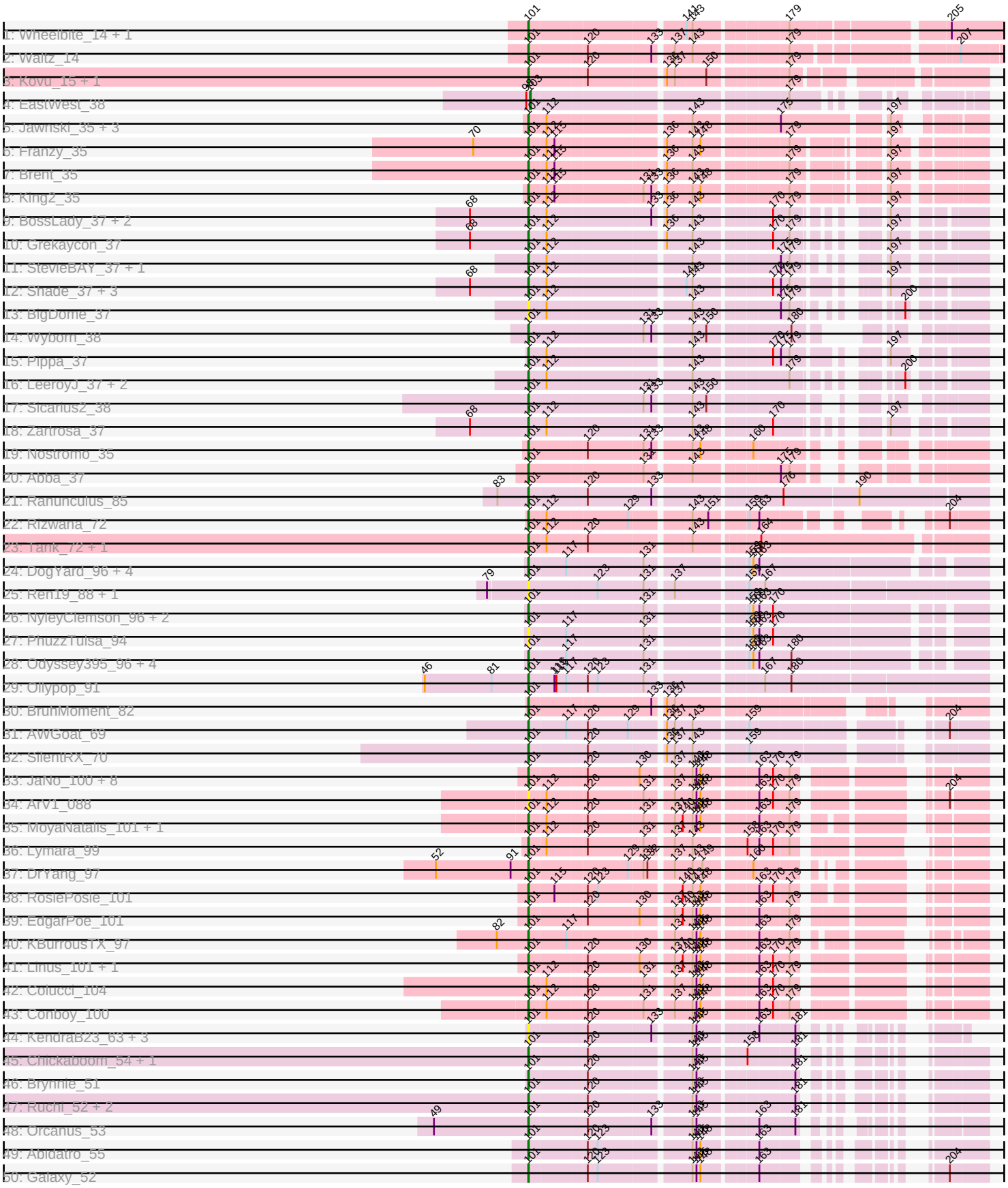
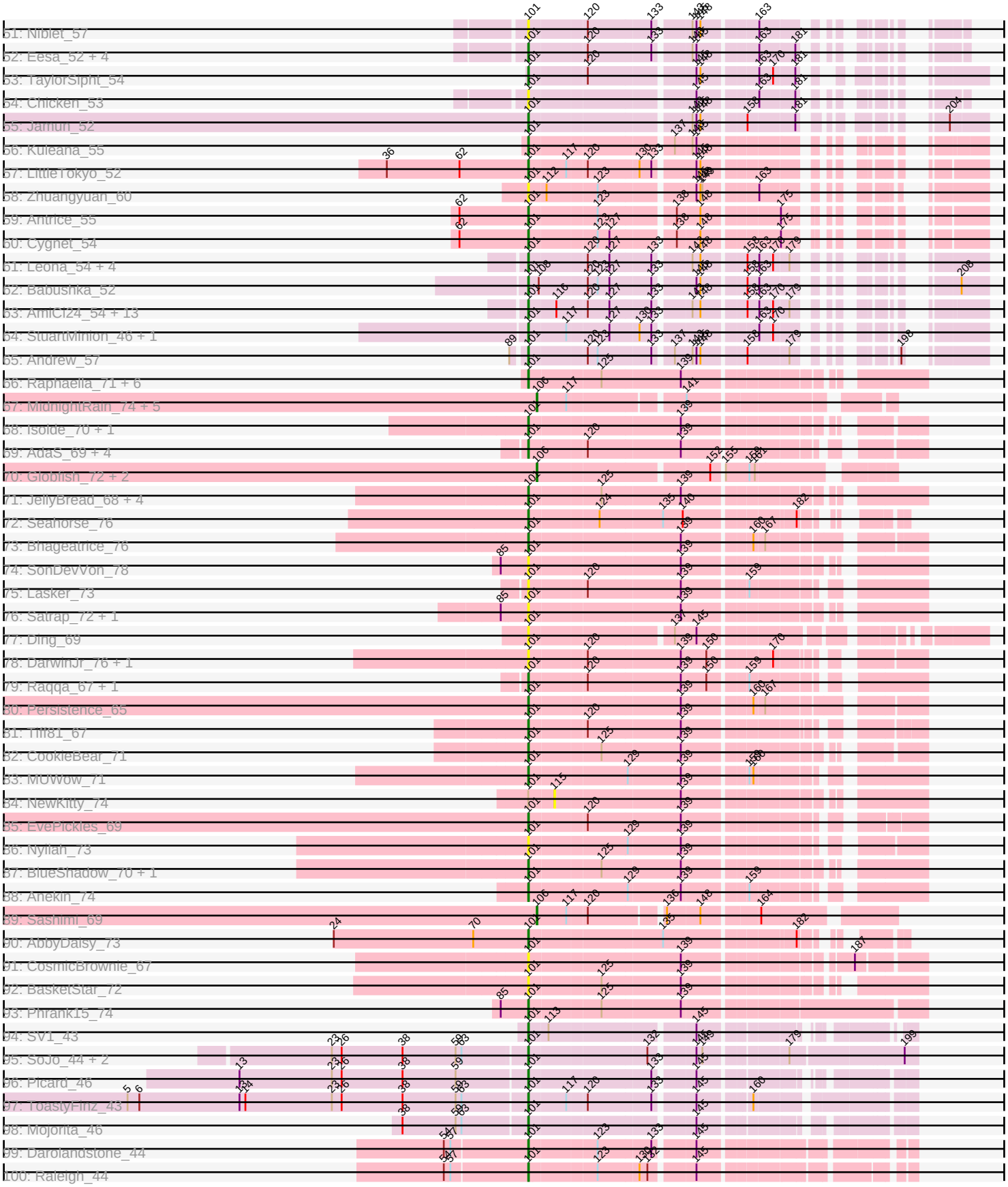
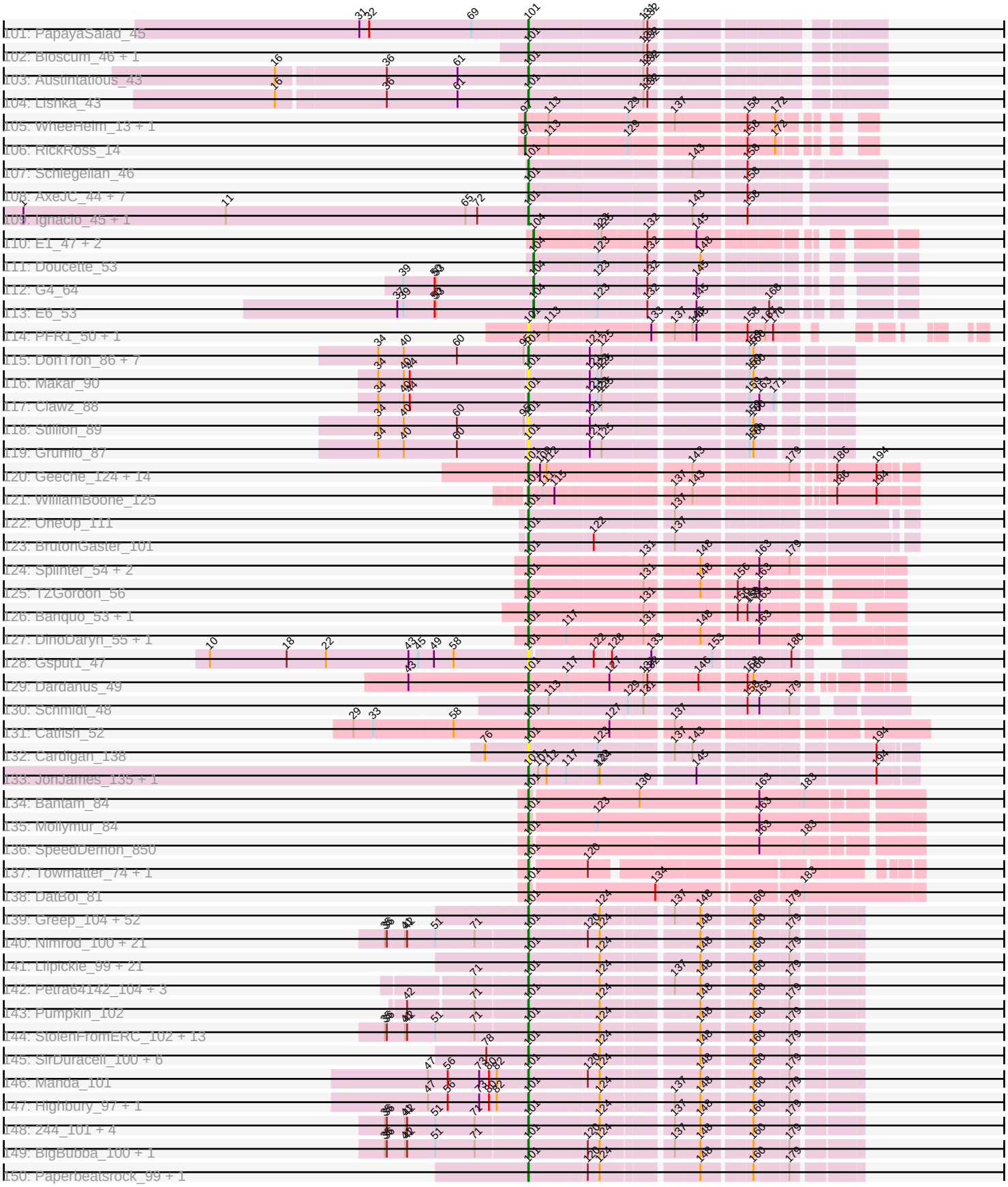
Pham 283346


1: Wheelbite_14 + 1
2: Waltz_14
3: Kovu_15 + 1
4: EastWest_38
5: Jawnski_35 + 3
6: Franzy_35
7: Brent_35
8: King2_35
9: BossLady_37 + 2
10: Grekaycon_37
11: StevieBAY_37 + 1
12: Shade_37 + 3
13: BigDome_37
14: Wyborn_38
15: Pippa_37
16: LeeroyJ_37 + 2
17: Sicarius2_38
18: Zantrosa_37
19: Nostromo_35
20: Abba_37
21: Ranunculus_85
22: Rizwana_72
23: Tank_72 + 1
24: DogYard_96 + 4
25: Ren19_88 + 1
26: NyleyClemson_96 + 2
27: PhuzzTulsa_94
28: Odyssey395_96 + 4
29: Ollypop_91
30: BruhMoment_82
31: AWGoat_69
32: SilentRX_70
33: JaNo_100 + 8
34: ArV1_088
35: MoyaNatalis_101 + 1
36: Lymara_99
37: DrYang_97
38: RosiePosie_101
39: EdgarPoe_101
40: KBurrousTX_97
41: Linus_101 + 1
42: Colucci_104
43: Conboy_100
44: KendraB23_63 + 3
45: Chickaboom_54 + 1
46: Brynnie_51
47: Ruchi_52 + 2
48: Orcanus_53
49: Abidatro_55
50: Galaxy_52

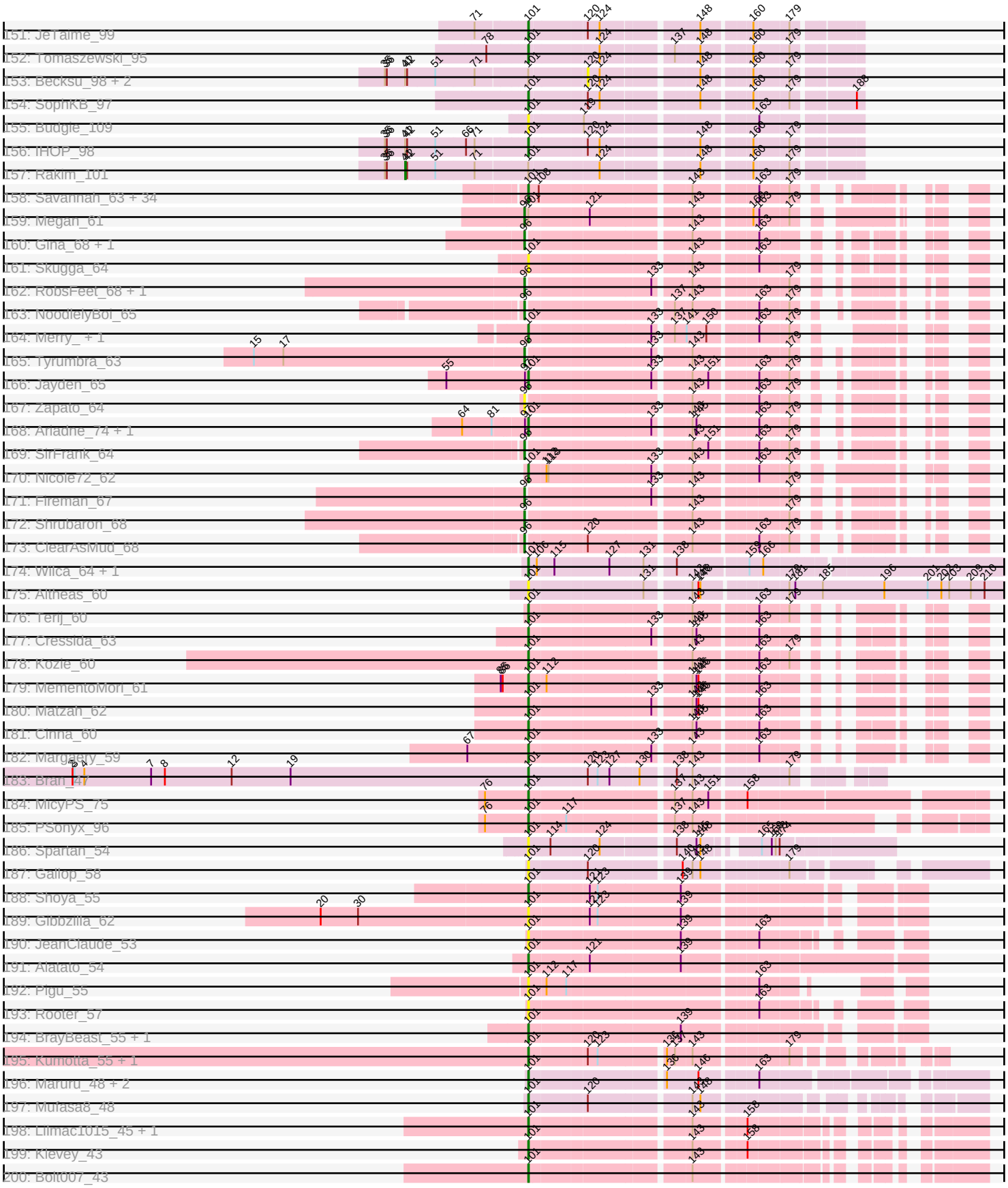
Pham 283346


51: Niblet_57
52: Eesa_52 + 4
53: TaylorSpht_54
54: Chicken_53
55: Jamun_52
56: Kuleana_55
57: LittleTokyo_52
58: Zhuangyuan_60
59: Amrice_55
60: Cygnet_54
61: Leona_54 + 4
62: Babushka_52
63: AmiCi24_54 + 13
64: StuartMinion_46 + 1
65: Andrew_57
66: Raphaella_71 + 6
67: MidnightRain_74 + 5
68: Isolde_70 + 1
69: AdaS_69 + 4
70: Globfish_72 + 2
71: JellyBread_68 + 4
72: Seahorse_76
73: Bhageatrice_76
74: SonDevVon_78
75: Lasker_73
76: Satrap_72 + 1
77: Ding_69
78: DarwinJr_76 + 1
79: Raqqa_67 + 1
80: Persistence_65
81: Tiff81_67
82: CookieBear_71
83: MOWow_71
84: NewKitty_74
85: EvePickles_69
86: Nyllah_73
87: BlueShadow_70 + 1
88: Anekin_74
89: Sashimi_69
90: AbbyDaisy_73
91: CosmicBrownie_67
92: BasketStar_72
93: Phrank15_74
94: SV1_43
95: SoJo_44 + 2
96: Picard_46
97: ToastyFinz_43
98: Mojorita_46
99: Darolandstone_44
100: Raleigh_44

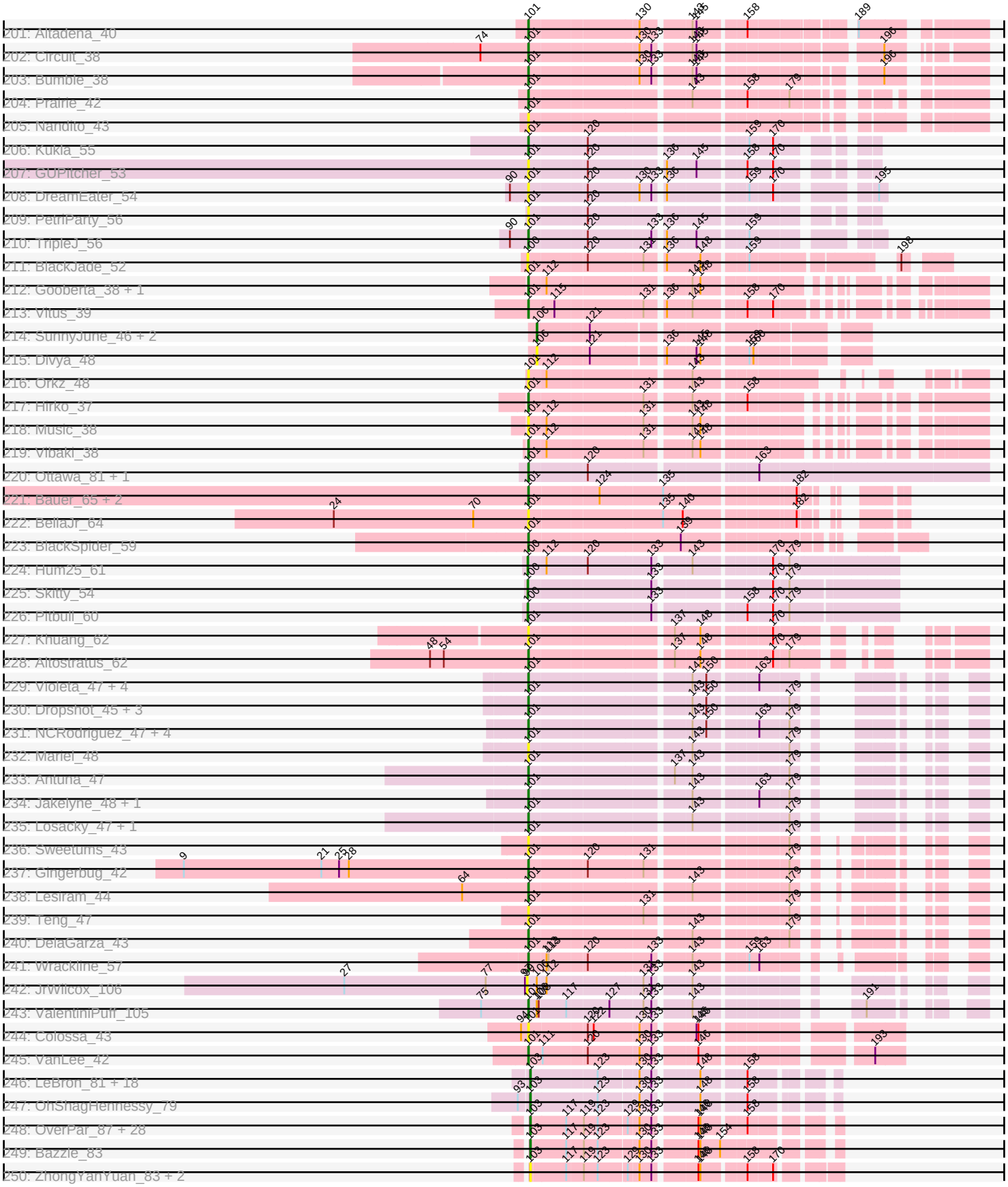
Pham 283346


101: PapayaSalad_45
102: Bioscum_46 + 1
103: Austintatious_43
104: Lishka_43
105: WheeHeim_13 + 1
106: RickRoss_14
107: Schlegelian_46
108: AxeJC_44 + 7
109: Ignacio_45 + 1
110: E1_47 + 2
111: Doucette_53
112: G4_64
113: E6_53
114: PFR1_50 + 1
115: DonTron_86 + 7
116: Makar_90
117: Clawz_88
118: Stillon_89
119: Grumio_87
120: Geeche_124 + 14
121: WilliamBoone_125
122: OneUp_111
123: BrutonGaster_101
124: Splinter_54 + 2
125: TZGordon_56
126: Banquo_53 + 1
127: DinoDaryn_55 + 1
128: Gsputt1_47
129: Dardanus_49
130: Schmidt_48
131: Catfish_52
132: Cardigan_138
133: JonJames_135 + 1
134: Bantam_84
135: Mollymur_84
136: SpeedDemon_850
137: Towmatter_74 + 1
138: DatBoi_81
139: Greep_104 + 52
140: Nimrod_100 + 21
141: Lilpickle_99 + 21
142: Petra64142_104 + 3
143: Pumpkin_102
144: StolenFromERC_102 + 13
145: SirDuracell_100 + 6
146: Manda_101
147: Highbury_97 + 1
148: 244_101 + 4
149: BigBubba_100 + 1
150: Paperbeatsrock_99 + 1

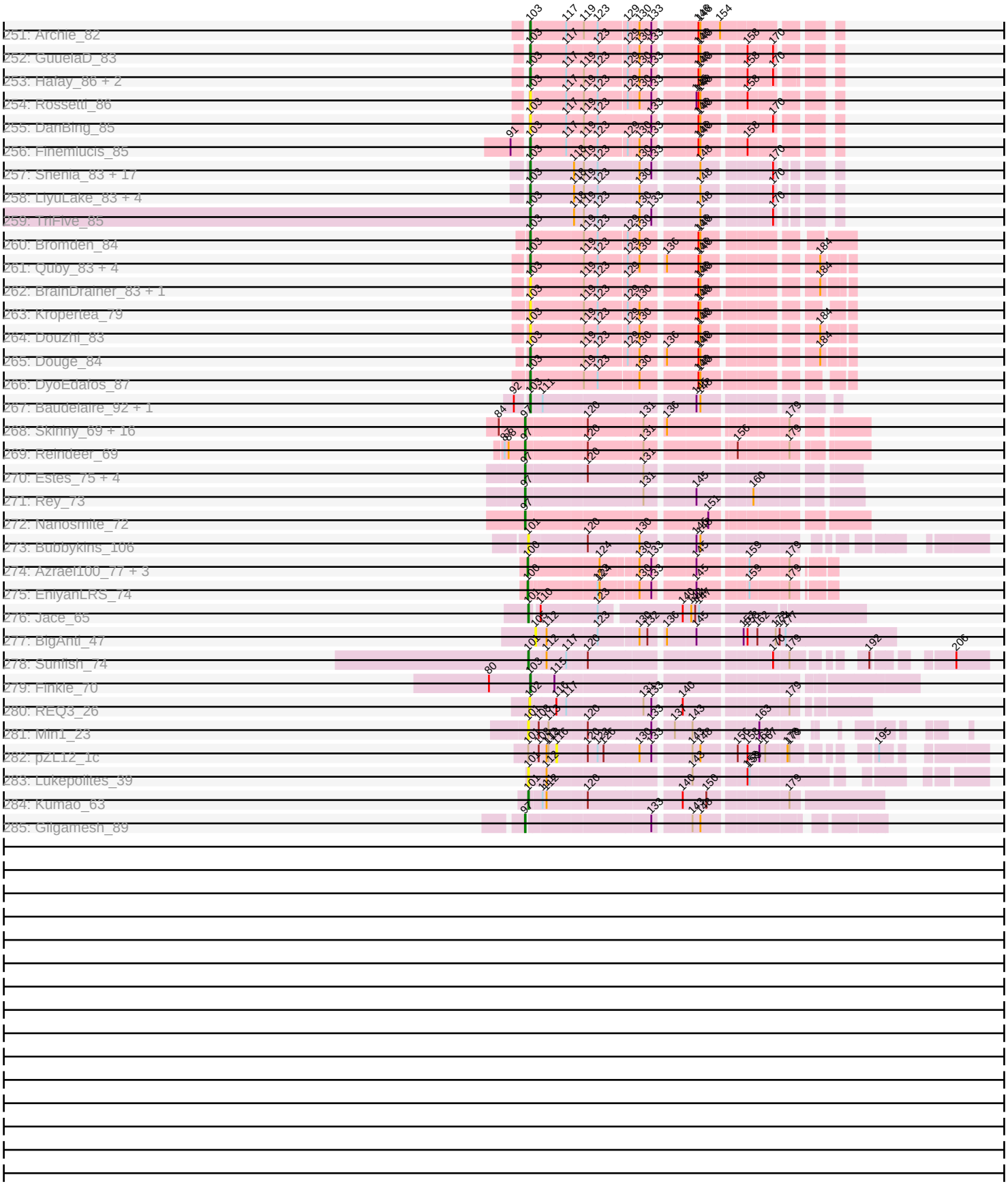
Pham 283346


151: JeTaime_99
152: Tomaszewski_95
153: Becksu_98 + 2
154: SophKB_97
155: Budgie_109
156: IHOP_98
157: Rakim_101
158: Savannah_63 + 34
159: Megan_61
160: Gina_68 + 1
161: Skugga_64
162: RobsFeet_68 + 1
163: NoodlelyBoi_65
164: Merry_ + 1
165: Tyrumbra_63
166: Jayden_65
167: Zapato_64
168: Ariadne_74 + 1
169: SirFrank_64
170: Nicole72_62
171: Fireman_67
172: Shrubaron_68
173: ClearAsMud_68
174: Wilca_64 + 1
175: Altheas_60
176: Terij_60
177: Cressida_63
178: Kozie_60
179: MementoMori_61
180: Matzah_62
181: Cinna_60
182: Margaery_59
183: Brah_47
184: MicyPS_75
185: PSonyx_96
186: Spartan_54
187: Gallop_58
188: Shoya_55
189: Gibbzilla_62
190: JeanClaude_53
191: Alatato_54
192: Pigu_55
193: Rooter_57
194: BrayBeast_55 + 1
195: Kumotta_55 + 1
196: Maruru_48 + 2
197: Mufasa8_48
198: Llimac1015_45 + 1
199: Klevey_43
200: Bolt007_43

Pham 283346


201: Altadena_40
202: Circuit_38
203: Bumble_38
204: Praline_42
205: Nandito_43
206: Kukla_55
207: GOPitcher_53
208: DreamEater_54
209: PetriParty_56
210: TripleJ_56
211: BlackJade_52
212: Gooberta_38 + 1
213: Vitus_39
214: SunnyJune_46 + 2
215: Divya_48
216: Orkz_48
217: Hirko_37
218: Music_38
219: Vibaki_38
220: Ottawa_81 + 1
221: Bauer_65 + 2
222: BellaJr_64
223: BlackSpider_59
224: Hum25_61
225: Skitty_54
226: Pitbull_60
227: Khuang_62
228: Altostratus_62
229: Violeta_47 + 4
230: Dropshot_45 + 3
231: NCRodriguez_47 + 4
232: Mariel_48
233: Antuna_47
234: Jakelyne_48 + 1
235: Losacky_47 + 1
236: Sweetums_43
237: Gingerbug_42
238: Lesiram_44
239: Teng_47
240: DelaGarza_43
241: Wrackline_57
242: JrWilcox_106
243: ValentiniPuff_105
244: Colossa_43
245: VanLee_42
246: LeBron_81 + 18
247: OhShagHennessy_79
248: OverPar_87 + 28
249: Bazzle_83
250: ZhongYanYuan_83 + 2

Pham 283346


251: Archie_82
252: GuuelaD_83
253: Halay_86 + 2
254: Rossetti_86
255: DanBing_85
256: Finemlucis_85
257: Shenia_83 + 17
258: LiyuLake_83 + 4
259: TriFive_85
260: Bromden_84
261: Quby_83 + 4
262: BrainDrainer_83 + 1
263: Kropertea_79
264: Douzhi_83
265: Douge_84
266: DyoEdafos_87
267: Baudelaire_92 + 1
268: Skinny_69 + 16
269: Reindeer_69
270: Estes_75 + 4
271: Rey_73
272: Nanosmite_72
273: Bubbykins_106
274: Azrael100_77 + 3
275: EniyanLRS_74
276: Jace_65
277: BigAmi_47
278: Sunfish_74
279: Finkie_70
280: REQ3_26
281: Min1_23
282: pzL12_1c
283: Lukepolites_39
284: Kumao_63
285: Gilgamesh_89

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 283346 Report

This analysis was run 02/23/26 on database version 636.

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 283346 has 704 members, 157 are drafts.

