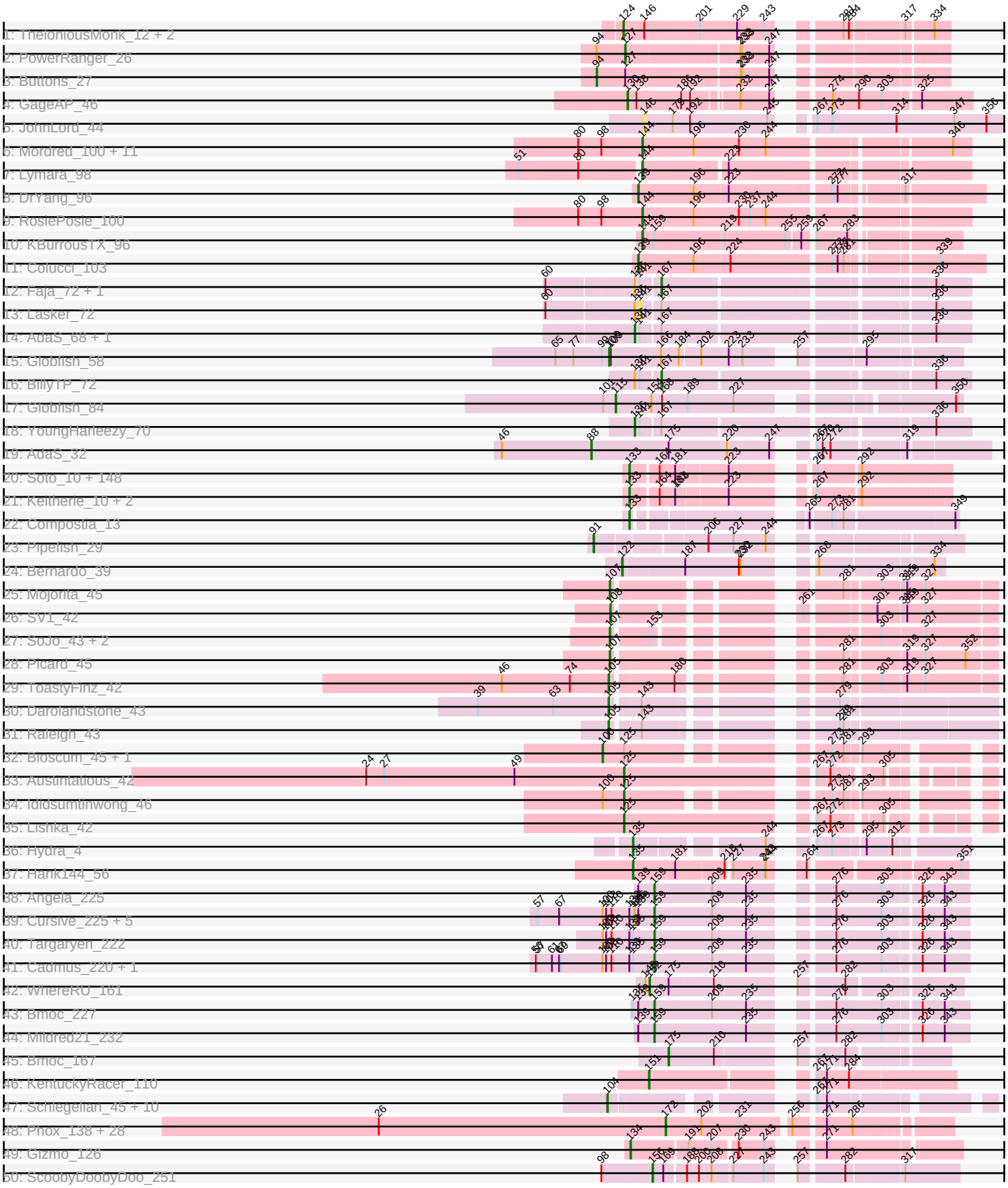
Pham 304602


1: TheloniousMonk_12 + 2
2: PowerRanger_26
3: Buttons_27
4: GageAP_46
5: JohnLord_44
6: Mordred_100 + 11
7: Lymara_98
8: DrYang_96
9: RosiePosie_100
10: KBurrousTX_96
11: Colucci_103
12: Faja_72 + 1
13: Lasker_72
14: AdaS_68 + 1
15: Globfish_58
16: BillyTP_72
17: Globfish_84
18: YoungHaneezy_70
19: AdaS_32
20: Soto_10 + 148
21: Keitherie_10 + 2
22: Compostia_13
23: Pipefish_29
24: Bernardo_39
25: Mojorita_45
26: SV1_42
27: SoJo_43 + 2
28: Picard_45
29: ToastyFinz_42
30: Darolandstone_43
31: Raleigh_43
32: Bloscum_45 + 1
33: Austintatious_42
34: Ididsumtinwong_46
35: Lishka_42
36: Hydra_4
37: Hank144_56
38: Angela_225
39: Cursive_225 + 5
40: Targaryen_222
41: Cadmus_220 + 1
42: WhereRU_161
43: Bmoc_227
44: Mildred21_232
45: Bmoc_167
46: KentuckyRacer_110
47: Schlegelian_45 + 10
48: Phox_138 + 28
49: Gizmo_126
50: ScoobyDoobyDoo_251

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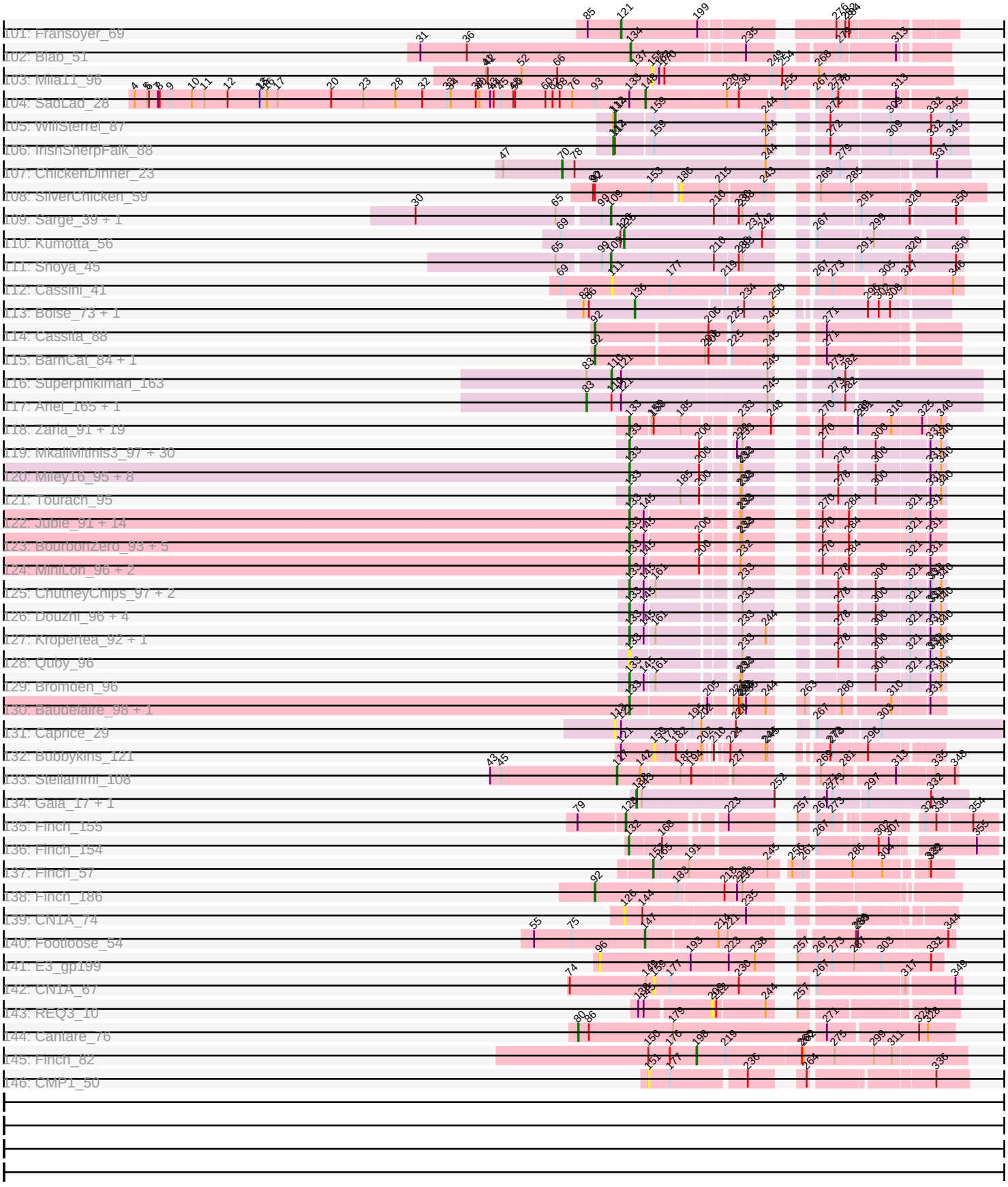
51: Grayson_217
52: Jollymon_3 + 2
53: Makar_96
54: Sting_3
55: EnalisNallo_59
56: EMsquaredA_63 + 3
57: Bradissa_67 + 2
58: Lton_30
59: Neobush_64
60: Matteo_53
61: LordFarquaad_67
62: BaxterFox_65
63: Yvonnetastic_131
64: Lennon_20 + 1
65: Geodirt_33
66: Tangent_16 + 9
67: McCrothy_19
68: Love_55 + 3
69: Rolo_18
70: Saronaya_49 + 2
71: YorkOnyx_50 + 1
72: Kamashten_49 + 1
73: YorkOnyx_19
74: Angelicage_48 + 5
75: Baddon_49
76: Afleca_48
77: Kroos_19
78: Sedona_50
79: Barsten_19
80: Kwobi_20
81: Kwobi_51
82: MoonflowerMania_50
83: Sitar_20
84: GMA3_25
85: PhorbesPhlower_38
86: SpeedDemon_100
87: Phistory_56
88: Crater_54 + 1
89: Farrylious_96 + 3
90: GMA6_35
91: GMA6_79
92: RedWattleHog_27
93: ObLaDi_20
94: Calasso_20
95: ModicumRichard_20
96: Calasso_94
97: BaboJay_80 + 3
98: Bogg_83
99: SophKB_98
100: AluminumJesus_51

Pham 304602


101: Fransoyer_69
102: Blab_51
103: Mila11_96
104: SadLad_28
105: WillSterrel_87
106: IrishSherpFalk_88
107: ChickenDinner_23
108: SilverChicken_59
109: Sarge_39 + 1
110: Kumotta_56
111: Shoya_45
112: Cassini_41
113: Boise_73 + 1
114: Cassita_88
115: BarnCat_84 + 1
116: Superphikiman_163
117: Ariel_165 + 1
118: Zaria_91 + 19
119: MikaiMitmis3_97 + 30
120: Miley16_95 + 8
121: Tourach_95
122: Jubie_91 + 14
123: BourbonZero_93 + 5
124: MiniLon_96 + 2
125: ChutneyChips_97 + 2
126: Douzhi_96 + 4
127: Kropertea_92 + 1
128: Quby_96
129: Bromden_96
130: Baudelaire_98 + 1
131: Caprice_29
132: Bubbykins_121
133: Stellammi_108
134: Gaia_17 + 1
135: Finch_155
136: Finch_154
137: Finch_57
138: Finch_186
139: CNIA_74
140: Footloose_54
141: E3_gp199
142: CNIA_67
143: REQ3_10
144: Cantare_76
145: Finch_82
146: CMP1_50

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 304602 Report

This analysis was run 06/08/26 on database version 649.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 304602 has 485 members, 54 are drafts.

Phages represented in each track:
• Track 1 : TheloniousMonk_12, Target_12, Gwendoluna_12
• Track 2 : PowerRanger_26
• Track 3 : Buttons_27
• Track 4 : GageAP_46
• Track 5 : JohnLord_44
• Track 6 : Mordred_100, Tophat_101, Chipper1996_1010, HumptyDumpty_100, Chubster_100, PrincessTrina_101, JaNo_99, Chocolat_100, Kabreeze_100, Scavito_101, Linus_100, EdgarPoe_100
• Track 7 : Lymara_98
• Track 8 : DrYang_96
• Track 9 : RosiePosie_100
• Track 10 : KBurrousTX_96
• Track 11 : Colucci_103
• Track 12 : Faja_72, Hestia_63
• Track 13 : Lasker_72
• Track 14 : AdaS_68, BenchScraper_71
• Track 15 : Globfish_58
• Track 16 : BillyTP_72
• Track 17 : Globfish_84
• Track 18 : YoungHarleezy_70
• Track 19 : AdaS_32
• Track 20 : Soto_10, HSavage_10, Zaider_11, Gyarad_0010, Fringe_10, Numberten_10, JacAttac_10, Phamished_10, OliverWalter_10, Andre_10, OSmaximus_10, Gwilliam_10, Yoshand_10, Etaye_10, Vivaldi_10, Plmatters_10, Melc17_10, Nacho_0010, CheetO_10, Hartsy_10, CamL_10, Morty_10, Roscoe_11, Weher20_10, Serpentine_0010, ABU_10, KlimbOn_10, BlueHusk_10, Hamish_10, Suffolk_10, ShadowBud_10, Mikota_10, Vista_10, ThreeOh3D2_10, PhatLouie_10, Aonishiki_10, Serendipity_10, Inchworm_10, Olive_10, Swish_10, Gwennie1_10, Pherdinand_10, Riverton_10, Surely_10, Nicole21_10, Hetaeria_10, Slatt_10, KLucky39_10, Kikipoo_10, Valjean_10, Virapocalypse_10, Pipsqueak_10, Murdoc_10, MiniBoss_10, Prickles_10, FluffyNinja_10, Gophee_10, Daka_10, AngelCake_10, Horchata_10, RedRaider89_11, Magic8_10, Zonia_10, Boehler_10, JangoPhett_10, DoesntMatter_10, BlackStallion_10, Puhltonio_10, Durga_10,

