 8647), (109, 8650), (126, 8689), (175, 8809), (183, 8833), (208, 8905), (210, 8911),

Gene: Cozz_12 Start: 7523, Stop: 7933, Start Num: 49
Candidate Starts for Cozz_12:

(Start: 49 @7523 has 72 MA's), (70, 7565), (74, 7571), (95, 7610), (115, 7652), (139, 7706), (159, 7766),

Gene: Cracklewink_18 Start: 12080, Stop: 12517, Start Num: 24
Candidate Starts for Cracklewink_18:
(Start: 24 @12080 has 3 MA's), (Start: 25 @12083 has 3 MA's), (62, 12146), (69, 12158), (78, 12167), (85, 12179), (116, 12239), (142, 12296), (147, 12323), (152, 12332), (164, 12362), (187, 12419), (195, 12449), (205, 12473),

Gene: Crater_12 Start: 7390, Stop: 7773, Start Num: 50
Candidate Starts for Crater_12:
(Start: 50 @7390 has 11 MA's), (88, 7444), (90, 7450), (95, 7462), (104, 7486), (180, 7669), (210, 7759),

Gene: Crewmate_13 Start: 9485, Stop: 9898, Start Num: 33
Candidate Starts for Crewmate_13:
(Start: 33 @9485 has 96 MA's), (71, 9554), (144, 9704), (188, 9815), (200, 9848),

Gene: CristinaYang_10 Start: 7514, Stop: 7924, Start Num: 17
Candidate Starts for CristinaYang_10:
(Start: 17 @7514 has 76 MA's), (85, 7607), (114, 7646), (120, 7661), (141, 7706), (153, 7748), (162, 7769), (198, 7865),

Gene: CroZenni_11 Start: 7911, Stop: 8306, Start Num: 37
Candidate Starts for CroZenni_11:
(5, 7785), (Start: 37 @7911 has 52 MA's), (85, 7977), (131, 8055), (167, 8154), (180, 8187), (210, 8280),

Gene: CupcakePrincess_11 Start: 7951, Stop: 8346, Start Num: 37
Candidate Starts for CupcakePrincess_11:
(5, 7825), (Start: 37 @7951 has 52 MA's), (60, 7990), (85, 8017), (131, 8095), (180, 8227), (210, 8320),

Gene: Cyan_12 Start: 9040, Stop: 9453, Start Num: 33
Candidate Starts for Cyan_12:
(Start: 33 @9040 has 96 MA's), (71, 9109), (144, 9259), (188, 9370), (200, 9403),

Gene: Cygnet_12 Start: 8279, Stop: 8722, Start Num: 20
Candidate Starts for Cygnet_12:
(Start: 20 @8279 has 56 MA's), (Start: 50 @8339 has 11 MA's), (53, 8348), (71, 8378), (108, 8429), (138, 8492), (153, 8540), (158, 8549), (159, 8552), (183, 8615), (187, 8624), (195, 8654), (208, 8690), (213, 8708),

Gene: DS6A_15 Start: 10364, Stop: 10735, Start Num: 49
Candidate Starts for DS6A_15:
(Start: 49 @10364 has 72 MA's), (85, 10427), (90, 10439), (112, 10466), (129, 10511), (139, 10532), (159, 10586), (164, 10601), (180, 10628), (185, 10643), (192, 10664), (198, 10688),

Gene: Daiboju_10 Start: 7547, Stop: 7984, Start Num: 17
Candidate Starts for Daiboju_10:
(Start: 17 @7547 has 76 MA's), (Start: 19 @7553 has 9 MA's), (46, 7592), (48, 7595), (114, 7688), (120, 7703), (123, 7715), (129, 7724), (131, 7727), (141, 7748), (198, 7907),

Gene: Damocles_13 Start: 8497, Stop: 8940, Start Num: 20

Candidate Starts for Damocles_13:
(Start: 20 @8497 has 56 MA's), (65, 8587), (69, 8593), (108, 8647), (109, 8650), (126, 8689), (175, 8809), (183, 8833), (208, 8905), (210, 8911),

Gene: DanHam62_11 Start: 7902, Stop: 8342, Start Num: 20
Candidate Starts for DanHam62_11:
(Start: 20 @7902 has 56 MA's), (Start: 47 @7953 has 1 MA's), (109, 8055), (111, 8058), (126, 8094), (131, 8100), (138, 8115), (163, 8187), (175, 8214), (208, 8313), (210, 8319), (213, 8331),

Gene: Daob_13 Start: 8500, Stop: 8943, Start Num: 20
Candidate Starts for Daob_13:
(Start: 20 @8500 has 56 MA's), (65, 8590), (69, 8596), (108, 8650), (109, 8653), (126, 8692), (175, 8812), (183, 8836), (208, 8908), (210, 8914),

Gene: Demsculpinboyz_13 Start: 7213, Stop: 7617, Start Num: 52
Candidate Starts for Demsculpinboyz_13:
(Start: 52 @7213 has 7 MA's), (70, 7246), (98, 7306), (128, 7372), (170, 7492), (177, 7504), (190, 7540), (197, 7570),

Gene: DickRichards_11 Start: 8405, Stop: 8800, Start Num: 37
Candidate Starts for DickRichards_11:
(5, 8279), (Start: 37 @8405 has 52 MA's), (60, 8444), (85, 8471), (131, 8549), (167, 8648), (180, 8681), (210, 8774),

Gene: Didgeridoo_12 Start: 8135, Stop: 8533, Start Num: 39
Candidate Starts for Didgeridoo_12:
(Start: 39 @8135 has 15 MA's), (167, 8381), (202, 8486),

Gene: Dino_14 Start: 10377, Stop: 10790, Start Num: 17
Candidate Starts for Dino_14:
(Start: 17 @10377 has 76 MA's), (114, 10512), (120, 10527), (141, 10572), (153, 10614), (198, 10731),

Gene: DirtyBubble_11 Start: 8173, Stop: 8565, Start Num: 41
Candidate Starts for DirtyBubble_11:
(5, 8044), (Start: 37 @8170 has 52 MA's), (Start: 41 @8173 has 32 MA's), (77, 8233), (173, 8428), (187, 8464), (195, 8497), (202, 8518),

Gene: Dismas_11 Start: 8141, Stop: 8542, Start Num: 39
Candidate Starts for Dismas_11:
(Start: 39 @8141 has 15 MA's), (131, 8291), (173, 8405), (195, 8474),

Gene: Donkey_12 Start: 8456, Stop: 8875, Start Num: 33
Candidate Starts for Donkey_12:
(Start: 33 @8456 has 96 MA's), (54, 8498), (183, 8780),

Gene: Doobus_11 Start: 8142, Stop: 8537, Start Num: 37
Candidate Starts for Doobus_11:
(5, 8016), (Start: 37 @8142 has 52 MA's), (85, 8208), (131, 8286), (167, 8385), (180, 8418), (210, 8511),

Gene: Doucette_12 Start: 7747, Stop: 8115, Start Num: 56
Candidate Starts for Doucette_12:

(3, 7546), (Start: 56 @7747 has 21 MA's), (88, 7804), (114, 7855), (156, 7966), (160, 7972), (164, 7984),

Gene: DrManhattan_12 Start: 9014, Stop: 9430, Start Num: 33
Candidate Starts for DrManhattan_12:
(Start: 33 @9014 has 96 MA's), (142, 9230),

Gene: DrRobert_10 Start: 7514, Stop: 7924, Start Num: 17
Candidate Starts for DrRobert_10:
(Start: 17 @7514 has 76 MA's), (85, 7607), (114, 7646), (120, 7661), (141, 7706), (153, 7748), (162, 7769), (198, 7865),

Gene: DrSierra_12 Start: 9047, Stop: 9463, Start Num: 33
Candidate Starts for DrSierra_12:
(Start: 33 @9047 has 96 MA's), (88, 9143), (114, 9200), (142, 9263),

Gene: Dre3_12 Start: 7693, Stop: 8091, Start Num: 49
Candidate Starts for Dre3_12:
(Start: 49 @7693 has 72 MA's), (74, 7741), (95, 7777), (116, 7822), (120, 7831), (134, 7861), (144, 7888), (145, 7897), (149, 7909), (160, 7936), (187, 8002), (195, 8035),

Gene: DreamTeam_10 Start: 7581, Stop: 7991, Start Num: 17
Candidate Starts for DreamTeam_10:
(Start: 17 @7581 has 76 MA's), (114, 7713), (120, 7728), (141, 7773), (142, 7776), (198, 7932),

Gene: E6_13 Start: 7798, Stop: 8166, Start Num: 56
Candidate Starts for E6_13:
(3, 7597), (Start: 56 @7798 has 21 MA's), (88, 7855), (114, 7906), (156, 8017), (160, 8023), (164, 8035), (171, 8056),

Gene: EMsquaredA_13 Start: 8269, Stop: 8655, Start Num: 56
Candidate Starts for EMsquaredA_13:
(Start: 56 @8269 has 21 MA's), (92, 8326),

Gene: Ecliptus_12 Start: 7118, Stop: 7501, Start Num: 50
Candidate Starts for Ecliptus_12:
(Start: 50 @7118 has 11 MA's), (61, 7133), (88, 7172), (90, 7178), (95, 7190), (104, 7214), (180, 7397), (210, 7487),

Gene: Eden_10 Start: 7777, Stop: 8181, Start Num: 35
Candidate Starts for Eden_10:
(Start: 35 @7777 has 7 MA's), (Start: 41 @7783 has 32 MA's), (131, 7933), (139, 7951), (160, 8011), (175, 8047), (195, 8113),

Gene: Eesa_12 Start: 8495, Stop: 8935, Start Num: 20
Candidate Starts for Eesa_12:
(16, 8483), (Start: 20 @8495 has 56 MA's), (65, 8585), (69, 8591), (93, 8627), (108, 8645), (109, 8648), (126, 8687), (163, 8780), (175, 8807), (183, 8831), (195, 8867), (208, 8903),

Gene: ElJefes_11 Start: 7765, Stop: 8175, Start Num: 49
Candidate Starts for ElJefes_11:
(Start: 49 @7765 has 72 MA's), (74, 7810), (95, 7849), (114, 7888), (119, 7900), (145, 7969), (187, 8074), (210, 8149),

Gene: Elezi_12 Start: 9019, Stop: 9429, Start Num: 33
Candidate Starts for Elezi_12:
(Start: 33 @9019 has 96 MA's), (71, 9088), (139, 9226), (144, 9238), (188, 9349), (200, 9382),

Gene: Elfy_10 Start: 6715, Stop: 7113, Start Num: 34
Candidate Starts for Elfy_10:
(23, 6688), (27, 6700), (Start: 34 @6715 has 10 MA's), (Start: 50 @6742 has 11 MA's), (85, 6796), (106, 6823), (120, 6850), (132, 6877), (138, 6889), (164, 6961), (175, 6985), (183, 7009),

Gene: Elinal_13 Start: 7294, Stop: 7704, Start Num: 49
Candidate Starts for Elinal_13:
(Start: 49 @7294 has 72 MA's), (74, 7339), (95, 7378), (114, 7417), (119, 7429), (145, 7498), (187, 7603), (210, 7678),

Gene: Eliott_12 Start: 7522, Stop: 7932, Start Num: 49
Candidate Starts for Eliott_12:
(Start: 49 @7522 has 72 MA's), (70, 7564), (74, 7570), (95, 7609), (115, 7651), (139, 7705), (159, 7765),

Gene: Elva_12 Start: 8225, Stop: 8620, Start Num: 37
Candidate Starts for Elva_12:
(5, 8099), (Start: 37 @8225 has 52 MA's), (131, 8369), (173, 8483), (187, 8519), (195, 8552), (202, 8573),

Gene: Emalyn_11 Start: 7242, Stop: 7652, Start Num: 49
Candidate Starts for Emalyn_11:
(Start: 49 @7242 has 72 MA's), (70, 7284), (74, 7290), (95, 7329), (115, 7371), (139, 7425), (154, 7473),

Gene: Emotion_11 Start: 7354, Stop: 7758, Start Num: 34
Candidate Starts for Emotion_11:
(Start: 34 @7354 has 10 MA's), (139, 7555),

Gene: EnalisNailo_13 Start: 8269, Stop: 8655, Start Num: 56
Candidate Starts for EnalisNailo_13:
(Start: 56 @8269 has 21 MA's), (92, 8326),

Gene: Eraser_12 Start: 9019, Stop: 9429, Start Num: 33
Candidate Starts for Eraser_12:
(Start: 33 @9019 has 96 MA's), (71, 9088), (139, 9226), (144, 9238), (188, 9349), (200, 9382),

Gene: EstebanJulior_10 Start: 7558, Stop: 7971, Start Num: 17
Candidate Starts for EstebanJulior_10:
(Start: 17 @7558 has 76 MA's), (57, 7621), (120, 7705), (141, 7750), (142, 7753), (153, 7792), (181, 7852), (198, 7909),

Gene: Eula_11 Start: 7912, Stop: 8307, Start Num: 37
Candidate Starts for Eula_11:
(Start: 37 @7912 has 52 MA's), (60, 7951), (85, 7978), (119, 8029), (131, 8056), (180, 8188), (210, 8281),

Gene: Eunoia_10 Start: 7551, Stop: 7982, Start Num: 19

Candidate Starts for Eunoia_10:
(Start: 17 @7545 has 76 MA's), (Start: 19 @7551 has 9 MA's), (29, 7572), (78, 7644), (120, 7701), (123, 7713), (129, 7722), (141, 7746), (198, 7905),

Gene: EvenBluerMoon_12 Start: 8744, Stop: 9133, Start Num: 40
Candidate Starts for EvenBluerMoon_12:
(Start: 40 @8744 has 30 MA's), (125, 8891), (153, 8957), (159, 8969),

Gene: Exile_11 Start: 8927, Stop: 9337, Start Num: 34
Candidate Starts for Exile_11:
(Start: 34 @8927 has 10 MA's), (200, 9290),

Gene: Ezurina_12 Start: 7295, Stop: 7687, Start Num: 40
Candidate Starts for Ezurina_12:
(Start: 40 @7295 has 30 MA's), (51, 7316), (105, 7397), (129, 7448), (131, 7451), (163, 7538), (164, 7541), (207, 7655), (215, 7679),

Gene: Faiyaz_18 Start: 11997, Stop: 12434, Start Num: 25
Candidate Starts for Faiyaz_18:
(Start: 24 @11994 has 3 MA's), (Start: 25 @11997 has 3 MA's), (69, 12075), (78, 12084), (82, 12090), (85, 12096), (121, 12174), (147, 12240), (163, 12276), (192, 12351), (205, 12390),

Gene: Feastonyeet_11 Start: 7313, Stop: 7723, Start Num: 49
Candidate Starts for Feastonyeet_11:
(Start: 49 @7313 has 72 MA's), (74, 7358), (95, 7397), (114, 7436), (119, 7448), (145, 7517), (187, 7622), (210, 7697),

Gene: Finalfrontier_12 Start: 8424, Stop: 8819, Start Num: 37
Candidate Starts for Finalfrontier_12:
(Start: 37 @8424 has 52 MA's), (60, 8463), (85, 8490), (131, 8568), (180, 8700), (210, 8793),

Gene: Fingolfin_11 Start: 7903, Stop: 8343, Start Num: 20
Candidate Starts for Fingolfin_11:
(Start: 20 @7903 has 56 MA's), (Start: 47 @7954 has 1 MA's), (109, 8056), (111, 8059), (126, 8095), (131, 8101), (138, 8116), (163, 8188), (175, 8215), (208, 8314), (210, 8320), (213, 8332),

Gene: FiveHead_11 Start: 7283, Stop: 7678, Start Num: 33
Candidate Starts for FiveHead_11:
(Start: 33 @7283 has 96 MA's), (139, 7475),

Gene: FlameThrower_11 Start: 7876, Stop: 8274, Start Num: 39
Candidate Starts for FlameThrower_11:
(1, 7678), (Start: 39 @7876 has 15 MA's), (51, 7897), (180, 8155), (187, 8173), (195, 8206),

Gene: Floof_11 Start: 7791, Stop: 8213, Start Num: 33
Candidate Starts for Floof_11:
(Start: 33 @7791 has 96 MA's), (90, 7884), (93, 7890), (97, 7905), (139, 7995), (150, 8034), (159, 8052), (204, 8163),