Phages represented in each track:
- Track 1 : Wheelbite_14, Edmundo_14
- Track 2 : Waltz_14
- Track 3 : Kovu_15, ApoKipo_15
- Track 4 : EastWest_38
- Track 5 : Jawnski_35, Piccoletto_35, Beans_35, NathanVaag_35
- Track 6 : Franzy_35
- Track 7 : Brent_35
- Track 8 : King2_35
- Track 9 : BossLady_37, TaeYoung_37, Martha_37
- Track 10 : Grekaycon_37
- Track 11 : StevieBAY_37, GravityBall_37
- Track 12 : Shade_37, Jordan_37, JKerns_37, Sonny_37
- Track 13 : BigDome_37
- Track 14 : Wyborn_38
- Track 15 : Pippa_37
- Track 16 : LeeroyJ_37, BarretLemon_37, Timinator_37
- Track 17 : Sicarius2_38
- Track 18 : Zartrosa_37
- Track 19 : Nostromo_35
- Track 20 : Abba_37
- Track 21 : Ranunculus_85
- Track 22 : Rizwana_72
- Track 23 : Tank_72, Wilde_74
- Track 24 : DogYard_96, Kubulix_96, MellowYellow_97, Beagle_98, Popstraw_92
- Track 25 : Ren19_88, Nikan_93
- Track 26 : NyleyClemson_96, RazzB_95, Forrestell_95
- Track 27 : PhuzzTulsa_94
- Track 28 : Odyssey395_96, Hive_93, Pureglobe5_96, Pointis_93, BetaFish_96
- Track 29 : Ollypop_91
- Track 30 : BruhMoment_82
- Track 31 : AWGoat_69
- Track 32 : SilentRX_70

• Track 33 : JaNo_100, Mordred_101, Tophat_102, Chipper1996_1020, HumptyDumpty_101, Chubster_101, PrincessTrina_102, Kabreeze_101, Scavito_102
• Track 34 : ArV1_088
• Track 35 : MoyaNatalis_101, JayCookie_102
• Track 36 : Lymara_99
• Track 37 : DrYang_97
• Track 38 : RosiePosie_101
• Track 39 : EdgarPoe_101
• Track 40 : KBurrousTX_97
• Track 41 : Linus_101, Chocolat_101
• Track 42 : Colucci_104
• Track 43 : Conboy_100
• Track 44 : KendraB23_63, Westrich_63, Pelletreau_64, Gravel_64
• Track 45 : Chickaboom_54, WileyE_58
• Track 46 : Brynnie_51
• Track 47 : Ruchi_52, Vulpecula_52, Basilisk_53
• Track 48 : Orcanus_53
• Track 49 : Abidatro_55
• Track 50 : Galaxy_52
• Track 51 : Niblet_57
• Track 52 : Eesa_52, Zixiang_56, Shen_52, Amanises_62, Toad24_55
• Track 53 : TaylorSipht_54
• Track 54 : Chicken_53
• Track 55 : Jamun_52
• Track 56 : Kuleana_55
• Track 57 : LittleTokyo_52
• Track 58 : Zhuangyuan_60
• Track 59 : Antrice_55
• Track 60 : Cygnet_54
• Track 61 : Leona_54, Rattail_55, Renna12_54, RedFox_55, Azaz_56
• Track 62 : Babushka_52
• Track 63 : AmiCi24_54, Fingolfin_55, Juno112_54, Oppalora_54, HamCheese_55, Glotell_56, DanHam62_55, KHumphrey_55, Atlantica_55, PhluffyCoco_55, AdoptaAdorbs_54, Camara_55, Amphitrite_55, Laphuphu24k_54
• Track 64 : StuartMinion_46, AlexMinion_56
• Track 65 : Andrew_57
• Track 66 : Raphaella_71, Kabloowy_71, Mapleville_67, MurphyJoseph_68, Richie_74, Lawnathon_73, Windest_74
• Track 67 : MidnightRain_74, GumGum_75, Auxilium_68, RadFad_76, Hillester_76, Vopal_73
• Track 68 : Isolde_70, Shukran_69
• Track 69 : AdaS_69, Faja_73, BillyTP_73, Hestia_64, YoungHarleezy_71
• Track 70 : Globfish_72, Cassini_67, SpicyFrank_74
• Track 71 : JellyBread_68, MaterMagnus_71, Gorpy_70, Sakai_69, Aikyam_70
• Track 72 : Seahorse_76
• Track 73 : Bhageatrice_76
• Track 74 : SonDevVon_78
• Track 75 : Lasker_73
• Track 76 : Satrap_72, LeBruni_73
• Track 77 : Ding_69
• Track 78 : DarwinJr_76, Crescenzo_75
• Track 79 : Raqqa_67, BenchScraper_72
• Track 80 : Persistence_65

• Track 81 : Tiff81_67
• Track 82 : CookieBear_71
• Track 83 : MUWow_71
• Track 84 : NewKitty_74
• Track 85 : EvePickles_69
• Track 86 : Nyilah_73
• Track 87 : BlueShadow_70, Sporco_74
• Track 88 : Anekin_74
• Track 89 : Sashimi_69
• Track 90 : AbbyDaisy_73
• Track 91 : CosmicBrownie_67
• Track 92 : BasketStar_72
• Track 93 : Phrank15_74
• Track 94 : SV1_43
• Track 95 : SoJo_44, DaRealMyers_44, Tubberson_44
• Track 96 : Picard_46
• Track 97 : ToastyFinz_43
• Track 98 : Mojorita_46
• Track 99 : Darolandstone_44
• Track 100 : Raleigh_44
• Track 101 : PapayaSalad_45
• Track 102 : Bioscum_46, Ididsumtinwong_47
• Track 103 : Austintatious_43
• Track 104 : Lishka_43
• Track 105 : WheeHeim_13, Forthebois_13
• Track 106 : RickRoss_14
• Track 107 : Schlegelian_46
• Track 108 : AxeJC_44, Cumberbatch_46, ArizonaGT_46, FrumpyGal_46, Eastland_45, Piccadilly_45, Eklok_45, Vondra_44
• Track 109 : Ignacio_45, HFrancette_46
• Track 110 : E1_47, Anatole_47, B3_49
• Track 111 : Doucette_53
• Track 112 : G4_64
• Track 113 : E6_53
• Track 114 : PFR1_50, PFR2_52
• Track 115 : DonTron_86, Soos_82, KingstonB_88, ColdSoup_89, Jollymon_86, Amo99_89, Purplicious_86, Sting_85
• Track 116 : Makar_90
• Track 117 : Clawz_88
• Track 118 : Stillion_89
• Track 119 : Grumio_87
• Track 120 : Geeche_124, Abscondus_125, Bachita_129, Miskis_121, Cucurbita_127, Norvs_125, Aphelion_126, Toniann_126, Dusty_123, ClubL_126, Culver_126, PhinkBoden_126, Lozinak_126, Engineer_128, Smoothie_127
• Track 121 : WilliamBoone_125
• Track 122 : OneUp_111
• Track 123 : BrutonGaster_101
• Track 124 : Splinter_54, Vendetta_54, Goib_55
• Track 125 : TZGordon_56
• Track 126 : Banquo_53, TinaLin_53
• Track 127 : DinoDaryn_55, Huffy_55
• Track 128 : Gsput1_47
• Track 129 : Dardanus_49

• Track 130 : Schmidt_48
• Track 131 : Catfish_52
• Track 132 : Cardigan_138
• Track 133 : JonJames_135, Yvonnetastic_132
• Track 134 : Bantam_84
• Track 135 : Mollymur_84
• Track 136 : SpeedDemon_850
• Track 137 : Towmatter_74, Daredevil_74
• Track 138 : DatBoi_81
• Track 139 : Greep_104, Lilizi_101, Moldemort_103, Emmina_100, ShamWow_100, RiverMonster_100, Misfit_101, CrystalP_99, Eureka_99, Hoonter_103, BilboSwaggins_98, FireRed_103, Henry_97, Simpliphy_99, Filch_102, OrionPax_99, Palpatine_101, Porky_99, Tarkin_99, ShereKhan_98, Hopey_101, Nala_102, Buck_101, TeamEdward_100, Policronamos_102, Elph10_100, Contagion_96, Phrux_97, Bruin_97, Stark_101, Ukulele_95, Teaspoon_101, HanKaySha_101, Maxxinista_102, PaddyBaddy_100, Lilac_102, Quallification_101, Thresher_102, Bogg_100, Terminus_103, Cjw1_101, Toto_98, NoSleep_101, Bench_103, Goku_99, BugsBunny_99, Mosby_96, PhatBacter_103, Sassay_95, Kanye_97, Phaux_102, MadamMonkfish_100, Willez_95
• Track 140 : Nimrod_100, Harella_100, Glexan_99, Inca_97, Xandras_99, Gator_98, Icee_101, Marshmallow_97, FoghornLeghorn_93, Flypotenuse_96, Traaww1_96, DoctorDiddles_99, YassJohnny_97, Asriel_98, Barbarian_99, Phaja_98, Bask21_100, xkcd_103, Brewer_94, AmericanBeauty_104, MollyToe_94, Myrale_100
• Track 141 : Lilpickle_99, Cactus_104, DrDrey_100, Tuco_101, Dusk_97, Goldilocks_103, TeardropMSU_96, MPhalcon_101, Murica_103, Murphy_100, ABCat_97, FairyPath_100, BadStone_97, Pharsalus_97, StellaBean_99, ChosenOne_100, BaboJay_100, Mindy_99, Dumbo_100, Sotrice96_101, Elite2014_99, MISSy_101
• Track 142 : Petra64142_104, Daikon_100, NelitzaMV_97, StormChicken_101
• Track 143 : Pumpkin_102
• Track 144 : StolenFromERC_102, Easy2Say_100, GooberAzure_103, Stank_102, GoldenSpark_104, Kimchi_104, Adnama_104, Gage_102, Argent26_104, Holt_105, Gemini_105, Kostya_100, Wiggin_102, Command613_102
• Track 145 : SirDuracell_100, Cookies_97, Amao_100, ChotaBhai_100, Rimmer_98, HufflyPuff_102, Pat3_97
• Track 146 : Manda_101
• Track 147 : Highbury_97, Saints25_97
• Track 148 : 244_101, Balomoji_100, TBrady12_103, Czyszczon1_101, Thimble_102
• Track 149 : BigBubba_100, Youngblood_103
• Track 150 : Paperbeatsrock_99, Miniwave_95
• Track 151 : JeTaime_99
• Track 152 : Tomaszewski_95
• Track 153 : Becksu_98, NonchalantPear_98, Ptowny_96
• Track 154 : SophKB_97
• Track 155 : Budgie_109
• Track 156 : IHOP_98
• Track 157 : Rakim_101
• Track 158 : Savannah_63, Scumberland_66, PhedwardCullen_62, Phorgeous_64, Kowalski_63, LittleFortune_66, Cranjis_65, KaiHaiDragon_65, Lucretia_64, Hermeonysus_64, PierreOrion_64, Pulchra_66, Ganandorf_63, Jollipop_65, Glorp_65, Piperis_65, Shotgun_64, Quhwah_68, Honeyfin_65, Paschalis_64, BrazzalePHS_63, BeagleBug_63, CrazyRich_63, PiperSansNom_65, Ramiel05_63, EarickHC_65, Crisis_65, Antares_64, Onika_63, Busephilis_63, Jefe_64,

Rockwell_63, Yeti_66, Selwyn23_65, Phrancesco_64
• Track 159 : Megan_61
• Track 160 : Gina_68, Teamocil_68
• Track 161 : Skugga_64
• Track 162 : RobsFeet_68, Metamorphoo_67
• Track 163 : NoodlelyBoi_65
• Track 164 : Merry_, Sunny_
• Track 165 : Tyrumbra_63
• Track 166 : Jayden_65
• Track 167 : Zapato_64
• Track 168 : Ariadne_74, Smarties_74
• Track 169 : SirFrank_64
• Track 170 : Nicole72_62
• Track 171 : Fireman_67
• Track 172 : Shrubaron_68
• Track 173 : ClearAsMud_68
• Track 174 : Wilca_64, BirdInFrench_64
• Track 175 : Altheas_60
• Track 176 : Terij_60
• Track 177 : Cressida_63
• Track 178 : Kozie_60
• Track 179 : MementoMori_61
• Track 180 : Matzah_62
• Track 181 : Cinna_60
• Track 182 : Margaery_59
• Track 183 : Bran_47
• Track 184 : MicyPS_75
• Track 185 : PSonyx_96
• Track 186 : Spartan_54
• Track 187 : Gallop_58
• Track 188 : Shoya_55
• Track 189 : Gibbzilla_62
• Track 190 : JeanClaude_53
• Track 191 : Alatato_54
• Track 192 : Pigu_55
• Track 193 : Rooter_57
• Track 194 : BrayBeast_55, Sarge_49
• Track 195 : Kumotta_55, MargaretKali_51
• Track 196 : Maruru_48, Sonali_48, Sunshine23_50
• Track 197 : Mufasa8_48
• Track 198 : Lilmac1015_45, CalWood4100_45
• Track 199 : Klevey_43
• Track 200 : Bolt007_43
• Track 201 : Altadena_40
• Track 202 : Circuit_38
• Track 203 : Bumble_38
• Track 204 : Prairie_42
• Track 205 : Nandito_43
• Track 206 : Kukla_55
• Track 207 : GUPitcher_53
• Track 208 : DreamEater_54
• Track 209 : PetriParty_56
• Track 210 : TripleJ_56

• Track 211 : BlackJade_52
• Track 212 : Gooberta_38, GoldDust_38
• Track 213 : Vitus_39
• Track 214 : SunnyJune_46, AirForce1_45, Jinkies_44
• Track 215 : Divya_48
• Track 216 : Orkz_48
• Track 217 : Hirko_37
• Track 218 : Music_38
• Track 219 : Vibaki_38
• Track 220 : Ottawa_81, Kharcho_81
• Track 221 : Bauer_65, ThayneTheZag_76, Zucker_67
• Track 222 : BellaJr_64
• Track 223 : BlackSpider_59
• Track 224 : Hum25_61
• Track 225 : Skitty_54
• Track 226 : Pitbull_60
• Track 227 : Khuang_62
• Track 228 : Altostratus_62
• Track 229 : Violeta_47, Bush_46, Guzman_45, CookieDog_45, Carrillo_47
• Track 230 : Dropshot_45, Appa_45, Winchester007_61, PhillyJawn_46
• Track 231 : NCRodriguez_47, Warren_45, Phingu_48, Blett_45, Pickles13_44
• Track 232 : Mariel_48
• Track 233 : Antuna_47
• Track 234 : Jakelyne_48, Phonegingi_45
• Track 235 : Losacky_47, MenE_47
• Track 236 : Sweetums_43
• Track 237 : Gingerbug_42
• Track 238 : Lesiram_44
• Track 239 : Teng_47
• Track 240 : DelaGarza_43
• Track 241 : Wrackline_57
• Track 242 : JrWilcox_106
• Track 243 : ValentiniPuff_105
• Track 244 : Colossa_43
• Track 245 : VanLee_42
• Track 246 : LeBron_81, Rose5_83, Enceladus_79, AvadaKedavra_82, Silverleaf_82, DirkDirk_79, Acquire49_82, Halena_80, MAckerman_81, Appletree2_81, Zaria_83, Tyson_83, JoeDirt_83, CicholasNage_79, Wyatt2_83, Calm_84, UPIE_81, Poochiewood_80, Wamburgrxpress_82
• Track 247 : OhShagHennessy_79
• Track 248 : OverPar_87, Lewan_86, Rumpelstiltskin_82, Itos_85, Crossroads_85, Soap141_85, Gabriela_85, Underpass_77, Breezona_85, Gardann_85, Loadrie_83, Nicholasp3_85, Miley16_85, Winky_85, Vetrix_84, Netyap_86, Lynnae_87, BobsGarage_85, LilDestine_84, Faith1_85, DrSeegs_85, Zakai_86, MkaliMitinis3_86, Wigglewiggle_84, SoJulia_87, Kahlid_85, BigCheese_85, Sarshaun_86, Wilder_86
• Track 249 : Bazzle_83
• Track 250 : ZhongYanYuan_83, DHan_89, Baoshan_83
• Track 251 : Archie_82
• Track 252 : GuuelaD_83
• Track 253 : Hafay_86, Claus_84, Tourach_84
• Track 254 : Rossetti_86
• Track 255 : DanBing_85
• Track 256 : Finemlucis_85

• Track 257 : Snenia_83, Finnry_83, Lolly9_82, Red305_85, MsGreen_84, Jubie_83, Clautastrophe_82, Nicholas_81, Samty_82, Krypton555_84, MiniMac_87, Jobypre_84, Kingsolomon_81, Moostard_81, Lumos_84, Whirlwind_84, Bellis_84, MiniLon_87
• Track 258 : LiyuLake_83, DuncansLeg_84, BourbonZero_85, KirDoubleO7_82, Ellson_83
• Track 259 : TriFive_85
• Track 260 : Bromden_84
• Track 261 : Quby_83, FarmResident_84, ChutneyChips_82, Sheng711_84, Chaser_82
• Track 262 : BrainDrainer_83, PYPDinur_82
• Track 263 : Kropertea_79
• Track 264 : Douzhi_83
• Track 265 : Douge_84
• Track 266 : DyoEdafos_87
• Track 267 : Baudelaire_92, Aegeus_92
• Track 268 : Skinny_69, Dulcita_68, Auspice_67, Glaske16_68, Bricole_66, TpudiCK_69, FreakyGoo_68, LilhomieP_66, Izel_68, IPhane7_67, SlimJimmy_66, TyDawg_67, RoseMarie_71, Bongo_67, PegLeg_66, KleverKiS_66, Diminimus_68
• Track 269 : Reindeer_69
• Track 270 : Estes_75, GenevaB15_75, MrMagoo_77, Aziz_74, GardenSalsa_76
• Track 271 : Rey_73
• Track 272 : Nanosmite_72
• Track 273 : Bubbykins_106
• Track 274 : Azrael100_77, Wildcat_78, MaryV_78, Cosmo_78
• Track 275 : EniyanLRS_74
• Track 276 : Jace_65
• Track 277 : BigAnti_47
• Track 278 : Sunfish_74
• Track 279 : Finkle_70
• Track 280 : REQ3_26
• Track 281 : Min1_23
• Track 282 : pZL12_1c
• Track 283 : Lukepolites_39
• Track 284 : Kumao_63
• Track 285 : Gilgamesh_89

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

The start number called the most often in the published annotations is 101, it was called in 411 of the 547 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 244_101, ABCat_97, AWGoat_69, Abba_37, AbbyDaisy_73, Abidatro_55, Abscondus_125, AdaS_69, Adnama_104, AdoptaAdorbs_54, Aikyam_70, Alatato_54, AlexMinion_56, Altadena_40, Altheas_60, Altostratus_62, Amanises_62, Amao_100, AmericanBeauty_104, AmiCi24_54, Amo99_89, Amphitrite_55, Andrew_57, Anekin_74, Antares_64, Antrice_55, Antuna_47, Aphelion_126, ApoKipo_15, Appa_45, ArV1_088, Argent26_104, Ariadne_74, ArizonaGT_46, Asriel_98, Atlantica_55, Austintatious_43, AxeJC_44, Azaz_56, BaboJay_100, Babushka_52,

Bachita_129, BadStone_97, Balomoji_100, Banquo_53, Bantam_84, Barbarian_99, BarretLemon_37, Basilisk_53, Bask21_100, BasketStar_72, Bauer_65, BeagleBug_63, Beagle_98, Beans_35, BellaJr_64, BenchScraper_72, Bench_103, BetaFish_96, Bhageatrice_76, BigBubba_100, BigDome_37, BilboSwaggins_98, BillyTP_73, Bioscum_46, BirdInFrench_64, BlackSpider_59, Blett_45, BlueShadow_70, Bogg_100, Bolt007_43, BossLady_37, Bran_47, BrayBeast_55, BrazzalePHS_63, Brent_35, Brewer_94, BruhMoment_82, Bruin_97, BrutonGaster_101, Brynnie_51, Bubbykins_106, Buck_101, Budgie_109, BugsBunny_99, Bumble_38, Busephilis_63, Bush_46, Cactus_104, CalWood4100_45, Camara_55, Cardigan_138, Carrillo_47, Catfish_52, Chickaboom_54, Chicken_53, Chipper1996_1020, Chocolat_101, ChosenOne_100, ChotaBhai_100, Chubster_101, Cinna_60, Circuit_38, Cjw1_101, Clawz_88, ClubL_126, ColdSoup_89, Colossa_43, Colucci_104, Command613_102, Conboy_100, Contagion_96, CookieBear_71, CookieDog_45, Cookies_97, CosmicBrownie_67, Cranjis_65, CrazyRich_63, Crescenzo_75, Cressida_63, Crisis_65, CrystalP_99, Cucurbita_127, Culver_126, Cumberbatch_46, Cygnet_54, Czyszczon1_101, DaRealMyers_44, Daikon_100, DanHam62_55, Dardanus_49, Daredevil_74, Darolandstone_44, DarwinJr_76, DatBoi_81, DelaGarza_43, Ding_69, DinoDaryn_55, DoctorDiddles_99, DogYard_96, DonTron_86, DrDrey_100, DrYang_97, DreamEater_54, Dropshot_45, Dumbo_100, Dusk_97, Dusty_123, EarickHC_65, Eastland_45, Easy2Say_100, EdgarPoe_101, Edmundo_14, Eesa_52, Eklok_45, Elite2014_99, Elph10_100, Emmina_100, Engineer_128, Eureka_99, EvePickles_69, FairyPath_100, Faja_73, Filch_102, Fingolfin_55, FireRed_103, Flypotenuse_96, FoghornLeghorn_93, Forrestell_95, Franzy_35, FrumpyGal_46, GUPitcher_53, Gage_102, Galaxy_52, Gallop_58, Ganandorf_63, Gator_98, Geeche_124, Gemini_105, Gibbzilla_62, Gingerbug_42, Glexan_99, Glorp_65, Glotell_56, Goib_55, Goku_99, GoldDust_38, GoldenSpark_104, Goldilocks_103, GooberAzure_103, Gooberta_38, Gorpy_70, Gravel_64, GravityBall_37, Greep_104, Grekaycon_37, Grumio_87, Gsput1_47, Guzman_45, HFrancette_46, HamCheese_55, HanKaySha_101, Harella_100, Henry_97, Hermeonysus_64, Hestia_64, Highbury_97, Hirko_37, Hive_93, Holt_105, Honeyfin_65, Hoonter_103, Hopey_101, HufflyPuff_102, Huffy_55, HumptyDumpty_101, IHOP_98, Icee_101, Ididsumtinwong_47, Ignacio_45, Inca_97, Isolde_70, JKerns_37, JaNo_100, Jace_65, Jakelyne_48, Jamun_52, Jawnski_35, JayCookie_102, Jayden_65, JeTaime_99, JeanClaude_53, Jefe_64, JellyBread_68, Jollipop_65, Jollymon_86, JonJames_135, Jordan_37, Juno112_54, KBurrousTX_97, KHumphrey_55, Kabloowy_71, Kabreeze_101, KaiHaiDragon_65, Kanye_97, KendraB23_63, Kharcho_81, Khuang_62, Kimchi_104, King2_35, KingstonB_88, Klevey_43, Kostya_100, Kovu_15, Kowalski_63, Kozie_60, Kubulix_96, Kukla_55, Kuleana_55, Kumao_63, Kumotta_55, Laphuphu24k_54, Lasker_73, Lawnathon_73, LeBruni_73, LeeroyJ_37, Leona_54, Lesiram_44, Lilac_102, Lilizi_101, Lilmac1015_45, Lilpickle_99, Linus_101, Lishka_43, LittleFortune_66, LittleTokyo_52, Losacky_47, Lozinak_126, Lucretia_64, Lukepolites_39, Lymara_99, MISSy_101, MPhalcon_101, MUWow_71, MadamMonkfish_100, Makar_90, Manda_101, Mapleville_67, Margaery_59, MargaretKali_51, Mariel_48, Marshmallow_97, Martha_37, Maruru_48, MaterMagnus_71, Matzah_62, Maxxinista_102, MellowYellow_97, MementoMori_61, MenE_47, Merry_, MicyPS_75, Min1_23, Mindy_99, Miniwave_95, Misfit_101, Miskis_121, Mojorita_46, Moldemort_103, MollyToe_94, Mollymur_84, Mordred_101, Mosby_96, MoyaNatalis_101, Mufasa8_48, Murica_103, MurphyJoseph_68, Murphy_100, Music_38, Myrale_100, NCRodriguez_47, Nala_102, Nandito_43, NathanVaag_35, NelitzaMV_97, Niblet_57, Nicole72_62, Nikan_93, Nimrod_100, NoSleep_101, Norvs_125, Nostromo_35, Nyilah_73, NyleyClemson_96, Odyssey395_96, Ollypop_91, OneUp_111, Onika_63, Oppalora_54, Orcanus_53,

OrionPax_99, Orkz_48, Ottawa_81, PFR1_50, PFR2_52, PSonyx_96, PaddyBaddy_100, Palpatine_101, PapayaSalad_45, Paperbeatsrock_99, Paschalis_64, Pat3_97, Pelletreau_64, Persistence_65, Petra64142_104, PetriParty_56, Phaja_98, Pharsalus_97, PhatBacter_103, Phaux_102, PhedwardCullen_62, PhillyJawn_46, Phingu_48, PhinkBoden_126, PhluffyCoco_55, Phonegingi_45, Phorgeous_64, Phrancesco_64, Phrank15_74, Phrux_97, PhuzzTulsa_94, Picard_46, Piccadilly_45, Piccoletto_35, Pickles13_44, PierreOrion_64, Pigu_55, PiperSansNom_65, Piperis_65, Pippa_37, Pointis_93, Policronamos_102, Popstraw_92, Porky_99, Prairie_42, PrincessTrina_102, Pulchra_66, Pumpkin_102, Pureglobe5_96, Purplicious_86, Quallification_101, Quhwah_68, Raleigh_44, Ramiel05_63, Ranunculus_85, Raphaella_71, Raqqa_67, Rattail_55, RazzB_95, RedFox_55, Ren19_88, Renna12_54, Richie_74, Rimmer_98, RiverMonster_100, Rizwana_72, Rockwell_63, Rooter_57, RosiePosie_101, Ruchi_52, SV1_43, Saints25_97, Sakai_69, Sarge_49, Sassay_95, Satrap_72, Savannah_63, Scavito_102, Schlegelian_46, Schmidt_48, Scumberland_66, Seahorse_76, Selwyn23_65, Shade_37, ShamWow_100, Shen_52, ShereKhan_98, Shotgun_64, Shoya_55, Shukran_69, Sicarius2_38, SilentRX_70, Simpliphy_99, SirDuracell_100, Skugga_64, Smarties_74, Smoothie_127, SoJo_44, SonDevVon_78, Sonali_48, Sonny_37, Soos_82, SophKB_97, Sotrice96_101, Spartan_54, SpeedDemon_850, Splinter_54, Sporco_74, Stank_102, Stark_101, StellaBean_99, StevieBAY_37, Stillion_89, Sting_85, StolenFromERC_102, StormChicken_101, StuartMinion_46, Sunfish_74, Sunny_, Sunshine23_50, Sweetums_43, TBrady12_103, TZGordon_56, TaeYoung_37, Tank_72, Tarkin_99, TaylorSipht_54, TeamEdward_100, TeardropMSU_96, Teaspoon_101, Teng_47, Terij_60, Terminus_103, ThayneTheZag_76, Thimble_102, Thresher_102, Tiff81_67, Timinator_37, TinaLin_53, Toad24_55, ToastyFinz_43, Tomaszewski_95, Toniann_126, Tophat_102, Toto_98, Towmatter_74, Traaww1_96, TripleJ_56, Tubberson_44, Tuco_101, Ukulele_95, ValentiniPuff_105, VanLee_42, Vendetta_54, Vibaki_38, Violeta_47, Vitus_39, Vondra_44, Vulpecula_52, Waltz_14, Warren_45, Westrich_63, Wheelbite_14, Wiggin_102, Wilca_64, Wilde_74, WileyE_58, Willez_95, WilliamBoone_125, Winchester007_61, Windest_74, Wrackline_57, Wyborn_38, Xandras_99, YassJohnny_97, Yeti_66, YoungHarleezy_71, Youngblood_103, Yvonnetastic_132, Zartrosa_37, Zhuangyuan_60, Zixiang_56, Zucker_67, xkcd_103,

Genes that have the "Most Annotated" start but do not call it:
• Becksu_98, Megan_61, NewKitty_74, NonchalantPear_98, Ptowny_96, Rakim_101, pZL12_1c,

Genes that do not have the "Most Annotated" start:
• Acquire49_82, Aegeus_92, AirForce1_45, Anatole_47, Appletree2_81, Archie_82, Auspice_67, Auxilium_68, AvadaKedavra_82, Aziz_74, Azrael100_77, B3_49, Baoshan_83, Baudelaire_92, Bazzle_83, Bellis_84, BigAnti_47, BigCheese_85, BlackJade_52, BobsGarage_85, Bongo_67, BourbonZero_85, BrainDrainer_83, Breezona_85, Bricole_66, Bromden_84, Calm_84, Cassini_67, Chaser_82, ChutneyChips_82, CicholasNage_79, Claus_84, Clautastrophe_82, ClearAsMud_68, Cosmo_78, Crossroads_85, DHan_89, DanBing_85, Diminimus_68, DirkDirk_79, Divya_48, Doucette_53, Douge_84, Douzhi_83, DrSeegs_85, Dulcita_68, DuncansLeg_84, DyoEdafos_87, E1_47, E6_53, EastWest_38, Ellson_83, Enceladus_79, EniyanLRS_74, Estes_75, Faith1_85, FarmResident_84, Finemlucis_85, Finkle_70, Finnry_83, Fireman_67, Forthebois_13, FreakyGoo_68, G4_64, Gabriela_85, Gardann_85, GardenSalsa_76, GenevaB15_75, Gilgamesh_89, Gina_68, Glaske16_68, Globfish_72, GumGum_75, GuuelaD_83, Hafay_86, Halena_80, Hillester_76, Hum25_61, IPhane7_67, Itos_85, Izel_68, Jinkies_44,

Jobypre_84, JoeDirt_83, JrWilcox_106, Jubie_83, Kahlid_85, Kingsolomon_81, KirDoubleO7_82, KleverKiS_66, Kropertea_79, Krypton555_84, LeBron_81, Lewan_86, LilDestine_84, LilhomieP_66, LiyuLake_83, Loadrie_83, Lolly9_82, Lumos_84, Lynnae_87, MAckerman_81, MaryV_78, Metamorphoo_67, MidnightRain_74, Miley16_85, MiniLon_87, MiniMac_87, MkaliMitinis3_86, Moostard_81, MrMagoo_77, MsGreen_84, Nanosmite_72, Netyap_86, Nicholas_81, Nicholasp3_85, NoodlelyBoi_65, OhShagHennessy_79, OverPar_87, PYPDinur_82, PegLeg_66, Pitbull_60, Poochiewood_80, Quby_83, REQ3_26, RadFad_76, Red305_85, Reindeer_69, Rey_73, RickRoss_14, RobsFeet_68, Rose5_83, RoseMarie_71, Rossetti_86, Rumpelstiltskin_82, Samty_82, Sarshaun_86, Sashimi_69, Sheng711_84, Shrubaron_68, Silverleaf_82, SirFrank_64, Skinny_69, Skitty_54, SlimJimmy_66, Snenia_83, SoJulia_87, Soap141_85, SpicyFrank_74, SunnyJune_46, Teamocil_68, Tourach_84, TpudiCK_69, TriFive_85, TyDawg_67, Tyrumbra_63, Tyson_83, UPIE_81, Underpass_77, Vetrix_84, Vopal_73, Wamburgrxpress_82, WheeHeim_13, Whirlwind_84, Wigglewiggle_84, Wildcat_78, Wilder_86, Winky_85, Wyatt2_83, Zakai_86, Zapato_64, Zaria_83, ZhongYanYuan_83,

Summary by start number:

Start 41:
• Found in 48 of 704 (6.8%) of genes in pham
• Manual Annotations of this start: 1 of 547
• Called 2.1% of time when present
• Phage (with cluster) where this start called: Rakim_101 (E),

Start 96:
• Found in 12 of 704 (1.7%) of genes in pham
• Manual Annotations of this start: 11 of 547
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ClearAsMud_68 (EC), Fireman_67 (EC), Gina_68 (EC), Megan_61 (EC), Metamorphoo_67 (EC), NoodlelyBoi_65 (EC), RobsFeet_68 (EC), Shrubaron_68 (EC), SirFrank_64 (EC), Teamocil_68 (EC), Tyrumbra_63 (EC), Zapato_64 (EC),

Start 97:
• Found in 33 of 704 (4.7%) of genes in pham
• Manual Annotations of this start: 26 of 547
• Called 87.9% of time when present
• Phage (with cluster) where this start called: Auspice_67 (M1), Aziz_74 (M2), Bongo_67 (M1), Bricole_66 (M1), Diminimus_68 (M1), Dulcita_68 (M1), Estes_75 (M2), Forthebois_13 (BO), FreakyGoo_68 (M1), GardenSalsa_76 (M2), GenevaB15_75 (M2), Gilgamesh_89 (singleton), Glaske16_68 (M1), IPhane7_67 (M1), Izel_68 (M1), KleverKiS_66 (M1), LilhomieP_66 (M1), MrMagoo_77 (M2), Nanosmite_72 (M3), PegLeg_66 (M1), Reindeer_69 (M1), Rey_73 (M2), RickRoss_14 (BO), RoseMarie_71 (M1), Skinny_69 (M1), SlimJimmy_66 (M1), TpudiCK_69 (M1), TyDawg_67 (M1), WheeHeim_13 (BO),

Start 99:
• Found in 1 of 704 (0.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JrWilcox_106 (GL),

Start 100:
• Found in 9 of 704 (1.3%) of genes in pham
• Manual Annotations of this start: 8 of 547
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_77 (V), BlackJade_52 (FL), Cosmo_78 (V), EniyanLRS_74 (V), Hum25_61 (FQ), MaryV_78 (V), Pitbull_60 (FQ), Skitty_54 (FQ), Wildcat_78 (V),

Start 101:
• Found in 531 of 704 (75.4%) of genes in pham
• Manual Annotations of this start: 411 of 547
• Called 98.7% of time when present
• Phage (with cluster) where this start called: 244_101 (E), ABCat_97 (E), AWGoat_69 (AP4), Abba_37 (AO3), AbbyDaisy_73 (AY), Abidatro_55 (AS1), Abscondus_125 (CQ1), AdaS_69 (AY), Adnama_104 (E), AdoptaAdorbs_54 (AS3), Aikyam_70 (AY), Alatato_54 (FB), AlexMinion_56 (AS3), Altadena_40 (FH), Altheas_60 (EG), Altostratus_62 (FS), Amanises_62 (AS1), Amao_100 (E), AmericanBeauty_104 (E), AmiCi24_54 (AS3), Amo99_89 (CP), Amphitrite_55 (AS3), Andrew_57 (AS3), Anekin_74 (AY), Antares_64 (EC), Antrice_55 (AS2), Antuna_47 (GA), Aphelion_126 (CQ1), ApoKipo_15 (AL), Appa_45 (GA), ArV1_088 (AR), Argent26_104 (E), Ariadne_74 (EC), ArizonaGT_46 (BP), Asriel_98 (E), Atlantica_55 (AS3), Austintatious_43 (BC3), AxeJC_44 (BP), Azaz_56 (AS3), BaboJay_100 (E), Babushka_52 (AS3), Bachita_129 (CQ1), BadStone_97 (E), Balomoji_100 (E), Banquo_53 (CU1), Bantam_84 (DL), Barbarian_99 (E), BarretLemon_37 (AO2), Basilisk_53 (AS1), Bask21_100 (E), BasketStar_72 (AY), Bauer_65 (FN), BeagleBug_63 (EC), Beagle_98 (AP2), Beans_35 (AO1), BellaJr_64 (FN), BenchScraper_72 (AY), Bench_103 (E), BetaFish_96 (AP2), Bhageatrice_76 (AY), BigBubba_100 (E), BigDome_37 (AO2), BilboSwaggins_98 (E), BillyTP_73 (AY), Bioscum_46 (BC3), BirdInFrench_64 (EG), BlackSpider_59 (FN), Blett_45 (GA), BlueShadow_70 (AY), Bogg_100 (E), Bolt007_43 (FH), BossLady_37 (AO2), Bran_47 (EP), BrayBeast_55 (FB), BrazzalePHS_63 (EC), Brent_35 (AO1), Brewer_94 (E), BruhMoment_82 (AP3), Bruin_97 (E), BrutonGaster_101 (CQ2), Brynnie_51 (AS1), Bubbykins_106 (UNK), Buck_101 (E), Budgie_109 (E), BugsBunny_99 (E), Bumble_38 (FH), Busephilis_63 (EC), Bush_46 (GA), Cactus_104 (E), CalWood4100_45 (FH), Camara_55 (AS3), Cardigan_138 (DD), Carrillo_47 (GA), Catfish_52 (CU5), Chickaboom_54 (AS1), Chicken_53 (AS1), Chipper1996_1020 (AR), Chocolat_101 (AR), ChosenOne_100 (E), ChotaBhai_100 (E), Chubster_101 (AR), Cinna_60 (EI), Circuit_38 (FH), Cjw1_101 (E), Clawz_88 (CP), ClubL_126 (CQ1), ColdSoup_89 (CP), Colossa_43 (KA), Colucci_104 (AR), Command613_102 (E), Conboy_100 (AR), Contagion_96 (E), CookieBear_71 (AY), CookieDog_45 (GA), Cookies_97 (E), CosmicBrownie_67 (AY), Cranjis_65 (EC), CrazyRich_63 (EC), Crescenzo_75 (AY), Cressida_63 (EI), Crisis_65 (EC), CrystalP_99 (E), Cucurbita_127 (CQ1), Culver_126 (CQ1), Cumberbatch_46 (BP), Cygnet_54 (AS2), Czyszczon1_101 (E), DaRealMyers_44 (BC1), Daikon_100 (E), DanHam62_55 (AS3), Dardanus_49 (CU3), Daredevil_74 (DL), Darolandstone_44 (BC2), DarwinJr_76 (AY), DatBoi_81 (DL), DelaGarza_43 (GF), Ding_69 (AY), DinoDaryn_55 (CU1), DoctorDiddles_99 (E), DogYard_96 (AP2), DonTron_86 (CP), DrDrey_100 (E), DrYang_97 (AR), DreamEater_54 (FJ), Dropshot_45 (GA), Dumbo_100 (E), Dusk_97 (E), Dusty_123 (CQ1), EarickHC_65 (EC), Eastland_45 (BP), Easy2Say_100 (E), EdgarPoe_101 (AR), Edmundo_14 (AL), Eesa_52 (AS1), Eklok_45 (BP), Elite2014_99 (E), Elph10_100 (E), Emmina_100 (E), Engineer_128 (CQ1), Eureka_99 (E), EvePickles_69 (AY), FairyPath_100 (E), Faja_73 (AY),