Sigman_10, Riggan_10, UAch1_10, Mesh1_10, Fang_10, TomBombadil_10, Quisquiliae_10, Phipps_10, Craff_10, Waterdiva_10, PhrodoBaggins_105, Podrick_10, FriarPreacher_10, Scoot17C_10, Lasso_10, Sheila_10, Samaymay_10, Tooj_10, SDcharge11_10, ProfessorX_10, AltPhacts_10, Orion_10, Lulwa_10, Kailash_10, Newman_10, Emiris_10, Charles1_10, PG1_10, Megatron_10, Cobra_10, QueenBeane_10, Omniscient_10, LeeLot_10, IsaacEli_10, ElvisPhasley_10, Pops_10, Iridoclysis_10, Chunky_10, Lego3393_10, DirtJuice_10, CampRoach_10, Dingo_10, Oosterbaan_10, Anderson_10, Roliet_10, Harvey_10, Tomlarah_10, Matalotodo_10, GeneCoco_10, Spartan300_10, Chah_10, Cannibal_10, Inverness_10, Hertubise_10, Zelda_10, EmpTee_10, Badfish_10, Adriana_10, Thora_10, LasagnaCat_10, Frankicide_10, Eremos_10, Basato_11, Katniss_10, Buckeye_10, Colbert_10, Trypo_10, Haimas_10, TooFast2Furius_11, Skippy_10, Usavi_10, Swiphy_10, Phunky_10, YouGoGlencoco_10, Eugenia_10, ShiVal_10, KingVeVeVe_10, Kloppinator_10, Nathan_10, PhatCats2014_10
• Track 21 : Keitherie_10, Flake_10, Coletti_10
• Track 22 : Compostia_13
• Track 23 : Pipefish_29
• Track 24 : Bernardo_39
• Track 25 : Mojorita_45
• Track 26 : SV1_42
• Track 27 : SoJo_43, DaRealMyers_43, Tubberson_43
• Track 28 : Picard_45
• Track 29 : ToastyFinz_42
• Track 30 : Darolandstone_43
• Track 31 : Raleigh_43
• Track 32 : Bioscum_45, PapayaSalad_44
• Track 33 : Austintatious_42
• Track 34 : Ididsumtinwong_46
• Track 35 : Lishka_42
• Track 36 : Hydra_4
• Track 37 : Hank144_56
• Track 38 : Angela_225
• Track 39 : Cursive_225, Lululemon_219, PacManQ_219, Shuckle_221, Sushi23_223, Larnav_222
• Track 40 : Targaryen_222
• Track 41 : Cadmus_220, Daubenski_216
• Track 42 : WhereRU_161
• Track 43 : Bmoc_227
• Track 44 : Mildred21_232
• Track 45 : Bmoc_167
• Track 46 : KentuckyRacer_110
• Track 47 : Schlegelian_45, AxeJC_43, Ignacio_44, ArizonaGT_45, FrumpyGal_45, Cumberbatch_45, Eastland_44, Piccadilly_44, Eklok_44, HFrancette_45, Vondra_43
• Track 48 : Phox_138, LRRHood_134, Jessibeth14_140, Burrough_141, MikeLiesIn_142, Teardrop_140, LolaVinca_141, HyRo_132, ChickenPhender_137, Pio_145, Moby_134, CharlieB_138, SVoro_139, Shaqnato_134, Cane17_133, Lukilu_131, Moiqah_133, Bezza_130, Fludd_142, Breeniome_140, Mangeria_141, Bxz1_138, Rabinovish_140, Shelob_143, SoilZilla_137, DeejaClivia_128, Cali_136, Koguma_138, Shifa_130
• Track 49 : Gizmo_126
• Track 50 : ScoobyDoobyDoo_251
• Track 51 : Grayson_217
• Track 52 : Jollymon_3, ColdSoup_3, Amo99_3

• Track 53 : Makar_96
• Track 54 : Sting_3
• Track 55 : EnalisNailo_59
• Track 56 : EMsquaredA_63, Pollux_66, Floral_64, Marteena_62
• Track 57 : Bradissa_67, Lilas_67, EnalisNailo_66
• Track 58 : Lton_30
• Track 59 : Neobush_64
• Track 60 : Matteo_53
• Track 61 : LordFarquaad_67
• Track 62 : BaxterFox_65
• Track 63 : Yvonnetastic_131
• Track 64 : Lennon_20, Vivi2_18
• Track 65 : Geodirt_33
• Track 66 : Tangent_16, Love_20, Galadriel_20, Bibwit_19, Charming_16, Fosterous_16, Paries_19, BobBob_16, Keitabear_20, Nordenberg_13
• Track 67 : McCrothy_19
• Track 68 : Love_55, Kewpiedoll_51, Ailee_47, Shivanishola_50
• Track 69 : Rofo_18
• Track 70 : Saronaya_49, JKSyngboy_47, Gustavo_49
• Track 71 : YorkOnyx_50, Bibwit_48
• Track 72 : Kamashten_49, Thing3_49
• Track 73 : YorkOnyx_19
• Track 74 : Angelicage_48, Sitar_50, Lennon_50, Vivi2_54, Keitabear_50, McCrothy_51
• Track 75 : Baddon_49
• Track 76 : Affeca_48
• Track 77 : Kroos_19
• Track 78 : Sedona_50
• Track 79 : Barsten_19
• Track 80 : Kwobi_20
• Track 81 : Kwobi_51
• Track 82 : MoontowerMania_50
• Track 83 : Sitar_20
• Track 84 : GMA3_25
• Track 85 : PhorbesPhlower_38
• Track 86 : SpeedDemon_100
• Track 87 : Phistory_56
• Track 88 : Crater_54, Apricot_54
• Track 89 : Farrylious_96, ChisanaKitsune_96, Argena_96, MintFritos_94
• Track 90 : GMA6_35
• Track 91 : GMA6_79
• Track 92 : RedWattleHog_27
• Track 93 : ObLaDi_20
• Track 94 : Cafasso_20
• Track 95 : ModicumRichard_20
• Track 96 : Cafasso_94
• Track 97 : BaboJay_80, Manda_84, Goku_81, Eureka_81
• Track 98 : Bogg_83
• Track 99 : SophKB_98
• Track 100 : AluminumJesus_51
• Track 101 : Fransoyer_69
• Track 102 : Blab_51
• Track 103 : Mila11_96

• Track 104 : SadLad_28
• Track 105 : WillSterrel_87
• Track 106 : IrishSherpFalk_88
• Track 107 : ChickenDinner_23
• Track 108 : SilverChicken_59
• Track 109 : Sarge_39, Rooter_42
• Track 110 : Kumotta_56
• Track 111 : Shoya_45
• Track 112 : Cassini_41
• Track 113 : Boise_73, RomansRevenge_75
• Track 114 : Cassita_88
• Track 115 : BarnCat_84, LeeroyJenkins_94
• Track 116 : Superphikiman_163
• Track 117 : Ariel_165, Courthouse_162
• Track 118 : Zaria_91, Tyson_92, DirkDirk_88, Enceladus_88, Halena_88, MAckerman_89, OhShagHennessy_87, Wamburgrxpress_90, LeBron_90, Rose5_92, Calm_92, Silverleaf_90, Appletree2_90, UPIE_90, JoeDirt_92, AvadaKedavra_91, Wyatt2_92, Acquire49_91, CicholasNage_88, Poochiewood_89
• Track 119 : MkaliMitinis3_97, DHan_98, Underpass_87, Hafay_96, Claus_94, Lynnae_96, BobsGarage_94, Rossetti_95, LilDestine_93, DanBing_94, Bazzle_92, Wilder_96, Rumpelstiltskin_91, Finemlucis_96, SoJulia_97, Loadrie_94, BigCheese_95, Archie_92, Kahlid_94, Nicholasp3_95, OverPar_97, Vetrix_93, Sarshaun_96, GuuelaD_92, Baoshan_95, Lewan_96, Zakai_96, Crossroads_95, Soap141_95, ZhongYanYuan_92, Gardann_95
• Track 120 : Miley16_95, Netyap_94, Faith1_95, DrSeegs_94, Itos_95, Breezona_95, Winky_95, Wigglewiggle_95, Gabriela_95
• Track 121 : Tourach_95
• Track 122 : 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 123 : BourbonZero_93, Ellson_91, LiyuLake_91, Krypton555_94, KirDoubleO7_90, DuncansLeg_92
• Track 124 : MiniLon_96, MiniMac_96, Lolly9_91
• Track 125 : ChutneyChips_97, Chaser_95, FarmResident_97
• Track 126 : Douzhi_96, PYPDinur_96, Sheng711_97, Douge_96, BrainDrainer_97
• Track 127 : Kropertea_92, DyoEdafos_98
• Track 128 : Quby_96
• Track 129 : Bromden_96
• Track 130 : Baudelaire_98, Aegeus_98
• Track 131 : Caprice_29
• Track 132 : Bubbykins_121
• Track 133 : Stellammi_108
• Track 134 : Gaia_17, Nebkiss_18
• Track 135 : Finch_155
• Track 136 : Finch_154
• Track 137 : Finch_57
• Track 138 : Finch_186
• Track 139 : CN1A_74
• Track 140 : Footloose_54
• Track 141 : E3_gp199
• Track 142 : CN1A_67
• Track 143 : REQ3_10
• Track 144 : Cantare_76

• Track 145 : Finch_82
• Track 146 : 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 133, it was called in 242 of the 431 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABU_10, Acquire49_91, Adriana_10, Aegeus_98, AltPhacts_10, Anderson_10, Andre_10, AngelCake_10, Aonishiki_10, Appletree2_90, Archie_92, AvadaKedavra_91, Badfish_10, Baoshan_95, Barsten_19, Basato_11, Baudelaire_98, Bazzle_92, Bellis_92, Bibwit_19, BigCheese_95, BlackStallion_10, BlueHusk_10, BobBob_16, BobsGarage_94, Boehler_10, BourbonZero_93, BrainDrainer_97, Breezona_95, Bromden_96, Buckeye_10, Calm_92, CamL_10, CampRoach_10, Cannibal_10, Chah_10, Charles1_10, Charming_16, Chaser_95, CheetO_10, Chunky_10, ChutneyChips_97, CicholasNage_88, Claus_94, Clautastrophe_90, Cobra_10, Colbert_10, Coletti_10, Compostia_13, Craff_10, Crossroads_95, DHan_98, Daka_10, DanBing_94, Dingo_10, DirkDirk_88, DirtJuice_10, DoesntMatter_10, Douge_96, Douzhi_96, DrSeegs_94, DuncansLeg_92, Durga_10, DyoEdafos_98, Ellson_91, ElvisPhasley_10, Emiris_10, EmpTee_10, Enceladus_88, Eremos_10, Etaye_10, Eugenia_10, Faith1_95, Fang_10, FarmResident_97, Finemlucis_96, Finnry_92, Flake_10, FluffyNinja_10, Fosterous_16, Frankicide_10, FriarPreacher_10, Fringe_10, Gabriela_95, Galadriel_20, Gardann_95, GeneCoco_10, Gophee_10, GuuelaD_92, Gwennie1_10, Gwilliam_10, Gyarad_0010, HSavage_10, Hafay_96, Haimas_10, Halena_88, Hamish_10, Hartsy_10, Harvey_10, Hertubise_10, Hetaeria_10, Horchata_10, Inchworm_10, Inverness_10, Iridoclysis_10, IsaacEli_10, Itos_95, JacAttac_10, JangoPhett_10, Jobypre_92, JoeDirt_92, Jubie_91, KLucky39_10, Kahlid_94, Kailash_10, Katniss_10, Keitabear_20, Keitherie_10, Kikipoo_10, KingVeVeVe_10, Kingsolomon_90, KirDoubleO7_90, KlimbOn_10, Kloppinator_10, Kropertea_92, Krypton555_94, LasagnaCat_10, Lasso_10, LeBron_90, LeeLot_10, Lego3393_10, Lewan_96, LilDestine_93, LiyuLake_91, Loadrie_94, Lolly9_91, Love_20, Lulwa_10, Lumos_92, Lynnae_96, MAckerman_89, Magic8_10, Matalotodo_10, Megatron_10, Melc17_10, Mesh1_10, Mikota_10, Miley16_95, MiniBoss_10, MiniLon_96, MiniMac_96, MkaliMitinis3_97, Moostard_89, Morty_10, MsGreen_92, Murdoc_10, Nacho_0010, Nathan_10, Netyap_94, Newman_10, Nicholas_90, Nicholasp3_95, Nicole21_10, Nordenberg_13, Numberten_10, OSmaximus_10, OhShagHennessy_87, Olive_10, OliverWalter_10, Omniscient_10, Oosterbaan_10, Orion_10, OverPar_97, PG1_10, PYPDinur_96, Paries_19, Phamished_10, PhatCats2014_10, PhatLouie_10, Pherdinand_10, Phipps_10, PhrodoBaggins_105, Phunky_10, Pipsqueak_10, Plmatters_10, Podrick_10, Poochiewood_89, Pops_10, Prickles_10, ProfessorX_10, Puhltonio_10, Quby_96, QueenBeane_10, Quisquiliae_10, Red305_93, RedRaider89_11, Riggan_10, Riverton_10, Roliet_10, Roscoe_11, Rose5_92, Rossetti_95, Rumpelstiltskin_91, SDcharge11_10, Samaymay_10, Samty_91, Sarshaun_96, Scoot17C_10, Serendipity_10, Serpentine_0010, ShadowBud_10, Sheila_10, Sheng711_97, ShiVal_10, Sigman_10, Silverleaf_90, Skippy_10, Slatt_10, Snenia_91, SoJulia_97, Soap141_95, Soto_10, Spartan300_10, Suffolk_10, Surely_10, Swiphy_10, Swish_10, Tangent_16, Thora_10, ThreeOh3D2_10, TomBombadil_10, Tomlarah_10, TooFast2Furius_11,

Tooj_10, Tourach_95, TriFive_93, Trypo_10, Tyson_92, UAch1_10, UPIE_90, Underpass_87, Usavi_10, Valjean_10, Vetrix_93, Virapocalypse_10, Vista_10, Vivaldi_10, Wamburgrxpress_90, Waterdiva_10, Weher20_10, Whirlwind_93, Wigglewiggle_95, Wilder_96, Winky_95, Wyatt2_92, YorkOnyx_19, Yoshand_10, YouGoGlencoco_10, Zaider_11, Zakai_96, Zaria_91, Zelda_10, ZhongYanYuan_92, Zonia_10,

Genes that have the "Most Annotated" start but do not call it:
• Cadmus_220, Cursive_225, Daubenski_216, Kroos_19, Kwobi_20, Larnav_222, Lennon_20, Lululemon_219, McCrothy_19, PacManQ_219, Rofo_18, SadLad_28, Shuckle_221, Sitar_20, Sushi23_223, Targaryen_222, Vivi2_18,