Gene: Floral_13 Start: 8269, Stop: 8655, Start Num: 56
Candidate Starts for Floral_13:
(Start: 56 @8269 has 21 MA's), (92, 8326),

Gene: Fluke_14 Start: 10419, Stop: 10832, Start Num: 17
Candidate Starts for Fluke_14:
(Start: 17 @10419 has 76 MA's), (114, 10554), (141, 10614), (153, 10656), (198, 10773),

Gene: Flutur_12 Start: 9039, Stop: 9452, Start Num: 33
Candidate Starts for Flutur_12:
(Start: 33 @9039 has 96 MA's), (71, 9108), (188, 9369), (200, 9402),

Gene: Forester_11 Start: 9343, Stop: 9765, Start Num: 33
Candidate Starts for Forester_11:
(Start: 33 @9343 has 96 MA's), (90, 9436), (93, 9442), (97, 9457), (139, 9547), (150, 9586), (159, 9604), (204, 9715),

Gene: Franklin22_10 Start: 7758, Stop: 8153, Start Num: 35
Candidate Starts for Franklin22_10:
(Start: 35 @7758 has 7 MA's), (Start: 41 @7764 has 32 MA's), (131, 7905), (139, 7923), (195, 8085),

Gene: Fribs8_13 Start: 8259, Stop: 8663, Start Num: 49
Candidate Starts for Fribs8_13:
(Start: 49 @8259 has 72 MA's), (74, 8307), (116, 8388), (134, 8427), (144, 8454), (160, 8502), (163, 8511), (187, 8568),

Gene: Frickyeah_12 Start: 7041, Stop: 7451, Start Num: 41
Candidate Starts for Frickyeah_12:
(6, 6912), (12, 6957), (13, 6963), (14, 6969), (18, 6987), (Start: 41 @7041 has 32 MA's), (53, 7068), (83, 7113), (85, 7119), (110, 7173), (125, 7212), (131, 7218), (141, 7239), (159, 7290), (163, 7302),

Gene: Fryberger_44 Start: 16578, Stop: 16958, Start Num: 22
Candidate Starts for Fryberger_44:
(Start: 22 @16578 has 6 MA's), (Start: 41 @16617 has 32 MA's), (Start: 52 @16641 has 7 MA's), (91, 16698), (116, 16755), (137, 16803), (154, 16857), (161, 16872),

Gene: G4_12 Start: 7735, Stop: 8103, Start Num: 56
Candidate Starts for G4_12:
(3, 7534), (Start: 56 @7735 has 21 MA's), (88, 7792), (156, 7954), (160, 7960), (164, 7972), (177, 7996),

Gene: GTE2_10 Start: 7243, Stop: 7605, Start Num: 74
Candidate Starts for GTE2_10:
(Start: 49 @7195 has 72 MA's), (66, 7231), (70, 7237), (74, 7243), (95, 7282), (115, 7324), (139, 7378), (154, 7426), (159, 7438),

Gene: Gack_10 Start: 7830, Stop: 8219, Start Num: 41
Candidate Starts for Gack_10:
(Start: 41 @7830 has 32 MA's), (103, 7917), (131, 7971), (138, 7986), (168, 8076), (187, 8118), (195, 8151),

Gene: Gaia_9 Start: 7642, Stop: 8013, Start Num: 49
Candidate Starts for Gaia_9:
(Start: 49 @7642 has 72 MA's), (107, 7738), (116, 7759), (125, 7786), (127, 7789), (131, 7792), (138, 7807), (159, 7864), (163, 7876), (184, 7921), (204, 7981), (207, 7987), (208, 7993),

Gene: Galaxy_12 Start: 8328, Stop: 8771, Start Num: 20

Candidate Starts for Galaxy_12:
(Start: 20 @8328 has 56 MA's), (69, 8424), (108, 8478), (109, 8481), (123, 8514), (163, 8613), (175, 8640), (183, 8664), (185, 8670), (188, 8679),

Gene: Gambol_12 Start: 8456, Stop: 8875, Start Num: 33
Candidate Starts for Gambol_12:
(Start: 33 @8456 has 96 MA's), (54, 8498), (183, 8780),

Gene: GardenState_11 Start: 8458, Stop: 8877, Start Num: 33
Candidate Starts for GardenState_11:
(Start: 33 @8458 has 96 MA's), (90, 8551), (93, 8557), (139, 8662), (150, 8701),

Gene: Gerri43_13 Start: 7727, Stop: 8119, Start Num: 40
Candidate Starts for Gerri43_13:
(Start: 40 @7727 has 30 MA's), (102, 7826), (105, 7829), (129, 7880), (131, 7883), (163, 7970), (164, 7973), (207, 8087), (215, 8111),

Gene: Getalong_12 Start: 7041, Stop: 7433, Start Num: 41
Candidate Starts for Getalong_12:
(6, 6912), (12, 6957), (13, 6963), (14, 6969), (18, 6987), (Start: 41 @7041 has 32 MA's), (53, 7068), (79, 7107), (83, 7113), (85, 7119), (90, 7131), (110, 7155), (125, 7194), (131, 7200), (136, 7212), (141, 7221), (159, 7272), (163, 7284),

Gene: GiKK_15 Start: 7833, Stop: 8237, Start Num: 49
Candidate Starts for GiKK_15:
(Start: 49 @7833 has 72 MA's), (70, 7875), (95, 7923), (101, 7944), (154, 8067), (172, 8112),

Gene: Gibbous_12 Start: 7693, Stop: 8091, Start Num: 49
Candidate Starts for Gibbous_12:
(Start: 49 @7693 has 72 MA's), (74, 7741), (95, 7777), (116, 7822), (120, 7831), (134, 7861), (144, 7888), (145, 7897), (149, 7909), (160, 7936), (187, 8002), (195, 8035),

Gene: Gibbzilla_12 Start: 7779, Stop: 8162, Start Num: 33
Candidate Starts for Gibbzilla_12:
(Start: 28 @7770 has 2 MA's), (Start: 33 @7779 has 96 MA's), (87, 7863), (116, 7905), (131, 7938), (204, 8118),

Gene: Giorgio_12 Start: 8549, Stop: 8968, Start Num: 33
Candidate Starts for Giorgio_12:
(Start: 33 @8549 has 96 MA's), (54, 8591), (142, 8768), (183, 8873),

Gene: Gisselle_10 Start: 7581, Stop: 7991, Start Num: 17
Candidate Starts for Gisselle_10:
(Start: 17 @7581 has 76 MA's), (114, 7713), (120, 7728), (141, 7773), (142, 7776), (198, 7932),

Gene: Glenn_14 Start: 10429, Stop: 10842, Start Num: 17
Candidate Starts for Glenn_14:
(Start: 17 @10429 has 76 MA's), (114, 10564), (120, 10579), (141, 10624), (153, 10666), (198, 10783),

Gene: Glotell_11 Start: 7902, Stop: 8342, Start Num: 20
Candidate Starts for Glotell_11:
(Start: 20 @7902 has 56 MA's), (Start: 47 @7953 has 1 MA's), (109, 8055), (111, 8058), (126, 8094), (131, 8100), (138, 8115), (163, 8187), (175, 8214), (208, 8313), (210, 8319), (213, 8331),

Gene: GoldHunter_12 Start: 7523, Stop: 7933, Start Num: 49
Candidate Starts for GoldHunter_12:
(Start: 49 @7523 has 72 MA's), (70, 7565), (74, 7571), (95, 7610), (115, 7652), (139, 7706), (159, 7766),

Gene: GramZayde_12 Start: 8336, Stop: 8779, Start Num: 20
Candidate Starts for GramZayde_12:
(Start: 20 @8336 has 56 MA's), (65, 8426), (69, 8432), (108, 8486), (109, 8489), (126, 8528), (175, 8648), (183, 8672), (208, 8744), (210, 8750),

Gene: Gravel_13 Start: 8491, Stop: 8931, Start Num: 20
Candidate Starts for Gravel_13:
(16, 8479), (Start: 20 @8491 has 56 MA's), (65, 8581), (93, 8623), (108, 8641), (109, 8644), (126, 8683), (163, 8776), (175, 8803), (183, 8827), (195, 8863), (208, 8899),

Gene: Graynor_14 Start: 10435, Stop: 10845, Start Num: 17
Candidate Starts for Graynor_14:
(Start: 17 @10435 has 76 MA's), (Start: 49 @10477 has 72 MA's), (120, 10579), (198, 10783),

Gene: GreenHearts_14 Start: 10522, Stop: 10932, Start Num: 17
Candidate Starts for GreenHearts_14:
(Start: 17 @10522 has 76 MA's), (74, 10606), (120, 10666), (121, 10675), (123, 10678), (139, 10708), (142, 10714), (150, 10747), (198, 10870), (208, 10894),

Gene: Greenhouse_14 Start: 10447, Stop: 10857, Start Num: 17
Candidate Starts for Greenhouse_14:
(Start: 17 @10447 has 76 MA's), (120, 10591), (121, 10600), (123, 10603), (139, 10633), (142, 10639), (150, 10672), (198, 10795), (208, 10819),

Gene: Gretchen_11 Start: 9337, Stop: 9759, Start Num: 33
Candidate Starts for Gretchen_11:
(Start: 33 @9337 has 96 MA's), (90, 9430), (93, 9436), (97, 9451), (139, 9541), (150, 9580), (159, 9598), (204, 9709),

Gene: GrimEater_11 Start: 6791, Stop: 7189, Start Num: 35
Candidate Starts for GrimEater_11:
(Start: 35 @6791 has 7 MA's), (Start: 40 @6797 has 30 MA's), (45, 6806), (138, 6962), (164, 7034), (167, 7043),

Gene: Grist_11 Start: 7957, Stop: 8355, Start Num: 37
Candidate Starts for Grist_11:
(Start: 37 @7957 has 52 MA's), (167, 8203), (202, 8308),

Gene: Guey18_49 Start: 17771, Stop: 18151, Start Num: 22
Candidate Starts for Guey18_49:
(Start: 22 @17771 has 6 MA's), (Start: 41 @17810 has 32 MA's), (Start: 52 @17834 has 7 MA's), (91, 17891), (116, 17948), (137, 17996), (154, 18050),

Gene: Gumpizza_12 Start: 8548, Stop: 8967, Start Num: 33
Candidate Starts for Gumpizza_12:
(Start: 33 @8548 has 96 MA's), (54, 8590), (142, 8767), (183, 8872),

Gene: Halsey_12 Start: 8547, Stop: 8966, Start Num: 33
Candidate Starts for Halsey_12:
(Start: 33 @8547 has 96 MA's), (54, 8589), (183, 8871),

Gene: HamCheese_11 Start: 7902, Stop: 8342, Start Num: 20
Candidate Starts for HamCheese_11:
(Start: 20 @7902 has 56 MA's), (Start: 47 @7953 has 1 MA's), (109, 8055), (111, 8058), (126, 8094), (131, 8100), (138, 8115), (163, 8187), (175, 8214), (208, 8313), (210, 8319), (213, 8331),

Gene: HannahPhantana_13 Start: 8500, Stop: 8943, Start Num: 20
Candidate Starts for HannahPhantana_13:
(Start: 20 @8500 has 56 MA's), (65, 8590), (69, 8596), (108, 8650), (109, 8653), (126, 8692), (175, 8812), (183, 8836), (208, 8908), (210, 8914),

Gene: HeadNerd_10 Start: 7516, Stop: 7926, Start Num: 17
Candidate Starts for HeadNerd_10:
(Start: 17 @7516 has 76 MA's), (114, 7648), (120, 7663), (141, 7708), (142, 7711), (153, 7750), (198, 7867),

Gene: Herb_10 Start: 7547, Stop: 7984, Start Num: 17
Candidate Starts for Herb_10:
(Start: 17 @7547 has 76 MA's), (Start: 19 @7553 has 9 MA's), (46, 7592), (48, 7595), (114, 7688), (120, 7703), (123, 7715), (129, 7724), (131, 7727), (141, 7748), (198, 7907),

Gene: Hereford_13 Start: 8889, Stop: 9278, Start Num: 40
Candidate Starts for Hereford_13:
(Start: 40 @8889 has 30 MA's), (125, 9036), (153, 9102), (159, 9114),

Gene: Hexbug_14 Start: 8519, Stop: 8923, Start Num: 49
Candidate Starts for Hexbug_14:
(Start: 49 @8519 has 72 MA's), (58, 8540), (74, 8567), (95, 8609), (140, 8708), (172, 8798), (188, 8840), (205, 8894), (212, 8918),

Gene: Hilltopfarm_18 Start: 12024, Stop: 12464, Start Num: 24
Candidate Starts for Hilltopfarm_18:
(Start: 24 @12024 has 3 MA's), (Start: 25 @12027 has 3 MA's), (69, 12105), (78, 12114), (82, 12120), (85, 12126), (121, 12204), (147, 12270), (163, 12306), (192, 12381), (205, 12420),

Gene: HippoPololi_14 Start: 8345, Stop: 8743, Start Num: 49
Candidate Starts for HippoPololi_14:
(Start: 49 @8345 has 72 MA's), (74, 8393), (116, 8474), (120, 8483), (129, 8504), (134, 8513), (144, 8540), (145, 8549), (149, 8561), (160, 8588), (163, 8597), (187, 8654),

Gene: Holliday_12 Start: 7046, Stop: 7438, Start Num: 41
Candidate Starts for Holliday_12:
(6, 6917), (12, 6962), (13, 6968), (14, 6974), (18, 6992), (23, 7010), (Start: 41 @7046 has 32 MA's), (53, 7073), (83, 7118), (85, 7124), (90, 7136), (110, 7160), (125, 7199), (131, 7205), (138, 7220), (141, 7226), (159, 7277), (163, 7289), (187, 7343),

Gene: Honk_10 Start: 7323, Stop: 7739, Start Num: 33
Candidate Starts for Honk_10:
(Start: 33 @7323 has 96 MA's), (88, 7416), (114, 7473), (200, 7692),

Gene: Horseradish_13 Start: 7404, Stop: 7814, Start Num: 49
Candidate Starts for Horseradish_13:
(Start: 49 @7404 has 72 MA's), (74, 7452), (95, 7491), (115, 7533), (139, 7587), (159, 7647),

Gene: Horus_12 Start: 7041, Stop: 7451, Start Num: 41
Candidate Starts for Horus_12:
(6, 6912), (12, 6957), (13, 6963), (14, 6969), (18, 6987), (Start: 41 @7041 has 32 MA's), (53, 7068), (83, 7113), (85, 7119), (110, 7173), (125, 7212), (131, 7218), (141, 7239), (159, 7290), (163, 7302),

Gene: Huckleberry_10 Start: 7516, Stop: 7926, Start Num: 17
Candidate Starts for Huckleberry_10:
(Start: 17 @7516 has 76 MA's), (114, 7648), (120, 7663), (141, 7708), (142, 7711), (153, 7750), (198, 7867),

Gene: HunterDalle_10 Start: 7551, Stop: 7982, Start Num: 19
Candidate Starts for HunterDalle_10:
(Start: 17 @7545 has 76 MA's), (Start: 19 @7551 has 9 MA's), (29, 7572), (78, 7644), (123, 7713), (129, 7722), (141, 7746), (198, 7905),

Gene: Huntingdon_14 Start: 10433, Stop: 10843, Start Num: 17
Candidate Starts for Huntingdon_14:
(Start: 17 @10433 has 76 MA's), (120, 10577), (121, 10586), (123, 10589), (139, 10619), (142, 10625), (150, 10658), (198, 10781), (208, 10805),

Gene: IAmGroot_11 Start: 9102, Stop: 9521, Start Num: 33
Candidate Starts for IAmGroot_11:
(Start: 33 @9102 has 96 MA's), (90, 9195), (93, 9201), (139, 9306), (150, 9345),

Gene: IUFootball_11 Start: 7496, Stop: 7915, Start Num: 33
Candidate Starts for IUFootball_11:
(Start: 33 @7496 has 96 MA's), (44, 7514), (90, 7601), (142, 7715), (200, 7865),