Filch_102 (E), Fingolfin_55 (AS3), FireRed_103 (E), Flypotenuse_96 (E), FoghornLeghorn_93 (E), Forrestell_95 (AP2), Franzy_35 (AO1), FrumpyGal_46 (BP), GUPitcher_53 (FJ), Gage_102 (E), Galaxy_52 (AS1), Gallop_58 (ES), Ganandorf_63 (EC), Gator_98 (E), Geeche_124 (CQ1), Gemini_105 (E), Gibbzilla_62 (FB), Gingerbug_42 (GF), Glexan_99 (E), Glorp_65 (EC), Glotell_56 (AS3), Goib_55 (CU1), Goku_99 (E), GoldDust_38 (FL), GoldenSpark_104 (E), Goldilocks_103 (E), GooberAzure_103 (E), Gooberta_38 (FL), Gorpy_70 (AY), Gravel_64 (AS1), GravityBall_37 (AO2), Greep_104 (E), Grekaycon_37 (AO2), Grumio_87 (CP), Gsput1_47 (CU2), Guzman_45 (GA), HFrancette_46 (BP), HamCheese_55 (AS3), HanKaySha_101 (E), Harella_100 (E), Henry_97 (E), Hermeonysus_64 (EC), Hestia_64 (AY), Highbury_97 (E), Hirko_37 (FL), Hive_93 (AP2), Holt_105 (E), Honeyfin_65 (EC), Hoonter_103 (E), Hopey_101 (E), HufflyPuff_102 (E), Huffy_55 (CU1), HumptyDumpty_101 (AR), IHOP_98 (E), Icee_101 (E), Ididsumtinwong_47 (BC3), Ignacio_45 (BP), Inca_97 (E), Isolde_70 (AY), JKerns_37 (AO2), JaNo_100 (AR), Jace_65 (singleton), Jakelyne_48 (GA), Jamun_52 (AS1), Jawnski_35 (AO1), JayCookie_102 (AR), Jayden_65 (EC), JeTaime_99 (E), JeanClaude_53 (FB), Jefe_64 (EC), JellyBread_68 (AY), Jollipop_65 (EC), Jollymon_86 (CP), JonJames_135 (DD), Jordan_37 (AO2), Juno112_54 (AS3), KBurrousTX_97 (AR), KHumphrey_55 (AS3), Kabloowy_71 (AY), Kabreeze_101 (AR), KaiHaiDragon_65 (EC), Kanye_97 (E), KendraB23_63 (AS1), Kharcho_81 (FM), Khuang_62 (FS), Kimchi_104 (E), King2_35 (AO1), KingstonB_88 (CP), Klevey_43 (FH), Kostya_100 (E), Kovu_15 (AL), Kowalski_63 (EC), Kozie_60 (EI), Kubulix_96 (AP2), Kukla_55 (FJ), Kuleana_55 (AS2), Kumao_63 (singleton), Kumotta_55 (FB), Laphuphu24k_54 (AS3), Lasker_73 (AY), Lawnathon_73 (AY), LeBruni_73 (AY), LeeroyJ_37 (AO2), Leona_54 (AS3), Lesiram_44 (GF), Lilac_102 (E), Lilizi_101 (E), Lilmac1015_45 (FH), Lilpickle_99 (E), Linus_101 (AR), Lishka_43 (BC3), LittleFortune_66 (EC), LittleTokyo_52 (AS2), Losacky_47 (GA), Lozinak_126 (CQ1), Lucretia_64 (EC), Lukepolites_39 (singleton), Lymara_99 (AR), MISSy_101 (E), MPhalcon_101 (E), MUWow_71 (AY), MadamMonkfish_100 (E), Makar_90 (CP), Manda_101 (E), Mapleville_67 (AY), Margaery_59 (EI), MargaretKali_51 (FB), Mariel_48 (GA), Marshmallow_97 (E), Martha_37 (AO2), Maruru_48 (FG), MaterMagnus_71 (AY), Matzah_62 (EI), Maxxinista_102 (E), MellowYellow_97 (AP2), MementoMori_61 (EI), MenE_47 (GA), Merry_ (EC), MicyPS_75 (EQ), Min1_23 (singleton), Mindy_99 (E), Miniwave_95 (E), Misfit_101 (E), Miskis_121 (CQ1), Mojorita_46 (BC1), Moldemort_103 (E), MollyToe_94 (E), Mollymur_84 (DL), Mordred_101 (AR), Mosby_96 (E), MoyaNatalis_101 (AR), Mufasa8_48 (FG), Murica_103 (E), MurphyJoseph_68 (AY), Murphy_100 (E), Music_38 (FL), Myrale_100 (E), NCRodriguez_47 (GA), Nala_102 (E), Nandito_43 (FH), NathanVaag_35 (AO1), NelitzaMV_97 (E), Niblet_57 (AS1), Nicole72_62 (EC), Nikan_93 (AP2), Nimrod_100 (E), NoSleep_101 (E), Norvs_125 (CQ1), Nostromo_35 (AO3), Nyilah_73 (AY), NyleyClemson_96 (AP2), Odyssey395_96 (AP2), Ollypop_91 (AP2), OneUp_111 (CQ2), Onika_63 (EC), Oppalora_54 (AS3), Orcanus_53 (AS1), OrionPax_99 (E), Orkz_48 (FL), Ottawa_81 (FM), PFR1_50 (BX), PFR2_52 (BX), PSonyx_96 (EQ), PaddyBaddy_100 (E), Palpatine_101 (E), PapayaSalad_45 (BC3), Paperbeatsrock_99 (E), Paschalis_64 (EC), Pat3_97 (E), Pelletreau_64 (AS1), Persistence_65 (AY), Petra64142_104 (E), PetriParty_56 (FJ), Phaja_98 (E), Pharsalus_97 (E), PhatBacter_103 (E), Phaux_102 (E), PhedwardCullen_62 (EC), PhillyJawn_46 (GA), Phingu_48 (GA), PhinkBoden_126 (CQ1), PhluffyCoco_55 (AS3), Phonegingi_45 (GA), Phorgeous_64 (EC), Phrancesco_64 (EC), Phrank15_74 (AY), Phrux_97 (E), PhuzzTulsa_94 (AP2), Picard_46 (BC1), Piccadilly_45 (BP), Piccoletto_35 (AO1), Pickles13_44 (GA), PierreOrion_64 (EC), Pigu_55 (FB), PiperSansNom_65 (EC), Piperis_65 (EC), Pippa_37 (AO2), Pointis_93 (AP2), Policronamos_102 (E), Popstraw_92 (AP2), Porky_99 (E), Prairie_42 (FH),

PrincessTrina_102 (AR), Pulchra_66 (EC), Pumpkin_102 (E), Pureglobe5_96 (AP2), Purplicious_86 (CP), Quallification_101 (E), Quhwah_68 (EC), Raleigh_44 (BC2), Ramiel05_63 (EC), Ranunculus_85 (AP), Raphaella_71 (AY), Raqqa_67 (AY), Rattail_55 (AS3), RazzB_95 (AP2), RedFox_55 (AS3), Ren19_88 (AP2), Renna12_54 (AS3), Richie_74 (AY), Rimmer_98 (E), RiverMonster_100 (E), Rizwana_72 (AP1), Rockwell_63 (EC), Rooter_57 (FB), RosiePosie_101 (AR), Ruchi_52 (AS1), SV1_43 (BC1), Saints25_97 (E), Sakai_69 (AY), Sarge_49 (FB), Sassay_95 (E), Satrap_72 (AY), Savannah_63 (EC), Scavito_102 (AR), Schlegelian_46 (BP), Schmidt_48 (CU4), Scumberland_66 (EC), Seahorse_76 (AY), Selwyn23_65 (EC), Shade_37 (AO2), ShamWow_100 (E), Shen_52 (AS1), ShereKhan_98 (E), Shotgun_64 (EC), Shoya_55 (FB), Shukran_69 (AY), Sicarius2_38 (AO2), SilentRX_70 (AP4), Simpliphy_99 (E), SirDuracell_100 (E), Skugga_64 (EC), Smarties_74 (EC), Smoothie_127 (CQ1), SoJo_44 (BC1), SonDevVon_78 (AY), Sonali_48 (FG), Sonny_37 (AO2), Soos_82 (CP), SophKB_97 (E), Sotrice96_101 (E), Spartan_54 (ES), SpeedDemon_850 (DL), Splinter_54 (CU1), Sporco_74 (AY), Stank_102 (E), Stark_101 (E), StellaBean_99 (E), StevieBAY_37 (AO2), Stillion_89 (CP), Sting_85 (CP), StolenFromERC_102 (E), StormChicken_101 (E), StuartMinion_46 (AS3), Sunfish_74 (singleton), Sunny_ (EC), Sunshine23_50 (FG), Sweetums_43 (GF), TBrady12_103 (E), TZGordon_56 (CU1), TaeYoung_37 (AO2), Tank_72 (AP1), Tarkin_99 (E), TaylorSipht_54 (AS1), TeamEdward_100 (E), TeardropMSU_96 (E), Teaspoon_101 (E), Teng_47 (GF), Terij_60 (EI), Terminus_103 (E), ThayneTheZag_76 (AY), Thimble_102 (E), Thresher_102 (E), Tiff81_67 (AY), Timinator_37 (AO2), TinaLin_53 (CU1), Toad24_55 (AS1), ToastyFinz_43 (BC1), Tomaszewski_95 (E), Toniann_126 (CQ1), Tophat_102 (AR), Toto_98 (E), Towmatter_74 (DL), Traaww1_96 (E), TripleJ_56 (FJ), Tubberson_44 (BC1), Tuco_101 (E), Ukulele_95 (E), ValentiniPuff_105 (GL), VanLee_42 (KA), Vendetta_54 (CU1), Vibaki_38 (FL), Violeta_47 (GA), Vitus_39 (FL), Vondra_44 (BP), Vulpecula_52 (AS1), Waltz_14 (AL), Warren_45 (GA), Westrich_63 (AS1), Wheelbite_14 (AL), Wiggin_102 (E), Wilca_64 (EG), Wilde_74 (AP1), WileyE_58 (AS1), Willez_95 (E), WilliamBoone_125 (CQ1), Winchester007_61 (GA), Windest_74 (AY), Wrackline_57 (GF), Wyborn_38 (AO2), Xandras_99 (E), YassJohnny_97 (E), Yeti_66 (EC), YoungHarleezy_71 (AY), Youngblood_103 (E), Yvonnetastic_132 (DD), Zartrosa_37 (AO2), Zhuangyuan_60 (AS2), Zixiang_56 (AS1), Zucker_67 (FN), xkcd_103 (E),

Start 102:
• Found in 1 of 704 (0.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: REQ3_26 (singleton),

Start 103:
• Found in 101 of 704 (14.3%) of genes in pham
• Manual Annotations of this start: 76 of 547
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acquire49_82 (L1), Aegeus_92 (L5), Appletree2_81 (L1), Archie_82 (L2), AvadaKedavra_82 (L1), Baoshan_83 (L2), Baudelaire_92 (L5), Bazzle_83 (L2), Bellis_84 (L3), BigCheese_85 (L2), BobsGarage_85 (L2), BourbonZero_85 (L3), BrainDrainer_83 (L4), Breezona_85 (L2), Bromden_84 (L4), Calm_84 (L1), Chaser_82 (L4), ChutneyChips_82 (L4), CicholasNage_79 (L1), Claus_84 (L2), Clautastrophe_82 (L3), Crossroads_85 (L2), DHan_89 (L2), DanBing_85 (L2), DirkDirk_79 (L1), Douge_84 (L4), Douzhi_83 (L4), DrSeegs_85 (L2), DuncansLeg_84 (L3), DyoEdafos_87 (L4), EastWest_38 (AO),

Ellson_83 (L3), Enceladus_79 (L1), Faith1_85 (L2), FarmResident_84 (L4), Finemlucis_85 (L2), Finkle_70 (singleton), Finnry_83 (L3), Gabriela_85 (L2), Gardann_85 (L2), GuuelaD_83 (L2), Hafay_86 (L2), Halena_80 (L1), Itos_85 (L2), Jobypre_84 (L3), JoeDirt_83 (L1), Jubie_83 (L3), Kahlid_85 (L2), Kingsolomon_81 (L3), KirDoubleO7_82 (L3), Kropertea_79 (L4), Krypton555_84 (L3), LeBron_81 (L1), Lewan_86 (L2), LilDestine_84 (L2), LiyuLake_83 (L3), Loadrie_83 (L2), Lolly9_82 (L3), Lumos_84 (L3), Lynnae_87 (L2), MAckerman_81 (L1), Miley16_85 (L2), MiniLon_87 (L3), MiniMac_87 (L3), MkaliMitinis3_86 (L2), Moostard_81 (L3), MsGreen_84 (L3), Netyap_86 (L2), Nicholas_81 (L3), Nicholasp3_85 (L2), OhShagHennessy_79 (L1), OverPar_87 (L2), PYPDinur_82 (L4), Poochiewood_80 (L1), Quby_83 (L4), Red305_85 (L3), Rose5_83 (L1), Rossetti_86 (L2), Rumpelstiltskin_82 (L2), Samty_82 (L3), Sarshaun_86 (L2), Sheng711_84 (L4), Silverleaf_82 (L1), Snenia_83 (L3), SoJulia_87 (L2), Soap141_85 (L2), Tourach_84 (L2), TriFive_85 (L3), Tyson_83 (L1), UPIE_81 (L1), Underpass_77 (L2), Vetrix_84 (L2), Wamburgrxpress_82 (L1), Whirlwind_84 (L3), Wigglewiggle_84 (L2), Wilder_86 (L2), Winky_85 (L2), Wyatt2_83 (L1), Zakai_86 (L2), Zaria_83 (L1), ZhongYanYuan_83 (L2),

Start 104:
• Found in 6 of 704 (0.9%) of genes in pham
• Manual Annotations of this start: 6 of 547
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anatole_47 (BV), B3_49 (BV), Doucette_53 (BW), E1_47 (BV), E6_53 (BW), G4_64 (BW),

Start 105:
• Found in 1 of 704 (0.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigAnti_47 (singleton),

Start 106:
• Found in 18 of 704 (2.6%) of genes in pham
• Manual Annotations of this start: 8 of 547
• Called 77.8% of time when present
• Phage (with cluster) where this start called: AirForce1_45 (FL), Auxilium_68 (AY), Cassini_67 (FN), Divya_48 (FL), Globfish_72 (AY), GumGum_75 (AY), Hillester_76 (AY), Jinkies_44 (FL), MidnightRain_74 (AY), RadFad_76 (AY), Sashimi_69 (AY), SpicyFrank_74 (AY), SunnyJune_46 (FL), Vopal_73 (AY),

Start 115:
• Found in 11 of 704 (1.6%) of genes in pham
• No Manual Annotations of this start.
• Called 9.1% of time when present
• Phage (with cluster) where this start called: NewKitty_74 (AY),

Start 116:
• Found in 17 of 704 (2.4%) of genes in pham
• No Manual Annotations of this start.
• Called 5.9% of time when present
• Phage (with cluster) where this start called: pZL12_1c (singleton),

Start 120:

• Found in 167 of 704 (23.7%) of genes in pham
• No Manual Annotations of this start.
• Called 1.8% of time when present
• Phage (with cluster) where this start called: Becksu_98 (E), NonchalantPear_98 (E), Ptowny_96 (E),

Summary by clusters:

There are 64 clusters represented in this pham: FQ, singleton, FS, AO1, AP2, AP3, DD, FG, DL, AP4, FB, BW, M1, CU4, M3, M2, FH, EI, FJ, V, FL, FM, FN, CU5, GL, CU3, CU2, CU1, BX, CQ2, CQ1, AS3, AS2, AS1, BO, E, EG, AL, EC, GF, L4, AR, L2, AO2, GA, L1, AY, CP, UNK, EQ, EP, ES, AP1, KA, AP, AO, BV, AO3, L5, BP, BC3, BC1, BC2, L3,

Info for manual annotations of cluster AL:
•Start number 101 was manually annotated 5 times for cluster AL.

Info for manual annotations of cluster AO:
•Start number 103 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:
•Start number 101 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:
•Start number 101 was manually annotated 17 times for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 101 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster AP:
•Start number 101 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:
•Start number 101 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:
•Start number 101 was manually annotated 10 times for cluster AP2.

Info for manual annotations of cluster AP3:
•Start number 101 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:
•Start number 101 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster AR:
•Start number 101 was manually annotated 19 times for cluster AR.

Info for manual annotations of cluster AS1:
•Start number 101 was manually annotated 12 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 101 was manually annotated 4 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 101 was manually annotated 14 times for cluster AS3.

Info for manual annotations of cluster AY:
•Start number 101 was manually annotated 27 times for cluster AY.
•Start number 106 was manually annotated 7 times for cluster AY.

Info for manual annotations of cluster BC1:
•Start number 101 was manually annotated 6 times for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 101 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:
•Start number 101 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster BO:
•Start number 97 was manually annotated 3 times for cluster BO.

Info for manual annotations of cluster BP:
•Start number 101 was manually annotated 11 times for cluster BP.

Info for manual annotations of cluster BV:
•Start number 104 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster BW:
•Start number 104 was manually annotated 3 times for cluster BW.

Info for manual annotations of cluster CP:
•Start number 101 was manually annotated 5 times for cluster CP.

Info for manual annotations of cluster CQ1:
•Start number 101 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 101 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CU1:
•Start number 101 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 101 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:
•Start number 101 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:
•Start number 101 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DD:
•Start number 101 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DL:
•Start number 101 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster E:
•Start number 41 was manually annotated 1 time for cluster E.
•Start number 101 was manually annotated 126 times for cluster E.

Info for manual annotations of cluster EC:
•Start number 96 was manually annotated 11 times for cluster EC.
•Start number 101 was manually annotated 36 times for cluster EC.

Info for manual annotations of cluster EG:
•Start number 101 was manually annotated 2 times for cluster EG.

Info for manual annotations of cluster EI:
•Start number 101 was manually annotated 7 times for cluster EI.

Info for manual annotations of cluster EP:
•Start number 101 was manually annotated 1 time for cluster EP.

Info for manual annotations of cluster EQ:
•Start number 101 was manually annotated 2 times for cluster EQ.

Info for manual annotations of cluster FB:
•Start number 101 was manually annotated 6 times for cluster FB.

Info for manual annotations of cluster FG:
•Start number 101 was manually annotated 3 times for cluster FG.

Info for manual annotations of cluster FH:
•Start number 101 was manually annotated 7 times for cluster FH.

Info for manual annotations of cluster FJ:
•Start number 101 was manually annotated 2 times for cluster FJ.

Info for manual annotations of cluster FL:
•Start number 101 was manually annotated 4 times for cluster FL.
•Start number 106 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FM:
•Start number 101 was manually annotated 2 times for cluster FM.

Info for manual annotations of cluster FN:
•Start number 101 was manually annotated 3 times for cluster FN.

Info for manual annotations of cluster FQ:
•Start number 100 was manually annotated 3 times for cluster FQ.

Info for manual annotations of cluster FS:
•Start number 101 was manually annotated 1 time for cluster FS.

Info for manual annotations of cluster GA:
•Start number 101 was manually annotated 11 times for cluster GA.

Info for manual annotations of cluster GF:
•Start number 101 was manually annotated 4 times for cluster GF.

Info for manual annotations of cluster GL:
•Start number 101 was manually annotated 1 time for cluster GL.

Info for manual annotations of cluster KA:
•Start number 101 was manually annotated 1 time for cluster KA.

Info for manual annotations of cluster L1:
•Start number 103 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 103 was manually annotated 30 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 103 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 103 was manually annotated 4 times for cluster L4.

Info for manual annotations of cluster L5:
•Start number 103 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster M1:
•Start number 97 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 97 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 97 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:
•Start number 100 was manually annotated 5 times for cluster V.

Gene Information:

Gene: 244_101 Start: 59239, Stop: 59679, Start Num: 101
Candidate Starts for 244_101:
(35, 59038), (36, 59041), (Start: 41 @59068 has 1 MA's), (42, 59071), (51, 59113), (71, 59167), (Start: 101 @59239 has 411 MA's), (124, 59338), (137, 59434), (148, 59470), (160, 59536), (179, 59584),

Gene: ABCat_97 Start: 60224, Stop: 60664, Start Num: 101
Candidate Starts for ABCat_97:
(Start: 101 @60224 has 411 MA's), (124, 60323), (148, 60455), (160, 60521), (179, 60569),

Gene: AWGoat_69 Start: 49925, Stop: 49359, Start Num: 101
Candidate Starts for AWGoat_69:
(Start: 101 @49925 has 411 MA's), (117, 49871), (120, 49844), (129, 49784), (136, 49739), (137, 49727), (143, 49703), (159, 49631), (204, 49412),

Gene: Abba_37 Start: 29639, Stop: 30190, Start Num: 101
Candidate Starts for Abba_37:
(Start: 101 @29639 has 411 MA's), (131, 29804), (143, 29864), (175, 29978), (179, 29990),

Gene: AbbyDaisy_73 Start: 38801, Stop: 39268, Start Num: 101
Candidate Starts for AbbyDaisy_73:
(24, 38504), (70, 38717), (Start: 101 @38801 has 411 MA's), (135, 38993), (182, 39170),

Gene: Abidatro_55 Start: 34615, Stop: 35133, Start Num: 101
Candidate Starts for Abidatro_55:
(Start: 101 @34615 has 411 MA's), (120, 34696), (123, 34711), (143, 34837), (145, 34843), (148, 34849), (163, 34921),

Gene: Abscondus_125 Start: 71279, Stop: 71788, Start Num: 101
Candidate Starts for Abscondus_125:
(Start: 101 @71279 has 411 MA's), (109, 71294), (112, 71303), (143, 71501), (179, 71627), (186, 71678), (194, 71738),

Gene: Acquire49_82 Start: 53525, Stop: 53908, Start Num: 103
Candidate Starts for Acquire49_82:
(Start: 103 @53525 has 76 MA's), (123, 53618), (130, 53672), (133, 53690), (148, 53750), (158, 53807),

Gene: AdaS_69 Start: 36141, Stop: 36647, Start Num: 101
Candidate Starts for AdaS_69:
(Start: 101 @36141 has 411 MA's), (120, 36222), (139, 36360),

Gene: Adnama_104 Start: 59534, Stop: 59974, Start Num: 101
Candidate Starts for Adnama_104:
(35, 59333), (36, 59336), (Start: 41 @59363 has 1 MA's), (42, 59366), (51, 59408), (71, 59462), (Start: 101 @59534 has 411 MA's), (124, 59633), (148, 59765), (160, 59831), (179, 59879),

Gene: AdoptaAdorbs_54 Start: 33395, Stop: 33904, Start Num: 101
Candidate Starts for AdoptaAdorbs_54:
(Start: 101 @33395 has 411 MA's), (116, 33434), (120, 33476), (127, 33509), (133, 33569), (143, 33617), (148, 33629), (158, 33686), (163, 33701), (170, 33722), (179, 33743),

Gene: Aegeus_92 Start: 56890, Stop: 57282, Start Num: 103
Candidate Starts for Aegeus_92:
(92, 56872), (Start: 103 @56890 has 76 MA's), (111, 56905), (145, 57115), (148, 57121),

Gene: Aikyam_70 Start: 36571, Stop: 37089, Start Num: 101
Candidate Starts for Aikyam_70:
(Start: 101 @36571 has 411 MA's), (125, 36673), (139, 36790),

Gene: AirForce1_45 Start: 32559, Stop: 32999, Start Num: 106
Candidate Starts for AirForce1_45:
(Start: 106 @32559 has 8 MA's), (121, 32634),

Gene: Alatato_54 Start: 31377, Stop: 31928, Start Num: 101
Candidate Starts for Alatato_54:
(Start: 101 @31377 has 411 MA's), (121, 31461), (139, 31596),

Gene: AlexMinion_56 Start: 33422, Stop: 33934, Start Num: 101
Candidate Starts for AlexMinion_56:
(Start: 101 @33422 has 411 MA's), (117, 33476), (127, 33536), (130, 33578), (133, 33596), (163, 33728), (170, 33749),

Gene: Altadena_40 Start: 29404, Stop: 29982, Start Num: 101
Candidate Starts for Altadena_40:
(Start: 101 @29404 has 411 MA's), (130, 29560), (143, 29626), (145, 29632), (158, 29695), (189, 29821),

Gene: Altheas_60 Start: 43871, Stop: 43149, Start Num: 101
Candidate Starts for Altheas_60:
(Start: 101 @43871 has 411 MA's), (131, 43709), (143, 43649), (146, 43640), (148, 43637), (179, 43523), (181, 43514), (185, 43472), (196, 43379), (201, 43313), (202, 43292), (203, 43280), (209, 43247), (210, 43226),

Gene: Altostratus_62 Start: 36172, Stop: 36696, Start Num: 101
Candidate Starts for Altostratus_62:
(48, 36022), (54, 36043), (Start: 101 @36172 has 411 MA's), (137, 36370), (148, 36406), (170, 36499), (179, 36520),

Gene: Amanises_62 Start: 34987, Stop: 35466, Start Num: 101
Candidate Starts for Amanises_62:
(Start: 101 @34987 has 411 MA's), (120, 35068), (133, 35161), (143, 35209), (145, 35215), (163, 35293), (181, 35344),

Gene: Amao_100 Start: 59648, Stop: 60088, Start Num: 101
Candidate Starts for Amao_100:
(78, 59591), (Start: 101 @59648 has 411 MA's), (124, 59747), (148, 59879), (160, 59945), (179, 59993),

Gene: AmericanBeauty_104 Start: 59774, Stop: 60214, Start Num: 101
Candidate Starts for AmericanBeauty_104:
(35, 59573), (36, 59576), (Start: 41 @59603 has 1 MA's), (42, 59606), (51, 59648), (71, 59702), (Start: 101 @59774 has 411 MA's), (120, 59855), (124, 59873), (148, 60005), (160, 60071), (179, 60119),

Gene: AmiCi24_54 Start: 33504, Stop: 34013, Start Num: 101
Candidate Starts for AmiCi24_54:
(Start: 101 @33504 has 411 MA's), (116, 33543), (120, 33585), (127, 33618), (133, 33678), (143, 33726), (148, 33738), (158, 33795), (163, 33810), (170, 33831), (179, 33852),

Gene: Amo99_89 Start: 55869, Stop: 56291, Start Num: 101
Candidate Starts for Amo99_89:
(34, 55644), (40, 55683), (60, 55764), (95, 55866), (Start: 101 @55869 has 411 MA's), (121, 55953), (125, 55971), (159, 56163), (160, 56169),

Gene: Amphitrite_55 Start: 33394, Stop: 33903, Start Num: 101
Candidate Starts for Amphitrite_55:

(Start: 101 @33394 has 411 MA's), (116, 33433), (120, 33475), (127, 33508), (133, 33568), (143, 33616), (148, 33628), (158, 33685), (163, 33700), (170, 33721), (179, 33742),

Gene: Anatole_47 Start: 31132, Stop: 31596, Start Num: 104
Candidate Starts for Anatole_47:
(Start: 104 @31132 has 6 MA's), (123, 31222), (125, 31228), (132, 31291), (145, 31351),

Gene: Andrew_57 Start: 33845, Stop: 34357, Start Num: 101
Candidate Starts for Andrew_57:
(89, 33827), (Start: 101 @33845 has 411 MA's), (120, 33926), (123, 33941), (133, 34019), (137, 34043), (143, 34067), (145, 34073), (148, 34079), (158, 34136), (179, 34193), (198, 34271),

Gene: Anekin_74 Start: 39408, Stop: 39929, Start Num: 101
Candidate Starts for Anekin_74:
(Start: 101 @39408 has 411 MA's), (129, 39549), (139, 39627), (159, 39714),

Gene: Antares_64 Start: 40804, Stop: 41310, Start Num: 101
Candidate Starts for Antares_64:
(Start: 101 @40804 has 411 MA's), (108, 40819), (143, 41026), (163, 41110), (179, 41152),

Gene: Antrice_55 Start: 33380, Stop: 33889, Start Num: 101
Candidate Starts for Antrice_55:
(62, 33275), (Start: 101 @33380 has 411 MA's), (123, 33476), (138, 33581), (148, 33614), (175, 33716),

Gene: Antuna_47 Start: 28781, Stop: 29272, Start Num: 101
Candidate Starts for Antuna_47:
(Start: 101 @28781 has 411 MA's), (137, 28979), (143, 29003), (179, 29129),

Gene: Aphelion_126 Start: 72342, Stop: 72881, Start Num: 101
Candidate Starts for Aphelion_126:
(Start: 101 @72342 has 411 MA's), (109, 72357), (112, 72366), (143, 72564), (179, 72690), (186, 72741), (194, 72801),

Gene: ApoKipo_15 Start: 9802, Stop: 10389, Start Num: 101
Candidate Starts for ApoKipo_15:
(Start: 101 @9802 has 411 MA's), (120, 9883), (136, 9988), (137, 10000), (150, 10045), (179, 10150),

Gene: Appa_45 Start: 28538, Stop: 29032, Start Num: 101
Candidate Starts for Appa_45:
(Start: 101 @28538 has 411 MA's), (143, 28760), (150, 28781), (179, 28886),

Gene: Appletree2_81 Start: 53136, Stop: 53519, Start Num: 103
Candidate Starts for Appletree2_81:
(Start: 103 @53136 has 76 MA's), (123, 53229), (130, 53283), (133, 53301), (148, 53361), (158, 53418),

Gene: ArV1_088 Start: 62726, Stop: 63295, Start Num: 101
Candidate Starts for ArV1_088:
(Start: 101 @62726 has 411 MA's), (112, 62750), (120, 62807), (131, 62888), (137, 62924), (143, 62948), (145, 62954), (148, 62960), (163, 63032), (170, 63053), (179, 63074), (204, 63242),

Gene: Archie_82 Start: 55052, Stop: 55447, Start Num: 103

Candidate Starts for Archie_82:
(Start: 103 @55052 has 76 MA's), (117, 55103), (119, 55124), (123, 55145), (129, 55184), (130, 55199), (133, 55217), (146, 55274), (148, 55277), (154, 55307),

Gene: Argent26_104 Start: 59458, Stop: 59898, Start Num: 101
Candidate Starts for Argent26_104:
(35, 59257), (36, 59260), (Start: 41 @59287 has 1 MA's), (42, 59290), (51, 59332), (71, 59386), (Start: 101 @59458 has 411 MA's), (124, 59557), (148, 59689), (160, 59755), (179, 59803),

Gene: Ariadne_74 Start: 42439, Stop: 42945, Start Num: 101
Candidate Starts for Ariadne_74:
(64, 42349), (81, 42394), (Start: 97 @42436 has 26 MA's), (Start: 101 @42439 has 411 MA's), (133, 42613), (143, 42661), (145, 42667), (163, 42745), (179, 42787),

Gene: ArizonaGT_46 Start: 30696, Stop: 31175, Start Num: 101
Candidate Starts for ArizonaGT_46:
(Start: 101 @30696 has 411 MA's), (158, 30987),

Gene: Asriel_98 Start: 57871, Stop: 58311, Start Num: 101
Candidate Starts for Asriel_98:
(35, 57670), (36, 57673), (Start: 41 @57700 has 1 MA's), (42, 57703), (51, 57745), (71, 57799), (Start: 101 @57871 has 411 MA's), (120, 57952), (124, 57970), (148, 58102), (160, 58168), (179, 58216),

Gene: Atlantica_55 Start: 33506, Stop: 34015, Start Num: 101
Candidate Starts for Atlantica_55:
(Start: 101 @33506 has 411 MA's), (116, 33545), (120, 33587), (127, 33620), (133, 33680), (143, 33728), (148, 33740), (158, 33797), (163, 33812), (170, 33833), (179, 33854),

Gene: Auspice_67 Start: 43863, Stop: 44309, Start Num: 97
Candidate Starts for Auspice_67:
(84, 43827), (Start: 97 @43863 has 26 MA's), (120, 43947), (131, 44028), (136, 44052), (179, 44211),

Gene: Austintatious_43 Start: 28177, Stop: 28638, Start Num: 101
Candidate Starts for Austintatious_43:
(16, 27802), (36, 27961), (61, 28069), (Start: 101 @28177 has 411 MA's), (131, 28339), (132, 28345),

Gene: Auxilium_68 Start: 35492, Stop: 35971, Start Num: 106
Candidate Starts for Auxilium_68:
(Start: 106 @35492 has 8 MA's), (117, 35537), (141, 35693),

Gene: AvadaKedavra_82 Start: 53604, Stop: 53987, Start Num: 103
Candidate Starts for AvadaKedavra_82:
(Start: 103 @53604 has 76 MA's), (123, 53697), (130, 53751), (133, 53769), (148, 53829), (158, 53886),

Gene: AxeJC_44 Start: 30398, Stop: 30877, Start Num: 101
Candidate Starts for AxeJC_44:
(Start: 101 @30398 has 411 MA's), (158, 30689),

Gene: Azaz_56 Start: 33586, Stop: 34098, Start Num: 101
Candidate Starts for Azaz_56:
(Start: 101 @33586 has 411 MA's), (120, 33667), (127, 33700), (133, 33760), (143, 33808), (148, 33820), (158, 33877), (163, 33892), (170, 33913), (179, 33934),

Gene: Aziz_74 Start: 45899, Stop: 46336, Start Num: 97
Candidate Starts for Aziz_74:
(Start: 97 @45899 has 26 MA's), (120, 45983), (131, 46064),

Gene: Azrael100_77 Start: 49155, Stop: 49544, Start Num: 100
Candidate Starts for Azrael100_77:
(Start: 100 @49155 has 8 MA's), (124, 49251), (130, 49302), (133, 49320), (145, 49374), (159, 49440), (179, 49494),

Gene: B3_49 Start: 31795, Stop: 32259, Start Num: 104
Candidate Starts for B3_49:
(Start: 104 @31795 has 6 MA's), (123, 31885), (125, 31891), (132, 31954), (145, 32014),

Gene: BaboJay_100 Start: 60412, Stop: 60852, Start Num: 101
Candidate Starts for BaboJay_100:
(Start: 101 @60412 has 411 MA's), (124, 60511), (148, 60643), (160, 60709), (179, 60757),

Gene: Babushka_52 Start: 33317, Stop: 33829, Start Num: 101
Candidate Starts for Babushka_52:
(Start: 101 @33317 has 411 MA's), (108, 33332), (120, 33398), (123, 33413), (127, 33431), (133, 33491), (145, 33545), (148, 33551), (158, 33608), (163, 33623), (208, 33788),

Gene: Bachita_129 Start: 72298, Stop: 72807, Start Num: 101
Candidate Starts for Bachita_129:
(Start: 101 @72298 has 411 MA's), (109, 72313), (112, 72322), (143, 72520), (179, 72646), (186, 72697), (194, 72757),

Gene: BadStone_97 Start: 59793, Stop: 60233, Start Num: 101
Candidate Starts for BadStone_97:
(Start: 101 @59793 has 411 MA's), (124, 59892), (148, 60024), (160, 60090), (179, 60138),

Gene: Balomoji_100 Start: 59654, Stop: 60094, Start Num: 101
Candidate Starts for Balomoji_100:
(35, 59453), (36, 59456), (Start: 41 @59483 has 1 MA's), (42, 59486), (51, 59528), (71, 59582), (Start: 101 @59654 has 411 MA's), (124, 59753), (137, 59849), (148, 59885), (160, 59951), (179, 59999),

Gene: Banquo_53 Start: 35074, Stop: 35562, Start Num: 101
Candidate Starts for Banquo_53:
(Start: 101 @35074 has 411 MA's), (131, 35236), (156, 35353), (158, 35365), (159, 35368), (163, 35380),

Gene: Bantam_84 Start: 57099, Stop: 56536, Start Num: 101
Candidate Starts for Bantam_84:
(Start: 101 @57099 has 411 MA's), (130, 56937), (163, 56766), (183, 56697),