Genes that do not have the "Most Annotated" start:
• AdaS_32, AdaS_68, Affeca_48, Ailee_47, AluminumJesus_51, Amo99_3, Angela_225, Angelicage_48, Apricot_54, Argena_96, Ariel_165, ArizonaGT_45, Austintatious_42, AxeJC_43, BaboJay_80, Baddon_49, BarnCat_84, BaxterFox_65, BenchScraper_71, Bernardo_39, Bezza_130, Bibwit_48, BillyTP_72, Bioscum_45, Blab_51, Bmoc_167, Bmoc_227, Bogg_83, Boise_73, Bradissa_67, Breeniome_140, Bubbykins_121, Burrough_141, Buttons_27, Bxz1_138, CMP1_50, CN1A_67, CN1A_74, Cafasso_20, Cafasso_94, Cali_136, Cane17_133, Cantare_76, Caprice_29, Cassini_41, Cassita_88, CharlieB_138, ChickenDinner_23, ChickenPhender_137, Chipper1996_1010, ChisanaKitsune_96, Chocolat_100, Chubster_100, ColdSoup_3, Colucci_103, Courthouse_162, Crater_54, Cumberbatch_45, DaRealMyers_43, Darolandstone_43, DeejaClivia_128, DrYang_96, E3_gp199, EMsquaredA_63, Eastland_44, EdgarPoe_100, Eklok_44, EnalisNailo_59, EnalisNailo_66, Eureka_81, Faja_72, Farrylious_96, Finch_154, Finch_155, Finch_186, Finch_57, Finch_82, Floral_64, Fludd_142, Footloose_54, Fransoyer_69, FrumpyGal_45, GMA3_25, GMA6_35, GMA6_79, GageAP_46, Gaia_17, Geodirt_33, Gizmo_126, Globfish_58, Globfish_84, Goku_81, Grayson_217, Gustavo_49, Gwendoluna_12, HFrancette_45, Hank144_56, Hestia_63, HumptyDumpty_100, HyRo_132, Hydra_4, Ididsumtinwong_46, Ignacio_44, IrishSherpFalk_88, JKSyngboy_47, JaNo_99, Jessibeth14_140, JohnLord_44, Jollymon_3, KBurrousTX_96, Kabreeze_100, Kamashten_49, Keitabear_50, KentuckyRacer_110, Kewpiedoll_51, Koguma_138, Kumotta_56, Kwobi_51, LRRHood_134, Lasker_72, LeeroyJenkins_94, Lennon_50, Lilas_67, Linus_100, Lishka_42, LolaVinca_141, LordFarquaad_67, Love_55, Lton_30, Lukilu_131, Lymara_98, Makar_96, Manda_84, Mangeria_141, Marteena_62, Matteo_53, McCrothy_51, MikeLiesIn_142, Mila11_96, Mildred21_232, MintFritos_94, Moby_134, ModicumRichard_20, Moiqah_133, Mojorita_45, MoontowerMania_50, Mordred_100, Nebkiss_18, Neobush_64, ObLaDi_20, PapayaSalad_44, Phistory_56, PhorbesPhlower_38, Phox_138, Picard_45, Piccadilly_44, Pio_145, Pipefish_29, Pollux_66, PowerRanger_26, PrincessTrina_101, REQ3_10, Rabinovish_140, Raleigh_43, RedWattleHog_27, RomansRevenge_75, Rooter_42, RosiePosie_100, SV1_42, SVoro_139, Sarge_39, Saronaya_49, Scavito_101, Schlegelian_45, ScoobyDoobyDoo_251, Sedona_50, Shaqnato_134, Shelob_143, Shifa_130, Shivanishola_50, Shoya_45, SilverChicken_59, Sitar_50, SoJo_43, SoilZilla_137, SophKB_98, SpeedDemon_100, Stellammi_108, Sting_3, Superphikiman_163, Target_12, Teardrop_140, TheloniousMonk_12, Thing3_49, ToastyFinz_42, Tophat_101, Tubberson_43, Vivi2_54, Vondra_43, WhereRU_161, WillSterrel_87, YorkOnyx_50, YoungHarleezy_70, Yvonnetastic_131,

Summary by start number:

Start 70:
• Found in 1 of 485 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ChickenDinner_23 (F1),

Start 80:
• Found in 15 of 485 (3.1%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 6.7% of time when present
• Phage (with cluster) where this start called: Cantare_76 (singleton),

Start 83:
• Found in 3 of 485 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 431
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Ariel_165 (J), Courthouse_162 (J),

Start 84:
• Found in 10 of 485 (2.1%) of genes in pham
• Manual Annotations of this start: 5 of 431
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Angelicage_48 (DE1), Keitabear_50 (DE1), Lennon_50 (DE1), McCrothy_51 (DE1), Sitar_50 (DE1), Vivi2_54 (DE1),

Start 88:
• Found in 1 of 485 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AdaS_32 (AY),

Start 91:
• Found in 1 of 485 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pipefish_29 (B3),

Start 92:
• Found in 9 of 485 (1.9%) of genes in pham
• Manual Annotations of this start: 4 of 431
• Called 44.4% of time when present
• Phage (with cluster) where this start called: BarnCat_84 (GB), Cassita_88 (GB), Finch_186 (singleton), LeeroyJenkins_94 (GB),

Start 94:
• Found in 3 of 485 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Buttons_27 (A1),

Start 96:
• Found in 1 of 485 (0.2%) of genes in pham
• No Manual Annotations of this start.

• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp199 (singleton),

Start 100:
• Found in 34 of 485 (7.0%) of genes in pham
• Manual Annotations of this start: 18 of 431
• Called 52.9% of time when present
• Phage (with cluster) where this start called: Affeca_48 (DE1), Ailee_47 (DE1), Baddon_49 (DE1), Bibwit_48 (DE1), Bioscum_45 (BC3), Gustavo_49 (DE1), JKSyngboy_47 (DE1), Kamashten_49 (DE1), Kewpiedoll_51 (DE1), Kwobi_51 (DE1), Love_55 (DE1), MoontowerMania_50 (DE1), PapayaSalad_44 (BC3), Saronaya_49 (DE1), Sedona_50 (DE1), Shivanishola_50 (DE1), Thing3_49 (DE1), YorkOnyx_50 (DE1),

Start 104:
• Found in 12 of 485 (2.5%) of genes in pham
• Manual Annotations of this start: 12 of 431
• 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), Lton_30 (CZ), Piccadilly_44 (BP), Schlegelian_45 (BP), Vondra_43 (BP),

Start 105:
• Found in 3 of 485 (0.6%) of genes in pham
• Manual Annotations of this start: 3 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Darolandstone_43 (BC2), Raleigh_43 (BC2), ToastyFinz_42 (BC1),

Start 106:
• Found in 1 of 485 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Globfish_58 (AY),

Start 107:
• Found in 5 of 485 (1.0%) of genes in pham
• Manual Annotations of this start: 4 of 431
• 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 108:
• Found in 4 of 485 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 25.0% of time when present
• Phage (with cluster) where this start called: SV1_42 (BC1),

Start 109:
• Found in 5 of 485 (1.0%) of genes in pham
• Manual Annotations of this start: 3 of 431
• Called 80.0% of time when present

• Phage (with cluster) where this start called: Rooter_42 (FB), Sarge_39 (FB), Shoya_45 (FB), SpeedDemon_100 (DL),

Start 110:
• Found in 12 of 485 (2.5%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Superphikiman_163 (J),

Start 111:
• Found in 2 of 485 (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: Cassini_41 (FN),

Start 112:
• Found in 3 of 485 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 33.3% of time when present
• Phage (with cluster) where this start called: IrishSherpFalk_88 (F1),

Start 113:
• Found in 1 of 485 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Caprice_29 (S),

Start 114:
• Found in 6 of 485 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 16.7% of time when present
• Phage (with cluster) where this start called: WillSterrel_87 (F1),

Start 115:
• Found in 5 of 485 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Globfish_84 (AY),

Start 116:
• Found in 17 of 485 (3.5%) of genes in pham
• Manual Annotations of this start: 2 of 431
• Called 11.8% of time when present
• Phage (with cluster) where this start called: Lennon_20 (DE1), Vivi2_18 (DE1),

Start 117:
• Found in 1 of 485 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stellammi_108 (UNK),

Start 119:
• Found in 1 of 485 (0.2%) of genes in pham

• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA6_79 (DQ),

Start 121:
• Found in 11 of 485 (2.3%) of genes in pham
• Manual Annotations of this start: 5 of 431
• Called 54.5% of time when present
• Phage (with cluster) where this start called: Cafasso_20 (DZ), Fransoyer_69 (EG), GMA6_35 (DQ), Geodirt_33 (DE1), ModicumRichard_20 (DZ), ObLaDi_20 (DZ),

Start 122:
• Found in 2 of 485 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Bernardo_39 (B3),

Start 124:
• Found in 22 of 485 (4.5%) of genes in pham
• Manual Annotations of this start: 5 of 431
• Called 22.7% of time when present
• Phage (with cluster) where this start called: Gwendoluna_12 (A1), Kwobi_20 (DE1), Sitar_20 (DE1), Target_12 (A1), TheloniousMonk_12 (A1),

Start 125:
• Found in 7 of 485 (1.4%) of genes in pham
• Manual Annotations of this start: 4 of 431
• Called 71.4% of time when present
• Phage (with cluster) where this start called: Austintatious_42 (BC3), GMA3_25 (DF2), Ididsumtinwong_46 (BC3), Kumotta_56 (FB), Lishka_42 (BC3),

Start 126:
• Found in 1 of 485 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CN1A_74 (singleton),

Start 127:
• Found in 2 of 485 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 50.0% of time when present
• Phage (with cluster) where this start called: PowerRanger_26 (A1),

Start 128:
• Found in 3 of 485 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 431
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Finch_155 (singleton), Yvonnetastic_131 (DD),

Start 130:
• Found in 1 of 485 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 431

• Called 100.0% of time when present
• Phage (with cluster) where this start called: GageAP_46 (A1),

Start 131:
• Found in 4 of 485 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amo99_3 (CP), ColdSoup_3 (CP), Jollymon_3 (CP), Sting_3 (CP),

Start 132:
• Found in 1 of 485 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_154 (singleton),

Start 133:
• Found in 281 of 485 (57.9%) of genes in pham
• Manual Annotations of this start: 242 of 431
• Called 94.0% of time when present
• Phage (with cluster) where this start called: ABU_10 (B1), Acquire49_91 (L1), Adriana_10 (B1), Aegeus_98 (L5), AltPhacts_10 (B1), Anderson_10 (B1), Andre_10 (B1), AngelCake_10 (B1), Aonishiki_10 (B1), Appletree2_90 (L1), Archie_92 (L2), AvadaKedavra_91 (L1), Badfish_10 (B1), Baoshan_95 (L2), Barsten_19 (DE1), Basato_11 (B1), Baudelaire_98 (L5), Bazzle_92 (L2), Bellis_92 (L3), Bibwit_19 (DE1), BigCheese_95 (L2), BlackStallion_10 (B1), BlueHusk_10 (B1), BobBob_16 (DE1), BobsGarage_94 (L2), Boehler_10 (B1), BourbonZero_93 (L3), BrainDrainer_97 (L4), Breezona_95 (L2), Bromden_96 (L4), Buckeye_10 (B1), Calm_92 (L1), CamL_10 (B1), CampRoach_10 (B1), Cannibal_10 (B1), Chah_10 (B1), Charles1_10 (B1), Charming_16 (DE1), Chaser_95 (L4), CheetO_10 (B1), Chunky_10 (B1), ChutneyChips_97 (L4), CicholasNage_88 (L1), Claus_94 (L2), Clautastrophe_90 (L3), Cobra_10 (B1), Colbert_10 (B1), Coletti_10 (B1), Compostia_13 (B3), Craff_10 (B1), Crossroads_95 (L2), DHan_98 (L2), Daka_10 (B1), DanBing_94 (L2), Dingo_10 (B1), DirkDirk_88 (L1), DirtJuice_10 (B1), DoesntMatter_10 (B1), Douge_96 (L4), Douzhi_96 (L4), DrSeegs_94 (L2), DuncansLeg_92 (L3), Durga_10 (B1), DyoEdafos_98 (L4), Ellson_91 (L3), ElvisPhasley_10 (B1), Emiris_10 (B1), EmpTee_10 (B1), Enceladus_88 (L1), Eremos_10 (B1), Etaye_10 (B1), Eugenia_10 (B1), Faith1_95 (L2), Fang_10 (B1), FarmResident_97 (L4), Finemlucis_96 (L2), Finnry_92 (L3), Flake_10 (B1), FluffyNinja_10 (B1), Fosterous_16 (DE1), Frankicide_10 (B1), FriarPreacher_10 (B1), Fringe_10 (B1), Gabriela_95 (L2), Galadriel_20 (DE1), Gardann_95 (L2), GeneCoco_10 (B1), Gophee_10 (B1), GuuelaD_92 (L2), Gwennie1_10 (B1), Gwilliam_10 (B1), Gyarad_0010 (B1), HSavage_10 (B1), Hafay_96 (L2), Haimas_10 (B1), Halena_88 (L1), Hamish_10 (B1), Hartsy_10 (B1), Harvey_10 (B1), Hertubise_10 (B1), Hetaeria_10 (B1), Horchata_10 (B1), Inchworm_10 (B1), Inverness_10 (B1), Iridoclysis_10 (B1), IsaacEli_10 (B1), Itos_95 (L2), JacAttac_10 (B1), JangoPhett_10 (B1), Jobypre_92 (L3), JoeDirt_92 (L1), Jubie_91 (L3), KLucky39_10 (B1), Kahlid_94 (L2), Kailash_10 (B1), Katniss_10 (B1), Keitabear_20 (DE1), Keitherie_10 (B1), Kikipoo_10 (B1), KingVeVeVe_10 (B1), Kingsolomon_90 (L3), KirDoubleO7_90 (L3), KlimbOn_10 (B1), Kloppinator_10 (B1), Kropertea_92 (L4), Krypton555_94 (L3), LasagnaCat_10 (B1), Lasso_10 (B1), LeBron_90 (L1), LeeLot_10 (B1), Lego3393_10 (B1), Lewan_96 (L2), LilDestine_93 (L2), LiyuLake_91 (L3), Loadrie_94 (L2), Lolly9_91 (L3), Love_20 (DE1), Lulwa_10 (B1), Lumos_92 (L3), Lynnae_96 (L2), MAckerman_89 (L1),