Gene: Icarian_12 Start: 8152, Stop: 8547, Start Num: 37
Candidate Starts for Icarian_12:
(Start: 37 @8152 has 52 MA's), (77, 8215), (120, 8272), (195, 8479), (202, 8500),

Gene: Immaculata_14 Start: 10423, Stop: 10836, Start Num: 17
Candidate Starts for Immaculata_14:
(Start: 17 @10423 has 76 MA's), (114, 10558), (120, 10573), (141, 10618), (153, 10660), (198, 10777),

Gene: InLimbo_12 Start: 6561, Stop: 6944, Start Num: 50
Candidate Starts for InLimbo_12:
(Start: 50 @6561 has 11 MA's), (88, 6615), (90, 6621), (95, 6633), (104, 6657), (135, 6717), (178, 6834), (180, 6840), (210, 6930),

Gene: IndyLu_11 Start: 7957, Stop: 8355, Start Num: 37
Candidate Starts for IndyLu_11:
(Start: 37 @7957 has 52 MA's), (167, 8203), (202, 8308),

Gene: Iter_12 Start: 9053, Stop: 9463, Start Num: 33
Candidate Starts for Iter_12:
(Start: 33 @9053 has 96 MA's), (71, 9122), (144, 9272), (188, 9383), (200, 9416),

Gene: IttyBittyPiggy_12 Start: 9041, Stop: 9454, Start Num: 33
Candidate Starts for IttyBittyPiggy_12:
(Start: 33 @9041 has 96 MA's), (71, 9110), (188, 9371), (200, 9404),

Gene: Jabb_11 Start: 7951, Stop: 8346, Start Num: 37
Candidate Starts for Jabb_11:
(5, 7825), (Start: 37 @7951 has 52 MA's), (60, 7990), (85, 8017), (131, 8095), (180, 8227), (210, 8320),

Gene: Jabbawokkie_14 Start: 7736, Stop: 8140, Start Num: 52
Candidate Starts for Jabbawokkie_14:
(Start: 52 @7736 has 7 MA's), (70, 7769), (98, 7829), (128, 7895), (170, 8015), (177, 8027), (190, 8063), (197, 8093),

Gene: Jablanski_13 Start: 8116, Stop: 8502, Start Num: 56
Candidate Starts for Jablanski_13:
(Start: 19 @8035 has 9 MA's), (Start: 56 @8116 has 21 MA's), (80, 8152), (92, 8173),

Gene: Jamun_12 Start: 8669, Stop: 9112, Start Num: 20
Candidate Starts for Jamun_12:
(Start: 20 @8669 has 56 MA's), (Start: 41 @8711 has 32 MA's), (Start: 50 @8729 has 11 MA's), (69, 8765), (108, 8819), (109, 8822), (126, 8861), (146, 8915), (163, 8954), (175, 8981), (183, 9005), (185, 9011),

Gene: Jamzy_15 Start: 7843, Stop: 8247, Start Num: 49
Candidate Starts for Jamzy_15:
(Start: 49 @7843 has 72 MA's), (70, 7885), (95, 7933), (101, 7954), (154, 8077), (172, 8122),

Gene: Janeemi_13 Start: 10130, Stop: 10543, Start Num: 33
Candidate Starts for Janeemi_13:
(Start: 33 @10130 has 96 MA's), (57, 10175), (139, 10337), (144, 10349), (188, 10460), (200, 10493),

Gene: JanetJ_12 Start: 8526, Stop: 8915, Start Num: 40
Candidate Starts for JanetJ_12:
(Start: 40 @8526 has 30 MA's), (136, 8694), (153, 8739), (159, 8751), (186, 8823), (202, 8871),

Gene: Jankie_11 Start: 6790, Stop: 7188, Start Num: 35
Candidate Starts for Jankie_11:
(Start: 35 @6790 has 7 MA's), (Start: 40 @6796 has 30 MA's), (45, 6805), (138, 6961), (164, 7033), (167, 7042),

Gene: JasmineDragon_11 Start: 7286, Stop: 7681, Start Num: 33
Candidate Starts for JasmineDragon_11:
(Start: 33 @7286 has 96 MA's), (139, 7478),

Gene: JeanClaude_11 Start: 7509, Stop: 7886, Start Num: 40
Candidate Starts for JeanClaude_11:
(Start: 40 @7509 has 30 MA's), (116, 7623), (125, 7650), (136, 7671), (178, 7779), (191, 7815), (202, 7848),

Gene: Jerole_13 Start: 8497, Stop: 8940, Start Num: 20
Candidate Starts for Jerole_13:
(Start: 20 @8497 has 56 MA's), (65, 8587), (69, 8593), (108, 8647), (109, 8650), (126, 8689), (175, 8809), (183, 8833), (208, 8905), (210, 8911),

Gene: Joann_14 Start: 10425, Stop: 10835, Start Num: 17
Candidate Starts for Joann_14:
(Start: 17 @10425 has 76 MA's), (120, 10569), (121, 10578), (123, 10581), (139, 10611), (142, 10617), (150, 10650), (198, 10773), (208, 10797),

Gene: Joemato_12 Start: 9040, Stop: 9453, Start Num: 33
Candidate Starts for Joemato_12:
(Start: 33 @9040 has 96 MA's), (71, 9109), (144, 9259), (188, 9370), (200, 9403),

Gene: JohnDoe_12 Start: 9038, Stop: 9451, Start Num: 33
Candidate Starts for JohnDoe_12:
(Start: 33 @9038 has 96 MA's), (71, 9107), (144, 9257), (188, 9368), (200, 9401),

Gene: JohnThicc_11 Start: 7283, Stop: 7678, Start Num: 33
Candidate Starts for JohnThicc_11:
(Start: 33 @7283 has 96 MA's), (139, 7475),

Gene: Johnathan_11 Start: 7911, Stop: 8306, Start Num: 37
Candidate Starts for Johnathan_11:
(5, 7785), (Start: 37 @7911 has 52 MA's), (60, 7950), (85, 7977), (131, 8055), (167, 8154), (180, 8187), (210, 8280),

Gene: Jovita_11 Start: 8013, Stop: 8408, Start Num: 37
Candidate Starts for Jovita_11:
(Start: 37 @8013 has 52 MA's), (60, 8052), (85, 8079), (131, 8157), (180, 8289), (210, 8382),

Gene: Jstan_12 Start: 9019, Stop: 9429, Start Num: 33
Candidate Starts for Jstan_12:
(Start: 33 @9019 has 96 MA's), (71, 9088), (139, 9226), (144, 9238), (188, 9349), (200, 9382),

Gene: Juicebox_13 Start: 8820, Stop: 9218, Start Num: 55
Candidate Starts for Juicebox_13:
(Start: 55 @8820 has 1 MA's), (89, 8877), (104, 8916), (189, 9132),

Gene: Jumboset_14 Start: 10372, Stop: 10785, Start Num: 17
Candidate Starts for Jumboset_14:
(Start: 17 @10372 has 76 MA's), (114, 10507), (120, 10522), (141, 10567), (153, 10609), (198, 10726),

Gene: JuneStar_12 Start: 9135, Stop: 9548, Start Num: 33
Candidate Starts for JuneStar_12:
(Start: 33 @9135 has 96 MA's), (188, 9465), (200, 9498),

Gene: Juno112_11 Start: 7903, Stop: 8343, Start Num: 20
Candidate Starts for Juno112_11:
(Start: 20 @7903 has 56 MA's), (Start: 47 @7954 has 1 MA's), (109, 8056), (111, 8059), (126, 8095), (131, 8101), (138, 8116), (163, 8188), (175, 8215), (208, 8314), (210, 8320), (213, 8332),

Gene: KHumphrey_11 Start: 7902, Stop: 8342, Start Num: 20
Candidate Starts for KHumphrey_11:
(Start: 20 @7902 has 56 MA's), (Start: 47 @7953 has 1 MA's), (109, 8055), (111, 8058), (126, 8094), (131, 8100), (138, 8115), (163, 8187), (175, 8214), (208, 8313), (210, 8319), (213, 8331),

Gene: Kalimba_12 Start: 8456, Stop: 8875, Start Num: 33
Candidate Starts for Kalimba_12:
(Start: 33 @8456 has 96 MA's), (54, 8498), (183, 8780),

Gene: Kalizoi_14 Start: 10371, Stop: 10784, Start Num: 17
Candidate Starts for Kalizoi_14:
(Start: 17 @10371 has 76 MA's), (114, 10506), (120, 10521), (141, 10566), (153, 10608), (198, 10725),

Gene: Kamaru_12 Start: 7046, Stop: 7438, Start Num: 41
Candidate Starts for Kamaru_12:
(6, 6917), (12, 6962), (13, 6968), (14, 6974), (18, 6992), (23, 7010), (Start: 41 @7046 has 32 MA's), (53, 7073), (83, 7118), (85, 7124), (90, 7136), (110, 7160), (125, 7199), (131, 7205), (138, 7220), (141, 7226), (159, 7277), (163, 7289), (187, 7343),

Gene: Kamdara_11 Start: 8140, Stop: 8541, Start Num: 39
Candidate Starts for Kamdara_11:
(Start: 39 @8140 has 15 MA's), (131, 8290), (173, 8404), (195, 8473),

Gene: Kate33_11 Start: 7956, Stop: 8354, Start Num: 37
Candidate Starts for Kate33_11:
(Start: 37 @7956 has 52 MA's), (167, 8202), (202, 8307),

Gene: Katzastrophic_11 Start: 8051, Stop: 8449, Start Num: 39
Candidate Starts for Katzastrophic_11:
(4, 7913), (Start: 39 @8051 has 15 MA's), (51, 8072), (180, 8330), (187, 8348), (195, 8381),

Gene: KayGee_12 Start: 7294, Stop: 7704, Start Num: 49
Candidate Starts for KayGee_12:
(Start: 49 @7294 has 72 MA's), (74, 7339), (95, 7378), (114, 7417), (119, 7429), (145, 7498), (187, 7603), (210, 7678),

Gene: Kaylissa_12 Start: 9041, Stop: 9454, Start Num: 33
Candidate Starts for Kaylissa_12:
(Start: 33 @9041 has 96 MA's), (71, 9110), (144, 9260), (188, 9371), (200, 9404),

Gene: KeAlii_12 Start: 9073, Stop: 9474, Start Num: 38
Candidate Starts for KeAlii_12:
(Start: 38 @9073 has 2 MA's), (Start: 43 @9079 has 1 MA's), (144, 9280), (164, 9340), (200, 9424),

Gene: Keelan_42 Start: 16553, Stop: 16933, Start Num: 22
Candidate Starts for Keelan_42:
(Start: 22 @16553 has 6 MA's), (Start: 41 @16592 has 32 MA's), (67, 16643), (85, 16661), (91, 16673), (114, 16724), (130, 16766), (137, 16778), (154, 16832),

Gene: KendraB23_13 Start: 8492, Stop: 8932, Start Num: 20
Candidate Starts for KendraB23_13:
(16, 8480), (Start: 20 @8492 has 56 MA's), (65, 8582), (93, 8624), (108, 8642), (109, 8645), (126, 8684), (163, 8777), (175, 8804), (183, 8828), (195, 8864), (208, 8900),

Gene: Kenna_12 Start: 7041, Stop: 7451, Start Num: 41
Candidate Starts for Kenna_12:
(6, 6912), (12, 6957), (13, 6963), (14, 6969), (18, 6987), (23, 7005), (Start: 41 @7041 has 32 MA's), (53, 7068), (83, 7113), (85, 7119), (110, 7173), (125, 7212), (131, 7218), (141, 7239), (159, 7290),

(163, 7302),

Gene: Kenzers_11 Start: 7928, Stop: 8323, Start Num: 37
Candidate Starts for Kenzers_11:
(Start: 37 @7928 has 52 MA's), (60, 7967), (131, 8072), (167, 8171), (180, 8204), (210, 8297),

Gene: Kepler_12 Start: 8335, Stop: 8778, Start Num: 20
Candidate Starts for Kepler_12:
(Start: 20 @8335 has 56 MA's), (65, 8425), (69, 8431), (108, 8485), (109, 8488), (126, 8527), (175, 8647), (183, 8671), (208, 8743), (210, 8749),

Gene: Kieran_11 Start: 8144, Stop: 8545, Start Num: 39
Candidate Starts for Kieran_11:
(Start: 39 @8144 has 15 MA's), (131, 8294), (173, 8408), (195, 8477),

Gene: KingBob_10 Start: 7547, Stop: 7984, Start Num: 17
Candidate Starts for KingBob_10:
(Start: 17 @7547 has 76 MA's), (Start: 19 @7553 has 9 MA's), (46, 7592), (48, 7595), (114, 7688), (120, 7703), (123, 7715), (129, 7724), (131, 7727), (141, 7748), (198, 7907),

Gene: Kittykat_10 Start: 7557, Stop: 7967, Start Num: 17
Candidate Starts for Kittykat_10:
(Start: 17 @7557 has 76 MA's), (114, 7689), (120, 7704), (141, 7749), (142, 7752), (198, 7908),

Gene: Korra_14 Start: 10377, Stop: 10790, Start Num: 17
Candidate Starts for Korra_14:
(Start: 17 @10377 has 76 MA's), (114, 10512), (120, 10527), (141, 10572), (153, 10614), (198, 10731),

Gene: Kromp_13 Start: 9303, Stop: 9734, Start Num: 35
Candidate Starts for Kromp_13:
(Start: 35 @9303 has 7 MA's), (105, 9426), (114, 9441), (116, 9447), (124, 9471), (136, 9495), (184, 9627), (202, 9687), (205, 9693), (207, 9696), (208, 9702),

Gene: Kuleana_12 Start: 8295, Stop: 8735, Start Num: 20
Candidate Starts for Kuleana_12:
(Start: 20 @8295 has 56 MA's), (65, 8385), (69, 8391), (77, 8403), (109, 8448), (126, 8487), (138, 8508), (162, 8577), (163, 8580), (175, 8607), (178, 8616), (183, 8631), (208, 8703), (210, 8709),

Gene: Kumotta_12 Start: 8443, Stop: 8820, Start Num: 40
Candidate Starts for Kumotta_12:
(Start: 40 @8443 has 30 MA's), (125, 8584), (136, 8605), (139, 8611), (153, 8650), (176, 8707), (178, 8713), (191, 8749), (202, 8782),

Gene: Kuwabara_12 Start: 7390, Stop: 7773, Start Num: 50
Candidate Starts for Kuwabara_12:
(Start: 50 @7390 has 11 MA's), (88, 7444), (90, 7450), (95, 7462), (104, 7486), (180, 7669), (210, 7759),

Gene: LadyAstra_11 Start: 7283, Stop: 7678, Start Num: 33
Candidate Starts for LadyAstra_11:
(Start: 33 @7283 has 96 MA's), (139, 7475),

Gene: Lahqtemish_11 Start: 8003, Stop: 8401, Start Num: 39

Candidate Starts for Lahqtemish_11:
(Start: 39 @8003 has 15 MA's), (60, 8042), (167, 8249), (202, 8354),

Gene: Lakshmi_14 Start: 10452, Stop: 10862, Start Num: 17
Candidate Starts for Lakshmi_14:
(Start: 17 @10452 has 76 MA's), (120, 10596), (121, 10605), (123, 10608), (139, 10638), (142, 10644), (150, 10677), (198, 10800), (208, 10824),

Gene: Laphuphu24k_11 Start: 7902, Stop: 8342, Start Num: 20
Candidate Starts for Laphuphu24k_11:
(Start: 20 @7902 has 56 MA's), (Start: 47 @7953 has 1 MA's), (109, 8055), (111, 8058), (126, 8094), (131, 8100), (138, 8115), (163, 8187), (175, 8214), (208, 8313), (210, 8319), (213, 8331),

Gene: Lasagna_10 Start: 7514, Stop: 7924, Start Num: 17
Candidate Starts for Lasagna_10:
(Start: 17 @7514 has 76 MA's), (85, 7607), (114, 7646), (120, 7661), (141, 7706), (153, 7748), (162, 7769), (198, 7865),

Gene: LastNadiia_16 Start: 10019, Stop: 10411, Start Num: 40
Candidate Starts for LastNadiia_16:
(Start: 40 @10019 has 30 MA's), (78, 10082), (131, 10175), (144, 10205), (162, 10259), (163, 10262), (164, 10265), (178, 10301), (215, 10403),