Gene: Baoshan_83 Start: 55708, Stop: 56106, Start Num: 103
Candidate Starts for Baoshan_83:
(Start: 103 @55708 has 76 MA's), (117, 55759), (119, 55780), (123, 55801), (129, 55840), (130, 55855), (133, 55873), (146, 55930), (148, 55933), (158, 55990), (170, 56026),

Gene: Barbarian_99 Start: 57871, Stop: 58311, Start Num: 101
Candidate Starts for Barbarian_99:

(35, 57670), (36, 57673), (Start: 41 @57700 has 1 MA's), (42, 57703), (51, 57745), (71, 57799), (Start: 101 @57871 has 411 MA's), (120, 57952), (124, 57970), (148, 58102), (160, 58168), (179, 58216),

Gene: BarretLemon_37 Start: 30898, Stop: 31434, Start Num: 101
Candidate Starts for BarretLemon_37:
(Start: 101 @30898 has 411 MA's), (112, 30922), (143, 31120), (179, 31246), (200, 31342),

Gene: Basilisk_53 Start: 33835, Stop: 34356, Start Num: 101
Candidate Starts for Basilisk_53:
(Start: 101 @33835 has 411 MA's), (120, 33916), (143, 34057), (145, 34063), (181, 34192),

Gene: Bask21_100 Start: 58510, Stop: 58950, Start Num: 101
Candidate Starts for Bask21_100:
(35, 58309), (36, 58312), (Start: 41 @58339 has 1 MA's), (42, 58342), (51, 58384), (71, 58438), (Start: 101 @58510 has 411 MA's), (120, 58591), (124, 58609), (148, 58741), (160, 58807), (179, 58855),

Gene: BasketStar_72 Start: 38904, Stop: 39422, Start Num: 101
Candidate Starts for BasketStar_72:
(Start: 101 @38904 has 411 MA's), (125, 39006), (139, 39123),

Gene: Baudelaire_92 Start: 56890, Stop: 57282, Start Num: 103
Candidate Starts for Baudelaire_92:
(92, 56872), (Start: 103 @56890 has 76 MA's), (111, 56905), (145, 57115), (148, 57121),

Gene: Bauer_65 Start: 36668, Stop: 37132, Start Num: 101
Candidate Starts for Bauer_65:
(Start: 101 @36668 has 411 MA's), (124, 36767), (135, 36860), (182, 37037),

Gene: Bazzle_83 Start: 55608, Stop: 56003, Start Num: 103
Candidate Starts for Bazzle_83:
(Start: 103 @55608 has 76 MA's), (117, 55659), (119, 55680), (123, 55701), (130, 55755), (133, 55773), (146, 55830), (148, 55833), (154, 55863),

Gene: Beagle_98 Start: 57722, Stop: 57117, Start Num: 101
Candidate Starts for Beagle_98:
(Start: 101 @57722 has 411 MA's), (117, 57668), (131, 57560), (159, 57428), (160, 57422), (163, 57416),

Gene: BeagleBug_63 Start: 40584, Stop: 41090, Start Num: 101
Candidate Starts for BeagleBug_63:
(Start: 101 @40584 has 411 MA's), (108, 40599), (143, 40806), (163, 40890), (179, 40932),

Gene: Beans_35 Start: 30601, Stop: 31176, Start Num: 101
Candidate Starts for Beans_35:
(Start: 101 @30601 has 411 MA's), (112, 30625), (143, 30823), (175, 30937), (197, 31081),

Gene: Becksu_98 Start: 59928, Stop: 60287, Start Num: 120
Candidate Starts for Becksu_98:
(35, 59646), (36, 59649), (Start: 41 @59676 has 1 MA's), (42, 59679), (51, 59721), (71, 59775), (Start: 101 @59847 has 411 MA's), (120, 59928), (124, 59946), (148, 60078), (160, 60144), (179, 60192),

Gene: BellaJr_64 Start: 36885, Stop: 37349, Start Num: 101
Candidate Starts for BellaJr_64:

(24, 36588), (70, 36801), (Start: 101 @36885 has 411 MA's), (135, 37077), (140, 37107), (182, 37254),

Gene: Bellis_84 Start: 55408, Stop: 55791, Start Num: 103
Candidate Starts for Bellis_84:
(Start: 103 @55408 has 76 MA's), (118, 55468), (119, 55480), (123, 55501), (130, 55561), (133, 55579), (148, 55639), (170, 55729),

Gene: Bench_103 Start: 60413, Stop: 60853, Start Num: 101
Candidate Starts for Bench_103:
(Start: 101 @60413 has 411 MA's), (124, 60512), (137, 60608), (148, 60644), (160, 60710), (179, 60758),

Gene: BenchScraper_72 Start: 37528, Stop: 38034, Start Num: 101
Candidate Starts for BenchScraper_72:
(Start: 101 @37528 has 411 MA's), (120, 37609), (139, 37747), (150, 37783), (159, 37834),

Gene: BetaFish_96 Start: 57938, Stop: 57333, Start Num: 101
Candidate Starts for BetaFish_96:
(Start: 101 @57938 has 411 MA's), (117, 57884), (131, 57776), (159, 57644), (160, 57638), (163, 57632), (180, 57587),

Gene: Bhageatrice_76 Start: 41192, Stop: 41716, Start Num: 101
Candidate Starts for Bhageatrice_76:
(Start: 101 @41192 has 411 MA's), (139, 41411), (160, 41504), (167, 41519),

Gene: BigAnti_47 Start: 43251, Stop: 43760, Start Num: 105
Candidate Starts for BigAnti_47:
(105, 43251), (112, 43266), (123, 43338), (130, 43395), (132, 43407), (136, 43425), (145, 43467), (157, 43530), (158, 43536), (162, 43551), (173, 43578), (174, 43584), (177, 43593),

Gene: BigBubba_100 Start: 58566, Stop: 59006, Start Num: 101
Candidate Starts for BigBubba_100:
(35, 58365), (36, 58368), (Start: 41 @58395 has 1 MA's), (42, 58398), (51, 58440), (71, 58494), (Start: 101 @58566 has 411 MA's), (120, 58647), (124, 58665), (137, 58761), (148, 58797), (160, 58863), (179, 58911),

Gene: BigCheese_85 Start: 55471, Stop: 55857, Start Num: 103
Candidate Starts for BigCheese_85:
(Start: 103 @55471 has 76 MA's), (117, 55522), (119, 55543), (123, 55564), (129, 55603), (130, 55618), (133, 55636), (146, 55693), (148, 55696), (158, 55753),

Gene: BigDome_37 Start: 30890, Stop: 31423, Start Num: 101
Candidate Starts for BigDome_37:
(Start: 101 @30890 has 411 MA's), (112, 30914), (143, 31112), (175, 31226), (179, 31238), (200, 31331),

Gene: BilboSwaggins_98 Start: 60193, Stop: 60633, Start Num: 101
Candidate Starts for BilboSwaggins_98:
(Start: 101 @60193 has 411 MA's), (124, 60292), (137, 60388), (148, 60424), (160, 60490), (179, 60538),

Gene: BillyTP_73 Start: 39383, Stop: 39889, Start Num: 101
Candidate Starts for BillyTP_73:

(Start: 101 @39383 has 411 MA's), (120, 39464), (139, 39602),

Gene: Bioscum_46 Start: 30484, Stop: 30945, Start Num: 101
Candidate Starts for Bioscum_46:
(Start: 101 @30484 has 411 MA's), (131, 30646), (132, 30652),

Gene: BirdInFrench_64 Start: 43759, Stop: 43046, Start Num: 101
Candidate Starts for BirdInFrench_64:
(Start: 101 @43759 has 411 MA's), (Start: 106 @43747 has 8 MA's), (115, 43723), (127, 43642), (131, 43594), (138, 43555), (159, 43456), (166, 43435),

Gene: BlackJade_52 Start: 34209, Stop: 34730, Start Num: 100
Candidate Starts for BlackJade_52:
(Start: 100 @34209 has 8 MA's), (120, 34290), (131, 34371), (136, 34395), (148, 34446), (159, 34506), (198, 34674),

Gene: BlackSpider_59 Start: 35527, Stop: 36036, Start Num: 101
Candidate Starts for BlackSpider_59:
(Start: 101 @35527 has 411 MA's), (139, 35746),

Gene: Blett_45 Start: 28732, Stop: 29223, Start Num: 101
Candidate Starts for Blett_45:
(Start: 101 @28732 has 411 MA's), (143, 28954), (150, 28975), (163, 29038), (179, 29080),

Gene: BlueShadow_70 Start: 38419, Stop: 38937, Start Num: 101
Candidate Starts for BlueShadow_70:
(Start: 101 @38419 has 411 MA's), (125, 38521), (139, 38638),

Gene: BobsGarage_85 Start: 55471, Stop: 55857, Start Num: 103
Candidate Starts for BobsGarage_85:
(Start: 103 @55471 has 76 MA's), (117, 55522), (119, 55543), (123, 55564), (129, 55603), (130, 55618), (133, 55636), (146, 55693), (148, 55696), (158, 55753),

Gene: Bogg_100 Start: 59733, Stop: 60173, Start Num: 101
Candidate Starts for Bogg_100:
(Start: 101 @59733 has 411 MA's), (124, 59832), (137, 59928), (148, 59964), (160, 60030), (179, 60078),

Gene: Bolt007_43 Start: 32404, Stop: 32961, Start Num: 101
Candidate Starts for Bolt007_43:
(Start: 101 @32404 has 411 MA's), (143, 32626),

Gene: Bongo_67 Start: 43867, Stop: 44313, Start Num: 97
Candidate Starts for Bongo_67:
(84, 43831), (Start: 97 @43867 has 26 MA's), (120, 43951), (131, 44032), (136, 44056), (179, 44215),

Gene: BossLady_37 Start: 30876, Stop: 31424, Start Num: 101
Candidate Starts for BossLady_37:
(68, 30789), (Start: 101 @30876 has 411 MA's), (112, 30900), (133, 31050), (136, 31062), (143, 31098), (170, 31203), (179, 31224), (197, 31308),

Gene: BourbonZero_85 Start: 55437, Stop: 55820, Start Num: 103
Candidate Starts for BourbonZero_85:

(Start: 103 @55437 has 76 MA's), (118, 55497), (119, 55509), (123, 55530), (130, 55590), (148, 55668), (170, 55758),

Gene: BrainDrainer_83 Start: 54240, Stop: 54647, Start Num: 103
Candidate Starts for BrainDrainer_83:
(Start: 103 @54240 has 76 MA's), (119, 54312), (123, 54333), (129, 54372), (146, 54462), (148, 54465), (184, 54606),

Gene: Bran_47 Start: 33745, Stop: 34197, Start Num: 101
Candidate Starts for Bran_47:
(2, 33049), (3, 33052), (4, 33067), (7, 33169), (8, 33190), (12, 33292), (19, 33382), (Start: 101 @33745 has 411 MA's), (120, 33829), (123, 33844), (127, 33862), (130, 33904), (138, 33949), (143, 33970), (179, 34096),

Gene: BrayBeast_55 Start: 31242, Stop: 31763, Start Num: 101
Candidate Starts for BrayBeast_55:
(Start: 101 @31242 has 411 MA's), (139, 31461),

Gene: BrazzalePHS_63 Start: 40566, Stop: 41072, Start Num: 101
Candidate Starts for BrazzalePHS_63:
(Start: 101 @40566 has 411 MA's), (108, 40581), (143, 40788), (163, 40872), (179, 40914),

Gene: Breezona_85 Start: 55471, Stop: 55857, Start Num: 103
Candidate Starts for Breezona_85:
(Start: 103 @55471 has 76 MA's), (117, 55522), (119, 55543), (123, 55564), (129, 55603), (130, 55618), (133, 55636), (146, 55693), (148, 55696), (158, 55753),

Gene: Brent_35 Start: 30565, Stop: 31143, Start Num: 101
Candidate Starts for Brent_35:
(Start: 101 @30565 has 411 MA's), (112, 30589), (115, 30601), (136, 30751), (143, 30787), (179, 30913), (197, 31024),

Gene: Brewer_94 Start: 58392, Stop: 58832, Start Num: 101
Candidate Starts for Brewer_94:
(35, 58191), (36, 58194), (Start: 41 @58221 has 1 MA's), (42, 58224), (51, 58266), (71, 58320), (Start: 101 @58392 has 411 MA's), (120, 58473), (124, 58491), (148, 58623), (160, 58689), (179, 58737),

Gene: Bricole_66 Start: 43589, Stop: 44035, Start Num: 97
Candidate Starts for Bricole_66:
(84, 43553), (Start: 97 @43589 has 26 MA's), (120, 43673), (131, 43754), (136, 43778), (179, 43937),

Gene: Bromden_84 Start: 55234, Stop: 55644, Start Num: 103
Candidate Starts for Bromden_84:
(Start: 103 @55234 has 76 MA's), (119, 55306), (123, 55327), (129, 55366), (130, 55381), (146, 55456), (148, 55459),

Gene: BruhMoment_82 Start: 54954, Stop: 54415, Start Num: 101
Candidate Starts for BruhMoment_82:
(Start: 101 @54954 has 411 MA's), (133, 54780), (136, 54768), (137, 54756),

Gene: Bruin_97 Start: 58899, Stop: 59339, Start Num: 101
Candidate Starts for Bruin_97:

(Start: 101 @58899 has 411 MA's), (124, 58998), (137, 59094), (148, 59130), (160, 59196), (179, 59244),

Gene: BrutonGaster_101 Start: 65631, Stop: 66143, Start Num: 101
Candidate Starts for BrutonGaster_101:
(Start: 101 @65631 has 411 MA's), (122, 65721), (137, 65829),

Gene: Brynnie_51 Start: 33460, Stop: 33981, Start Num: 101
Candidate Starts for Brynnie_51:
(Start: 101 @33460 has 411 MA's), (120, 33541), (143, 33682), (145, 33688), (181, 33817),

Gene: Bubbykins_106 Start: 62400, Stop: 62954, Start Num: 101
Candidate Starts for Bubbykins_106:
(Start: 101 @62400 has 411 MA's), (120, 62481), (130, 62556), (145, 62628), (148, 62634),

Gene: Buck_101 Start: 60736, Stop: 61176, Start Num: 101
Candidate Starts for Buck_101:
(Start: 101 @60736 has 411 MA's), (124, 60835), (137, 60931), (148, 60967), (160, 61033), (179, 61081),

Gene: Budgie_109 Start: 60097, Stop: 60540, Start Num: 101
Candidate Starts for Budgie_109:
(Start: 101 @60097 has 411 MA's), (119, 60172), (163, 60400),

Gene: BugsBunny_99 Start: 60212, Stop: 60652, Start Num: 101
Candidate Starts for BugsBunny_99:
(Start: 101 @60212 has 411 MA's), (124, 60311), (137, 60407), (148, 60443), (160, 60509), (179, 60557),

Gene: Bumble_38 Start: 29473, Stop: 30051, Start Num: 101
Candidate Starts for Bumble_38:
(Start: 101 @29473 has 411 MA's), (130, 29629), (133, 29647), (143, 29695), (145, 29701), (196, 29926),

Gene: Busephilis_63 Start: 40511, Stop: 41017, Start Num: 101
Candidate Starts for Busephilis_63:
(Start: 101 @40511 has 411 MA's), (108, 40526), (143, 40733), (163, 40817), (179, 40859),

Gene: Bush_46 Start: 28681, Stop: 29172, Start Num: 101
Candidate Starts for Bush_46:
(Start: 101 @28681 has 411 MA's), (143, 28903), (150, 28924), (163, 28987),

Gene: Cactus_104 Start: 59153, Stop: 59593, Start Num: 101
Candidate Starts for Cactus_104:
(Start: 101 @59153 has 411 MA's), (124, 59252), (148, 59384), (160, 59450), (179, 59498),

Gene: CalWood4100_45 Start: 31895, Stop: 32452, Start Num: 101
Candidate Starts for CalWood4100_45:
(Start: 101 @31895 has 411 MA's), (143, 32117), (158, 32186),

Gene: Calm_84 Start: 53847, Stop: 54230, Start Num: 103
Candidate Starts for Calm_84:

(Start: 103 @53847 has 76 MA's), (123, 53940), (130, 53994), (133, 54012), (148, 54072), (158, 54129),

Gene: Camara_55 Start: 33397, Stop: 33906, Start Num: 101
Candidate Starts for Camara_55:
(Start: 101 @33397 has 411 MA's), (116, 33436), (120, 33478), (127, 33511), (133, 33571), (143, 33619), (148, 33631), (158, 33688), (163, 33703), (170, 33724), (179, 33745),

Gene: Cardigan_138 Start: 77634, Stop: 78149, Start Num: 101
Candidate Starts for Cardigan_138:
(76, 77571), (Start: 101 @77634 has 411 MA's), (123, 77730), (137, 77832), (143, 77856), (194, 78099),

Gene: Carrillo_47 Start: 28654, Stop: 29145, Start Num: 101
Candidate Starts for Carrillo_47:
(Start: 101 @28654 has 411 MA's), (143, 28876), (150, 28897), (163, 28960),

Gene: Cassini_67 Start: 37137, Stop: 37616, Start Num: 106
Candidate Starts for Cassini_67:
(Start: 106 @37137 has 8 MA's), (152, 37380), (155, 37395), (159, 37431), (161, 37437),

Gene: Catfish_52 Start: 36484, Stop: 37020, Start Num: 101
Candidate Starts for Catfish_52:
(29, 36223), (33, 36253), (58, 36373), (Start: 101 @36484 has 411 MA's), (127, 36601), (137, 36685),

Gene: Chaser_82 Start: 53878, Stop: 54270, Start Num: 103
Candidate Starts for Chaser_82:
(Start: 103 @53878 has 76 MA's), (119, 53950), (123, 53971), (129, 54010), (130, 54025), (136, 54055), (146, 54100), (148, 54103), (184, 54226),

Gene: Chickaboom_54 Start: 34174, Stop: 34692, Start Num: 101
Candidate Starts for Chickaboom_54:
(Start: 101 @34174 has 411 MA's), (120, 34255), (143, 34396), (145, 34402), (158, 34465), (181, 34531),

Gene: Chicken_53 Start: 34312, Stop: 34791, Start Num: 101
Candidate Starts for Chicken_53:
(Start: 101 @34312 has 411 MA's), (145, 34540), (163, 34618), (181, 34669),

Gene: Chipper1996_1020 Start: 64351, Stop: 64920, Start Num: 101
Candidate Starts for Chipper1996_1020:
(Start: 101 @64351 has 411 MA's), (120, 64432), (130, 64507), (137, 64549), (143, 64573), (145, 64579), (148, 64585), (163, 64657), (170, 64678), (179, 64699),

Gene: Chocolat_101 Start: 64058, Stop: 64627, Start Num: 101
Candidate Starts for Chocolat_101:
(Start: 101 @64058 has 411 MA's), (120, 64139), (130, 64214), (137, 64256), (140, 64268), (143, 64280), (145, 64286), (148, 64292), (163, 64364), (170, 64385), (179, 64406),

Gene: ChosenOne_100 Start: 59101, Stop: 59541, Start Num: 101
Candidate Starts for ChosenOne_100:
(Start: 101 @59101 has 411 MA's), (124, 59200), (148, 59332), (160, 59398), (179, 59446),

Gene: ChotaBhai_100 Start: 59512, Stop: 59952, Start Num: 101
Candidate Starts for ChotaBhai_100:
(78, 59455), (Start: 101 @59512 has 411 MA's), (124, 59611), (148, 59743), (160, 59809), (179, 59857),

Gene: Chubster_101 Start: 64298, Stop: 64867, Start Num: 101
Candidate Starts for Chubster_101:
(Start: 101 @64298 has 411 MA's), (120, 64379), (130, 64454), (137, 64496), (143, 64520), (145, 64526), (148, 64532), (163, 64604), (170, 64625), (179, 64646),

Gene: ChutneyChips_82 Start: 54211, Stop: 54603, Start Num: 103
Candidate Starts for ChutneyChips_82:
(Start: 103 @54211 has 76 MA's), (119, 54283), (123, 54304), (129, 54343), (130, 54358), (136, 54388), (146, 54433), (148, 54436), (184, 54559),

Gene: CicholasNage_79 Start: 53189, Stop: 53572, Start Num: 103
Candidate Starts for CicholasNage_79:
(Start: 103 @53189 has 76 MA's), (123, 53282), (130, 53336), (133, 53354), (148, 53414), (158, 53471),

Gene: Cinna_60 Start: 41333, Stop: 41833, Start Num: 101
Candidate Starts for Cinna_60:
(Start: 101 @41333 has 411 MA's), (143, 41555), (145, 41561), (163, 41639),

Gene: Circuit_38 Start: 30441, Stop: 31019, Start Num: 101
Candidate Starts for Circuit_38:
(74, 30369), (Start: 101 @30441 has 411 MA's), (130, 30597), (133, 30615), (143, 30663), (145, 30669), (196, 30906),

Gene: Cjw1_101 Start: 61106, Stop: 61546, Start Num: 101
Candidate Starts for Cjw1_101:
(Start: 101 @61106 has 411 MA's), (124, 61205), (137, 61301), (148, 61337), (160, 61403), (179, 61451),

Gene: Claus_84 Start: 55406, Stop: 55789, Start Num: 103
Candidate Starts for Claus_84:
(Start: 103 @55406 has 76 MA's), (117, 55457), (119, 55478), (123, 55499), (129, 55538), (130, 55553), (133, 55571), (146, 55628), (148, 55631), (158, 55688), (170, 55724),

Gene: Clautastrophe_82 Start: 55406, Stop: 55789, Start Num: 103
Candidate Starts for Clautastrophe_82:
(Start: 103 @55406 has 76 MA's), (118, 55466), (119, 55478), (123, 55499), (130, 55559), (133, 55577), (148, 55637), (170, 55727),

Gene: Clawz_88 Start: 56168, Stop: 56587, Start Num: 101
Candidate Starts for Clawz_88:
(34, 55943), (40, 55982), (44, 55991), (Start: 101 @56168 has 411 MA's), (121, 56252), (123, 56264), (125, 56270), (159, 56462), (163, 56474), (171, 56495),

Gene: ClearAsMud_68 Start: 41092, Stop: 41592, Start Num: 96
Candidate Starts for ClearAsMud_68:
(Start: 96 @41092 has 11 MA's), (120, 41173), (143, 41314), (163, 41398), (179, 41440),

Gene: ClubL_126 Start: 70869, Stop: 71378, Start Num: 101
Candidate Starts for ClubL_126:
(Start: 101 @70869 has 411 MA's), (109, 70884), (112, 70893), (143, 71091), (179, 71217), (186, 71268), (194, 71328),

Gene: ColdSoup_89 Start: 55950, Stop: 56372, Start Num: 101
Candidate Starts for ColdSoup_89:
(34, 55725), (40, 55764), (60, 55845), (95, 55947), (Start: 101 @55950 has 411 MA's), (121, 56034), (125, 56052), (159, 56244), (160, 56250),

Gene: Colossa_43 Start: 32262, Stop: 32750, Start Num: 101
Candidate Starts for Colossa_43:
(94, 32253), (Start: 101 @32262 has 411 MA's), (120, 32343), (122, 32352), (130, 32418), (133, 32436), (145, 32490), (146, 32493),

Gene: Colucci_104 Start: 64674, Stop: 65246, Start Num: 101
Candidate Starts for Colucci_104:
(Start: 101 @64674 has 411 MA's), (112, 64698), (120, 64755), (131, 64836), (137, 64872), (143, 64896), (145, 64902), (148, 64908), (163, 64980), (170, 65001), (179, 65022),

Gene: Command613_102 Start: 59668, Stop: 60108, Start Num: 101
Candidate Starts for Command613_102:
(35, 59467), (36, 59470), (Start: 41 @59497 has 1 MA's), (42, 59500), (51, 59542), (71, 59596), (Start: 101 @59668 has 411 MA's), (124, 59767), (148, 59899), (160, 59965), (179, 60013),

Gene: Conboy_100 Start: 63864, Stop: 64433, Start Num: 101
Candidate Starts for Conboy_100:
(Start: 101 @63864 has 411 MA's), (112, 63888), (120, 63945), (131, 64026), (137, 64062), (143, 64086), (145, 64092), (148, 64098), (163, 64170), (170, 64191), (179, 64212),

Gene: Contagion_96 Start: 59261, Stop: 59701, Start Num: 101
Candidate Starts for Contagion_96:
(Start: 101 @59261 has 411 MA's), (124, 59360), (137, 59456), (148, 59492), (160, 59558), (179, 59606),

Gene: CookieBear_71 Start: 38002, Stop: 38508, Start Num: 101
Candidate Starts for CookieBear_71:
(Start: 101 @38002 has 411 MA's), (125, 38104), (139, 38221),

Gene: CookieDog_45 Start: 28654, Stop: 29145, Start Num: 101
Candidate Starts for CookieDog_45:
(Start: 101 @28654 has 411 MA's), (143, 28876), (150, 28897), (163, 28960),

Gene: Cookies_97 Start: 59438, Stop: 59878, Start Num: 101
Candidate Starts for Cookies_97:
(78, 59381), (Start: 101 @59438 has 411 MA's), (124, 59537), (148, 59669), (160, 59735), (179, 59783),

Gene: CosmicBrownie_67 Start: 37142, Stop: 37669, Start Num: 101
Candidate Starts for CosmicBrownie_67:
(Start: 101 @37142 has 411 MA's), (139, 37361), (187, 37574),

Gene: Cosmo_78 Start: 49156, Stop: 49545, Start Num: 100

Candidate Starts for Cosmo_78:
(Start: 100 @49156 has 8 MA's), (124, 49252), (130, 49303), (133, 49321), (145, 49375), (159, 49441), (179, 49495),

Gene: Cranjis_65 Start: 40759, Stop: 41265, Start Num: 101
Candidate Starts for Cranjis_65:
(Start: 101 @40759 has 411 MA's), (108, 40774), (143, 40981), (163, 41065), (179, 41107),

Gene: CrazyRich_63 Start: 40568, Stop: 41071, Start Num: 101
Candidate Starts for CrazyRich_63:
(Start: 101 @40568 has 411 MA's), (108, 40583), (143, 40790), (163, 40874), (179, 40916),

Gene: Crescenzo_75 Start: 40122, Stop: 40631, Start Num: 101
Candidate Starts for Crescenzo_75:
(Start: 101 @40122 has 411 MA's), (120, 40203), (139, 40341), (150, 40377), (170, 40461),

Gene: Cressida_63 Start: 40938, Stop: 41438, Start Num: 101
Candidate Starts for Cressida_63:
(Start: 101 @40938 has 411 MA's), (133, 41112), (143, 41160), (145, 41166), (163, 41244),

Gene: Crisis_65 Start: 40574, Stop: 41080, Start Num: 101
Candidate Starts for Crisis_65:
(Start: 101 @40574 has 411 MA's), (108, 40589), (143, 40796), (163, 40880), (179, 40922),

Gene: Crossroads_85 Start: 55546, Stop: 55932, Start Num: 103
Candidate Starts for Crossroads_85:
(Start: 103 @55546 has 76 MA's), (117, 55597), (119, 55618), (123, 55639), (129, 55678), (130, 55693), (133, 55711), (146, 55768), (148, 55771), (158, 55828),

Gene: CrystalP_99 Start: 60193, Stop: 60633, Start Num: 101
Candidate Starts for CrystalP_99:
(Start: 101 @60193 has 411 MA's), (124, 60292), (137, 60388), (148, 60424), (160, 60490), (179, 60538),

Gene: Cucurbita_127 Start: 72611, Stop: 73120, Start Num: 101
Candidate Starts for Cucurbita_127:
(Start: 101 @72611 has 411 MA's), (109, 72626), (112, 72635), (143, 72833), (179, 72959), (186, 73010), (194, 73070),

Gene: Culver_126 Start: 70629, Stop: 71138, Start Num: 101
Candidate Starts for Culver_126:
(Start: 101 @70629 has 411 MA's), (109, 70644), (112, 70653), (143, 70851), (179, 70977), (186, 71028), (194, 71088),

Gene: Cumberbatch_46 Start: 30696, Stop: 31175, Start Num: 101
Candidate Starts for Cumberbatch_46:
(Start: 101 @30696 has 411 MA's), (158, 30987),

Gene: Cygnet_54 Start: 33984, Stop: 34493, Start Num: 101
Candidate Starts for Cygnet_54:
(62, 33879), (Start: 101 @33984 has 411 MA's), (123, 34080), (127, 34098), (138, 34185), (148, 34218), (175, 34320),

Gene: Czyszczon1_101 Start: 59453, Stop: 59893, Start Num: 101
Candidate Starts for Czyszczon1_101:
(35, 59252), (36, 59255), (Start: 41 @59282 has 1 MA's), (42, 59285), (51, 59327), (71, 59381), (Start: 101 @59453 has 411 MA's), (124, 59552), (137, 59648), (148, 59684), (160, 59750), (179, 59798),

Gene: DHan_89 Start: 55771, Stop: 56169, Start Num: 103
Candidate Starts for DHan_89:
(Start: 103 @55771 has 76 MA's), (117, 55822), (119, 55843), (123, 55864), (129, 55903), (130, 55918), (133, 55936), (146, 55993), (148, 55996), (158, 56053), (170, 56089),

Gene: DaRealMyers_44 Start: 31983, Stop: 32510, Start Num: 101
Candidate Starts for DaRealMyers_44:
(23, 31692), (26, 31707), (38, 31800), (59, 31881), (63, 31890), (Start: 101 @31983 has 411 MA's), (132, 32151), (145, 32211), (149, 32220), (179, 32328), (199, 32490),

Gene: Daikon_100 Start: 59067, Stop: 59507, Start Num: 101
Candidate Starts for Daikon_100:
(71, 58995), (Start: 101 @59067 has 411 MA's), (124, 59166), (137, 59262), (148, 59298), (160, 59364), (179, 59412),

Gene: DanBing_85 Start: 55276, Stop: 55665, Start Num: 103
Candidate Starts for DanBing_85:
(Start: 103 @55276 has 76 MA's), (117, 55327), (119, 55348), (123, 55369), (133, 55447), (146, 55504), (148, 55507), (170, 55597),

Gene: DanHam62_55 Start: 33505, Stop: 34014, Start Num: 101
Candidate Starts for DanHam62_55:
(Start: 101 @33505 has 411 MA's), (116, 33544), (120, 33586), (127, 33619), (133, 33679), (143, 33727), (148, 33739), (158, 33796), (163, 33811), (170, 33832), (179, 33853),

Gene: Dardanus_49 Start: 33729, Stop: 34202, Start Num: 101
Candidate Starts for Dardanus_49:
(43, 33552), (Start: 101 @33729 has 411 MA's), (117, 33783), (127, 33843), (131, 33891), (132, 33897), (146, 33960), (158, 34020), (160, 34029),

Gene: Daredevil_74 Start: 52691, Stop: 52191, Start Num: 101
Candidate Starts for Daredevil_74:
(Start: 101 @52691 has 411 MA's), (120, 52613),

Gene: Darolandstone_44 Start: 33598, Stop: 34095, Start Num: 101
Candidate Starts for Darolandstone_44:
(54, 33475), (57, 33484), (Start: 101 @33598 has 411 MA's), (123, 33694), (133, 33772), (145, 33826),

Gene: DarwinJr_76 Start: 40077, Stop: 40586, Start Num: 101
Candidate Starts for DarwinJr_76:
(Start: 101 @40077 has 411 MA's), (120, 40158), (139, 40296), (150, 40332), (170, 40416),

Gene: DatBoi_81 Start: 56811, Stop: 56245, Start Num: 101
Candidate Starts for DatBoi_81:
(Start: 101 @56811 has 411 MA's), (134, 56628), (183, 56424),

Gene: DelaGarza_43 Start: 26483, Stop: 25980, Start Num: 101
Candidate Starts for DelaGarza_43:

(Start: 101 @26483 has 411 MA's), (143, 26261), (179, 26135),

Gene: Diminimus_68 Start: 43862, Stop: 44308, Start Num: 97
Candidate Starts for Diminimus_68:
(84, 43826), (Start: 97 @43862 has 26 MA's), (120, 43946), (131, 44027), (136, 44051), (179, 44210),

Gene: Ding_69 Start: 37319, Stop: 37894, Start Num: 101
Candidate Starts for Ding_69:
(Start: 101 @37319 has 411 MA's), (137, 37517), (145, 37547),

Gene: DinoDaryn_55 Start: 35610, Stop: 36101, Start Num: 101
Candidate Starts for DinoDaryn_55:
(Start: 101 @35610 has 411 MA's), (117, 35664), (131, 35772), (148, 35844), (163, 35916),

Gene: DirkDirk_79 Start: 52716, Stop: 53099, Start Num: 103
Candidate Starts for DirkDirk_79:
(Start: 103 @52716 has 76 MA's), (123, 52809), (130, 52863), (133, 52881), (148, 52941), (158, 52998),

Gene: Divya_48 Start: 33463, Stop: 33903, Start Num: 106
Candidate Starts for Divya_48:
(Start: 106 @33463 has 8 MA's), (121, 33538), (136, 33637), (145, 33679), (148, 33685), (159, 33751), (160, 33757),

Gene: DoctorDiddles_99 Start: 58916, Stop: 59356, Start Num: 101
Candidate Starts for DoctorDiddles_99:
(35, 58715), (36, 58718), (Start: 41 @58745 has 1 MA's), (42, 58748), (51, 58790), (71, 58844), (Start: 101 @58916 has 411 MA's), (120, 58997), (124, 59015), (148, 59147), (160, 59213), (179, 59261),

Gene: DogYard_96 Start: 57427, Stop: 56822, Start Num: 101
Candidate Starts for DogYard_96:
(Start: 101 @57427 has 411 MA's), (117, 57373), (131, 57265), (159, 57133), (160, 57127), (163, 57121),

Gene: DonTron_86 Start: 55828, Stop: 56250, Start Num: 101
Candidate Starts for DonTron_86:
(34, 55603), (40, 55642), (60, 55723), (95, 55825), (Start: 101 @55828 has 411 MA's), (121, 55912), (125, 55930), (159, 56122), (160, 56128),

Gene: Doucette_53 Start: 34241, Stop: 34705, Start Num: 104
Candidate Starts for Doucette_53:
(Start: 104 @34241 has 6 MA's), (123, 34331), (132, 34400), (148, 34466),

Gene: Douge_84 Start: 54186, Stop: 54593, Start Num: 103
Candidate Starts for Douge_84:
(Start: 103 @54186 has 76 MA's), (119, 54258), (123, 54279), (129, 54318), (130, 54333), (136, 54363), (146, 54408), (148, 54411), (184, 54552),

Gene: Douzhi_83 Start: 54057, Stop: 54464, Start Num: 103
Candidate Starts for Douzhi_83:
(Start: 103 @54057 has 76 MA's), (119, 54129), (123, 54150), (129, 54189), (130, 54204), (146, 54279), (148, 54282), (184, 54423),

Gene: DrDrey_100 Start: 60931, Stop: 61371, Start Num: 101
Candidate Starts for DrDrey_100:
(Start: 101 @60931 has 411 MA's), (124, 61030), (148, 61162), (160, 61228), (179, 61276),