Magic8_10 (B1), Matalotodo_10 (B1), Megatron_10 (B1), Melc17_10 (B1), Mesh1_10 (B1), Mikota_10 (B1), Miley16_95 (L2), MiniBoss_10 (B1), MiniLon_96 (L3), MiniMac_96 (L3), MkaliMitinis3_97 (L2), Moostard_89 (L3), Morty_10 (B1), MsGreen_92 (L3), Murdoc_10 (B1), Nacho_0010 (B1), Nathan_10 (B1), Netyap_94 (L2), Newman_10 (B1), Nicholas_90 (L3), Nicholasp3_95 (L2), Nicole21_10 (B1), Nordenberg_13 (DE1), Numberten_10 (B1), OSmaximus_10 (B1), OhShagHennessy_87 (L1), Olive_10 (B1), OliverWalter_10 (B1), Omniscient_10 (B1), Oosterbaan_10 (B1), Orion_10 (B1), OverPar_97 (L2), PG1_10 (B1), PYPDinur_96 (L4), Paries_19 (DE1), Phamished_10 (B1), PhatCats2014_10 (B1), PhatLouie_10 (B1), Pherdinand_10 (B1), Phipps_10 (B1), PhrodoBaggins_105 (B1), Phunky_10 (B1), Pipsqueak_10 (B1), Plmatters_10 (B1), Podrick_10 (B1), Poochiewood_89 (L1), Pops_10 (B1), Prickles_10 (B1), ProfessorX_10 (B1), Puhltonio_10 (B1), Quby_96 (L4), QueenBeane_10 (B1), Quisquiliae_10 (B1), Red305_93 (L3), RedRaider89_11 (B1), Riggan_10 (B1), Riverton_10 (B1), Roliet_10 (B1), Roscoe_11 (B1), Rose5_92 (L1), Rossetti_95 (L2), Rumpelstiltskin_91 (L2), SDcharge11_10 (B1), Samaymay_10 (B1), Samty_91 (L3), Sarshaun_96 (L2), Scoot17C_10 (B1), Serendipity_10 (B1), Serpentine_0010 (B1), ShadowBud_10 (B1), Sheila_10 (B1), Sheng711_97 (L4), ShiVal_10 (B1), Sigman_10 (B1), Silverleaf_90 (L1), Skippy_10 (B1), Slatt_10 (B1), Snenia_91 (L3), SoJulia_97 (L2), Soap141_95 (L2), Soto_10 (B1), Spartan300_10 (B1), Suffolk_10 (B1), Surely_10 (B1), Swiphy_10 (B1), Swish_10 (B1), Tangent_16 (DE1), Thora_10 (B1), ThreeOh3D2_10 (B1), TomBombadil_10 (B1), Tomlarah_10 (B1), TooFast2Furius_11 (B1), Tooj_10 (B1), Tourach_95 (L2), TriFive_93 (L3), Trypo_10 (B1), Tyson_92 (L1), UAch1_10 (B1), UPIE_90 (L1), Underpass_87 (L2), Usavi_10 (B1), Valjean_10 (B1), Vetrix_93 (L2), Virapocalypse_10 (B1), Vista_10 (B1), Vivaldi_10 (B1), Wamburgrxpress_90 (L1), Waterdiva_10 (B1), Weher20_10 (B1), Whirlwind_93 (L3), Wigglewiggle_95 (L2), Wilder_96 (L2), Winky_95 (L2), Wyatt2_92 (L1), YorkOnyx_19 (DE1), Yoshand_10 (B1), YouGoGlencoco_10 (B1), Zaider_11 (B1), Zakai_96 (L2), Zaria_91 (L1), Zelda_10 (B1), ZhongYanYuan_92 (L2), Zonia_10 (B1),

Start 134:
• Found in 3 of 485 (0.6%) of genes in pham
• Manual Annotations of this start: 3 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AluminumJesus_51 (EG), Blab_51 (EG), Gizmo_126 (C1),

Start 135:
• Found in 18 of 485 (3.7%) of genes in pham
• Manual Annotations of this start: 7 of 431
• Called 44.4% of time when present
• Phage (with cluster) where this start called: BaboJay_80 (E), Bogg_83 (E), Eureka_81 (E), Goku_81 (E), Hank144_56 (BD2), Hydra_4 (BD1), Manda_84 (E), SophKB_98 (E),

Start 136:
• Found in 15 of 485 (3.1%) of genes in pham
• Manual Annotations of this start: 4 of 431
• Called 33.3% of time when present
• Phage (with cluster) where this start called: AdaS_68 (AY), BenchScraper_71 (AY), Boise_73 (FT), RomansRevenge_75 (FT), YoungHarleezy_70 (AY),

Start 138:

• Found in 3 of 485 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 431
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Gaia_17 (X), Nebkiss_18 (X),

Start 139:
• Found in 13 of 485 (2.7%) of genes in pham
• Manual Annotations of this start: 3 of 431
• Called 23.1% of time when present
• Phage (with cluster) where this start called: Colucci_103 (AR), DrYang_96 (AR), Grayson_217 (CB),

Start 140:
• Found in 4 of 485 (0.8%) of genes in pham
• Manual Annotations of this start: 4 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bradissa_67 (CY1), EnalisNailo_66 (CY1), Lilas_67 (CY1), LordFarquaad_67 (CZ2),

Start 141:
• Found in 7 of 485 (1.4%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Lasker_72 (AY),

Start 144:
• Found in 24 of 485 (4.9%) of genes in pham
• Manual Annotations of this start: 23 of 431
• Called 95.8% of time when present
• Phage (with cluster) where this start called: BaxterFox_65 (CZ3), Chipper1996_1010 (AR), Chocolat_100 (AR), Chubster_100 (AR), EMsquaredA_63 (CY1), EdgarPoe_100 (AR), EnalisNailo_59 (CY1), Floral_64 (CY1), HumptyDumpty_100 (AR), JaNo_99 (AR), KBurrousTX_96 (AR), Kabreeze_100 (AR), Linus_100 (AR), Lymara_98 (AR), Marteena_62 (CY1), Matteo_53 (CZ2), Mordred_100 (AR), Neobush_64 (CZ1), Pollux_66 (CY1), PrincessTrina_101 (AR), RosiePosie_100 (AR), Scavito_101 (AR), Tophat_101 (AR),

Start 145:
• Found in 40 of 485 (8.2%) of genes in pham
• Manual Annotations of this start: 4 of 431
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Apricot_54 (DN3), Crater_54 (DN3), Phistory_56 (DN1), PhorbesPhlower_38 (DH),

Start 146:
• Found in 4 of 485 (0.8%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: JohnLord_44 (AD),

Start 147:
• Found in 2 of 485 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 431

• Called 50.0% of time when present
• Phage (with cluster) where this start called: Footloose_54 (singleton),

Start 148:
• Found in 2 of 485 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 50.0% of time when present
• Phage (with cluster) where this start called: SadLad_28 (EG),

Start 151:
• Found in 3 of 485 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CMP1_50 (singleton), KentuckyRacer_110 (BE2), Makar_96 (CP),

Start 152:
• Found in 1 of 485 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: WhereRU_161 (BE1),

Start 155:
• Found in 21 of 485 (4.3%) of genes in pham
• No Manual Annotations of this start.
• Called 4.8% of time when present
• Phage (with cluster) where this start called: Mila11_96 (EG),

Start 156:
• Found in 5 of 485 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Argena_96 (DQ), ChisanaKitsune_96 (DQ), Farrylious_96 (DQ), MintFritos_94 (DQ), ScoobyDoobyDoo_251 (C2),

Start 157:
• Found in 1 of 485 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_57 (singleton),

Start 158:
• Found in 39 of 485 (8.0%) of genes in pham
• Manual Annotations of this start: 2 of 431
• Called 5.1% of time when present
• Phage (with cluster) where this start called: Kroos_19 (DE1), Rofo_18 (DE1),

Start 159:
• Found in 19 of 485 (3.9%) of genes in pham
• Manual Annotations of this start: 12 of 431
• Called 73.7% of time when present
• Phage (with cluster) where this start called: Angela_225 (BE1), Bmoc_227 (BE1), Bubbykins_121 (UNK), CN1A_67 (singleton), 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 163:
• Found in 17 of 485 (3.5%) of genes in pham
• No Manual Annotations of this start.
• Called 5.9% of time when present
• Phage (with cluster) where this start called: McCrothy_19 (DE1),

Start 167:
• Found in 8 of 485 (1.6%) of genes in pham
• Manual Annotations of this start: 3 of 431
• Called 37.5% of time when present
• Phage (with cluster) where this start called: BillyTP_72 (AY), Faja_72 (AY), Hestia_63 (AY),

Start 169:
• Found in 2 of 485 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 50.0% of time when present
• Phage (with cluster) where this start called: RedWattleHog_27 (DX),

Start 172:
• Found in 30 of 485 (6.2%) of genes in pham
• Manual Annotations of this start: 24 of 431
• Called 96.7% of time when present
• Phage (with cluster) where this start called: Bezza_130 (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), SoilZilla_137 (C1), Teardrop_140 (C1),

Start 175:
• Found in 3 of 485 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Bmoc_167 (BE1),

Start 186:
• Found in 2 of 485 (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: SilverChicken_59 (F2),

Start 198:
• Found in 1 of 485 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_82 (singleton),

Start 209:
• Found in 14 of 485 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 7.1% of time when present
• Phage (with cluster) where this start called: REQ3_10 (singleton),

Start 224:
• Found in 4 of 485 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 431
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Cafasso_94 (DZ),

Summary by clusters:

There are 51 clusters represented in this pham: singleton, FT, DH, CZ2, CZ3, DD, CZ1, DL, FB, BD1, BP, DX, BC2, FN, DQ, CP, DF2, A1, DN1, DN3, BD2, C2, C1, CY1, E, AD, CB, EG, J, CZ, L4, L5, L2, L3, L1, AY, X, UNK, F1, F2, DE1, S, AR, B1, B3, BE2, DZ, BE1, BC1, GB, BC3,

Info for manual annotations of cluster A1:
•Start number 94 was manually annotated 1 time for cluster A1.
•Start number 124 was manually annotated 3 times for cluster A1.
•Start number 127 was manually annotated 1 time for cluster A1.
•Start number 130 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster AR:
•Start number 139 was manually annotated 2 times for cluster AR.
•Start number 144 was manually annotated 15 times for cluster AR.

Info for manual annotations of cluster AY:
•Start number 88 was manually annotated 1 time for cluster AY.
•Start number 106 was manually annotated 1 time for cluster AY.
•Start number 115 was manually annotated 1 time for cluster AY.
•Start number 136 was manually annotated 3 times for cluster AY.
•Start number 167 was manually annotated 3 times for cluster AY.

Info for manual annotations of cluster B1:
•Start number 133 was manually annotated 152 times for cluster B1.

Info for manual annotations of cluster B3:
•Start number 91 was manually annotated 1 time for cluster B3.
•Start number 122 was manually annotated 1 time for cluster B3.
•Start number 133 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster BC1:
•Start number 105 was manually annotated 1 time for cluster BC1.
•Start number 107 was manually annotated 4 times for cluster BC1.
•Start number 108 was manually annotated 1 time for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 105 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:
•Start number 100 was manually annotated 2 times for cluster BC3.
•Start number 125 was manually annotated 3 times for cluster BC3.

Info for manual annotations of cluster BD1:
•Start number 135 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 135 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BE1:
•Start number 152 was manually annotated 1 time for cluster BE1.
•Start number 159 was manually annotated 12 times for cluster BE1.
•Start number 175 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 151 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BP:
•Start number 104 was manually annotated 11 times for cluster BP.

Info for manual annotations of cluster C1:
•Start number 134 was manually annotated 1 time for cluster C1.
•Start number 172 was manually annotated 24 times for cluster C1.

Info for manual annotations of cluster C2:
•Start number 156 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CB:
•Start number 139 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CP:
•Start number 131 was manually annotated 2 times for cluster CP.

Info for manual annotations of cluster CY1:
•Start number 140 was manually annotated 3 times for cluster CY1.
•Start number 144 was manually annotated 5 times for cluster CY1.

Info for manual annotations of cluster CZ:
•Start number 104 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 144 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 140 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 144 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster DD:

•Start number 128 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DE1:
•Start number 84 was manually annotated 5 times for cluster DE1.
•Start number 100 was manually annotated 16 times for cluster DE1.
•Start number 116 was manually annotated 2 times for cluster DE1.
•Start number 121 was manually annotated 1 time for cluster DE1.
•Start number 124 was manually annotated 2 times for cluster DE1.
•Start number 133 was manually annotated 12 times for cluster DE1.
•Start number 158 was manually annotated 2 times for cluster DE1.

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

Info for manual annotations of cluster DL:
•Start number 109 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DN1:
•Start number 145 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 145 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DQ:
•Start number 156 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster DX:
•Start number 169 was manually annotated 1 time for cluster DX.

Info for manual annotations of cluster DZ:
•Start number 121 was manually annotated 3 times for cluster DZ.
•Start number 224 was manually annotated 1 time for cluster DZ.

Info for manual annotations of cluster E:
•Start number 135 was manually annotated 5 times for cluster E.

Info for manual annotations of cluster EG:
•Start number 121 was manually annotated 1 time for cluster EG.
•Start number 134 was manually annotated 2 times for cluster EG.
•Start number 148 was manually annotated 1 time for cluster EG.

Info for manual annotations of cluster F1:
•Start number 70 was manually annotated 1 time for cluster F1.
•Start number 112 was manually annotated 1 time for cluster F1.
•Start number 114 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster FB:
•Start number 109 was manually annotated 2 times for cluster FB.
•Start number 125 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FT:
•Start number 136 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster GB:
•Start number 92 was manually annotated 3 times for cluster GB.

Info for manual annotations of cluster J:
•Start number 83 was manually annotated 2 times for cluster J.
•Start number 110 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster L1:
•Start number 133 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 133 was manually annotated 31 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 133 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 133 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:
•Start number 133 was manually annotated 2 times for cluster L5.

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

Info for manual annotations of cluster X:
•Start number 138 was manually annotated 2 times for cluster X.