Gene: Lauer_11 Start: 7343, Stop: 7753, Start Num: 49
Candidate Starts for Lauer_11:
(Start: 49 @7343 has 72 MA's), (74, 7388), (95, 7427), (114, 7466), (119, 7478), (145, 7547), (187, 7652), (210, 7727),

Gene: Lego_12 Start: 9039, Stop: 9452, Start Num: 33
Candidate Starts for Lego_12:
(Start: 33 @9039 has 96 MA's), (71, 9108), (144, 9258), (188, 9369), (200, 9402),

Gene: Lennox_10 Start: 7514, Stop: 7924, Start Num: 17
Candidate Starts for Lennox_10:
(Start: 17 @7514 has 76 MA's), (85, 7607), (114, 7646), (120, 7661), (141, 7706), (153, 7748), (162, 7769), (198, 7865),

Gene: Leona_11 Start: 7953, Stop: 8393, Start Num: 20
Candidate Starts for Leona_11:
(Start: 20 @7953 has 56 MA's), (109, 8106), (111, 8109), (126, 8145), (131, 8151), (138, 8166), (163, 8238), (175, 8265), (208, 8364), (210, 8370), (213, 8382),

Gene: Leroy_12 Start: 7042, Stop: 7452, Start Num: 41
Candidate Starts for Leroy_12:
(6, 6913), (12, 6958), (13, 6964), (14, 6970), (18, 6988), (Start: 41 @7042 has 32 MA's), (53, 7069), (83, 7114), (85, 7120), (110, 7174), (125, 7213), (131, 7219), (141, 7240), (159, 7291), (163, 7303),

Gene: Liebe_11 Start: 7496, Stop: 7915, Start Num: 33
Candidate Starts for Liebe_11:
(Start: 33 @7496 has 96 MA's), (44, 7514), (90, 7601), (142, 7715), (200, 7865),

Gene: LilSpotty_11 Start: 7105, Stop: 7479, Start Num: 49
Candidate Starts for LilSpotty_11:

(48, 7102), (Start: 49 @7105 has 72 MA's), (116, 7219), (117, 7222), (159, 7330), (163, 7342), (164, 7345), (184, 7384), (209, 7459),

Gene: LilStuart_10 Start: 7514, Stop: 7924, Start Num: 17
Candidate Starts for LilStuart_10:
(Start: 17 @7514 has 76 MA's), (85, 7607), (114, 7646), (120, 7661), (141, 7706), (153, 7748), (162, 7769), (198, 7865),

Gene: Lilas_13 Start: 8269, Stop: 8655, Start Num: 56
Candidate Starts for Lilas_13:
(Start: 56 @8269 has 21 MA's), (92, 8326),

Gene: Lilo27_11 Start: 7888, Stop: 8283, Start Num: 37
Candidate Starts for Lilo27_11:
(Start: 37 @7888 has 52 MA's), (60, 7927), (85, 7954), (131, 8032), (167, 8131), (180, 8164), (210, 8257),

Gene: LimaBean_11 Start: 7911, Stop: 8306, Start Num: 37
Candidate Starts for LimaBean_11:
(5, 7785), (Start: 37 @7911 has 52 MA's), (60, 7950), (85, 7977), (131, 8055), (167, 8154), (180, 8187), (210, 8280),

Gene: LisoBros_11 Start: 7066, Stop: 7461, Start Num: 35
Candidate Starts for LisoBros_11:
(Start: 35 @7066 has 7 MA's), (57, 7102), (116, 7186), (138, 7234), (164, 7306),

Gene: LitninMcQueen_12 Start: 7046, Stop: 7438, Start Num: 41
Candidate Starts for LitninMcQueen_12:
(6, 6917), (12, 6962), (13, 6968), (14, 6974), (18, 6992), (23, 7010), (Start: 41 @7046 has 32 MA's), (53, 7073), (83, 7118), (85, 7124), (90, 7136), (110, 7160), (125, 7199), (131, 7205), (138, 7220), (141, 7226), (159, 7277), (163, 7289), (187, 7343),

Gene: Litotes_14 Start: 10399, Stop: 10809, Start Num: 17
Candidate Starts for Litotes_14:
(Start: 17 @10399 has 76 MA's), (Start: 49 @10441 has 72 MA's), (120, 10543), (198, 10747),

Gene: LittleTokyo_12 Start: 8235, Stop: 8678, Start Num: 20
Candidate Starts for LittleTokyo_12:
(16, 8223), (Start: 17 @8226 has 76 MA's), (Start: 20 @8235 has 56 MA's), (138, 8448), (153, 8496), (158, 8505), (159, 8508), (163, 8520), (183, 8571), (187, 8580), (208, 8646), (213, 8664),

Gene: Lizalica_12 Start: 9025, Stop: 9438, Start Num: 33
Candidate Starts for Lizalica_12:
(Start: 33 @9025 has 96 MA's), (71, 9094), (144, 9244), (188, 9355), (200, 9388),

Gene: London_12 Start: 9019, Stop: 9429, Start Num: 33
Candidate Starts for London_12:
(Start: 33 @9019 has 96 MA's), (71, 9088), (139, 9226), (144, 9238), (188, 9349), (200, 9382),

Gene: LonelyBoi_13 Start: 8116, Stop: 8502, Start Num: 56
Candidate Starts for LonelyBoi_13:
(Start: 19 @8035 has 9 MA's), (Start: 56 @8116 has 21 MA's), (92, 8173),

Gene: LongHai_15 Start: 9275, Stop: 9649, Start Num: 86
Candidate Starts for LongHai_15:
(51, 9212), (Start: 52 @9215 has 7 MA's), (80, 9263), (86, 9275), (94, 9296), (95, 9302), (122, 9374), (131, 9389), (151, 9455), (157, 9467), (164, 9485), (182, 9530), (200, 9593),

Gene: Loviatar_11 Start: 8231, Stop: 8626, Start Num: 37
Candidate Starts for Loviatar_11:
(5, 8105), (Start: 37 @8231 has 52 MA's), (Start: 41 @8234 has 32 MA's), (77, 8294), (173, 8489), (187, 8525), (195, 8558), (202, 8579),

Gene: Lucky10_11 Start: 6599, Stop: 6982, Start Num: 50
Candidate Starts for Lucky10_11:
(Start: 50 @6599 has 11 MA's), (88, 6653), (90, 6659), (95, 6671), (104, 6695), (135, 6755),

Gene: Lucy_10 Start: 7505, Stop: 7915, Start Num: 17
Candidate Starts for Lucy_10:
(Start: 17 @7505 has 76 MA's), (85, 7598), (114, 7637), (120, 7652), (141, 7697), (153, 7739), (162, 7760), (198, 7856),

Gene: Lunar_13 Start: 8497, Stop: 8940, Start Num: 20
Candidate Starts for Lunar_13:
(Start: 20 @8497 has 56 MA's), (65, 8587), (69, 8593), (108, 8647), (109, 8650), (126, 8689), (175, 8809), (183, 8833), (208, 8905), (210, 8911),

Gene: Lutum_12 Start: 7041, Stop: 7451, Start Num: 41
Candidate Starts for Lutum_12:
(6, 6912), (12, 6957), (13, 6963), (14, 6969), (18, 6987), (23, 7005), (Start: 41 @7041 has 32 MA's), (53, 7068), (83, 7113), (85, 7119), (110, 7173), (125, 7212), (131, 7218), (141, 7239), (159, 7290), (163, 7302),

Gene: Lynlen_11 Start: 7928, Stop: 8323, Start Num: 37
Candidate Starts for Lynlen_11:
(Start: 37 @7928 has 52 MA's), (60, 7967), (131, 8072), (167, 8171), (180, 8204), (210, 8297),

Gene: MAnor_12 Start: 7284, Stop: 7694, Start Num: 49
Candidate Starts for MAnor_12:
(Start: 49 @7284 has 72 MA's), (74, 7329), (95, 7368), (114, 7407), (119, 7419), (145, 7488), (187, 7593), (210, 7668),

Gene: MScarn_14 Start: 7491, Stop: 7901, Start Num: 49
Candidate Starts for MScarn_14:
(Start: 49 @7491 has 72 MA's), (70, 7533), (74, 7539), (95, 7578), (115, 7620), (139, 7674), (154, 7722), (159, 7734),

Gene: MaGuCo_11 Start: 7435, Stop: 7851, Start Num: 34
Candidate Starts for MaGuCo_11:
(Start: 34 @7435 has 10 MA's), (Start: 41 @7444 has 32 MA's), (44, 7450), (54, 7474), (90, 7537), (142, 7651), (200, 7801),

Gene: MaVan_14 Start: 8446, Stop: 8850, Start Num: 49
Candidate Starts for MaVan_14:
(Start: 49 @8446 has 72 MA's), (74, 8494), (116, 8575), (134, 8614), (144, 8641), (160, 8689), (187, 8755),

Gene: Mabodamaca_11 Start: 8555, Stop: 8968, Start Num: 34
Candidate Starts for Mabodamaca_11:
(Start: 34 @8555 has 10 MA's), (114, 8696),

Gene: Maja_11 Start: 8064, Stop: 8444, Start Num: 40
Candidate Starts for Maja_11:
(Start: 40 @8064 has 30 MA's), (64, 8112), (90, 8142), (125, 8208), (136, 8229), (139, 8235), (178, 8337), (191, 8373), (202, 8406),

Gene: Makima_14 Start: 9103, Stop: 9495, Start Num: 40
Candidate Starts for Makima_14:
(Start: 40 @9103 has 30 MA's), (78, 9166), (131, 9259), (144, 9289), (162, 9343), (163, 9346), (164, 9349), (178, 9385), (215, 9487),

Gene: Makoto_10 Start: 7514, Stop: 7924, Start Num: 17
Candidate Starts for Makoto_10:
(Start: 17 @7514 has 76 MA's), (85, 7607), (114, 7646), (120, 7661), (141, 7706), (153, 7748), (162, 7769), (198, 7865),

Gene: Malisha_12 Start: 8091, Stop: 8501, Start Num: 41
Candidate Starts for Malisha_12:
(12, 8007), (13, 8013), (Start: 41 @8091 has 32 MA's), (85, 8169), (90, 8181), (110, 8223), (125, 8262), (131, 8268), (138, 8283), (141, 8289), (153, 8328), (163, 8352), (187, 8406),

Gene: Malvina_14 Start: 8348, Stop: 8746, Start Num: 49
Candidate Starts for Malvina_14:
(Start: 49 @8348 has 72 MA's), (74, 8396), (116, 8477), (134, 8516), (144, 8543), (145, 8552), (149, 8564), (160, 8591), (163, 8600), (187, 8657),

Gene: MamaPearl_10 Start: 7558, Stop: 7971, Start Num: 17
Candidate Starts for MamaPearl_10:
(Start: 17 @7558 has 76 MA's), (57, 7621), (120, 7705), (141, 7750), (142, 7753), (153, 7792), (181, 7852), (198, 7909),

Gene: Margaret_15 Start: 8228, Stop: 8632, Start Num: 49
Candidate Starts for Margaret_15:
(Start: 49 @8228 has 72 MA's), (58, 8249), (60, 8252), (70, 8270), (95, 8318), (98, 8330), (140, 8417), (154, 8462), (188, 8549), (212, 8627),

Gene: MargaretKali_12 Start: 8078, Stop: 8455, Start Num: 40
Candidate Starts for MargaretKali_12:
(Start: 40 @8078 has 30 MA's), (76, 8135), (125, 8219), (136, 8240), (139, 8246), (153, 8285), (176, 8342), (178, 8348), (191, 8384), (202, 8417),

Gene: Maria1952_10 Start: 7547, Stop: 7984, Start Num: 17
Candidate Starts for Maria1952_10:
(Start: 17 @7547 has 76 MA's), (Start: 19 @7553 has 9 MA's), (46, 7592), (48, 7595), (114, 7688), (120, 7703), (123, 7715), (129, 7724), (131, 7727), (141, 7748), (198, 7907),

Gene: Marteena_13 Start: 8269, Stop: 8655, Start Num: 56
Candidate Starts for Marteena_13:
(Start: 56 @8269 has 21 MA's), (92, 8326),

Gene: Maureen_11 Start: 7496, Stop: 7915, Start Num: 33
Candidate Starts for Maureen_11:
(Start: 33 @7496 has 96 MA's), (44, 7514), (90, 7601), (142, 7715), (200, 7865),

Gene: Mayweather_13 Start: 7917, Stop: 8327, Start Num: 49
Candidate Starts for Mayweather_13:
(Start: 49 @7917 has 72 MA's), (74, 7962), (95, 8001), (114, 8040), (119, 8052), (145, 8121), (187, 8226), (210, 8301),

Gene: McDazzle_11 Start: 7759, Stop: 8169, Start Num: 49
Candidate Starts for McDazzle_11:
(Start: 49 @7759 has 72 MA's), (74, 7804), (95, 7843), (114, 7882), (119, 7894), (145, 7963), (187, 8068), (210, 8143),

Gene: MeganNoll_14 Start: 10429, Stop: 10842, Start Num: 17
Candidate Starts for MeganNoll_14:
(Start: 17 @10429 has 76 MA's), (114, 10564), (120, 10579), (131, 10603), (141, 10624), (153, 10666), (198, 10783),

Gene: Melons_13 Start: 8497, Stop: 8940, Start Num: 20
Candidate Starts for Melons_13:
(Start: 20 @8497 has 56 MA's), (65, 8587), (69, 8593), (108, 8647), (109, 8650), (126, 8689), (175, 8809), (183, 8833), (208, 8905), (210, 8911),

Gene: Michkear_14 Start: 10927, Stop: 11340, Start Num: 34
Candidate Starts for Michkear_14:
(Start: 34 @10927 has 10 MA's), (88, 11023), (144, 11149),

Gene: Milomuff_12 Start: 8297, Stop: 8692, Start Num: 37
Candidate Starts for Milomuff_12:
(5, 8171), (Start: 37 @8297 has 52 MA's), (60, 8336), (85, 8363), (131, 8441), (167, 8540), (180, 8573), (210, 8666),

Gene: MiniMommy_10 Start: 7286, Stop: 7681, Start Num: 33
Candidate Starts for MiniMommy_10:
(Start: 33 @7286 has 96 MA's), (139, 7478),

Gene: Mireles_13 Start: 7499, Stop: 7891, Start Num: 40
Candidate Starts for Mireles_13:
(Start: 40 @7499 has 30 MA's), (131, 7655), (144, 7685), (163, 7742), (164, 7745), (215, 7883),

Gene: Misaeng_14 Start: 10498, Stop: 10908, Start Num: 17
Candidate Starts for Misaeng_14:
(Start: 17 @10498 has 76 MA's), (120, 10642), (121, 10651), (123, 10654), (139, 10684), (142, 10690), (150, 10723), (198, 10846), (208, 10870),

Gene: MissSwiss_12 Start: 9018, Stop: 9434, Start Num: 33
Candidate Starts for MissSwiss_12:
(Start: 33 @9018 has 96 MA's), (60, 9066), (142, 9234),

Gene: ModicumRichard_12 Start: 8416, Stop: 8820, Start Num: 33
Candidate Starts for ModicumRichard_12:

(Start: 33 @8416 has 96 MA's), (72, 8485), (141, 8620), (159, 8665), (199, 8779), (208, 8800),

Gene: Moki_10 Start: 7516, Stop: 7926, Start Num: 17
Candidate Starts for Moki_10:
(Start: 17 @7516 has 76 MA's), (114, 7648), (120, 7663), (141, 7708), (142, 7711), (153, 7750), (198, 7867),

Gene: Morgana_12 Start: 8420, Stop: 8824, Start Num: 33
Candidate Starts for Morgana_12:
(Start: 33 @8420 has 96 MA's), (72, 8489), (141, 8624), (199, 8783), (208, 8804),

Gene: Morkie_11 Start: 6561, Stop: 6944, Start Num: 50
Candidate Starts for Morkie_11:
(Start: 50 @6561 has 11 MA's), (88, 6615), (90, 6621), (95, 6633), (104, 6657), (135, 6717), (178, 6834), (180, 6840), (210, 6930),