Gene: DrSeegs_85 Start: 55471, Stop: 55857, Start Num: 103
Candidate Starts for DrSeegs_85:
(Start: 103 @55471 has 76 MA's), (117, 55522), (119, 55543), (123, 55564), (129, 55603), (130, 55618), (133, 55636), (146, 55693), (148, 55696), (158, 55753),

Gene: DrYang_97 Start: 63553, Stop: 64098, Start Num: 101
Candidate Starts for DrYang_97:
(52, 63412), (91, 63526), (Start: 101 @63553 has 411 MA's), (129, 63694), (131, 63715), (132, 63721), (137, 63751), (143, 63775), (149, 63790), (160, 63853),

Gene: DreamEater_54 Start: 35281, Stop: 35736, Start Num: 101
Candidate Starts for DreamEater_54:
(90, 35254), (Start: 101 @35281 has 411 MA's), (120, 35362), (130, 35437), (133, 35455), (136, 35467), (159, 35575), (170, 35608), (195, 35725),

Gene: Dropshot_45 Start: 28373, Stop: 28867, Start Num: 101
Candidate Starts for Dropshot_45:
(Start: 101 @28373 has 411 MA's), (143, 28595), (150, 28616), (179, 28721),

Gene: Dulcita_68 Start: 43863, Stop: 44309, Start Num: 97
Candidate Starts for Dulcita_68:
(84, 43827), (Start: 97 @43863 has 26 MA's), (120, 43947), (131, 44028), (136, 44052), (179, 44211),

Gene: Dumbo_100 Start: 59489, Stop: 59929, Start Num: 101
Candidate Starts for Dumbo_100:
(Start: 101 @59489 has 411 MA's), (124, 59588), (148, 59720), (160, 59786), (179, 59834),

Gene: DuncansLeg_84 Start: 55425, Stop: 55808, Start Num: 103
Candidate Starts for DuncansLeg_84:
(Start: 103 @55425 has 76 MA's), (118, 55485), (119, 55497), (123, 55518), (130, 55578), (148, 55656), (170, 55746),

Gene: Dusk_97 Start: 59453, Stop: 59893, Start Num: 101
Candidate Starts for Dusk_97:
(Start: 101 @59453 has 411 MA's), (124, 59552), (148, 59684), (160, 59750), (179, 59798),

Gene: Dusty_123 Start: 70841, Stop: 71350, Start Num: 101
Candidate Starts for Dusty_123:
(Start: 101 @70841 has 411 MA's), (109, 70856), (112, 70865), (143, 71063), (179, 71189), (186, 71240), (194, 71300),

Gene: DyoEdafos_87 Start: 54732, Stop: 55139, Start Num: 103
Candidate Starts for DyoEdafos_87:
(Start: 103 @54732 has 76 MA's), (119, 54804), (123, 54825), (130, 54879), (146, 54954), (148, 54957),

Gene: E1_47 Start: 31132, Stop: 31596, Start Num: 104
Candidate Starts for E1_47:
(Start: 104 @31132 has 6 MA's), (123, 31222), (125, 31228), (132, 31291), (145, 31351),

Gene: E6_53 Start: 34060, Stop: 34527, Start Num: 104
Candidate Starts for E6_53:
(37, 33853), (39, 33862), (50, 33910), (53, 33913), (Start: 104 @34060 has 6 MA's), (123, 34150), (132, 34219), (145, 34279), (168, 34372),

Gene: EarickHC_65 Start: 40496, Stop: 41002, Start Num: 101
Candidate Starts for EarickHC_65:
(Start: 101 @40496 has 411 MA's), (108, 40511), (143, 40718), (163, 40802), (179, 40844),

Gene: EastWest_38 Start: 30167, Stop: 30706, Start Num: 103
Candidate Starts for EastWest_38:
(98, 30161), (Start: 103 @30167 has 76 MA's), (179, 30512),

Gene: Eastland_45 Start: 30656, Stop: 31135, Start Num: 101
Candidate Starts for Eastland_45:
(Start: 101 @30656 has 411 MA's), (158, 30947),

Gene: Easy2Say_100 Start: 59925, Stop: 60365, Start Num: 101
Candidate Starts for Easy2Say_100:
(35, 59724), (36, 59727), (Start: 41 @59754 has 1 MA's), (42, 59757), (51, 59799), (71, 59853), (Start: 101 @59925 has 411 MA's), (124, 60024), (148, 60156), (160, 60222), (179, 60270),

Gene: EdgarPoe_101 Start: 64215, Stop: 64784, Start Num: 101
Candidate Starts for EdgarPoe_101:
(Start: 101 @64215 has 411 MA's), (120, 64296), (130, 64371), (137, 64413), (140, 64425), (143, 64437), (145, 64443), (148, 64449), (163, 64521), (179, 64563),

Gene: Edmundo_14 Start: 9885, Stop: 10643, Start Num: 101
Candidate Starts for Edmundo_14:
(Start: 101 @9885 has 411 MA's), (141, 10098), (143, 10107), (179, 10233), (205, 10446),

Gene: Eesa_52 Start: 34727, Stop: 35206, Start Num: 101
Candidate Starts for Eesa_52:
(Start: 101 @34727 has 411 MA's), (120, 34808), (133, 34901), (143, 34949), (145, 34955), (163, 35033), (181, 35084),

Gene: Eklok_45 Start: 30455, Stop: 30934, Start Num: 101
Candidate Starts for Eklok_45:
(Start: 101 @30455 has 411 MA's), (158, 30746),

Gene: Elite2014_99 Start: 59100, Stop: 59540, Start Num: 101
Candidate Starts for Elite2014_99:
(Start: 101 @59100 has 411 MA's), (124, 59199), (148, 59331), (160, 59397), (179, 59445),

Gene: Ellson_83 Start: 55740, Stop: 56123, Start Num: 103
Candidate Starts for Ellson_83:
(Start: 103 @55740 has 76 MA's), (118, 55800), (119, 55812), (123, 55833), (130, 55893), (148, 55971), (170, 56061),

Gene: Elph10_100 Start: 59135, Stop: 59575, Start Num: 101
Candidate Starts for Elph10_100:

(Start: 101 @59135 has 411 MA's), (124, 59234), (137, 59330), (148, 59366), (160, 59432), (179, 59480),

Gene: Emmina_100 Start: 58876, Stop: 59316, Start Num: 101
Candidate Starts for Emmina_100:
(Start: 101 @58876 has 411 MA's), (124, 58975), (137, 59071), (148, 59107), (160, 59173), (179, 59221),

Gene: Enceladus_79 Start: 53493, Stop: 53876, Start Num: 103
Candidate Starts for Enceladus_79:
(Start: 103 @53493 has 76 MA's), (123, 53586), (130, 53640), (133, 53658), (148, 53718), (158, 53775),

Gene: Engineer_128 Start: 72271, Stop: 72780, Start Num: 101
Candidate Starts for Engineer_128:
(Start: 101 @72271 has 411 MA's), (109, 72286), (112, 72295), (143, 72493), (179, 72619), (186, 72670), (194, 72730),

Gene: EniyanLRS_74 Start: 48895, Stop: 49284, Start Num: 100
Candidate Starts for EniyanLRS_74:
(Start: 100 @48895 has 8 MA's), (123, 48988), (124, 48991), (130, 49042), (133, 49060), (145, 49114), (159, 49180), (179, 49234),

Gene: Estes_75 Start: 46028, Stop: 46465, Start Num: 97
Candidate Starts for Estes_75:
(Start: 97 @46028 has 26 MA's), (120, 46112), (131, 46193),

Gene: Eureka_99 Start: 60064, Stop: 60504, Start Num: 101
Candidate Starts for Eureka_99:
(Start: 101 @60064 has 411 MA's), (124, 60163), (137, 60259), (148, 60295), (160, 60361), (179, 60409),

Gene: EvePickles_69 Start: 38354, Stop: 38866, Start Num: 101
Candidate Starts for EvePickles_69:
(Start: 101 @38354 has 411 MA's), (120, 38435), (139, 38573),

Gene: FairyPath_100 Start: 60369, Stop: 60809, Start Num: 101
Candidate Starts for FairyPath_100:
(Start: 101 @60369 has 411 MA's), (124, 60468), (148, 60600), (160, 60666), (179, 60714),

Gene: Faith1_85 Start: 55471, Stop: 55857, Start Num: 103
Candidate Starts for Faith1_85:
(Start: 103 @55471 has 76 MA's), (117, 55522), (119, 55543), (123, 55564), (129, 55603), (130, 55618), (133, 55636), (146, 55693), (148, 55696), (158, 55753),

Gene: Faja_73 Start: 39133, Stop: 39654, Start Num: 101
Candidate Starts for Faja_73:
(Start: 101 @39133 has 411 MA's), (120, 39214), (139, 39352),

Gene: FarmResident_84 Start: 53796, Stop: 54203, Start Num: 103
Candidate Starts for FarmResident_84:
(Start: 103 @53796 has 76 MA's), (119, 53868), (123, 53889), (129, 53928), (130, 53943), (136, 53973), (146, 54018), (148, 54021), (184, 54162),

Gene: Filch_102 Start: 59448, Stop: 59888, Start Num: 101
Candidate Starts for Filch_102:
(Start: 101 @59448 has 411 MA's), (124, 59547), (137, 59643), (148, 59679), (160, 59745), (179, 59793),

Gene: Finemlucis_85 Start: 56160, Stop: 56546, Start Num: 103
Candidate Starts for Finemlucis_85:
(91, 56142), (Start: 103 @56160 has 76 MA's), (117, 56211), (119, 56232), (123, 56253), (129, 56292), (130, 56307), (133, 56325), (146, 56382), (148, 56385), (158, 56442),

Gene: Fingolfin_55 Start: 33508, Stop: 34017, Start Num: 101
Candidate Starts for Fingolfin_55:
(Start: 101 @33508 has 411 MA's), (116, 33547), (120, 33589), (127, 33622), (133, 33682), (143, 33730), (148, 33742), (158, 33799), (163, 33814), (170, 33835), (179, 33856),

Gene: Finkle_70 Start: 43173, Stop: 43691, Start Num: 103
Candidate Starts for Finkle_70:
(80, 43113), (Start: 103 @43173 has 76 MA's), (115, 43206),

Gene: Finnry_83 Start: 55427, Stop: 55810, Start Num: 103
Candidate Starts for Finnry_83:
(Start: 103 @55427 has 76 MA's), (118, 55487), (119, 55499), (123, 55520), (130, 55580), (133, 55598), (148, 55658), (170, 55748),

Gene: FireRed_103 Start: 60340, Stop: 60780, Start Num: 101
Candidate Starts for FireRed_103:
(Start: 101 @60340 has 411 MA's), (124, 60439), (137, 60535), (148, 60571), (160, 60637), (179, 60685),

Gene: Fireman_67 Start: 42549, Stop: 43052, Start Num: 96
Candidate Starts for Fireman_67:
(Start: 96 @42549 has 11 MA's), (133, 42723), (143, 42771), (179, 42897),

Gene: Flypotenuse_96 Start: 58525, Stop: 58965, Start Num: 101
Candidate Starts for Flypotenuse_96:
(35, 58324), (36, 58327), (Start: 41 @58354 has 1 MA's), (42, 58357), (51, 58399), (71, 58453), (Start: 101 @58525 has 411 MA's), (120, 58606), (124, 58624), (148, 58756), (160, 58822), (179, 58870),

Gene: FoghornLeghorn_93 Start: 57230, Stop: 57670, Start Num: 101
Candidate Starts for FoghornLeghorn_93:
(35, 57029), (36, 57032), (Start: 41 @57059 has 1 MA's), (42, 57062), (51, 57104), (71, 57158), (Start: 101 @57230 has 411 MA's), (120, 57311), (124, 57329), (148, 57461), (160, 57527), (179, 57575),

Gene: Forrestell_95 Start: 56132, Stop: 55527, Start Num: 101
Candidate Starts for Forrestell_95:
(Start: 101 @56132 has 411 MA's), (131, 55970), (159, 55838), (160, 55832), (163, 55826), (170, 55805),

Gene: Forthebois_13 Start: 6604, Stop: 6182, Start Num: 97
Candidate Starts for Forthebois_13:
(Start: 97 @6604 has 26 MA's), (113, 6571), (129, 6457), (137, 6400), (158, 6307), (172, 6268),

Gene: Franzy_35 Start: 30564, Stop: 31142, Start Num: 101
Candidate Starts for Franzy_35:
(70, 30480), (Start: 101 @30564 has 411 MA's), (112, 30588), (115, 30600), (136, 30750), (143, 30786), (148, 30798), (179, 30912), (197, 31023),

Gene: FreakyGoo_68 Start: 43863, Stop: 44309, Start Num: 97
Candidate Starts for FreakyGoo_68:
(84, 43827), (Start: 97 @43863 has 26 MA's), (120, 43947), (131, 44028), (136, 44052), (179, 44211),

Gene: FrumpyGal_46 Start: 30656, Stop: 31135, Start Num: 101
Candidate Starts for FrumpyGal_46:
(Start: 101 @30656 has 411 MA's), (158, 30947),

Gene: G4_64 Start: 35908, Stop: 36363, Start Num: 104
Candidate Starts for G4_64:
(39, 35710), (50, 35758), (53, 35761), (Start: 104 @35908 has 6 MA's), (123, 35998), (132, 36067), (145, 36127),

Gene: GUPitcher_53 Start: 35415, Stop: 35852, Start Num: 101
Candidate Starts for GUPitcher_53:
(Start: 101 @35415 has 411 MA's), (120, 35496), (136, 35601), (145, 35643), (158, 35706), (170, 35742),

Gene: Gabriela_85 Start: 54817, Stop: 55203, Start Num: 103
Candidate Starts for Gabriela_85:
(Start: 103 @54817 has 76 MA's), (117, 54868), (119, 54889), (123, 54910), (129, 54949), (130, 54964), (133, 54982), (146, 55039), (148, 55042), (158, 55099),

Gene: Gage_102 Start: 59596, Stop: 60036, Start Num: 101
Candidate Starts for Gage_102:
(35, 59395), (36, 59398), (Start: 41 @59425 has 1 MA's), (42, 59428), (51, 59470), (71, 59524), (Start: 101 @59596 has 411 MA's), (124, 59695), (148, 59827), (160, 59893), (179, 59941),

Gene: Galaxy_52 Start: 33030, Stop: 33548, Start Num: 101
Candidate Starts for Galaxy_52:
(Start: 101 @33030 has 411 MA's), (120, 33111), (123, 33126), (143, 33252), (145, 33258), (148, 33264), (163, 33336), (204, 33495),

Gene: Gallop_58 Start: 40358, Stop: 40924, Start Num: 101
Candidate Starts for Gallop_58:
(Start: 101 @40358 has 411 MA's), (120, 40439), (140, 40568), (143, 40580), (148, 40592), (179, 40706),

Gene: Ganandorf_63 Start: 40592, Stop: 41098, Start Num: 101
Candidate Starts for Ganandorf_63:
(Start: 101 @40592 has 411 MA's), (108, 40607), (143, 40814), (163, 40898), (179, 40940),

Gene: Gardann_85 Start: 55306, Stop: 55692, Start Num: 103
Candidate Starts for Gardann_85:
(Start: 103 @55306 has 76 MA's), (117, 55357), (119, 55378), (123, 55399), (129, 55438), (130, 55453), (133, 55471), (146, 55528), (148, 55531), (158, 55588),

Gene: GardenSalsa_76 Start: 46450, Stop: 46887, Start Num: 97

Candidate Starts for GardenSalsa_76:
(Start: 97 @46450 has 26 MA's), (120, 46534), (131, 46615),

Gene: Gator_98 Start: 59381, Stop: 59821, Start Num: 101
Candidate Starts for Gator_98:
(35, 59180), (36, 59183), (Start: 41 @59210 has 1 MA's), (42, 59213), (51, 59255), (71, 59309), (Start: 101 @59381 has 411 MA's), (120, 59462), (124, 59480), (148, 59612), (160, 59678), (179, 59726),

Gene: Geeche_124 Start: 71064, Stop: 71573, Start Num: 101
Candidate Starts for Geeche_124:
(Start: 101 @71064 has 411 MA's), (109, 71079), (112, 71088), (143, 71286), (179, 71412), (186, 71463), (194, 71523),

Gene: Gemini_105 Start: 59975, Stop: 60415, Start Num: 101
Candidate Starts for Gemini_105:
(35, 59774), (36, 59777), (Start: 41 @59804 has 1 MA's), (42, 59807), (51, 59849), (71, 59903), (Start: 101 @59975 has 411 MA's), (124, 60074), (148, 60206), (160, 60272), (179, 60320),

Gene: GenevaB15_75 Start: 45899, Stop: 46336, Start Num: 97
Candidate Starts for GenevaB15_75:
(Start: 97 @45899 has 26 MA's), (120, 45983), (131, 46064),

Gene: Gibbzilla_62 Start: 32565, Stop: 33086, Start Num: 101
Candidate Starts for Gibbzilla_62:
(20, 32253), (30, 32310), (Start: 101 @32565 has 411 MA's), (121, 32649), (123, 32661), (139, 32784),

Gene: Gilgamesh_89 Start: 83492, Stop: 83953, Start Num: 97
Candidate Starts for Gilgamesh_89:
(Start: 97 @83492 has 26 MA's), (133, 83666), (143, 83714), (148, 83726),

Gene: Gina_68 Start: 40668, Stop: 41171, Start Num: 96
Candidate Starts for Gina_68:
(Start: 96 @40668 has 11 MA's), (143, 40890), (163, 40974),

Gene: Gingerbug_42 Start: 27000, Stop: 26503, Start Num: 101
Candidate Starts for Gingerbug_42:
(9, 27522), (21, 27312), (25, 27285), (28, 27270), (Start: 101 @27000 has 411 MA's), (120, 26919), (131, 26838), (179, 26652),

Gene: Glaske16_68 Start: 43862, Stop: 44308, Start Num: 97
Candidate Starts for Glaske16_68:
(84, 43826), (Start: 97 @43862 has 26 MA's), (120, 43946), (131, 44027), (136, 44051), (179, 44210),

Gene: Glexan_99 Start: 59655, Stop: 60095, Start Num: 101
Candidate Starts for Glexan_99:
(35, 59454), (36, 59457), (Start: 41 @59484 has 1 MA's), (42, 59487), (51, 59529), (71, 59583), (Start: 101 @59655 has 411 MA's), (120, 59736), (124, 59754), (148, 59886), (160, 59952), (179, 60000),

Gene: Globfish_72 Start: 37764, Stop: 38243, Start Num: 106
Candidate Starts for Globfish_72:
(Start: 106 @37764 has 8 MA's), (152, 38007), (155, 38022), (159, 38058), (161, 38064),

Gene: Glorp_65 Start: 40559, Stop: 41062, Start Num: 101

Candidate Starts for Glorp_65:
(Start: 101 @40559 has 411 MA's), (108, 40574), (143, 40781), (163, 40865), (179, 40907),

Gene: Glotell_56 Start: 33552, Stop: 34061, Start Num: 101
Candidate Starts for Glotell_56:
(Start: 101 @33552 has 411 MA's), (116, 33591), (120, 33633), (127, 33666), (133, 33726), (143, 33774), (148, 33786), (158, 33843), (163, 33858), (170, 33879), (179, 33900),

Gene: Goib_55 Start: 36148, Stop: 36654, Start Num: 101
Candidate Starts for Goib_55:
(Start: 101 @36148 has 411 MA's), (131, 36310), (148, 36382), (163, 36454), (179, 36496),

Gene: Goku_99 Start: 59793, Stop: 60233, Start Num: 101
Candidate Starts for Goku_99:
(Start: 101 @59793 has 411 MA's), (124, 59892), (137, 59988), (148, 60024), (160, 60090), (179, 60138),

Gene: GoldDust_38 Start: 32737, Stop: 33288, Start Num: 101
Candidate Starts for GoldDust_38:
(Start: 101 @32737 has 411 MA's), (112, 32761), (143, 32959), (148, 32971),

Gene: GoldenSpark_104 Start: 59458, Stop: 59898, Start Num: 101
Candidate Starts for GoldenSpark_104:
(35, 59257), (36, 59260), (Start: 41 @59287 has 1 MA's), (42, 59290), (51, 59332), (71, 59386), (Start: 101 @59458 has 411 MA's), (124, 59557), (148, 59689), (160, 59755), (179, 59803),

Gene: Goldilocks_103 Start: 59375, Stop: 59815, Start Num: 101
Candidate Starts for Goldilocks_103:
(Start: 101 @59375 has 411 MA's), (124, 59474), (148, 59606), (160, 59672), (179, 59720),

Gene: GooberAzure_103 Start: 59458, Stop: 59898, Start Num: 101
Candidate Starts for GooberAzure_103:
(35, 59257), (36, 59260), (Start: 41 @59287 has 1 MA's), (42, 59290), (51, 59332), (71, 59386), (Start: 101 @59458 has 411 MA's), (124, 59557), (148, 59689), (160, 59755), (179, 59803),

Gene: Gooberta_38 Start: 32736, Stop: 33287, Start Num: 101
Candidate Starts for Gooberta_38:
(Start: 101 @32736 has 411 MA's), (112, 32760), (143, 32958), (148, 32970),

Gene: Gorpy_70 Start: 38991, Stop: 39509, Start Num: 101
Candidate Starts for Gorpy_70:
(Start: 101 @38991 has 411 MA's), (125, 39093), (139, 39210),

Gene: Gravel_64 Start: 35301, Stop: 35780, Start Num: 101
Candidate Starts for Gravel_64:
(Start: 101 @35301 has 411 MA's), (120, 35382), (133, 35475), (143, 35523), (145, 35529), (163, 35607), (181, 35658),

Gene: GravityBall_37 Start: 30898, Stop: 31446, Start Num: 101
Candidate Starts for GravityBall_37:
(Start: 101 @30898 has 411 MA's), (112, 30922), (143, 31120), (175, 31234), (179, 31246), (197, 31324),

Gene: Greep_104 Start: 61030, Stop: 61470, Start Num: 101
Candidate Starts for Greep_104:
(Start: 101 @61030 has 411 MA's), (124, 61129), (137, 61225), (148, 61261), (160, 61327), (179, 61375),

Gene: Grekaycon_37 Start: 30822, Stop: 31370, Start Num: 101
Candidate Starts for Grekaycon_37:
(68, 30735), (Start: 101 @30822 has 411 MA's), (112, 30846), (136, 31008), (143, 31044), (170, 31149), (179, 31170), (197, 31254),

Gene: Grumio_87 Start: 55428, Stop: 55850, Start Num: 101
Candidate Starts for Grumio_87:
(34, 55203), (40, 55242), (60, 55323), (Start: 101 @55428 has 411 MA's), (121, 55512), (125, 55530), (159, 55722), (160, 55728),

Gene: Gsput1_47 Start: 34521, Stop: 34976, Start Num: 101
Candidate Starts for Gsput1_47:
(10, 34035), (18, 34152), (22, 34212), (43, 34338), (45, 34353), (49, 34377), (58, 34407), (Start: 101 @34521 has 411 MA's), (122, 34608), (128, 34632), (133, 34686), (153, 34764), (180, 34860),

Gene: GumGum_75 Start: 38218, Stop: 38685, Start Num: 106
Candidate Starts for GumGum_75:
(Start: 106 @38218 has 8 MA's), (117, 38263), (141, 38419),

Gene: GuuelaD_83 Start: 55445, Stop: 55831, Start Num: 103
Candidate Starts for GuuelaD_83:
(Start: 103 @55445 has 76 MA's), (117, 55496), (123, 55538), (129, 55577), (130, 55592), (133, 55610), (146, 55667), (148, 55670), (158, 55727), (170, 55763),

Gene: Guzman_45 Start: 28637, Stop: 29128, Start Num: 101
Candidate Starts for Guzman_45:
(Start: 101 @28637 has 411 MA's), (143, 28859), (150, 28880), (163, 28943),

Gene: HFrancette_46 Start: 31430, Stop: 31909, Start Num: 101
Candidate Starts for HFrancette_46:
(1, 30659), (11, 30968), (65, 31334), (72, 31352), (Start: 101 @31430 has 411 MA's), (143, 31652), (158, 31721),

Gene: Hafay_86 Start: 55401, Stop: 55784, Start Num: 103
Candidate Starts for Hafay_86:
(Start: 103 @55401 has 76 MA's), (117, 55452), (119, 55473), (123, 55494), (129, 55533), (130, 55548), (133, 55566), (146, 55623), (148, 55626), (158, 55683), (170, 55719),

Gene: Halena_80 Start: 52763, Stop: 53146, Start Num: 103
Candidate Starts for Halena_80:
(Start: 103 @52763 has 76 MA's), (123, 52856), (130, 52910), (133, 52928), (148, 52988), (158, 53045),

Gene: HamCheese_55 Start: 33492, Stop: 34001, Start Num: 101
Candidate Starts for HamCheese_55:
(Start: 101 @33492 has 411 MA's), (116, 33531), (120, 33573), (127, 33606), (133, 33666), (143, 33714), (148, 33726), (158, 33783), (163, 33798), (170, 33819), (179, 33840),

Gene: HanKaySha_101 Start: 59845, Stop: 60285, Start Num: 101
Candidate Starts for HanKaySha_101:
(Start: 101 @59845 has 411 MA's), (124, 59944), (137, 60040), (148, 60076), (160, 60142), (179, 60190),

Gene: Harella_100 Start: 60171, Stop: 60611, Start Num: 101
Candidate Starts for Harella_100:
(35, 59970), (36, 59973), (Start: 41 @60000 has 1 MA's), (42, 60003), (51, 60045), (71, 60099), (Start: 101 @60171 has 411 MA's), (120, 60252), (124, 60270), (148, 60402), (160, 60468), (179, 60516),

Gene: Henry_97 Start: 59498, Stop: 59938, Start Num: 101
Candidate Starts for Henry_97:
(Start: 101 @59498 has 411 MA's), (124, 59597), (137, 59693), (148, 59729), (160, 59795), (179, 59843),

Gene: Hermeonysus_64 Start: 40487, Stop: 40993, Start Num: 101
Candidate Starts for Hermeonysus_64:
(Start: 101 @40487 has 411 MA's), (108, 40502), (143, 40709), (163, 40793), (179, 40835),

Gene: Hestia_64 Start: 35356, Stop: 35877, Start Num: 101
Candidate Starts for Hestia_64:
(Start: 101 @35356 has 411 MA's), (120, 35437), (139, 35575),

Gene: Highbury_97 Start: 58002, Stop: 58442, Start Num: 101
Candidate Starts for Highbury_97:
(47, 57852), (56, 57882), (73, 57930), (80, 57945), (82, 57957), (Start: 101 @58002 has 411 MA's), (124, 58101), (137, 58197), (148, 58233), (160, 58299), (179, 58347),

Gene: Hillester_76 Start: 38827, Stop: 39300, Start Num: 106
Candidate Starts for Hillester_76:
(Start: 106 @38827 has 8 MA's), (117, 38872), (141, 39028),

Gene: Hirko_37 Start: 32245, Stop: 32802, Start Num: 101
Candidate Starts for Hirko_37:
(Start: 101 @32245 has 411 MA's), (131, 32407), (143, 32467), (158, 32536),

Gene: Hive_93 Start: 57411, Stop: 56806, Start Num: 101
Candidate Starts for Hive_93:
(Start: 101 @57411 has 411 MA's), (117, 57357), (131, 57249), (159, 57117), (160, 57111), (163, 57105), (180, 57060),

Gene: Holt_105 Start: 59872, Stop: 60312, Start Num: 101
Candidate Starts for Holt_105:
(35, 59671), (36, 59674), (Start: 41 @59701 has 1 MA's), (42, 59704), (51, 59746), (71, 59800), (Start: 101 @59872 has 411 MA's), (124, 59971), (148, 60103), (160, 60169), (179, 60217),

Gene: Honeyfin_65 Start: 40747, Stop: 41253, Start Num: 101
Candidate Starts for Honeyfin_65:
(Start: 101 @40747 has 411 MA's), (108, 40762), (143, 40969), (163, 41053), (179, 41095),

Gene: Hoonter_103 Start: 59949, Stop: 60389, Start Num: 101
Candidate Starts for Hoonter_103:

(Start: 101 @59949 has 411 MA's), (124, 60048), (137, 60144), (148, 60180), (160, 60246), (179, 60294),

Gene: Hopey_101 Start: 60455, Stop: 60895, Start Num: 101
Candidate Starts for Hopey_101:
(Start: 101 @60455 has 411 MA's), (124, 60554), (137, 60650), (148, 60686), (160, 60752), (179, 60800),

Gene: HufflyPuff_102 Start: 60566, Stop: 61006, Start Num: 101
Candidate Starts for HufflyPuff_102:
(78, 60509), (Start: 101 @60566 has 411 MA's), (124, 60665), (148, 60797), (160, 60863), (179, 60911),

Gene: Huffy_55 Start: 35610, Stop: 36101, Start Num: 101
Candidate Starts for Huffy_55:
(Start: 101 @35610 has 411 MA's), (117, 35664), (131, 35772), (148, 35844), (163, 35916),

Gene: Hum25_61 Start: 35235, Stop: 35735, Start Num: 100
Candidate Starts for Hum25_61:
(Start: 100 @35235 has 8 MA's), (112, 35259), (120, 35316), (133, 35409), (143, 35457), (170, 35562), (179, 35583),

Gene: HumptyDumpty_101 Start: 64018, Stop: 64587, Start Num: 101
Candidate Starts for HumptyDumpty_101:
(Start: 101 @64018 has 411 MA's), (120, 64099), (130, 64174), (137, 64216), (143, 64240), (145, 64246), (148, 64252), (163, 64324), (170, 64345), (179, 64366),

Gene: IHOP_98 Start: 59174, Stop: 59614, Start Num: 101
Candidate Starts for IHOP_98:
(35, 58973), (36, 58976), (Start: 41 @59003 has 1 MA's), (42, 59006), (51, 59048), (66, 59090), (71, 59102), (Start: 101 @59174 has 411 MA's), (120, 59255), (124, 59273), (148, 59405), (160, 59471), (179, 59519),

Gene: IPhane7_67 Start: 43867, Stop: 44313, Start Num: 97
Candidate Starts for IPhane7_67:
(84, 43831), (Start: 97 @43867 has 26 MA's), (120, 43951), (131, 44032), (136, 44056), (179, 44215),

Gene: Icee_101 Start: 58982, Stop: 59422, Start Num: 101
Candidate Starts for Icee_101:
(35, 58781), (36, 58784), (Start: 41 @58811 has 1 MA's), (42, 58814), (51, 58856), (71, 58910), (Start: 101 @58982 has 411 MA's), (120, 59063), (124, 59081), (148, 59213), (160, 59279), (179, 59327),

Gene: Ididsumtinwong_47 Start: 30484, Stop: 30948, Start Num: 101
Candidate Starts for Ididsumtinwong_47:
(Start: 101 @30484 has 411 MA's), (131, 30646), (132, 30652),

Gene: Ignacio_45 Start: 31333, Stop: 31812, Start Num: 101
Candidate Starts for Ignacio_45:
(1, 30562), (11, 30871), (65, 31237), (72, 31255), (Start: 101 @31333 has 411 MA's), (143, 31555), (158, 31624),

Gene: Inca_97 Start: 57663, Stop: 58103, Start Num: 101
Candidate Starts for Inca_97:

(35, 57462), (36, 57465), (Start: 41 @57492 has 1 MA's), (42, 57495), (51, 57537), (71, 57591), (Start: 101 @57663 has 411 MA's), (120, 57744), (124, 57762), (148, 57894), (160, 57960), (179, 58008),

Gene: Isolde_70 Start: 38113, Stop: 38619, Start Num: 101
Candidate Starts for Isolde_70:
(Start: 101 @38113 has 411 MA's), (139, 38332),

Gene: Itos_85 Start: 54377, Stop: 54763, Start Num: 103
Candidate Starts for Itos_85:
(Start: 103 @54377 has 76 MA's), (117, 54428), (119, 54449), (123, 54470), (129, 54509), (130, 54524), (133, 54542), (146, 54599), (148, 54602), (158, 54659),

Gene: Izel_68 Start: 43862, Stop: 44308, Start Num: 97
Candidate Starts for Izel_68:
(84, 43826), (Start: 97 @43862 has 26 MA's), (120, 43946), (131, 44027), (136, 44051), (179, 44210),

Gene: JKerns_37 Start: 30786, Stop: 31343, Start Num: 101
Candidate Starts for JKerns_37:
(68, 30699), (Start: 101 @30786 has 411 MA's), (112, 30810), (141, 30999), (143, 31008), (170, 31113), (175, 31122), (179, 31134), (197, 31227),

Gene: JaNo_100 Start: 63989, Stop: 64558, Start Num: 101
Candidate Starts for JaNo_100:
(Start: 101 @63989 has 411 MA's), (120, 64070), (130, 64145), (137, 64187), (143, 64211), (145, 64217), (148, 64223), (163, 64295), (170, 64316), (179, 64337),

Gene: Jace_65 Start: 39601, Stop: 40059, Start Num: 101
Candidate Starts for Jace_65:
(Start: 101 @39601 has 411 MA's), (110, 39613), (123, 39697), (140, 39811), (142, 39823), (144, 39829), (147, 39835),

Gene: Jakelyne_48 Start: 28747, Stop: 29238, Start Num: 101
Candidate Starts for Jakelyne_48:
(Start: 101 @28747 has 411 MA's), (143, 28969), (163, 29053), (179, 29095),

Gene: Jamun_52 Start: 34262, Stop: 34783, Start Num: 101
Candidate Starts for Jamun_52:
(Start: 101 @34262 has 411 MA's), (143, 34484), (145, 34490), (148, 34496), (158, 34553), (181, 34619), (204, 34730),

Gene: Jawnski_35 Start: 30570, Stop: 31145, Start Num: 101
Candidate Starts for Jawnski_35:
(Start: 101 @30570 has 411 MA's), (112, 30594), (143, 30792), (175, 30906), (197, 31050),

Gene: JayCookie_102 Start: 64608, Stop: 65165, Start Num: 101
Candidate Starts for JayCookie_102:
(Start: 101 @64608 has 411 MA's), (112, 64632), (120, 64689), (131, 64770), (137, 64806), (140, 64818), (143, 64830), (145, 64836), (148, 64842), (163, 64914), (179, 64956),

Gene: Jayden_65 Start: 41095, Stop: 41595, Start Num: 101
Candidate Starts for Jayden_65:
(55, 40975), (Start: 97 @41092 has 26 MA's), (Start: 101 @41095 has 411 MA's), (133, 41269), (143, 41317), (151, 41341), (163, 41401), (179, 41443),

Gene: JeTaime_99 Start: 59281, Stop: 59721, Start Num: 101
Candidate Starts for JeTaime_99:
(71, 59209), (Start: 101 @59281 has 411 MA's), (120, 59362), (124, 59380), (148, 59512), (160, 59578), (179, 59626),

Gene: JeanClaude_53 Start: 29745, Stop: 30239, Start Num: 101
Candidate Starts for JeanClaude_53:
(Start: 101 @29745 has 411 MA's), (139, 29964), (163, 30063),