Gene Information:

Gene: ABU_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for ABU_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Acquire49_91 Start: 57365, Stop: 57775, Start Num: 133
Candidate Starts for Acquire49_91:
(Start: 133 @57365 has 242 MA's), (155, 57395), (Start: 158 @57398 has 2 MA's), (185, 57443), (233, 57521), (248, 57563), (270, 57599), (289, 57641), (291, 57647), (310, 57695), (325, 57740), (340, 57767),

Gene: AdaS_68 Start: 35660, Stop: 36148, Start Num: 136
Candidate Starts for AdaS_68:
(Start: 136 @35660 has 4 MA's), (141, 35666), (Start: 167 @35696 has 3 MA's), (336, 36092),

Gene: AdaS_32 Start: 23341, Stop: 23913, Start Num: 88
Candidate Starts for AdaS_32:

(46, 23191), (Start: 88 @23341 has 1 MA's), (Start: 175 @23467 has 1 MA's), (220, 23563), (247, 23626), (267, 23656), (270, 23665), (272, 23677), (319, 23788),

Gene: Adriana_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Adriana_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Aegeus_98 Start: 59877, Stop: 60281, Start Num: 133
Candidate Starts for Aegeus_98:
(Start: 133 @59877 has 242 MA's), (205, 59988), (227, 60015), (230, 60024), (232, 60027), (233, 60030), (235, 60036), (244, 60066), (263, 60090), (280, 60132), (310, 60201), (331, 60255),

Gene: Affeca_48 Start: 42397, Stop: 42915, Start Num: 100
Candidate Starts for Affeca_48:
(81, 42385), (Start: 100 @42397 has 18 MA's), (234, 42613), (273, 42703), (279, 42715),

Gene: Ailee_47 Start: 42002, Stop: 42520, Start Num: 100
Candidate Starts for Ailee_47:
(81, 41990), (Start: 84 @41999 has 5 MA's), (Start: 100 @42002 has 18 MA's), (234, 42218), (273, 42308), (279, 42320),

Gene: AltPhacts_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for AltPhacts_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: AluminumJesus_51 Start: 40979, Stop: 40554, Start Num: 134
Candidate Starts for AluminumJesus_51:
(Start: 134 @40979 has 3 MA's), (235, 40811), (279, 40709), (313, 40625),

Gene: Amo99_3 Start: 2875, Stop: 3255, Start Num: 131
Candidate Starts for Amo99_3:
(Start: 131 @2875 has 2 MA's), (190, 2959), (207, 2992), (227, 3019), (232, 3031), (233, 3034), (281, 3145), (295, 3181), (327, 3235), (332, 3244),

Gene: Anderson_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Anderson_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Andre_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for Andre_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: AngelCake_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for AngelCake_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Angela_225 Start: 112366, Stop: 112806, Start Num: 159
Candidate Starts for Angela_225:
(Start: 139 @112339 has 3 MA's), (Start: 159 @112366 has 12 MA's), (209, 112462), (235, 112513), (276, 112606), (303, 112678), (326, 112732), (343, 112765),

Gene: Angelicage_48 Start: 42812, Stop: 43333, Start Num: 84
Candidate Starts for Angelicage_48:

(81, 42803), (Start: 84 @42812 has 5 MA's), (Start: 100 @42815 has 18 MA's), (234, 43031), (273, 43121), (279, 43133),

Gene: Aonishiki_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Aonishiki_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Appletree2_90 Start: 57125, Stop: 57535, Start Num: 133
Candidate Starts for Appletree2_90:
(Start: 133 @57125 has 242 MA's), (155, 57155), (Start: 158 @57158 has 2 MA's), (185, 57203), (233, 57281), (248, 57323), (270, 57359), (289, 57401), (291, 57407), (310, 57455), (325, 57500), (340, 57527),

Gene: Apricot_54 Start: 35119, Stop: 35568, Start Num: 145
Candidate Starts for Apricot_54:
(Start: 92 @35038 has 4 MA's), (Start: 145 @35119 has 4 MA's), (188, 35191), (237, 35287), (257, 35323), (307, 35452), (351, 35557),

Gene: Archie_92 Start: 59049, Stop: 59462, Start Num: 133
Candidate Starts for Archie_92:
(Start: 133 @59049 has 242 MA's), (200, 59160), (229, 59199), (233, 59208), (270, 59286), (300, 59358), (331, 59436), (340, 59454),

Gene: Argena_96 Start: 72813, Stop: 73226, Start Num: 156
Candidate Starts for Argena_96:
(102, 72738), (Start: 114 @72756 has 1 MA's), (Start: 156 @72813 has 2 MA's), (207, 72909), (227, 72936), (232, 72948), (233, 72951), (257, 72999),

Gene: Ariel_165 Start: 84168, Stop: 84737, Start Num: 83
Candidate Starts for Ariel_165:
(Start: 83 @84168 has 2 MA's), (Start: 110 @84210 has 1 MA's), (Start: 121 @84225 has 5 MA's), (245, 84447), (273, 84504), (282, 84525),

Gene: ArizonaGT_45 Start: 30201, Stop: 30692, Start Num: 104
Candidate Starts for ArizonaGT_45:
(Start: 104 @30201 has 12 MA's), (267, 30453), (271, 30468),

Gene: Austintatious_42 Start: 27716, Stop: 28177, Start Num: 125
Candidate Starts for Austintatious_42:
(24, 27290), (27, 27320), (49, 27539), (Start: 125 @27716 has 4 MA's), (267, 27980), (272, 28001), (305, 28064),

Gene: AvadaKedavra_91 Start: 57477, Stop: 57887, Start Num: 133
Candidate Starts for AvadaKedavra_91:
(Start: 133 @57477 has 242 MA's), (155, 57507), (Start: 158 @57510 has 2 MA's), (185, 57555), (233, 57633), (248, 57675), (270, 57711), (289, 57753), (291, 57759), (310, 57807), (325, 57852), (340, 57879),

Gene: AxeJC_43 Start: 29903, Stop: 30394, Start Num: 104
Candidate Starts for AxeJC_43:
(Start: 104 @29903 has 12 MA's), (267, 30155), (271, 30170),

Gene: BaboJay_80 Start: 51126, Stop: 51572, Start Num: 135

Candidate Starts for BaboJay_80:
(118, 51102), (Start: 135 @51126 has 7 MA's), (171, 51180), (244, 51339), (267, 51378), (272, 51399), (318, 51510),

Gene: Baddon_49 Start: 43084, Stop: 43602, Start Num: 100
Candidate Starts for Baddon_49:
(Start: 100 @43084 has 18 MA's), (123, 43114), (234, 43300), (273, 43390), (279, 43402), (353, 43597),

Gene: Badfish_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Badfish_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Baoshan_95 Start: 59704, Stop: 60117, Start Num: 133
Candidate Starts for Baoshan_95:
(Start: 133 @59704 has 242 MA's), (200, 59815), (229, 59854), (233, 59863), (270, 59941), (300, 60013), (331, 60091), (340, 60109),

Gene: BarnCat_84 Start: 47542, Stop: 47033, Start Num: 92
Candidate Starts for BarnCat_84:
(Start: 92 @47542 has 4 MA's), (203, 47371), (206, 47365), (225, 47335), (245, 47281), (271, 47233),

Gene: Barsten_19 Start: 14612, Stop: 15058, Start Num: 133
Candidate Starts for Barsten_19:
(Start: 116 @14591 has 2 MA's), (Start: 124 @14603 has 5 MA's), (Start: 133 @14612 has 242 MA's), (Start: 158 @14642 has 2 MA's), (163, 14651), (257, 14822), (267, 14855), (281, 14897), (292, 14918), (309, 14963),

Gene: Basato_11 Start: 9177, Stop: 9611, Start Num: 133
Candidate Starts for Basato_11:
(Start: 133 @9177 has 242 MA's), (164, 9216), (181, 9240), (223, 9321), (267, 9411), (292, 9474),

Gene: Baudelaire_98 Start: 59877, Stop: 60281, Start Num: 133
Candidate Starts for Baudelaire_98:
(Start: 133 @59877 has 242 MA's), (205, 59988), (227, 60015), (230, 60024), (232, 60027), (233, 60030), (235, 60036), (244, 60066), (263, 60090), (280, 60132), (310, 60201), (331, 60255),

Gene: BaxterFox_65 Start: 44276, Stop: 44731, Start Num: 144
Candidate Starts for BaxterFox_65:
(87, 44204), (89, 44207), (Start: 144 @44276 has 23 MA's), (160, 44288), (228, 44417), (240, 44453), (281, 44570), (284, 44579),

Gene: Bazzle_92 Start: 59605, Stop: 60018, Start Num: 133
Candidate Starts for Bazzle_92:
(Start: 133 @59605 has 242 MA's), (200, 59716), (229, 59755), (233, 59764), (270, 59842), (300, 59914), (331, 59992), (340, 60010),

Gene: Bellis_92 Start: 59240, Stop: 59647, Start Num: 133
Candidate Starts for Bellis_92:
(Start: 133 @59240 has 242 MA's), (Start: 145 @59261 has 4 MA's), (232, 59390), (233, 59393), (270, 59471), (284, 59507), (321, 59594), (331, 59621),

Gene: BenchScraper_71 Start: 37047, Stop: 37535, Start Num: 136

Candidate Starts for BenchScraper_71:
(Start: 136 @37047 has 4 MA's), (141, 37053), (Start: 167 @37083 has 3 MA's), (336, 37479),

Gene: Bernardo_39 Start: 36994, Stop: 37440, Start Num: 122
Candidate Starts for Bernardo_39:
(Start: 122 @36994 has 1 MA's), (187, 37090), (230, 37174), (232, 37177), (268, 37255), (334, 37423),

Gene: Bezza_130 Start: 82627, Stop: 83043, Start Num: 172
Candidate Starts for Bezza_130:
(26, 82150), (Start: 172 @82627 has 24 MA's), (202, 82684), (231, 82747), (256, 82816), (271, 82861), (286, 82900),

Gene: Bibwit_19 Start: 14856, Stop: 15302, Start Num: 133
Candidate Starts for Bibwit_19:
(Start: 116 @14835 has 2 MA's), (Start: 124 @14847 has 5 MA's), (Start: 133 @14856 has 242 MA's), (Start: 158 @14886 has 2 MA's), (163, 14895), (257, 15066), (267, 15099), (281, 15141), (292, 15162), (309, 15207), (322, 15243),

Gene: Bibwit_48 Start: 41643, Stop: 42161, Start Num: 100
Candidate Starts for Bibwit_48:
(Start: 100 @41643 has 18 MA's), (123, 41673), (234, 41859), (273, 41949), (279, 41961),

Gene: BigCheese_95 Start: 59815, Stop: 60228, Start Num: 133
Candidate Starts for BigCheese_95:
(Start: 133 @59815 has 242 MA's), (200, 59926), (229, 59965), (233, 59974), (270, 60052), (300, 60124), (331, 60202), (340, 60220),

Gene: BillyTP_72 Start: 38938, Stop: 39390, Start Num: 167
Candidate Starts for BillyTP_72:
(Start: 136 @38902 has 4 MA's), (141, 38908), (Start: 167 @38938 has 3 MA's), (336, 39334),

Gene: Bioscum_45 Start: 29978, Stop: 30484, Start Num: 100
Candidate Starts for Bioscum_45:
(Start: 100 @29978 has 18 MA's), (Start: 125 @30014 has 4 MA's), (273, 30272), (281, 30290), (293, 30311),

Gene: Blab_51 Start: 40826, Stop: 40401, Start Num: 134
Candidate Starts for Blab_51:
(31, 41177), (36, 41099), (Start: 134 @40826 has 3 MA's), (235, 40658), (279, 40556), (313, 40472),

Gene: BlackStallion_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for BlackStallion_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: BlueHusk_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for BlueHusk_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Bmoc_227 Start: 112807, Stop: 113247, Start Num: 159
Candidate Starts for Bmoc_227:
(Start: 135 @112771 has 7 MA's), (Start: 139 @112780 has 3 MA's), (Start: 159 @112807 has 12 MA's), (209, 112903), (235, 112954), (276, 113047), (303, 113119), (326, 113173), (343, 113206),

Gene: Bmoc_167 Start: 91666, Stop: 92031, Start Num: 175
Candidate Starts for Bmoc_167:
(Start: 175 @91666 has 1 MA's), (210, 91735), (257, 91822), (282, 91888),

Gene: BobBob_16 Start: 13466, Stop: 13912, Start Num: 133
Candidate Starts for BobBob_16:
(Start: 116 @13445 has 2 MA's), (Start: 124 @13457 has 5 MA's), (Start: 133 @13466 has 242 MA's), (Start: 158 @13496 has 2 MA's), (163, 13505), (257, 13676), (267, 13709), (281, 13751), (292, 13772), (309, 13817), (322, 13853),

Gene: BobsGarage_94 Start: 59815, Stop: 60228, Start Num: 133
Candidate Starts for BobsGarage_94:
(Start: 133 @59815 has 242 MA's), (200, 59926), (229, 59965), (233, 59974), (270, 60052), (300, 60124), (331, 60202), (340, 60220),

Gene: Boehler_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Boehler_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Bogg_83 Start: 50869, Stop: 51315, Start Num: 135
Candidate Starts for Bogg_83:
(Start: 135 @50869 has 7 MA's), (171, 50923), (244, 51082), (267, 51121), (272, 51142), (318, 51253),

Gene: Boise_73 Start: 50699, Stop: 50262, Start Num: 136
Candidate Starts for Boise_73:
(82, 50783), (86, 50774), (Start: 136 @50699 has 4 MA's), (234, 50534), (250, 50489), (296, 50387), (302, 50369), (308, 50351),

Gene: BourbonZero_93 Start: 59266, Stop: 59673, Start Num: 133
Candidate Starts for BourbonZero_93:
(Start: 133 @59266 has 242 MA's), (Start: 145 @59287 has 4 MA's), (200, 59371), (232, 59416), (233, 59419), (270, 59497), (284, 59533), (321, 59620), (331, 59647),

Gene: Bradissa_67 Start: 46915, Stop: 47334, Start Num: 140
Candidate Starts for Bradissa_67:
(37, 46627), (71, 46789), (98, 46852), (Start: 108 @46867 has 1 MA's), (Start: 115 @46876 has 1 MA's), (Start: 140 @46915 has 4 MA's), (149, 46927), (171, 46957), (218, 47056), (227, 47062), (285, 47200),

