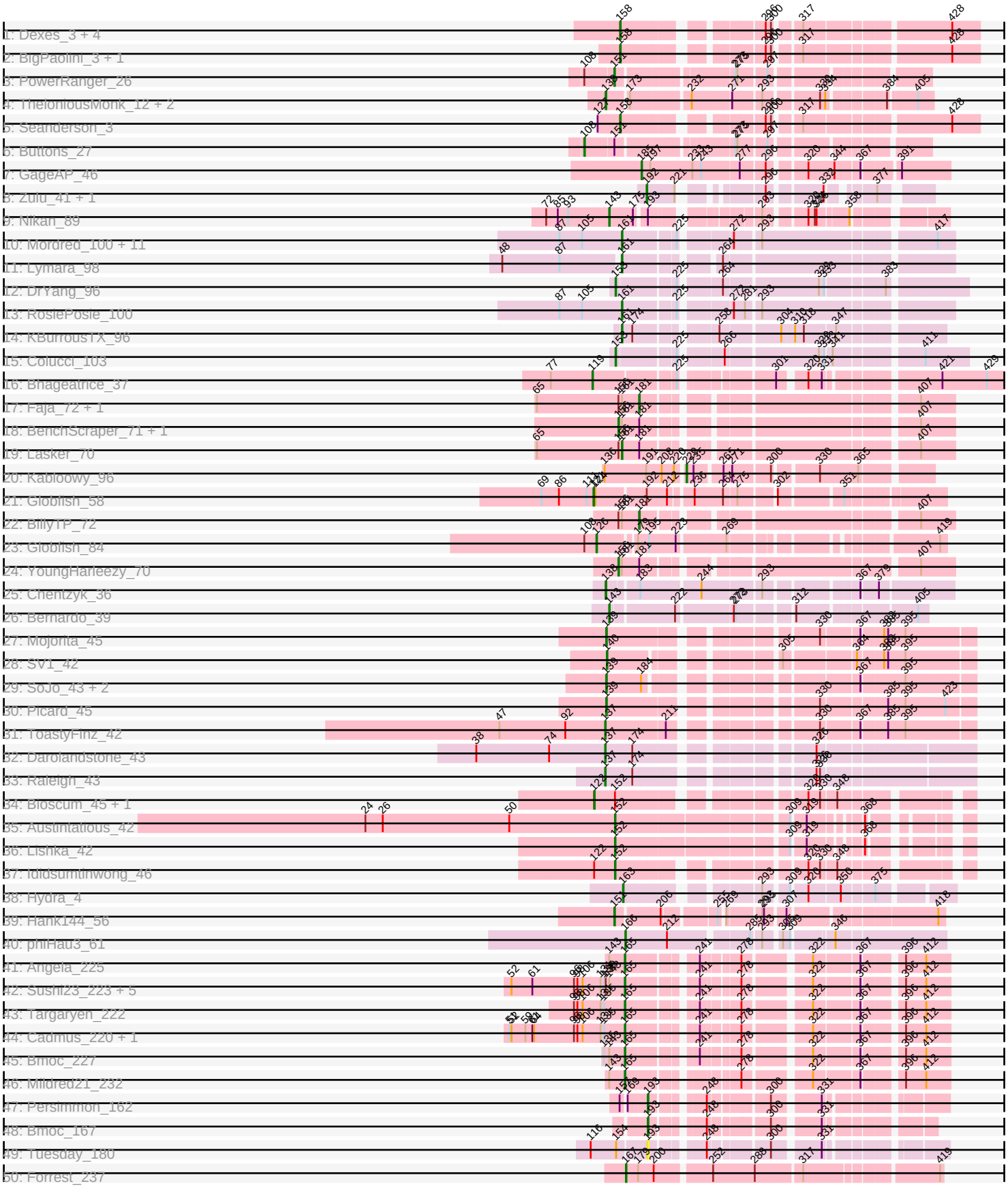
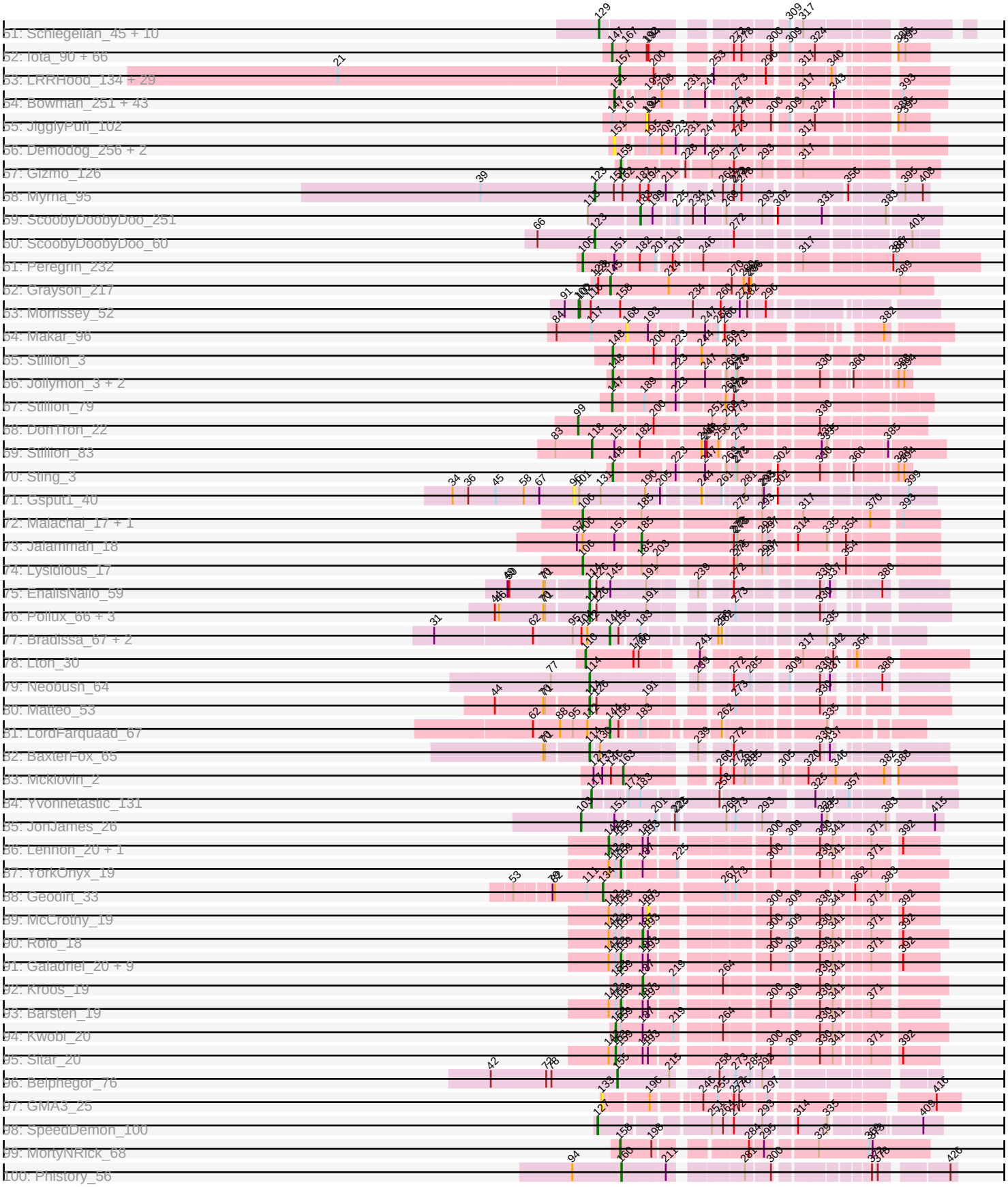
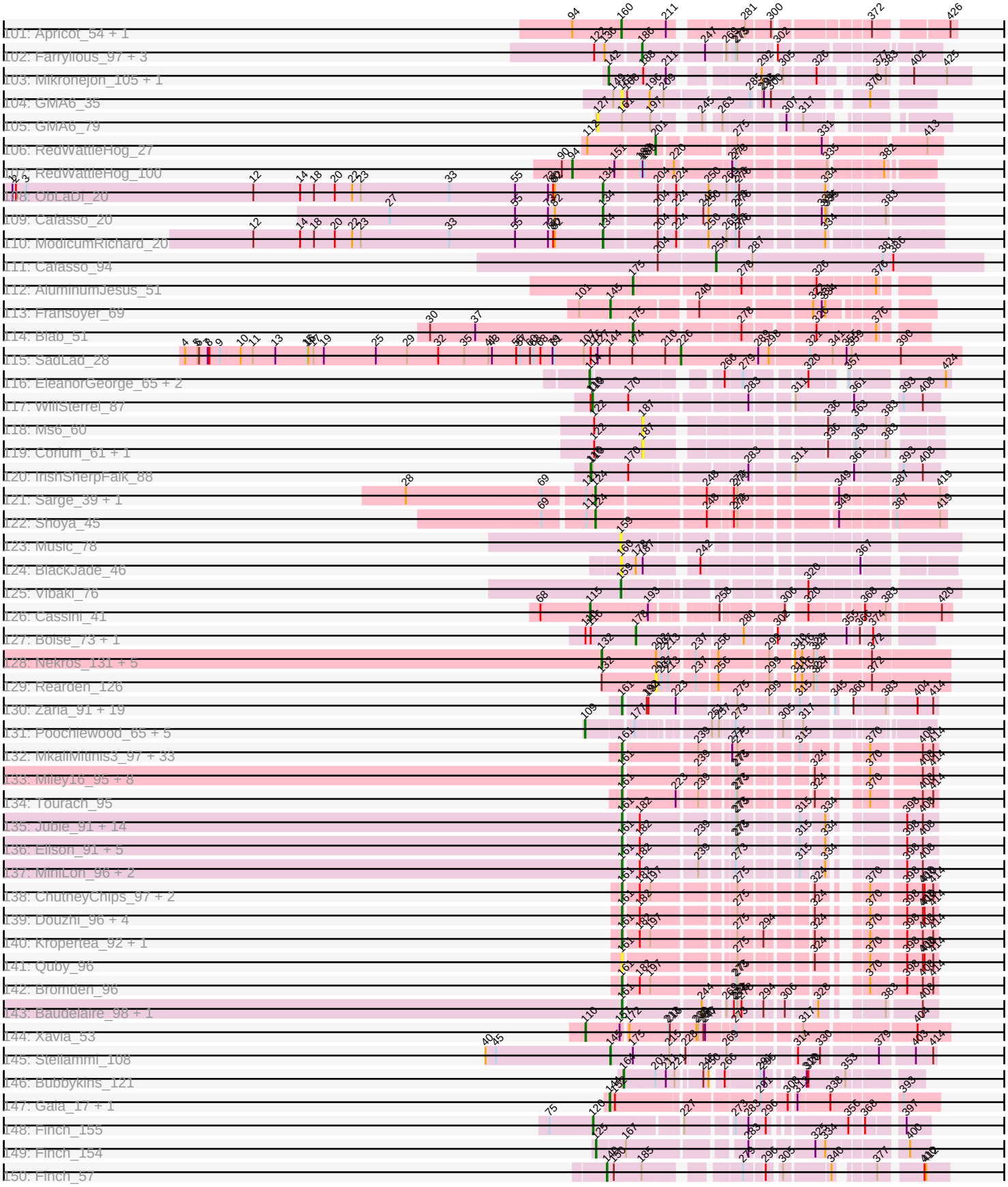
Pham 347089


1: Dexes_3 + 4
2: BigPaolini_3 + 1
3: PowerRanger_26
4: TheloniousMonk_12 + 2
5: Seanderson_3
6: Buttons_27
7: GageAP_46
8: Zulu_41 + 1
9: Nikan_89
10: Mordred_100 + 11
11: Lymara_98
12: DrYang_96
13: RosiePosie_100
14: KBurrousTX_96
15: Colucci_103
16: Bhageatrice_37
17: Faja_72 + 1
18: BenchScraper_71 + 1
19: Lasker_70
20: Kabloowy_96
21: Globlish_58
22: BillyTP_72
23: Globlish_84
24: YoungHarleezy_70
25: Chentzyk_36
26: Bernardo_39
27: Mojonta_45
28: SV1_42
29: SoJo_43 + 2
30: Picard_45
31: ToastyFinz_42
32: DarolandStone_43
33: Raleigh_43
34: Bioscum_45 + 1
35: Austintatious_42
36: Lishka_42
37: Ididsumtinwong_46
38: Hydra_4
39: Hank144_56
40: phiRau3_61
41: Angela_225
42: Sushi23_223 + 5
43: Targaryen_222
44: Cadmus_220 + 1
45: Bmoc_227
46: Mildred21_232
47: Persimmon_162
48: Bmoc_167
49: Tuesday_180
50: Forrest_237

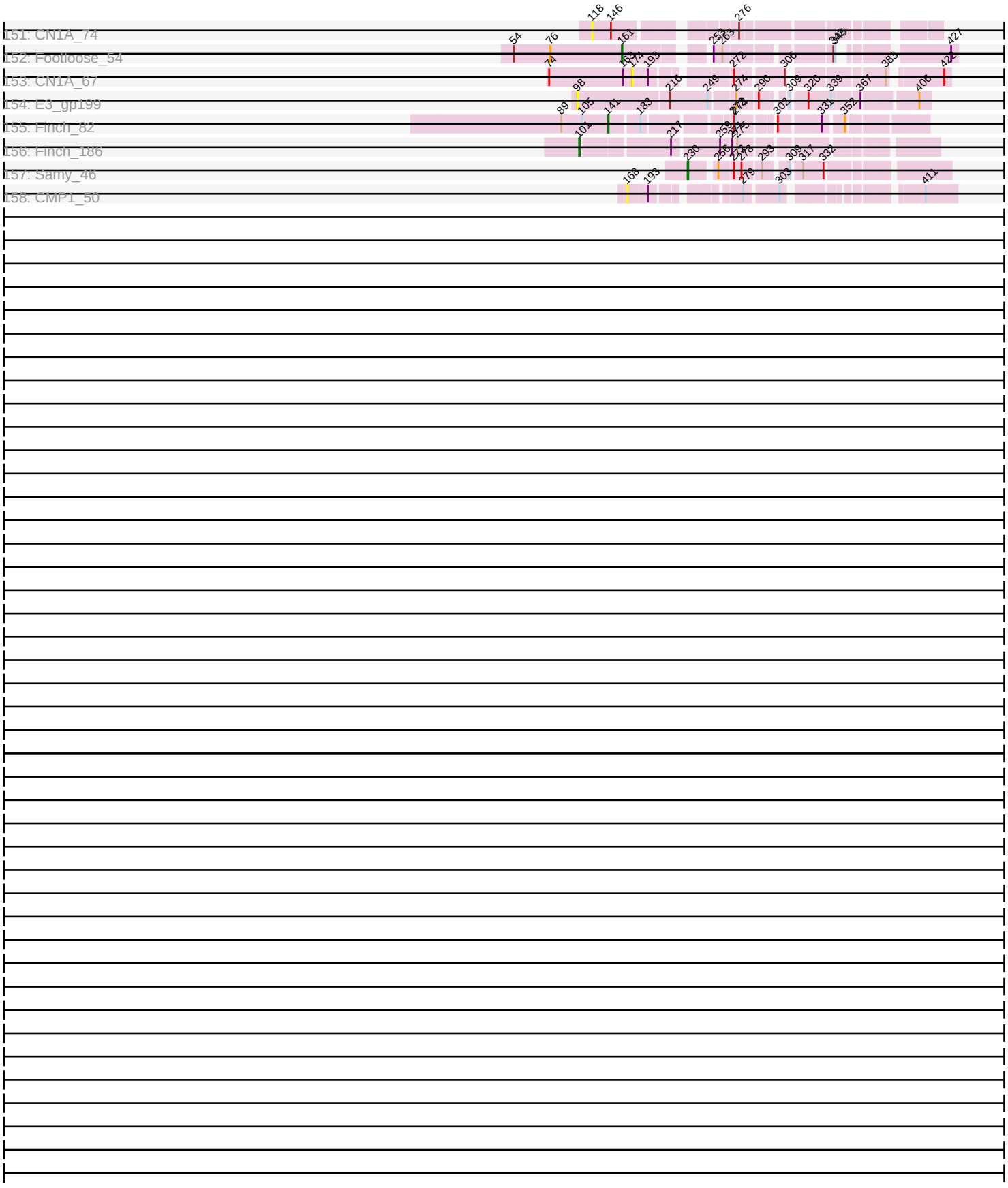
Pham 347089


51: Schlegelian_45 + 10
52: Iota_90 + 66
53: LRRHood_134 + 29
54: Bowman_251 + 43
55: JigglyPuff_102
56: Demodog_256 + 2
57: Gizmo_126
58: Myrna_95
59: ScoobyDoobyDoo_251
60: ScoobyDoobyDoo_60
61: Peregrin_232
62: Grayson_217
63: Morrissey_52
64: Makar_96
65: Stillion_3
66: Jollymon_3 + 2
67: Stillion_79
68: DonTron_22
69: Stillion_83
70: Sting_3
71: Gsputt1_40
72: Malachai_17 + 1
73: Jalamman_18
74: Lysidious_17
75: EnalisNallo_59
76: Pollux_66 + 3
77: Bradissa_67 + 2
78: Lton_30
79: Neobush_64
80: Matteo_53
81: LordFarquaad_67
82: BaxterFox_65
83: Mcklovin_2
84: Yvonnetastic_131
85: JonJames_26
86: Lennon_20 + 1
87: YorkOnyx_19
88: Geodin_33
89: McCrothy_19
90: Rolo_18
91: Galadriel_20 + 9
92: Kroos_19
93: Barsten_19
94: Kwobi_20
95: Sitar_20
96: Belphegor_76
97: GMA3_25
98: SpeedDemon_100
99: MortyNRick_68
100: Phistory_56

Pham 347089


101: Apricot_54 + 1
102: Farrylious_97 + 3
103: Mikronejon_105 + 1
104: GMA6_35
105: GMA6_79
106: RedWattleHog_27
107: RedWattleHog_100
108: ObLaDi_20
109: Calasso_20
110: ModicumRichard_20
111: Calasso_94
112: AluminumJesus_51
113: Fransoyer_69
114: Blab_51
115: SadLad_28
116: EleanorGeorge_65 + 2
117: WillSterrel_87
118: MS6_60
119: Corium_61 + 1
120: IrishSherpFalk_88
121: Sarge_39 + 1
122: Shoya_45
123: Music_78
124: BlackJade_46
125: Vibaki_76
126: Cassini_41
127: Boise_73 + 1
128: Nekros_131 + 5
129: Rearden_126
130: Zaria_91 + 19
131: Poochiewood_65 + 5
132: MikailMithis3_97 + 33
133: Miley16_95 + 8
134: Tourach_95
135: Jubie_91 + 14
136: Ellson_91 + 5
137: MimiLon_96 + 2
138: ChutneyChips_97 + 2
139: Douzhi_96 + 4
140: Kropertea_92 + 1
141: Quby_96
142: Bromden_96
143: Baudelaire_98 + 1
144: Xavia_53
145: Stellammi_108
146: Bubbykins_121
147: Gaia_17 + 1
148: Finch_155
149: Finch_154
150: Finch_57

Pham 347089


I51: CN1A_74
I52: Footloose_54
I53: CN1A_67
I54: E3_gp199
I55: Finch_82
I56: Finch_186
I57: Samy_46
I58: CMP1_50
118
146
276
54
76
161
253
263
427
74
163
174
193
272
306
383
422
98
216
249
274
290
309
320
339
367
406
89
105
141
183
302
331
352
101
217
259
275
230
260
278
293
309
317
332
168
193
279
303
411

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 347089 Report

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

Pham number 347089 has 466 members, 65 are drafts.

Phages represented in each track:
- Track 1 : Dexes_3, Smeagol_2, Smairt_2, Whitspit_3, Gyzlar_3
- Track 2 : BigPaolini_3, Licorice_4
- Track 3 : PowerRanger_26
- Track 4 : TheloniousMonk_12, Target_12, Gwendoluna_12
- Track 5 : Seanderson_3
- Track 6 : Buttons_27
- Track 7 : GageAP_46
- Track 8 : Zulu_41, Tucker_41
- Track 9 : Nikan_89
- Track 10 : Mordred_100, Tophat_101, Chipper1996_1010, HumptyDumpty_100, Chubster_100, PrincessTrina_101, JaNo_99, Linus_100, Chocolat_100, Kabreeze_100, EdgarPoe_100, Scavito_101
- Track 11 : Lymara_98
- Track 12 : DrYang_96
- Track 13 : RosiePosie_100
- Track 14 : KBurrousTX_96
- Track 15 : Colucci_103
- Track 16 : Bhageatrice_37
- Track 17 : Faja_72, Hestia_63
- Track 18 : BenchScraper_71, AdaS_68
- Track 19 : Lasker_70
- Track 20 : Kabloowy_96
- Track 21 : Globfish_58
- Track 22 : BillyTP_72
- Track 23 : Globfish_84
- Track 24 : YoungHarleezy_70
- Track 25 : Chentzyk_36
- Track 26 : Bernardo_39
- Track 27 : Mojorita_45
- Track 28 : SV1_42
- Track 29 : SoJo_43, DaRealMyers_43, Tubberson_43
- Track 30 : Picard_45
- Track 31 : ToastyFinz_42
- Track 32 : Darolandstone_43
- Track 33 : Raleigh_43
- Track 34 : Bioscum_45, PapayaSalad_44
- Track 35 : Austintatious_42

• Track 36 : Lishka_42
• Track 37 : Ididsumtinwong_46
• Track 38 : Hydra_4
• Track 39 : Hank144_56
• Track 40 : phiHau3_61
• Track 41 : Angela_225
• Track 42 : Sushi23_223, Cursive_225, Lululemon_219, PacManQ_219, Shuckle_221, Larnav_222
• Track 43 : Targaryen_222
• Track 44 : Cadmus_220, Daubenski_216
• Track 45 : Bmoc_227
• Track 46 : Mildred21_232
• Track 47 : Persimmon_162
• Track 48 : Bmoc_167
• Track 49 : Tuesday_180
• Track 50 : Forrest_237
• Track 51 : Schlegelian_45, AxeJC_43, Eklok_44, Ignacio_44, ArizonaGT_45, FrumpyGal_45, Cumberbatch_45, Eastland_44, Piccadilly_44, HFrancette_45, Vondra_43
• Track 52 : Iota_90, ValleyTerrace_96, Essence_93, Amataga_96, InigoMontoya_97, Ronan_89, JulietS_89, Derek_96, Cali_91, Naija_95, GlutenPhree_97, Koguma_92, SmallFry_96, McGee_97, YoungMoneyMata_96, Ading_96, EmmaElysia_95, Atlantean_95, Ngannou_92, Shnickers_96, Fixie_88, Substance289_93, Rahel_95, Guwapp_95, Ablatia_94, Jedediah_99, Spec_93, Yassified_92, Kboogie_99, Grungle_83, Ghost_95, Shaqnato_88, Gamgam_96, Phlegm_98, Chomp_95, CharlieB_91, Adlitam_96, Sebata_97, Audrick_98, Babyland_96, Patter_96, LRRHood_90, CindyLou_97, Jemmno_96, Nappy_98, Pupusa_101, Momo_95, Trinitium_92, Jaygup_96, Phusco_96, DirtMonster_89, Bangla1971_97, Fludd_96, Latch_96, Chargie21_92, StubbySaigey_98, JPickles_94, SilverDipper_97, LifeSavor_95, Sauce_96, ArcherS7_95, Basquiat_92, JustHall_92, Pivoine_95, Quasimodo_96, Sprinklers_91, BobaPhatt_92
• Track 53 : LRRHood_134, Jessibeth14_140, Phox_138, MikeLiesIn_142, Teardrop_140, LolaVinca_141, HyRo_132, ChickenPhender_137, Cane17_133, Pio_145, Bezza_135, Moby_134, CharlieB_138, Burrough_141, SVoro_139, Shaqnato_134, SiwenD96_142, Lukilu_131, Moiqah_133, Fludd_142, Breeniome_140, Mangeria_141, Bxz1_138, Rabinovish_140, Shelob_143, SoilZilla_137, DeejaClivia_128, Cali_136, Koguma_138, Shifa_130
• Track 54 : Bowman_251, Shrimp_252, Chargie21_247, Yucca_250, Specks_254, Janiyra_253, Bonray_252, FoxtrotP1_248, FudgeTart_245, SrishMeg2525_247, JPickles_247, Asterius_250, Issimir_243, TinyTim_248, Ablatia_249, Belieber_242, ZygoTaiga_246, Gizmo_255, McGee_251, Cleatunium_241, Morizzled23_247, BobaPhatt_243, Cactojaque_244, Teardrop_248, StubbySaigey_256, OrediggerDelux_251, PharkleMinkus_250, BananaFence_247, Ading_252, Salacia_251, PurduePete_250, Primadonna_244, Trinitium_246, Darko_249, Lee7_254, Maby2021_250, Erdmann_251, Basquiat_247, Blackbrain_248, Bread_246, Astraea_245, Fixie_242, EmToTheThree_250, ErnieJ_243
• Track 55 : JigglyPuff_102
• Track 56 : Demodog_256, SiwenD96_251, Concombre_255
• Track 57 : Gizmo_126
• Track 58 : Myrna_95
• Track 59 : ScoobyDoobyDoo_251
• Track 60 : ScoobyDoobyDoo_60
• Track 61 : Peregrin_232

• Track 62 : Grayson_217
• Track 63 : Morrissey_52
• Track 64 : Makar_96
• Track 65 : Stillion_3
• Track 66 : Jollymon_3, ColdSoup_3, Amo99_3
• Track 67 : Stillion_79
• Track 68 : DonTron_22
• Track 69 : Stillion_83
• Track 70 : Sting_3
• Track 71 : Gsput1_40
• Track 72 : Malachai_17, Begonia_17
• Track 73 : Jalammah_18
• Track 74 : Lysidious_17
• Track 75 : EnalisNailo_59
• Track 76 : Pollux_66, Floral_64, EMsquaredA_63, Marteena_62
• Track 77 : Bradissa_67, Lilas_67, EnalisNailo_66
• Track 78 : Lton_30
• Track 79 : Neobush_64
• Track 80 : Matteo_53
• Track 81 : LordFarquaad_67
• Track 82 : BaxterFox_65
• Track 83 : Mcklovin_2
• Track 84 : Yvonnetastic_131
• Track 85 : JonJames_26
• Track 86 : Lennon_20, Vivi2_18
• Track 87 : YorkOnyx_19
• Track 88 : Geodirt_33
• Track 89 : McCrothy_19
• Track 90 : Rofo_18
• Track 91 : Galadriel_20, Bibwit_19, Tangent_16, Charming_16, Fosterous_16, Love_20, Paries_19, BobBob_16, Keitabear_20, Nordenberg_13
• Track 92 : Kroos_19
• Track 93 : Barsten_19
• Track 94 : Kwobi_20
• Track 95 : Sitar_20
• Track 96 : Belphegor_76
• Track 97 : GMA3_25
• Track 98 : SpeedDemon_100
• Track 99 : MortyNRick_68
• Track 100 : Phistory_56
• Track 101 : Apricot_54, Crater_54
• Track 102 : Farrylious_97, ChisanaKitsune_96, Argena_96, MintFritos_94
• Track 103 : Mikronejon_105, Farrylious_104
• Track 104 : GMA6_35
• Track 105 : GMA6_79
• Track 106 : RedWattleHog_27
• Track 107 : RedWattleHog_100
• Track 108 : ObLaDi_20
• Track 109 : Cafasso_20
• Track 110 : ModicumRichard_20
• Track 111 : Cafasso_94
• Track 112 : AluminumJesus_51
• Track 113 : Fransoyer_69