Gene: Jefe_64 Start: 40545, Stop: 41048, Start Num: 101
Candidate Starts for Jefe_64:
(Start: 101 @40545 has 411 MA's), (108, 40560), (143, 40767), (163, 40851), (179, 40893),

Gene: JellyBread_68 Start: 37347, Stop: 37868, Start Num: 101
Candidate Starts for JellyBread_68:
(Start: 101 @37347 has 411 MA's), (125, 37449), (139, 37566),

Gene: Jinkies_44 Start: 33571, Stop: 34011, Start Num: 106
Candidate Starts for Jinkies_44:
(Start: 106 @33571 has 8 MA's), (121, 33646),

Gene: Jobypre_84 Start: 55406, Stop: 55789, Start Num: 103
Candidate Starts for Jobypre_84:
(Start: 103 @55406 has 76 MA's), (118, 55466), (119, 55478), (123, 55499), (130, 55559), (133, 55577), (148, 55637), (170, 55727),

Gene: JoeDirt_83 Start: 54091, Stop: 54474, Start Num: 103
Candidate Starts for JoeDirt_83:
(Start: 103 @54091 has 76 MA's), (123, 54184), (130, 54238), (133, 54256), (148, 54316), (158, 54373),

Gene: Jollipop_65 Start: 40927, Stop: 41430, Start Num: 101
Candidate Starts for Jollipop_65:
(Start: 101 @40927 has 411 MA's), (108, 40942), (143, 41149), (163, 41233), (179, 41275),

Gene: Jollymon_86 Start: 55950, Stop: 56372, Start Num: 101
Candidate Starts for Jollymon_86:
(34, 55725), (40, 55764), (60, 55845), (95, 55947), (Start: 101 @55950 has 411 MA's), (121, 56034), (125, 56052), (159, 56244), (160, 56250),

Gene: JonJames_135 Start: 77869, Stop: 78390, Start Num: 101
Candidate Starts for JonJames_135:
(Start: 101 @77869 has 411 MA's), (107, 77881), (112, 77893), (117, 77923), (123, 77965), (124, 77968), (145, 78097), (194, 78334),

Gene: Jordan_37 Start: 30836, Stop: 31393, Start Num: 101
Candidate Starts for Jordan_37:
(68, 30749), (Start: 101 @30836 has 411 MA's), (112, 30860), (141, 31049), (143, 31058), (170, 31163), (175, 31172), (179, 31184), (197, 31277),

Gene: JrWilcox_106 Start: 58456, Stop: 58953, Start Num: 99
Candidate Starts for JrWilcox_106:

(27, 58177), (77, 58393), (Start: 97 @58453 has 26 MA's), (99, 58456), (Start: 106 @58468 has 8 MA's), (112, 58480), (131, 58618), (133, 58630), (143, 58678),

Gene: Jubie_83 Start: 55541, Stop: 55924, Start Num: 103
Candidate Starts for Jubie_83:
(Start: 103 @55541 has 76 MA's), (118, 55601), (119, 55613), (123, 55634), (130, 55694), (133, 55712), (148, 55772), (170, 55862),

Gene: Juno112_54 Start: 33508, Stop: 34017, Start Num: 101
Candidate Starts for Juno112_54:
(Start: 101 @33508 has 411 MA's), (116, 33547), (120, 33589), (127, 33622), (133, 33682), (143, 33730), (148, 33742), (158, 33799), (163, 33814), (170, 33835), (179, 33856),

Gene: KBurrousTX_97 Start: 64742, Stop: 65284, Start Num: 101
Candidate Starts for KBurrousTX_97:
(82, 64694), (Start: 101 @64742 has 411 MA's), (117, 64796), (137, 64940), (143, 64964), (145, 64970), (148, 64976), (163, 65048), (179, 65090),

Gene: KHumphrey_55 Start: 33396, Stop: 33905, Start Num: 101
Candidate Starts for KHumphrey_55:
(Start: 101 @33396 has 411 MA's), (116, 33435), (120, 33477), (127, 33510), (133, 33570), (143, 33618), (148, 33630), (158, 33687), (163, 33702), (170, 33723), (179, 33744),

Gene: Kabloowy_71 Start: 38230, Stop: 38751, Start Num: 101
Candidate Starts for Kabloowy_71:
(Start: 101 @38230 has 411 MA's), (125, 38332), (139, 38449),

Gene: Kabreeze_101 Start: 64075, Stop: 64644, Start Num: 101
Candidate Starts for Kabreeze_101:
(Start: 101 @64075 has 411 MA's), (120, 64156), (130, 64231), (137, 64273), (143, 64297), (145, 64303), (148, 64309), (163, 64381), (170, 64402), (179, 64423),

Gene: Kahlid_85 Start: 55257, Stop: 55643, Start Num: 103
Candidate Starts for Kahlid_85:
(Start: 103 @55257 has 76 MA's), (117, 55308), (119, 55329), (123, 55350), (129, 55389), (130, 55404), (133, 55422), (146, 55479), (148, 55482), (158, 55539),

Gene: KaiHaiDragon_65 Start: 40496, Stop: 41002, Start Num: 101
Candidate Starts for KaiHaiDragon_65:
(Start: 101 @40496 has 411 MA's), (108, 40511), (143, 40718), (163, 40802), (179, 40844),

Gene: Kanye_97 Start: 59707, Stop: 60147, Start Num: 101
Candidate Starts for Kanye_97:
(Start: 101 @59707 has 411 MA's), (124, 59806), (137, 59902), (148, 59938), (160, 60004), (179, 60052),

Gene: KendraB23_63 Start: 34989, Stop: 35468, Start Num: 101
Candidate Starts for KendraB23_63:
(Start: 101 @34989 has 411 MA's), (120, 35070), (133, 35163), (143, 35211), (145, 35217), (163, 35295), (181, 35346),

Gene: Kharcho_81 Start: 48261, Stop: 48899, Start Num: 101
Candidate Starts for Kharcho_81:

(Start: 101 @48261 has 411 MA's), (120, 48342), (163, 48564),

Gene: Khuang_62 Start: 36400, Stop: 36924, Start Num: 101
Candidate Starts for Khuang_62:
(Start: 101 @36400 has 411 MA's), (137, 36598), (148, 36634), (170, 36727),

Gene: Kimchi_104 Start: 59599, Stop: 60039, Start Num: 101
Candidate Starts for Kimchi_104:
(35, 59398), (36, 59401), (Start: 41 @59428 has 1 MA's), (42, 59431), (51, 59473), (71, 59527), (Start: 101 @59599 has 411 MA's), (124, 59698), (148, 59830), (160, 59896), (179, 59944),

Gene: King2_35 Start: 30559, Stop: 31137, Start Num: 101
Candidate Starts for King2_35:
(Start: 101 @30559 has 411 MA's), (112, 30583), (115, 30595), (131, 30721), (133, 30733), (136, 30745), (143, 30781), (148, 30793), (179, 30907), (197, 31018),

Gene: Kingsolomon_81 Start: 55183, Stop: 55566, Start Num: 103
Candidate Starts for Kingsolomon_81:
(Start: 103 @55183 has 76 MA's), (118, 55243), (119, 55255), (123, 55276), (130, 55336), (133, 55354), (148, 55414), (170, 55504),

Gene: KingstonB_88 Start: 55361, Stop: 55783, Start Num: 101
Candidate Starts for KingstonB_88:
(34, 55136), (40, 55175), (60, 55256), (95, 55358), (Start: 101 @55361 has 411 MA's), (121, 55445), (125, 55463), (159, 55655), (160, 55661),

Gene: KirDoubleO7_82 Start: 55427, Stop: 55810, Start Num: 103
Candidate Starts for KirDoubleO7_82:
(Start: 103 @55427 has 76 MA's), (118, 55487), (119, 55499), (123, 55520), (130, 55580), (148, 55658), (170, 55748),

Gene: KleverKiS_66 Start: 43583, Stop: 44029, Start Num: 97
Candidate Starts for KleverKiS_66:
(84, 43547), (Start: 97 @43583 has 26 MA's), (120, 43667), (131, 43748), (136, 43772), (179, 43931),

Gene: Klevey_43 Start: 31378, Stop: 31935, Start Num: 101
Candidate Starts for Klevey_43:
(Start: 101 @31378 has 411 MA's), (143, 31600), (158, 31669),

Gene: Kostya_100 Start: 59276, Stop: 59716, Start Num: 101
Candidate Starts for Kostya_100:
(35, 59075), (36, 59078), (Start: 41 @59105 has 1 MA's), (42, 59108), (51, 59150), (71, 59204), (Start: 101 @59276 has 411 MA's), (124, 59375), (148, 59507), (160, 59573), (179, 59621),

Gene: Kovu_15 Start: 9876, Stop: 10469, Start Num: 101
Candidate Starts for Kovu_15:
(Start: 101 @9876 has 411 MA's), (120, 9957), (136, 10062), (137, 10074), (150, 10119), (179, 10224),

Gene: Kowalski_63 Start: 40561, Stop: 41067, Start Num: 101
Candidate Starts for Kowalski_63:
(Start: 101 @40561 has 411 MA's), (108, 40576), (143, 40783), (163, 40867), (179, 40909),

Gene: Kozie_60 Start: 40548, Stop: 41045, Start Num: 101

Candidate Starts for Kozie_60:
(Start: 101 @40548 has 411 MA's), (143, 40770), (163, 40854), (179, 40896),

Gene: Kropertea_79 Start: 54008, Stop: 54415, Start Num: 103
Candidate Starts for Kropertea_79:
(Start: 103 @54008 has 76 MA's), (119, 54080), (123, 54101), (129, 54140), (130, 54155), (146, 54230), (148, 54233),

Gene: Krypton555_84 Start: 55452, Stop: 55835, Start Num: 103
Candidate Starts for Krypton555_84:
(Start: 103 @55452 has 76 MA's), (118, 55512), (119, 55524), (123, 55545), (130, 55605), (133, 55623), (148, 55683), (170, 55773),

Gene: Kubulix_96 Start: 57094, Stop: 56489, Start Num: 101
Candidate Starts for Kubulix_96:
(Start: 101 @57094 has 411 MA's), (117, 57040), (131, 56932), (159, 56800), (160, 56794), (163, 56788),

Gene: Kukla_55 Start: 34866, Stop: 35303, Start Num: 101
Candidate Starts for Kukla_55:
(Start: 101 @34866 has 411 MA's), (120, 34947), (159, 35160), (170, 35193),

Gene: Kuleana_55 Start: 32730, Stop: 33242, Start Num: 101
Candidate Starts for Kuleana_55:
(Start: 101 @32730 has 411 MA's), (137, 32928), (143, 32952), (145, 32958),

Gene: Kumao_63 Start: 44478, Stop: 44960, Start Num: 101
Candidate Starts for Kumao_63:
(Start: 101 @44478 has 411 MA's), (111, 44496), (112, 44502), (120, 44559), (140, 44688), (150, 44721), (179, 44826),

Gene: Kumotta_55 Start: 31998, Stop: 32498, Start Num: 101
Candidate Starts for Kumotta_55:
(Start: 101 @31998 has 411 MA's), (120, 32079), (123, 32094), (136, 32184), (137, 32196), (143, 32220), (179, 32346),

Gene: Laphuphu24k_54 Start: 33492, Stop: 34001, Start Num: 101
Candidate Starts for Laphuphu24k_54:
(Start: 101 @33492 has 411 MA's), (116, 33531), (120, 33573), (127, 33606), (133, 33666), (143, 33714), (148, 33726), (158, 33783), (163, 33798), (170, 33819), (179, 33840),

Gene: Lasker_73 Start: 38725, Stop: 39246, Start Num: 101
Candidate Starts for Lasker_73:
(Start: 101 @38725 has 411 MA's), (120, 38806), (139, 38944), (159, 39031),

Gene: Lawnathon_73 Start: 37451, Stop: 37972, Start Num: 101
Candidate Starts for Lawnathon_73:
(Start: 101 @37451 has 411 MA's), (125, 37553), (139, 37670),

Gene: LeBron_81 Start: 52762, Stop: 53145, Start Num: 103
Candidate Starts for LeBron_81:
(Start: 103 @52762 has 76 MA's), (123, 52855), (130, 52909), (133, 52927), (148, 52987), (158, 53044),

Gene: LeBruni_73 Start: 37162, Stop: 37683, Start Num: 101
Candidate Starts for LeBruni_73:
(85, 37123), (Start: 101 @37162 has 411 MA's), (139, 37381),

Gene: LeeroyJ_37 Start: 30897, Stop: 31436, Start Num: 101
Candidate Starts for LeeroyJ_37:
(Start: 101 @30897 has 411 MA's), (112, 30921), (143, 31119), (179, 31245), (200, 31344),

Gene: Leona_54 Start: 33587, Stop: 34099, Start Num: 101
Candidate Starts for Leona_54:
(Start: 101 @33587 has 411 MA's), (120, 33668), (127, 33701), (133, 33761), (143, 33809), (148, 33821), (158, 33878), (163, 33893), (170, 33914), (179, 33935),

Gene: Lesiram_44 Start: 26454, Stop: 25951, Start Num: 101
Candidate Starts for Lesiram_44:
(64, 26550), (Start: 101 @26454 has 411 MA's), (143, 26232), (179, 26106),

Gene: Lewan_86 Start: 55312, Stop: 55698, Start Num: 103
Candidate Starts for Lewan_86:
(Start: 103 @55312 has 76 MA's), (117, 55363), (119, 55384), (123, 55405), (129, 55444), (130, 55459), (133, 55477), (146, 55534), (148, 55537), (158, 55594),

Gene: LilDestine_84 Start: 55161, Stop: 55547, Start Num: 103
Candidate Starts for LilDestine_84:
(Start: 103 @55161 has 76 MA's), (117, 55212), (119, 55233), (123, 55254), (129, 55293), (130, 55308), (133, 55326), (146, 55383), (148, 55386), (158, 55443),

Gene: Lilac_102 Start: 60598, Stop: 61038, Start Num: 101
Candidate Starts for Lilac_102:
(Start: 101 @60598 has 411 MA's), (124, 60697), (137, 60793), (148, 60829), (160, 60895), (179, 60943),

Gene: LilhomieP_66 Start: 43867, Stop: 44313, Start Num: 97
Candidate Starts for LilhomieP_66:
(84, 43831), (Start: 97 @43867 has 26 MA's), (120, 43951), (131, 44032), (136, 44056), (179, 44215),

Gene: Lilizi_101 Start: 59884, Stop: 60324, Start Num: 101
Candidate Starts for Lilizi_101:
(Start: 101 @59884 has 411 MA's), (124, 59983), (137, 60079), (148, 60115), (160, 60181), (179, 60229),

Gene: Lilmac1015_45 Start: 31895, Stop: 32452, Start Num: 101
Candidate Starts for Lilmac1015_45:
(Start: 101 @31895 has 411 MA's), (143, 32117), (158, 32186),

Gene: Lilpickle_99 Start: 59100, Stop: 59540, Start Num: 101
Candidate Starts for Lilpickle_99:
(Start: 101 @59100 has 411 MA's), (124, 59199), (148, 59331), (160, 59397), (179, 59445),

Gene: Linus_101 Start: 64523, Stop: 65092, Start Num: 101
Candidate Starts for Linus_101:

(Start: 101 @64523 has 411 MA's), (120, 64604), (130, 64679), (137, 64721), (140, 64733), (143, 64745), (145, 64751), (148, 64757), (163, 64829), (170, 64850), (179, 64871),

Gene: Lishka_43 Start: 28179, Stop: 28640, Start Num: 101
Candidate Starts for Lishka_43:
(16, 27804), (36, 27963), (61, 28071), (Start: 101 @28179 has 411 MA's), (131, 28341), (132, 28347),

Gene: LittleFortune_66 Start: 40852, Stop: 41358, Start Num: 101
Candidate Starts for LittleFortune_66:
(Start: 101 @40852 has 411 MA's), (108, 40867), (143, 41074), (163, 41158), (179, 41200),

Gene: LittleTokyo_52 Start: 31946, Stop: 32464, Start Num: 101
Candidate Starts for LittleTokyo_52:
(36, 31730), (62, 31841), (Start: 101 @31946 has 411 MA's), (117, 32000), (120, 32027), (130, 32102), (133, 32120), (145, 32177), (148, 32183),

Gene: LiyuLake_83 Start: 55500, Stop: 55883, Start Num: 103
Candidate Starts for LiyuLake_83:
(Start: 103 @55500 has 76 MA's), (118, 55560), (119, 55572), (123, 55593), (130, 55653), (148, 55731), (170, 55821),

Gene: Loadrie_83 Start: 55336, Stop: 55722, Start Num: 103
Candidate Starts for Loadrie_83:
(Start: 103 @55336 has 76 MA's), (117, 55387), (119, 55408), (123, 55429), (129, 55468), (130, 55483), (133, 55501), (146, 55558), (148, 55561), (158, 55618),

Gene: Lolly9_82 Start: 55259, Stop: 55642, Start Num: 103
Candidate Starts for Lolly9_82:
(Start: 103 @55259 has 76 MA's), (118, 55319), (119, 55331), (123, 55352), (130, 55412), (133, 55430), (148, 55490), (170, 55580),

Gene: Losacky_47 Start: 28911, Stop: 29402, Start Num: 101
Candidate Starts for Losacky_47:
(Start: 101 @28911 has 411 MA's), (143, 29133), (179, 29259),

Gene: Lozinak_126 Start: 71932, Stop: 72441, Start Num: 101
Candidate Starts for Lozinak_126:
(Start: 101 @71932 has 411 MA's), (109, 71947), (112, 71956), (143, 72154), (179, 72280), (186, 72331), (194, 72391),

Gene: Lucretia_64 Start: 40477, Stop: 40980, Start Num: 101
Candidate Starts for Lucretia_64:
(Start: 101 @40477 has 411 MA's), (108, 40492), (143, 40699), (163, 40783), (179, 40825),

Gene: Lukepolites_39 Start: 30745, Stop: 31308, Start Num: 101
Candidate Starts for Lukepolites_39:
(Start: 101 @30745 has 411 MA's), (112, 30769), (143, 30967), (158, 31036), (159, 31039),

Gene: Lumos_84 Start: 55403, Stop: 55786, Start Num: 103
Candidate Starts for Lumos_84:
(Start: 103 @55403 has 76 MA's), (118, 55463), (119, 55475), (123, 55496), (130, 55556), (133, 55574), (148, 55634), (170, 55724),

Gene: Lymara_99 Start: 62866, Stop: 63429, Start Num: 101
Candidate Starts for Lymara_99:
(Start: 101 @62866 has 411 MA's), (112, 62890), (120, 62947), (131, 63028), (137, 63064), (143, 63088), (158, 63157), (163, 63172), (170, 63193), (179, 63214),

Gene: Lynnae_87 Start: 55269, Stop: 55655, Start Num: 103
Candidate Starts for Lynnae_87:
(Start: 103 @55269 has 76 MA's), (117, 55320), (119, 55341), (123, 55362), (129, 55401), (130, 55416), (133, 55434), (146, 55491), (148, 55494), (158, 55551),

Gene: MAckerman_81 Start: 52756, Stop: 53139, Start Num: 103
Candidate Starts for MAckerman_81:
(Start: 103 @52756 has 76 MA's), (123, 52849), (130, 52903), (133, 52921), (148, 52981), (158, 53038),

Gene: MISSy_101 Start: 60384, Stop: 60824, Start Num: 101
Candidate Starts for MISSy_101:
(Start: 101 @60384 has 411 MA's), (124, 60483), (148, 60615), (160, 60681), (179, 60729),

Gene: MPhalcon_101 Start: 59801, Stop: 60241, Start Num: 101
Candidate Starts for MPhalcon_101:
(Start: 101 @59801 has 411 MA's), (124, 59900), (148, 60032), (160, 60098), (179, 60146),

Gene: MUWow_71 Start: 38583, Stop: 39104, Start Num: 101
Candidate Starts for MUWow_71:
(Start: 101 @38583 has 411 MA's), (129, 38724), (139, 38802), (159, 38889), (160, 38895),

Gene: MadamMonkfish_100 Start: 59307, Stop: 59747, Start Num: 101
Candidate Starts for MadamMonkfish_100:
(Start: 101 @59307 has 411 MA's), (124, 59406), (137, 59502), (148, 59538), (160, 59604), (179, 59652),

Gene: Makar_90 Start: 55900, Stop: 56322, Start Num: 101
Candidate Starts for Makar_90:
(34, 55675), (40, 55714), (44, 55723), (Start: 101 @55900 has 411 MA's), (121, 55984), (123, 55996), (125, 56002), (159, 56194), (160, 56200),

Gene: Manda_101 Start: 59838, Stop: 60278, Start Num: 101
Candidate Starts for Manda_101:
(47, 59691), (56, 59721), (73, 59769), (80, 59784), (82, 59796), (Start: 101 @59838 has 411 MA's), (120, 59919), (124, 59937), (148, 60069), (160, 60135), (179, 60183),

Gene: Mapleville_67 Start: 36770, Stop: 37291, Start Num: 101
Candidate Starts for Mapleville_67:
(Start: 101 @36770 has 411 MA's), (125, 36872), (139, 36989),

Gene: Margaery_59 Start: 40552, Stop: 41055, Start Num: 101
Candidate Starts for Margaery_59:
(67, 40465), (Start: 101 @40552 has 411 MA's), (133, 40726), (143, 40774), (163, 40858),

Gene: MargaretKali_51 Start: 30616, Stop: 31116, Start Num: 101
Candidate Starts for MargaretKali_51:

(Start: 101 @30616 has 411 MA's), (120, 30697), (123, 30712), (136, 30802), (137, 30814), (143, 30838), (179, 30964),

Gene: Mariel_48 Start: 29119, Stop: 29610, Start Num: 101
Candidate Starts for Mariel_48:
(Start: 101 @29119 has 411 MA's), (143, 29341), (179, 29467),

Gene: Marshmallow_97 Start: 59796, Stop: 60236, Start Num: 101
Candidate Starts for Marshmallow_97:
(35, 59595), (36, 59598), (Start: 41 @59625 has 1 MA's), (42, 59628), (51, 59670), (71, 59724), (Start: 101 @59796 has 411 MA's), (120, 59877), (124, 59895), (148, 60027), (160, 60093), (179, 60141),

Gene: Martha_37 Start: 30823, Stop: 31371, Start Num: 101
Candidate Starts for Martha_37:
(68, 30736), (Start: 101 @30823 has 411 MA's), (112, 30847), (133, 30997), (136, 31009), (143, 31045), (170, 31150), (179, 31171), (197, 31255),

Gene: Maruru_48 Start: 38164, Stop: 38760, Start Num: 101
Candidate Starts for Maruru_48:
(Start: 101 @38164 has 411 MA's), (136, 38350), (146, 38395), (163, 38470),

Gene: MaryV_78 Start: 48977, Stop: 49366, Start Num: 100
Candidate Starts for MaryV_78:
(Start: 100 @48977 has 8 MA's), (124, 49073), (130, 49124), (133, 49142), (145, 49196), (159, 49262), (179, 49316),

Gene: MaterMagnus_71 Start: 38743, Stop: 39261, Start Num: 101
Candidate Starts for MaterMagnus_71:
(Start: 101 @38743 has 411 MA's), (125, 38845), (139, 38962),

Gene: Matzah_62 Start: 41397, Stop: 41900, Start Num: 101
Candidate Starts for Matzah_62:
(Start: 101 @41397 has 411 MA's), (133, 41571), (143, 41619), (145, 41625), (146, 41628), (163, 41703),

Gene: Maxxinista_102 Start: 59784, Stop: 60224, Start Num: 101
Candidate Starts for Maxxinista_102:
(Start: 101 @59784 has 411 MA's), (124, 59883), (137, 59979), (148, 60015), (160, 60081), (179, 60129),

Gene: Megan_61 Start: 44759, Stop: 45289, Start Num: 96
Candidate Starts for Megan_61:
(Start: 96 @44759 has 11 MA's), (Start: 101 @44762 has 411 MA's), (121, 44846), (143, 44984), (160, 45062), (163, 45068), (179, 45110),

Gene: MellowYellow_97 Start: 57337, Stop: 56732, Start Num: 101
Candidate Starts for MellowYellow_97:
(Start: 101 @57337 has 411 MA's), (117, 57283), (131, 57175), (159, 57043), (160, 57037), (163, 57031),

Gene: MementoMori_61 Start: 40995, Stop: 41495, Start Num: 101
Candidate Starts for MementoMori_61:

(85, 40959), (86, 40962), (Start: 101 @40995 has 411 MA's), (112, 41019), (143, 41217), (145, 41223), (146, 41226), (163, 41301),

Gene: MenE_47 Start: 28803, Stop: 29294, Start Num: 101
Candidate Starts for MenE_47:
(Start: 101 @28803 has 411 MA's), (143, 29025), (179, 29151),

Gene: Merry_ Start: 42731, Stop: 43237, Start Num: 101
Candidate Starts for Merry_:
(Start: 101 @42731 has 411 MA's), (133, 42905), (137, 42929), (141, 42944), (150, 42974), (163, 43037), (179, 43079),

Gene: Metamorphoo_67 Start: 41843, Stop: 42346, Start Num: 96
Candidate Starts for Metamorphoo_67:
(Start: 96 @41843 has 11 MA's), (133, 42017), (143, 42065), (179, 42191),

Gene: MicyPS_75 Start: 48218, Stop: 47601, Start Num: 101
Candidate Starts for MicyPS_75:
(76, 48284), (Start: 101 @48218 has 411 MA's), (137, 48020), (143, 47996), (151, 47972), (158, 47927),

Gene: MidnightRain_74 Start: 38613, Stop: 39080, Start Num: 106
Candidate Starts for MidnightRain_74:
(Start: 106 @38613 has 8 MA's), (117, 38658), (141, 38814),

Gene: Miley16_85 Start: 55471, Stop: 55857, Start Num: 103
Candidate Starts for Miley16_85:
(Start: 103 @55471 has 76 MA's), (117, 55522), (119, 55543), (123, 55564), (129, 55603), (130, 55618), (133, 55636), (146, 55693), (148, 55696), (158, 55753),

Gene: Min1_23 Start: 11006, Stop: 11470, Start Num: 101
Candidate Starts for Min1_23:
(Start: 101 @11006 has 411 MA's), (108, 11021), (113, 11033), (120, 11087), (133, 11180), (137, 11204), (143, 11228), (163, 11312),

Gene: Mindy_99 Start: 59117, Stop: 59557, Start Num: 101
Candidate Starts for Mindy_99:
(Start: 101 @59117 has 411 MA's), (124, 59216), (148, 59348), (160, 59414), (179, 59462),

Gene: MiniLon_87 Start: 55260, Stop: 55643, Start Num: 103
Candidate Starts for MiniLon_87:
(Start: 103 @55260 has 76 MA's), (118, 55320), (119, 55332), (123, 55353), (130, 55413), (133, 55431), (148, 55491), (170, 55581),

Gene: MiniMac_87 Start: 55255, Stop: 55638, Start Num: 103
Candidate Starts for MiniMac_87:
(Start: 103 @55255 has 76 MA's), (118, 55315), (119, 55327), (123, 55348), (130, 55408), (133, 55426), (148, 55486), (170, 55576),

Gene: Miniwave_95 Start: 59294, Stop: 59734, Start Num: 101
Candidate Starts for Miniwave_95:
(Start: 101 @59294 has 411 MA's), (120, 59375), (124, 59393), (148, 59525), (160, 59591), (179, 59639),

Gene: Misfit_101 Start: 60897, Stop: 61337, Start Num: 101
Candidate Starts for Misfit_101:
(Start: 101 @60897 has 411 MA's), (124, 60996), (137, 61092), (148, 61128), (160, 61194), (179, 61242),

Gene: Miskis_121 Start: 71364, Stop: 71873, Start Num: 101
Candidate Starts for Miskis_121:
(Start: 101 @71364 has 411 MA's), (109, 71379), (112, 71388), (143, 71586), (179, 71712), (186, 71763), (194, 71823),

Gene: MkaliMitinis3_86 Start: 55320, Stop: 55706, Start Num: 103
Candidate Starts for MkaliMitinis3_86:
(Start: 103 @55320 has 76 MA's), (117, 55371), (119, 55392), (123, 55413), (129, 55452), (130, 55467), (133, 55485), (146, 55542), (148, 55545), (158, 55602),

Gene: Mojorita_46 Start: 31281, Stop: 31766, Start Num: 101
Candidate Starts for Mojorita_46:
(38, 31095), (59, 31176), (63, 31185), (Start: 101 @31281 has 411 MA's), (145, 31509),

Gene: Moldemort_103 Start: 59765, Stop: 60205, Start Num: 101
Candidate Starts for Moldemort_103:
(Start: 101 @59765 has 411 MA's), (124, 59864), (137, 59960), (148, 59996), (160, 60062), (179, 60110),

Gene: MollyToe_94 Start: 57695, Stop: 58135, Start Num: 101
Candidate Starts for MollyToe_94:
(35, 57494), (36, 57497), (Start: 41 @57524 has 1 MA's), (42, 57527), (51, 57569), (71, 57623), (Start: 101 @57695 has 411 MA's), (120, 57776), (124, 57794), (148, 57926), (160, 57992), (179, 58040),

Gene: Mollymur_84 Start: 57822, Stop: 57259, Start Num: 101
Candidate Starts for Mollymur_84:
(Start: 101 @57822 has 411 MA's), (123, 57723), (163, 57489),

Gene: Moostard_81 Start: 55178, Stop: 55561, Start Num: 103
Candidate Starts for Moostard_81:
(Start: 103 @55178 has 76 MA's), (118, 55238), (119, 55250), (123, 55271), (130, 55331), (133, 55349), (148, 55409), (170, 55499),

Gene: Mordred_101 Start: 64114, Stop: 64683, Start Num: 101
Candidate Starts for Mordred_101:
(Start: 101 @64114 has 411 MA's), (120, 64195), (130, 64270), (137, 64312), (143, 64336), (145, 64342), (148, 64348), (163, 64420), (170, 64441), (179, 64462),

Gene: Mosby_96 Start: 59261, Stop: 59701, Start Num: 101
Candidate Starts for Mosby_96:
(Start: 101 @59261 has 411 MA's), (124, 59360), (137, 59456), (148, 59492), (160, 59558), (179, 59606),

Gene: MoyaNatalis_101 Start: 64054, Stop: 64611, Start Num: 101
Candidate Starts for MoyaNatalis_101:
(Start: 101 @64054 has 411 MA's), (112, 64078), (120, 64135), (131, 64216), (137, 64252), (140, 64264), (143, 64276), (145, 64282), (148, 64288), (163, 64360), (179, 64402),

Gene: MrMagoo_77 Start: 46450, Stop: 46887, Start Num: 97
Candidate Starts for MrMagoo_77:
(Start: 97 @46450 has 26 MA's), (120, 46534), (131, 46615),

Gene: MsGreen_84 Start: 55405, Stop: 55788, Start Num: 103
Candidate Starts for MsGreen_84:
(Start: 103 @55405 has 76 MA's), (118, 55465), (119, 55477), (123, 55498), (130, 55558), (133, 55576), (148, 55636), (170, 55726),

Gene: Mufasa8_48 Start: 36302, Stop: 36853, Start Num: 101
Candidate Starts for Mufasa8_48:
(Start: 101 @36302 has 411 MA's), (120, 36383), (143, 36524), (148, 36536),

Gene: Murica_103 Start: 61600, Stop: 62040, Start Num: 101
Candidate Starts for Murica_103:
(Start: 101 @61600 has 411 MA's), (124, 61699), (148, 61831), (160, 61897), (179, 61945),

Gene: Murphy_100 Start: 60156, Stop: 60596, Start Num: 101
Candidate Starts for Murphy_100:
(Start: 101 @60156 has 411 MA's), (124, 60255), (148, 60387), (160, 60453), (179, 60501),

Gene: MurphyJoseph_68 Start: 36529, Stop: 37035, Start Num: 101
Candidate Starts for MurphyJoseph_68:
(Start: 101 @36529 has 411 MA's), (125, 36631), (139, 36748),

Gene: Music_38 Start: 32590, Stop: 33141, Start Num: 101
Candidate Starts for Music_38:
(Start: 101 @32590 has 411 MA's), (112, 32614), (131, 32752), (143, 32812), (148, 32824),

Gene: Myrale_100 Start: 59956, Stop: 60396, Start Num: 101
Candidate Starts for Myrale_100:
(35, 59755), (36, 59758), (Start: 41 @59785 has 1 MA's), (42, 59788), (51, 59830), (71, 59884), (Start: 101 @59956 has 411 MA's), (120, 60037), (124, 60055), (148, 60187), (160, 60253), (179, 60301),

Gene: NCRodriguez_47 Start: 28874, Stop: 29365, Start Num: 101
Candidate Starts for NCRodriguez_47:
(Start: 101 @28874 has 411 MA's), (143, 29096), (150, 29117), (163, 29180), (179, 29222),

Gene: Nala_102 Start: 60310, Stop: 60750, Start Num: 101
Candidate Starts for Nala_102:
(Start: 101 @60310 has 411 MA's), (124, 60409), (137, 60505), (148, 60541), (160, 60607), (179, 60655),

Gene: Nandito_43 Start: 31585, Stop: 32151, Start Num: 101
Candidate Starts for Nandito_43:
(Start: 101 @31585 has 411 MA's),

Gene: Nanosmite_72 Start: 45490, Stop: 45942, Start Num: 97
Candidate Starts for Nanosmite_72:
(Start: 97 @45490 has 26 MA's), (151, 45739),

Gene: NathanVaag_35 Start: 30573, Stop: 31163, Start Num: 101

Candidate Starts for NathanVaag_35:
(Start: 101 @30573 has 411 MA's), (112, 30597), (143, 30795), (175, 30909), (197, 31044),

Gene: NelitzaMV_97 Start: 58304, Stop: 58744, Start Num: 101
Candidate Starts for NelitzaMV_97:
(71, 58232), (Start: 101 @58304 has 411 MA's), (124, 58403), (137, 58499), (148, 58535), (160, 58601), (179, 58649),

Gene: Netyap_86 Start: 55472, Stop: 55858, Start Num: 103
Candidate Starts for Netyap_86:
(Start: 103 @55472 has 76 MA's), (117, 55523), (119, 55544), (123, 55565), (129, 55604), (130, 55619), (133, 55637), (146, 55694), (148, 55697), (158, 55754),

Gene: NewKitty_74 Start: 39038, Stop: 39523, Start Num: 115
Candidate Starts for NewKitty_74:
(Start: 101 @39002 has 411 MA's), (115, 39038), (139, 39221),

Gene: Niblet_57 Start: 34610, Stop: 35089, Start Num: 101
Candidate Starts for Niblet_57:
(Start: 101 @34610 has 411 MA's), (120, 34691), (133, 34784), (143, 34832), (145, 34838), (148, 34844), (163, 34916),

Gene: Nicholas_81 Start: 55183, Stop: 55566, Start Num: 103
Candidate Starts for Nicholas_81:
(Start: 103 @55183 has 76 MA's), (118, 55243), (119, 55255), (123, 55276), (130, 55336), (133, 55354), (148, 55414), (170, 55504),