Gene: Morrey_18 Start: 8746, Stop: 9135, Start Num: 40
Candidate Starts for Morrey_18:
(Start: 40 @8746 has 30 MA's), (125, 8893), (153, 8959), (159, 8971),

Gene: MortyNRick_12 Start: 7390, Stop: 7773, Start Num: 50
Candidate Starts for MortyNRick_12:
(Start: 50 @7390 has 11 MA's), (88, 7444), (90, 7450), (95, 7462), (104, 7486), (180, 7669), (210, 7759),

Gene: Moss_12 Start: 8547, Stop: 8966, Start Num: 33
Candidate Starts for Moss_12:
(Start: 33 @8547 has 96 MA's), (54, 8589), (183, 8871),

Gene: MrBoss_14 Start: 10441, Stop: 10809, Start Num: 49
Candidate Starts for MrBoss_14:
(Start: 17 @10399 has 76 MA's), (Start: 49 @10441 has 72 MA's), (114, 10528), (120, 10543), (198, 10747),

Gene: MrGloopy_14 Start: 10362, Stop: 10775, Start Num: 17
Candidate Starts for MrGloopy_14:
(Start: 17 @10362 has 76 MA's), (114, 10497), (120, 10512), (141, 10557), (153, 10599), (198, 10716),

Gene: MsUbiquitous_11 Start: 7951, Stop: 8346, Start Num: 37
Candidate Starts for MsUbiquitous_11:
(5, 7825), (Start: 37 @7951 has 52 MA's), (60, 7990), (85, 8017), (131, 8095), (180, 8227), (210, 8320),

Gene: Mudpuppy_12 Start: 9039, Stop: 9452, Start Num: 33
Candidate Starts for Mudpuppy_12:
(Start: 33 @9039 has 96 MA's), (71, 9108), (144, 9258), (188, 9369), (200, 9402),

Gene: MunkgeeRoachy_12 Start: 7570, Stop: 7980, Start Num: 49
Candidate Starts for MunkgeeRoachy_12:
(Start: 49 @7570 has 72 MA's), (70, 7612), (74, 7618), (95, 7657), (115, 7699), (139, 7753), (159, 7813),

Gene: Mysterium_12 Start: 8548, Stop: 8967, Start Num: 33
Candidate Starts for Mysterium_12:

(Start: 33 @8548 has 96 MA's), (54, 8590), (142, 8767), (183, 8872),

Gene: Nancia_10 Start: 7514, Stop: 7924, Start Num: 17
Candidate Starts for Nancia_10:
(Start: 17 @7514 has 76 MA's), (85, 7607), (114, 7646), (120, 7661), (141, 7706), (153, 7748), (162, 7769), (198, 7865),

Gene: Nebkiss_9 Start: 7643, Stop: 8014, Start Num: 49
Candidate Starts for Nebkiss_9:
(Start: 49 @7643 has 72 MA's), (107, 7739), (116, 7760), (125, 7787), (127, 7790), (131, 7793), (138, 7808), (159, 7865), (163, 7877), (184, 7922), (204, 7982), (207, 7988), (208, 7994),

Gene: Neroxid_11 Start: 6551, Stop: 6949, Start Num: 35
Candidate Starts for Neroxid_11:
(10, 6467), (Start: 35 @6551 has 7 MA's), (63, 6602), (73, 6614), (85, 6626), (90, 6638), (114, 6665), (131, 6704), (139, 6722), (169, 6809), (183, 6839), (190, 6860),

Gene: Nesbitt_11 Start: 7855, Stop: 8250, Start Num: 28
Candidate Starts for Nesbitt_11:
(Start: 28 @7855 has 2 MA's), (Start: 34 @7867 has 10 MA's), (48, 7888), (51, 7897), (85, 7936), (103, 7960), (116, 7981), (142, 8035), (165, 8101), (167, 8107), (190, 8164), (207, 8212),

Gene: Neuvillette_13 Start: 7727, Stop: 8119, Start Num: 40
Candidate Starts for Neuvillette_13:
(Start: 40 @7727 has 30 MA's), (102, 7826), (105, 7829), (129, 7880), (131, 7883), (163, 7970), (164, 7973), (207, 8087), (215, 8111),

Gene: Nibbles_14 Start: 8446, Stop: 8850, Start Num: 49
Candidate Starts for Nibbles_14:
(Start: 49 @8446 has 72 MA's), (74, 8494), (116, 8575), (134, 8614), (144, 8641), (160, 8689), (187, 8755),

Gene: Niblet_12 Start: 8281, Stop: 8721, Start Num: 20
Candidate Starts for Niblet_12:
(Start: 20 @8281 has 56 MA's), (65, 8371), (69, 8377), (93, 8413), (108, 8431), (109, 8434), (126, 8473), (163, 8566), (175, 8593), (183, 8617), (195, 8653), (208, 8689),

Gene: Nicky22_12 Start: 8359, Stop: 8754, Start Num: 37
Candidate Starts for Nicky22_12:
(Start: 37 @8359 has 52 MA's), (60, 8398), (108, 8455), (131, 8503), (180, 8635), (210, 8728),

Gene: Nina_13 Start: 8556, Stop: 8966, Start Num: 49
Candidate Starts for Nina_13:
(Start: 49 @8556 has 72 MA's), (70, 8598), (74, 8604), (95, 8643), (115, 8685), (139, 8739), (159, 8799),

Gene: Niobe_12 Start: 9019, Stop: 9429, Start Num: 33
Candidate Starts for Niobe_12:
(Start: 33 @9019 has 96 MA's), (71, 9088), (139, 9226), (144, 9238), (188, 9349), (200, 9382),

Gene: Nitro_12 Start: 9042, Stop: 9452, Start Num: 33
Candidate Starts for Nitro_12:
(Start: 33 @9042 has 96 MA's), (57, 9087), (71, 9111), (188, 9372), (200, 9405),

Gene: NoSwimming_13 Start: 9693, Stop: 10082, Start Num: 40
Candidate Starts for NoSwimming_13:
(Start: 40 @9693 has 30 MA's), (57, 9726), (136, 9861), (143, 9879), (186, 9990), (191, 10005),

Gene: Nodigi_14 Start: 8512, Stop: 8916, Start Num: 49
Candidate Starts for Nodigi_14:
(Start: 49 @8512 has 72 MA's), (74, 8560), (95, 8602), (140, 8701), (172, 8791), (188, 8833), (205, 8887), (212, 8911),

Gene: Nubia_14 Start: 10412, Stop: 10822, Start Num: 17
Candidate Starts for Nubia_14:
(Start: 17 @10412 has 76 MA's), (120, 10556), (121, 10565), (123, 10568), (139, 10598), (142, 10604), (150, 10637), (198, 10760), (208, 10784),

Gene: ODay_12 Start: 7116, Stop: 7499, Start Num: 50
Candidate Starts for ODay_12:
(Start: 50 @7116 has 11 MA's), (61, 7131), (88, 7170), (90, 7176), (95, 7188), (104, 7212), (180, 7395), (210, 7485),

Gene: OMalley_10 Start: 7551, Stop: 7982, Start Num: 19
Candidate Starts for OMalley_10:
(Start: 17 @7545 has 76 MA's), (Start: 19 @7551 has 9 MA's), (29, 7572), (78, 7644), (120, 7701), (123, 7713), (129, 7722), (141, 7746), (198, 7905),

Gene: ObLaDi_12 Start: 8416, Stop: 8820, Start Num: 33
Candidate Starts for ObLaDi_12:
(Start: 33 @8416 has 96 MA's), (72, 8485), (141, 8620), (159, 8665), (199, 8779), (208, 8800),

Gene: ObiToo_12 Start: 9222, Stop: 9635, Start Num: 33
Candidate Starts for ObiToo_12:
(Start: 33 @9222 has 96 MA's), (71, 9291), (139, 9429), (144, 9441), (188, 9552), (200, 9585),

Gene: Olliecat_11 Start: 8144, Stop: 8536, Start Num: 33
Candidate Starts for Olliecat_11:
(Start: 33 @8144 has 96 MA's), (Start: 49 @8159 has 72 MA's), (85, 8210), (117, 8258), (121, 8273), (147, 8339), (174, 8402), (178, 8411), (187, 8435), (204, 8492),

Gene: Oppalora_11 Start: 7902, Stop: 8342, Start Num: 20
Candidate Starts for Oppalora_11:
(Start: 20 @7902 has 56 MA's), (Start: 47 @7953 has 1 MA's), (109, 8055), (111, 8058), (126, 8094), (131, 8100), (138, 8115), (163, 8187), (175, 8214), (208, 8313), (210, 8319), (213, 8331),

Gene: Orcanus_12 Start: 8285, Stop: 8725, Start Num: 20
Candidate Starts for Orcanus_12:
(16, 8273), (Start: 20 @8285 has 56 MA's), (65, 8375), (93, 8417), (108, 8435), (109, 8438), (126, 8477), (163, 8570), (175, 8597), (183, 8621), (195, 8657), (208, 8693),

Gene: Origami_11 Start: 7283, Stop: 7678, Start Num: 33
Candidate Starts for Origami_11:
(Start: 33 @7283 has 96 MA's), (139, 7475),

Gene: Orla_14 Start: 8516, Stop: 8920, Start Num: 49

Candidate Starts for Orla_14:
(Start: 49 @8516 has 72 MA's), (74, 8564), (95, 8606), (140, 8705), (172, 8795), (188, 8837), (205, 8891), (212, 8915),

Gene: OtsoOtso_12 Start: 8336, Stop: 8779, Start Num: 20
Candidate Starts for OtsoOtso_12:
(Start: 20 @8336 has 56 MA's), (65, 8426), (69, 8432), (108, 8486), (109, 8489), (126, 8528), (175, 8648), (183, 8672), (208, 8744), (210, 8750),

Gene: OurGirlNessie_10 Start: 7505, Stop: 7915, Start Num: 17
Candidate Starts for OurGirlNessie_10:
(Start: 17 @7505 has 76 MA's), (85, 7598), (114, 7637), (120, 7652), (141, 7697), (153, 7739), (162, 7760), (198, 7856),

Gene: Oxynfrius_14 Start: 10425, Stop: 10835, Start Num: 17
Candidate Starts for Oxynfrius_14:
(Start: 17 @10425 has 76 MA's), (120, 10569), (121, 10578), (123, 10581), (139, 10611), (142, 10617), (150, 10650), (198, 10773), (208, 10797),

Gene: PFR1_09 Start: 7693, Stop: 8106, Start Num: 56
Candidate Starts for PFR1_09:
(Start: 56 @7693 has 21 MA's), (71, 7720), (79, 7732), (81, 7735), (96, 7771), (99, 7783), (114, 7810), (120, 7825), (129, 7849), (135, 7861), (141, 7882), (157, 7933), (167, 7963), (180, 7996),

Gene: PFR2_09 Start: 7693, Stop: 8106, Start Num: 56
Candidate Starts for PFR2_09:
(Start: 56 @7693 has 21 MA's), (71, 7720), (79, 7732), (81, 7735), (96, 7771), (99, 7783), (114, 7810), (120, 7825), (129, 7849), (135, 7861), (141, 7882), (157, 7933), (167, 7963), (180, 7996),

Gene: PandaPo_12 Start: 9018, Stop: 9434, Start Num: 33
Candidate Starts for PandaPo_12:
(Start: 33 @9018 has 96 MA's), (60, 9066), (142, 9234),

Gene: PartyCup_14 Start: 10446, Stop: 10856, Start Num: 17
Candidate Starts for PartyCup_14:
(Start: 17 @10446 has 76 MA's), (Start: 49 @10488 has 72 MA's), (120, 10590), (198, 10794),

Gene: PastaFagioli_11 Start: 7991, Stop: 8389, Start Num: 39
Candidate Starts for PastaFagioli_11:
(Start: 39 @7991 has 15 MA's), (60, 8030), (167, 8237), (202, 8342),

Gene: Pecas_11 Start: 7912, Stop: 8307, Start Num: 37
Candidate Starts for Pecas_11:
(Start: 37 @7912 has 52 MA's), (60, 7951), (85, 7978), (119, 8029), (131, 8056), (180, 8188), (210, 8281),

Gene: Pelletreau_13 Start: 8491, Stop: 8931, Start Num: 20
Candidate Starts for Pelletreau_13:
(16, 8479), (Start: 20 @8491 has 56 MA's), (65, 8581), (93, 8623), (108, 8641), (109, 8644), (126, 8683), (163, 8776), (175, 8803), (183, 8827), (195, 8863), (208, 8899),

Gene: Percival_11 Start: 9171, Stop: 9593, Start Num: 33
Candidate Starts for Percival_11:

(Start: 33 @9171 has 96 MA's), (90, 9264), (93, 9270), (97, 9285), (139, 9375), (150, 9414), (159, 9432), (204, 9543),

Gene: Periwinkle_12 Start: 7041, Stop: 7433, Start Num: 41
Candidate Starts for Periwinkle_12:
(6, 6912), (12, 6957), (13, 6963), (14, 6969), (Start: 41 @7041 has 32 MA's), (53, 7068), (79, 7107), (83, 7113), (85, 7119), (90, 7131), (110, 7155), (125, 7194), (131, 7200), (136, 7212), (141, 7221), (159, 7272), (163, 7284),

Gene: Phabuloso_12 Start: 7046, Stop: 7438, Start Num: 41
Candidate Starts for Phabuloso_12:
(6, 6917), (12, 6962), (13, 6968), (14, 6974), (18, 6992), (23, 7010), (Start: 41 @7046 has 32 MA's), (53, 7073), (83, 7118), (85, 7124), (90, 7136), (110, 7160), (125, 7199), (131, 7205), (138, 7220), (141, 7226), (159, 7277), (163, 7289), (187, 7343),

Gene: PhigPhack_11 Start: 7940, Stop: 8335, Start Num: 37
Candidate Starts for PhigPhack_11:
(Start: 37 @7940 has 52 MA's), (85, 8006), (131, 8084), (167, 8183), (180, 8216), (210, 8309),

Gene: PhirstandPhine_13 Start: 8497, Stop: 8940, Start Num: 20
Candidate Starts for PhirstandPhine_13:
(Start: 20 @8497 has 56 MA's), (65, 8587), (69, 8593), (108, 8647), (109, 8650), (126, 8689), (175, 8809), (183, 8833), (208, 8905), (210, 8911),

Gene: Phisb_11 Start: 7905, Stop: 8300, Start Num: 37
Candidate Starts for Phisb_11:
(Start: 37 @7905 has 52 MA's), (60, 7944), (85, 7971), (131, 8049), (167, 8148), (180, 8181), (210, 8274),

Gene: Phistory_12 Start: 7030, Stop: 7422, Start Num: 41
Candidate Starts for Phistory_12:
(6, 6901), (12, 6946), (13, 6952), (14, 6958), (18, 6976), (23, 6994), (Start: 41 @7030 has 32 MA's), (53, 7057), (83, 7102), (85, 7108), (90, 7120), (110, 7144), (131, 7189), (138, 7204), (141, 7210), (159, 7261), (163, 7273),

Gene: Phives_13 Start: 10124, Stop: 10537, Start Num: 33
Candidate Starts for Phives_13:
(Start: 33 @10124 has 96 MA's), (57, 10169), (144, 10343), (188, 10454), (200, 10487),

Gene: PhluffyCoco_11 Start: 7902, Stop: 8342, Start Num: 20
Candidate Starts for PhluffyCoco_11:
(Start: 20 @7902 has 56 MA's), (Start: 47 @7953 has 1 MA's), (109, 8055), (111, 8058), (126, 8094), (131, 8100), (138, 8115), (163, 8187), (175, 8214), (208, 8313), (210, 8319), (213, 8331),

Gene: PhorbesPhlower_11 Start: 6561, Stop: 6944, Start Num: 50
Candidate Starts for PhorbesPhlower_11:
(Start: 50 @6561 has 11 MA's), (88, 6615), (90, 6621), (95, 6633), (104, 6657), (135, 6717), (178, 6834), (180, 6840), (210, 6930),

Gene: Pigu_10 Start: 7154, Stop: 7531, Start Num: 40
Candidate Starts for Pigu_10:
(Start: 40 @7154 has 30 MA's), (76, 7211), (90, 7229), (125, 7295), (136, 7316), (139, 7322), (178, 7424), (191, 7460), (202, 7493),