• Track 114 : Blab_51
• Track 115 : SadLad_28
• Track 116 : EleanorGeorge_65, Firehouse51_66, Mutaforma13_69
• Track 117 : WillSterrel_87
• Track 118 : Ms6_60
• Track 119 : Corium_61, PatoPoderoso_61
• Track 120 : IrishSherpFalk_88
• Track 121 : Sarge_39, Rooter_41
• Track 122 : Shoya_45
• Track 123 : Music_78
• Track 124 : BlackJade_46
• Track 125 : Vibaki_76
• Track 126 : Cassini_41
• Track 127 : Boise_73, RomansRevenge_75
• Track 128 : Nekros_131, Squint_126, Gonephishing_122, Shaboozey_129, Nibley_125, MiaZeal_128
• Track 129 : Rearden_126
• Track 130 : Zaria_91, Silverleaf_90, Tyson_92, DirkDirk_88, Enceladus_88, JoeDirt_92, Halena_88, MAckerman_89, OhShagHennessy_87, Wamburgrxpress_90, LeBron_90, Rose5_92, Calm_92, Appletree2_90, UPIE_90, AvadaKedavra_91, Wyatt2_92, Acquire49_91, CicholasNage_88, Poochiewood_89
• Track 131 : Poochiewood_65, UPIE_65, Rose5_65, Enceladus_63, JoeDirt_64, Wamburgrxpress_65
• Track 132 : MkaliMitinis3_97, DHan_98, Underpass_87, GuuelaD_92, Hafay_96, Claus_94, Lynnae_96, BobsGarage_94, Molivier_86, Rossetti_95, LilDestine_93, DanBing_94, Bazzle_92, Lewan_96, Hiraya_94, Wilder_96, ChengKai98_94, Rumpelstiltskin_91, Finemlucis_96, SoJulia_97, Loadrie_94, BigCheese_95, Archie_92, Kahlid_94, Vetrix_93, Sarshaun_96, OverPar_97, Gardann_95, Nicholasp3_95, Baoshan_95, Zakai_96, Crossroads_95, Soap141_95, ZhongYanYuan_92
• Track 133 : Miley16_95, Netyap_94, Faith1_95, DrSeegs_94, Breezona_95, Winky_95, Wigglewiggle_95, Itos_95, Gabriela_95
• Track 134 : Tourach_95
• Track 135 : Jubie_91, Clautastrophe_90, Lumos_92, Whirlwind_93, Snenia_91, Finnry_92, Jobypre_92, Nicholas_90, MsGreen_92, TriFive_93, Bellis_92, Kingsolomon_90, Samty_91, Moostard_89, Red305_93
• Track 136 : Ellson_91, LiyuLake_91, BourbonZero_93, Krypton555_94, KirDoubleO7_90, DuncansLeg_92
• Track 137 : MiniLon_96, MiniMac_96, Lolly9_91
• Track 138 : ChutneyChips_97, FarmResident_97, Chaser_95
• Track 139 : Douzhi_96, PYPDinur_96, Sheng711_97, Douge_96, BrainDrainer_97
• Track 140 : Kropertea_92, DyoEdafos_98
• Track 141 : Quby_96
• Track 142 : Bromden_96
• Track 143 : Baudelaire_98, Aegeus_98
• Track 144 : Xavia_53
• Track 145 : Stellammi_108
• Track 146 : Bubbykins_121
• Track 147 : Gaia_17, Nebkiss_18
• Track 148 : Finch_155
• Track 149 : Finch_154
• Track 150 : Finch_57
• Track 151 : CN1A_74

• Track 152 : Footloose_54
• Track 153 : CN1A_67
• Track 154 : E3_gp199
• Track 155 : Finch_82
• Track 156 : Finch_186
• Track 157 : Samy_46
• Track 158 : CMP1_50

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

The start number called the most often in the published annotations is 161, it was called in 95 of the 401 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acquire49_91, Aegeus_98, Appletree2_90, Archie_92, AvadaKedavra_91, Baoshan_95, Baudelaire_98, Bazzle_92, Bellis_92, BigCheese_95, BobsGarage_94, BourbonZero_93, BrainDrainer_97, Breezona_95, Bromden_96, Calm_92, Chaser_95, ChengKai98_94, Chipper1996_1010, Chocolat_100, Chubster_100, ChutneyChips_97, CicholasNage_88, Claus_94, Clautastrophe_90, Crossroads_95, DHan_98, DanBing_94, DirkDirk_88, Douge_96, Douzhi_96, DrSeegs_94, DuncansLeg_92, DyoEdafos_98, EdgarPoe_100, Ellson_91, Enceladus_88, Faith1_95, FarmResident_97, Finemlucis_96, Finnry_92, Footloose_54, GMA6_35, Gabriela_95, Gardann_95, GuuelaD_92, Hafay_96, Halena_88, Hiraya_94, HumptyDumpty_100, Itos_95, JaNo_99, Jobypre_92, JoeDirt_92, Jubie_91, KBurrousTX_96, Kabreeze_100, Kahlid_94, Kingsolomon_90, KirDoubleO7_90, Kropertea_92, Krypton555_94, Lasker_70, LeBron_90, Lewan_96, LilDestine_93, Linus_100, LiyuLake_91, Loadrie_94, Lolly9_91, Lumos_92, Lymara_98, Lynnae_96, MAckerman_89, Miley16_95, MiniLon_96, MiniMac_96, MkaliMitinis3_97, Molivier_86, Moostard_89, Mordred_100, MsGreen_92, Netyap_94, Nicholas_90, Nicholasp3_95, OhShagHennessy_87, OverPar_97, PYPDinur_96, Poochiewood_89, PrincessTrina_101, Quby_96, Red305_93, Rose5_92, RosiePosie_100, Rossetti_95, Rumpelstiltskin_91, Samty_91, Sarshaun_96, Scavito_101, Sheng711_97, Silverleaf_90, Snenia_91, SoJulia_97, Soap141_95, Tophat_101, Tourach_95, TriFive_93, Tyson_92, UPIE_90, Underpass_87, Vetrix_93, Wamburgrxpress_90, Whirlwind_93, Wigglewiggle_95, Wilder_96, Winky_95, Wyatt2_92, Zakai_96, Zaria_91, ZhongYanYuan_92,

Genes that have the "Most Annotated" start but do not call it:
• AdaS_68, BenchScraper_71, BillyTP_72, Faja_72, GMA6_79, Hestia_63, YoungHarleezy_70,

Genes that do not have the "Most Annotated" start:
• Ablatia_249, Ablatia_94, Ading_252, Ading_96, Adlitam_96, AluminumJesus_51, Amataga_96, Amo99_3, Angela_225, Apricot_54, ArcherS7_95, Argena_96, ArizonaGT_45, Asterius_250, Astraea_245, Atlantean_95, Audrick_98, Austintatious_42, AxeJC_43, Babyland_96, BananaFence_247, Bangla1971_97, Barsten_19, Basquiat_247, Basquiat_92, BaxterFox_65, Begonia_17, Belieber_242, Belphegor_76, Bernardo_39, Bezza_135, Bhageatrice_37, Bibwit_19, BigPaolini_3, Bioscum_45, Blab_51, BlackJade_46, Blackbrain_248, Bmoc_167, Bmoc_227, BobBob_16, BobaPhatt_243, BobaPhatt_92, Boise_73, Bonray_252, Bowman_251,

Bradissa_67, Bread_246, Breeniome_140, Bubbykins_121, Burrough_141, Buttons_27, Bxz1_138, CMP1_50, CN1A_67, CN1A_74, Cactojaque_244, Cadmus_220, Cafasso_20, Cafasso_94, Cali_136, Cali_91, Cane17_133, Cassini_41, Chargie21_247, Chargie21_92, CharlieB_138, CharlieB_91, Charming_16, Chentzyk_36, ChickenPhender_137, ChisanaKitsune_96, Chomp_95, CindyLou_97, Cleatunium_241, ColdSoup_3, Colucci_103, Concombre_255, Corium_61, Crater_54, Cumberbatch_45, Cursive_225, DaRealMyers_43, Darko_249, Darolandstone_43, Daubenski_216, DeejaClivia_128, Demodog_256, Derek_96, Dexes_3, DirtMonster_89, DonTron_22, DrYang_96, E3_gp199, EMsquaredA_63, Eastland_44, Eklok_44, EleanorGeorge_65, EmToTheThree_250, EmmaElysia_95, EnalisNailo_59, EnalisNailo_66, Enceladus_63, Erdmann_251, ErnieJ_243, Essence_93, Farrylious_104, Farrylious_97, Finch_154, Finch_155, Finch_186, Finch_57, Finch_82, Firehouse51_66, Fixie_242, Fixie_88, Floral_64, Fludd_142, Fludd_96, Forrest_237, Fosterous_16, FoxtrotP1_248, Fransoyer_69, FrumpyGal_45, FudgeTart_245, GMA3_25, GageAP_46, Gaia_17, Galadriel_20, Gamgam_96, Geodirt_33, Ghost_95, Gizmo_126, Gizmo_255, Globfish_58, Globfish_84, GlutenPhree_97, Gonephishing_122, Grayson_217, Grungle_83, Gsput1_40, Guwapp_95, Gwendoluna_12, Gyzlar_3, HFrancette_45, Hank144_56, HyRo_132, Hydra_4, Ididsumtinwong_46, Ignacio_44, InigoMontoya_97, Iota_90, IrishSherpFalk_88, Issimir_243, JPickles_247, JPickles_94, Jalammah_18, Janiyra_253, Jaygup_96, Jedediah_99, Jemmno_96, Jessibeth14_140, JigglyPuff_102, JoeDirt_64, Jollymon_3, JonJames_26, JulietS_89, JustHall_92, Kabloowy_96, Kboogie_99, Keitabear_20, Koguma_138, Koguma_92, Kroos_19, Kwobi_20, LRRHood_134, LRRHood_90, Larnav_222, Latch_96, Lee7_254, Lennon_20, Licorice_4, LifeSavor_95, Lilas_67, Lishka_42, LolaVinca_141, LordFarquaad_67, Love_20, Lton_30, Lukilu_131, Lululemon_219, Lysidious_17, Maby2021_250, Makar_96, Malachai_17, Mangeria_141, Marteena_62, Matteo_53, McCrothy_19, McGee_251, McGee_97, Mcklovin_2, MiaZeal_128, MikeLiesIn_142, Mikronejon_105, Mildred21_232, MintFritos_94, Moby_134, ModicumRichard_20, Moiqah_133, Mojorita_45, Momo_95, Morizzled23_247, Morrissey_52, MortyNRick_68, Ms6_60, Music_78, Mutaforma13_69, Myrna_95, Naija_95, Nappy_98, Nebkiss_18, Nekros_131, Neobush_64, Ngannou_92, Nibley_125, Nikan_89, Nordenberg_13, ObLaDi_20, OrediggerDelux_251, PacManQ_219, PapayaSalad_44, Paries_19, PatoPoderoso_61, Patter_96, Peregrin_232, Persimmon_162, PharkleMinkus_250, Phistory_56, Phlegm_98, Phox_138, Phusco_96, Picard_45, Piccadilly_44, Pio_145, Pivoine_95, Pollux_66, Poochiewood_65, PowerRanger_26, Primadonna_244, Pupusa_101, PurduePete_250, Quasimodo_96, Rabinovish_140, Rahel_95, Raleigh_43, Rearden_126, RedWattleHog_100, RedWattleHog_27, Rofo_18, RomansRevenge_75, Ronan_89, Rooter_41, Rose5_65, SV1_42, SVoro_139, SadLad_28, Salacia_251, Samy_46, Sarge_39, Sauce_96, Schlegelian_45, ScoobyDoobyDoo_251, ScoobyDoobyDoo_60, Seanderson_3, Sebata_97, Shaboozey_129, Shaqnato_134, Shaqnato_88, Shelob_143, Shifa_130, Shnickers_96, Shoya_45, Shrimp_252, Shuckle_221, SilverDipper_97, Sitar_20, SiwenD96_142, SiwenD96_251, Smairt_2, SmallFry_96, Smeagol_2, SoJo_43, SoilZilla_137, Spec_93, Specks_254, SpeedDemon_100, Sprinklers_91, Squint_126, SrishMeg2525_247, Stellammi_108, Stillion_3, Stillion_79, Stillion_83, Sting_3, StubbySaigey_256, StubbySaigey_98, Substance289_93, Sushi23_223, Tangent_16, Targaryen_222, Target_12, Teardrop_140, Teardrop_248, TheloniousMonk_12, TinyTim_248, ToastyFinz_42, Trinitium_246, Trinitium_92, Tubberson_43, Tucker_41, Tuesday_180, UPIE_65, ValleyTerrace_96, Vibaki_76, Vivi2_18, Vondra_43, Wamburgrxpress_65, Whitspit_3, WillSterrel_87, Xavia_53, Yassified_92, YorkOnyx_19, YoungMoneyMata_96, Yucca_250, Yvonnetastic_131, Zulu_41,

ZygoTaiga_246, phiHau3_61,

Summary by start number:

Start 94:
• Found in 4 of 466 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 25.0% of time when present
• Phage (with cluster) where this start called: RedWattleHog_100 (DX),

Start 96:
• Found in 10 of 466 (2.1%) of genes in pham
• No Manual Annotations of this start.
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Gsput1_40 (CU2),

Start 98:
• Found in 10 of 466 (2.1%) of genes in pham
• No Manual Annotations of this start.
• Called 10.0% of time when present
• Phage (with cluster) where this start called: E3_gp199 (singleton),

Start 99:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DonTron_22 (CP),

Start 100:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Morrissey_52 (CD),

Start 101:
• Found in 3 of 466 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Finch_186 (singleton),

Start 103:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JonJames_26 (DD),

Start 106:
• Found in 14 of 466 (3.0%) of genes in pham
• Manual Annotations of this start: 4 of 401
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Begonia_17 (CV), Lysidious_17 (CV), Malachai_17 (CV), Peregrin_232 (CB),

Start 108:
• Found in 3 of 466 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Buttons_27 (A1),

Start 109:
• Found in 6 of 466 (1.3%) of genes in pham
• Manual Annotations of this start: 5 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Enceladus_63 (L1), JoeDirt_64 (L1), Poochiewood_65 (L1), Rose5_65 (L1), UPIE_65 (L1), Wamburgrxpress_65 (L1),

Start 110:
• Found in 4 of 466 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Lton_30 (CZ), Xavia_53 (P3),

Start 114:
• Found in 11 of 466 (2.4%) of genes in pham
• Manual Annotations of this start: 11 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaxterFox_65 (CZ3), EMsquaredA_63 (CY1), EleanorGeorge_65 (F1), EnalisNailo_59 (CY1), Firehouse51_66 (F1), Floral_64 (CY1), Marteena_62 (CY1), Matteo_53 (CZ2), Mutaforma13_69 (F1), Neobush_64 (CZ1), Pollux_66 (CY1),

Start 115:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cassini_41 (FN),

Start 116:
• Found in 7 of 466 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 14.3% of time when present
• Phage (with cluster) where this start called: IrishSherpFalk_88 (F1),

Start 117:
• Found in 2 of 466 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Yvonnetastic_131 (DD),

Start 118:
• Found in 2 of 466 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CN1A_74 (singleton), Stillion_83 (CP),

Start 119:

• Found in 3 of 466 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Bhageatrice_37 (AY), WillSterrel_87 (F1),

Start 120:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_155 (singleton),

Start 121:
• Found in 2 of 466 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Globfish_58 (AY),

Start 122:
• Found in 10 of 466 (2.1%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Bioscum_45 (BC3), PapayaSalad_44 (BC3),

Start 123:
• Found in 3 of 466 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Myrna_95 (C2), ScoobyDoobyDoo_60 (C2),

Start 124:
• Found in 4 of 466 (0.9%) of genes in pham
• Manual Annotations of this start: 3 of 401
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Rooter_41 (FB), Sarge_39 (FB), Shoya_45 (FB),

Start 125:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_154 (singleton),

Start 126:
• Found in 7 of 466 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Globfish_84 (AY),

Start 127:
• Found in 4 of 466 (0.9%) of genes in pham

• Manual Annotations of this start: 1 of 401
• Called 50.0% of time when present
• Phage (with cluster) where this start called: GMA6_79 (DQ), SpeedDemon_100 (DL),

Start 129:
• Found in 11 of 466 (2.4%) of genes in pham
• Manual Annotations of this start: 11 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArizonaGT_45 (BP), AxeJC_43 (BP), Cumberbatch_45 (BP), Eastland_44 (BP), Eklok_44 (BP), FrumpyGal_45 (BP), HFrancette_45 (BP), Ignacio_44 (BP), Piccadilly_44 (BP), Schlegelian_45 (BP), Vondra_43 (BP),

Start 132:
• Found in 7 of 466 (1.5%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Gonephishing_122 (J), MiaZeal_128 (J), Nekros_131 (J), Nibley_125 (J), Shaboozey_129 (J), Squint_126 (J),

Start 133:
• Found in 2 of 466 (0.4%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: GMA3_25 (DF2),

Start 134:
• Found in 4 of 466 (0.9%) of genes in pham
• Manual Annotations of this start: 4 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cafasso_20 (DZ), Geodirt_33 (DE1), ModicumRichard_20 (DZ), ObLaDi_20 (DZ),

Start 137:
• Found in 3 of 466 (0.6%) of genes in pham
• Manual Annotations of this start: 3 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Darolandstone_43 (BC2), Raleigh_43 (BC2), ToastyFinz_42 (BC1),

Start 138:
• Found in 10 of 466 (2.1%) of genes in pham
• Manual Annotations of this start: 4 of 401
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Chentzyk_36 (B3), Gwendoluna_12 (A1), Target_12 (A1), TheloniousMonk_12 (A1),

Start 139:
• Found in 5 of 466 (1.1%) of genes in pham
• Manual Annotations of this start: 5 of 401
• Called 100.0% of time when present

• Phage (with cluster) where this start called: DaRealMyers_43 (BC1), Mojorita_45 (BC1), Picard_45 (BC1), SoJo_43 (BC1), Tubberson_43 (BC1),

Start 140:
• Found in 2 of 466 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_57 (singleton), SV1_42 (BC1),

Start 141:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_82 (singleton),

Start 142:
• Found in 19 of 466 (4.1%) of genes in pham
• Manual Annotations of this start: 4 of 401
• Called 21.1% of time when present
• Phage (with cluster) where this start called: Farrylious_104 (DQ), Lennon_20 (DE1), Mikronejon_105 (DQ), Vivi2_18 (DE1),

Start 143:
• Found in 11 of 466 (2.4%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 18.2% of time when present
• Phage (with cluster) where this start called: Bernardo_39 (B3), Nikan_89 (AP2),

Start 144:
• Found in 7 of 466 (1.5%) of genes in pham
• Manual Annotations of this start: 6 of 401
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Bradissa_67 (CY1), EnalisNailo_66 (CY1), Gaia_17 (X), Lilas_67 (CY1), LordFarquaad_67 (CZ2), Nebkiss_18 (X),

Start 145:
• Found in 4 of 466 (0.9%) of genes in pham
• Manual Annotations of this start: 3 of 401
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Fransoyer_69 (EG), Grayson_217 (CB), Stellammi_108 (UNK),

Start 147:
• Found in 69 of 466 (14.8%) of genes in pham
• Manual Annotations of this start: 66 of 401
• Called 98.6% of time when present
• Phage (with cluster) where this start called: Ablatia_94 (C1), Ading_96 (C1), Adlitam_96 (C1), Amataga_96 (C1), ArcherS7_95 (C1), Atlantean_95 (C1), Audrick_98 (C1), Babyland_96 (C1), Bangla1971_97 (C1), Basquiat_92 (C1), BobaPhatt_92 (C1), Cali_91 (C1), Chargie21_92 (C1), CharlieB_91 (C1), Chomp_95 (C1), CindyLou_97 (C1), Derek_96 (C1), DirtMonster_89 (C1), EmmaElysia_95 (C1), Essence_93 (C1), Fixie_88 (C1), Fludd_96 (C1), Gamgam_96 (C1), Ghost_95 (C1), GlutenPhree_97 (C1), Grungle_83 (C1), Guwapp_95 (C1), InigoMontoya_97 (C1),

Iota_90 (C1), JPickles_94 (C1), Jaygup_96 (C1), Jedediah_99 (C1), Jemmno_96 (C1), JulietS_89 (C1), JustHall_92 (C1), Kboogie_99 (C1), Koguma_92 (C1), LRRHood_90 (C1), Latch_96 (C1), LifeSavor_95 (C1), McGee_97 (C1), Momo_95 (C1), Naija_95 (C1), Nappy_98 (C1), Ngannou_92 (C1), Patter_96 (C1), Phlegm_98 (C1), Phusco_96 (C1), Pivoine_95 (C1), Pupusa_101 (C1), Quasimodo_96 (C1), Rahel_95 (C1), Ronan_89 (C1), Sauce_96 (C1), Sebata_97 (C1), Shaqnato_88 (C1), Shnickers_96 (C1), SilverDipper_97 (C1), SmallFry_96 (C1), Spec_93 (C1), Sprinklers_91 (C1), Stillion_79 (CP), StubbySaigey_98 (C1), Substance289_93 (C1), Trinitium_92 (C1), ValleyTerrace_96 (C1), Yassified_92 (C1), YoungMoneyMata_96 (C1),

Start 148:
• Found in 5 of 466 (1.1%) of genes in pham
• Manual Annotations of this start: 3 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amo99_3 (CP), ColdSoup_3 (CP), Jollymon_3 (CP), Stillion_3 (CP), Sting_3 (CP),

Start 151:
• Found in 55 of 466 (11.8%) of genes in pham
• Manual Annotations of this start: 44 of 401
• Called 89.1% of time when present
• Phage (with cluster) where this start called: Ablatia_249 (C1), Ading_252 (C1), Asterius_250 (C1), Astraea_245 (C1), BananaFence_247 (C1), Basquiat_247 (C1), Belieber_242 (C1), Blackbrain_248 (C1), BobaPhatt_243 (C1), Bonray_252 (C1), Bowman_251 (C1), Bread_246 (C1), Cactojaque_244 (C1), Chargie21_247 (C1), Cleatunium_241 (C1), Concombre_255 (C1), Darko_249 (C1), Demodog_256 (C1), EmToTheThree_250 (C1), Erdmann_251 (C1), ErnieJ_243 (C1), Fixie_242 (C1), FoxtrotP1_248 (C1), FudgeTart_245 (C1), Gizmo_255 (C1), Hank144_56 (BD2), Issimir_243 (C1), JPickles_247 (C1), Janiyra_253 (C1), Lee7_254 (C1), Maby2021_250 (C1), McGee_251 (C1), Morizzled23_247 (C1), OrediggerDelux_251 (C1), PharkleMinkus_250 (C1), PowerRanger_26 (A1), Primadonna_244 (C1), PurduePete_250 (C1), Salacia_251 (C1), Shrimp_252 (C1), SiwenD96_251 (C1), Specks_254 (C1), SrishMeg2525_247 (C1), StubbySaigey_256 (C1), Teardrop_248 (C1), TinyTim_248 (C1), Trinitium_246 (C1), Yucca_250 (C1), ZygoTaiga_246 (C1),

Start 152:
• Found in 7 of 466 (1.5%) of genes in pham
• Manual Annotations of this start: 3 of 401
• Called 42.9% of time when present
• Phage (with cluster) where this start called: Austintatious_42 (BC3), Ididsumtinwong_46 (BC3), Lishka_42 (BC3),

Start 153:
• Found in 21 of 466 (4.5%) of genes in pham
• Manual Annotations of this start: 4 of 401
• Called 19.0% of time when present
• Phage (with cluster) where this start called: Colucci_103 (AR), DrYang_96 (AR), Kwobi_20 (DE1), Sitar_20 (DE1),

Start 155:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Belphegor_76 (DE2),

Start 156:
• Found in 11 of 466 (2.4%) of genes in pham
• Manual Annotations of this start: 3 of 401
• Called 27.3% of time when present
• Phage (with cluster) where this start called: AdaS_68 (AY), BenchScraper_71 (AY), YoungHarleezy_70 (AY),

Start 157:
• Found in 32 of 466 (6.9%) of genes in pham
• Manual Annotations of this start: 25 of 401
• Called 93.8% of time when present
• Phage (with cluster) where this start called: Bezza_135 (C1), Breeniome_140 (C1), Burrough_141 (C1), Bxz1_138 (C1), Cali_136 (C1), Cane17_133 (C1), CharlieB_138 (C1), ChickenPhender_137 (C1), DeejaClivia_128 (C1), Fludd_142 (C1), HyRo_132 (C1), Jessibeth14_140 (C1), Koguma_138 (C1), LRRHood_134 (C1), LolaVinca_141 (C1), Lukilu_131 (C1), Mangeria_141 (C1), MikeLiesIn_142 (C1), Moby_134 (C1), Moiqah_133 (C1), Phox_138 (C1), Pio_145 (C1), Rabinovish_140 (C1), SVoro_139 (C1), Shaqnato_134 (C1), Shelob_143 (C1), Shifa_130 (C1), SiwenD96_142 (C1), SoilZilla_137 (C1), Teardrop_140 (C1),

Start 158:
• Found in 10 of 466 (2.1%) of genes in pham
• Manual Annotations of this start: 8 of 401
• Called 90.0% of time when present
• Phage (with cluster) where this start called: BigPaolini_3 (A1), Dexes_3 (A1), Gyzlar_3 (A1), Licorice_4 (A1), MortyNRick_68 (DN), Seanderson_3 (A1), Smairt_2 (A1), Smeagol_2 (A1), Whitspit_3 (A1),

Start 159:
• Found in 22 of 466 (4.7%) of genes in pham
• Manual Annotations of this start: 14 of 401
• Called 68.2% of time when present
• Phage (with cluster) where this start called: Barsten_19 (DE1), Bibwit_19 (DE1), BobBob_16 (DE1), Charming_16 (DE1), Fosterous_16 (DE1), Galadriel_20 (DE1), Gizmo_126 (C1), Keitabear_20 (DE1), Love_20 (DE1), Music_78 (FL), Nordenberg_13 (DE1), Paries_19 (DE1), Tangent_16 (DE1), Vibaki_76 (FL), YorkOnyx_19 (DE1),

Start 160:
• Found in 4 of 466 (0.9%) of genes in pham
• Manual Annotations of this start: 3 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apricot_54 (DN3), BlackJade_46 (FL), Crater_54 (DN3), Phistory_56 (DN1),