Gene: Nicholasp3_85 Start: 55306, Stop: 55692, Start Num: 103
Candidate Starts for Nicholasp3_85:
(Start: 103 @55306 has 76 MA's), (117, 55357), (119, 55378), (123, 55399), (129, 55438), (130, 55453), (133, 55471), (146, 55528), (148, 55531), (158, 55588),

Gene: Nicole72_62 Start: 45253, Stop: 45780, Start Num: 101
Candidate Starts for Nicole72_62:
(Start: 101 @45253 has 411 MA's), (112, 45277), (113, 45280), (133, 45427), (143, 45475), (163, 45559), (179, 45601),

Gene: Nikan_93 Start: 57119, Stop: 56496, Start Num: 101
Candidate Starts for Nikan_93:
(79, 57176), (Start: 101 @57119 has 411 MA's), (123, 57023), (131, 56957), (137, 56921), (159, 56825), (167, 56804),

Gene: Nimrod_100 Start: 59923, Stop: 60363, Start Num: 101
Candidate Starts for Nimrod_100:
(35, 59722), (36, 59725), (Start: 41 @59752 has 1 MA's), (42, 59755), (51, 59797), (71, 59851), (Start: 101 @59923 has 411 MA's), (120, 60004), (124, 60022), (148, 60154), (160, 60220), (179, 60268),

Gene: NoSleep_101 Start: 59317, Stop: 59757, Start Num: 101
Candidate Starts for NoSleep_101:
(Start: 101 @59317 has 411 MA's), (124, 59416), (137, 59512), (148, 59548), (160, 59614), (179, 59662),

Gene: NonchalantPear_98 Start: 58632, Stop: 58991, Start Num: 120

Candidate Starts for NonchalantPear_98:
(35, 58350), (36, 58353), (Start: 41 @58380 has 1 MA's), (42, 58383), (51, 58425), (71, 58479), (Start: 101 @58551 has 411 MA's), (120, 58632), (124, 58650), (148, 58782), (160, 58848), (179, 58896),

Gene: NoodlelyBoi_65 Start: 41341, Stop: 41841, Start Num: 96
Candidate Starts for NoodlelyBoi_65:
(Start: 96 @41341 has 11 MA's), (137, 41539), (143, 41563), (163, 41647), (179, 41689),

Gene: Norvs_125 Start: 71351, Stop: 71860, Start Num: 101
Candidate Starts for Norvs_125:
(Start: 101 @71351 has 411 MA's), (109, 71366), (112, 71375), (143, 71573), (179, 71699), (186, 71750), (194, 71810),

Gene: Nostromo_35 Start: 29713, Stop: 30264, Start Num: 101
Candidate Starts for Nostromo_35:
(Start: 101 @29713 has 411 MA's), (120, 29797), (131, 29878), (133, 29890), (143, 29938), (148, 29950), (160, 30016),

Gene: Nyilah_73 Start: 37600, Stop: 38106, Start Num: 101
Candidate Starts for Nyilah_73:
(Start: 101 @37600 has 411 MA's), (129, 37741), (139, 37819),

Gene: NyleyClemson_96 Start: 56955, Stop: 56350, Start Num: 101
Candidate Starts for NyleyClemson_96:
(Start: 101 @56955 has 411 MA's), (131, 56793), (159, 56661), (160, 56655), (163, 56649), (170, 56628),

Gene: Odyssey395_96 Start: 57117, Stop: 56512, Start Num: 101
Candidate Starts for Odyssey395_96:
(Start: 101 @57117 has 411 MA's), (117, 57063), (131, 56955), (159, 56823), (160, 56817), (163, 56811), (180, 56766),

Gene: OhShagHennessy_79 Start: 53016, Stop: 53399, Start Num: 103
Candidate Starts for OhShagHennessy_79:
(93, 53001), (Start: 103 @53016 has 76 MA's), (123, 53109), (130, 53163), (133, 53181), (148, 53241), (158, 53298),

Gene: Ollypop_91 Start: 57958, Stop: 57332, Start Num: 101
Candidate Starts for Ollypop_91:
(46, 58114), (81, 58012), (Start: 101 @57958 has 411 MA's), (115, 57922), (116, 57919), (117, 57904), (120, 57877), (123, 57862), (131, 57796), (167, 57643), (180, 57607),

Gene: OneUp_111 Start: 69624, Stop: 70130, Start Num: 101
Candidate Starts for OneUp_111:
(Start: 101 @69624 has 411 MA's), (137, 69822),

Gene: Onika_63 Start: 40570, Stop: 41076, Start Num: 101
Candidate Starts for Onika_63:
(Start: 101 @40570 has 411 MA's), (108, 40585), (143, 40792), (163, 40876), (179, 40918),

Gene: Oppalora_54 Start: 33506, Stop: 34015, Start Num: 101
Candidate Starts for Oppalora_54:

(Start: 101 @33506 has 411 MA's), (116, 33545), (120, 33587), (127, 33620), (133, 33680), (143, 33728), (148, 33740), (158, 33797), (163, 33812), (170, 33833), (179, 33854),

Gene: Orcanus_53 Start: 34413, Stop: 34919, Start Num: 101
Candidate Starts for Orcanus_53:
(49, 34269), (Start: 101 @34413 has 411 MA's), (120, 34494), (133, 34587), (143, 34635), (145, 34641), (163, 34719), (181, 34770),

Gene: OrionPax_99 Start: 59389, Stop: 59829, Start Num: 101
Candidate Starts for OrionPax_99:
(Start: 101 @59389 has 411 MA's), (124, 59488), (137, 59584), (148, 59620), (160, 59686), (179, 59734),

Gene: Orkz_48 Start: 32007, Stop: 32492, Start Num: 101
Candidate Starts for Orkz_48:
(Start: 101 @32007 has 411 MA's), (112, 32031), (143, 32229),

Gene: Ottawa_81 Start: 48211, Stop: 48849, Start Num: 101
Candidate Starts for Ottawa_81:
(Start: 101 @48211 has 411 MA's), (120, 48292), (163, 48514),

Gene: OverPar_87 Start: 55336, Stop: 55722, Start Num: 103
Candidate Starts for OverPar_87:
(Start: 103 @55336 has 76 MA's), (117, 55387), (119, 55408), (123, 55429), (129, 55468), (130, 55483), (133, 55501), (146, 55558), (148, 55561), (158, 55618),

Gene: PFR1_50 Start: 34850, Stop: 35323, Start Num: 101
Candidate Starts for PFR1_50:
(Start: 101 @34850 has 411 MA's), (113, 34877), (133, 35024), (137, 35048), (143, 35072), (145, 35078), (158, 35141), (167, 35165), (170, 35177),

Gene: PFR2_52 Start: 36419, Stop: 36892, Start Num: 101
Candidate Starts for PFR2_52:
(Start: 101 @36419 has 411 MA's), (113, 36446), (133, 36593), (137, 36617), (143, 36641), (145, 36647), (158, 36710), (167, 36734), (170, 36746),

Gene: PSonyx_96 Start: 53094, Stop: 52513, Start Num: 101
Candidate Starts for PSonyx_96:
(76, 53160), (Start: 101 @53094 has 411 MA's), (117, 53040), (137, 52896), (143, 52872),

Gene: PYPDinur_82 Start: 54492, Stop: 54899, Start Num: 103
Candidate Starts for PYPDinur_82:
(Start: 103 @54492 has 76 MA's), (119, 54564), (123, 54585), (129, 54624), (146, 54714), (148, 54717), (184, 54858),

Gene: PaddyBaddy_100 Start: 59508, Stop: 59948, Start Num: 101
Candidate Starts for PaddyBaddy_100:
(Start: 101 @59508 has 411 MA's), (124, 59607), (137, 59703), (148, 59739), (160, 59805), (179, 59853),

Gene: Palpatine_101 Start: 60595, Stop: 61035, Start Num: 101
Candidate Starts for Palpatine_101:

(Start: 101 @60595 has 411 MA's), (124, 60694), (137, 60790), (148, 60826), (160, 60892), (179, 60940),

Gene: PapayaSalad_45 Start: 30774, Stop: 31235, Start Num: 101
Candidate Starts for PapayaSalad_45:
(31, 30519), (32, 30534), (69, 30690), (Start: 101 @30774 has 411 MA's), (131, 30936), (132, 30942),

Gene: Paperbeatsrock_99 Start: 59972, Stop: 60412, Start Num: 101
Candidate Starts for Paperbeatsrock_99:
(Start: 101 @59972 has 411 MA's), (120, 60053), (124, 60071), (148, 60203), (160, 60269), (179, 60317),

Gene: Paschalis_64 Start: 40592, Stop: 41095, Start Num: 101
Candidate Starts for Paschalis_64:
(Start: 101 @40592 has 411 MA's), (108, 40607), (143, 40814), (163, 40898), (179, 40940),

Gene: Pat3_97 Start: 58489, Stop: 58929, Start Num: 101
Candidate Starts for Pat3_97:
(78, 58432), (Start: 101 @58489 has 411 MA's), (124, 58588), (148, 58720), (160, 58786), (179, 58834),

Gene: PegLeg_66 Start: 43606, Stop: 44052, Start Num: 97
Candidate Starts for PegLeg_66:
(84, 43570), (Start: 97 @43606 has 26 MA's), (120, 43690), (131, 43771), (136, 43795), (179, 43954),

Gene: Pelletreau_64 Start: 35301, Stop: 35780, Start Num: 101
Candidate Starts for Pelletreau_64:
(Start: 101 @35301 has 411 MA's), (120, 35382), (133, 35475), (143, 35523), (145, 35529), (163, 35607), (181, 35658),

Gene: Persistence_65 Start: 36167, Stop: 36694, Start Num: 101
Candidate Starts for Persistence_65:
(Start: 101 @36167 has 411 MA's), (139, 36386), (160, 36479), (167, 36494),

Gene: Petra64142_104 Start: 60461, Stop: 60901, Start Num: 101
Candidate Starts for Petra64142_104:
(71, 60389), (Start: 101 @60461 has 411 MA's), (124, 60560), (137, 60656), (148, 60692), (160, 60758), (179, 60806),

Gene: PetriParty_56 Start: 34889, Stop: 35326, Start Num: 101
Candidate Starts for PetriParty_56:
(Start: 101 @34889 has 411 MA's), (120, 34970),

Gene: Phaja_98 Start: 59176, Stop: 59616, Start Num: 101
Candidate Starts for Phaja_98:
(35, 58975), (36, 58978), (Start: 41 @59005 has 1 MA's), (42, 59008), (51, 59050), (71, 59104), (Start: 101 @59176 has 411 MA's), (120, 59257), (124, 59275), (148, 59407), (160, 59473), (179, 59521),

Gene: Pharsalus_97 Start: 59671, Stop: 60111, Start Num: 101
Candidate Starts for Pharsalus_97:
(Start: 101 @59671 has 411 MA's), (124, 59770), (148, 59902), (160, 59968), (179, 60016),

Gene: PhatBacter_103 Start: 60340, Stop: 60780, Start Num: 101

Candidate Starts for PhatBacter_103:
(Start: 101 @60340 has 411 MA's), (124, 60439), (137, 60535), (148, 60571), (160, 60637), (179, 60685),

Gene: Phaux_102 Start: 60900, Stop: 61340, Start Num: 101
Candidate Starts for Phaux_102:
(Start: 101 @60900 has 411 MA's), (124, 60999), (137, 61095), (148, 61131), (160, 61197), (179, 61245),

Gene: PhedwardCullen_62 Start: 40315, Stop: 40818, Start Num: 101
Candidate Starts for PhedwardCullen_62:
(Start: 101 @40315 has 411 MA's), (108, 40330), (143, 40537), (163, 40621), (179, 40663),

Gene: PhillyJawn_46 Start: 28535, Stop: 29029, Start Num: 101
Candidate Starts for PhillyJawn_46:
(Start: 101 @28535 has 411 MA's), (143, 28757), (150, 28778), (179, 28883),

Gene: Phingu_48 Start: 28765, Stop: 29259, Start Num: 101
Candidate Starts for Phingu_48:
(Start: 101 @28765 has 411 MA's), (143, 28987), (150, 29008), (163, 29071), (179, 29113),

Gene: PhinkBoden_126 Start: 72216, Stop: 72725, Start Num: 101
Candidate Starts for PhinkBoden_126:
(Start: 101 @72216 has 411 MA's), (109, 72231), (112, 72240), (143, 72438), (179, 72564), (186, 72615), (194, 72675),

Gene: PhluffyCoco_55 Start: 33606, Stop: 34115, Start Num: 101
Candidate Starts for PhluffyCoco_55:
(Start: 101 @33606 has 411 MA's), (116, 33645), (120, 33687), (127, 33720), (133, 33780), (143, 33828), (148, 33840), (158, 33897), (163, 33912), (170, 33933), (179, 33954),

Gene: Phonegingi_45 Start: 28583, Stop: 29074, Start Num: 101
Candidate Starts for Phonegingi_45:
(Start: 101 @28583 has 411 MA's), (143, 28805), (163, 28889), (179, 28931),

Gene: Phorgeous_64 Start: 40378, Stop: 40884, Start Num: 101
Candidate Starts for Phorgeous_64:
(Start: 101 @40378 has 411 MA's), (108, 40393), (143, 40600), (163, 40684), (179, 40726),

Gene: Phrancesco_64 Start: 40701, Stop: 41207, Start Num: 101
Candidate Starts for Phrancesco_64:
(Start: 101 @40701 has 411 MA's), (108, 40716), (143, 40923), (163, 41007), (179, 41049),

Gene: Phrank15_74 Start: 38031, Stop: 38585, Start Num: 101
Candidate Starts for Phrank15_74:
(85, 37992), (Start: 101 @38031 has 411 MA's), (125, 38133), (139, 38250),

Gene: Phrux_97 Start: 59176, Stop: 59616, Start Num: 101
Candidate Starts for Phrux_97:
(Start: 101 @59176 has 411 MA's), (124, 59275), (137, 59371), (148, 59407), (160, 59473), (179, 59521),

Gene: PhuzzTulsa_94 Start: 57565, Stop: 56960, Start Num: 101

Candidate Starts for PhuzzTulsa_94:
(Start: 101 @57565 has 411 MA's), (117, 57511), (131, 57403), (159, 57271), (160, 57265), (163, 57259), (170, 57238),

Gene: Picard_46 Start: 31479, Stop: 31958, Start Num: 101
Candidate Starts for Picard_46:
(13, 31044), (23, 31185), (26, 31200), (38, 31293), (59, 31374), (Start: 101 @31479 has 411 MA's), (133, 31653), (145, 31707),

Gene: Piccadilly_45 Start: 30655, Stop: 31134, Start Num: 101
Candidate Starts for Piccadilly_45:
(Start: 101 @30655 has 411 MA's), (158, 30946),

Gene: Piccoletto_35 Start: 30574, Stop: 31161, Start Num: 101
Candidate Starts for Piccoletto_35:
(Start: 101 @30574 has 411 MA's), (112, 30598), (143, 30796), (175, 30910), (197, 31045),

Gene: Pickles13_44 Start: 28847, Stop: 29341, Start Num: 101
Candidate Starts for Pickles13_44:
(Start: 101 @28847 has 411 MA's), (143, 29069), (150, 29090), (163, 29153), (179, 29195),

Gene: PierreOrion_64 Start: 40801, Stop: 41307, Start Num: 101
Candidate Starts for PierreOrion_64:
(Start: 101 @40801 has 411 MA's), (108, 40816), (143, 41023), (163, 41107), (179, 41149),

Gene: Pigu_55 Start: 30241, Stop: 30699, Start Num: 101
Candidate Starts for Pigu_55:
(Start: 101 @30241 has 411 MA's), (112, 30265), (117, 30295), (163, 30559),

Gene: PiperSansNom_65 Start: 40883, Stop: 41386, Start Num: 101
Candidate Starts for PiperSansNom_65:
(Start: 101 @40883 has 411 MA's), (108, 40898), (143, 41105), (163, 41189), (179, 41231),

Gene: Piperis_65 Start: 40503, Stop: 41009, Start Num: 101
Candidate Starts for Piperis_65:
(Start: 101 @40503 has 411 MA's), (108, 40518), (143, 40725), (163, 40809), (179, 40851),

Gene: Pippa_37 Start: 30966, Stop: 31526, Start Num: 101
Candidate Starts for Pippa_37:
(Start: 101 @30966 has 411 MA's), (112, 30990), (143, 31188), (170, 31293), (175, 31302), (179, 31314), (197, 31410),

Gene: Pitbull_60 Start: 34082, Stop: 34579, Start Num: 100
Candidate Starts for Pitbull_60:
(Start: 100 @34082 has 8 MA's), (133, 34256), (158, 34373), (170, 34409), (179, 34430),

Gene: Pointis_93 Start: 57013, Stop: 56408, Start Num: 101
Candidate Starts for Pointis_93:
(Start: 101 @57013 has 411 MA's), (117, 56959), (131, 56851), (159, 56719), (160, 56713), (163, 56707), (180, 56662),

Gene: Policronamos_102 Start: 60604, Stop: 61044, Start Num: 101
Candidate Starts for Policronamos_102:

(Start: 101 @60604 has 411 MA's), (124, 60703), (137, 60799), (148, 60835), (160, 60901), (179, 60949),

Gene: Poochiewood_80 Start: 54099, Stop: 54482, Start Num: 103
Candidate Starts for Poochiewood_80:
(Start: 103 @54099 has 76 MA's), (123, 54192), (130, 54246), (133, 54264), (148, 54324), (158, 54381),

Gene: Popstraw_92 Start: 57189, Stop: 56584, Start Num: 101
Candidate Starts for Popstraw_92:
(Start: 101 @57189 has 411 MA's), (117, 57135), (131, 57027), (159, 56895), (160, 56889), (163, 56883),

Gene: Porky_99 Start: 58920, Stop: 59360, Start Num: 101
Candidate Starts for Porky_99:
(Start: 101 @58920 has 411 MA's), (124, 59019), (137, 59115), (148, 59151), (160, 59217), (179, 59265),

Gene: Prairie_42 Start: 31210, Stop: 31767, Start Num: 101
Candidate Starts for Prairie_42:
(Start: 101 @31210 has 411 MA's), (143, 31432), (158, 31501), (179, 31558),

Gene: PrincessTrina_102 Start: 64305, Stop: 64874, Start Num: 101
Candidate Starts for PrincessTrina_102:
(Start: 101 @64305 has 411 MA's), (120, 64386), (130, 64461), (137, 64503), (143, 64527), (145, 64533), (148, 64539), (163, 64611), (170, 64632), (179, 64653),

Gene: Ptowny_96 Start: 58093, Stop: 58452, Start Num: 120
Candidate Starts for Ptowny_96:
(35, 57811), (36, 57814), (Start: 41 @57841 has 1 MA's), (42, 57844), (51, 57886), (71, 57940), (Start: 101 @58012 has 411 MA's), (120, 58093), (124, 58111), (148, 58243), (160, 58309), (179, 58357),

Gene: Pulchra_66 Start: 40899, Stop: 41405, Start Num: 101
Candidate Starts for Pulchra_66:
(Start: 101 @40899 has 411 MA's), (108, 40914), (143, 41121), (163, 41205), (179, 41247),

Gene: Pumpkin_102 Start: 59517, Stop: 59957, Start Num: 101
Candidate Starts for Pumpkin_102:
(42, 59355), (71, 59445), (Start: 101 @59517 has 411 MA's), (124, 59616), (148, 59748), (160, 59814), (179, 59862),

Gene: Pureglobe5_96 Start: 57675, Stop: 57070, Start Num: 101
Candidate Starts for Pureglobe5_96:
(Start: 101 @57675 has 411 MA's), (117, 57621), (131, 57513), (159, 57381), (160, 57375), (163, 57369), (180, 57324),

Gene: Purplicious_86 Start: 55193, Stop: 55615, Start Num: 101
Candidate Starts for Purplicious_86:
(34, 54968), (40, 55007), (60, 55088), (95, 55190), (Start: 101 @55193 has 411 MA's), (121, 55277), (125, 55295), (159, 55487), (160, 55493),

Gene: Quallification_101 Start: 60386, Stop: 60826, Start Num: 101
Candidate Starts for Quallification_101:

(Start: 101 @60386 has 411 MA's), (124, 60485), (137, 60581), (148, 60617), (160, 60683), (179, 60731),

Gene: Quby_83 Start: 53820, Stop: 54227, Start Num: 103
Candidate Starts for Quby_83:
(Start: 103 @53820 has 76 MA's), (119, 53892), (123, 53913), (129, 53952), (130, 53967), (136, 53997), (146, 54042), (148, 54045), (184, 54186),

Gene: Quhwah_68 Start: 41191, Stop: 41694, Start Num: 101
Candidate Starts for Quhwah_68:
(Start: 101 @41191 has 411 MA's), (108, 41206), (143, 41413), (163, 41497), (179, 41539),

Gene: REQ3_26 Start: 12169, Stop: 12615, Start Num: 102
Candidate Starts for REQ3_26:
(102, 12169), (116, 12205), (117, 12220), (131, 12328), (133, 12340), (140, 12376), (179, 12514),

Gene: RadFad_76 Start: 38827, Stop: 39300, Start Num: 106
Candidate Starts for RadFad_76:
(Start: 106 @38827 has 8 MA's), (117, 38872), (141, 39028),

Gene: Rakim_101 Start: 59237, Stop: 59848, Start Num: 41
Candidate Starts for Rakim_101:
(35, 59207), (36, 59210), (Start: 41 @59237 has 1 MA's), (42, 59240), (51, 59282), (71, 59336), (Start: 101 @59408 has 411 MA's), (124, 59507), (148, 59639), (160, 59705), (179, 59753),

Gene: Raleigh_44 Start: 33967, Stop: 34464, Start Num: 101
Candidate Starts for Raleigh_44:
(54, 33844), (57, 33853), (Start: 101 @33967 has 411 MA's), (123, 34063), (130, 34123), (132, 34135), (145, 34195),

Gene: Ramiel05_63 Start: 40561, Stop: 41067, Start Num: 101
Candidate Starts for Ramiel05_63:
(Start: 101 @40561 has 411 MA's), (108, 40576), (143, 40783), (163, 40867), (179, 40909),

Gene: Ranunculus_85 Start: 57963, Stop: 57334, Start Num: 101
Candidate Starts for Ranunculus_85:
(83, 58008), (Start: 101 @57963 has 411 MA's), (120, 57882), (133, 57789), (176, 57624), (190, 57519),

Gene: Raphaella_71 Start: 37149, Stop: 37670, Start Num: 101
Candidate Starts for Raphaella_71:
(Start: 101 @37149 has 411 MA's), (125, 37251), (139, 37368),

Gene: Raqqa_67 Start: 35948, Stop: 36466, Start Num: 101
Candidate Starts for Raqqa_67:
(Start: 101 @35948 has 411 MA's), (120, 36029), (139, 36167), (150, 36203), (159, 36254),

Gene: Rattail_55 Start: 33692, Stop: 34201, Start Num: 101
Candidate Starts for Rattail_55:
(Start: 101 @33692 has 411 MA's), (120, 33773), (127, 33806), (133, 33866), (143, 33914), (148, 33926), (158, 33983), (163, 33998), (170, 34019), (179, 34040),

Gene: RazzB_95 Start: 56544, Stop: 55939, Start Num: 101

Candidate Starts for RazzB_95:
(Start: 101 @56544 has 411 MA's), (131, 56382), (159, 56250), (160, 56244), (163, 56238), (170, 56217),

Gene: Red305_85 Start: 55406, Stop: 55789, Start Num: 103
Candidate Starts for Red305_85:
(Start: 103 @55406 has 76 MA's), (118, 55466), (119, 55478), (123, 55499), (130, 55559), (133, 55577), (148, 55637), (170, 55727),

Gene: RedFox_55 Start: 33605, Stop: 34114, Start Num: 101
Candidate Starts for RedFox_55:
(Start: 101 @33605 has 411 MA's), (120, 33686), (127, 33719), (133, 33779), (143, 33827), (148, 33839), (158, 33896), (163, 33911), (170, 33932), (179, 33953),

Gene: Reindeer_69 Start: 45000, Stop: 45446, Start Num: 97
Candidate Starts for Reindeer_69:
(87, 44970), (88, 44976), (Start: 97 @45000 has 26 MA's), (120, 45084), (131, 45165), (156, 45279), (179, 45348),

Gene: Ren19_88 Start: 56144, Stop: 55521, Start Num: 101
Candidate Starts for Ren19_88:
(79, 56201), (Start: 101 @56144 has 411 MA's), (123, 56048), (131, 55982), (137, 55946), (159, 55850), (167, 55829),

Gene: Renna12_54 Start: 33458, Stop: 33970, Start Num: 101
Candidate Starts for Renna12_54:
(Start: 101 @33458 has 411 MA's), (120, 33539), (127, 33572), (133, 33632), (143, 33680), (148, 33692), (158, 33749), (163, 33764), (170, 33785), (179, 33806),

Gene: Rey_73 Start: 45977, Stop: 46417, Start Num: 97
Candidate Starts for Rey_73:
(Start: 97 @45977 has 26 MA's), (131, 46142), (145, 46208), (160, 46280),

Gene: Richie_74 Start: 38954, Stop: 39472, Start Num: 101
Candidate Starts for Richie_74:
(Start: 101 @38954 has 411 MA's), (125, 39056), (139, 39173),

Gene: RickRoss_14 Start: 6690, Stop: 6268, Start Num: 97
Candidate Starts for RickRoss_14:
(Start: 97 @6690 has 26 MA's), (113, 6657), (129, 6543), (158, 6393), (172, 6354),

Gene: Rimmer_98 Start: 59798, Stop: 60238, Start Num: 101
Candidate Starts for Rimmer_98:
(78, 59741), (Start: 101 @59798 has 411 MA's), (124, 59897), (148, 60029), (160, 60095), (179, 60143),

Gene: RiverMonster_100 Start: 60072, Stop: 60512, Start Num: 101
Candidate Starts for RiverMonster_100:
(Start: 101 @60072 has 411 MA's), (124, 60171), (137, 60267), (148, 60303), (160, 60369), (179, 60417),

Gene: Rizwana_72 Start: 51720, Stop: 51190, Start Num: 101
Candidate Starts for Rizwana_72:

(Start: 101 @51720 has 411 MA's), (112, 51696), (129, 51579), (143, 51498), (151, 51474), (159, 51423), (163, 51411), (204, 51243),

Gene: RobsFeet_68 Start: 42128, Stop: 42631, Start Num: 96
Candidate Starts for RobsFeet_68:
(Start: 96 @42128 has 11 MA's), (133, 42302), (143, 42350), (179, 42476),

Gene: Rockwell_63 Start: 40594, Stop: 41097, Start Num: 101
Candidate Starts for Rockwell_63:
(Start: 101 @40594 has 411 MA's), (108, 40609), (143, 40816), (163, 40900), (179, 40942),

Gene: Rooter_57 Start: 31640, Stop: 32134, Start Num: 101
Candidate Starts for Rooter_57:
(Start: 101 @31640 has 411 MA's), (163, 31958),

Gene: Rose5_83 Start: 53936, Stop: 54319, Start Num: 103
Candidate Starts for Rose5_83:
(Start: 103 @53936 has 76 MA's), (123, 54029), (130, 54083), (133, 54101), (148, 54161), (158, 54218),

Gene: RoseMarie_71 Start: 47075, Stop: 47518, Start Num: 97
Candidate Starts for RoseMarie_71:
(84, 47039), (Start: 97 @47075 has 26 MA's), (120, 47159), (131, 47240), (136, 47264), (179, 47423),

Gene: RosiePosie_101 Start: 64170, Stop: 64727, Start Num: 101
Candidate Starts for RosiePosie_101:
(Start: 101 @64170 has 411 MA's), (115, 64206), (120, 64251), (123, 64266), (140, 64380), (143, 64392), (148, 64404), (163, 64476), (170, 64497), (179, 64518),

Gene: Rossetti_86 Start: 55660, Stop: 56046, Start Num: 103
Candidate Starts for Rossetti_86:
(Start: 103 @55660 has 76 MA's), (117, 55711), (119, 55732), (123, 55753), (129, 55792), (130, 55807), (133, 55825), (145, 55879), (146, 55882), (148, 55885), (158, 55942),

Gene: Ruchi_52 Start: 33757, Stop: 34278, Start Num: 101
Candidate Starts for Ruchi_52:
(Start: 101 @33757 has 411 MA's), (120, 33838), (143, 33979), (145, 33985), (181, 34114),

Gene: Rumpelstiltskin_82 Start: 55099, Stop: 55485, Start Num: 103
Candidate Starts for Rumpelstiltskin_82:
(Start: 103 @55099 has 76 MA's), (117, 55150), (119, 55171), (123, 55192), (129, 55231), (130, 55246), (133, 55264), (146, 55321), (148, 55324), (158, 55381),

Gene: SV1_43 Start: 30169, Stop: 30636, Start Num: 101
Candidate Starts for SV1_43:
(Start: 101 @30169 has 411 MA's), (113, 30196), (145, 30397),

Gene: Saints25_97 Start: 58002, Stop: 58442, Start Num: 101
Candidate Starts for Saints25_97:
(47, 57852), (56, 57882), (73, 57930), (80, 57945), (82, 57957), (Start: 101 @58002 has 411 MA's), (124, 58101), (137, 58197), (148, 58233), (160, 58299), (179, 58347),

Gene: Sakai_69 Start: 37702, Stop: 38220, Start Num: 101

Candidate Starts for Sakai_69:
(Start: 101 @37702 has 411 MA's), (125, 37804), (139, 37921),

Gene: Samty_82 Start: 55171, Stop: 55554, Start Num: 103
Candidate Starts for Samty_82:
(Start: 103 @55171 has 76 MA's), (118, 55231), (119, 55243), (123, 55264), (130, 55324), (133, 55342), (148, 55402), (170, 55492),

Gene: Sarge_49 Start: 28989, Stop: 29513, Start Num: 101
Candidate Starts for Sarge_49:
(Start: 101 @28989 has 411 MA's), (139, 29208),

Gene: Sarshaun_86 Start: 55564, Stop: 55950, Start Num: 103
Candidate Starts for Sarshaun_86:
(Start: 103 @55564 has 76 MA's), (117, 55615), (119, 55636), (123, 55657), (129, 55696), (130, 55711), (133, 55729), (146, 55786), (148, 55789), (158, 55846),

Gene: Sashimi_69 Start: 38075, Stop: 38557, Start Num: 106
Candidate Starts for Sashimi_69:
(Start: 106 @38075 has 8 MA's), (117, 38120), (120, 38147), (136, 38249), (148, 38297), (164, 38375),

Gene: Sassay_95 Start: 58223, Stop: 58663, Start Num: 101
Candidate Starts for Sassay_95:
(Start: 101 @58223 has 411 MA's), (124, 58322), (137, 58418), (148, 58454), (160, 58520), (179, 58568),

Gene: Satrap_72 Start: 38229, Stop: 38750, Start Num: 101
Candidate Starts for Satrap_72:
(85, 38190), (Start: 101 @38229 has 411 MA's), (139, 38448),

Gene: Savannah_63 Start: 40621, Stop: 41124, Start Num: 101
Candidate Starts for Savannah_63:
(Start: 101 @40621 has 411 MA's), (108, 40636), (143, 40843), (163, 40927), (179, 40969),

Gene: Scavito_102 Start: 64163, Stop: 64732, Start Num: 101
Candidate Starts for Scavito_102:
(Start: 101 @64163 has 411 MA's), (120, 64244), (130, 64319), (137, 64361), (143, 64385), (145, 64391), (148, 64397), (163, 64469), (170, 64490), (179, 64511),

Gene: Schlegelian_46 Start: 31205, Stop: 31678, Start Num: 101
Candidate Starts for Schlegelian_46:
(Start: 101 @31205 has 411 MA's), (143, 31427), (158, 31496),

Gene: Schmidt_48 Start: 32790, Stop: 33275, Start Num: 101
Candidate Starts for Schmidt_48:
(Start: 101 @32790 has 411 MA's), (113, 32817), (129, 32931), (131, 32952), (158, 33081), (163, 33096), (179, 33138),

Gene: Scumberland_66 Start: 40816, Stop: 41319, Start Num: 101
Candidate Starts for Scumberland_66:
(Start: 101 @40816 has 411 MA's), (108, 40831), (143, 41038), (163, 41122), (179, 41164),

Gene: Seahorse_76 Start: 40120, Stop: 40581, Start Num: 101

Candidate Starts for Seahorse_76:
(Start: 101 @40120 has 411 MA's), (124, 40219), (135, 40312), (140, 40342), (182, 40489),

Gene: Selwyn23_65 Start: 40733, Stop: 41236, Start Num: 101
Candidate Starts for Selwyn23_65:
(Start: 101 @40733 has 411 MA's), (108, 40748), (143, 40955), (163, 41039), (179, 41081),

Gene: Shade_37 Start: 30810, Stop: 31367, Start Num: 101
Candidate Starts for Shade_37:
(68, 30723), (Start: 101 @30810 has 411 MA's), (112, 30834), (141, 31023), (143, 31032), (170, 31137), (175, 31146), (179, 31158), (197, 31251),

Gene: ShamWow_100 Start: 60193, Stop: 60633, Start Num: 101
Candidate Starts for ShamWow_100:
(Start: 101 @60193 has 411 MA's), (124, 60292), (137, 60388), (148, 60424), (160, 60490), (179, 60538),

Gene: Shen_52 Start: 32901, Stop: 33380, Start Num: 101
Candidate Starts for Shen_52:
(Start: 101 @32901 has 411 MA's), (120, 32982), (133, 33075), (143, 33123), (145, 33129), (163, 33207), (181, 33258),

Gene: Sheng711_84 Start: 54126, Stop: 54533, Start Num: 103
Candidate Starts for Sheng711_84:
(Start: 103 @54126 has 76 MA's), (119, 54198), (123, 54219), (129, 54258), (130, 54273), (136, 54303), (146, 54348), (148, 54351), (184, 54492),

Gene: ShereKhan_98 Start: 60632, Stop: 61072, Start Num: 101
Candidate Starts for ShereKhan_98:
(Start: 101 @60632 has 411 MA's), (124, 60731), (137, 60827), (148, 60863), (160, 60929), (179, 60977),

Gene: Shotgun_64 Start: 40497, Stop: 41003, Start Num: 101
Candidate Starts for Shotgun_64:
(Start: 101 @40497 has 411 MA's), (108, 40512), (143, 40719), (163, 40803), (179, 40845),

Gene: Shoya_55 Start: 31189, Stop: 31710, Start Num: 101
Candidate Starts for Shoya_55:
(Start: 101 @31189 has 411 MA's), (121, 31273), (123, 31285), (139, 31408),

Gene: Shrubaron_68 Start: 41723, Stop: 42226, Start Num: 96
Candidate Starts for Shrubaron_68:
(Start: 96 @41723 has 11 MA's), (143, 41945), (179, 42071),

Gene: Shukran_69 Start: 37006, Stop: 37530, Start Num: 101
Candidate Starts for Shukran_69:
(Start: 101 @37006 has 411 MA's), (139, 37225),

Gene: Sicarius2_38 Start: 30424, Stop: 30954, Start Num: 101
Candidate Starts for Sicarius2_38:
(Start: 101 @30424 has 411 MA's), (131, 30586), (133, 30598), (143, 30646), (150, 30667),