Gene: Pineda_13 Start: 8497, Stop: 8940, Start Num: 20
Candidate Starts for Pineda_13:
(Start: 20 @8497 has 56 MA's), (65, 8587), (69, 8593), (108, 8647), (109, 8650), (126, 8689), (175, 8809), (183, 8833), (208, 8905), (210, 8911),

Gene: PinkFriday_10 Start: 7548, Stop: 7982, Start Num: 17
Candidate Starts for PinkFriday_10:
(Start: 17 @7548 has 76 MA's), (Start: 19 @7554 has 9 MA's), (114, 7686), (120, 7701), (123, 7713), (129, 7722), (131, 7725), (141, 7746), (198, 7905),

Gene: PitaDog_10 Start: 7505, Stop: 7915, Start Num: 17
Candidate Starts for PitaDog_10:
(Start: 17 @7505 has 76 MA's), (85, 7598), (114, 7637), (120, 7652), (141, 7697), (153, 7739), (162, 7760), (198, 7856),

Gene: Pixelle_12 Start: 9067, Stop: 9480, Start Num: 33
Candidate Starts for Pixelle_12:
(Start: 33 @9067 has 96 MA's), (57, 9112), (188, 9397), (200, 9430),

Gene: Polka_12 Start: 8336, Stop: 8779, Start Num: 20
Candidate Starts for Polka_12:
(Start: 20 @8336 has 56 MA's), (65, 8426), (69, 8432), (108, 8486), (109, 8489), (126, 8528), (175, 8648), (183, 8672), (208, 8744), (210, 8750),

Gene: Pollux_13 Start: 8269, Stop: 8655, Start Num: 56
Candidate Starts for Pollux_13:
(Start: 56 @8269 has 21 MA's), (92, 8326),

Gene: PondAmelia_12 Start: 8160, Stop: 8555, Start Num: 37
Candidate Starts for PondAmelia_12:
(5, 8034), (Start: 37 @8160 has 52 MA's), (Start: 41 @8163 has 32 MA's), (77, 8223), (85, 8226), (187, 8454), (195, 8487), (202, 8508),

Gene: Pons_12 Start: 7296, Stop: 7706, Start Num: 49
Candidate Starts for Pons_12:
(Start: 49 @7296 has 72 MA's), (74, 7341), (95, 7380), (114, 7419), (119, 7431), (145, 7500), (187, 7605), (210, 7680),

Gene: Posh_13 Start: 8263, Stop: 8655, Start Num: 56
Candidate Starts for Posh_13:
(Start: 19 @8182 has 9 MA's), (Start: 56 @8263 has 21 MA's),

Gene: PotPie_12 Start: 8147, Stop: 8557, Start Num: 49
Candidate Starts for PotPie_12:
(Start: 49 @8147 has 72 MA's), (74, 8192), (95, 8231), (114, 8270), (119, 8282), (145, 8351), (187, 8456), (210, 8531),

Gene: Potatoes_14 Start: 10423, Stop: 10836, Start Num: 17
Candidate Starts for Potatoes_14:
(Start: 17 @10423 has 76 MA's), (114, 10558), (120, 10573), (141, 10618), (153, 10660), (198, 10777),

Gene: Powerpuff_12 Start: 9090, Stop: 9503, Start Num: 33

Candidate Starts for Powerpuff_12:
(Start: 33 @9090 has 96 MA's), (71, 9159), (144, 9309), (188, 9420), (200, 9453),

Gene: PrairieDogTown_12 Start: 8746, Stop: 9135, Start Num: 40
Candidate Starts for PrairieDogTown_12:
(Start: 40 @8746 has 30 MA's), (125, 8893), (153, 8959), (159, 8971),

Gene: Preamble_10 Start: 7515, Stop: 7925, Start Num: 17
Candidate Starts for Preamble_10:
(Start: 17 @7515 has 76 MA's), (114, 7647), (120, 7662), (142, 7710), (198, 7866),

Gene: PsychoKiller_12 Start: 7522, Stop: 7932, Start Num: 49
Candidate Starts for PsychoKiller_12:
(Start: 49 @7522 has 72 MA's), (70, 7564), (74, 7570), (95, 7609), (115, 7651), (139, 7705), (159, 7765),

Gene: Pterodactyl_10 Start: 7506, Stop: 7916, Start Num: 17
Candidate Starts for Pterodactyl_10:
(Start: 17 @7506 has 76 MA's), (85, 7599), (114, 7638), (120, 7653), (141, 7698), (153, 7740), (162, 7761), (198, 7857),

Gene: Pumancara_10 Start: 7547, Stop: 7981, Start Num: 17
Candidate Starts for Pumancara_10:
(Start: 17 @7547 has 76 MA's), (Start: 19 @7553 has 9 MA's), (114, 7685), (120, 7700), (123, 7712), (129, 7721), (131, 7724), (141, 7745), (198, 7904),

Gene: Pumpkins_12 Start: 9144, Stop: 9557, Start Num: 33
Candidate Starts for Pumpkins_12:
(Start: 33 @9144 has 96 MA's), (71, 9213), (188, 9474), (200, 9507),

Gene: Pytheas_13 Start: 8116, Stop: 8502, Start Num: 56
Candidate Starts for Pytheas_13:
(Start: 19 @8035 has 9 MA's), (Start: 56 @8116 has 21 MA's), (80, 8152), (92, 8173),

Gene: QMacho_12 Start: 8395, Stop: 8790, Start Num: 37
Candidate Starts for QMacho_12:
(Start: 37 @8395 has 52 MA's), (60, 8434), (85, 8461), (119, 8512), (131, 8539), (167, 8638), (180, 8671), (210, 8764),

Gene: Quasar_12 Start: 8131, Stop: 8541, Start Num: 49
Candidate Starts for Quasar_12:
(Start: 49 @8131 has 72 MA's), (70, 8173), (74, 8179), (95, 8218), (115, 8260), (139, 8314), (159, 8374),

Gene: Quenya_12 Start: 8046, Stop: 8447, Start Num: 39
Candidate Starts for Quenya_12:
(Start: 39 @8046 has 15 MA's), (131, 8196), (179, 8325), (180, 8328), (187, 8346), (195, 8379),

Gene: RADical_13 Start: 7523, Stop: 7933, Start Num: 49
Candidate Starts for RADical_13:
(Start: 49 @7523 has 72 MA's), (70, 7565), (74, 7571), (95, 7610), (115, 7652), (139, 7706), (159, 7766),

Gene: RAP15_14 Start: 10429, Stop: 10842, Start Num: 17
Candidate Starts for RAP15_14:
(Start: 17 @10429 has 76 MA's), (114, 10564), (120, 10579), (141, 10624), (153, 10666), (198, 10783),

Gene: REQ2_11 Start: 7293, Stop: 7724, Start Num: 30
Candidate Starts for REQ2_11:
(Start: 30 @7293 has 1 MA's), (36, 7305), (53, 7338), (57, 7344), (59, 7347), (109, 7425), (136, 7485), (159, 7554), (185, 7626),

Gene: RSchmailzl_13 Start: 7663, Stop: 8073, Start Num: 49
Candidate Starts for RSchmailzl_13:
(Start: 49 @7663 has 72 MA's), (70, 7705), (74, 7711), (95, 7750), (115, 7792), (139, 7846), (159, 7906),

Gene: RanchParmCat_15 Start: 8228, Stop: 8632, Start Num: 49
Candidate Starts for RanchParmCat_15:
(Start: 49 @8228 has 72 MA's), (58, 8249), (60, 8252), (70, 8270), (95, 8318), (98, 8330), (101, 8339), (140, 8417), (154, 8462), (188, 8549), (212, 8627),

Gene: Rattail_11 Start: 7953, Stop: 8393, Start Num: 20
Candidate Starts for Rattail_11:
(Start: 20 @7953 has 56 MA's), (109, 8106), (111, 8109), (126, 8145), (131, 8151), (138, 8166), (163, 8238), (175, 8265), (208, 8364), (210, 8370), (213, 8382),

Gene: Raya_11 Start: 6626, Stop: 6949, Start Num: 85
Candidate Starts for Raya_11:
(10, 6467), (Start: 35 @6551 has 7 MA's), (63, 6602), (73, 6614), (85, 6626), (90, 6638), (114, 6665), (131, 6704), (139, 6722), (169, 6809), (183, 6839), (190, 6860),

Gene: RcigaStruga_14 Start: 10433, Stop: 10843, Start Num: 17
Candidate Starts for RcigaStruga_14:
(Start: 17 @10433 has 76 MA's), (120, 10577), (121, 10586), (123, 10589), (139, 10619), (142, 10625), (150, 10658), (198, 10781), (208, 10805),

Gene: RedBaron_14 Start: 7567, Stop: 7977, Start Num: 49
Candidate Starts for RedBaron_14:
(Start: 49 @7567 has 72 MA's), (70, 7609), (74, 7615), (95, 7654), (115, 7696), (139, 7750), (159, 7810),

Gene: RedFox_11 Start: 7902, Stop: 8342, Start Num: 20
Candidate Starts for RedFox_11:
(Start: 20 @7902 has 56 MA's), (Start: 47 @7953 has 1 MA's), (109, 8055), (111, 8058), (126, 8094), (131, 8100), (138, 8115), (163, 8187), (175, 8214), (208, 8313), (210, 8319), (213, 8331),

Gene: Reedo_12 Start: 9091, Stop: 9489, Start Num: 38
Candidate Starts for Reedo_12:
(Start: 38 @9091 has 2 MA's), (139, 9286), (142, 9292), (162, 9352), (200, 9442),

Gene: Renna12_12 Start: 8102, Stop: 8545, Start Num: 20
Candidate Starts for Renna12_12:
(Start: 20 @8102 has 56 MA's), (109, 8255), (111, 8258), (126, 8294), (131, 8300), (163, 8387), (175, 8414), (183, 8438), (210, 8519), (213, 8531),

Gene: Riovina_10 Start: 7551, Stop: 7982, Start Num: 19
Candidate Starts for Riovina_10:
(Start: 17 @7545 has 76 MA's), (Start: 19 @7551 has 9 MA's), (29, 7572), (78, 7644), (120, 7701), (123, 7713), (129, 7722), (141, 7746), (198, 7905),

Gene: Riverdale_14 Start: 10360, Stop: 10773, Start Num: 17
Candidate Starts for Riverdale_14:
(Start: 17 @10360 has 76 MA's), (114, 10495), (120, 10510), (141, 10555), (153, 10597), (198, 10714),

Gene: Roberts_13 Start: 7727, Stop: 8119, Start Num: 40
Candidate Starts for Roberts_13:
(Start: 40 @7727 has 30 MA's), (102, 7826), (105, 7829), (129, 7880), (131, 7883), (163, 7970), (164, 7973), (207, 8087), (215, 8111),

Gene: RockScotty_12 Start: 8547, Stop: 8966, Start Num: 33
Candidate Starts for RockScotty_12:
(Start: 33 @8547 has 96 MA's), (54, 8589), (183, 8871),

Gene: Rollins_10 Start: 7752, Stop: 8141, Start Num: 41
Candidate Starts for Rollins_10:
(Start: 41 @7752 has 32 MA's), (131, 7893), (139, 7911), (193, 8064), (195, 8073), (204, 8097), (213, 8127),

Gene: Rona_11 Start: 8141, Stop: 8542, Start Num: 39
Candidate Starts for Rona_11:
(Start: 39 @8141 has 15 MA's), (131, 8291), (173, 8405), (195, 8474),

Gene: Ronaldo_47 Start: 17508, Stop: 17888, Start Num: 22
Candidate Starts for Ronaldo_47:
(Start: 22 @17508 has 6 MA's), (Start: 41 @17547 has 32 MA's), (Start: 52 @17571 has 7 MA's), (91, 17628), (116, 17685), (137, 17733), (154, 17787),

Gene: Rooter_10 Start: 7146, Stop: 7523, Start Num: 40
Candidate Starts for Rooter_10:
(Start: 40 @7146 has 30 MA's), (116, 7260), (125, 7287), (136, 7308), (176, 7410), (178, 7416), (191, 7452), (202, 7485),

Gene: Rowa_11 Start: 7599, Stop: 8018, Start Num: 19
Candidate Starts for Rowa_11:
(Start: 19 @7599 has 9 MA's), (Start: 20 @7602 has 56 MA's), (Start: 28 @7620 has 2 MA's), (Start: 50 @7659 has 11 MA's), (90, 7710), (164, 7863), (167, 7872), (187, 7917), (190, 7929), (214, 8004),

Gene: Rozby_14 Start: 10360, Stop: 10773, Start Num: 17
Candidate Starts for Rozby_14:
(Start: 17 @10360 has 76 MA's), (114, 10495), (120, 10510), (141, 10555), (153, 10597), (198, 10714),

Gene: Ruchi_12 Start: 8591, Stop: 9034, Start Num: 20
Candidate Starts for Ruchi_12:
(Start: 20 @8591 has 56 MA's), (Start: 41 @8633 has 32 MA's), (Start: 50 @8651 has 11 MA's), (69, 8687), (108, 8741), (109, 8744), (126, 8783), (146, 8837), (163, 8876), (175, 8903), (183, 8927), (185, 8933),

Gene: SPB78_12 Start: 8026, Stop: 8427, Start Num: 30

Candidate Starts for SPB78_12:
(Start: 28 @8023 has 2 MA's), (Start: 30 @8026 has 1 MA's), (73, 8104), (77, 8110), (90, 8128), (114, 8155), (159, 8269),

Gene: Sabourin_12 Start: 8456, Stop: 8875, Start Num: 33
Candidate Starts for Sabourin_12:
(Start: 33 @8456 has 96 MA's), (54, 8498), (183, 8780),

Gene: Salvus_15 Start: 9275, Stop: 9649, Start Num: 86
Candidate Starts for Salvus_15:
(51, 9212), (Start: 52 @9215 has 7 MA's), (80, 9263), (86, 9275), (94, 9296), (95, 9302), (122, 9374), (131, 9389), (151, 9455), (157, 9467), (164, 9485), (182, 9530), (200, 9593),

Gene: Samy_16 Start: 9509, Stop: 9874, Start Num: 47
Candidate Starts for Samy_16:
(Start: 47 @9509 has 1 MA's), (136, 9665), (163, 9734), (171, 9755), (208, 9854),

Gene: SanaSana_12 Start: 8160, Stop: 8555, Start Num: 37
Candidate Starts for SanaSana_12:
(5, 8034), (Start: 37 @8160 has 52 MA's), (Start: 41 @8163 has 32 MA's), (77, 8223), (187, 8454), (195, 8487), (202, 8508),

Gene: SansAfet_11 Start: 7922, Stop: 8317, Start Num: 37
Candidate Starts for SansAfet_11:
(5, 7796), (Start: 37 @7922 has 52 MA's), (60, 7961), (85, 7988), (131, 8066), (167, 8165), (180, 8198), (210, 8291),

Gene: SarBear_11 Start: 7888, Stop: 8283, Start Num: 37
Candidate Starts for SarBear_11:
(5, 7762), (Start: 37 @7888 has 52 MA's), (60, 7927), (85, 7954), (131, 8032), (180, 8164), (210, 8257),

Gene: Sarge_11 Start: 7513, Stop: 7890, Start Num: 40
Candidate Starts for Sarge_11:
(Start: 40 @7513 has 30 MA's), (116, 7627), (125, 7654), (136, 7675), (176, 7777), (178, 7783), (191, 7819), (202, 7852),

Gene: Savage2526_14 Start: 10423, Stop: 10836, Start Num: 17
Candidate Starts for Savage2526_14:
(Start: 17 @10423 has 76 MA's), (114, 10558), (120, 10573), (141, 10618), (153, 10660), (198, 10777),

Gene: Schaffner_12 Start: 9132, Stop: 9545, Start Num: 33
Candidate Starts for Schaffner_12:
(Start: 33 @9132 has 96 MA's), (71, 9201), (188, 9462), (200, 9495),

Gene: Scotia_13 Start: 9699, Stop: 10088, Start Num: 40
Candidate Starts for Scotia_13:
(Start: 40 @9699 has 30 MA's), (57, 9732), (136, 9867), (143, 9885), (186, 9996), (191, 10011),