Start 161:
• Found in 127 of 466 (27.3%) of genes in pham
• Manual Annotations of this start: 95 of 401
• Called 94.5% of time when present

• Phage (with cluster) where this start called: Acquire49_91 (L1), Aegeus_98 (L5), Appletree2_90 (L1), Archie_92 (L2), AvadaKedavra_91 (L1), Baoshan_95 (L2), Baudelaire_98 (L5), Bazzle_92 (L2), Bellis_92 (L3), BigCheese_95 (L2), BobsGarage_94 (L2), BourbonZero_93 (L3), BrainDrainer_97 (L4), Breezona_95 (L2), Bromden_96 (L4), Calm_92 (L1), Chaser_95 (L4), ChengKai98_94 (L2), Chipper1996_1010 (AR), Chocolat_100 (AR), Chubster_100 (AR), ChutneyChips_97 (L4), CicholasNage_88 (L1), Claus_94 (L2), Clautastrophe_90 (L3), Crossroads_95 (L2), DHan_98 (L2), DanBing_94 (L2), DirkDirk_88 (L1), Douge_96 (L4), Douzhi_96 (L4), DrSeegs_94 (L2), DuncansLeg_92 (L3), DyoEdafos_98 (L4), EdgarPoe_100 (AR), Ellson_91 (L3), Enceladus_88 (L1), Faith1_95 (L2), FarmResident_97 (L4), Finemlucis_96 (L2), Finnry_92 (L3), Footloose_54 (singleton), GMA6_35 (DQ), Gabriela_95 (L2), Gardann_95 (L2), GuuelaD_92 (L2), Hafay_96 (L2), Halena_88 (L1), Hiraya_94 (L2), HumptyDumpty_100 (AR), Itos_95 (L2), JaNo_99 (AR), Jobypre_92 (L3), JoeDirt_92 (L1), Jubie_91 (L3), KBurrousTX_96 (AR), Kabreeze_100 (AR), Kahlid_94 (L2), Kingsolomon_90 (L3), KirDoubleO7_90 (L3), Kropertea_92 (L4), Krypton555_94 (L3), Lasker_70 (AY), LeBron_90 (L1), Lewan_96 (L2), LilDestine_93 (L2), Linus_100 (AR), LiyuLake_91 (L3), Loadrie_94 (L2), Lolly9_91 (L3), Lumos_92 (L3), Lymara_98 (AR), Lynnae_96 (L2), MAckerman_89 (L1), Miley16_95 (L2), MiniLon_96 (L3), MiniMac_96 (L3), MkaliMitinis3_97 (L2), Molivier_86 (L2), Moostard_89 (L3), Mordred_100 (AR), MsGreen_92 (L3), Netyap_94 (L2), Nicholas_90 (L3), Nicholasp3_95 (L2), OhShagHennessy_87 (L1), OverPar_97 (L2), PYPDinur_96 (L4), Poochiewood_89 (L1), PrincessTrina_101 (AR), Quby_96 (L4), Red305_93 (L3), Rose5_92 (L1), RosiePosie_100 (AR), Rossetti_95 (L2), Rumpelstiltskin_91 (L2), Samty_91 (L3), Sarshaun_96 (L2), Scavito_101 (AR), Sheng711_97 (L4), Silverleaf_90 (L1), Snenia_91 (L3), SoJulia_97 (L2), Soap141_95 (L2), Tophat_101 (AR), Tourach_95 (L2), TriFive_93 (L3), Tyson_92 (L1), UPIE_90 (L1), Underpass_87 (L2), Vetrix_93 (L2), Wamburgrxpress_90 (L1), Whirlwind_93 (L3), Wigglewiggle_95 (L2), Wilder_96 (L2), Winky_95 (L2), Wyatt2_92 (L1), Zakai_96 (L2), Zaria_91 (L1), ZhongYanYuan_92 (L2),

Start 163:
• Found in 3 of 466 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Hydra_4 (BD1), Mcklovin_2 (CZ4),

Start 164:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bubbykins_121 (UNK),

Start 165:
• Found in 12 of 466 (2.6%) of genes in pham
• Manual Annotations of this start: 12 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Angela_225 (BE1), Bmoc_227 (BE1), Cadmus_220 (BE1), Cursive_225 (BE1), Daubenski_216 (BE1), Larnav_222 (BE1), Lululemon_219 (BE1), Mildred21_232 (BE1), PacManQ_219 (BE1), Shuckle_221 (BE1), Sushi23_223 (BE1), Targaryen_222 (BE1),

Start 166:
• Found in 1 of 466 (0.2%) of genes in pham

• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: phiHau3_61 (BD4),

Start 167:
• Found in 70 of 466 (15.0%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 1.4% of time when present
• Phage (with cluster) where this start called: Forrest_237 (BK1),

Start 168:
• Found in 3 of 466 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 66.7% of time when present
• Phage (with cluster) where this start called: CMP1_50 (singleton), Makar_96 (CP),

Start 174:
• Found in 5 of 466 (1.1%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: CN1A_67 (singleton),

Start 175:
• Found in 4 of 466 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 50.0% of time when present
• Phage (with cluster) where this start called: AluminumJesus_51 (EG), Blab_51 (EG),

Start 178:
• Found in 3 of 466 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Boise_73 (FT), RomansRevenge_75 (FT),

Start 181:
• Found in 7 of 466 (1.5%) of genes in pham
• Manual Annotations of this start: 3 of 401
• Called 42.9% of time when present
• Phage (with cluster) where this start called: BillyTP_72 (AY), Faja_72 (AY), Hestia_63 (AY),

Start 183:
• Found in 9 of 466 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 11.1% of time when present
• Phage (with cluster) where this start called: ScoobyDoobyDoo_251 (C2),

Start 185:
• Found in 6 of 466 (1.3%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 33.3% of time when present
• Phage (with cluster) where this start called: GageAP_46 (A1), Jalammah_18 (CV),

Start 186:
• Found in 4 of 466 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Argena_96 (DQ), ChisanaKitsune_96 (DQ), Farrylious_97 (DQ), MintFritos_94 (DQ),

Start 187:
• Found in 24 of 466 (5.2%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 20.8% of time when present
• Phage (with cluster) where this start called: Corium_61 (F1), Kroos_19 (DE1), Ms6_60 (F1), PatoPoderoso_61 (F1), Rofo_18 (DE1),

Start 192:
• Found in 91 of 466 (19.5%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 3.3% of time when present
• Phage (with cluster) where this start called: JigglyPuff_102 (C1), Tucker_41 (A6), Zulu_41 (A6),

Start 193:
• Found in 24 of 466 (5.2%) of genes in pham
• Manual Annotations of this start: 2 of 401
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Bmoc_167 (BE1), McCrothy_19 (DE1), Persimmon_162 (BE1), Tuesday_180 (BE2),

Start 201:
• Found in 4 of 466 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 25.0% of time when present
• Phage (with cluster) where this start called: RedWattleHog_27 (DX),

Start 202:
• Found in 7 of 466 (1.5%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Rearden_126 (J),

Start 226:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SadLad_28 (EG),

Start 229:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kabloowy_96 (AY),

Start 230:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Samy_46 (singleton),

Start 254:
• Found in 1 of 466 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 401
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cafasso_94 (DZ),

Summary by clusters:

There are 56 clusters represented in this pham: DN, singleton, FT, AP2, CZ3, DD, CZ1, DL, CZ4, FB, BD1, BP, DX, FL, FN, DQ, UNK, CU2, BD4, DF2, A1, CZ2, DN1, DN3, A6, C2, C1, P3, CY1, BK1, CB, EG, J, CD, CZ, L4, L5, L2, L3, L1, AY, X, CP, CV, F1, DE1, DE2, BD2, AR, B3, BE2, DZ, BE1, BC1, BC2, BC3,

Info for manual annotations of cluster A1:
•Start number 108 was manually annotated 1 time for cluster A1.
•Start number 138 was manually annotated 3 times for cluster A1.
•Start number 151 was manually annotated 1 time for cluster A1.
•Start number 158 was manually annotated 7 times for cluster A1.
•Start number 185 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A6:
•Start number 192 was manually annotated 2 times for cluster A6.

Info for manual annotations of cluster AP2:
•Start number 143 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AR:
•Start number 153 was manually annotated 2 times for cluster AR.
•Start number 161 was manually annotated 15 times for cluster AR.

Info for manual annotations of cluster AY:
•Start number 119 was manually annotated 1 time for cluster AY.
•Start number 121 was manually annotated 1 time for cluster AY.
•Start number 126 was manually annotated 1 time for cluster AY.
•Start number 156 was manually annotated 3 times for cluster AY.
•Start number 161 was manually annotated 1 time for cluster AY.
•Start number 181 was manually annotated 3 times for cluster AY.
•Start number 229 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster B3:
•Start number 138 was manually annotated 1 time for cluster B3.
•Start number 143 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster BC1:
•Start number 137 was manually annotated 1 time for cluster BC1.
•Start number 139 was manually annotated 5 times for cluster BC1.
•Start number 140 was manually annotated 1 time for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 137 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:
•Start number 122 was manually annotated 2 times for cluster BC3.
•Start number 152 was manually annotated 3 times for cluster BC3.

Info for manual annotations of cluster BD1:
•Start number 163 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 151 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BD4:
•Start number 166 was manually annotated 1 time for cluster BD4.

Info for manual annotations of cluster BE1:
•Start number 165 was manually annotated 12 times for cluster BE1.
•Start number 193 was manually annotated 2 times for cluster BE1.

Info for manual annotations of cluster BK1:
•Start number 167 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BP:
•Start number 129 was manually annotated 11 times for cluster BP.

Info for manual annotations of cluster C1:
•Start number 147 was manually annotated 65 times for cluster C1.
•Start number 151 was manually annotated 42 times for cluster C1.
•Start number 157 was manually annotated 25 times for cluster C1.
•Start number 159 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster C2:
•Start number 123 was manually annotated 2 times for cluster C2.
•Start number 183 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CB:
•Start number 106 was manually annotated 1 time for cluster CB.
•Start number 145 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CD:
•Start number 100 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CP:
•Start number 99 was manually annotated 1 time for cluster CP.
•Start number 118 was manually annotated 1 time for cluster CP.
•Start number 147 was manually annotated 1 time for cluster CP.
•Start number 148 was manually annotated 3 times for cluster CP.

Info for manual annotations of cluster CV:

•Start number 106 was manually annotated 3 times for cluster CV.
•Start number 185 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CY1:
•Start number 114 was manually annotated 5 times for cluster CY1.
•Start number 144 was manually annotated 3 times for cluster CY1.

Info for manual annotations of cluster CZ:
•Start number 110 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 114 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 114 was manually annotated 1 time for cluster CZ2.
•Start number 144 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 114 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 163 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster DD:
•Start number 103 was manually annotated 1 time for cluster DD.
•Start number 117 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DE1:
•Start number 134 was manually annotated 1 time for cluster DE1.
•Start number 142 was manually annotated 2 times for cluster DE1.
•Start number 153 was manually annotated 2 times for cluster DE1.
•Start number 159 was manually annotated 12 times for cluster DE1.
•Start number 187 was manually annotated 2 times for cluster DE1.

Info for manual annotations of cluster DE2:
•Start number 155 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster DL:
•Start number 127 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DN:
•Start number 158 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 160 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 160 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DQ:
•Start number 142 was manually annotated 2 times for cluster DQ.
•Start number 186 was manually annotated 2 times for cluster DQ.

Info for manual annotations of cluster DX:
•Start number 94 was manually annotated 1 time for cluster DX.
•Start number 201 was manually annotated 1 time for cluster DX.

Info for manual annotations of cluster DZ:
•Start number 134 was manually annotated 3 times for cluster DZ.
•Start number 254 was manually annotated 1 time for cluster DZ.

Info for manual annotations of cluster EG:
•Start number 145 was manually annotated 1 time for cluster EG.
•Start number 175 was manually annotated 2 times for cluster EG.
•Start number 226 was manually annotated 1 time for cluster EG.

Info for manual annotations of cluster F1:
•Start number 114 was manually annotated 3 times for cluster F1.
•Start number 116 was manually annotated 1 time for cluster F1.
•Start number 119 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster FB:
•Start number 124 was manually annotated 3 times for cluster FB.

Info for manual annotations of cluster FL:
•Start number 159 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FN:
•Start number 115 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FT:
•Start number 178 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster J:
•Start number 132 was manually annotated 2 times for cluster J.

Info for manual annotations of cluster L1:
•Start number 109 was manually annotated 5 times for cluster L1.
•Start number 161 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 161 was manually annotated 32 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 161 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 161 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:
•Start number 161 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster P3:
•Start number 110 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster UNK:
•Start number 145 was manually annotated 1 time for cluster UNK.
•Start number 164 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster X:
•Start number 144 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Ablatia_249 Start: 141923, Stop: 142372, Start Num: 151
Candidate Starts for Ablatia_249:
(Start: 151 @141923 has 44 MA's), (195, 141962), (208, 141980), (231, 142013), (247, 142040), (273, 142073), (317, 142160), (343, 142202), (393, 142301),

Gene: Ablatia_94 Start: 39624, Stop: 40067, Start Num: 147
Candidate Starts for Ablatia_94:
(Start: 147 @39624 has 66 MA's), (Start: 167 @39648 has 1 MA's), (Start: 192 @39684 has 2 MA's), (194, 39687), (272, 39789), (278, 39801), (300, 39846), (309, 39867), (324, 39900), (388, 40014), (395, 40026),

Gene: Acquire49_91 Start: 57365, Stop: 57775, Start Num: 161
Candidate Starts for Acquire49_91:
(Start: 161 @57365 has 95 MA's), (Start: 192 @57395 has 2 MA's), (194, 57398), (223, 57443), (275, 57521), (299, 57563), (315, 57599), (345, 57641), (360, 57647), (383, 57695), (404, 57740), (414, 57767),

Gene: AdaS_68 Start: 35660, Stop: 36148, Start Num: 156
Candidate Starts for AdaS_68:
(Start: 156 @35660 has 3 MA's), (Start: 161 @35666 has 95 MA's), (Start: 181 @35696 has 3 MA's), (407, 36092),

Gene: Ading_96 Start: 40893, Stop: 41336, Start Num: 147
Candidate Starts for Ading_96:
(Start: 147 @40893 has 66 MA's), (Start: 167 @40917 has 1 MA's), (Start: 192 @40953 has 2 MA's), (194, 40956), (272, 41058), (278, 41070), (300, 41115), (309, 41136), (324, 41169), (388, 41283), (395, 41295),

Gene: Ading_252 Start: 144356, Stop: 144805, Start Num: 151
Candidate Starts for Ading_252:
(Start: 151 @144356 has 44 MA's), (195, 144395), (208, 144413), (231, 144446), (247, 144473), (273, 144506), (317, 144593), (343, 144635), (393, 144734),

Gene: Adlitam_96 Start: 40910, Stop: 41353, Start Num: 147
Candidate Starts for Adlitam_96:
(Start: 147 @40910 has 66 MA's), (Start: 167 @40934 has 1 MA's), (Start: 192 @40970 has 2 MA's), (194, 40973), (272, 41075), (278, 41087), (300, 41132), (309, 41153), (324, 41186), (388, 41300), (395, 41312),

Gene: Aegeus_98 Start: 59877, Stop: 60281, Start Num: 161
Candidate Starts for Aegeus_98:

(Start: 161 @59877 has 95 MA's), (244, 59988), (269, 60015), (272, 60024), (273, 60027), (275, 60030), (278, 60036), (294, 60066), (306, 60090), (328, 60132), (383, 60201), (408, 60255),

Gene: AluminumJesus_51 Start: 40979, Stop: 40554, Start Num: 175
Candidate Starts for AluminumJesus_51:
(Start: 175 @40979 has 2 MA's), (278, 40811), (326, 40709), (376, 40625),

Gene: Amataga_96 Start: 40155, Stop: 40598, Start Num: 147
Candidate Starts for Amataga_96:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: Amo99_3 Start: 2875, Stop: 3255, Start Num: 148
Candidate Starts for Amo99_3:
(Start: 148 @2875 has 3 MA's), (223, 2959), (247, 2992), (269, 3019), (273, 3031), (275, 3034), (330, 3145), (360, 3181), (388, 3235), (394, 3244),

Gene: Angela_225 Start: 112366, Stop: 112806, Start Num: 165
Candidate Starts for Angela_225:
(Start: 143 @112339 has 2 MA's), (Start: 165 @112366 has 12 MA's), (241, 112462), (278, 112513), (322, 112606), (367, 112678), (396, 112732), (412, 112765),

Gene: Appletree2_90 Start: 57125, Stop: 57535, Start Num: 161
Candidate Starts for Appletree2_90:
(Start: 161 @57125 has 95 MA's), (Start: 192 @57155 has 2 MA's), (194, 57158), (223, 57203), (275, 57281), (299, 57323), (315, 57359), (345, 57401), (360, 57407), (383, 57455), (404, 57500), (414, 57527),

Gene: Apricot_54 Start: 35119, Stop: 35568, Start Num: 160
Candidate Starts for Apricot_54:
(Start: 94 @35038 has 1 MA's), (Start: 160 @35119 has 3 MA's), (211, 35191), (281, 35287), (300, 35323), (372, 35452), (426, 35557),

Gene: ArcherS7_95 Start: 40473, Stop: 40916, Start Num: 147
Candidate Starts for ArcherS7_95:
(Start: 147 @40473 has 66 MA's), (Start: 167 @40497 has 1 MA's), (Start: 192 @40533 has 2 MA's), (194, 40536), (272, 40638), (278, 40650), (300, 40695), (309, 40716), (324, 40749), (388, 40863), (395, 40875),

Gene: Archie_92 Start: 59049, Stop: 59462, Start Num: 161
Candidate Starts for Archie_92:
(Start: 161 @59049 has 95 MA's), (239, 59160), (271, 59199), (275, 59208), (315, 59286), (370, 59358), (408, 59436), (414, 59454),

Gene: Argena_96 Start: 72813, Stop: 73226, Start Num: 186
Candidate Starts for Argena_96:
(Start: 122 @72738 has 2 MA's), (136, 72756), (Start: 186 @72813 has 2 MA's), (247, 72909), (269, 72936), (273, 72948), (275, 72951), (302, 72999),

Gene: ArizonaGT_45 Start: 30201, Stop: 30692, Start Num: 129
Candidate Starts for ArizonaGT_45:
(Start: 129 @30201 has 11 MA's), (309, 30453), (317, 30468),

Gene: Asterius_250 Start: 142368, Stop: 142817, Start Num: 151
Candidate Starts for Asterius_250:
(Start: 151 @142368 has 44 MA's), (195, 142407), (208, 142425), (231, 142458), (247, 142485), (273, 142518), (317, 142605), (343, 142647), (393, 142746),

Gene: Astraea_245 Start: 141563, Stop: 142012, Start Num: 151
Candidate Starts for Astraea_245:
(Start: 151 @141563 has 44 MA's), (195, 141602), (208, 141620), (231, 141653), (247, 141680), (273, 141713), (317, 141800), (343, 141842), (393, 141941),

Gene: Atlantean_95 Start: 40155, Stop: 40598, Start Num: 147
Candidate Starts for Atlantean_95:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: Audrick_98 Start: 40134, Stop: 40577, Start Num: 147
Candidate Starts for Audrick_98:
(Start: 147 @40134 has 66 MA's), (Start: 167 @40158 has 1 MA's), (Start: 192 @40194 has 2 MA's), (194, 40197), (272, 40299), (278, 40311), (300, 40356), (309, 40377), (324, 40410), (388, 40524), (395, 40536),

Gene: Austintatious_42 Start: 27716, Stop: 28177, Start Num: 152
Candidate Starts for Austintatious_42:
(24, 27290), (26, 27320), (50, 27539), (Start: 152 @27716 has 3 MA's), (309, 27980), (319, 28001), (368, 28064),

Gene: AvadaKedavra_91 Start: 57477, Stop: 57887, Start Num: 161
Candidate Starts for AvadaKedavra_91:
(Start: 161 @57477 has 95 MA's), (Start: 192 @57507 has 2 MA's), (194, 57510), (223, 57555), (275, 57633), (299, 57675), (315, 57711), (345, 57753), (360, 57759), (383, 57807), (404, 57852), (414, 57879),

Gene: AxeJC_43 Start: 29903, Stop: 30394, Start Num: 129
Candidate Starts for AxeJC_43:
(Start: 129 @29903 has 11 MA's), (309, 30155), (317, 30170),

Gene: Babyland_96 Start: 39594, Stop: 40037, Start Num: 147
Candidate Starts for Babyland_96:
(Start: 147 @39594 has 66 MA's), (Start: 167 @39618 has 1 MA's), (Start: 192 @39654 has 2 MA's), (194, 39657), (272, 39759), (278, 39771), (300, 39816), (309, 39837), (324, 39870), (388, 39984), (395, 39996),

Gene: BananaFence_247 Start: 142192, Stop: 142641, Start Num: 151
Candidate Starts for BananaFence_247:
(Start: 151 @142192 has 44 MA's), (195, 142231), (208, 142249), (231, 142282), (247, 142309), (273, 142342), (317, 142429), (343, 142471), (393, 142570),

Gene: Bangla1971_97 Start: 40603, Stop: 41046, Start Num: 147
Candidate Starts for Bangla1971_97:
(Start: 147 @40603 has 66 MA's), (Start: 167 @40627 has 1 MA's), (Start: 192 @40663 has 2 MA's), (194, 40666), (272, 40768), (278, 40780), (300, 40825), (309, 40846), (324, 40879), (388, 40993),

(395, 41005),

Gene: Baoshan_95 Start: 59704, Stop: 60117, Start Num: 161
Candidate Starts for Baoshan_95:
(Start: 161 @59704 has 95 MA's), (239, 59815), (271, 59854), (275, 59863), (315, 59941), (370, 60013), (408, 60091), (414, 60109),

Gene: Barsten_19 Start: 14612, Stop: 15058, Start Num: 159
Candidate Starts for Barsten_19:
(Start: 142 @14591 has 4 MA's), (Start: 153 @14603 has 4 MA's), (Start: 159 @14612 has 14 MA's), (Start: 187 @14642 has 2 MA's), (Start: 193 @14651 has 2 MA's), (300, 14822), (309, 14855), (330, 14897), (341, 14918), (371, 14963),

Gene: Basquiat_92 Start: 39148, Stop: 39591, Start Num: 147
Candidate Starts for Basquiat_92:
(Start: 147 @39148 has 66 MA's), (Start: 167 @39172 has 1 MA's), (Start: 192 @39208 has 2 MA's), (194, 39211), (272, 39313), (278, 39325), (300, 39370), (309, 39391), (324, 39424), (388, 39538), (395, 39550),

Gene: Basquiat_247 Start: 140478, Stop: 140927, Start Num: 151
Candidate Starts for Basquiat_247:
(Start: 151 @140478 has 44 MA's), (195, 140517), (208, 140535), (231, 140568), (247, 140595), (273, 140628), (317, 140715), (343, 140757), (393, 140856),

Gene: Baudelaire_98 Start: 59877, Stop: 60281, Start Num: 161
Candidate Starts for Baudelaire_98:
(Start: 161 @59877 has 95 MA's), (244, 59988), (269, 60015), (272, 60024), (273, 60027), (275, 60030), (278, 60036), (294, 60066), (306, 60090), (328, 60132), (383, 60201), (408, 60255),

Gene: BaxterFox_65 Start: 44276, Stop: 44731, Start Num: 114
Candidate Starts for BaxterFox_65:
(70, 44204), (71, 44207), (Start: 114 @44276 has 11 MA's), (130, 44288), (239, 44417), (272, 44453), (330, 44570), (337, 44579),

Gene: Bazzle_92 Start: 59605, Stop: 60018, Start Num: 161
Candidate Starts for Bazzle_92:
(Start: 161 @59605 has 95 MA's), (239, 59716), (271, 59755), (275, 59764), (315, 59842), (370, 59914), (408, 59992), (414, 60010),

Gene: Begonia_17 Start: 10279, Stop: 10785, Start Num: 106
Candidate Starts for Begonia_17:
(Start: 106 @10279 has 4 MA's), (Start: 185 @10369 has 2 MA's), (275, 10504), (293, 10537), (317, 10588), (370, 10681), (393, 10723),

Gene: Belieber_242 Start: 140605, Stop: 141054, Start Num: 151
Candidate Starts for Belieber_242:
(Start: 151 @140605 has 44 MA's), (195, 140644), (208, 140662), (231, 140695), (247, 140722), (273, 140755), (317, 140842), (343, 140884), (393, 140983),

Gene: Bellis_92 Start: 59240, Stop: 59647, Start Num: 161
Candidate Starts for Bellis_92:
(Start: 161 @59240 has 95 MA's), (182, 59261), (273, 59390), (275, 59393), (315, 59471), (334, 59507), (398, 59594), (408, 59621),

Gene: Belphegor_76 Start: 56290, Stop: 56739, Start Num: 155
Candidate Starts for Belphegor_76:
(42, 56071), (72, 56167), (78, 56176), (Start: 155 @56290 has 1 MA's), (215, 56374), (258, 56431), (273, 56455), (285, 56479), (293, 56491),

Gene: BenchScraper_71 Start: 37047, Stop: 37535, Start Num: 156
Candidate Starts for BenchScraper_71:
(Start: 156 @37047 has 3 MA's), (Start: 161 @37053 has 95 MA's), (Start: 181 @37083 has 3 MA's), (407, 37479),

Gene: Bernardo_39 Start: 36994, Stop: 37440, Start Num: 143
Candidate Starts for Bernardo_39:
(Start: 143 @36994 has 2 MA's), (222, 37090), (272, 37174), (273, 37177), (312, 37255), (405, 37423),

Gene: Bezza_135 Start: 82627, Stop: 83043, Start Num: 157
Candidate Starts for Bezza_135:
(21, 82150), (Start: 157 @82627 has 25 MA's), (200, 82684), (253, 82747), (296, 82816), (317, 82861), (340, 82900),

Gene: Bhageatrice_37 Start: 26729, Stop: 27340, Start Num: 119
Candidate Starts for Bhageatrice_37:
(77, 26657), (Start: 119 @26729 has 2 MA's), (225, 26855), (301, 26984), (320, 27020), (331, 27041), (421, 27203), (429, 27278),

Gene: Bibwit_19 Start: 14856, Stop: 15302, Start Num: 159
Candidate Starts for Bibwit_19:
(Start: 142 @14835 has 4 MA's), (Start: 153 @14847 has 4 MA's), (Start: 159 @14856 has 14 MA's), (Start: 187 @14886 has 2 MA's), (Start: 193 @14895 has 2 MA's), (300, 15066), (309, 15099), (330, 15141), (341, 15162), (371, 15207), (392, 15243),

Gene: BigCheese_95 Start: 59815, Stop: 60228, Start Num: 161
Candidate Starts for BigCheese_95:
(Start: 161 @59815 has 95 MA's), (239, 59926), (271, 59965), (275, 59974), (315, 60052), (370, 60124), (408, 60202), (414, 60220),

Gene: BigPaolini_3 Start: 1128, Stop: 1637, Start Num: 158
Candidate Starts for BigPaolini_3:
(Start: 158 @1128 has 8 MA's), (296, 1323), (300, 1332), (317, 1368), (428, 1590),