Gene: BrainDrainer_97 Start: 59520, Stop: 59927, Start Num: 133
Candidate Starts for BrainDrainer_97:
(Start: 133 @59520 has 242 MA's), (Start: 145 @59541 has 4 MA's), (233, 59673), (278, 59769), (300, 59823), (321, 59874), (331, 59901), (333, 59904), (340, 59919),

Gene: Breeniome_140 Start: 81159, Stop: 81575, Start Num: 172
Candidate Starts for Breeniome_140:
(26, 80682), (Start: 172 @81159 has 24 MA's), (202, 81216), (231, 81279), (256, 81348), (271, 81393), (286, 81432),

Gene: Breezona_95 Start: 59815, Stop: 60228, Start Num: 133
Candidate Starts for Breezona_95:
(Start: 133 @59815 has 242 MA's), (200, 59926), (232, 59971), (233, 59974), (278, 60070), (300, 60124), (331, 60202), (340, 60220),

Gene: Bromden_96 Start: 60413, Stop: 60820, Start Num: 133
Candidate Starts for Bromden_96:
(Start: 133 @60413 has 242 MA's), (Start: 145 @60434 has 4 MA's), (161, 60449), (232, 60563), (233, 60566), (300, 60716), (321, 60767), (331, 60794), (340, 60812),

Gene: Bubbykins_121 Start: 68602, Stop: 68958, Start Num: 159
Candidate Starts for Bubbykins_121:
(Start: 121 @68548 has 5 MA's), (Start: 159 @68602 has 12 MA's), (171, 68620), (182, 68635), (202, 68671), (210, 68680), (Start: 224 @68695 has 1 MA's), (244, 68743), (245, 68746), (272, 68794), (273, 68797), (296, 68851),

Gene: Buckeye_10 Start: 8945, Stop: 9379, Start Num: 133
Candidate Starts for Buckeye_10:
(Start: 133 @8945 has 242 MA's), (164, 8984), (181, 9008), (223, 9089), (267, 9179), (292, 9242),

Gene: Burrough_141 Start: 83310, Stop: 83726, Start Num: 172
Candidate Starts for Burrough_141:
(26, 82833), (Start: 172 @83310 has 24 MA's), (202, 83367), (231, 83430), (256, 83499), (271, 83544), (286, 83583),

Gene: Buttons_27 Start: 21411, Stop: 21896, Start Num: 94
Candidate Starts for Buttons_27:
(Start: 94 @21411 has 1 MA's), (Start: 127 @21459 has 1 MA's), (232, 21630), (233, 21633), (247, 21672),

Gene: Bxz1_138 Start: 84513, Stop: 84929, Start Num: 172
Candidate Starts for Bxz1_138:
(26, 84036), (Start: 172 @84513 has 24 MA's), (202, 84570), (231, 84633), (256, 84702), (271, 84747), (286, 84786),

Gene: CMP1_50 Start: 47245, Stop: 46814, Start Num: 151
Candidate Starts for CMP1_50:
(Start: 151 @47245 has 1 MA's), (177, 47212), (236, 47098), (264, 47044), (336, 46864),

Gene: CN1A_74 Start: 54320, Stop: 53856, Start Num: 126
Candidate Starts for CN1A_74:
(126, 54320), (Start: 144 @54290 has 23 MA's), (235, 54131),

Gene: CN1A_67 Start: 52198, Stop: 51770, Start Num: 159
Candidate Starts for CN1A_67:
(74, 52336), (149, 52210), (Start: 159 @52198 has 12 MA's), (177, 52174), (230, 52066), (267, 51991), (317, 51853), (349, 51781),

Gene: Cadmus_220 Start: 113488, Stop: 113928, Start Num: 159
Candidate Starts for Cadmus_220:
(56, 113290), (57, 113293), (61, 113317), (67, 113329), (69, 113332), (Start: 100 @113401 has 18 MA's), (103, 113407), (Start: 110 @113416 has 1 MA's), (Start: 133 @113446 has 242 MA's), (Start: 135 @113452 has 7 MA's), (Start: 159 @113488 has 12 MA's), (209, 113584), (235, 113635), (276, 113728), (303, 113800), (326, 113854), (343, 113887),

Gene: Cafasso_20 Start: 18713, Stop: 18225, Start Num: 121
Candidate Starts for Cafasso_20:

(29, 19079), (54, 18863), (72, 18806), (75, 18794), (Start: 121 @18713 has 5 MA's), (178, 18629), (190, 18605), (207, 18569), (212, 18560), (232, 18521), (234, 18515), (282, 18401), (284, 18395), (285, 18392), (317, 18314),

Gene: Cafasso_94 Start: 55360, Stop: 55818, Start Num: 224
Candidate Starts for Cafasso_94:
(178, 55264), (Start: 224 @55360 has 1 MA's), (246, 55423), (316, 55645), (323, 55663),

Gene: Cali_136 Start: 83312, Stop: 83728, Start Num: 172
Candidate Starts for Cali_136:
(26, 82835), (Start: 172 @83312 has 24 MA's), (202, 83369), (231, 83432), (256, 83501), (271, 83546), (286, 83585),

Gene: Calm_92 Start: 57376, Stop: 57786, Start Num: 133
Candidate Starts for Calm_92:
(Start: 133 @57376 has 242 MA's), (155, 57406), (Start: 158 @57409 has 2 MA's), (185, 57454), (233, 57532), (248, 57574), (270, 57610), (289, 57652), (291, 57658), (310, 57706), (325, 57751), (340, 57778),

Gene: CamL_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for CamL_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: CampRoach_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for CampRoach_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Cane17_133 Start: 84174, Stop: 84590, Start Num: 172
Candidate Starts for Cane17_133:
(26, 83697), (Start: 172 @84174 has 24 MA's), (202, 84231), (231, 84294), (256, 84363), (271, 84408), (286, 84447),

Gene: Cannibal_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Cannibal_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Cantare_76 Start: 62423, Stop: 63022, Start Num: 80
Candidate Starts for Cantare_76:
(Start: 80 @62423 has 1 MA's), (86, 62441), (179, 62582), (271, 62819), (324, 62963), (328, 62978),

Gene: Caprice_29 Start: 9273, Stop: 9845, Start Num: 113
Candidate Starts for Caprice_29:
(113, 9273), (Start: 121 @9282 has 5 MA's), (195, 9402), (202, 9417), (228, 9474), (267, 9552), (303, 9645),

Gene: Cassini_41 Start: 28053, Stop: 28541, Start Num: 111
Candidate Starts for Cassini_41:
(69, 27969), (111, 28053), (177, 28143), (219, 28230), (267, 28320), (273, 28344), (305, 28416), (317, 28449), (346, 28524),

Gene: Cassita_88 Start: 48685, Stop: 48176, Start Num: 92
Candidate Starts for Cassita_88:
(Start: 92 @48685 has 4 MA's), (206, 48508), (225, 48478), (245, 48424), (271, 48376),

Gene: Chah_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Chah_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Charles1_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Charles1_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: CharlieB_138 Start: 82195, Stop: 82611, Start Num: 172
Candidate Starts for CharlieB_138:
(26, 81718), (Start: 172 @82195 has 24 MA's), (202, 82252), (231, 82315), (256, 82384), (271, 82429), (286, 82468),

Gene: Charming_16 Start: 13468, Stop: 13914, Start Num: 133
Candidate Starts for Charming_16:
(Start: 116 @13447 has 2 MA's), (Start: 124 @13459 has 5 MA's), (Start: 133 @13468 has 242 MA's), (Start: 158 @13498 has 2 MA's), (163, 13507), (257, 13678), (267, 13711), (281, 13753), (292, 13774), (309, 13819), (322, 13855),

Gene: Chaser_95 Start: 58821, Stop: 59228, Start Num: 133
Candidate Starts for Chaser_95:
(Start: 133 @58821 has 242 MA's), (Start: 145 @58842 has 4 MA's), (161, 58857), (233, 58974), (278, 59070), (300, 59124), (321, 59175), (331, 59202), (333, 59205), (340, 59220),

Gene: CheetO_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for CheetO_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: ChickenDinner_23 Start: 23332, Stop: 23961, Start Num: 70
Candidate Starts for ChickenDinner_23:
(47, 23233), (Start: 70 @23332 has 1 MA's), (78, 23353), (244, 23656), (279, 23767), (337, 23905),

Gene: ChickenPhender_137 Start: 81501, Stop: 81917, Start Num: 172
Candidate Starts for ChickenPhender_137:
(26, 81024), (Start: 172 @81501 has 24 MA's), (202, 81558), (231, 81621), (256, 81690), (271, 81735), (286, 81774),

Gene: Chipper1996_1010 Start: 63867, Stop: 64361, Start Num: 144
Candidate Starts for Chipper1996_1010:
(Start: 80 @63759 has 1 MA's), (98, 63798), (Start: 144 @63867 has 23 MA's), (196, 63951), (230, 64023), (244, 64062), (346, 64332),

Gene: ChisanaKitsune_96 Start: 72440, Stop: 72853, Start Num: 156
Candidate Starts for ChisanaKitsune_96:
(102, 72365), (Start: 114 @72383 has 1 MA's), (Start: 156 @72440 has 2 MA's), (207, 72536), (227, 72563), (232, 72575), (233, 72578), (257, 72626),

Gene: Chocolat_100 Start: 63574, Stop: 64068, Start Num: 144
Candidate Starts for Chocolat_100:
(Start: 80 @63466 has 1 MA's), (98, 63505), (Start: 144 @63574 has 23 MA's), (196, 63658), (230, 63730), (244, 63769), (346, 64039),

Gene: Chubster_100 Start: 63814, Stop: 64308, Start Num: 144
Candidate Starts for Chubster_100:
(Start: 80 @63706 has 1 MA's), (98, 63745), (Start: 144 @63814 has 23 MA's), (196, 63898), (230, 63970), (244, 64009), (346, 64279),

Gene: Chunky_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Chunky_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: ChutneyChips_97 Start: 59567, Stop: 59974, Start Num: 133
Candidate Starts for ChutneyChips_97:
(Start: 133 @59567 has 242 MA's), (Start: 145 @59588 has 4 MA's), (161, 59603), (233, 59720), (278, 59816), (300, 59870), (321, 59921), (331, 59948), (333, 59951), (340, 59966),

Gene: CicholasNage_88 Start: 57029, Stop: 57439, Start Num: 133
Candidate Starts for CicholasNage_88:
(Start: 133 @57029 has 242 MA's), (155, 57059), (Start: 158 @57062 has 2 MA's), (185, 57107), (233, 57185), (248, 57227), (270, 57263), (289, 57305), (291, 57311), (310, 57359), (325, 57404), (340, 57431),

Gene: Claus_94 Start: 59528, Stop: 59941, Start Num: 133
Candidate Starts for Claus_94:
(Start: 133 @59528 has 242 MA's), (200, 59639), (229, 59678), (233, 59687), (270, 59765), (300, 59837), (331, 59915), (340, 59933),

Gene: Clautastrophe_90 Start: 59235, Stop: 59642, Start Num: 133
Candidate Starts for Clautastrophe_90:
(Start: 133 @59235 has 242 MA's), (Start: 145 @59256 has 4 MA's), (232, 59385), (233, 59388), (270, 59466), (284, 59502), (321, 59589), (331, 59616),

Gene: Cobra_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Cobra_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Colbert_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Colbert_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: ColdSoup_3 Start: 2875, Stop: 3255, Start Num: 131
Candidate Starts for ColdSoup_3:
(Start: 131 @2875 has 2 MA's), (190, 2959), (207, 2992), (227, 3019), (232, 3031), (233, 3034), (281, 3145), (295, 3181), (327, 3235), (332, 3244),

Gene: Coletti_10 Start: 8958, Stop: 9392, Start Num: 133
Candidate Starts for Coletti_10:
(Start: 133 @8958 has 242 MA's), (164, 8997), (181, 9021), (183, 9024), (223, 9102), (267, 9192), (292, 9255),

Gene: Colucci_103 Start: 64172, Stop: 64684, Start Num: 139
Candidate Starts for Colucci_103:
(Start: 139 @64172 has 3 MA's), (196, 64262), (Start: 224 @64316 has 1 MA's), (273, 64463), (277, 64472), (281, 64481), (339, 64610),

Gene: Compostia_13 Start: 10667, Stop: 11107, Start Num: 133
Candidate Starts for Compostia_13:
(Start: 133 @10667 has 242 MA's), (265, 10889), (273, 10919), (281, 10937), (349, 11102),

Gene: Courthouse_162 Start: 84612, Stop: 85181, Start Num: 83
Candidate Starts for Courthouse_162:
(Start: 83 @84612 has 2 MA's), (Start: 110 @84654 has 1 MA's), (Start: 121 @84669 has 5 MA's), (245, 84891), (273, 84948), (282, 84969),

Gene: Craff_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Craff_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Crater_54 Start: 35514, Stop: 35963, Start Num: 145
Candidate Starts for Crater_54:
(Start: 92 @35433 has 4 MA's), (Start: 145 @35514 has 4 MA's), (188, 35586), (237, 35682), (257, 35718), (307, 35847), (351, 35952),

Gene: Crossroads_95 Start: 59527, Stop: 59940, Start Num: 133
Candidate Starts for Crossroads_95:
(Start: 133 @59527 has 242 MA's), (200, 59638), (229, 59677), (233, 59686), (270, 59764), (300, 59836), (331, 59914), (340, 59932),

Gene: Cumberbatch_45 Start: 30201, Stop: 30692, Start Num: 104
Candidate Starts for Cumberbatch_45:
(Start: 104 @30201 has 12 MA's), (267, 30453), (271, 30468),

Gene: Cursive_225 Start: 113007, Stop: 113447, Start Num: 159
Candidate Starts for Cursive_225:
(57, 112812), (67, 112848), (Start: 100 @112920 has 18 MA's), (103, 112926), (Start: 110 @112935 has 1 MA's), (Start: 133 @112965 has 242 MA's), (Start: 135 @112971 has 7 MA's), (Start: 136 @112974 has 4 MA's), (Start: 139 @112980 has 3 MA's), (Start: 159 @113007 has 12 MA's), (209, 113103), (235, 113154), (276, 113247), (303, 113319), (326, 113373), (343, 113406),

Gene: DHan_98 Start: 59751, Stop: 60164, Start Num: 133
Candidate Starts for DHan_98:
(Start: 133 @59751 has 242 MA's), (200, 59862), (229, 59901), (233, 59910), (270, 59988), (300, 60060), (331, 60138), (340, 60156),