Gene: Scuttle_14 Start: 10429, Stop: 10842, Start Num: 17
Candidate Starts for Scuttle_14:
(Start: 17 @10429 has 76 MA's), (114, 10564), (120, 10579), (141, 10624), (153, 10666), (198, 10783),

Gene: Sergei_10 Start: 7547, Stop: 7984, Start Num: 17

Candidate Starts for Sergei_10:
(Start: 17 @7547 has 76 MA's), (Start: 19 @7553 has 9 MA's), (46, 7592), (48, 7595), (114, 7688), (120, 7703), (123, 7715), (129, 7724), (131, 7727), (141, 7748), (198, 7907),

Gene: ShakeItOph_11 Start: 7286, Stop: 7681, Start Num: 33
Candidate Starts for ShakeItOph_11:
(Start: 33 @7286 has 96 MA's), (139, 7478),

Gene: Shambre1_12 Start: 8782, Stop: 9204, Start Num: 37
Candidate Starts for Shambre1_12:
(Start: 37 @8782 has 52 MA's), (62, 8827), (67, 8836), (192, 9097), (213, 9163), (217, 9181),

Gene: Sharkboy_11 Start: 8140, Stop: 8541, Start Num: 39
Candidate Starts for Sharkboy_11:
(Start: 39 @8140 has 15 MA's), (131, 8290), (173, 8404), (195, 8473),

Gene: ShawBrad_12 Start: 7046, Stop: 7456, Start Num: 41
Candidate Starts for ShawBrad_12:
(6, 6917), (12, 6962), (13, 6968), (14, 6974), (18, 6992), (Start: 41 @7046 has 32 MA's), (53, 7073), (83, 7118), (85, 7124), (110, 7178), (125, 7217), (131, 7223), (141, 7244), (159, 7295), (163, 7307),

Gene: Shayna_10 Start: 7746, Stop: 8147, Start Num: 33
Candidate Starts for Shayna_10:
(Start: 33 @7746 has 96 MA's), (120, 7875), (139, 7917), (153, 7962), (183, 8037), (195, 8079), (204, 8103),

Gene: SheckWes_11 Start: 7284, Stop: 7694, Start Num: 49
Candidate Starts for SheckWes_11:
(Start: 49 @7284 has 72 MA's), (74, 7329), (95, 7368), (114, 7407), (119, 7419), (145, 7488), (187, 7593), (210, 7668),

Gene: Shen_13 Start: 8492, Stop: 8932, Start Num: 20
Candidate Starts for Shen_13:
(16, 8480), (Start: 20 @8492 has 56 MA's), (65, 8582), (93, 8624), (108, 8642), (109, 8645), (126, 8684), (163, 8777), (175, 8804), (183, 8828), (195, 8864), (208, 8900),

Gene: Shoya_10 Start: 7149, Stop: 7526, Start Num: 40
Candidate Starts for Shoya_10:
(Start: 40 @7149 has 30 MA's), (116, 7263), (125, 7290), (136, 7311), (178, 7419), (191, 7455), (202, 7488),

Gene: SilverChicken_13 Start: 7213, Stop: 7617, Start Num: 52
Candidate Starts for SilverChicken_13:
(Start: 52 @7213 has 7 MA's), (70, 7246), (98, 7306), (128, 7372), (170, 7492), (177, 7504), (190, 7540), (197, 7570),

Gene: Simpson_13 Start: 9040, Stop: 9453, Start Num: 33
Candidate Starts for Simpson_13:
(Start: 33 @9040 has 96 MA's), (71, 9109), (144, 9259), (188, 9370), (200, 9403),

Gene: SirBeanington_11 Start: 7914, Stop: 8309, Start Num: 37
Candidate Starts for SirBeanington_11:

(5, 7788), (Start: 37 @7914 has 52 MA's), (60, 7953), (85, 7980), (131, 8058), (167, 8157), (180, 8190), (210, 8283),

Gene: Skelbel_12 Start: 9019, Stop: 9429, Start Num: 33
Candidate Starts for Skelbel_12:
(Start: 33 @9019 has 96 MA's), (71, 9088), (139, 9226), (144, 9238), (188, 9349), (200, 9382),

Gene: SketchMex_11 Start: 7506, Stop: 7916, Start Num: 49
Candidate Starts for SketchMex_11:
(Start: 49 @7506 has 72 MA's), (70, 7548), (74, 7554), (95, 7593), (115, 7635), (139, 7689), (154, 7737), (159, 7749),

Gene: Skyerus_11 Start: 6551, Stop: 6949, Start Num: 35
Candidate Starts for Skyerus_11:
(10, 6467), (Start: 35 @6551 has 7 MA's), (63, 6602), (73, 6614), (85, 6626), (90, 6638), (114, 6665), (131, 6704), (139, 6722), (169, 6809), (183, 6839), (190, 6860),

Gene: Skylord_10 Start: 7692, Stop: 8081, Start Num: 41
Candidate Starts for Skylord_10:
(Start: 41 @7692 has 32 MA's), (131, 7833), (139, 7851), (193, 8004), (195, 8013), (204, 8037), (213, 8067),

Gene: Slay_11 Start: 8364, Stop: 8759, Start Num: 37
Candidate Starts for Slay_11:
(5, 8238), (Start: 37 @8364 has 52 MA's), (60, 8403), (85, 8430), (131, 8508), (180, 8640), (210, 8733),

Gene: Sleepyhead_12 Start: 7869, Stop: 8279, Start Num: 133
Candidate Starts for Sleepyhead_12:
(118, 7833), (Start: 133 @7869 has 1 MA's), (166, 7962), (181, 8004), (196, 8061), (201, 8070), (206, 8082), (216, 8124),

Gene: Snek_12 Start: 8127, Stop: 8540, Start Num: 33
Candidate Starts for Snek_12:
(Start: 33 @8127 has 96 MA's), (114, 8280), (211, 8523),

Gene: Socotra_13 Start: 7522, Stop: 7932, Start Num: 49
Candidate Starts for Socotra_13:
(Start: 49 @7522 has 72 MA's), (70, 7564), (74, 7570), (95, 7609), (115, 7651), (139, 7705), (159, 7765),

Gene: Softsoap_11 Start: 7911, Stop: 8306, Start Num: 37
Candidate Starts for Softsoap_11:
(5, 7785), (Start: 37 @7911 has 52 MA's), (60, 7950), (85, 7977), (131, 8055), (167, 8154), (180, 8187), (210, 8280),

Gene: Solea_12 Start: 8297, Stop: 8692, Start Num: 37
Candidate Starts for Solea_12:
(5, 8171), (Start: 37 @8297 has 52 MA's), (60, 8336), (85, 8363), (131, 8441), (167, 8540), (180, 8573), (210, 8666),

Gene: Soondubu_11 Start: 8928, Stop: 9338, Start Num: 34
Candidate Starts for Soondubu_11:
(Start: 34 @8928 has 10 MA's), (93, 9030), (200, 9291),

Gene: Sooty_12 Start: 8457, Stop: 8876, Start Num: 33
Candidate Starts for Sooty_12:
(Start: 33 @8457 has 96 MA's), (54, 8499), (183, 8781),

Gene: Sopespian_12 Start: 7522, Stop: 7932, Start Num: 49
Candidate Starts for Sopespian_12:
(Start: 49 @7522 has 72 MA's), (70, 7564), (74, 7570), (95, 7609), (115, 7651), (139, 7705), (159, 7765),

Gene: Soul22_13 Start: 7212, Stop: 7616, Start Num: 52
Candidate Starts for Soul22_13:
(Start: 52 @7212 has 7 MA's), (70, 7245), (98, 7305), (128, 7371), (170, 7491), (177, 7503), (190, 7539), (197, 7569),

Gene: Spartoi_10 Start: 6599, Stop: 7030, Start Num: 43
Candidate Starts for Spartoi_10:
(Start: 43 @6599 has 1 MA's), (60, 6635), (81, 6668), (84, 6674), (90, 6689), (136, 6785),

Gene: SpecialK_12 Start: 8454, Stop: 8873, Start Num: 33
Candidate Starts for SpecialK_12:
(Start: 33 @8454 has 96 MA's), (54, 8496), (183, 8778),

Gene: Spooky_12 Start: 7039, Stop: 7449, Start Num: 41
Candidate Starts for Spooky_12:
(12, 6955), (13, 6961), (14, 6967), (Start: 41 @7039 has 32 MA's), (83, 7111), (85, 7117), (90, 7129), (110, 7171), (125, 7210), (131, 7216), (141, 7237), (153, 7276), (163, 7300), (187, 7354),

Gene: Squiddly_13 Start: 7726, Stop: 8118, Start Num: 41
Candidate Starts for Squiddly_13:
(6, 7597), (12, 7642), (13, 7648), (14, 7654), (18, 7672), (23, 7690), (Start: 41 @7726 has 32 MA's), (53, 7753), (83, 7798), (85, 7804), (90, 7816), (110, 7840), (131, 7885), (138, 7900), (141, 7906), (159, 7957), (163, 7969),

Gene: Squircle_11 Start: 8143, Stop: 8535, Start Num: 33
Candidate Starts for Squircle_11:
(Start: 33 @8143 has 96 MA's), (Start: 49 @8158 has 72 MA's), (85, 8209), (117, 8257), (121, 8272), (147, 8338), (174, 8401), (178, 8410), (187, 8434), (204, 8491),

Gene: Starburst_13 Start: 7522, Stop: 7932, Start Num: 49
Candidate Starts for Starburst_13:
(Start: 49 @7522 has 72 MA's), (70, 7564), (74, 7570), (95, 7609), (115, 7651), (139, 7705), (159, 7765),

Gene: SteamedHams_14 Start: 7535, Stop: 7945, Start Num: 49
Candidate Starts for SteamedHams_14:
(Start: 49 @7535 has 72 MA's), (66, 7571), (70, 7577), (74, 7583), (95, 7622), (115, 7664), (139, 7718), (159, 7778),

Gene: Stellammi_9 Start: 6533, Stop: 6904, Start Num: 49
Candidate Starts for Stellammi_9:
(Start: 49 @6533 has 72 MA's), (75, 6581), (85, 6599), (90, 6611), (120, 6659), (127, 6680), (131, 6683), (153, 6743), (163, 6767), (183, 6809), (204, 6872), (207, 6878),

Gene: Stoor_11 Start: 8157, Stop: 8552, Start Num: 37
Candidate Starts for Stoor_11:
(5, 8031), (Start: 37 @8157 has 52 MA's), (Start: 41 @8160 has 32 MA's), (77, 8220), (187, 8451), (195, 8484), (202, 8505),

Gene: Stromboli_11 Start: 8161, Stop: 8556, Start Num: 37
Candidate Starts for Stromboli_11:
(Start: 37 @8161 has 52 MA's), (Start: 41 @8164 has 32 MA's), (77, 8224), (173, 8419), (187, 8455), (195, 8488), (202, 8509),

Gene: StuartMinion_11 Start: 7928, Stop: 8371, Start Num: 20
Candidate Starts for StuartMinion_11:
(16, 7916), (Start: 20 @7928 has 56 MA's), (77, 8036), (111, 8084), (126, 8120), (131, 8126), (163, 8213), (175, 8240), (208, 8339), (210, 8345), (213, 8357),

Gene: Studio_13 Start: 7486, Stop: 7878, Start Num: 40
Candidate Starts for Studio_13:
(Start: 40 @7486 has 30 MA's), (60, 7525), (62, 7528), (105, 7588), (129, 7639), (131, 7642), (164, 7732), (207, 7846), (215, 7870),

Gene: Stuu_12 Start: 8547, Stop: 8966, Start Num: 33
Candidate Starts for Stuu_12:
(Start: 33 @8547 has 96 MA's), (54, 8589), (142, 8766), (183, 8871),

Gene: SuMoo_10 Start: 7515, Stop: 7928, Start Num: 34
Candidate Starts for SuMoo_10:
(Start: 34 @7515 has 10 MA's),

Gene: Subaru_12 Start: 9019, Stop: 9429, Start Num: 33
Candidate Starts for Subaru_12:
(Start: 33 @9019 has 96 MA's), (71, 9088), (139, 9226), (144, 9238), (188, 9349), (200, 9382),

Gene: Sue2_12 Start: 9043, Stop: 9456, Start Num: 33
Candidate Starts for Sue2_12:
(15, 9007), (Start: 33 @9043 has 96 MA's),

Gene: SummitAcademy_11 Start: 7362, Stop: 7772, Start Num: 49
Candidate Starts for SummitAcademy_11:
(Start: 49 @7362 has 72 MA's), (74, 7407), (95, 7446), (114, 7485), (119, 7497), (145, 7566), (187, 7671), (210, 7746),

Gene: SunnyD_10 Start: 7746, Stop: 8147, Start Num: 33
Candidate Starts for SunnyD_10:
(Start: 33 @7746 has 96 MA's), (120, 7875), (139, 7917), (183, 8037), (195, 8079), (204, 8103),

Gene: Supakev_10 Start: 7553, Stop: 7984, Start Num: 19
Candidate Starts for Supakev_10:
(Start: 17 @7547 has 76 MA's), (Start: 19 @7553 has 9 MA's), (29, 7574), (78, 7646), (123, 7715), (129, 7724), (141, 7748), (198, 7907),

Gene: SuperHands_11 Start: 9343, Stop: 9765, Start Num: 33
Candidate Starts for SuperHands_11:

(Start: 33 @9343 has 96 MA's), (90, 9436), (93, 9442), (97, 9457), (139, 9547), (150, 9586), (159, 9604), (204, 9715),

Gene: Suppi_14 Start: 10446, Stop: 10859, Start Num: 17
Candidate Starts for Suppi_14:
(Start: 17 @10446 has 76 MA's), (Start: 49 @10491 has 72 MA's), (120, 10593), (162, 10701), (198, 10797),

Gene: Survivors_14 Start: 8300, Stop: 8704, Start Num: 49
Candidate Starts for Survivors_14:
(Start: 49 @8300 has 72 MA's), (74, 8348), (116, 8429), (134, 8468), (144, 8495), (160, 8543), (187, 8609),

Gene: SweatNTears_14 Start: 8017, Stop: 8427, Start Num: 49
Candidate Starts for SweatNTears_14:
(Start: 49 @8017 has 72 MA's), (70, 8059), (74, 8065), (95, 8104), (115, 8146), (139, 8200), (154, 8248), (159, 8260),

Gene: Swervy_11 Start: 7888, Stop: 8283, Start Num: 37
Candidate Starts for Swervy_11:
(5, 7762), (Start: 37 @7888 has 52 MA's), (60, 7927), (85, 7954), (131, 8032), (180, 8164), (210, 8257),

Gene: TMaxx_13 Start: 7597, Stop: 7989, Start Num: 40
Candidate Starts for TMaxx_13:
(Start: 40 @7597 has 30 MA's), (105, 7699), (113, 7711), (164, 7843), (215, 7981),

Gene: TPA4_12 Start: 8635, Stop: 9036, Start Num: 41
Candidate Starts for TPA4_12:
(Start: 41 @8635 has 32 MA's), (90, 8719), (96, 8731), (160, 8884), (178, 8923), (188, 8953), (194, 8974), (203, 8998),

Gene: Tallboi_12 Start: 9050, Stop: 9463, Start Num: 33
Candidate Starts for Tallboi_12:
(Start: 33 @9050 has 96 MA's), (57, 9095), (71, 9119), (188, 9380), (200, 9413),

Gene: Tarnish_12 Start: 7661, Stop: 8071, Start Num: 49
Candidate Starts for Tarnish_12:
(Start: 49 @7661 has 72 MA's), (74, 7706), (95, 7745), (114, 7784), (119, 7796), (145, 7865), (187, 7970), (210, 8045),

Gene: TattModd_14 Start: 10423, Stop: 10836, Start Num: 17
Candidate Starts for TattModd_14:
(Start: 17 @10423 has 76 MA's), (114, 10558), (120, 10573), (141, 10618), (153, 10660), (198, 10777),

Gene: TaylorSipht_12 Start: 8370, Stop: 8810, Start Num: 20
Candidate Starts for TaylorSipht_12:
(Start: 20 @8370 has 56 MA's), (36, 8406), (71, 8469), (109, 8523), (111, 8526), (126, 8562), (155, 8634), (160, 8646), (175, 8682), (183, 8706), (195, 8742), (208, 8778),