Gene: BillyTP_72 Start: 38938, Stop: 39390, Start Num: 181
Candidate Starts for BillyTP_72:
(Start: 156 @38902 has 3 MA's), (Start: 161 @38908 has 95 MA's), (Start: 181 @38938 has 3 MA's), (407, 39334),

Gene: Bioscum_45 Start: 29978, Stop: 30484, Start Num: 122
Candidate Starts for Bioscum_45:
(Start: 122 @29978 has 2 MA's), (Start: 152 @30014 has 3 MA's), (320, 30272), (330, 30290), (348, 30311),

Gene: Blab_51 Start: 40826, Stop: 40401, Start Num: 175
Candidate Starts for Blab_51:
(30, 41177), (37, 41099), (Start: 175 @40826 has 2 MA's), (278, 40658), (326, 40556), (376, 40472),

Gene: BlackJade_46 Start: 31841, Stop: 32305, Start Num: 160
Candidate Starts for BlackJade_46:
(Start: 160 @31841 has 3 MA's), (Start: 178 @31862 has 1 MA's), (Start: 187 @31874 has 2 MA's), (242, 31943), (367, 32168),

Gene: Blackbrain_248 Start: 142255, Stop: 142704, Start Num: 151
Candidate Starts for Blackbrain_248:
(Start: 151 @142255 has 44 MA's), (195, 142294), (208, 142312), (231, 142345), (247, 142372), (273, 142405), (317, 142492), (343, 142534), (393, 142633),

Gene: Bmoc_227 Start: 112807, Stop: 113247, Start Num: 165
Candidate Starts for Bmoc_227:
(135, 112771), (Start: 143 @112780 has 2 MA's), (Start: 165 @112807 has 12 MA's), (241, 112903), (278, 112954), (322, 113047), (367, 113119), (396, 113173), (412, 113206),

Gene: Bmoc_167 Start: 91666, Stop: 92031, Start Num: 193
Candidate Starts for Bmoc_167:
(Start: 193 @91666 has 2 MA's), (248, 91735), (300, 91822), (331, 91888),

Gene: BobBob_16 Start: 13466, Stop: 13912, Start Num: 159
Candidate Starts for BobBob_16:
(Start: 142 @13445 has 4 MA's), (Start: 153 @13457 has 4 MA's), (Start: 159 @13466 has 14 MA's), (Start: 187 @13496 has 2 MA's), (Start: 193 @13505 has 2 MA's), (300, 13676), (309, 13709), (330, 13751), (341, 13772), (371, 13817), (392, 13853),

Gene: BobaPhatt_243 Start: 141373, Stop: 141822, Start Num: 151
Candidate Starts for BobaPhatt_243:
(Start: 151 @141373 has 44 MA's), (195, 141412), (208, 141430), (231, 141463), (247, 141490), (273, 141523), (317, 141610), (343, 141652), (393, 141751),

Gene: BobaPhatt_92 Start: 38788, Stop: 39231, Start Num: 147
Candidate Starts for BobaPhatt_92:
(Start: 147 @38788 has 66 MA's), (Start: 167 @38812 has 1 MA's), (Start: 192 @38848 has 2 MA's), (194, 38851), (272, 38953), (278, 38965), (300, 39010), (309, 39031), (324, 39064), (388, 39178), (395, 39190),

Gene: BobsGarage_94 Start: 59815, Stop: 60228, Start Num: 161
Candidate Starts for BobsGarage_94:
(Start: 161 @59815 has 95 MA's), (239, 59926), (271, 59965), (275, 59974), (315, 60052), (370, 60124), (408, 60202), (414, 60220),

Gene: Boise_73 Start: 50699, Stop: 50262, Start Num: 178
Candidate Starts for Boise_73:
(Start: 110 @50783 has 2 MA's), (Start: 116 @50774 has 1 MA's), (Start: 178 @50699 has 1 MA's), (280, 50534), (302, 50489), (355, 50387), (366, 50369), (374, 50351),

Gene: Bonray_252 Start: 144055, Stop: 144504, Start Num: 151
Candidate Starts for Bonray_252:
(Start: 151 @144055 has 44 MA's), (195, 144094), (208, 144112), (231, 144145), (247, 144172), (273, 144205), (317, 144292), (343, 144334), (393, 144433),

Gene: BourbonZero_93 Start: 59266, Stop: 59673, Start Num: 161

Candidate Starts for BourbonZero_93:
(Start: 161 @59266 has 95 MA's), (182, 59287), (239, 59371), (273, 59416), (275, 59419), (315, 59497), (334, 59533), (398, 59620), (408, 59647),

Gene: Bowman_251 Start: 143170, Stop: 143619, Start Num: 151
Candidate Starts for Bowman_251:
(Start: 151 @143170 has 44 MA's), (195, 143209), (208, 143227), (231, 143260), (247, 143287), (273, 143320), (317, 143407), (343, 143449), (393, 143548),

Gene: Bradissa_67 Start: 46915, Stop: 47334, Start Num: 144
Candidate Starts for Bradissa_67:
(31, 46627), (62, 46789), (95, 46852), (104, 46867), (112, 46876), (Start: 144 @46915 has 6 MA's), (Start: 156 @46927 has 3 MA's), (Start: 183 @46957 has 1 MA's), (256, 47056), (262, 47062), (335, 47200),

Gene: BrainDrainer_97 Start: 59520, Stop: 59927, Start Num: 161
Candidate Starts for BrainDrainer_97:
(Start: 161 @59520 has 95 MA's), (182, 59541), (275, 59673), (324, 59769), (370, 59823), (398, 59874), (408, 59901), (410, 59904), (414, 59919),

Gene: Bread_246 Start: 142022, Stop: 142471, Start Num: 151
Candidate Starts for Bread_246:
(Start: 151 @142022 has 44 MA's), (195, 142061), (208, 142079), (231, 142112), (247, 142139), (273, 142172), (317, 142259), (343, 142301), (393, 142400),

Gene: Breeniome_140 Start: 81159, Stop: 81575, Start Num: 157
Candidate Starts for Breeniome_140:
(21, 80682), (Start: 157 @81159 has 25 MA's), (200, 81216), (253, 81279), (296, 81348), (317, 81393), (340, 81432),

Gene: Breezona_95 Start: 59815, Stop: 60228, Start Num: 161
Candidate Starts for Breezona_95:
(Start: 161 @59815 has 95 MA's), (239, 59926), (273, 59971), (275, 59974), (324, 60070), (370, 60124), (408, 60202), (414, 60220),

Gene: Bromden_96 Start: 60413, Stop: 60820, Start Num: 161
Candidate Starts for Bromden_96:
(Start: 161 @60413 has 95 MA's), (182, 60434), (197, 60449), (273, 60563), (275, 60566), (370, 60716), (398, 60767), (408, 60794), (414, 60812),

Gene: Bubbykins_121 Start: 68548, Stop: 68958, Start Num: 164
Candidate Starts for Bubbykins_121:
(Start: 164 @68548 has 1 MA's), (Start: 201 @68602 has 1 MA's), (211, 68620), (221, 68635), (246, 68671), (250, 68680), (266, 68695), (291, 68743), (295, 68746), (319, 68794), (320, 68797), (353, 68851),

Gene: Burrough_141 Start: 83310, Stop: 83726, Start Num: 157
Candidate Starts for Burrough_141:
(21, 82833), (Start: 157 @83310 has 25 MA's), (200, 83367), (253, 83430), (296, 83499), (317, 83544), (340, 83583),

Gene: Buttons_27 Start: 21411, Stop: 21896, Start Num: 108
Candidate Starts for Buttons_27:

(Start: 108 @21411 has 1 MA's), (Start: 151 @21459 has 44 MA's), (273, 21630), (275, 21633), (297, 21672),

Gene: Bxz1_138 Start: 84513, Stop: 84929, Start Num: 157
Candidate Starts for Bxz1_138:
(21, 84036), (Start: 157 @84513 has 25 MA's), (200, 84570), (253, 84633), (296, 84702), (317, 84747), (340, 84786),

Gene: CMP1_50 Start: 47245, Stop: 46814, Start Num: 168
Candidate Starts for CMP1_50:
(168, 47245), (Start: 193 @47212 has 2 MA's), (279, 47098), (303, 47044), (411, 46864),

Gene: CN1A_74 Start: 54320, Stop: 53856, Start Num: 118
Candidate Starts for CN1A_74:
(Start: 118 @54320 has 1 MA's), (146, 54290), (276, 54131),

Gene: CN1A_67 Start: 52198, Stop: 51770, Start Num: 174
Candidate Starts for CN1A_67:
(74, 52336), (Start: 163 @52210 has 2 MA's), (174, 52198), (Start: 193 @52174 has 2 MA's), (272, 52066), (306, 51991), (383, 51853), (422, 51781),

Gene: Cactojaque_244 Start: 141201, Stop: 141650, Start Num: 151
Candidate Starts for Cactojaque_244:
(Start: 151 @141201 has 44 MA's), (195, 141240), (208, 141258), (231, 141291), (247, 141318), (273, 141351), (317, 141438), (343, 141480), (393, 141579),

Gene: Cadmus_220 Start: 113488, Stop: 113928, Start Num: 165
Candidate Starts for Cadmus_220:
(51, 113290), (52, 113293), (59, 113317), (61, 113329), (64, 113332), (96, 113401), (98, 113407), (Start: 106 @113416 has 4 MA's), (131, 113446), (135, 113452), (Start: 165 @113488 has 12 MA's), (241, 113584), (278, 113635), (322, 113728), (367, 113800), (396, 113854), (412, 113887),

Gene: Cafasso_20 Start: 18713, Stop: 18225, Start Num: 134
Candidate Starts for Cafasso_20:
(27, 19079), (55, 18863), (73, 18806), (82, 18794), (Start: 134 @18713 has 4 MA's), (204, 18629), (224, 18605), (246, 18569), (250, 18560), (273, 18521), (276, 18515), (331, 18401), (334, 18395), (335, 18392), (383, 18314),

Gene: Cafasso_94 Start: 55360, Stop: 55818, Start Num: 254
Candidate Starts for Cafasso_94:
(204, 55264), (Start: 254 @55360 has 1 MA's), (287, 55423), (381, 55645), (386, 55663),

Gene: Cali_91 Start: 40987, Stop: 41430, Start Num: 147
Candidate Starts for Cali_91:
(Start: 147 @40987 has 66 MA's), (Start: 167 @41011 has 1 MA's), (Start: 192 @41047 has 2 MA's), (194, 41050), (272, 41152), (278, 41164), (300, 41209), (309, 41230), (324, 41263), (388, 41377), (395, 41389),

Gene: Cali_136 Start: 83312, Stop: 83728, Start Num: 157
Candidate Starts for Cali_136:
(21, 82835), (Start: 157 @83312 has 25 MA's), (200, 83369), (253, 83432), (296, 83501), (317, 83546), (340, 83585),

Gene: Calm_92 Start: 57376, Stop: 57786, Start Num: 161
Candidate Starts for Calm_92:
(Start: 161 @57376 has 95 MA's), (Start: 192 @57406 has 2 MA's), (194, 57409), (223, 57454), (275, 57532), (299, 57574), (315, 57610), (345, 57652), (360, 57658), (383, 57706), (404, 57751), (414, 57778),

Gene: Cane17_133 Start: 84174, Stop: 84590, Start Num: 157
Candidate Starts for Cane17_133:
(21, 83697), (Start: 157 @84174 has 25 MA's), (200, 84231), (253, 84294), (296, 84363), (317, 84408), (340, 84447),

Gene: Cassini_41 Start: 28053, Stop: 28541, Start Num: 115
Candidate Starts for Cassini_41:
(68, 27969), (Start: 115 @28053 has 1 MA's), (Start: 193 @28143 has 2 MA's), (258, 28230), (306, 28320), (320, 28344), (368, 28416), (383, 28449), (420, 28524),

Gene: Chargie21_247 Start: 140478, Stop: 140927, Start Num: 151
Candidate Starts for Chargie21_247:
(Start: 151 @140478 has 44 MA's), (195, 140517), (208, 140535), (231, 140568), (247, 140595), (273, 140628), (317, 140715), (343, 140757), (393, 140856),

Gene: Chargie21_92 Start: 39148, Stop: 39591, Start Num: 147
Candidate Starts for Chargie21_92:
(Start: 147 @39148 has 66 MA's), (Start: 167 @39172 has 1 MA's), (Start: 192 @39208 has 2 MA's), (194, 39211), (272, 39313), (278, 39325), (300, 39370), (309, 39391), (324, 39424), (388, 39538), (395, 39550),

Gene: CharlieB_138 Start: 82195, Stop: 82611, Start Num: 157
Candidate Starts for CharlieB_138:
(21, 81718), (Start: 157 @82195 has 25 MA's), (200, 82252), (253, 82315), (296, 82384), (317, 82429), (340, 82468),

Gene: CharlieB_91 Start: 38985, Stop: 39428, Start Num: 147
Candidate Starts for CharlieB_91:
(Start: 147 @38985 has 66 MA's), (Start: 167 @39009 has 1 MA's), (Start: 192 @39045 has 2 MA's), (194, 39048), (272, 39150), (278, 39162), (300, 39207), (309, 39228), (324, 39261), (388, 39375), (395, 39387),

Gene: Charming_16 Start: 13468, Stop: 13914, Start Num: 159
Candidate Starts for Charming_16:
(Start: 142 @13447 has 4 MA's), (Start: 153 @13459 has 4 MA's), (Start: 159 @13468 has 14 MA's), (Start: 187 @13498 has 2 MA's), (Start: 193 @13507 has 2 MA's), (300, 13678), (309, 13711), (330, 13753), (341, 13774), (371, 13819), (392, 13855),

Gene: Chaser_95 Start: 58821, Stop: 59228, Start Num: 161
Candidate Starts for Chaser_95:
(Start: 161 @58821 has 95 MA's), (182, 58842), (197, 58857), (275, 58974), (324, 59070), (370, 59124), (398, 59175), (408, 59202), (410, 59205), (414, 59220),

Gene: ChengKai98_94 Start: 59289, Stop: 59702, Start Num: 161
Candidate Starts for ChengKai98_94:
(Start: 161 @59289 has 95 MA's), (239, 59400), (271, 59439), (275, 59448), (315, 59526), (370, 59598), (408, 59676), (414, 59694),

Gene: Chentzyk_36 Start: 34824, Stop: 35315, Start Num: 138
Candidate Starts for Chentzyk_36:
(Start: 138 @34824 has 4 MA's), (Start: 183 @34869 has 1 MA's), (244, 34959), (293, 35046), (367, 35178), (379, 35202),

Gene: ChickenPhender_137 Start: 81501, Stop: 81917, Start Num: 157
Candidate Starts for ChickenPhender_137:
(21, 81024), (Start: 157 @81501 has 25 MA's), (200, 81558), (253, 81621), (296, 81690), (317, 81735), (340, 81774),

Gene: Chipper1996_1010 Start: 63867, Stop: 64361, Start Num: 161
Candidate Starts for Chipper1996_1010:
(87, 63759), (105, 63798), (Start: 161 @63867 has 95 MA's), (225, 63951), (272, 64023), (293, 64062), (417, 64332),

Gene: ChisanaKitsune_96 Start: 72440, Stop: 72853, Start Num: 186
Candidate Starts for ChisanaKitsune_96:
(Start: 122 @72365 has 2 MA's), (136, 72383), (Start: 186 @72440 has 2 MA's), (247, 72536), (269, 72563), (273, 72575), (275, 72578), (302, 72626),

Gene: Chocolat_100 Start: 63574, Stop: 64068, Start Num: 161
Candidate Starts for Chocolat_100:
(87, 63466), (105, 63505), (Start: 161 @63574 has 95 MA's), (225, 63658), (272, 63730), (293, 63769), (417, 64039),

Gene: Chomp_95 Start: 41443, Stop: 41886, Start Num: 147
Candidate Starts for Chomp_95:
(Start: 147 @41443 has 66 MA's), (Start: 167 @41467 has 1 MA's), (Start: 192 @41503 has 2 MA's), (194, 41506), (272, 41608), (278, 41620), (300, 41665), (309, 41686), (324, 41719), (388, 41833), (395, 41845),

Gene: Chubster_100 Start: 63814, Stop: 64308, Start Num: 161
Candidate Starts for Chubster_100:
(87, 63706), (105, 63745), (Start: 161 @63814 has 95 MA's), (225, 63898), (272, 63970), (293, 64009), (417, 64279),

Gene: ChutneyChips_97 Start: 59567, Stop: 59974, Start Num: 161
Candidate Starts for ChutneyChips_97:
(Start: 161 @59567 has 95 MA's), (182, 59588), (197, 59603), (275, 59720), (324, 59816), (370, 59870), (398, 59921), (408, 59948), (410, 59951), (414, 59966),

Gene: CicholasNage_88 Start: 57029, Stop: 57439, Start Num: 161
Candidate Starts for CicholasNage_88:
(Start: 161 @57029 has 95 MA's), (Start: 192 @57059 has 2 MA's), (194, 57062), (223, 57107), (275, 57185), (299, 57227), (315, 57263), (345, 57305), (360, 57311), (383, 57359), (404, 57404), (414, 57431),

Gene: CindyLou_97 Start: 41484, Stop: 41927, Start Num: 147
Candidate Starts for CindyLou_97:
(Start: 147 @41484 has 66 MA's), (Start: 167 @41508 has 1 MA's), (Start: 192 @41544 has 2 MA's), (194, 41547), (272, 41649), (278, 41661), (300, 41706), (309, 41727), (324, 41760), (388, 41874), (395, 41886),

Gene: Claus_94 Start: 59528, Stop: 59941, Start Num: 161
Candidate Starts for Claus_94:
(Start: 161 @59528 has 95 MA's), (239, 59639), (271, 59678), (275, 59687), (315, 59765), (370, 59837), (408, 59915), (414, 59933),

Gene: Clautastrophe_90 Start: 59235, Stop: 59642, Start Num: 161
Candidate Starts for Clautastrophe_90:
(Start: 161 @59235 has 95 MA's), (182, 59256), (273, 59385), (275, 59388), (315, 59466), (334, 59502), (398, 59589), (408, 59616),

Gene: Cleatunium_241 Start: 141882, Stop: 142331, Start Num: 151
Candidate Starts for Cleatunium_241:
(Start: 151 @141882 has 44 MA's), (195, 141921), (208, 141939), (231, 141972), (247, 141999), (273, 142032), (317, 142119), (343, 142161), (393, 142260),

Gene: ColdSoup_3 Start: 2875, Stop: 3255, Start Num: 148
Candidate Starts for ColdSoup_3:
(Start: 148 @2875 has 3 MA's), (223, 2959), (247, 2992), (269, 3019), (273, 3031), (275, 3034), (330, 3145), (360, 3181), (388, 3235), (394, 3244),

Gene: Colucci_103 Start: 64172, Stop: 64684, Start Num: 153
Candidate Starts for Colucci_103:
(Start: 153 @64172 has 4 MA's), (225, 64262), (266, 64316), (329, 64463), (333, 64472), (341, 64481), (411, 64610),

Gene: Concombre_255 Start: 144217, Stop: 144666, Start Num: 151
Candidate Starts for Concombre_255:
(Start: 151 @144217 has 44 MA's), (195, 144256), (208, 144274), (223, 144295), (231, 144307), (247, 144334), (273, 144367), (317, 144454),

Gene: Corium_61 Start: 40510, Stop: 40908, Start Num: 187
Candidate Starts for Corium_61:
(Start: 122 @40426 has 2 MA's), (Start: 187 @40510 has 2 MA's), (336, 40753), (363, 40792), (383, 40834),

Gene: Crater_54 Start: 35514, Stop: 35963, Start Num: 160
Candidate Starts for Crater_54:
(Start: 94 @35433 has 1 MA's), (Start: 160 @35514 has 3 MA's), (211, 35586), (281, 35682), (300, 35718), (372, 35847), (426, 35952),

Gene: Crossroads_95 Start: 59527, Stop: 59940, Start Num: 161
Candidate Starts for Crossroads_95:
(Start: 161 @59527 has 95 MA's), (239, 59638), (271, 59677), (275, 59686), (315, 59764), (370, 59836), (408, 59914), (414, 59932),

Gene: Cumberbatch_45 Start: 30201, Stop: 30692, Start Num: 129
Candidate Starts for Cumberbatch_45:
(Start: 129 @30201 has 11 MA's), (309, 30453), (317, 30468),

Gene: Cursive_225 Start: 113007, Stop: 113447, Start Num: 165
Candidate Starts for Cursive_225:

(52, 112812), (61, 112848), (96, 112920), (98, 112926), (Start: 106 @112935 has 4 MA's), (131, 112965), (135, 112971), (Start: 138 @112974 has 4 MA's), (Start: 143 @112980 has 2 MA's), (Start: 165 @113007 has 12 MA's), (241, 113103), (278, 113154), (322, 113247), (367, 113319), (396, 113373), (412, 113406),

Gene: DHan_98 Start: 59751, Stop: 60164, Start Num: 161
Candidate Starts for DHan_98:
(Start: 161 @59751 has 95 MA's), (239, 59862), (271, 59901), (275, 59910), (315, 59988), (370, 60060), (408, 60138), (414, 60156),

Gene: DaRealMyers_43 Start: 31471, Stop: 31983, Start Num: 139
Candidate Starts for DaRealMyers_43:
(Start: 139 @31471 has 5 MA's), (184, 31528), (367, 31804), (395, 31873),

Gene: DanBing_94 Start: 59444, Stop: 59857, Start Num: 161
Candidate Starts for DanBing_94:
(Start: 161 @59444 has 95 MA's), (239, 59555), (271, 59594), (275, 59603), (315, 59681), (370, 59753), (408, 59831), (414, 59849),

Gene: Darko_249 Start: 142196, Stop: 142645, Start Num: 151
Candidate Starts for Darko_249:
(Start: 151 @142196 has 44 MA's), (195, 142235), (208, 142253), (231, 142286), (247, 142313), (273, 142346), (317, 142433), (343, 142475), (393, 142574),

Gene: Darolandstone_43 Start: 33080, Stop: 33595, Start Num: 137
Candidate Starts for Darolandstone_43:
(38, 32861), (74, 32987), (Start: 137 @33080 has 3 MA's), (174, 33119), (326, 33359),

Gene: Daubenski_216 Start: 113389, Stop: 113829, Start Num: 165
Candidate Starts for Daubenski_216:
(51, 113191), (52, 113194), (59, 113218), (61, 113230), (64, 113233), (96, 113302), (98, 113308), (Start: 106 @113317 has 4 MA's), (131, 113347), (135, 113353), (Start: 165 @113389 has 12 MA's), (241, 113485), (278, 113536), (322, 113629), (367, 113701), (396, 113755), (412, 113788),

Gene: DeejaClivia_128 Start: 80469, Stop: 80885, Start Num: 157
Candidate Starts for DeejaClivia_128:
(21, 79992), (Start: 157 @80469 has 25 MA's), (200, 80526), (253, 80589), (296, 80658), (317, 80703), (340, 80742),

Gene: Demodog_256 Start: 144227, Stop: 144676, Start Num: 151
Candidate Starts for Demodog_256:
(Start: 151 @144227 has 44 MA's), (195, 144266), (208, 144284), (223, 144305), (231, 144317), (247, 144344), (273, 144377), (317, 144464),

Gene: Derek_96 Start: 41245, Stop: 41688, Start Num: 147
Candidate Starts for Derek_96:
(Start: 147 @41245 has 66 MA's), (Start: 167 @41269 has 1 MA's), (Start: 192 @41305 has 2 MA's), (194, 41308), (272, 41410), (278, 41422), (300, 41467), (309, 41488), (324, 41521), (388, 41635), (395, 41647),

Gene: Dexes_3 Start: 1113, Stop: 1622, Start Num: 158
Candidate Starts for Dexes_3:
(Start: 158 @1113 has 8 MA's), (296, 1308), (300, 1317), (317, 1353), (428, 1575),

Gene: DirkDirk_88 Start: 56705, Stop: 57115, Start Num: 161
Candidate Starts for DirkDirk_88:
(Start: 161 @56705 has 95 MA's), (Start: 192 @56735 has 2 MA's), (194, 56738), (223, 56783), (275, 56861), (299, 56903), (315, 56939), (345, 56981), (360, 56987), (383, 57035), (404, 57080), (414, 57107),

Gene: DirtMonster_89 Start: 39741, Stop: 40184, Start Num: 147
Candidate Starts for DirtMonster_89:
(Start: 147 @39741 has 66 MA's), (Start: 167 @39765 has 1 MA's), (Start: 192 @39801 has 2 MA's), (194, 39804), (272, 39906), (278, 39918), (300, 39963), (309, 39984), (324, 40017), (388, 40131), (395, 40143),

Gene: DonTron_22 Start: 10785, Stop: 11264, Start Num: 99
Candidate Starts for DonTron_22:
(Start: 99 @10785 has 1 MA's), (200, 10896), (251, 10980), (269, 10998), (273, 11010), (330, 11124),

Gene: Douge_96 Start: 58940, Stop: 59347, Start Num: 161
Candidate Starts for Douge_96:
(Start: 161 @58940 has 95 MA's), (182, 58961), (275, 59093), (324, 59189), (370, 59243), (398, 59294), (408, 59321), (410, 59324), (414, 59339),

Gene: Douzhi_96 Start: 59209, Stop: 59616, Start Num: 161
Candidate Starts for Douzhi_96:
(Start: 161 @59209 has 95 MA's), (182, 59230), (275, 59362), (324, 59458), (370, 59512), (398, 59563), (408, 59590), (410, 59593), (414, 59608),

Gene: DrSeegs_94 Start: 59815, Stop: 60228, Start Num: 161
Candidate Starts for DrSeegs_94:
(Start: 161 @59815 has 95 MA's), (239, 59926), (273, 59971), (275, 59974), (324, 60070), (370, 60124), (408, 60202), (414, 60220),

Gene: DrYang_96 Start: 63051, Stop: 63563, Start Num: 153
Candidate Starts for DrYang_96:
(Start: 153 @63051 has 4 MA's), (225, 63141), (264, 63192), (329, 63342), (333, 63351), (383, 63438),

Gene: DuncansLeg_92 Start: 59254, Stop: 59661, Start Num: 161
Candidate Starts for DuncansLeg_92:
(Start: 161 @59254 has 95 MA's), (182, 59275), (239, 59359), (273, 59404), (275, 59407), (315, 59485), (334, 59521), (398, 59608), (408, 59635),

Gene: DyoEdafos_98 Start: 59531, Stop: 59938, Start Num: 161
Candidate Starts for DyoEdafos_98:
(Start: 161 @59531 has 95 MA's), (182, 59552), (197, 59567), (275, 59684), (294, 59720), (324, 59780), (370, 59834), (398, 59885), (408, 59912), (414, 59930),

Gene: E3_gp199 Start: 129947, Stop: 130468, Start Num: 98
Candidate Starts for E3_gp199:
(98, 129947), (216, 130100), (249, 130163), (274, 130202), (290, 130232), (309, 130265), (320, 130289), (339, 130325), (367, 130367), (406, 130448),