Gene: SilentRX_70 Start: 50764, Stop: 50189, Start Num: 101

Candidate Starts for SilentRX_70:
(Start: 101 @50764 has 411 MA's), (120, 50683), (136, 50578), (137, 50566), (143, 50542), (159, 50470),

Gene: Silverleaf_82 Start: 53392, Stop: 53775, Start Num: 103
Candidate Starts for Silverleaf_82:
(Start: 103 @53392 has 76 MA's), (123, 53485), (130, 53539), (133, 53557), (148, 53617), (158, 53674),

Gene: Simpliphy_99 Start: 59643, Stop: 60083, Start Num: 101
Candidate Starts for Simpliphy_99:
(Start: 101 @59643 has 411 MA's), (124, 59742), (137, 59838), (148, 59874), (160, 59940), (179, 59988),

Gene: SirDuracell_100 Start: 59010, Stop: 59450, Start Num: 101
Candidate Starts for SirDuracell_100:
(78, 58953), (Start: 101 @59010 has 411 MA's), (124, 59109), (148, 59241), (160, 59307), (179, 59355),

Gene: SirFrank_64 Start: 40787, Stop: 41287, Start Num: 96
Candidate Starts for SirFrank_64:
(Start: 96 @40787 has 11 MA's), (143, 41009), (151, 41033), (163, 41093), (179, 41135),

Gene: Skinny_69 Start: 44296, Stop: 44742, Start Num: 97
Candidate Starts for Skinny_69:
(84, 44260), (Start: 97 @44296 has 26 MA's), (120, 44380), (131, 44461), (136, 44485), (179, 44644),

Gene: Skitty_54 Start: 33126, Stop: 33626, Start Num: 100
Candidate Starts for Skitty_54:
(Start: 100 @33126 has 8 MA's), (133, 33300), (170, 33456), (179, 33477),

Gene: Skugga_64 Start: 41045, Stop: 41545, Start Num: 101
Candidate Starts for Skugga_64:
(Start: 101 @41045 has 411 MA's), (143, 41267), (163, 41351),

Gene: SlimJimmy_66 Start: 43851, Stop: 44297, Start Num: 97
Candidate Starts for SlimJimmy_66:
(84, 43815), (Start: 97 @43851 has 26 MA's), (120, 43935), (131, 44016), (136, 44040), (179, 44199),

Gene: Smarties_74 Start: 42439, Stop: 42945, Start Num: 101
Candidate Starts for Smarties_74:
(64, 42349), (81, 42394), (Start: 97 @42436 has 26 MA's), (Start: 101 @42439 has 411 MA's), (133, 42613), (143, 42661), (145, 42667), (163, 42745), (179, 42787),

Gene: Smoothie_127 Start: 71932, Stop: 72441, Start Num: 101
Candidate Starts for Smoothie_127:
(Start: 101 @71932 has 411 MA's), (109, 71947), (112, 71956), (143, 72154), (179, 72280), (186, 72331), (194, 72391),

Gene: Snenia_83 Start: 55407, Stop: 55790, Start Num: 103
Candidate Starts for Snenia_83:
(Start: 103 @55407 has 76 MA's), (118, 55467), (119, 55479), (123, 55500), (130, 55560), (133, 55578), (148, 55638), (170, 55728),

Gene: SoJo_44 Start: 31978, Stop: 32505, Start Num: 101
Candidate Starts for SoJo_44:
(23, 31687), (26, 31702), (38, 31795), (59, 31876), (63, 31885), (Start: 101 @31978 has 411 MA's), (132, 32146), (145, 32206), (149, 32215), (179, 32323), (199, 32485),

Gene: SoJulia_87 Start: 56632, Stop: 57018, Start Num: 103
Candidate Starts for SoJulia_87:
(Start: 103 @56632 has 76 MA's), (117, 56683), (119, 56704), (123, 56725), (129, 56764), (130, 56779), (133, 56797), (146, 56854), (148, 56857), (158, 56914),

Gene: Soap141_85 Start: 55564, Stop: 55950, Start Num: 103
Candidate Starts for Soap141_85:
(Start: 103 @55564 has 76 MA's), (117, 55615), (119, 55636), (123, 55657), (129, 55696), (130, 55711), (133, 55729), (146, 55786), (148, 55789), (158, 55846),

Gene: SonDevVon_78 Start: 38751, Stop: 39269, Start Num: 101
Candidate Starts for SonDevVon_78:
(85, 38712), (Start: 101 @38751 has 411 MA's), (139, 38970),

Gene: Sonali_48 Start: 38621, Stop: 39217, Start Num: 101
Candidate Starts for Sonali_48:
(Start: 101 @38621 has 411 MA's), (136, 38807), (146, 38852), (163, 38927),

Gene: Sonny_37 Start: 30840, Stop: 31397, Start Num: 101
Candidate Starts for Sonny_37:
(68, 30753), (Start: 101 @30840 has 411 MA's), (112, 30864), (141, 31053), (143, 31062), (170, 31167), (175, 31176), (179, 31188), (197, 31281),

Gene: Soos_82 Start: 55154, Stop: 55576, Start Num: 101
Candidate Starts for Soos_82:
(34, 54929), (40, 54968), (60, 55049), (95, 55151), (Start: 101 @55154 has 411 MA's), (121, 55238), (125, 55256), (159, 55448), (160, 55454),

Gene: SophKB_97 Start: 58991, Stop: 59434, Start Num: 101
Candidate Starts for SophKB_97:
(Start: 101 @58991 has 411 MA's), (120, 59072), (124, 59090), (148, 59222), (160, 59288), (179, 59336), (188, 59423),

Gene: Sotrice96_101 Start: 59897, Stop: 60337, Start Num: 101
Candidate Starts for Sotrice96_101:
(Start: 101 @59897 has 411 MA's), (124, 59996), (148, 60128), (160, 60194), (179, 60242),

Gene: Spartan_54 Start: 40548, Stop: 41030, Start Num: 101
Candidate Starts for Spartan_54:
(Start: 101 @40548 has 411 MA's), (114, 40578), (124, 40647), (138, 40746), (145, 40773), (148, 40779), (165, 40842), (169, 40857), (173, 40863), (174, 40869),

Gene: SpeedDemon_850 Start: 59020, Stop: 58460, Start Num: 101
Candidate Starts for SpeedDemon_850:
(Start: 101 @59020 has 411 MA's), (163, 58687), (183, 58621),

Gene: SpicyFrank_74 Start: 38376, Stop: 38855, Start Num: 106

Candidate Starts for SpicyFrank_74:
(Start: 106 @38376 has 8 MA's), (152, 38619), (155, 38634), (159, 38670), (161, 38676),

Gene: Splinter_54 Start: 36171, Stop: 36677, Start Num: 101
Candidate Starts for Splinter_54:
(Start: 101 @36171 has 411 MA's), (131, 36333), (148, 36405), (163, 36477), (179, 36519),

Gene: Sporco_74 Start: 39484, Stop: 40005, Start Num: 101
Candidate Starts for Sporco_74:
(Start: 101 @39484 has 411 MA's), (125, 39586), (139, 39703),

Gene: Stank_102 Start: 59671, Stop: 60111, Start Num: 101
Candidate Starts for Stank_102:
(35, 59470), (36, 59473), (Start: 41 @59500 has 1 MA's), (42, 59503), (51, 59545), (71, 59599), (Start: 101 @59671 has 411 MA's), (124, 59770), (148, 59902), (160, 59968), (179, 60016),

Gene: Stark_101 Start: 59955, Stop: 60395, Start Num: 101
Candidate Starts for Stark_101:
(Start: 101 @59955 has 411 MA's), (124, 60054), (137, 60150), (148, 60186), (160, 60252), (179, 60300),

Gene: StellaBean_99 Start: 60033, Stop: 60473, Start Num: 101
Candidate Starts for StellaBean_99:
(Start: 101 @60033 has 411 MA's), (124, 60132), (148, 60264), (160, 60330), (179, 60378),

Gene: StevieBAY_37 Start: 30898, Stop: 31446, Start Num: 101
Candidate Starts for StevieBAY_37:
(Start: 101 @30898 has 411 MA's), (112, 30922), (143, 31120), (175, 31234), (179, 31246), (197, 31324),

Gene: Stillion_89 Start: 56519, Stop: 56941, Start Num: 101
Candidate Starts for Stillion_89:
(34, 56294), (40, 56333), (60, 56414), (95, 56516), (Start: 101 @56519 has 411 MA's), (121, 56603), (159, 56813), (160, 56819),

Gene: Sting_85 Start: 55593, Stop: 56015, Start Num: 101
Candidate Starts for Sting_85:
(34, 55368), (40, 55407), (60, 55488), (95, 55590), (Start: 101 @55593 has 411 MA's), (121, 55677), (125, 55695), (159, 55887), (160, 55893),

Gene: StolenFromERC_102 Start: 59596, Stop: 60036, Start Num: 101
Candidate Starts for StolenFromERC_102:
(35, 59395), (36, 59398), (Start: 41 @59425 has 1 MA's), (42, 59428), (51, 59470), (71, 59524), (Start: 101 @59596 has 411 MA's), (124, 59695), (148, 59827), (160, 59893), (179, 59941),

Gene: StormChicken_101 Start: 59962, Stop: 60402, Start Num: 101
Candidate Starts for StormChicken_101:
(71, 59890), (Start: 101 @59962 has 411 MA's), (124, 60061), (137, 60157), (148, 60193), (160, 60259), (179, 60307),

Gene: StuartMinion_46 Start: 30321, Stop: 30833, Start Num: 101
Candidate Starts for StuartMinion_46:

(Start: 101 @30321 has 411 MA's), (117, 30375), (127, 30435), (130, 30477), (133, 30495), (163, 30627), (170, 30648),

Gene: Sunfish_74 Start: 46316, Stop: 45759, Start Num: 101
Candidate Starts for Sunfish_74:
(Start: 101 @46316 has 411 MA's), (112, 46292), (117, 46262), (120, 46235), (170, 45989), (179, 45968), (192, 45893), (206, 45806),

Gene: Sunny_ Start: 42733, Stop: 43239, Start Num: 101
Candidate Starts for Sunny_:
(Start: 101 @42733 has 411 MA's), (133, 42907), (137, 42931), (141, 42946), (150, 42976), (163, 43039), (179, 43081),

Gene: SunnyJune_46 Start: 33142, Stop: 33582, Start Num: 106
Candidate Starts for SunnyJune_46:
(Start: 106 @33142 has 8 MA's), (121, 33217),

Gene: Sunshine23_50 Start: 38506, Stop: 39102, Start Num: 101
Candidate Starts for Sunshine23_50:
(Start: 101 @38506 has 411 MA's), (136, 38692), (146, 38737), (163, 38812),

Gene: Sweetums_43 Start: 26566, Stop: 26072, Start Num: 101
Candidate Starts for Sweetums_43:
(Start: 101 @26566 has 411 MA's), (179, 26218),

Gene: TBrady12_103 Start: 59111, Stop: 59551, Start Num: 101
Candidate Starts for TBrady12_103:
(35, 58910), (36, 58913), (Start: 41 @58940 has 1 MA's), (42, 58943), (51, 58985), (71, 59039), (Start: 101 @59111 has 411 MA's), (124, 59210), (137, 59306), (148, 59342), (160, 59408), (179, 59456),

Gene: TZGordon_56 Start: 35517, Stop: 36008, Start Num: 101
Candidate Starts for TZGordon_56:
(Start: 101 @35517 has 411 MA's), (131, 35679), (148, 35751), (156, 35796), (163, 35823),

Gene: TaeYoung_37 Start: 30823, Stop: 31371, Start Num: 101
Candidate Starts for TaeYoung_37:
(68, 30736), (Start: 101 @30823 has 411 MA's), (112, 30847), (133, 30997), (136, 31009), (143, 31045), (170, 31150), (179, 31171), (197, 31255),

Gene: Tank_72 Start: 51819, Stop: 51199, Start Num: 101
Candidate Starts for Tank_72:
(Start: 101 @51819 has 411 MA's), (112, 51795), (120, 51738), (143, 51597), (164, 51513),

Gene: Tarkin_99 Start: 60497, Stop: 60937, Start Num: 101
Candidate Starts for Tarkin_99:
(Start: 101 @60497 has 411 MA's), (124, 60596), (137, 60692), (148, 60728), (160, 60794), (179, 60842),

Gene: TaylorSipht_54 Start: 34187, Stop: 34702, Start Num: 101
Candidate Starts for TaylorSipht_54:
(Start: 101 @34187 has 411 MA's), (120, 34268), (145, 34415), (148, 34421), (163, 34493), (170, 34514), (181, 34544),

Gene: TeamEdward_100 Start: 60159, Stop: 60599, Start Num: 101
Candidate Starts for TeamEdward_100:
(Start: 101 @60159 has 411 MA's), (124, 60258), (137, 60354), (148, 60390), (160, 60456), (179, 60504),

Gene: Teamocil_68 Start: 40761, Stop: 41264, Start Num: 96
Candidate Starts for Teamocil_68:
(Start: 96 @40761 has 11 MA's), (143, 40983), (163, 41067),

Gene: TeardropMSU_96 Start: 58978, Stop: 59418, Start Num: 101
Candidate Starts for TeardropMSU_96:
(Start: 101 @58978 has 411 MA's), (124, 59077), (148, 59209), (160, 59275), (179, 59323),

Gene: Teaspoon_101 Start: 59854, Stop: 60294, Start Num: 101
Candidate Starts for Teaspoon_101:
(Start: 101 @59854 has 411 MA's), (124, 59953), (137, 60049), (148, 60085), (160, 60151), (179, 60199),

Gene: Teng_47 Start: 26473, Stop: 25979, Start Num: 101
Candidate Starts for Teng_47:
(Start: 101 @26473 has 411 MA's), (131, 26311), (179, 26125),

Gene: Terij_60 Start: 39794, Stop: 40297, Start Num: 101
Candidate Starts for Terij_60:
(Start: 101 @39794 has 411 MA's), (143, 40016), (163, 40100), (179, 40142),

Gene: Terminus_103 Start: 60897, Stop: 61337, Start Num: 101
Candidate Starts for Terminus_103:
(Start: 101 @60897 has 411 MA's), (124, 60996), (137, 61092), (148, 61128), (160, 61194), (179, 61242),

Gene: ThayneTheZag_76 Start: 38042, Stop: 38506, Start Num: 101
Candidate Starts for ThayneTheZag_76:
(Start: 101 @38042 has 411 MA's), (124, 38141), (135, 38234), (182, 38411),

Gene: Thimble_102 Start: 58861, Stop: 59301, Start Num: 101
Candidate Starts for Thimble_102:
(35, 58660), (36, 58663), (Start: 41 @58690 has 1 MA's), (42, 58693), (51, 58735), (71, 58789), (Start: 101 @58861 has 411 MA's), (124, 58960), (137, 59056), (148, 59092), (160, 59158), (179, 59206),

Gene: Thresher_102 Start: 60735, Stop: 61175, Start Num: 101
Candidate Starts for Thresher_102:
(Start: 101 @60735 has 411 MA's), (124, 60834), (137, 60930), (148, 60966), (160, 61032), (179, 61080),

Gene: Tiff81_67 Start: 36649, Stop: 37155, Start Num: 101
Candidate Starts for Tiff81_67:
(Start: 101 @36649 has 411 MA's), (120, 36730), (139, 36868),

Gene: Timinator_37 Start: 30897, Stop: 31436, Start Num: 101
Candidate Starts for Timinator_37:
(Start: 101 @30897 has 411 MA's), (112, 30921), (143, 31119), (179, 31245), (200, 31344),

Gene: TinaLin_53 Start: 34968, Stop: 35471, Start Num: 101
Candidate Starts for TinaLin_53:
(Start: 101 @34968 has 411 MA's), (131, 35130), (156, 35247), (158, 35259), (159, 35262), (163, 35274),

Gene: Toad24_55 Start: 35041, Stop: 35520, Start Num: 101
Candidate Starts for Toad24_55:
(Start: 101 @35041 has 411 MA's), (120, 35122), (133, 35215), (143, 35263), (145, 35269), (163, 35347), (181, 35398),

Gene: ToastyFinz_43 Start: 32811, Stop: 33314, Start Num: 101
Candidate Starts for ToastyFinz_43:
(5, 32205), (6, 32223), (13, 32376), (14, 32385), (23, 32517), (26, 32532), (38, 32625), (59, 32706), (63, 32715), (Start: 101 @32811 has 411 MA's), (117, 32865), (120, 32892), (133, 32985), (145, 33039), (160, 33108),

Gene: Tomaszewski_95 Start: 59435, Stop: 59875, Start Num: 101
Candidate Starts for Tomaszewski_95:
(78, 59378), (Start: 101 @59435 has 411 MA's), (124, 59534), (137, 59630), (148, 59666), (160, 59732), (179, 59780),

Gene: Toniann_126 Start: 71461, Stop: 71970, Start Num: 101
Candidate Starts for Toniann_126:
(Start: 101 @71461 has 411 MA's), (109, 71476), (112, 71485), (143, 71683), (179, 71809), (186, 71860), (194, 71920),

Gene: Tophat_102 Start: 64352, Stop: 64921, Start Num: 101
Candidate Starts for Tophat_102:
(Start: 101 @64352 has 411 MA's), (120, 64433), (130, 64508), (137, 64550), (143, 64574), (145, 64580), (148, 64586), (163, 64658), (170, 64679), (179, 64700),

Gene: Toto_98 Start: 60193, Stop: 60633, Start Num: 101
Candidate Starts for Toto_98:
(Start: 101 @60193 has 411 MA's), (124, 60292), (137, 60388), (148, 60424), (160, 60490), (179, 60538),

Gene: Tourach_84 Start: 55589, Stop: 55975, Start Num: 103
Candidate Starts for Tourach_84:
(Start: 103 @55589 has 76 MA's), (117, 55640), (119, 55661), (123, 55682), (129, 55721), (130, 55736), (133, 55754), (146, 55811), (148, 55814), (158, 55871), (170, 55907),

Gene: Towmatter_74 Start: 52770, Stop: 52270, Start Num: 101
Candidate Starts for Towmatter_74:
(Start: 101 @52770 has 411 MA's), (120, 52692),

Gene: TpudiCK_69 Start: 43866, Stop: 44312, Start Num: 97
Candidate Starts for TpudiCK_69:
(84, 43830), (Start: 97 @43866 has 26 MA's), (120, 43950), (131, 44031), (136, 44055), (179, 44214),

Gene: Traaww1_96 Start: 58700, Stop: 59140, Start Num: 101
Candidate Starts for Traaww1_96:
(35, 58499), (36, 58502), (Start: 41 @58529 has 1 MA's), (42, 58532), (51, 58574), (71, 58628), (Start: 101 @58700 has 411 MA's), (120, 58781), (124, 58799), (148, 58931), (160, 58997), (179, 59045),

Gene: TriFive_85 Start: 55519, Stop: 55902, Start Num: 103
Candidate Starts for TriFive_85:
(Start: 103 @55519 has 76 MA's), (118, 55579), (119, 55591), (123, 55612), (130, 55672), (133, 55690), (148, 55750), (170, 55840),

Gene: TripleJ_56 Start: 34802, Stop: 35257, Start Num: 101
Candidate Starts for TripleJ_56:
(90, 34775), (Start: 101 @34802 has 411 MA's), (120, 34883), (133, 34976), (136, 34988), (145, 35030), (159, 35096),

Gene: Tubberson_44 Start: 31979, Stop: 32506, Start Num: 101
Candidate Starts for Tubberson_44:
(23, 31688), (26, 31703), (38, 31796), (59, 31877), (63, 31886), (Start: 101 @31979 has 411 MA's), (132, 32147), (145, 32207), (149, 32216), (179, 32324), (199, 32486),

Gene: Tuco_101 Start: 61058, Stop: 61498, Start Num: 101
Candidate Starts for Tuco_101:
(Start: 101 @61058 has 411 MA's), (124, 61157), (148, 61289), (160, 61355), (179, 61403),

Gene: TyDawg_67 Start: 43867, Stop: 44313, Start Num: 97
Candidate Starts for TyDawg_67:
(84, 43831), (Start: 97 @43867 has 26 MA's), (120, 43951), (131, 44032), (136, 44056), (179, 44215),

Gene: Tyrumbra_63 Start: 41408, Stop: 41914, Start Num: 96
Candidate Starts for Tyrumbra_63:
(15, 41000), (17, 41045), (Start: 96 @41408 has 11 MA's), (133, 41582), (143, 41630), (179, 41756),

Gene: Tyson_83 Start: 53862, Stop: 54245, Start Num: 103
Candidate Starts for Tyson_83:
(Start: 103 @53862 has 76 MA's), (123, 53955), (130, 54009), (133, 54027), (148, 54087), (158, 54144),

Gene: UPIE_81 Start: 53458, Stop: 53841, Start Num: 103
Candidate Starts for UPIE_81:
(Start: 103 @53458 has 76 MA's), (123, 53551), (130, 53605), (133, 53623), (148, 53683), (158, 53740),

Gene: Ukulele_95 Start: 59455, Stop: 59895, Start Num: 101
Candidate Starts for Ukulele_95:
(Start: 101 @59455 has 411 MA's), (124, 59554), (137, 59650), (148, 59686), (160, 59752), (179, 59800),

Gene: Underpass_77 Start: 50342, Stop: 50728, Start Num: 103
Candidate Starts for Underpass_77:
(Start: 103 @50342 has 76 MA's), (117, 50393), (119, 50414), (123, 50435), (129, 50474), (130, 50489), (133, 50507), (146, 50564), (148, 50567), (158, 50624),

Gene: ValentiniPuff_105 Start: 59002, Stop: 59508, Start Num: 101
Candidate Starts for ValentiniPuff_105:
(75, 58930), (Start: 101 @59002 has 411 MA's), (Start: 106 @59014 has 8 MA's), (108, 59017), (117, 59056), (127, 59116), (131, 59164), (133, 59176), (143, 59224), (191, 59398),

Gene: VanLee_42 Start: 32268, Stop: 32756, Start Num: 101
Candidate Starts for VanLee_42:
(Start: 101 @32268 has 411 MA's), (111, 32286), (120, 32349), (130, 32424), (133, 32442), (146, 32499), (193, 32712),

Gene: Vendetta_54 Start: 36171, Stop: 36677, Start Num: 101
Candidate Starts for Vendetta_54:
(Start: 101 @36171 has 411 MA's), (131, 36333), (148, 36405), (163, 36477), (179, 36519),

Gene: Vetrix_84 Start: 55168, Stop: 55554, Start Num: 103
Candidate Starts for Vetrix_84:
(Start: 103 @55168 has 76 MA's), (117, 55219), (119, 55240), (123, 55261), (129, 55300), (130, 55315), (133, 55333), (146, 55390), (148, 55393), (158, 55450),

Gene: Vibaki_38 Start: 32552, Stop: 33103, Start Num: 101
Candidate Starts for Vibaki_38:
(Start: 101 @32552 has 411 MA's), (112, 32576), (131, 32714), (143, 32774), (148, 32786),

Gene: Violeta_47 Start: 28645, Stop: 29136, Start Num: 101
Candidate Starts for Violeta_47:
(Start: 101 @28645 has 411 MA's), (143, 28867), (150, 28888), (163, 28951),

Gene: Vitus_39 Start: 31606, Stop: 32157, Start Num: 101
Candidate Starts for Vitus_39:
(Start: 101 @31606 has 411 MA's), (115, 31642), (131, 31768), (136, 31792), (143, 31828), (158, 31897), (170, 31933),

Gene: Vondra_44 Start: 30507, Stop: 30950, Start Num: 101
Candidate Starts for Vondra_44:
(Start: 101 @30507 has 411 MA's), (158, 30798),

Gene: Vopal_73 Start: 40295, Stop: 40768, Start Num: 106
Candidate Starts for Vopal_73:
(Start: 106 @40295 has 8 MA's), (117, 40340), (141, 40496),

Gene: Vulpecula_52 Start: 33417, Stop: 33938, Start Num: 101
Candidate Starts for Vulpecula_52:
(Start: 101 @33417 has 411 MA's), (120, 33498), (143, 33639), (145, 33645), (181, 33774),

Gene: Waltz_14 Start: 9797, Stop: 10513, Start Num: 101
Candidate Starts for Waltz_14:
(Start: 101 @9797 has 411 MA's), (120, 9878), (133, 9971), (137, 9995), (143, 10019), (179, 10145), (207, 10352),

Gene: Wamburgrxpress_82 Start: 53897, Stop: 54280, Start Num: 103
Candidate Starts for Wamburgrxpress_82:
(Start: 103 @53897 has 76 MA's), (123, 53990), (130, 54044), (133, 54062), (148, 54122), (158, 54179),

Gene: Warren_45 Start: 28593, Stop: 29075, Start Num: 101
Candidate Starts for Warren_45:
(Start: 101 @28593 has 411 MA's), (143, 28815), (150, 28836), (163, 28899), (179, 28941),

Gene: Westrich_63 Start: 35225, Stop: 35704, Start Num: 101
Candidate Starts for Westrich_63:
(Start: 101 @35225 has 411 MA's), (120, 35306), (133, 35399), (143, 35447), (145, 35453), (163, 35531), (181, 35582),

Gene: WheeHeim_13 Start: 6628, Stop: 6206, Start Num: 97
Candidate Starts for WheeHeim_13:
(Start: 97 @6628 has 26 MA's), (113, 6595), (129, 6481), (137, 6424), (158, 6331), (172, 6292),

Gene: Wheelbite_14 Start: 9719, Stop: 10477, Start Num: 101
Candidate Starts for Wheelbite_14:
(Start: 101 @9719 has 411 MA's), (141, 9932), (143, 9941), (179, 10067), (205, 10280),

Gene: Whirlwind_84 Start: 55415, Stop: 55798, Start Num: 103
Candidate Starts for Whirlwind_84:
(Start: 103 @55415 has 76 MA's), (118, 55475), (119, 55487), (123, 55508), (130, 55568), (133, 55586), (148, 55646), (170, 55736),

Gene: Wiggin_102 Start: 59101, Stop: 59541, Start Num: 101
Candidate Starts for Wiggin_102:
(35, 58900), (36, 58903), (Start: 41 @58930 has 1 MA's), (42, 58933), (51, 58975), (71, 59029), (Start: 101 @59101 has 411 MA's), (124, 59200), (148, 59332), (160, 59398), (179, 59446),

Gene: Wigglewiggle_84 Start: 55113, Stop: 55499, Start Num: 103
Candidate Starts for Wigglewiggle_84:
(Start: 103 @55113 has 76 MA's), (117, 55164), (119, 55185), (123, 55206), (129, 55245), (130, 55260), (133, 55278), (146, 55335), (148, 55338), (158, 55395),

Gene: Wilca_64 Start: 43759, Stop: 43046, Start Num: 101
Candidate Starts for Wilca_64:
(Start: 101 @43759 has 411 MA's), (Start: 106 @43747 has 8 MA's), (115, 43723), (127, 43642), (131, 43594), (138, 43555), (159, 43456), (166, 43435),

Gene: Wildcat_78 Start: 48987, Stop: 49376, Start Num: 100
Candidate Starts for Wildcat_78:
(Start: 100 @48987 has 8 MA's), (124, 49083), (130, 49134), (133, 49152), (145, 49206), (159, 49272), (179, 49326),

Gene: Wilde_74 Start: 52160, Stop: 51552, Start Num: 101
Candidate Starts for Wilde_74:
(Start: 101 @52160 has 411 MA's), (112, 52136), (120, 52079), (143, 51938), (164, 51854),

Gene: Wilder_86 Start: 55257, Stop: 55643, Start Num: 103
Candidate Starts for Wilder_86:
(Start: 103 @55257 has 76 MA's), (117, 55308), (119, 55329), (123, 55350), (129, 55389), (130, 55404), (133, 55422), (146, 55479), (148, 55482), (158, 55539),

Gene: WileyE_58 Start: 34174, Stop: 34692, Start Num: 101
Candidate Starts for WileyE_58:
(Start: 101 @34174 has 411 MA's), (120, 34255), (143, 34396), (145, 34402), (158, 34465), (181, 34531),

Gene: Willez_95 Start: 58223, Stop: 58663, Start Num: 101

Candidate Starts for Willez_95:
(Start: 101 @58223 has 411 MA's), (124, 58322), (137, 58418), (148, 58454), (160, 58520), (179, 58568),

Gene: WilliamBoone_125 Start: 69149, Stop: 69661, Start Num: 101
Candidate Starts for WilliamBoone_125:
(Start: 101 @69149 has 411 MA's), (111, 69167), (115, 69185), (137, 69347), (143, 69371), (186, 69545), (194, 69605),

Gene: Winchester007_61 Start: 34650, Stop: 35144, Start Num: 101
Candidate Starts for Winchester007_61:
(Start: 101 @34650 has 411 MA's), (143, 34872), (150, 34893), (179, 34998),

Gene: Windest_74 Start: 36509, Stop: 37030, Start Num: 101
Candidate Starts for Windest_74:
(Start: 101 @36509 has 411 MA's), (125, 36611), (139, 36728),

Gene: Winky_85 Start: 55471, Stop: 55857, Start Num: 103
Candidate Starts for Winky_85:
(Start: 103 @55471 has 76 MA's), (117, 55522), (119, 55543), (123, 55564), (129, 55603), (130, 55618), (133, 55636), (146, 55693), (148, 55696), (158, 55753),

Gene: Wrackline_57 Start: 30502, Stop: 29993, Start Num: 101
Candidate Starts for Wrackline_57:
(Start: 101 @30502 has 411 MA's), (112, 30478), (113, 30475), (120, 30421), (133, 30328), (143, 30280), (159, 30208), (163, 30196),

Gene: Wyatt2_83 Start: 53860, Stop: 54243, Start Num: 103
Candidate Starts for Wyatt2_83:
(Start: 103 @53860 has 76 MA's), (123, 53953), (130, 54007), (133, 54025), (148, 54085), (158, 54142),

Gene: Wyborn_38 Start: 31062, Stop: 31586, Start Num: 101
Candidate Starts for Wyborn_38:
(Start: 101 @31062 has 411 MA's), (131, 31224), (133, 31236), (143, 31284), (150, 31305), (180, 31413),

Gene: Xandras_99 Start: 58924, Stop: 59364, Start Num: 101
Candidate Starts for Xandras_99:
(35, 58723), (36, 58726), (Start: 41 @58753 has 1 MA's), (42, 58756), (51, 58798), (71, 58852), (Start: 101 @58924 has 411 MA's), (120, 59005), (124, 59023), (148, 59155), (160, 59221), (179, 59269),

Gene: YassJohnny_97 Start: 58244, Stop: 58684, Start Num: 101
Candidate Starts for YassJohnny_97:
(35, 58043), (36, 58046), (Start: 41 @58073 has 1 MA's), (42, 58076), (51, 58118), (71, 58172), (Start: 101 @58244 has 411 MA's), (120, 58325), (124, 58343), (148, 58475), (160, 58541), (179, 58589),

Gene: Yeti_66 Start: 40535, Stop: 41041, Start Num: 101
Candidate Starts for Yeti_66:
(Start: 101 @40535 has 411 MA's), (108, 40550), (143, 40757), (163, 40841), (179, 40883),

Gene: YoungHarleezy_71 Start: 37838, Stop: 38341, Start Num: 101
Candidate Starts for YoungHarleezy_71:

(Start: 101 @37838 has 411 MA's), (120, 37919), (139, 38057),

Gene: Youngblood_103 Start: 60394, Stop: 60834, Start Num: 101
Candidate Starts for Youngblood_103:
(35, 60193), (36, 60196), (Start: 41 @60223 has 1 MA's), (42, 60226), (51, 60268), (71, 60322), (Start: 101 @60394 has 411 MA's), (120, 60475), (124, 60493), (137, 60589), (148, 60625), (160, 60691), (179, 60739),

Gene: Yvonnetastic_132 Start: 74503, Stop: 75024, Start Num: 101
Candidate Starts for Yvonnetastic_132:
(Start: 101 @74503 has 411 MA's), (107, 74515), (112, 74527), (117, 74557), (123, 74599), (124, 74602), (145, 74731), (194, 74968),

Gene: Zakai_86 Start: 55577, Stop: 55963, Start Num: 103
Candidate Starts for Zakai_86:
(Start: 103 @55577 has 76 MA's), (117, 55628), (119, 55649), (123, 55670), (129, 55709), (130, 55724), (133, 55742), (146, 55799), (148, 55802), (158, 55859),

Gene: Zapato_64 Start: 41387, Stop: 41893, Start Num: 96
Candidate Starts for Zapato_64:
(Start: 96 @41387 has 11 MA's), (143, 41609), (163, 41693), (179, 41735),

Gene: Zaria_83 Start: 53312, Stop: 53695, Start Num: 103
Candidate Starts for Zaria_83:
(Start: 103 @53312 has 76 MA's), (123, 53405), (130, 53459), (133, 53477), (148, 53537), (158, 53594),

Gene: Zartrosa_37 Start: 30749, Stop: 31297, Start Num: 101
Candidate Starts for Zartrosa_37:
(68, 30662), (Start: 101 @30749 has 411 MA's), (112, 30773), (143, 30971), (170, 31076), (197, 31181),

Gene: ZhongYanYuan_83 Start: 55291, Stop: 55689, Start Num: 103
Candidate Starts for ZhongYanYuan_83:
(Start: 103 @55291 has 76 MA's), (117, 55342), (119, 55363), (123, 55384), (129, 55423), (130, 55438), (133, 55456), (146, 55513), (148, 55516), (158, 55573), (170, 55609),

Gene: Zhuangyuan_60 Start: 34030, Stop: 34542, Start Num: 101
Candidate Starts for Zhuangyuan_60:
(Start: 101 @34030 has 411 MA's), (112, 34054), (123, 34126), (145, 34258), (148, 34264), (149, 34267), (163, 34336),

Gene: Zixiang_56 Start: 34405, Stop: 34884, Start Num: 101
Candidate Starts for Zixiang_56:
(Start: 101 @34405 has 411 MA's), (120, 34486), (133, 34579), (143, 34627), (145, 34633), (163, 34711), (181, 34762),

Gene: Zucker_67 Start: 38807, Stop: 39271, Start Num: 101
Candidate Starts for Zucker_67:
(Start: 101 @38807 has 411 MA's), (124, 38906), (135, 38999), (182, 39176),

Gene: pZL12_1c Start: 1177, Stop: 662, Start Num: 116
Candidate Starts for pZL12_1c:

(Start: 101 @1216 has 411 MA's), (108, 1201), (112, 1192), (113, 1189), (116, 1177), (120, 1135), (123, 1120), (126, 1111), (130, 1057), (133, 1039), (143, 991), (148, 979), (156, 934), (158, 922), (163, 907), (167, 898), (178, 868), (179, 865), (195, 781),

Gene: xkcd_103 Start: 60578, Stop: 61018, Start Num: 101
Candidate Starts for xkcd_103:
(35, 60377), (36, 60380), (Start: 41 @60407 has 1 MA's), (42, 60410), (51, 60452), (71, 60506), (Start: 101 @60578 has 411 MA's), (120, 60659), (124, 60677), (148, 60809), (160, 60875), (179, 60923),