Gene: DaRealMyers_43 Start: 31471, Stop: 31983, Start Num: 107
Candidate Starts for DaRealMyers_43:
(Start: 107 @31471 has 4 MA's), (153, 31528), (303, 31804), (327, 31873),

Gene: Daka_10 Start: 8946, Stop: 9380, Start Num: 133
Candidate Starts for Daka_10:
(Start: 133 @8946 has 242 MA's), (164, 8985), (181, 9009), (223, 9090), (267, 9180), (292, 9243),

Gene: DanBing_94 Start: 59444, Stop: 59857, Start Num: 133
Candidate Starts for DanBing_94:
(Start: 133 @59444 has 242 MA's), (200, 59555), (229, 59594), (233, 59603), (270, 59681), (300, 59753), (331, 59831), (340, 59849),

Gene: Darolandstone_43 Start: 33080, Stop: 33595, Start Num: 105

Candidate Starts for Darolandstone_43:
(39, 32861), (63, 32987), (Start: 105 @33080 has 3 MA's), (143, 33119), (279, 33359),

Gene: Daubenski_216 Start: 113389, Stop: 113829, Start Num: 159
Candidate Starts for Daubenski_216:
(56, 113191), (57, 113194), (61, 113218), (67, 113230), (69, 113233), (Start: 100 @113302 has 18 MA's), (103, 113308), (Start: 110 @113317 has 1 MA's), (Start: 133 @113347 has 242 MA's), (Start: 135 @113353 has 7 MA's), (Start: 159 @113389 has 12 MA's), (209, 113485), (235, 113536), (276, 113629), (303, 113701), (326, 113755), (343, 113788),

Gene: DeejaClivia_128 Start: 80469, Stop: 80885, Start Num: 172
Candidate Starts for DeejaClivia_128:
(26, 79992), (Start: 172 @80469 has 24 MA's), (202, 80526), (231, 80589), (256, 80658), (271, 80703), (286, 80742),

Gene: Dingo_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Dingo_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: DirkDirk_88 Start: 56705, Stop: 57115, Start Num: 133
Candidate Starts for DirkDirk_88:
(Start: 133 @56705 has 242 MA's), (155, 56735), (Start: 158 @56738 has 2 MA's), (185, 56783), (233, 56861), (248, 56903), (270, 56939), (289, 56981), (291, 56987), (310, 57035), (325, 57080), (340, 57107),

Gene: DirtJuice_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for DirtJuice_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: DoesntMatter_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for DoesntMatter_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Douge_96 Start: 58940, Stop: 59347, Start Num: 133
Candidate Starts for Douge_96:
(Start: 133 @58940 has 242 MA's), (Start: 145 @58961 has 4 MA's), (233, 59093), (278, 59189), (300, 59243), (321, 59294), (331, 59321), (333, 59324), (340, 59339),

Gene: Douzhi_96 Start: 59209, Stop: 59616, Start Num: 133
Candidate Starts for Douzhi_96:
(Start: 133 @59209 has 242 MA's), (Start: 145 @59230 has 4 MA's), (233, 59362), (278, 59458), (300, 59512), (321, 59563), (331, 59590), (333, 59593), (340, 59608),

Gene: DrSeegs_94 Start: 59815, Stop: 60228, Start Num: 133
Candidate Starts for DrSeegs_94:
(Start: 133 @59815 has 242 MA's), (200, 59926), (232, 59971), (233, 59974), (278, 60070), (300, 60124), (331, 60202), (340, 60220),

Gene: DrYang_96 Start: 63051, Stop: 63563, Start Num: 139
Candidate Starts for DrYang_96:
(Start: 139 @63051 has 3 MA's), (196, 63141), (223, 63192), (273, 63342), (277, 63351), (317, 63438),

Gene: DuncansLeg_92 Start: 59254, Stop: 59661, Start Num: 133

Candidate Starts for DuncansLeg_92:
(Start: 133 @59254 has 242 MA's), (Start: 145 @59275 has 4 MA's), (200, 59359), (232, 59404), (233, 59407), (270, 59485), (284, 59521), (321, 59608), (331, 59635),

Gene: Durga_10 Start: 8957, Stop: 9391, Start Num: 133
Candidate Starts for Durga_10:
(Start: 133 @8957 has 242 MA's), (164, 8996), (181, 9020), (223, 9101), (267, 9191), (292, 9254),

Gene: DyoEdafos_98 Start: 59531, Stop: 59938, Start Num: 133
Candidate Starts for DyoEdafos_98:
(Start: 133 @59531 has 242 MA's), (Start: 145 @59552 has 4 MA's), (161, 59567), (233, 59684), (244, 59720), (278, 59780), (300, 59834), (321, 59885), (331, 59912), (340, 59930),

Gene: E3_gp199 Start: 129947, Stop: 130468, Start Num: 96
Candidate Starts for E3_gp199:
(96, 129947), (193, 130100), (223, 130163), (238, 130202), (257, 130232), (267, 130265), (273, 130289), (287, 130325), (303, 130367), (332, 130448),

Gene: EMsquaredA_63 Start: 42816, Stop: 43277, Start Num: 144
Candidate Starts for EMsquaredA_63:
(58, 42666), (59, 42669), (87, 42744), (89, 42747), (Start: 144 @42816 has 23 MA's), (154, 42822), (202, 42903), (241, 42999), (281, 43116),

Gene: Eastland_44 Start: 30161, Stop: 30652, Start Num: 104
Candidate Starts for Eastland_44:
(Start: 104 @30161 has 12 MA's), (267, 30413), (271, 30428),

Gene: EdgarPoe_100 Start: 63731, Stop: 64225, Start Num: 144
Candidate Starts for EdgarPoe_100:
(Start: 80 @63623 has 1 MA's), (98, 63662), (Start: 144 @63731 has 23 MA's), (196, 63815), (230, 63887), (244, 63926), (346, 64196),

Gene: Eklok_44 Start: 29960, Stop: 30451, Start Num: 104
Candidate Starts for Eklok_44:
(Start: 104 @29960 has 12 MA's), (267, 30212), (271, 30227),

Gene: Ellson_91 Start: 59569, Stop: 59976, Start Num: 133
Candidate Starts for Ellson_91:
(Start: 133 @59569 has 242 MA's), (Start: 145 @59590 has 4 MA's), (200, 59674), (232, 59719), (233, 59722), (270, 59800), (284, 59836), (321, 59923), (331, 59950),

Gene: ElvisPhasley_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for ElvisPhasley_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: Emiris_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for Emiris_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: EmpTee_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for EmpTee_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: EnalisNailo_59 Start: 42622, Stop: 43077, Start Num: 144
Candidate Starts for EnalisNailo_59:
(64, 42490), (65, 42493), (87, 42550), (89, 42553), (Start: 144 @42622 has 23 MA's), (154, 42628), (Start: 172 @42649 has 24 MA's), (202, 42706), (228, 42763), (240, 42799), (281, 42916), (284, 42925), (306, 42985),

Gene: EnalisNailo_66 Start: 46449, Stop: 46868, Start Num: 140
Candidate Starts for EnalisNailo_66:
(37, 46161), (71, 46323), (98, 46386), (Start: 108 @46401 has 1 MA's), (Start: 115 @46410 has 1 MA's), (Start: 140 @46449 has 4 MA's), (149, 46461), (171, 46491), (218, 46590), (227, 46596), (285, 46734),

Gene: Enceladus_88 Start: 57406, Stop: 57816, Start Num: 133
Candidate Starts for Enceladus_88:
(Start: 133 @57406 has 242 MA's), (155, 57436), (Start: 158 @57439 has 2 MA's), (185, 57484), (233, 57562), (248, 57604), (270, 57640), (289, 57682), (291, 57688), (310, 57736), (325, 57781), (340, 57808),

Gene: Eremos_10 Start: 8937, Stop: 9371, Start Num: 133
Candidate Starts for Eremos_10:
(Start: 133 @8937 has 242 MA's), (164, 8976), (181, 9000), (223, 9081), (267, 9171), (292, 9234),

Gene: Etaye_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Etaye_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Eugenia_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for Eugenia_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: Eureka_81 Start: 51417, Stop: 51863, Start Num: 135
Candidate Starts for Eureka_81:
(118, 51393), (Start: 135 @51417 has 7 MA's), (171, 51471), (244, 51630), (267, 51669), (272, 51690), (318, 51801),

Gene: Faith1_95 Start: 59452, Stop: 59865, Start Num: 133
Candidate Starts for Faith1_95:
(Start: 133 @59452 has 242 MA's), (200, 59563), (232, 59608), (233, 59611), (278, 59707), (300, 59761), (331, 59839), (340, 59857),

Gene: Faja_72 Start: 38688, Stop: 39140, Start Num: 167
Candidate Starts for Faja_72:
(60, 38511), (Start: 136 @38652 has 4 MA's), (141, 38658), (Start: 167 @38688 has 3 MA's), (336, 39084),

Gene: Fang_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for Fang_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: FarmResident_97 Start: 59091, Stop: 59498, Start Num: 133
Candidate Starts for FarmResident_97:
(Start: 133 @59091 has 242 MA's), (Start: 145 @59112 has 4 MA's), (161, 59127), (233, 59244), (278, 59340), (300, 59394), (321, 59445), (331, 59472), (333, 59475), (340, 59490),

Gene: Farrylious_96 Start: 72578, Stop: 72991, Start Num: 156
Candidate Starts for Farrylious_96:
(102, 72503), (Start: 114 @72521 has 1 MA's), (Start: 156 @72578 has 2 MA's), (207, 72674), (227, 72701), (232, 72713), (233, 72716), (257, 72764),

Gene: Finch_155 Start: 99620, Stop: 100087, Start Num: 128
Candidate Starts for Finch_155:
(79, 99545), (Start: 128 @99620 has 2 MA's), (223, 99755), (257, 99824), (267, 99845), (273, 99869), (327, 99977), (336, 99995), (354, 100046),

Gene: Finch_154 Start: 99144, Stop: 99620, Start Num: 132
Candidate Starts for Finch_154:
(Start: 132 @99144 has 1 MA's), (168, 99192), (267, 99372), (302, 99462), (307, 99477), (355, 99588),

Gene: Finch_57 Start: 47485, Stop: 47922, Start Num: 157
Candidate Starts for Finch_57:
(Start: 157 @47485 has 1 MA's), (165, 47497), (191, 47542), (245, 47668), (256, 47695), (261, 47713), (286, 47779), (304, 47824), (329, 47881), (332, 47884),

Gene: Finch_186 Start: 111122, Stop: 111628, Start Num: 92
Candidate Starts for Finch_186:
(Start: 92 @111122 has 4 MA's), (183, 111254), (218, 111326), (229, 111341), (233, 111350),

Gene: Finch_82 Start: 71334, Stop: 71777, Start Num: 198
Candidate Starts for Finch_82:
(150, 71253), (176, 71289), (Start: 198 @71334 has 1 MA's), (219, 71382), (260, 71505), (262, 71508), (275, 71559), (299, 71625), (311, 71655),

Gene: Finemlucis_96 Start: 60566, Stop: 60979, Start Num: 133
Candidate Starts for Finemlucis_96:
(Start: 133 @60566 has 242 MA's), (200, 60677), (229, 60716), (233, 60725), (270, 60803), (300, 60875), (331, 60953), (340, 60971),

Gene: Finnry_92 Start: 59588, Stop: 59995, Start Num: 133
Candidate Starts for Finnry_92:
(Start: 133 @59588 has 242 MA's), (Start: 145 @59609 has 4 MA's), (232, 59738), (233, 59741), (270, 59819), (284, 59855), (321, 59942), (331, 59969),

Gene: Flake_10 Start: 8960, Stop: 9394, Start Num: 133
Candidate Starts for Flake_10:
(Start: 133 @8960 has 242 MA's), (164, 8999), (181, 9023), (183, 9026), (223, 9104), (267, 9194), (292, 9257),

Gene: Floral_64 Start: 44701, Stop: 45162, Start Num: 144
Candidate Starts for Floral_64:
(58, 44551), (59, 44554), (87, 44629), (89, 44632), (Start: 144 @44701 has 23 MA's), (154, 44707), (202, 44788), (241, 44884), (281, 45001),

Gene: Fludd_142 Start: 82309, Stop: 82725, Start Num: 172
Candidate Starts for Fludd_142:
(26, 81832), (Start: 172 @82309 has 24 MA's), (202, 82366), (231, 82429), (256, 82498), (271, 82543), (286, 82582),

Gene: FluffyNinja_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for FluffyNinja_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Footloose_54 Start: 31404, Stop: 31829, Start Num: 147
Candidate Starts for Footloose_54:
(55, 31218), (75, 31281), (Start: 147 @31404 has 1 MA's), (214, 31515), (221, 31530), (288, 31677), (289, 31680), (344, 31818),

Gene: Fosterous_16 Start: 14357, Stop: 14803, Start Num: 133
Candidate Starts for Fosterous_16:
(Start: 116 @14336 has 2 MA's), (Start: 124 @14348 has 5 MA's), (Start: 133 @14357 has 242 MA's), (Start: 158 @14387 has 2 MA's), (163, 14396), (257, 14567), (267, 14600), (281, 14642), (292, 14663), (309, 14708), (322, 14744),

Gene: Frankicide_10 Start: 8945, Stop: 9379, Start Num: 133
Candidate Starts for Frankicide_10:
(Start: 133 @8945 has 242 MA's), (164, 8984), (181, 9008), (223, 9089), (267, 9179), (292, 9242),

Gene: Fransoyer_69 Start: 49557, Stop: 49093, Start Num: 121
Candidate Starts for Fransoyer_69:
(85, 49611), (Start: 121 @49557 has 5 MA's), (199, 49434), (276, 49263), (282, 49248), (284, 49242),

Gene: FriarPreacher_10 Start: 8946, Stop: 9380, Start Num: 133
Candidate Starts for FriarPreacher_10:
(Start: 133 @8946 has 242 MA's), (164, 8985), (181, 9009), (223, 9090), (267, 9180), (292, 9243),

Gene: Fringe_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Fringe_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: FrumpyGal_45 Start: 30161, Stop: 30652, Start Num: 104
Candidate Starts for FrumpyGal_45:
(Start: 104 @30161 has 12 MA's), (267, 30413), (271, 30428),

Gene: GMA3_25 Start: 35593, Stop: 36075, Start Num: 125
Candidate Starts for GMA3_25:
(Start: 125 @35593 has 4 MA's), (173, 35656), (204, 35722), (216, 35743), (230, 35764), (234, 35773), (247, 35809), (342, 36034),