Gene: EMsquaredA_63 Start: 42816, Stop: 43277, Start Num: 114
Candidate Starts for EMsquaredA_63:

(44, 42666), (46, 42669), (70, 42744), (71, 42747), (Start: 114 @42816 has 11 MA's), (Start: 126 @42822 has 1 MA's), (191, 42903), (273, 42999), (330, 43116),

Gene: Eastland_44 Start: 30161, Stop: 30652, Start Num: 129
Candidate Starts for Eastland_44:
(Start: 129 @30161 has 11 MA's), (309, 30413), (317, 30428),

Gene: EdgarPoe_100 Start: 63731, Stop: 64225, Start Num: 161
Candidate Starts for EdgarPoe_100:
(87, 63623), (105, 63662), (Start: 161 @63731 has 95 MA's), (225, 63815), (272, 63887), (293, 63926), (417, 64196),

Gene: Eklok_44 Start: 29960, Stop: 30451, Start Num: 129
Candidate Starts for Eklok_44:
(Start: 129 @29960 has 11 MA's), (309, 30212), (317, 30227),

Gene: EleanorGeorge_65 Start: 42284, Stop: 42745, Start Num: 114
Candidate Starts for EleanorGeorge_65:
(Start: 114 @42284 has 11 MA's), (266, 42458), (279, 42485), (320, 42569), (357, 42608), (424, 42737),

Gene: Ellson_91 Start: 59569, Stop: 59976, Start Num: 161
Candidate Starts for Ellson_91:
(Start: 161 @59569 has 95 MA's), (182, 59590), (239, 59674), (273, 59719), (275, 59722), (315, 59800), (334, 59836), (398, 59923), (408, 59950),

Gene: EmToTheThree_250 Start: 143104, Stop: 143553, Start Num: 151
Candidate Starts for EmToTheThree_250:
(Start: 151 @143104 has 44 MA's), (195, 143143), (208, 143161), (231, 143194), (247, 143221), (273, 143254), (317, 143341), (343, 143383), (393, 143482),

Gene: EmmaElysia_95 Start: 39722, Stop: 40165, Start Num: 147
Candidate Starts for EmmaElysia_95:
(Start: 147 @39722 has 66 MA's), (Start: 167 @39746 has 1 MA's), (Start: 192 @39782 has 2 MA's), (194, 39785), (272, 39887), (278, 39899), (300, 39944), (309, 39965), (324, 39998), (388, 40112), (395, 40124),

Gene: EnalisNailo_59 Start: 42622, Stop: 43077, Start Num: 114
Candidate Starts for EnalisNailo_59:
(49, 42490), (50, 42493), (70, 42550), (71, 42553), (Start: 114 @42622 has 11 MA's), (Start: 126 @42628 has 1 MA's), (Start: 145 @42649 has 3 MA's), (191, 42706), (239, 42763), (272, 42799), (330, 42916), (337, 42925), (380, 42985),

Gene: EnalisNailo_66 Start: 46449, Stop: 46868, Start Num: 144
Candidate Starts for EnalisNailo_66:
(31, 46161), (62, 46323), (95, 46386), (104, 46401), (112, 46410), (Start: 144 @46449 has 6 MA's), (Start: 156 @46461 has 3 MA's), (Start: 183 @46491 has 1 MA's), (256, 46590), (262, 46596), (335, 46734),

Gene: Enceladus_88 Start: 57406, Stop: 57816, Start Num: 161
Candidate Starts for Enceladus_88:
(Start: 161 @57406 has 95 MA's), (Start: 192 @57436 has 2 MA's), (194, 57439), (223, 57484), (275, 57562), (299, 57604), (315, 57640), (345, 57682), (360, 57688), (383, 57736), (404, 57781), (414,

57808),

Gene: Enceladus_63 Start: 44580, Stop: 45038, Start Num: 109
Candidate Starts for Enceladus_63:
(Start: 109 @44580 has 5 MA's), (177, 44652), (251, 44742), (257, 44754), (273, 44775), (305, 44838), (317, 44865),

Gene: Erdmann_251 Start: 143072, Stop: 143521, Start Num: 151
Candidate Starts for Erdmann_251:
(Start: 151 @143072 has 44 MA's), (195, 143111), (208, 143129), (231, 143162), (247, 143189), (273, 143222), (317, 143309), (343, 143351), (393, 143450),

Gene: ErnieJ_243 Start: 139900, Stop: 140349, Start Num: 151
Candidate Starts for ErnieJ_243:
(Start: 151 @139900 has 44 MA's), (195, 139939), (208, 139957), (231, 139990), (247, 140017), (273, 140050), (317, 140137), (343, 140179), (393, 140278),

Gene: Essence_93 Start: 40709, Stop: 41152, Start Num: 147
Candidate Starts for Essence_93:
(Start: 147 @40709 has 66 MA's), (Start: 167 @40733 has 1 MA's), (Start: 192 @40769 has 2 MA's), (194, 40772), (272, 40874), (278, 40886), (300, 40931), (309, 40952), (324, 40985), (388, 41099), (395, 41111),

Gene: Faith1_95 Start: 59452, Stop: 59865, Start Num: 161
Candidate Starts for Faith1_95:
(Start: 161 @59452 has 95 MA's), (239, 59563), (273, 59608), (275, 59611), (324, 59707), (370, 59761), (408, 59839), (414, 59857),

Gene: Faja_72 Start: 38688, Stop: 39140, Start Num: 181
Candidate Starts for Faja_72:
(65, 38511), (Start: 156 @38652 has 3 MA's), (Start: 161 @38658 has 95 MA's), (Start: 181 @38688 has 3 MA's), (407, 39084),

Gene: FarmResident_97 Start: 59091, Stop: 59498, Start Num: 161
Candidate Starts for FarmResident_97:
(Start: 161 @59091 has 95 MA's), (182, 59112), (197, 59127), (275, 59244), (324, 59340), (370, 59394), (398, 59445), (408, 59472), (410, 59475), (414, 59490),

Gene: Farrylious_97 Start: 72578, Stop: 72991, Start Num: 186
Candidate Starts for Farrylious_97:
(Start: 122 @72503 has 2 MA's), (136, 72521), (Start: 186 @72578 has 2 MA's), (247, 72674), (269, 72701), (273, 72713), (275, 72716), (302, 72764),

Gene: Farrylious_104 Start: 75552, Stop: 76025, Start Num: 142
Candidate Starts for Farrylious_104:
(Start: 142 @75552 has 4 MA's), (188, 75609), (211, 75642), (292, 75750), (305, 75774), (326, 75822), (377, 75885), (383, 75897), (402, 75927), (425, 75984),

Gene: Finch_155 Start: 99620, Stop: 100087, Start Num: 120
Candidate Starts for Finch_155:
(75, 99545), (Start: 120 @99620 has 1 MA's), (227, 99755), (273, 99824), (283, 99845), (296, 99869), (356, 99977), (368, 99995), (397, 100046),

Gene: Finch_154 Start: 99144, Stop: 99620, Start Num: 125
Candidate Starts for Finch_154:
(Start: 125 @99144 has 1 MA's), (Start: 167 @99192 has 1 MA's), (283, 99372), (325, 99462), (334, 99477), (400, 99588),

Gene: Finch_57 Start: 47485, Stop: 47922, Start Num: 140
Candidate Starts for Finch_57:
(Start: 140 @47485 has 2 MA's), (150, 47497), (Start: 185 @47542 has 2 MA's), (279, 47668), (296, 47695), (305, 47713), (340, 47779), (377, 47824), (410, 47881), (412, 47884),

Gene: Finch_82 Start: 71334, Stop: 71777, Start Num: 141
Candidate Starts for Finch_82:
(89, 71253), (105, 71289), (Start: 141 @71334 has 1 MA's), (Start: 183 @71382 has 1 MA's), (272, 71505), (273, 71508), (302, 71559), (331, 71625), (352, 71655),

Gene: Finch_186 Start: 111122, Stop: 111628, Start Num: 101
Candidate Starts for Finch_186:
(Start: 101 @111122 has 1 MA's), (217, 111254), (259, 111326), (271, 111341), (275, 111350),

Gene: Finemlucis_96 Start: 60566, Stop: 60979, Start Num: 161
Candidate Starts for Finemlucis_96:
(Start: 161 @60566 has 95 MA's), (239, 60677), (271, 60716), (275, 60725), (315, 60803), (370, 60875), (408, 60953), (414, 60971),

Gene: Finnry_92 Start: 59588, Stop: 59995, Start Num: 161
Candidate Starts for Finnry_92:
(Start: 161 @59588 has 95 MA's), (182, 59609), (273, 59738), (275, 59741), (315, 59819), (334, 59855), (398, 59942), (408, 59969),

Gene: Firehouse51_66 Start: 45330, Stop: 45791, Start Num: 114
Candidate Starts for Firehouse51_66:
(Start: 114 @45330 has 11 MA's), (266, 45504), (279, 45531), (320, 45615), (357, 45654), (424, 45783),

Gene: Fixie_88 Start: 39355, Stop: 39798, Start Num: 147
Candidate Starts for Fixie_88:
(Start: 147 @39355 has 66 MA's), (Start: 167 @39379 has 1 MA's), (Start: 192 @39415 has 2 MA's), (194, 39418), (272, 39520), (278, 39532), (300, 39577), (309, 39598), (324, 39631), (388, 39745), (395, 39757),

Gene: Fixie_242 Start: 143337, Stop: 143786, Start Num: 151
Candidate Starts for Fixie_242:
(Start: 151 @143337 has 44 MA's), (195, 143376), (208, 143394), (231, 143427), (247, 143454), (273, 143487), (317, 143574), (343, 143616), (393, 143715),

Gene: Floral_64 Start: 44701, Stop: 45162, Start Num: 114
Candidate Starts for Floral_64:
(44, 44551), (46, 44554), (70, 44629), (71, 44632), (Start: 114 @44701 has 11 MA's), (Start: 126 @44707 has 1 MA's), (191, 44788), (273, 44884), (330, 45001),

Gene: Fludd_142 Start: 82309, Stop: 82725, Start Num: 157
Candidate Starts for Fludd_142:

(21, 81832), (Start: 157 @82309 has 25 MA's), (200, 82366), (253, 82429), (296, 82498), (317, 82543), (340, 82582),

Gene: Fludd_96 Start: 39595, Stop: 40038, Start Num: 147
Candidate Starts for Fludd_96:
(Start: 147 @39595 has 66 MA's), (Start: 167 @39619 has 1 MA's), (Start: 192 @39655 has 2 MA's), (194, 39658), (272, 39760), (278, 39772), (300, 39817), (309, 39838), (324, 39871), (388, 39985), (395, 39997),

Gene: Footloose_54 Start: 31404, Stop: 31829, Start Num: 161
Candidate Starts for Footloose_54:
(54, 31218), (76, 31281), (Start: 161 @31404 has 95 MA's), (253, 31515), (263, 31530), (342, 31677), (345, 31680), (427, 31818),

Gene: Forrest_237 Start: 114096, Stop: 114590, Start Num: 167
Candidate Starts for Forrest_237:
(Start: 167 @114096 has 1 MA's), (179, 114117), (200, 114144), (252, 114231), (288, 114303), (317, 114378), (419, 114585),

Gene: Fosterous_16 Start: 14357, Stop: 14803, Start Num: 159
Candidate Starts for Fosterous_16:
(Start: 142 @14336 has 4 MA's), (Start: 153 @14348 has 4 MA's), (Start: 159 @14357 has 14 MA's), (Start: 187 @14387 has 2 MA's), (Start: 193 @14396 has 2 MA's), (300, 14567), (309, 14600), (330, 14642), (341, 14663), (371, 14708), (392, 14744),

Gene: FoxtrotP1_248 Start: 143658, Stop: 144107, Start Num: 151
Candidate Starts for FoxtrotP1_248:
(Start: 151 @143658 has 44 MA's), (195, 143697), (208, 143715), (231, 143748), (247, 143775), (273, 143808), (317, 143895), (343, 143937), (393, 144036),

Gene: Fransoyer_69 Start: 49557, Stop: 49093, Start Num: 145
Candidate Starts for Fransoyer_69:
(Start: 101 @49611 has 1 MA's), (Start: 145 @49557 has 3 MA's), (240, 49434), (322, 49263), (331, 49248), (334, 49242),

Gene: FrumpyGal_45 Start: 30161, Stop: 30652, Start Num: 129
Candidate Starts for FrumpyGal_45:
(Start: 129 @30161 has 11 MA's), (309, 30413), (317, 30428),

Gene: FudgeTart_245 Start: 142162, Stop: 142611, Start Num: 151
Candidate Starts for FudgeTart_245:
(Start: 151 @142162 has 44 MA's), (195, 142201), (208, 142219), (231, 142252), (247, 142279), (273, 142312), (317, 142399), (343, 142441), (393, 142540),

Gene: GMA3_25 Start: 35593, Stop: 36075, Start Num: 133
Candidate Starts for GMA3_25:
(133, 35593), (196, 35656), (246, 35722), (255, 35743), (272, 35764), (276, 35773), (297, 35809), (416, 36034),

Gene: GMA6_35 Start: 29073, Stop: 29516, Start Num: 161
Candidate Starts for GMA6_35:
(149, 29058), (Start: 161 @29073 has 95 MA's), (168, 29082), (196, 29121), (209, 29145), (285, 29274), (293, 29286), (295, 29289), (300, 29301), (370, 29424),

Gene: GMA6_79 Start: 60811, Stop: 61245, Start Num: 127
Candidate Starts for GMA6_79:
(Start: 127 @60811 has 1 MA's), (Start: 161 @60850 has 95 MA's), (197, 60892), (245, 60946), (263, 60967), (307, 61051), (317, 61072),

Gene: Gabriela_95 Start: 58798, Stop: 59211, Start Num: 161
Candidate Starts for Gabriela_95:
(Start: 161 @58798 has 95 MA's), (239, 58909), (273, 58954), (275, 58957), (324, 59053), (370, 59107), (408, 59185), (414, 59203),

Gene: GageAP_46 Start: 34874, Stop: 34401, Start Num: 185
Candidate Starts for GageAP_46:
(Start: 185 @34874 has 2 MA's), (197, 34859), (233, 34787), (243, 34772), (277, 34709), (296, 34670), (320, 34616), (344, 34574), (367, 34538), (391, 34484),

Gene: Gaia_17 Start: 16945, Stop: 17430, Start Num: 144
Candidate Starts for Gaia_17:
(Start: 144 @16945 has 6 MA's), (Start: 152 @16954 has 3 MA's), (291, 17170), (308, 17209), (313, 17218), (338, 17269), (393, 17368),

Gene: Galadriel_20 Start: 14216, Stop: 14662, Start Num: 159
Candidate Starts for Galadriel_20:
(Start: 142 @14195 has 4 MA's), (Start: 153 @14207 has 4 MA's), (Start: 159 @14216 has 14 MA's), (Start: 187 @14246 has 2 MA's), (Start: 193 @14255 has 2 MA's), (300, 14426), (309, 14459), (330, 14501), (341, 14522), (371, 14567), (392, 14603),

Gene: Gamgam_96 Start: 40155, Stop: 40598, Start Num: 147
Candidate Starts for Gamgam_96:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: Gardann_95 Start: 59299, Stop: 59712, Start Num: 161
Candidate Starts for Gardann_95:
(Start: 161 @59299 has 95 MA's), (239, 59410), (271, 59449), (275, 59458), (315, 59536), (370, 59608), (408, 59686), (414, 59704),

Gene: Geodirt_33 Start: 32468, Stop: 31986, Start Num: 134
Candidate Starts for Geodirt_33:
(53, 32606), (79, 32552), (82, 32549), (111, 32495), (Start: 134 @32468 has 4 MA's), (267, 32285), (273, 32273), (362, 32111), (383, 32066),

Gene: Ghost_95 Start: 40155, Stop: 40598, Start Num: 147
Candidate Starts for Ghost_95:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: Gizmo_255 Start: 144989, Stop: 145438, Start Num: 151
Candidate Starts for Gizmo_255:
(Start: 151 @144989 has 44 MA's), (195, 145028), (208, 145046), (231, 145079), (247, 145106), (273, 145139), (317, 145226), (343, 145268), (393, 145367),

Gene: Gizmo_126 Start: 66298, Stop: 65843, Start Num: 159
Candidate Starts for Gizmo_126:
(Start: 159 @66298 has 14 MA's), (228, 66211), (251, 66175), (272, 66139), (293, 66100), (317, 66049),

Gene: Globfish_58 Start: 33704, Stop: 34201, Start Num: 121
Candidate Starts for Globfish_58:
(69, 33614), (86, 33644), (111, 33692), (Start: 121 @33704 has 1 MA's), (Start: 124 @33707 has 3 MA's), (Start: 192 @33788 has 2 MA's), (212, 33818), (236, 33851), (264, 33896), (275, 33917), (302, 33965), (351, 34058),

Gene: Globfish_84 Start: 46529, Stop: 47017, Start Num: 126
Candidate Starts for Globfish_84:
(Start: 108 @46508 has 1 MA's), (Start: 126 @46529 has 1 MA's), (179, 46586), (195, 46604), (223, 46646), (269, 46721), (419, 47006),

Gene: GlutenPhree_97 Start: 40155, Stop: 40598, Start Num: 147
Candidate Starts for GlutenPhree_97:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: Gonephishing_122 Start: 66828, Stop: 67358, Start Num: 132
Candidate Starts for Gonephishing_122:
(Start: 132 @66828 has 2 MA's), (202, 66921), (207, 66930), (213, 66942), (237, 66981), (256, 67014), (299, 67089), (310, 67116), (316, 67128), (323, 67146), (327, 67152), (372, 67230),

Gene: Grayson_217 Start: 108140, Stop: 108661, Start Num: 145
Candidate Starts for Grayson_217:
(Start: 123 @108113 has 2 MA's), (128, 108119), (Start: 145 @108140 has 3 MA's), (214, 108236), (270, 108338), (280, 108356), (284, 108365), (286, 108368), (389, 108605),

Gene: Grungle_83 Start: 37537, Stop: 37980, Start Num: 147
Candidate Starts for Grungle_83:
(Start: 147 @37537 has 66 MA's), (Start: 167 @37561 has 1 MA's), (Start: 192 @37597 has 2 MA's), (194, 37600), (272, 37702), (278, 37714), (300, 37759), (309, 37780), (324, 37813), (388, 37927), (395, 37939),

Gene: Gsput1_40 Start: 30337, Stop: 30849, Start Num: 96
Candidate Starts for Gsput1_40:
(34, 30127), (36, 30154), (45, 30202), (58, 30250), (67, 30277), (96, 30337), (Start: 101 @30346 has 1 MA's), (131, 30382), (190, 30451), (205, 30475), (244, 30523), (261, 30550), (281, 30580), (293, 30601), (295, 30604), (302, 30616), (399, 30802),

Gene: GuuelaD_92 Start: 59411, Stop: 59824, Start Num: 161
Candidate Starts for GuuelaD_92:
(Start: 161 @59411 has 95 MA's), (239, 59522), (271, 59561), (275, 59570), (315, 59648), (370, 59720), (408, 59798), (414, 59816),

Gene: Guwapp_95 Start: 40250, Stop: 40693, Start Num: 147
Candidate Starts for Guwapp_95:

(Start: 147 @40250 has 66 MA's), (Start: 167 @40274 has 1 MA's), (Start: 192 @40310 has 2 MA's), (194, 40313), (272, 40415), (278, 40427), (300, 40472), (309, 40493), (324, 40526), (388, 40640), (395, 40652),

Gene: Gwendoluna_12 Start: 7666, Stop: 8121, Start Num: 138
Candidate Starts for Gwendoluna_12:
(Start: 138 @7666 has 4 MA's), (173, 7699), (232, 7786), (271, 7846), (293, 7888), (330, 7966), (334, 7975), (384, 8056), (405, 8095),

Gene: Gyzlar_3 Start: 1073, Stop: 1582, Start Num: 158
Candidate Starts for Gyzlar_3:
(Start: 158 @1073 has 8 MA's), (296, 1268), (300, 1277), (317, 1313), (428, 1535),

Gene: HFrancette_45 Start: 30939, Stop: 31430, Start Num: 129
Candidate Starts for HFrancette_45:
(Start: 129 @30939 has 11 MA's), (309, 31191), (317, 31206),

Gene: Hafay_96 Start: 59523, Stop: 59936, Start Num: 161
Candidate Starts for Hafay_96:
(Start: 161 @59523 has 95 MA's), (239, 59634), (271, 59673), (275, 59682), (315, 59760), (370, 59832), (408, 59910), (414, 59928),

Gene: Halena_88 Start: 56292, Stop: 56702, Start Num: 161
Candidate Starts for Halena_88:
(Start: 161 @56292 has 95 MA's), (Start: 192 @56322 has 2 MA's), (194, 56325), (223, 56370), (275, 56448), (299, 56490), (315, 56526), (345, 56568), (360, 56574), (383, 56622), (404, 56667), (414, 56694),

Gene: Hank144_56 Start: 39762, Stop: 39295, Start Num: 151
Candidate Starts for Hank144_56:
(Start: 151 @39762 has 44 MA's), (206, 39693), (255, 39615), (269, 39609), (293, 39561), (295, 39558), (307, 39531), (418, 39306),

Gene: Hestia_63 Start: 34911, Stop: 35363, Start Num: 181
Candidate Starts for Hestia_63:
(65, 34734), (Start: 156 @34875 has 3 MA's), (Start: 161 @34881 has 95 MA's), (Start: 181 @34911 has 3 MA's), (407, 35307),

Gene: Hiraya_94 Start: 59377, Stop: 59790, Start Num: 161
Candidate Starts for Hiraya_94:
(Start: 161 @59377 has 95 MA's), (239, 59488), (271, 59527), (275, 59536), (315, 59614), (370, 59686), (408, 59764), (414, 59782),

Gene: HumptyDumpty_100 Start: 63534, Stop: 64028, Start Num: 161
Candidate Starts for HumptyDumpty_100:
(87, 63426), (105, 63465), (Start: 161 @63534 has 95 MA's), (225, 63618), (272, 63690), (293, 63729), (417, 63999),

Gene: HyRo_132 Start: 82234, Stop: 82650, Start Num: 157
Candidate Starts for HyRo_132:
(21, 81757), (Start: 157 @82234 has 25 MA's), (200, 82291), (253, 82354), (296, 82423), (317, 82468), (340, 82507),

Gene: Hydra_4 Start: 1342, Stop: 1785, Start Num: 163
Candidate Starts for Hydra_4:
(Start: 163 @1342 has 2 MA's), (293, 1525), (309, 1561), (320, 1585), (350, 1630), (375, 1672),

Gene: Ididsumtinwong_46 Start: 30014, Stop: 30484, Start Num: 152
Candidate Starts for Ididsumtinwong_46:
(Start: 122 @29978 has 2 MA's), (Start: 152 @30014 has 3 MA's), (320, 30272), (330, 30290), (348, 30311),

Gene: Ignacio_44 Start: 30842, Stop: 31333, Start Num: 129
Candidate Starts for Ignacio_44:
(Start: 129 @30842 has 11 MA's), (309, 31094), (317, 31109),

Gene: InigoMontoya_97 Start: 40116, Stop: 40559, Start Num: 147
Candidate Starts for InigoMontoya_97:
(Start: 147 @40116 has 66 MA's), (Start: 167 @40140 has 1 MA's), (Start: 192 @40176 has 2 MA's), (194, 40179), (272, 40281), (278, 40293), (300, 40338), (309, 40359), (324, 40392), (388, 40506), (395, 40518),

Gene: Iota_90 Start: 39896, Stop: 40339, Start Num: 147
Candidate Starts for Iota_90:
(Start: 147 @39896 has 66 MA's), (Start: 167 @39920 has 1 MA's), (Start: 192 @39956 has 2 MA's), (194, 39959), (272, 40061), (278, 40073), (300, 40118), (309, 40139), (324, 40172), (388, 40286), (395, 40298),

Gene: IrishSherpFalk_88 Start: 51234, Stop: 51749, Start Num: 116
Candidate Starts for IrishSherpFalk_88:
(Start: 116 @51234 has 1 MA's), (Start: 119 @51237 has 2 MA's), (170, 51297), (283, 51474), (311, 51534), (361, 51621), (393, 51687), (408, 51720),

Gene: Issimir_243 Start: 142261, Stop: 142710, Start Num: 151
Candidate Starts for Issimir_243:
(Start: 151 @142261 has 44 MA's), (195, 142300), (208, 142318), (231, 142351), (247, 142378), (273, 142411), (317, 142498), (343, 142540), (393, 142639),

Gene: Itos_95 Start: 58358, Stop: 58771, Start Num: 161
Candidate Starts for Itos_95:
(Start: 161 @58358 has 95 MA's), (239, 58469), (273, 58514), (275, 58517), (324, 58613), (370, 58667), (408, 58745), (414, 58763),

Gene: JPickles_247 Start: 141311, Stop: 141760, Start Num: 151
Candidate Starts for JPickles_247:
(Start: 151 @141311 has 44 MA's), (195, 141350), (208, 141368), (231, 141401), (247, 141428), (273, 141461), (317, 141548), (343, 141590), (393, 141689),

Gene: JPickles_94 Start: 39386, Stop: 39829, Start Num: 147
Candidate Starts for JPickles_94:
(Start: 147 @39386 has 66 MA's), (Start: 167 @39410 has 1 MA's), (Start: 192 @39446 has 2 MA's), (194, 39449), (272, 39551), (278, 39563), (300, 39608), (309, 39629), (324, 39662), (388, 39776), (395, 39788),

Gene: JaNo_99 Start: 63505, Stop: 63999, Start Num: 161
Candidate Starts for JaNo_99:

(87, 63397), (105, 63436), (Start: 161 @63505 has 95 MA's), (225, 63589), (272, 63661), (293, 63700), (417, 63970),

Gene: Jalammah_18 Start: 10634, Stop: 11050, Start Num: 185
Candidate Starts for Jalammah_18:
(97, 10535), (Start: 106 @10544 has 4 MA's), (Start: 151 @10595 has 44 MA's), (Start: 185 @10634 has 2 MA's), (272, 10763), (273, 10766), (275, 10769), (293, 10802), (297, 10808), (314, 10844), (335, 10892), (354, 10913),

Gene: Janiyra_253 Start: 142848, Stop: 143297, Start Num: 151
Candidate Starts for Janiyra_253:
(Start: 151 @142848 has 44 MA's), (195, 142887), (208, 142905), (231, 142938), (247, 142965), (273, 142998), (317, 143085), (343, 143127), (393, 143226),

Gene: Jaygup_96 Start: 40911, Stop: 41354, Start Num: 147
Candidate Starts for Jaygup_96:
(Start: 147 @40911 has 66 MA's), (Start: 167 @40935 has 1 MA's), (Start: 192 @40971 has 2 MA's), (194, 40974), (272, 41076), (278, 41088), (300, 41133), (309, 41154), (324, 41187), (388, 41301), (395, 41313),