Gene: Tbone_12 Start: 9033, Stop: 9446, Start Num: 33
Candidate Starts for Tbone_12:
(Start: 33 @9033 has 96 MA's), (71, 9102), (144, 9252), (188, 9363), (200, 9396),

Gene: Teagster_10 Start: 7746, Stop: 8147, Start Num: 33
Candidate Starts for Teagster_10:
(Start: 33 @7746 has 96 MA's), (120, 7875), (139, 7917), (183, 8037), (195, 8079), (204, 8103),

Gene: Temper16_10 Start: 7547, Stop: 7984, Start Num: 17
Candidate Starts for Temper16_10:
(Start: 17 @7547 has 76 MA's), (Start: 19 @7553 has 9 MA's), (46, 7592), (48, 7595), (114, 7688), (120, 7703), (123, 7715), (129, 7724), (131, 7727), (141, 7748), (198, 7907),

Gene: TforTroy_12 Start: 9164, Stop: 9577, Start Num: 33
Candidate Starts for TforTroy_12:
(Start: 33 @9164 has 96 MA's), (188, 9494), (200, 9527),

Gene: ThursdayNight_11 Start: 7530, Stop: 7949, Start Num: 34
Candidate Starts for ThursdayNight_11:
(Start: 34 @7530 has 10 MA's), (62, 7581), (90, 7632), (144, 7752), (200, 7896),

Gene: Tian_12 Start: 9064, Stop: 9477, Start Num: 33
Candidate Starts for Tian_12:
(Start: 33 @9064 has 96 MA's), (57, 9109), (144, 9283), (188, 9394), (200, 9427),

Gene: Toad24_13 Start: 8492, Stop: 8932, Start Num: 20
Candidate Starts for Toad24_13:
(16, 8480), (Start: 20 @8492 has 56 MA's), (65, 8582), (93, 8624), (108, 8642), (109, 8645), (126, 8684), (163, 8777), (175, 8804), (183, 8828), (195, 8864), (208, 8900),

Gene: Tolls_14 Start: 7538, Stop: 7948, Start Num: 49
Candidate Starts for Tolls_14:
(Start: 49 @7538 has 72 MA's), (66, 7574), (70, 7580), (74, 7586), (95, 7625), (115, 7667), (139, 7721), (159, 7781),

Gene: TripleC_16 Start: 11103, Stop: 11495, Start Num: 40
Candidate Starts for TripleC_16:
(Start: 40 @11103 has 30 MA's), (100, 11199), (131, 11259), (162, 11343), (163, 11346), (215, 11487),

Gene: Troje_12 Start: 7491, Stop: 7901, Start Num: 49
Candidate Starts for Troje_12:
(Start: 49 @7491 has 72 MA's), (70, 7533), (74, 7539), (95, 7578), (115, 7620), (139, 7674), (154, 7722), (159, 7734),

Gene: Tuck_13 Start: 10079, Stop: 10489, Start Num: 33
Candidate Starts for Tuck_13:
(Start: 33 @10079 has 96 MA's), (57, 10124), (144, 10298), (188, 10409), (200, 10442),

Gene: TukTuk_11 Start: 7948, Stop: 8343, Start Num: 37
Candidate Starts for TukTuk_11:
(5, 7822), (Start: 37 @7948 has 52 MA's), (60, 7987), (85, 8014), (131, 8092), (180, 8224), (210, 8317),

Gene: Turab_12 Start: 9048, Stop: 9458, Start Num: 33
Candidate Starts for Turab_12:
(Start: 33 @9048 has 96 MA's), (57, 9093), (71, 9117), (188, 9378), (200, 9411),

Gene: Tutumahutu_12 Start: 9090, Stop: 9503, Start Num: 33

Candidate Starts for Tutumahutu_12:
(Start: 33 @9090 has 96 MA's), (71, 9159), (144, 9309), (188, 9420), (200, 9453),

Gene: Tweety19_12 Start: 8126, Stop: 8539, Start Num: 33
Candidate Starts for Tweety19_12:
(Start: 33 @8126 has 96 MA's), (114, 8279), (211, 8522),

Gene: Typha_18 Start: 11997, Stop: 12434, Start Num: 25
Candidate Starts for Typha_18:
(Start: 24 @11994 has 3 MA's), (Start: 25 @11997 has 3 MA's), (69, 12075), (78, 12084), (82, 12090), (85, 12096), (121, 12174), (147, 12240), (163, 12276), (192, 12351), (205, 12390),

Gene: Typhonomachy_12 Start: 7522, Stop: 7932, Start Num: 49
Candidate Starts for Typhonomachy_12:
(Start: 49 @7522 has 72 MA's), (70, 7564), (74, 7570), (95, 7609), (115, 7651), (139, 7705), (159, 7765),

Gene: Urla_10 Start: 7561, Stop: 7974, Start Num: 17
Candidate Starts for Urla_10:
(Start: 17 @7561 has 76 MA's), (114, 7693), (120, 7708), (141, 7753), (142, 7756), (153, 7795), (181, 7855), (198, 7912),

Gene: UtzChips_10 Start: 8204, Stop: 8620, Start Num: 34
Candidate Starts for UtzChips_10:
(Start: 34 @8204 has 10 MA's), (150, 8444), (173, 8501),

Gene: VResidence_12 Start: 9113, Stop: 9535, Start Num: 33
Candidate Starts for VResidence_12:
(Start: 33 @9113 has 96 MA's), (142, 9335), (171, 9422), (184, 9443), (188, 9452),

Gene: VWB_11 Start: 8079, Stop: 8474, Start Num: 31
Candidate Starts for VWB_11:
(26, 8073), (Start: 31 @8079 has 2 MA's), (Start: 41 @8094 has 32 MA's), (77, 8160), (131, 8244), (155, 8310), (210, 8454),

Gene: Vallejo_14 Start: 10361, Stop: 10774, Start Num: 17
Candidate Starts for Vallejo_14:
(Start: 17 @10361 has 76 MA's), (114, 10496), (120, 10511), (141, 10556), (153, 10598), (198, 10715),

Gene: VanLee_13 Start: 8283, Stop: 8678, Start Num: 31
Candidate Starts for VanLee_13:
(Start: 31 @8283 has 2 MA's), (54, 8319), (68, 8343), (76, 8349), (141, 8469), (176, 8559), (189, 8598), (199, 8628),

Gene: Vine_13 Start: 8291, Stop: 8701, Start Num: 49
Candidate Starts for Vine_13:
(Start: 49 @8291 has 72 MA's), (74, 8336), (95, 8375), (114, 8414), (119, 8426), (145, 8495), (187, 8600), (210, 8675),

Gene: Vitas_10 Start: 7692, Stop: 8081, Start Num: 41
Candidate Starts for Vitas_10:
(Start: 41 @7692 has 32 MA's), (131, 7833), (139, 7851), (193, 8004), (195, 8013), (204, 8037), (213, 8067),

Gene: Volt_46 Start: 17508, Stop: 17888, Start Num: 22
Candidate Starts for Volt_46:
(Start: 22 @17508 has 6 MA's), (Start: 41 @17547 has 32 MA's), (Start: 52 @17571 has 7 MA's), (91, 17628), (116, 17685), (137, 17733), (154, 17787),

Gene: VroomVroom_11 Start: 7298, Stop: 7693, Start Num: 33
Candidate Starts for VroomVroom_11:
(Start: 33 @7298 has 96 MA's), (139, 7490),

Gene: Vulpecula_12 Start: 8667, Stop: 9110, Start Num: 20
Candidate Starts for Vulpecula_12:
(Start: 20 @8667 has 56 MA's), (Start: 41 @8709 has 32 MA's), (Start: 50 @8727 has 11 MA's), (69, 8763), (108, 8817), (109, 8820), (126, 8859), (146, 8913), (163, 8952), (175, 8979), (183, 9003), (185, 9009),

Gene: Vulture_10 Start: 7551, Stop: 7982, Start Num: 19
Candidate Starts for Vulture_10:
(Start: 17 @7545 has 76 MA's), (Start: 19 @7551 has 9 MA's), (29, 7572), (78, 7644), (123, 7713), (129, 7722), (141, 7746), (198, 7905),

Gene: WalkingDead_11 Start: 8148, Stop: 8543, Start Num: 37
Candidate Starts for WalkingDead_11:
(Start: 37 @8148 has 52 MA's), (Start: 41 @8151 has 32 MA's), (77, 8211), (85, 8214), (187, 8442), (195, 8475), (202, 8496),

Gene: Wallaby_16 Start: 8445, Stop: 8849, Start Num: 49
Candidate Starts for Wallaby_16:
(Start: 49 @8445 has 72 MA's), (74, 8493), (116, 8574), (134, 8613), (144, 8640), (160, 8688), (187, 8754),

Gene: Warda_12 Start: 9036, Stop: 9449, Start Num: 33
Candidate Starts for Warda_12:
(Start: 33 @9036 has 96 MA's), (71, 9105), (144, 9255), (188, 9366), (200, 9399),

Gene: Wawa_14 Start: 10398, Stop: 10811, Start Num: 17
Candidate Starts for Wawa_14:
(Start: 17 @10398 has 76 MA's), (114, 10533), (120, 10548), (141, 10593), (153, 10635), (198, 10752),

Gene: Wayne_14 Start: 10492, Stop: 10905, Start Num: 17
Candidate Starts for Wayne_14:
(Start: 17 @10492 has 76 MA's), (Start: 49 @10537 has 72 MA's), (120, 10639), (162, 10747), (198, 10843),

Gene: Westrich_13 Start: 8480, Stop: 8920, Start Num: 20
Candidate Starts for Westrich_13:
(16, 8468), (Start: 20 @8480 has 56 MA's), (65, 8570), (93, 8612), (108, 8630), (109, 8633), (126, 8672), (163, 8765), (175, 8792), (183, 8816), (195, 8852), (208, 8888),

Gene: Whack_11 Start: 7277, Stop: 7684, Start Num: 30
Candidate Starts for Whack_11:
(Start: 30 @7277 has 1 MA's), (Start: 33 @7283 has 96 MA's), (57, 7328), (136, 7448), (153, 7505), (159, 7517), (210, 7664),

Gene: Whitney_12 Start: 7041, Stop: 7433, Start Num: 41
Candidate Starts for Whitney_12:
(6, 6912), (12, 6957), (13, 6963), (14, 6969), (18, 6987), (Start: 41 @7041 has 32 MA's), (53, 7068), (79, 7107), (83, 7113), (85, 7119), (90, 7131), (110, 7155), (125, 7194), (131, 7200), (136, 7212), (141, 7221), (159, 7272), (163, 7284),

Gene: Wildwest_13 Start: 9954, Stop: 10370, Start Num: 33
Candidate Starts for Wildwest_13:
(Start: 33 @9954 has 96 MA's), (114, 10107), (142, 10170), (184, 10278),

Gene: WileyE_11 Start: 8002, Stop: 8445, Start Num: 20
Candidate Starts for WileyE_11:
(Start: 20 @8002 has 56 MA's), (Start: 41 @8044 has 32 MA's), (Start: 50 @8062 has 11 MA's), (69, 8098), (108, 8152), (109, 8155), (126, 8194), (146, 8248), (163, 8287), (175, 8314), (183, 8338), (185, 8344),

Gene: Wolfwood_14 Start: 8445, Stop: 8849, Start Num: 49
Candidate Starts for Wolfwood_14:
(Start: 49 @8445 has 72 MA's), (74, 8493), (116, 8574), (134, 8613), (144, 8640), (160, 8688), (187, 8754),

Gene: WonderBoy_10 Start: 7514, Stop: 7924, Start Num: 17
Candidate Starts for WonderBoy_10:
(Start: 17 @7514 has 76 MA's), (57, 7577), (114, 7646), (120, 7661), (141, 7706), (153, 7748), (198, 7865),

Gene: Wrigley_13 Start: 8113, Stop: 8499, Start Num: 56
Candidate Starts for Wrigley_13:
(Start: 19 @8032 has 9 MA's), (Start: 56 @8113 has 21 MA's), (80, 8149), (92, 8170),

Gene: Yakult_13 Start: 7424, Stop: 7828, Start Num: 49
Candidate Starts for Yakult_13:
(8, 7289), (9, 7292), (11, 7319), (Start: 49 @7424 has 72 MA's), (70, 7466), (76, 7475), (78, 7478), (95, 7514), (145, 7634),

Gene: Yang_12 Start: 9134, Stop: 9547, Start Num: 33
Candidate Starts for Yang_12:
(Start: 33 @9134 has 96 MA's), (188, 9464), (200, 9497),

Gene: Yarn_11 Start: 7528, Stop: 7938, Start Num: 49
Candidate Starts for Yarn_11:
(Start: 49 @7528 has 72 MA's), (66, 7564), (70, 7570), (74, 7576), (95, 7615), (115, 7657), (139, 7711), (159, 7771),

Gene: YesChef_12 Start: 9090, Stop: 9503, Start Num: 33
Candidate Starts for YesChef_12:
(Start: 33 @9090 has 96 MA's), (71, 9159), (144, 9309), (188, 9420), (200, 9453),

Gene: Yoshi_13 Start: 7212, Stop: 7616, Start Num: 52
Candidate Starts for Yoshi_13:
(Start: 52 @7212 has 7 MA's), (70, 7245), (98, 7305), (128, 7371), (170, 7491), (177, 7503), (190, 7539), (197, 7569),

Gene: Yucky_12 Start: 8151, Stop: 8561, Start Num: 49
Candidate Starts for Yucky_12:
(Start: 49 @8151 has 72 MA's), (74, 8196), (95, 8235), (114, 8274), (119, 8286), (145, 8355), (187, 8460), (210, 8535),

Gene: Yummy_13 Start: 7404, Stop: 7814, Start Num: 49
Candidate Starts for Yummy_13:
(Start: 49 @7404 has 72 MA's), (74, 7452), (95, 7491), (115, 7533), (139, 7587), (159, 7647),

Gene: Zapner_14 Start: 7737, Stop: 8141, Start Num: 52
Candidate Starts for Zapner_14:
(Start: 52 @7737 has 7 MA's), (70, 7770), (98, 7830), (128, 7896), (170, 8016), (177, 8028), (190, 8064), (197, 8094),

Gene: Zareef_14 Start: 8447, Stop: 8851, Start Num: 49
Candidate Starts for Zareef_14:
(Start: 49 @8447 has 72 MA's), (74, 8495), (116, 8576), (134, 8615), (144, 8642), (160, 8690), (187, 8756),

Gene: Zeta1847_10 Start: 7300, Stop: 7692, Start Num: 32
Candidate Starts for Zeta1847_10:
(Start: 32 @7300 has 1 MA's), (114, 7444), (117, 7453),

Gene: Zhuangyuan_13 Start: 8659, Stop: 9102, Start Num: 20
Candidate Starts for Zhuangyuan_13:
(16, 8647), (Start: 17 @8650 has 76 MA's), (Start: 20 @8659 has 56 MA's), (Start: 47 @8710 has 1 MA's), (71, 8758), (158, 8929), (159, 8932), (183, 8995), (187, 9004), (195, 9034), (213, 9088),

Gene: Ziko_47 Start: 17448, Stop: 17828, Start Num: 22
Candidate Starts for Ziko_47:
(Start: 22 @17448 has 6 MA's), (Start: 41 @17487 has 32 MA's), (Start: 52 @17511 has 7 MA's), (91, 17568), (116, 17625), (137, 17673), (154, 17727),

Gene: Zixiang_12 Start: 8281, Stop: 8721, Start Num: 20
Candidate Starts for Zixiang_12:
(Start: 20 @8281 has 56 MA's), (65, 8371), (69, 8377), (93, 8413), (108, 8431), (109, 8434), (126, 8473), (163, 8566), (175, 8593), (183, 8617), (195, 8653), (208, 8689),

Gene: Zorro_14 Start: 10377, Stop: 10790, Start Num: 17
Candidate Starts for Zorro_14:
(Start: 17 @10377 has 76 MA's), (114, 10512), (120, 10527), (141, 10572), (153, 10614), (198, 10731),