Gene: Jedediah_99 Start: 41411, Stop: 41854, Start Num: 147
Candidate Starts for Jedediah_99:
(Start: 147 @41411 has 66 MA's), (Start: 167 @41435 has 1 MA's), (Start: 192 @41471 has 2 MA's), (194, 41474), (272, 41576), (278, 41588), (300, 41633), (309, 41654), (324, 41687), (388, 41801), (395, 41813),

Gene: Jemmno_96 Start: 40861, Stop: 41304, Start Num: 147
Candidate Starts for Jemmno_96:
(Start: 147 @40861 has 66 MA's), (Start: 167 @40885 has 1 MA's), (Start: 192 @40921 has 2 MA's), (194, 40924), (272, 41026), (278, 41038), (300, 41083), (309, 41104), (324, 41137), (388, 41251), (395, 41263),

Gene: Jessibeth14_140 Start: 83080, Stop: 83496, Start Num: 157
Candidate Starts for Jessibeth14_140:
(21, 82603), (Start: 157 @83080 has 25 MA's), (200, 83137), (253, 83200), (296, 83269), (317, 83314), (340, 83353),

Gene: JigglyPuff_102 Start: 43130, Stop: 43513, Start Num: 192
Candidate Starts for JigglyPuff_102:
(Start: 147 @43070 has 66 MA's), (Start: 167 @43094 has 1 MA's), (Start: 192 @43130 has 2 MA's), (194, 43133), (272, 43235), (278, 43247), (300, 43292), (309, 43313), (324, 43346), (388, 43460), (395, 43472),

Gene: Jobypre_92 Start: 59235, Stop: 59642, Start Num: 161
Candidate Starts for Jobypre_92:
(Start: 161 @59235 has 95 MA's), (182, 59256), (273, 59385), (275, 59388), (315, 59466), (334, 59502), (398, 59589), (408, 59616),

Gene: JoeDirt_92 Start: 57967, Stop: 58377, Start Num: 161
Candidate Starts for JoeDirt_92:
(Start: 161 @57967 has 95 MA's), (Start: 192 @57997 has 2 MA's), (194, 58000), (223, 58045), (275, 58123), (299, 58165), (315, 58201), (345, 58243), (360, 58249), (383, 58297), (404, 58342), (414, 58369),

Gene: JoeDirt_64 Start: 45013, Stop: 45471, Start Num: 109
Candidate Starts for JoeDirt_64:
(Start: 109 @45013 has 5 MA's), (177, 45085), (251, 45175), (257, 45187), (273, 45208), (305, 45271), (317, 45298),

Gene: Jollymon_3 Start: 2875, Stop: 3255, Start Num: 148
Candidate Starts for Jollymon_3:
(Start: 148 @2875 has 3 MA's), (223, 2959), (247, 2992), (269, 3019), (273, 3031), (275, 3034), (330, 3145), (360, 3181), (388, 3235), (394, 3244),

Gene: JonJames_26 Start: 9049, Stop: 9558, Start Num: 103
Candidate Starts for JonJames_26:
(Start: 103 @9049 has 1 MA's), (Start: 151 @9103 has 44 MA's), (Start: 201 @9160 has 1 MA's), (222, 9181), (225, 9184), (269, 9256), (273, 9268), (293, 9304), (331, 9385), (335, 9394), (383, 9472), (415, 9544),

Gene: Jubie_91 Start: 59370, Stop: 59777, Start Num: 161
Candidate Starts for Jubie_91:
(Start: 161 @59370 has 95 MA's), (182, 59391), (273, 59520), (275, 59523), (315, 59601), (334, 59637), (398, 59724), (408, 59751),

Gene: JulietS_89 Start: 38418, Stop: 38861, Start Num: 147
Candidate Starts for JulietS_89:
(Start: 147 @38418 has 66 MA's), (Start: 167 @38442 has 1 MA's), (Start: 192 @38478 has 2 MA's), (194, 38481), (272, 38583), (278, 38595), (300, 38640), (309, 38661), (324, 38694), (388, 38808), (395, 38820),

Gene: JustHall_92 Start: 40063, Stop: 40506, Start Num: 147
Candidate Starts for JustHall_92:
(Start: 147 @40063 has 66 MA's), (Start: 167 @40087 has 1 MA's), (Start: 192 @40123 has 2 MA's), (194, 40126), (272, 40228), (278, 40240), (300, 40285), (309, 40306), (324, 40339), (388, 40453), (395, 40465),

Gene: KBurrousTX_96 Start: 64281, Stop: 64742, Start Num: 161
Candidate Starts for KBurrousTX_96:
(Start: 161 @64281 has 95 MA's), (174, 64299), (258, 64410), (304, 64503), (310, 64521), (318, 64536), (347, 64584),

Gene: Kabloowy_96 Start: 53150, Stop: 53521, Start Num: 229
Candidate Starts for Kabloowy_96:
(136, 53018), (191, 53090), (208, 53117), (220, 53138), (Start: 229 @53150 has 1 MA's), (235, 53162), (265, 53204), (271, 53219), (300, 53279), (330, 53345), (365, 53411),

Gene: Kabreeze_100 Start: 63591, Stop: 64085, Start Num: 161
Candidate Starts for Kabreeze_100:
(87, 63483), (105, 63522), (Start: 161 @63591 has 95 MA's), (225, 63675), (272, 63747), (293, 63786), (417, 64056),

Gene: Kahlid_94 Start: 59217, Stop: 59630, Start Num: 161
Candidate Starts for Kahlid_94:
(Start: 161 @59217 has 95 MA's), (239, 59328), (271, 59367), (275, 59376), (315, 59454), (370, 59526), (408, 59604), (414, 59622),

Gene: Kboogie_99 Start: 39707, Stop: 40150, Start Num: 147
Candidate Starts for Kboogie_99:
(Start: 147 @39707 has 66 MA's), (Start: 167 @39731 has 1 MA's), (Start: 192 @39767 has 2 MA's), (194, 39770), (272, 39872), (278, 39884), (300, 39929), (309, 39950), (324, 39983), (388, 40097), (395, 40109),

Gene: Keitabear_20 Start: 16560, Stop: 17006, Start Num: 159
Candidate Starts for Keitabear_20:
(Start: 142 @16539 has 4 MA's), (Start: 153 @16551 has 4 MA's), (Start: 159 @16560 has 14 MA's), (Start: 187 @16590 has 2 MA's), (Start: 193 @16599 has 2 MA's), (300, 16770), (309, 16803), (330, 16845), (341, 16866), (371, 16911), (392, 16947),

Gene: Kingsolomon_90 Start: 59344, Stop: 59751, Start Num: 161
Candidate Starts for Kingsolomon_90:
(Start: 161 @59344 has 95 MA's), (182, 59365), (273, 59494), (275, 59497), (315, 59575), (334, 59611), (398, 59698), (408, 59725),

Gene: KirDoubleO7_90 Start: 59256, Stop: 59663, Start Num: 161
Candidate Starts for KirDoubleO7_90:
(Start: 161 @59256 has 95 MA's), (182, 59277), (239, 59361), (273, 59406), (275, 59409), (315, 59487), (334, 59523), (398, 59610), (408, 59637),

Gene: Koguma_92 Start: 38638, Stop: 39081, Start Num: 147
Candidate Starts for Koguma_92:
(Start: 147 @38638 has 66 MA's), (Start: 167 @38662 has 1 MA's), (Start: 192 @38698 has 2 MA's), (194, 38701), (272, 38803), (278, 38815), (300, 38860), (309, 38881), (324, 38914), (388, 39028), (395, 39040),

Gene: Koguma_138 Start: 80718, Stop: 81134, Start Num: 157
Candidate Starts for Koguma_138:
(21, 80241), (Start: 157 @80718 has 25 MA's), (200, 80775), (253, 80838), (296, 80907), (317, 80952), (340, 80991),

Gene: Kroos_19 Start: 14665, Stop: 15102, Start Num: 187
Candidate Starts for Kroos_19:
(Start: 153 @14620 has 4 MA's), (Start: 159 @14629 has 14 MA's), (Start: 187 @14665 has 2 MA's), (219, 14716), (264, 14782), (330, 14926), (341, 14947),

Gene: Kropertea_92 Start: 58811, Stop: 59221, Start Num: 161
Candidate Starts for Kropertea_92:
(Start: 161 @58811 has 95 MA's), (182, 58832), (197, 58847), (275, 58967), (294, 59003), (324, 59063), (370, 59117), (398, 59168), (408, 59195), (414, 59213),

Gene: Krypton555_94 Start: 59747, Stop: 60154, Start Num: 161
Candidate Starts for Krypton555_94:
(Start: 161 @59747 has 95 MA's), (182, 59768), (239, 59852), (273, 59897), (275, 59900), (315, 59978), (334, 60014), (398, 60101), (408, 60128),

Gene: Kwobi_20 Start: 14596, Stop: 15078, Start Num: 153
Candidate Starts for Kwobi_20:
(Start: 153 @14596 has 4 MA's), (Start: 159 @14605 has 14 MA's), (Start: 187 @14641 has 2 MA's), (219, 14692), (264, 14758), (330, 14902), (341, 14923),

Gene: LRRHood_134 Start: 82526, Stop: 82942, Start Num: 157
Candidate Starts for LRRHood_134:
(21, 82049), (Start: 157 @82526 has 25 MA's), (200, 82583), (253, 82646), (296, 82715), (317, 82760), (340, 82799),

Gene: LRRHood_90 Start: 40457, Stop: 40900, Start Num: 147
Candidate Starts for LRRHood_90:
(Start: 147 @40457 has 66 MA's), (Start: 167 @40481 has 1 MA's), (Start: 192 @40517 has 2 MA's), (194, 40520), (272, 40622), (278, 40634), (300, 40679), (309, 40700), (324, 40733), (388, 40847), (395, 40859),

Gene: Larnav_222 Start: 113173, Stop: 113613, Start Num: 165
Candidate Starts for Larnav_222:
(52, 112978), (61, 113014), (96, 113086), (98, 113092), (Start: 106 @113101 has 4 MA's), (131, 113131), (135, 113137), (Start: 138 @113140 has 4 MA's), (Start: 143 @113146 has 2 MA's), (Start: 165 @113173 has 12 MA's), (241, 113269), (278, 113320), (322, 113413), (367, 113485), (396, 113539), (412, 113572),

Gene: Lasker_70 Start: 38250, Stop: 38732, Start Num: 161
Candidate Starts for Lasker_70:
(65, 38103), (Start: 156 @38244 has 3 MA's), (Start: 161 @38250 has 95 MA's), (Start: 181 @38280 has 3 MA's), (407, 38676),

Gene: Latch_96 Start: 40155, Stop: 40598, Start Num: 147
Candidate Starts for Latch_96:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: LeBron_90 Start: 56599, Stop: 57009, Start Num: 161
Candidate Starts for LeBron_90:
(Start: 161 @56599 has 95 MA's), (Start: 192 @56629 has 2 MA's), (194, 56632), (223, 56677), (275, 56755), (299, 56797), (315, 56833), (345, 56875), (360, 56881), (383, 56929), (404, 56974), (414, 57001),

Gene: Lee7_254 Start: 144611, Stop: 145060, Start Num: 151
Candidate Starts for Lee7_254:
(Start: 151 @144611 has 44 MA's), (195, 144650), (208, 144668), (231, 144701), (247, 144728), (273, 144761), (317, 144848), (343, 144890), (393, 144989),

Gene: Lennon_20 Start: 15643, Stop: 16110, Start Num: 142
Candidate Starts for Lennon_20:
(Start: 142 @15643 has 4 MA's), (Start: 153 @15655 has 4 MA's), (Start: 159 @15664 has 14 MA's), (Start: 187 @15694 has 2 MA's), (Start: 193 @15703 has 2 MA's), (300, 15874), (309, 15907), (330, 15949), (341, 15970), (371, 16015), (392, 16051),

Gene: Lewan_96 Start: 59451, Stop: 59864, Start Num: 161
Candidate Starts for Lewan_96:
(Start: 161 @59451 has 95 MA's), (239, 59562), (271, 59601), (275, 59610), (315, 59688), (370, 59760), (408, 59838), (414, 59856),

Gene: Licorice_4 Start: 1283, Stop: 1792, Start Num: 158

Candidate Starts for Licorice_4:
(Start: 158 @1283 has 8 MA's), (296, 1478), (300, 1487), (317, 1523), (428, 1745),

Gene: LifeSavor_95 Start: 40843, Stop: 41286, Start Num: 147
Candidate Starts for LifeSavor_95:
(Start: 147 @40843 has 66 MA's), (Start: 167 @40867 has 1 MA's), (Start: 192 @40903 has 2 MA's), (194, 40906), (272, 41008), (278, 41020), (300, 41065), (309, 41086), (324, 41119), (388, 41233), (395, 41245),

Gene: LilDestine_93 Start: 59128, Stop: 59541, Start Num: 161
Candidate Starts for LilDestine_93:
(Start: 161 @59128 has 95 MA's), (239, 59239), (271, 59278), (275, 59287), (315, 59365), (370, 59437), (408, 59515), (414, 59533),

Gene: Lilas_67 Start: 47987, Stop: 48406, Start Num: 144
Candidate Starts for Lilas_67:
(31, 47699), (62, 47861), (95, 47924), (104, 47939), (112, 47948), (Start: 144 @47987 has 6 MA's), (Start: 156 @47999 has 3 MA's), (Start: 183 @48029 has 1 MA's), (256, 48128), (262, 48134), (335, 48272),

Gene: Linus_100 Start: 64039, Stop: 64533, Start Num: 161
Candidate Starts for Linus_100:
(87, 63931), (105, 63970), (Start: 161 @64039 has 95 MA's), (225, 64123), (272, 64195), (293, 64234), (417, 64504),

Gene: Lishka_42 Start: 27718, Stop: 28179, Start Num: 152
Candidate Starts for Lishka_42:
(Start: 152 @27718 has 3 MA's), (309, 27982), (319, 28003), (368, 28066),

Gene: LiyuLake_91 Start: 59329, Stop: 59736, Start Num: 161
Candidate Starts for LiyuLake_91:
(Start: 161 @59329 has 95 MA's), (182, 59350), (239, 59434), (273, 59479), (275, 59482), (315, 59560), (334, 59596), (398, 59683), (408, 59710),

Gene: Loadrie_94 Start: 59619, Stop: 60032, Start Num: 161
Candidate Starts for Loadrie_94:
(Start: 161 @59619 has 95 MA's), (239, 59730), (271, 59769), (275, 59778), (315, 59856), (370, 59928), (408, 60006), (414, 60024),

Gene: LolaVinca_141 Start: 83494, Stop: 83910, Start Num: 157
Candidate Starts for LolaVinca_141:
(21, 83017), (Start: 157 @83494 has 25 MA's), (200, 83551), (253, 83614), (296, 83683), (317, 83728), (340, 83767),

Gene: Lolly9_91 Start: 59420, Stop: 59827, Start Num: 161
Candidate Starts for Lolly9_91:
(Start: 161 @59420 has 95 MA's), (182, 59441), (239, 59525), (273, 59570), (315, 59651), (334, 59687), (398, 59774), (408, 59801),

Gene: LordFarquaad_67 Start: 43212, Stop: 43631, Start Num: 144
Candidate Starts for LordFarquaad_67:
(62, 43086), (88, 43128), (95, 43149), (112, 43173), (Start: 144 @43212 has 6 MA's), (Start: 156 @43224 has 3 MA's), (Start: 183 @43254 has 1 MA's), (262, 43359), (335, 43497),

Gene: Love_20 Start: 14527, Stop: 14973, Start Num: 159
Candidate Starts for Love_20:
(Start: 142 @14506 has 4 MA's), (Start: 153 @14518 has 4 MA's), (Start: 159 @14527 has 14 MA's), (Start: 187 @14557 has 2 MA's), (Start: 193 @14566 has 2 MA's), (300, 14737), (309, 14770), (330, 14812), (341, 14833), (371, 14878), (392, 14914),

Gene: Lton_30 Start: 23640, Stop: 24134, Start Num: 110
Candidate Starts for Lton_30:
(Start: 110 @23640 has 2 MA's), (176, 23715), (180, 23721), (241, 23784), (317, 23916), (342, 23958), (364, 23973),

Gene: Lukilu_131 Start: 83536, Stop: 83952, Start Num: 157
Candidate Starts for Lukilu_131:
(21, 83059), (Start: 157 @83536 has 25 MA's), (200, 83593), (253, 83656), (296, 83725), (317, 83770), (340, 83809),

Gene: Lululemon_219 Start: 112060, Stop: 112500, Start Num: 165
Candidate Starts for Lululemon_219:
(52, 111865), (61, 111901), (96, 111973), (98, 111979), (Start: 106 @111988 has 4 MA's), (131, 112018), (135, 112024), (Start: 138 @112027 has 4 MA's), (Start: 143 @112033 has 2 MA's), (Start: 165 @112060 has 12 MA's), (241, 112156), (278, 112207), (322, 112300), (367, 112372), (396, 112426), (412, 112459),

Gene: Lumos_92 Start: 59232, Stop: 59639, Start Num: 161
Candidate Starts for Lumos_92:
(Start: 161 @59232 has 95 MA's), (182, 59253), (273, 59382), (275, 59385), (315, 59463), (334, 59499), (398, 59586), (408, 59613),

Gene: Lymara_98 Start: 62394, Stop: 62876, Start Num: 161
Candidate Starts for Lymara_98:
(48, 62202), (87, 62298), (Start: 161 @62394 has 95 MA's), (264, 62526),

Gene: Lynnae_96 Start: 59229, Stop: 59642, Start Num: 161
Candidate Starts for Lynnae_96:
(Start: 161 @59229 has 95 MA's), (239, 59340), (271, 59379), (275, 59388), (315, 59466), (370, 59538), (408, 59616), (414, 59634),

Gene: Lysidious_17 Start: 10274, Stop: 10777, Start Num: 106
Candidate Starts for Lysidious_17:
(Start: 106 @10274 has 4 MA's), (Start: 185 @10364 has 2 MA's), (203, 10388), (272, 10493), (275, 10499), (293, 10532), (297, 10538), (354, 10643),

Gene: MAckerman_89 Start: 56285, Stop: 56695, Start Num: 161
Candidate Starts for MAckerman_89:
(Start: 161 @56285 has 95 MA's), (Start: 192 @56315 has 2 MA's), (194, 56318), (223, 56363), (275, 56441), (299, 56483), (315, 56519), (345, 56561), (360, 56567), (383, 56615), (404, 56660), (414, 56687),

Gene: Maby2021_250 Start: 143650, Stop: 144099, Start Num: 151
Candidate Starts for Maby2021_250:
(Start: 151 @143650 has 44 MA's), (195, 143689), (208, 143707), (231, 143740), (247, 143767), (273, 143800), (317, 143887), (343, 143929), (393, 144028),

Gene: Makar_96 Start: 57907, Stop: 11, Start Num: 168
Candidate Starts for Makar_96:
(84, 57787), (Start: 117 @57847 has 1 MA's), (168, 57907), (Start: 193 @57943 has 2 MA's), (247, 58012), (255, 58027), (266, 58030), (382, 58225),

Gene: Malachai_17 Start: 10279, Stop: 10785, Start Num: 106
Candidate Starts for Malachai_17:
(Start: 106 @10279 has 4 MA's), (Start: 185 @10369 has 2 MA's), (275, 10504), (293, 10537), (317, 10588), (370, 10681), (393, 10723),

Gene: Mangeria_141 Start: 83337, Stop: 83753, Start Num: 157
Candidate Starts for Mangeria_141:
(21, 82860), (Start: 157 @83337 has 25 MA's), (200, 83394), (253, 83457), (296, 83526), (317, 83571), (340, 83610),

Gene: Marteena_62 Start: 42816, Stop: 43277, Start Num: 114
Candidate Starts for Marteena_62:
(44, 42666), (46, 42669), (70, 42744), (71, 42747), (Start: 114 @42816 has 11 MA's), (Start: 126 @42822 has 1 MA's), (191, 42903), (273, 42999), (330, 43116),

Gene: Matteo_53 Start: 35852, Stop: 36313, Start Num: 114
Candidate Starts for Matteo_53:
(44, 35702), (70, 35780), (71, 35783), (Start: 114 @35852 has 11 MA's), (Start: 126 @35858 has 1 MA's), (191, 35939), (273, 36035), (330, 36152),

Gene: McCrothy_19 Start: 14432, Stop: 14839, Start Num: 193
Candidate Starts for McCrothy_19:
(Start: 142 @14372 has 4 MA's), (Start: 153 @14384 has 4 MA's), (Start: 159 @14393 has 14 MA's), (Start: 187 @14423 has 2 MA's), (Start: 193 @14432 has 2 MA's), (300, 14603), (309, 14636), (330, 14678), (341, 14699), (371, 14744), (392, 14780),

Gene: McGee_97 Start: 39339, Stop: 39782, Start Num: 147
Candidate Starts for McGee_97:
(Start: 147 @39339 has 66 MA's), (Start: 167 @39363 has 1 MA's), (Start: 192 @39399 has 2 MA's), (194, 39402), (272, 39504), (278, 39516), (300, 39561), (309, 39582), (324, 39615), (388, 39729), (395, 39741),

Gene: McGee_251 Start: 142298, Stop: 142747, Start Num: 151
Candidate Starts for McGee_251:
(Start: 151 @142298 has 44 MA's), (195, 142337), (208, 142355), (231, 142388), (247, 142415), (273, 142448), (317, 142535), (343, 142577), (393, 142676),

Gene: Mcklovin_2 Start: 532, Stop: 981, Start Num: 163
Candidate Starts for Mcklovin_2:
(Start: 121 @484 has 1 MA's), (133, 499), (146, 514), (Start: 163 @532 has 2 MA's), (260, 658), (272, 676), (281, 694), (285, 703), (305, 739), (320, 775), (346, 811), (382, 874), (388, 886),

Gene: MiaZeal_128 Start: 68487, Stop: 69017, Start Num: 132
Candidate Starts for MiaZeal_128:
(Start: 132 @68487 has 2 MA's), (202, 68580), (207, 68589), (213, 68601), (237, 68640), (256, 68673), (299, 68748), (310, 68775), (316, 68787), (323, 68805), (327, 68811), (372, 68889),

Gene: MikeLiesIn_142 Start: 83297, Stop: 83713, Start Num: 157
Candidate Starts for MikeLiesIn_142:
(21, 82820), (Start: 157 @83297 has 25 MA's), (200, 83354), (253, 83417), (296, 83486), (317, 83531), (340, 83570),

Gene: Mikronejon_105 Start: 75414, Stop: 75887, Start Num: 142
Candidate Starts for Mikronejon_105:
(Start: 142 @75414 has 4 MA's), (188, 75471), (211, 75504), (292, 75612), (305, 75636), (326, 75684), (377, 75747), (383, 75759), (402, 75789), (425, 75846),

Gene: Mildred21_232 Start: 111445, Stop: 111885, Start Num: 165
Candidate Starts for Mildred21_232:
(Start: 143 @111418 has 2 MA's), (Start: 165 @111445 has 12 MA's), (278, 111592), (322, 111685), (367, 111757), (396, 111811), (412, 111844),

Gene: Miley16_95 Start: 59815, Stop: 60228, Start Num: 161
Candidate Starts for Miley16_95:
(Start: 161 @59815 has 95 MA's), (239, 59926), (273, 59971), (275, 59974), (324, 60070), (370, 60124), (408, 60202), (414, 60220),

Gene: MiniLon_96 Start: 59421, Stop: 59828, Start Num: 161
Candidate Starts for MiniLon_96:
(Start: 161 @59421 has 95 MA's), (182, 59442), (239, 59526), (273, 59571), (315, 59652), (334, 59688), (398, 59775), (408, 59802),

Gene: MiniMac_96 Start: 59416, Stop: 59823, Start Num: 161
Candidate Starts for MiniMac_96:
(Start: 161 @59416 has 95 MA's), (182, 59437), (239, 59521), (273, 59566), (315, 59647), (334, 59683), (398, 59770), (408, 59797),

Gene: MintFritos_94 Start: 72730, Stop: 73143, Start Num: 186
Candidate Starts for MintFritos_94:
(Start: 122 @72655 has 2 MA's), (136, 72673), (Start: 186 @72730 has 2 MA's), (247, 72826), (269, 72853), (273, 72865), (275, 72868), (302, 72916),

Gene: MkaliMitinis3_97 Start: 59582, Stop: 59995, Start Num: 161
Candidate Starts for MkaliMitinis3_97:
(Start: 161 @59582 has 95 MA's), (239, 59693), (271, 59732), (275, 59741), (315, 59819), (370, 59891), (408, 59969), (414, 59987),

Gene: Moby_134 Start: 80939, Stop: 81355, Start Num: 157
Candidate Starts for Moby_134:
(21, 80462), (Start: 157 @80939 has 25 MA's), (200, 80996), (253, 81059), (296, 81128), (317, 81173), (340, 81212),

Gene: ModicumRichard_20 Start: 18713, Stop: 18225, Start Num: 134
Candidate Starts for ModicumRichard_20:
(12, 19316), (14, 19235), (18, 19211), (20, 19175), (22, 19145), (23, 19130), (33, 18977), (55, 18863), (73, 18806), (80, 18797), (82, 18794), (Start: 134 @18713 has 4 MA's), (204, 18629), (224, 18605), (250, 18560), (269, 18533), (273, 18521), (276, 18515), (334, 18395),

Gene: Moiqah_133 Start: 80916, Stop: 81332, Start Num: 157
Candidate Starts for Moiqah_133:

(21, 80439), (Start: 157 @80916 has 25 MA's), (200, 80973), (253, 81036), (296, 81105), (317, 81150), (340, 81189),

Gene: Mojorita_45 Start: 30760, Stop: 31281, Start Num: 139
Candidate Starts for Mojorita_45:
(Start: 139 @30760 has 5 MA's), (330, 31048), (367, 31099), (382, 31132), (385, 31138), (395, 31168),

Gene: Molivier_86 Start: 54379, Stop: 54792, Start Num: 161
Candidate Starts for Molivier_86:
(Start: 161 @54379 has 95 MA's), (239, 54490), (271, 54529), (275, 54538), (315, 54616), (370, 54688), (408, 54766), (414, 54784),

Gene: Momo_95 Start: 40155, Stop: 40598, Start Num: 147
Candidate Starts for Momo_95:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: Moostard_89 Start: 59339, Stop: 59746, Start Num: 161
Candidate Starts for Moostard_89:
(Start: 161 @59339 has 95 MA's), (182, 59360), (273, 59489), (275, 59492), (315, 59570), (334, 59606), (398, 59693), (408, 59720),

Gene: Mordred_100 Start: 63630, Stop: 64124, Start Num: 161
Candidate Starts for Mordred_100:
(87, 63522), (105, 63561), (Start: 161 @63630 has 95 MA's), (225, 63714), (272, 63786), (293, 63825), (417, 64095),

Gene: Morizzled23_247 Start: 141326, Stop: 141775, Start Num: 151
Candidate Starts for Morizzled23_247:
(Start: 151 @141326 has 44 MA's), (195, 141365), (208, 141383), (231, 141416), (247, 141443), (273, 141476), (317, 141563), (343, 141605), (393, 141704),

Gene: Morrissey_52 Start: 39471, Stop: 38908, Start Num: 100
Candidate Starts for Morrissey_52:
(91, 39495), (Start: 100 @39471 has 1 MA's), (102, 39468), (Start: 116 @39450 has 1 MA's), (Start: 158 @39399 has 8 MA's), (234, 39273), (260, 39225), (277, 39192), (282, 39180), (296, 39153),

Gene: MortyNRick_68 Start: 43724, Stop: 44188, Start Num: 158
Candidate Starts for MortyNRick_68:
(Start: 158 @43724 has 8 MA's), (198, 43778), (284, 43904), (295, 43925), (329, 44000), (369, 44084), (373, 44090),

Gene: Ms6_60 Start: 36767, Stop: 37165, Start Num: 187
Candidate Starts for Ms6_60:
(Start: 122 @36683 has 2 MA's), (Start: 187 @36767 has 2 MA's), (336, 37010), (363, 37049), (383, 37091),

Gene: MsGreen_92 Start: 59234, Stop: 59641, Start Num: 161
Candidate Starts for MsGreen_92:
(Start: 161 @59234 has 95 MA's), (182, 59255), (273, 59384), (275, 59387), (315, 59465), (334, 59501), (398, 59588), (408, 59615),

Gene: Music_78 Start: 47190, Stop: 47681, Start Num: 159
Candidate Starts for Music_78:
(Start: 159 @47190 has 14 MA's),

Gene: Mutaforma13_69 Start: 44640, Stop: 45101, Start Num: 114
Candidate Starts for Mutaforma13_69:
(Start: 114 @44640 has 11 MA's), (266, 44814), (279, 44841), (320, 44925), (357, 44964), (424, 45093),

Gene: Myrna_95 Start: 42678, Stop: 43148, Start Num: 123
Candidate Starts for Myrna_95:
(39, 42480), (Start: 123 @42678 has 2 MA's), (150, 42711), (162, 42726), (182, 42756), (194, 42771), (211, 42798), (264, 42858), (272, 42873), (273, 42876), (278, 42885), (356, 43035), (395, 43107), (408, 43137),

Gene: Naija_95 Start: 40155, Stop: 40598, Start Num: 147
Candidate Starts for Naija_95:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: Nappy_98 Start: 41881, Stop: 42324, Start Num: 147
Candidate Starts for Nappy_98:
(Start: 147 @41881 has 66 MA's), (Start: 167 @41905 has 1 MA's), (Start: 192 @41941 has 2 MA's), (194, 41944), (272, 42046), (278, 42058), (300, 42103), (309, 42124), (324, 42157), (388, 42271), (395, 42283),

Gene: Nebkiss_18 Start: 16946, Stop: 17431, Start Num: 144
Candidate Starts for Nebkiss_18:
(Start: 144 @16946 has 6 MA's), (Start: 152 @16955 has 3 MA's), (291, 17171), (308, 17210), (313, 17219), (338, 17270), (393, 17369),

Gene: Nekros_131 Start: 71983, Stop: 72513, Start Num: 132
Candidate Starts for Nekros_131:
(Start: 132 @71983 has 2 MA's), (202, 72076), (207, 72085), (213, 72097), (237, 72136), (256, 72169), (299, 72244), (310, 72271), (316, 72283), (323, 72301), (327, 72307), (372, 72385),

Gene: Neobush_64 Start: 42273, Stop: 42734, Start Num: 114
Candidate Starts for Neobush_64:
(77, 42207), (Start: 114 @42273 has 11 MA's), (239, 42420), (272, 42456), (285, 42483), (309, 42531), (330, 42573), (337, 42582), (380, 42642),

Gene: Netyap_94 Start: 59453, Stop: 59866, Start Num: 161
Candidate Starts for Netyap_94:
(Start: 161 @59453 has 95 MA's), (239, 59564), (273, 59609), (275, 59612), (324, 59708), (370, 59762), (408, 59840), (414, 59858),

Gene: Ngannou_92 Start: 39137, Stop: 39580, Start Num: 147
Candidate Starts for Ngannou_92:
(Start: 147 @39137 has 66 MA's), (Start: 167 @39161 has 1 MA's), (Start: 192 @39197 has 2 MA's), (194, 39200), (272, 39302), (278, 39314), (300, 39359), (309, 39380), (324, 39413), (388, 39527), (395, 39539),

Gene: Nibley_125 Start: 68366, Stop: 68896, Start Num: 132
Candidate Starts for Nibley_125:
(Start: 132 @68366 has 2 MA's), (202, 68459), (207, 68468), (213, 68480), (237, 68519), (256, 68552), (299, 68627), (310, 68654), (316, 68666), (323, 68684), (327, 68690), (372, 68768),

Gene: Nicholas_90 Start: 59344, Stop: 59751, Start Num: 161
Candidate Starts for Nicholas_90:
(Start: 161 @59344 has 95 MA's), (182, 59365), (273, 59494), (275, 59497), (315, 59575), (334, 59611), (398, 59698), (408, 59725),

Gene: Nicholasp3_95 Start: 59299, Stop: 59712, Start Num: 161
Candidate Starts for Nicholasp3_95:
(Start: 161 @59299 has 95 MA's), (239, 59410), (271, 59449), (275, 59458), (315, 59536), (370, 59608), (408, 59686), (414, 59704),

Gene: Nikan_89 Start: 54765, Stop: 54325, Start Num: 143
Candidate Starts for Nikan_89:
(72, 54867), (85, 54849), (93, 54831), (Start: 143 @54765 has 2 MA's), (Start: 175 @54726 has 2 MA's), (Start: 193 @54711 has 2 MA's), (293, 54576), (320, 54516), (324, 54507), (326, 54504), (358, 54459),

Gene: Nordenberg_13 Start: 12847, Stop: 13293, Start Num: 159
Candidate Starts for Nordenberg_13:
(Start: 142 @12826 has 4 MA's), (Start: 153 @12838 has 4 MA's), (Start: 159 @12847 has 14 MA's), (Start: 187 @12877 has 2 MA's), (Start: 193 @12886 has 2 MA's), (300, 13057), (309, 13090), (330, 13132), (341, 13153), (371, 13198), (392, 13234),

Gene: ObLaDi_20 Start: 18692, Stop: 18204, Start Num: 134
Candidate Starts for ObLaDi_20:
(1, 19712), (2, 19706), (3, 19688), (12, 19295), (14, 19214), (18, 19190), (20, 19154), (22, 19124), (23, 19109), (33, 18956), (55, 18842), (73, 18785), (80, 18776), (82, 18773), (Start: 134 @18692 has 4 MA's), (204, 18608), (224, 18584), (250, 18539), (269, 18512), (273, 18500), (276, 18494), (334, 18374),

Gene: OhShagHennessy_87 Start: 56542, Stop: 56952, Start Num: 161
Candidate Starts for OhShagHennessy_87:
(Start: 161 @56542 has 95 MA's), (Start: 192 @56572 has 2 MA's), (194, 56575), (223, 56620), (275, 56698), (299, 56740), (315, 56776), (345, 56818), (360, 56824), (383, 56872), (404, 56917), (414, 56944),

Gene: OrediggerDelux_251 Start: 143615, Stop: 144064, Start Num: 151
Candidate Starts for OrediggerDelux_251:
(Start: 151 @143615 has 44 MA's), (195, 143654), (208, 143672), (231, 143705), (247, 143732), (273, 143765), (317, 143852), (343, 143894), (393, 143993),

Gene: OverPar_97 Start: 59619, Stop: 60032, Start Num: 161
Candidate Starts for OverPar_97:
(Start: 161 @59619 has 95 MA's), (239, 59730), (271, 59769), (275, 59778), (315, 59856), (370, 59928), (408, 60006), (414, 60024),

Gene: PYPDinur_96 Start: 59772, Stop: 60179, Start Num: 161
Candidate Starts for PYPDinur_96:

(Start: 161 @59772 has 95 MA's), (182, 59793), (275, 59925), (324, 60021), (370, 60075), (398, 60126), (408, 60153), (410, 60156), (414, 60171),

Gene: PacManQ_219 Start: 112060, Stop: 112500, Start Num: 165
Candidate Starts for PacManQ_219:
(52, 111865), (61, 111901), (96, 111973), (98, 111979), (Start: 106 @111988 has 4 MA's), (131, 112018), (135, 112024), (Start: 138 @112027 has 4 MA's), (Start: 143 @112033 has 2 MA's), (Start: 165 @112060 has 12 MA's), (241, 112156), (278, 112207), (322, 112300), (367, 112372), (396, 112426), (412, 112459),

Gene: PapayaSalad_44 Start: 30268, Stop: 30774, Start Num: 122
Candidate Starts for PapayaSalad_44:
(Start: 122 @30268 has 2 MA's), (Start: 152 @30304 has 3 MA's), (320, 30562), (330, 30580), (348, 30601),

Gene: Paries_19 Start: 14215, Stop: 14661, Start Num: 159
Candidate Starts for Paries_19:
(Start: 142 @14194 has 4 MA's), (Start: 153 @14206 has 4 MA's), (Start: 159 @14215 has 14 MA's), (Start: 187 @14245 has 2 MA's), (Start: 193 @14254 has 2 MA's), (300, 14425), (309, 14458), (330, 14500), (341, 14521), (371, 14566), (392, 14602),

Gene: PatoPoderoso_61 Start: 40510, Stop: 40908, Start Num: 187
Candidate Starts for PatoPoderoso_61:
(Start: 122 @40426 has 2 MA's), (Start: 187 @40510 has 2 MA's), (336, 40753), (363, 40792), (383, 40834),

Gene: Patter_96 Start: 40172, Stop: 40615, Start Num: 147
Candidate Starts for Patter_96:
(Start: 147 @40172 has 66 MA's), (Start: 167 @40196 has 1 MA's), (Start: 192 @40232 has 2 MA's), (194, 40235), (272, 40337), (278, 40349), (300, 40394), (309, 40415), (324, 40448), (388, 40562), (395, 40574),

Gene: Peregrin_232 Start: 114891, Stop: 115472, Start Num: 106
Candidate Starts for Peregrin_232:
(Start: 106 @114891 has 4 MA's), (Start: 151 @114942 has 44 MA's), (182, 114978), (Start: 201 @115002 has 1 MA's), (218, 115023), (246, 115062), (317, 115197), (386, 115323), (387, 115329),

Gene: Persimmon_162 Start: 90873, Stop: 91259, Start Num: 193
Candidate Starts for Persimmon_162:
(Start: 157 @90837 has 25 MA's), (169, 90843), (Start: 193 @90873 has 2 MA's), (248, 90942), (300, 91029), (331, 91095),

Gene: PharkleMinkus_250 Start: 141563, Stop: 142012, Start Num: 151
Candidate Starts for PharkleMinkus_250:
(Start: 151 @141563 has 44 MA's), (195, 141602), (208, 141620), (231, 141653), (247, 141680), (273, 141713), (317, 141800), (343, 141842), (393, 141941),

Gene: Phistory_56 Start: 36066, Stop: 36515, Start Num: 160
Candidate Starts for Phistory_56:
(Start: 94 @35985 has 1 MA's), (Start: 160 @36066 has 3 MA's), (211, 36138), (281, 36234), (300, 36270), (372, 36399), (378, 36405), (426, 36504),

Gene: Phlegm_98 Start: 40155, Stop: 40598, Start Num: 147

Candidate Starts for Phlegm_98:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: Phox_138 Start: 83560, Stop: 83976, Start Num: 157
Candidate Starts for Phox_138:
(21, 83083), (Start: 157 @83560 has 25 MA's), (200, 83617), (253, 83680), (296, 83749), (317, 83794), (340, 83833),

Gene: Phusco_96 Start: 40920, Stop: 41363, Start Num: 147
Candidate Starts for Phusco_96:
(Start: 147 @40920 has 66 MA's), (Start: 167 @40944 has 1 MA's), (Start: 192 @40980 has 2 MA's), (194, 40983), (272, 41085), (278, 41097), (300, 41142), (309, 41163), (324, 41196), (388, 41310), (395, 41322),

Gene: Picard_45 Start: 30958, Stop: 31479, Start Num: 139
Candidate Starts for Picard_45:
(Start: 139 @30958 has 5 MA's), (330, 31246), (385, 31336), (395, 31366), (423, 31432),

Gene: Piccadilly_44 Start: 30160, Stop: 30651, Start Num: 129
Candidate Starts for Piccadilly_44:
(Start: 129 @30160 has 11 MA's), (309, 30412), (317, 30427),

Gene: Pio_145 Start: 85169, Stop: 85585, Start Num: 157
Candidate Starts for Pio_145:
(21, 84692), (Start: 157 @85169 has 25 MA's), (200, 85226), (253, 85289), (296, 85358), (317, 85403), (340, 85442),

Gene: Pivoine_95 Start: 40155, Stop: 40598, Start Num: 147
Candidate Starts for Pivoine_95:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: Pollux_66 Start: 44701, Stop: 45162, Start Num: 114
Candidate Starts for Pollux_66:
(44, 44551), (46, 44554), (70, 44629), (71, 44632), (Start: 114 @44701 has 11 MA's), (Start: 126 @44707 has 1 MA's), (191, 44788), (273, 44884), (330, 45001),

Gene: Poochiewood_65 Start: 45021, Stop: 45479, Start Num: 109
Candidate Starts for Poochiewood_65:
(Start: 109 @45021 has 5 MA's), (177, 45093), (251, 45183), (257, 45195), (273, 45216), (305, 45279), (317, 45306),

Gene: Poochiewood_89 Start: 57939, Stop: 58349, Start Num: 161
Candidate Starts for Poochiewood_89:
(Start: 161 @57939 has 95 MA's), (Start: 192 @57969 has 2 MA's), (194, 57972), (223, 58017), (275, 58095), (299, 58137), (315, 58173), (345, 58215), (360, 58221), (383, 58269), (404, 58314), (414, 58341),

Gene: PowerRanger_26 Start: 22001, Stop: 22438, Start Num: 151
Candidate Starts for PowerRanger_26:

(Start: 108 @21953 has 1 MA's), (Start: 151 @22001 has 44 MA's), (273, 22172), (275, 22175), (297, 22214),

Gene: Primadonna_244 Start: 142325, Stop: 142774, Start Num: 151
Candidate Starts for Primadonna_244:
(Start: 151 @142325 has 44 MA's), (195, 142364), (208, 142382), (231, 142415), (247, 142442), (273, 142475), (317, 142562), (343, 142604), (393, 142703),

Gene: PrincessTrina_101 Start: 63821, Stop: 64315, Start Num: 161
Candidate Starts for PrincessTrina_101:
(87, 63713), (105, 63752), (Start: 161 @63821 has 95 MA's), (225, 63905), (272, 63977), (293, 64016), (417, 64286),

Gene: Pupusa_101 Start: 42966, Stop: 43409, Start Num: 147
Candidate Starts for Pupusa_101:
(Start: 147 @42966 has 66 MA's), (Start: 167 @42990 has 1 MA's), (Start: 192 @43026 has 2 MA's), (194, 43029), (272, 43131), (278, 43143), (300, 43188), (309, 43209), (324, 43242), (388, 43356), (395, 43368),

Gene: PurduePete_250 Start: 143690, Stop: 144139, Start Num: 151
Candidate Starts for PurduePete_250:
(Start: 151 @143690 has 44 MA's), (195, 143729), (208, 143747), (231, 143780), (247, 143807), (273, 143840), (317, 143927), (343, 143969), (393, 144068),

Gene: Quasimodo_96 Start: 40685, Stop: 41128, Start Num: 147
Candidate Starts for Quasimodo_96:
(Start: 147 @40685 has 66 MA's), (Start: 167 @40709 has 1 MA's), (Start: 192 @40745 has 2 MA's), (194, 40748), (272, 40850), (278, 40862), (300, 40907), (309, 40928), (324, 40961), (388, 41075), (395, 41087),

Gene: Quby_96 Start: 59183, Stop: 59590, Start Num: 161
Candidate Starts for Quby_96:
(Start: 161 @59183 has 95 MA's), (275, 59336), (324, 59432), (370, 59486), (398, 59537), (408, 59564), (410, 59567), (414, 59582),

Gene: Rabinovish_140 Start: 83892, Stop: 84308, Start Num: 157
Candidate Starts for Rabinovish_140:
(21, 83415), (Start: 157 @83892 has 25 MA's), (200, 83949), (253, 84012), (296, 84081), (317, 84126), (340, 84165),

Gene: Rahel_95 Start: 40512, Stop: 40955, Start Num: 147
Candidate Starts for Rahel_95:
(Start: 147 @40512 has 66 MA's), (Start: 167 @40536 has 1 MA's), (Start: 192 @40572 has 2 MA's), (194, 40575), (272, 40677), (278, 40689), (300, 40734), (309, 40755), (324, 40788), (388, 40902), (395, 40914),

Gene: Raleigh_43 Start: 33449, Stop: 33964, Start Num: 137
Candidate Starts for Raleigh_43:
(Start: 137 @33449 has 3 MA's), (174, 33488), (326, 33728), (330, 33734),

Gene: Rearden_126 Start: 68479, Stop: 68916, Start Num: 202
Candidate Starts for Rearden_126:

(Start: 132 @68386 has 2 MA's), (202, 68479), (207, 68488), (213, 68500), (237, 68539), (256, 68572), (299, 68647), (310, 68674), (316, 68686), (323, 68704), (327, 68710), (372, 68788),

Gene: Red305_93 Start: 59235, Stop: 59642, Start Num: 161
Candidate Starts for Red305_93:
(Start: 161 @59235 has 95 MA's), (182, 59256), (273, 59385), (275, 59388), (315, 59466), (334, 59502), (398, 59589), (408, 59616),

Gene: RedWattleHog_27 Start: 28545, Stop: 28156, Start Num: 201
Candidate Starts for RedWattleHog_27:
(112, 28650), (Start: 201 @28545 has 1 MA's), (275, 28443), (331, 28326), (413, 28179),

Gene: RedWattleHog_100 Start: 85618, Stop: 86124, Start Num: 94
Candidate Starts for RedWattleHog_100:
(90, 85600), (Start: 94 @85618 has 1 MA's), (Start: 151 @85687 has 44 MA's), (Start: 183 @85723 has 1 MA's), (Start: 187 @85726 has 2 MA's), (189, 85729), (220, 85768), (271, 85846), (273, 85852), (335, 85981), (382, 86056),

Gene: Rofo_18 Start: 14497, Stop: 14928, Start Num: 187
Candidate Starts for Rofo_18:
(Start: 142 @14446 has 4 MA's), (Start: 153 @14458 has 4 MA's), (Start: 159 @14467 has 14 MA's), (Start: 187 @14497 has 2 MA's), (Start: 193 @14506 has 2 MA's), (300, 14677), (309, 14710), (330, 14752), (341, 14773), (371, 14818), (392, 14854),

Gene: RomansRevenge_75 Start: 50908, Stop: 50471, Start Num: 178
Candidate Starts for RomansRevenge_75:
(Start: 110 @50992 has 2 MA's), (Start: 116 @50983 has 1 MA's), (Start: 178 @50908 has 1 MA's), (280, 50743), (302, 50698), (355, 50596), (366, 50578), (374, 50560),

Gene: Ronan_89 Start: 37956, Stop: 38399, Start Num: 147
Candidate Starts for Ronan_89:
(Start: 147 @37956 has 66 MA's), (Start: 167 @37980 has 1 MA's), (Start: 192 @38016 has 2 MA's), (194, 38019), (272, 38121), (278, 38133), (300, 38178), (309, 38199), (324, 38232), (388, 38346), (395, 38358),

Gene: Rooter_41 Start: 26895, Stop: 27386, Start Num: 124
Candidate Starts for Rooter_41:
(28, 26580), (69, 26814), (111, 26880), (Start: 124 @26895 has 3 MA's), (248, 27060), (272, 27096), (275, 27102), (349, 27237), (387, 27309), (419, 27375),

Gene: Rose5_92 Start: 57809, Stop: 58219, Start Num: 161
Candidate Starts for Rose5_92:
(Start: 161 @57809 has 95 MA's), (Start: 192 @57839 has 2 MA's), (194, 57842), (223, 57887), (275, 57965), (299, 58007), (315, 58043), (345, 58085), (360, 58091), (383, 58139), (404, 58184), (414, 58211),

Gene: Rose5_65 Start: 45033, Stop: 45491, Start Num: 109
Candidate Starts for Rose5_65:
(Start: 109 @45033 has 5 MA's), (177, 45105), (251, 45195), (257, 45207), (273, 45228), (305, 45291), (317, 45318),

Gene: RosiePosie_100 Start: 63686, Stop: 64180, Start Num: 161
Candidate Starts for RosiePosie_100:

(87, 63578), (105, 63617), (Start: 161 @63686 has 95 MA's), (225, 63770), (272, 63842), (281, 63860), (293, 63881),

Gene: Rossetti_95 Start: 59618, Stop: 60031, Start Num: 161
Candidate Starts for Rossetti_95:
(Start: 161 @59618 has 95 MA's), (239, 59729), (271, 59768), (275, 59777), (315, 59855), (370, 59927), (408, 60005), (414, 60023),

Gene: Rumpelstiltskin_91 Start: 59092, Stop: 59505, Start Num: 161
Candidate Starts for Rumpelstiltskin_91:
(Start: 161 @59092 has 95 MA's), (239, 59203), (271, 59242), (275, 59251), (315, 59329), (370, 59401), (408, 59479), (414, 59497),

Gene: SV1_42 Start: 29657, Stop: 30169, Start Num: 140
Candidate Starts for SV1_42:
(Start: 140 @29657 has 2 MA's), (305, 29882), (364, 29981), (382, 30020), (385, 30026), (395, 30056),

Gene: SVoro_139 Start: 83654, Stop: 84070, Start Num: 157
Candidate Starts for SVoro_139:
(21, 83177), (Start: 157 @83654 has 25 MA's), (200, 83711), (253, 83774), (296, 83843), (317, 83888), (340, 83927),

Gene: SadLad_28 Start: 14537, Stop: 14064, Start Num: 226
Candidate Starts for SadLad_28:
(4, 15395), (5, 15374), (6, 15371), (7, 15356), (8, 15353), (9, 15335), (10, 15299), (11, 15278), (13, 15239), (15, 15185), (16, 15182), (17, 15173), (19, 15155), (25, 15065), (29, 15011), (32, 14957), (35, 14912), (41, 14870), (43, 14864), (56, 14822), (57, 14816), (60, 14798), (63, 14792), (68, 14780), (79, 14759), (81, 14756), (107, 14705), (Start: 116 @14693 has 1 MA's), (Start: 127 @14681 has 1 MA's), (Start: 144 @14660 has 6 MA's), (174, 14621), (210, 14564), (Start: 226 @14537 has 1 MA's), (289, 14405), (298, 14387), (321, 14321), (341, 14282), (355, 14258), (359, 14249), (390, 14168),

Gene: Salacia_251 Start: 144116, Stop: 144565, Start Num: 151
Candidate Starts for Salacia_251:
(Start: 151 @144116 has 44 MA's), (195, 144155), (208, 144173), (231, 144206), (247, 144233), (273, 144266), (317, 144353), (343, 144395), (393, 144494),

Gene: Samty_91 Start: 59332, Stop: 59739, Start Num: 161
Candidate Starts for Samty_91:
(Start: 161 @59332 has 95 MA's), (182, 59353), (273, 59482), (275, 59485), (315, 59563), (334, 59599), (398, 59686), (408, 59713),

Gene: Samy_46 Start: 31456, Stop: 31815, Start Num: 230
Candidate Starts for Samy_46:
(Start: 230 @31456 has 1 MA's), (256, 31495), (272, 31516), (278, 31528), (293, 31555), (309, 31591), (317, 31606), (332, 31636),

Gene: Sarge_39 Start: 25703, Stop: 26194, Start Num: 124
Candidate Starts for Sarge_39:
(28, 25388), (69, 25622), (111, 25688), (Start: 124 @25703 has 3 MA's), (248, 25868), (272, 25904), (275, 25910), (349, 26045), (387, 26117), (419, 26183),

Gene: Sarshaun_96 Start: 60210, Stop: 60623, Start Num: 161
Candidate Starts for Sarshaun_96:

(Start: 161 @60210 has 95 MA's), (239, 60321), (271, 60360), (275, 60369), (315, 60447), (370, 60519), (408, 60597), (414, 60615),

Gene: Sauce_96 Start: 40004, Stop: 40447, Start Num: 147
Candidate Starts for Sauce_96:
(Start: 147 @40004 has 66 MA's), (Start: 167 @40028 has 1 MA's), (Start: 192 @40064 has 2 MA's), (194, 40067), (272, 40169), (278, 40181), (300, 40226), (309, 40247), (324, 40280), (388, 40394), (395, 40406),

Gene: Scavito_101 Start: 63679, Stop: 64173, Start Num: 161
Candidate Starts for Scavito_101:
(87, 63571), (105, 63610), (Start: 161 @63679 has 95 MA's), (225, 63763), (272, 63835), (293, 63874), (417, 64144),

Gene: Schlegelian_45 Start: 30710, Stop: 31201, Start Num: 129
Candidate Starts for Schlegelian_45:
(Start: 129 @30710 has 11 MA's), (309, 30962), (317, 30977),

Gene: ScoobyDoobyDoo_251 Start: 151338, Stop: 151754, Start Num: 183
Candidate Starts for ScoobyDoobyDoo_251:
(113, 151257), (Start: 183 @151338 has 1 MA's), (199, 151356), (225, 151383), (234, 151401), (247, 151422), (269, 151452), (293, 151500), (302, 151515), (331, 151581), (383, 151668),

Gene: ScoobyDoobyDoo_60 Start: 22027, Stop: 22503, Start Num: 123
Candidate Starts for ScoobyDoobyDoo_60:
(66, 21928), (Start: 123 @22027 has 2 MA's), (272, 22225), (401, 22462),

Gene: Seanderson_3 Start: 1096, Stop: 1605, Start Num: 158
Candidate Starts for Seanderson_3:
(Start: 127 @1057 has 1 MA's), (Start: 158 @1096 has 8 MA's), (296, 1291), (300, 1300), (317, 1336), (428, 1558),

Gene: Sebata_97 Start: 41640, Stop: 42083, Start Num: 147
Candidate Starts for Sebata_97:
(Start: 147 @41640 has 66 MA's), (Start: 167 @41664 has 1 MA's), (Start: 192 @41700 has 2 MA's), (194, 41703), (272, 41805), (278, 41817), (300, 41862), (309, 41883), (324, 41916), (388, 42030), (395, 42042),

Gene: Shaboozey_129 Start: 68810, Stop: 69340, Start Num: 132
Candidate Starts for Shaboozey_129:
(Start: 132 @68810 has 2 MA's), (202, 68903), (207, 68912), (213, 68924), (237, 68963), (256, 68996), (299, 69071), (310, 69098), (316, 69110), (323, 69128), (327, 69134), (372, 69212),

Gene: Shaqnato_88 Start: 38879, Stop: 39322, Start Num: 147
Candidate Starts for Shaqnato_88:
(Start: 147 @38879 has 66 MA's), (Start: 167 @38903 has 1 MA's), (Start: 192 @38939 has 2 MA's), (194, 38942), (272, 39044), (278, 39056), (300, 39101), (309, 39122), (324, 39155), (388, 39269), (395, 39281),

Gene: Shaqnato_134 Start: 81274, Stop: 81690, Start Num: 157
Candidate Starts for Shaqnato_134:
(21, 80797), (Start: 157 @81274 has 25 MA's), (200, 81331), (253, 81394), (296, 81463), (317, 81508), (340, 81547),

Gene: Shelob_143 Start: 84076, Stop: 84492, Start Num: 157
Candidate Starts for Shelob_143:
(21, 83599), (Start: 157 @84076 has 25 MA's), (200, 84133), (253, 84196), (296, 84265), (317, 84310), (340, 84349),

Gene: Sheng711_97 Start: 59248, Stop: 59655, Start Num: 161
Candidate Starts for Sheng711_97:
(Start: 161 @59248 has 95 MA's), (182, 59269), (275, 59401), (324, 59497), (370, 59551), (398, 59602), (408, 59629), (410, 59632), (414, 59647),

Gene: Shifa_130 Start: 81500, Stop: 81916, Start Num: 157
Candidate Starts for Shifa_130:
(21, 81023), (Start: 157 @81500 has 25 MA's), (200, 81557), (253, 81620), (296, 81689), (317, 81734), (340, 81773),

Gene: Shnickers_96 Start: 40911, Stop: 41354, Start Num: 147
Candidate Starts for Shnickers_96:
(Start: 147 @40911 has 66 MA's), (Start: 167 @40935 has 1 MA's), (Start: 192 @40971 has 2 MA's), (194, 40974), (272, 41076), (278, 41088), (300, 41133), (309, 41154), (324, 41187), (388, 41301), (395, 41313),

Gene: Shoya_45 Start: 27671, Stop: 28162, Start Num: 124
Candidate Starts for Shoya_45:
(69, 27590), (111, 27656), (Start: 124 @27671 has 3 MA's), (248, 27836), (272, 27872), (275, 27878), (349, 28013), (387, 28085), (419, 28151),

Gene: Shrimp_252 Start: 143727, Stop: 144176, Start Num: 151
Candidate Starts for Shrimp_252:
(Start: 151 @143727 has 44 MA's), (195, 143766), (208, 143784), (231, 143817), (247, 143844), (273, 143877), (317, 143964), (343, 144006), (393, 144105),

Gene: Shuckle_221 Start: 113504, Stop: 113944, Start Num: 165
Candidate Starts for Shuckle_221:
(52, 113309), (61, 113345), (96, 113417), (98, 113423), (Start: 106 @113432 has 4 MA's), (131, 113462), (135, 113468), (Start: 138 @113471 has 4 MA's), (Start: 143 @113477 has 2 MA's), (Start: 165 @113504 has 12 MA's), (241, 113600), (278, 113651), (322, 113744), (367, 113816), (396, 113870), (412, 113903),

Gene: SilverDipper_97 Start: 40155, Stop: 40598, Start Num: 147
Candidate Starts for SilverDipper_97:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: Silverleaf_90 Start: 57305, Stop: 57715, Start Num: 161
Candidate Starts for Silverleaf_90:
(Start: 161 @57305 has 95 MA's), (Start: 192 @57335 has 2 MA's), (194, 57338), (223, 57383), (275, 57461), (299, 57503), (315, 57539), (345, 57581), (360, 57587), (383, 57635), (404, 57680), (414, 57707),

Gene: Sitar_20 Start: 15655, Stop: 16110, Start Num: 153
Candidate Starts for Sitar_20:

(Start: 142 @15643 has 4 MA's), (Start: 153 @15655 has 4 MA's), (Start: 159 @15664 has 14 MA's), (Start: 187 @15694 has 2 MA's), (Start: 193 @15703 has 2 MA's), (300, 15874), (309, 15907), (330, 15949), (341, 15970), (371, 16015), (392, 16051),

Gene: SiwenD96_142 Start: 83734, Stop: 84150, Start Num: 157
Candidate Starts for SiwenD96_142:
(21, 83257), (Start: 157 @83734 has 25 MA's), (200, 83791), (253, 83854), (296, 83923), (317, 83968), (340, 84007),

Gene: SiwenD96_251 Start: 144063, Stop: 144512, Start Num: 151
Candidate Starts for SiwenD96_251:
(Start: 151 @144063 has 44 MA's), (195, 144102), (208, 144120), (223, 144141), (231, 144153), (247, 144180), (273, 144213), (317, 144300),

Gene: Smairt_2 Start: 926, Stop: 1435, Start Num: 158
Candidate Starts for Smairt_2:
(Start: 158 @926 has 8 MA's), (296, 1121), (300, 1130), (317, 1166), (428, 1388),

Gene: SmallFry_96 Start: 40106, Stop: 40549, Start Num: 147
Candidate Starts for SmallFry_96:
(Start: 147 @40106 has 66 MA's), (Start: 167 @40130 has 1 MA's), (Start: 192 @40166 has 2 MA's), (194, 40169), (272, 40271), (278, 40283), (300, 40328), (309, 40349), (324, 40382), (388, 40496), (395, 40508),

Gene: Smeagol_2 Start: 927, Stop: 1436, Start Num: 158
Candidate Starts for Smeagol_2:
(Start: 158 @927 has 8 MA's), (296, 1122), (300, 1131), (317, 1167), (428, 1389),

Gene: Snenia_91 Start: 59236, Stop: 59643, Start Num: 161
Candidate Starts for Snenia_91:
(Start: 161 @59236 has 95 MA's), (182, 59257), (273, 59386), (275, 59389), (315, 59467), (334, 59503), (398, 59590), (408, 59617),

Gene: SoJo_43 Start: 31466, Stop: 31978, Start Num: 139
Candidate Starts for SoJo_43:
(Start: 139 @31466 has 5 MA's), (184, 31523), (367, 31799), (395, 31868),

Gene: SoJulia_97 Start: 60975, Stop: 61388, Start Num: 161
Candidate Starts for SoJulia_97:
(Start: 161 @60975 has 95 MA's), (239, 61086), (271, 61125), (275, 61134), (315, 61212), (370, 61284), (408, 61362), (414, 61380),

Gene: Soap141_95 Start: 60210, Stop: 60623, Start Num: 161
Candidate Starts for Soap141_95:
(Start: 161 @60210 has 95 MA's), (239, 60321), (271, 60360), (275, 60369), (315, 60447), (370, 60519), (408, 60597), (414, 60615),

Gene: SoilZilla_137 Start: 82567, Stop: 82983, Start Num: 157
Candidate Starts for SoilZilla_137:
(21, 82090), (Start: 157 @82567 has 25 MA's), (200, 82624), (253, 82687), (296, 82756), (317, 82801), (340, 82840),

Gene: Spec_93 Start: 40676, Stop: 41119, Start Num: 147

Candidate Starts for Spec_93:
(Start: 147 @40676 has 66 MA's), (Start: 167 @40700 has 1 MA's), (Start: 192 @40736 has 2 MA's), (194, 40739), (272, 40841), (278, 40853), (300, 40898), (309, 40919), (324, 40952), (388, 41066), (395, 41078),

Gene: Specks_254 Start: 143067, Stop: 143516, Start Num: 151
Candidate Starts for Specks_254:
(Start: 151 @143067 has 44 MA's), (195, 143106), (208, 143124), (231, 143157), (247, 143184), (273, 143217), (317, 143304), (343, 143346), (393, 143445),

Gene: SpeedDemon_100 Start: 4893, Stop: 5351, Start Num: 127
Candidate Starts for SpeedDemon_100:
(Start: 127 @4893 has 1 MA's), (251, 5040), (264, 5055), (272, 5070), (293, 5109), (314, 5151), (335, 5199), (409, 5319),

Gene: Sprinklers_91 Start: 39376, Stop: 39819, Start Num: 147
Candidate Starts for Sprinklers_91:
(Start: 147 @39376 has 66 MA's), (Start: 167 @39400 has 1 MA's), (Start: 192 @39436 has 2 MA's), (194, 39439), (272, 39541), (278, 39553), (300, 39598), (309, 39619), (324, 39652), (388, 39766), (395, 39778),

Gene: Squint_126 Start: 68600, Stop: 69130, Start Num: 132
Candidate Starts for Squint_126:
(Start: 132 @68600 has 2 MA's), (202, 68693), (207, 68702), (213, 68714), (237, 68753), (256, 68786), (299, 68861), (310, 68888), (316, 68900), (323, 68918), (327, 68924), (372, 69002),

Gene: SrishMeg2525_247 Start: 143222, Stop: 143671, Start Num: 151
Candidate Starts for SrishMeg2525_247:
(Start: 151 @143222 has 44 MA's), (195, 143261), (208, 143279), (231, 143312), (247, 143339), (273, 143372), (317, 143459), (343, 143501), (393, 143600),

Gene: Stellammi_108 Start: 53452, Stop: 53925, Start Num: 145
Candidate Starts for Stellammi_108:
(40, 53239), (45, 53257), (Start: 145 @53452 has 3 MA's), (Start: 175 @53491 has 2 MA's), (215, 53554), (228, 53572), (269, 53632), (314, 53722), (330, 53758), (379, 53836), (403, 53890), (414, 53920),

Gene: Stillion_3 Start: 2875, Stop: 3330, Start Num: 148
Candidate Starts for Stillion_3:
(Start: 148 @2875 has 3 MA's), (200, 2935), (223, 2959), (244, 2995), (269, 3034), (273, 3046),

Gene: Stillion_79 Start: 51945, Stop: 52373, Start Num: 147
Candidate Starts for Stillion_79:
(Start: 147 @51945 has 66 MA's), (189, 51987), (223, 52026), (268, 52092), (272, 52101), (273, 52104),

Gene: Stillion_83 Start: 53972, Stop: 54460, Start Num: 118
Candidate Starts for Stillion_83:
(83, 53909), (Start: 118 @53972 has 1 MA's), (Start: 151 @54011 has 44 MA's), (182, 54047), (244, 54125), (247, 54128), (248, 54131), (256, 54149), (273, 54164), (331, 54281), (335, 54290), (385, 54368),

Gene: Sting_3 Start: 2872, Stop: 3252, Start Num: 148

Candidate Starts for Sting_3:
(Start: 148 @2872 has 3 MA's), (223, 2956), (247, 2989), (269, 3016), (273, 3028), (275, 3031), (302, 3079), (330, 3142), (360, 3178), (388, 3232), (394, 3241),

Gene: StubbySaigey_256 Start: 142752, Stop: 143201, Start Num: 151
Candidate Starts for StubbySaigey_256:
(Start: 151 @142752 has 44 MA's), (195, 142791), (208, 142809), (231, 142842), (247, 142869), (273, 142902), (317, 142989), (343, 143031), (393, 143130),

Gene: StubbySaigey_98 Start: 39443, Stop: 39886, Start Num: 147
Candidate Starts for StubbySaigey_98:
(Start: 147 @39443 has 66 MA's), (Start: 167 @39467 has 1 MA's), (Start: 192 @39503 has 2 MA's), (194, 39506), (272, 39608), (278, 39620), (300, 39665), (309, 39686), (324, 39719), (388, 39833), (395, 39845),

Gene: Substance289_93 Start: 40429, Stop: 40872, Start Num: 147
Candidate Starts for Substance289_93:
(Start: 147 @40429 has 66 MA's), (Start: 167 @40453 has 1 MA's), (Start: 192 @40489 has 2 MA's), (194, 40492), (272, 40594), (278, 40606), (300, 40651), (309, 40672), (324, 40705), (388, 40819), (395, 40831),

Gene: Sushi23_223 Start: 114010, Stop: 114450, Start Num: 165
Candidate Starts for Sushi23_223:
(52, 113815), (61, 113851), (96, 113923), (98, 113929), (Start: 106 @113938 has 4 MA's), (131, 113968), (135, 113974), (Start: 138 @113977 has 4 MA's), (Start: 143 @113983 has 2 MA's), (Start: 165 @114010 has 12 MA's), (241, 114106), (278, 114157), (322, 114250), (367, 114322), (396, 114376), (412, 114409),

Gene: Tangent_16 Start: 13468, Stop: 13914, Start Num: 159
Candidate Starts for Tangent_16:
(Start: 142 @13447 has 4 MA's), (Start: 153 @13459 has 4 MA's), (Start: 159 @13468 has 14 MA's), (Start: 187 @13498 has 2 MA's), (Start: 193 @13507 has 2 MA's), (300, 13678), (309, 13711), (330, 13753), (341, 13774), (371, 13819), (392, 13855),

Gene: Targaryen_222 Start: 114182, Stop: 114622, Start Num: 165
Candidate Starts for Targaryen_222:
(96, 114095), (98, 114101), (Start: 106 @114110 has 4 MA's), (131, 114140), (135, 114146), (Start: 165 @114182 has 12 MA's), (241, 114278), (278, 114329), (322, 114422), (367, 114494), (396, 114548), (412, 114581),

Gene: Target_12 Start: 7244, Stop: 7699, Start Num: 138
Candidate Starts for Target_12:
(Start: 138 @7244 has 4 MA's), (173, 7277), (232, 7364), (271, 7424), (293, 7466), (330, 7544), (334, 7553), (384, 7634), (405, 7673),

Gene: Teardrop_140 Start: 81782, Stop: 82198, Start Num: 157
Candidate Starts for Teardrop_140:
(21, 81305), (Start: 157 @81782 has 25 MA's), (200, 81839), (253, 81902), (296, 81971), (317, 82016), (340, 82055),

Gene: Teardrop_248 Start: 142079, Stop: 142528, Start Num: 151
Candidate Starts for Teardrop_248:

(Start: 151 @142079 has 44 MA's), (195, 142118), (208, 142136), (231, 142169), (247, 142196), (273, 142229), (317, 142316), (343, 142358), (393, 142457),

Gene: TheloniousMonk_12 Start: 7471, Stop: 7926, Start Num: 138
Candidate Starts for TheloniousMonk_12:
(Start: 138 @7471 has 4 MA's), (173, 7504), (232, 7591), (271, 7651), (293, 7693), (330, 7771), (334, 7780), (384, 7861), (405, 7900),

Gene: TinyTim_248 Start: 142046, Stop: 142495, Start Num: 151
Candidate Starts for TinyTim_248:
(Start: 151 @142046 has 44 MA's), (195, 142085), (208, 142103), (231, 142136), (247, 142163), (273, 142196), (317, 142283), (343, 142325), (393, 142424),

Gene: ToastyFinz_42 Start: 32290, Stop: 32811, Start Num: 137
Candidate Starts for ToastyFinz_42:
(47, 32113), (92, 32227), (Start: 137 @32290 has 3 MA's), (211, 32383), (330, 32578), (367, 32629), (385, 32668), (395, 32698),

Gene: Tophat_101 Start: 63868, Stop: 64362, Start Num: 161
Candidate Starts for Tophat_101:
(87, 63760), (105, 63799), (Start: 161 @63868 has 95 MA's), (225, 63952), (272, 64024), (293, 64063), (417, 64333),

Gene: Tourach_95 Start: 60189, Stop: 60602, Start Num: 161
Candidate Starts for Tourach_95:
(Start: 161 @60189 has 95 MA's), (223, 60270), (239, 60300), (273, 60345), (275, 60348), (324, 60444), (370, 60498), (408, 60576), (414, 60594),

Gene: TriFive_93 Start: 59348, Stop: 59755, Start Num: 161
Candidate Starts for TriFive_93:
(Start: 161 @59348 has 95 MA's), (182, 59369), (273, 59498), (275, 59501), (315, 59579), (334, 59615), (398, 59702), (408, 59729),

Gene: Trinitium_92 Start: 39181, Stop: 39624, Start Num: 147
Candidate Starts for Trinitium_92:
(Start: 147 @39181 has 66 MA's), (Start: 167 @39205 has 1 MA's), (Start: 192 @39241 has 2 MA's), (194, 39244), (272, 39346), (278, 39358), (300, 39403), (309, 39424), (324, 39457), (388, 39571), (395, 39583),

Gene: Trinitium_246 Start: 140800, Stop: 141249, Start Num: 151
Candidate Starts for Trinitium_246:
(Start: 151 @140800 has 44 MA's), (195, 140839), (208, 140857), (231, 140890), (247, 140917), (273, 140950), (317, 141037), (343, 141079), (393, 141178),

Gene: Tubberson_43 Start: 31467, Stop: 31979, Start Num: 139
Candidate Starts for Tubberson_43:
(Start: 139 @31467 has 5 MA's), (184, 31524), (367, 31800), (395, 31869),

Gene: Tucker_41 Start: 26756, Stop: 26394, Start Num: 192
Candidate Starts for Tucker_41:
(Start: 192 @26756 has 2 MA's), (221, 26708), (296, 26609), (332, 26531), (377, 26471),

Gene: Tuesday_180 Start: 93091, Stop: 93477, Start Num: 193

Candidate Starts for Tuesday_180:
(Start: 116 @93004 has 1 MA's), (154, 93046), (Start: 193 @93091 has 2 MA's), (248, 93160), (300, 93247), (331, 93313),

Gene: Tyson_92 Start: 57702, Stop: 58112, Start Num: 161
Candidate Starts for Tyson_92:
(Start: 161 @57702 has 95 MA's), (Start: 192 @57732 has 2 MA's), (194, 57735), (223, 57780), (275, 57858), (299, 57900), (315, 57936), (345, 57978), (360, 57984), (383, 58032), (404, 58077), (414, 58104),

Gene: UPIE_65 Start: 44559, Stop: 45017, Start Num: 109
Candidate Starts for UPIE_65:
(Start: 109 @44559 has 5 MA's), (177, 44631), (251, 44721), (257, 44733), (273, 44754), (305, 44817), (317, 44844),

Gene: UPIE_90 Start: 57298, Stop: 57708, Start Num: 161
Candidate Starts for UPIE_90:
(Start: 161 @57298 has 95 MA's), (Start: 192 @57328 has 2 MA's), (194, 57331), (223, 57376), (275, 57454), (299, 57496), (315, 57532), (345, 57574), (360, 57580), (383, 57628), (404, 57673), (414, 57700),

Gene: Underpass_87 Start: 54335, Stop: 54748, Start Num: 161
Candidate Starts for Underpass_87:
(Start: 161 @54335 has 95 MA's), (239, 54446), (271, 54485), (275, 54494), (315, 54572), (370, 54644), (408, 54722), (414, 54740),

Gene: ValleyTerrace_96 Start: 40155, Stop: 40598, Start Num: 147
Candidate Starts for ValleyTerrace_96:
(Start: 147 @40155 has 66 MA's), (Start: 167 @40179 has 1 MA's), (Start: 192 @40215 has 2 MA's), (194, 40218), (272, 40320), (278, 40332), (300, 40377), (309, 40398), (324, 40431), (388, 40545), (395, 40557),

Gene: Vetrix_93 Start: 59073, Stop: 59486, Start Num: 161
Candidate Starts for Vetrix_93:
(Start: 161 @59073 has 95 MA's), (239, 59184), (271, 59223), (275, 59232), (315, 59310), (370, 59382), (408, 59460), (414, 59478),

Gene: Vibaki_76 Start: 46752, Stop: 47243, Start Num: 159
Candidate Starts for Vibaki_76:
(Start: 159 @46752 has 14 MA's), (320, 47013),

Gene: Vivi2_18 Start: 14618, Stop: 15085, Start Num: 142
Candidate Starts for Vivi2_18:
(Start: 142 @14618 has 4 MA's), (Start: 153 @14630 has 4 MA's), (Start: 159 @14639 has 14 MA's), (Start: 187 @14669 has 2 MA's), (Start: 193 @14678 has 2 MA's), (300, 14849), (309, 14882), (330, 14924), (341, 14945), (371, 14990), (392, 15026),

Gene: Vondra_43 Start: 30012, Stop: 30503, Start Num: 129
Candidate Starts for Vondra_43:
(Start: 129 @30012 has 11 MA's), (309, 30264), (317, 30279),

Gene: Wamburgrxpress_90 Start: 57426, Stop: 57836, Start Num: 161
Candidate Starts for Wamburgrxpress_90:

(Start: 161 @57426 has 95 MA's), (Start: 192 @57456 has 2 MA's), (194, 57459), (223, 57504), (275, 57582), (299, 57624), (315, 57660), (345, 57702), (360, 57708), (383, 57756), (404, 57801), (414, 57828),

Gene: Wamburgrxpress_65 Start: 44589, Stop: 45047, Start Num: 109
Candidate Starts for Wamburgrxpress_65:
(Start: 109 @44589 has 5 MA's), (177, 44661), (251, 44751), (257, 44763), (273, 44784), (305, 44847), (317, 44874),

Gene: Whirlwind_93 Start: 59575, Stop: 59982, Start Num: 161
Candidate Starts for Whirlwind_93:
(Start: 161 @59575 has 95 MA's), (182, 59596), (273, 59725), (275, 59728), (315, 59806), (334, 59842), (398, 59929), (408, 59956),

Gene: Whitspit_3 Start: 1078, Stop: 1587, Start Num: 158
Candidate Starts for Whitspit_3:
(Start: 158 @1078 has 8 MA's), (296, 1273), (300, 1282), (317, 1318), (428, 1540),

Gene: Wigglewiggle_95 Start: 59375, Stop: 59788, Start Num: 161
Candidate Starts for Wigglewiggle_95:
(Start: 161 @59375 has 95 MA's), (239, 59486), (273, 59531), (275, 59534), (324, 59630), (370, 59684), (408, 59762), (414, 59780),

Gene: Wilder_96 Start: 59217, Stop: 59630, Start Num: 161
Candidate Starts for Wilder_96:
(Start: 161 @59217 has 95 MA's), (239, 59328), (271, 59367), (275, 59376), (315, 59454), (370, 59526), (408, 59604), (414, 59622),

Gene: WillSterrel_87 Start: 51270, Stop: 51782, Start Num: 119
Candidate Starts for WillSterrel_87:
(Start: 116 @51267 has 1 MA's), (Start: 119 @51270 has 2 MA's), (170, 51330), (283, 51507), (311, 51567), (361, 51654), (393, 51720), (408, 51753),

Gene: Winky_95 Start: 59815, Stop: 60228, Start Num: 161
Candidate Starts for Winky_95:
(Start: 161 @59815 has 95 MA's), (239, 59926), (273, 59971), (275, 59974), (324, 60070), (370, 60124), (408, 60202), (414, 60220),

Gene: Wyatt2_92 Start: 57733, Stop: 58143, Start Num: 161
Candidate Starts for Wyatt2_92:
(Start: 161 @57733 has 95 MA's), (Start: 192 @57763 has 2 MA's), (194, 57766), (223, 57811), (275, 57889), (299, 57931), (315, 57967), (345, 58009), (360, 58015), (383, 58063), (404, 58108), (414, 58135),

Gene: Xavia_53 Start: 39307, Stop: 39837, Start Num: 110
Candidate Starts for Xavia_53:
(Start: 110 @39307 has 2 MA's), (Start: 157 @39364 has 25 MA's), (172, 39373), (213, 39436), (216, 39439), (238, 39475), (239, 39478), (246, 39487), (247, 39490), (273, 39532), (317, 39619), (404, 39781),

Gene: Yassified_92 Start: 39414, Stop: 39857, Start Num: 147
Candidate Starts for Yassified_92:

(Start: 147 @39414 has 66 MA's), (Start: 167 @39438 has 1 MA's), (Start: 192 @39474 has 2 MA's), (194, 39477), (272, 39579), (278, 39591), (300, 39636), (309, 39657), (324, 39690), (388, 39804), (395, 39816),

Gene: YorkOnyx_19 Start: 14161, Stop: 14622, Start Num: 159
Candidate Starts for YorkOnyx_19:
(Start: 142 @14140 has 4 MA's), (Start: 153 @14152 has 4 MA's), (Start: 159 @14161 has 14 MA's), (Start: 187 @14191 has 2 MA's), (225, 14242), (300, 14371), (330, 14446), (341, 14467), (371, 14512),

Gene: YoungHarleezy_70 Start: 37357, Stop: 37845, Start Num: 156
Candidate Starts for YoungHarleezy_70:
(Start: 156 @37357 has 3 MA's), (Start: 161 @37363 has 95 MA's), (Start: 181 @37393 has 3 MA's), (407, 37789),

Gene: YoungMoneyMata_96 Start: 39906, Stop: 40349, Start Num: 147
Candidate Starts for YoungMoneyMata_96:
(Start: 147 @39906 has 66 MA's), (Start: 167 @39930 has 1 MA's), (Start: 192 @39966 has 2 MA's), (194, 39969), (272, 40071), (278, 40083), (300, 40128), (309, 40149), (324, 40182), (388, 40296), (395, 40308),

Gene: Yucca_250 Start: 143605, Stop: 144054, Start Num: 151
Candidate Starts for Yucca_250:
(Start: 151 @143605 has 44 MA's), (195, 143644), (208, 143662), (231, 143695), (247, 143722), (273, 143755), (317, 143842), (343, 143884), (393, 143983),

Gene: Yvonnetastic_131 Start: 74014, Stop: 74502, Start Num: 117
Candidate Starts for Yvonnetastic_131:
(Start: 117 @74014 has 1 MA's), (171, 74062), (Start: 183 @74080 has 1 MA's), (258, 74179), (325, 74311), (357, 74356),

Gene: Zakai_96 Start: 59860, Stop: 60273, Start Num: 161
Candidate Starts for Zakai_96:
(Start: 161 @59860 has 95 MA's), (239, 59971), (271, 60010), (275, 60019), (315, 60097), (370, 60169), (408, 60247), (414, 60265),

Gene: Zaria_91 Start: 56841, Stop: 57251, Start Num: 161
Candidate Starts for Zaria_91:
(Start: 161 @56841 has 95 MA's), (Start: 192 @56871 has 2 MA's), (194, 56874), (223, 56919), (275, 56997), (299, 57039), (315, 57075), (345, 57117), (360, 57123), (383, 57171), (404, 57216), (414, 57243),

Gene: ZhongYanYuan_92 Start: 59271, Stop: 59684, Start Num: 161
Candidate Starts for ZhongYanYuan_92:
(Start: 161 @59271 has 95 MA's), (239, 59382), (271, 59421), (275, 59430), (315, 59508), (370, 59580), (408, 59658), (414, 59676),

Gene: Zulu_41 Start: 26737, Stop: 26375, Start Num: 192
Candidate Starts for Zulu_41:
(Start: 192 @26737 has 2 MA's), (221, 26689), (296, 26590), (332, 26512), (377, 26452),

Gene: ZygoTaiga_246 Start: 143902, Stop: 144351, Start Num: 151
Candidate Starts for ZygoTaiga_246:

(Start: 151 @143902 has 44 MA's), (195, 143941), (208, 143959), (231, 143992), (247, 144019), (273, 144052), (317, 144139), (343, 144181), (393, 144280),

Gene: phiHau3_61 Start: 41644, Stop: 41168, Start Num: 166
Candidate Starts for phiHau3_61:
(Start: 166 @41644 has 1 MA's), (212, 41575), (285, 41452), (293, 41440), (305, 41416), (309, 41404), (346, 41344),