Gene: GMA6_35 Start: 29073, Stop: 29516, Start Num: 121
Candidate Starts for GMA6_35:
(111, 29058), (Start: 121 @29073 has 5 MA's), (129, 29082), (153, 29121), (174, 29145), (239, 29274), (244, 29286), (245, 29289), (258, 29301), (307, 29424),

Gene: GMA6_79 Start: 60811, Stop: 61245, Start Num: 119
Candidate Starts for GMA6_79:
(119, 60811), (Start: 147 @60850 has 1 MA's), (183, 60892), (211, 60946), (221, 60967), (266, 61051), (271, 61072),

Gene: Gabriela_95 Start: 58798, Stop: 59211, Start Num: 133
Candidate Starts for Gabriela_95:

(Start: 133 @58798 has 242 MA's), (200, 58909), (232, 58954), (233, 58957), (278, 59053), (300, 59107), (331, 59185), (340, 59203),

Gene: GageAP_46 Start: 34874, Stop: 34401, Start Num: 130
Candidate Starts for GageAP_46:
(Start: 130 @34874 has 1 MA's), (Start: 138 @34859 has 2 MA's), (186, 34787), (192, 34772), (232, 34709), (247, 34670), (274, 34616), (290, 34574), (303, 34538), (325, 34484),

Gene: Gaia_17 Start: 16945, Stop: 17430, Start Num: 138
Candidate Starts for Gaia_17:
(Start: 138 @16945 has 2 MA's), (143, 16954), (252, 17170), (271, 17209), (273, 17218), (297, 17269), (332, 17368),

Gene: Galadriel_20 Start: 14216, Stop: 14662, Start Num: 133
Candidate Starts for Galadriel_20:
(Start: 116 @14195 has 2 MA's), (Start: 124 @14207 has 5 MA's), (Start: 133 @14216 has 242 MA's), (Start: 158 @14246 has 2 MA's), (163, 14255), (257, 14426), (267, 14459), (281, 14501), (292, 14522), (309, 14567), (322, 14603),

Gene: Gardann_95 Start: 59299, Stop: 59712, Start Num: 133
Candidate Starts for Gardann_95:
(Start: 133 @59299 has 242 MA's), (200, 59410), (229, 59449), (233, 59458), (270, 59536), (300, 59608), (331, 59686), (340, 59704),

Gene: GeneCoco_10 Start: 8949, Stop: 9383, Start Num: 133
Candidate Starts for GeneCoco_10:
(Start: 133 @8949 has 242 MA's), (164, 8988), (181, 9012), (223, 9093), (267, 9183), (292, 9246),

Gene: Geodirt_33 Start: 32468, Stop: 31986, Start Num: 121
Candidate Starts for Geodirt_33:
(53, 32606), (73, 32552), (75, 32549), (102, 32495), (Start: 121 @32468 has 5 MA's), (226, 32285), (232, 32273), (300, 32111), (317, 32066),

Gene: Gizmo_126 Start: 66298, Stop: 65843, Start Num: 134
Candidate Starts for Gizmo_126:
(Start: 134 @66298 has 3 MA's), (191, 66211), (207, 66175), (230, 66139), (243, 66100), (271, 66049),

Gene: Globfish_58 Start: 33704, Stop: 34201, Start Num: 106
Candidate Starts for Globfish_58:
(65, 33614), (77, 33644), (99, 33692), (Start: 106 @33704 has 1 MA's), (Start: 109 @33707 has 3 MA's), (166, 33788), (184, 33818), (202, 33851), (223, 33896), (233, 33917), (257, 33965), (295, 34058),

Gene: Globfish_84 Start: 46529, Stop: 47017, Start Num: 115
Candidate Starts for Globfish_84:
(101, 46508), (Start: 115 @46529 has 1 MA's), (154, 46586), (168, 46604), (189, 46646), (227, 46721), (350, 47006),

Gene: Goku_81 Start: 51146, Stop: 51592, Start Num: 135
Candidate Starts for Goku_81:
(118, 51122), (Start: 135 @51146 has 7 MA's), (171, 51200), (244, 51359), (267, 51398), (272, 51419), (318, 51530),

Gene: Gophee_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Gophee_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Grayson_217 Start: 108140, Stop: 108661, Start Num: 139
Candidate Starts for Grayson_217:
(Start: 122 @108113 has 1 MA's), (Start: 128 @108119 has 2 MA's), (Start: 139 @108140 has 3 MA's), (197, 108236), (240, 108338), (246, 108356), (251, 108365), (253, 108368), (330, 108605),

Gene: Gustavo_49 Start: 42016, Stop: 42534, Start Num: 100
Candidate Starts for Gustavo_49:
(Start: 100 @42016 has 18 MA's), (123, 42046), (234, 42232), (273, 42322), (279, 42334), (353, 42529),

Gene: GuuelaD_92 Start: 59411, Stop: 59824, Start Num: 133
Candidate Starts for GuuelaD_92:
(Start: 133 @59411 has 242 MA's), (200, 59522), (229, 59561), (233, 59570), (270, 59648), (300, 59720), (331, 59798), (340, 59816),

Gene: Gwendoluna_12 Start: 7666, Stop: 8121, Start Num: 124
Candidate Starts for Gwendoluna_12:
(Start: 124 @7666 has 5 MA's), (146, 7699), (201, 7786), (229, 7846), (243, 7888), (281, 7966), (284, 7975), (317, 8056), (334, 8095),

Gene: Gwennie1_10 Start: 8961, Stop: 9395, Start Num: 133
Candidate Starts for Gwennie1_10:
(Start: 133 @8961 has 242 MA's), (164, 9000), (181, 9024), (223, 9105), (267, 9195), (292, 9258),

Gene: Gwilliam_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Gwilliam_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Gyarad_0010 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Gyarad_0010:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: HFrancette_45 Start: 30939, Stop: 31430, Start Num: 104
Candidate Starts for HFrancette_45:
(Start: 104 @30939 has 12 MA's), (267, 31191), (271, 31206),

Gene: HSavage_10 Start: 8945, Stop: 9379, Start Num: 133
Candidate Starts for HSavage_10:
(Start: 133 @8945 has 242 MA's), (164, 8984), (181, 9008), (223, 9089), (267, 9179), (292, 9242),

Gene: Hafay_96 Start: 59523, Stop: 59936, Start Num: 133
Candidate Starts for Hafay_96:
(Start: 133 @59523 has 242 MA's), (200, 59634), (229, 59673), (233, 59682), (270, 59760), (300, 59832), (331, 59910), (340, 59928),

Gene: Haimas_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Haimas_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Halena_88 Start: 56292, Stop: 56702, Start Num: 133
Candidate Starts for Halena_88:
(Start: 133 @56292 has 242 MA's), (155, 56322), (Start: 158 @56325 has 2 MA's), (185, 56370), (233, 56448), (248, 56490), (270, 56526), (289, 56568), (291, 56574), (310, 56622), (325, 56667), (340, 56694),

Gene: Hamish_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Hamish_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Hank144_56 Start: 39762, Stop: 39295, Start Num: 135
Candidate Starts for Hank144_56:
(Start: 135 @39762 has 7 MA's), (181, 39693), (218, 39615), (227, 39609), (243, 39561), (244, 39558), (264, 39531), (351, 39306),

Gene: Hartsy_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Hartsy_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Harvey_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for Harvey_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: Hertubise_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Hertubise_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Hestia_63 Start: 34911, Stop: 35363, Start Num: 167
Candidate Starts for Hestia_63:
(60, 34734), (Start: 136 @34875 has 4 MA's), (141, 34881), (Start: 167 @34911 has 3 MA's), (336, 35307),

Gene: Hetaeria_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Hetaeria_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Horchata_10 Start: 8942, Stop: 9376, Start Num: 133
Candidate Starts for Horchata_10:
(Start: 133 @8942 has 242 MA's), (164, 8981), (181, 9005), (223, 9086), (267, 9176), (292, 9239),

Gene: HumptyDumpty_100 Start: 63534, Stop: 64028, Start Num: 144
Candidate Starts for HumptyDumpty_100:
(Start: 80 @63426 has 1 MA's), (98, 63465), (Start: 144 @63534 has 23 MA's), (196, 63618), (230, 63690), (244, 63729), (346, 63999),

Gene: HyRo_132 Start: 82234, Stop: 82650, Start Num: 172
Candidate Starts for HyRo_132:
(26, 81757), (Start: 172 @82234 has 24 MA's), (202, 82291), (231, 82354), (256, 82423), (271, 82468), (286, 82507),

Gene: Hydra_4 Start: 1342, Stop: 1785, Start Num: 135
Candidate Starts for Hydra_4:
(Start: 135 @1342 has 7 MA's), (244, 1525), (267, 1561), (273, 1585), (295, 1630), (312, 1672),

Gene: Ididsumtinwong_46 Start: 30014, Stop: 30484, Start Num: 125
Candidate Starts for Ididsumtinwong_46:
(Start: 100 @29978 has 18 MA's), (Start: 125 @30014 has 4 MA's), (273, 30272), (281, 30290), (293, 30311),

Gene: Ignacio_44 Start: 30842, Stop: 31333, Start Num: 104
Candidate Starts for Ignacio_44:
(Start: 104 @30842 has 12 MA's), (267, 31094), (271, 31109),

Gene: Inchworm_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Inchworm_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Inverness_10 Start: 8945, Stop: 9379, Start Num: 133
Candidate Starts for Inverness_10:
(Start: 133 @8945 has 242 MA's), (164, 8984), (181, 9008), (223, 9089), (267, 9179), (292, 9242),

Gene: Iridoclysis_10 Start: 8947, Stop: 9381, Start Num: 133
Candidate Starts for Iridoclysis_10:
(Start: 133 @8947 has 242 MA's), (164, 8986), (181, 9010), (223, 9091), (267, 9181), (292, 9244),

Gene: IrishSherpFalk_88 Start: 51234, Stop: 51749, Start Num: 112
Candidate Starts for IrishSherpFalk_88:
(Start: 112 @51234 has 1 MA's), (Start: 114 @51237 has 1 MA's), (Start: 159 @51297 has 12 MA's), (244, 51474), (272, 51534), (309, 51621), (332, 51687), (345, 51720),

Gene: IsaacEli_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for IsaacEli_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Itos_95 Start: 58358, Stop: 58771, Start Num: 133
Candidate Starts for Itos_95:
(Start: 133 @58358 has 242 MA's), (200, 58469), (232, 58514), (233, 58517), (278, 58613), (300, 58667), (331, 58745), (340, 58763),

Gene: JKSyngboy_47 Start: 42615, Stop: 43133, Start Num: 100
Candidate Starts for JKSyngboy_47:
(Start: 100 @42615 has 18 MA's), (123, 42645), (234, 42831), (273, 42921), (279, 42933), (353, 43128),

Gene: JaNo_99 Start: 63505, Stop: 63999, Start Num: 144
Candidate Starts for JaNo_99:
(Start: 80 @63397 has 1 MA's), (98, 63436), (Start: 144 @63505 has 23 MA's), (196, 63589), (230, 63661), (244, 63700), (346, 63970),

Gene: JacAttac_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for JacAttac_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: JangoPhett_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for JangoPhett_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Jessibeth14_140 Start: 83080, Stop: 83496, Start Num: 172
Candidate Starts for Jessibeth14_140:
(26, 82603), (Start: 172 @83080 has 24 MA's), (202, 83137), (231, 83200), (256, 83269), (271, 83314), (286, 83353),

Gene: Jobypre_92 Start: 59235, Stop: 59642, Start Num: 133
Candidate Starts for Jobypre_92:
(Start: 133 @59235 has 242 MA's), (Start: 145 @59256 has 4 MA's), (232, 59385), (233, 59388), (270, 59466), (284, 59502), (321, 59589), (331, 59616),

Gene: JoeDirt_92 Start: 57967, Stop: 58377, Start Num: 133
Candidate Starts for JoeDirt_92:
(Start: 133 @57967 has 242 MA's), (155, 57997), (Start: 158 @58000 has 2 MA's), (185, 58045), (233, 58123), (248, 58165), (270, 58201), (289, 58243), (291, 58249), (310, 58297), (325, 58342), (340, 58369),

Gene: JohnLord_44 Start: 39902, Stop: 39378, Start Num: 146
Candidate Starts for JohnLord_44:
(146, 39902), (179, 39854), (192, 39827), (245, 39713), (267, 39680), (273, 39656), (314, 39554), (347, 39458), (356, 39404),

Gene: Jollymon_3 Start: 2875, Stop: 3255, Start Num: 131
Candidate Starts for Jollymon_3:
(Start: 131 @2875 has 2 MA's), (190, 2959), (207, 2992), (227, 3019), (232, 3031), (233, 3034), (281, 3145), (295, 3181), (327, 3235), (332, 3244),

Gene: Jubie_91 Start: 59370, Stop: 59777, Start Num: 133
Candidate Starts for Jubie_91:
(Start: 133 @59370 has 242 MA's), (Start: 145 @59391 has 4 MA's), (232, 59520), (233, 59523), (270, 59601), (284, 59637), (321, 59724), (331, 59751),

Gene: KBurrousTX_96 Start: 64281, Stop: 64742, Start Num: 144
Candidate Starts for KBurrousTX_96:
(Start: 144 @64281 has 23 MA's), (Start: 159 @64299 has 12 MA's), (219, 64410), (255, 64503), (259, 64521), (267, 64536), (283, 64584),

Gene: KLucky39_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for KLucky39_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Kabreeze_100 Start: 63591, Stop: 64085, Start Num: 144
Candidate Starts for Kabreeze_100:
(Start: 80 @63483 has 1 MA's), (98, 63522), (Start: 144 @63591 has 23 MA's), (196, 63675), (230, 63747), (244, 63786), (346, 64056),

Gene: Kahlid_94 Start: 59217, Stop: 59630, Start Num: 133
Candidate Starts for Kahlid_94:
(Start: 133 @59217 has 242 MA's), (200, 59328), (229, 59367), (233, 59376), (270, 59454), (300, 59526), (331, 59604), (340, 59622),

Gene: Kailash_10 Start: 8952, Stop: 9386, Start Num: 133
Candidate Starts for Kailash_10:

(Start: 133 @8952 has 242 MA's), (164, 8991), (181, 9015), (223, 9096), (267, 9186), (292, 9249),

Gene: Kamashten_49 Start: 42108, Stop: 42626, Start Num: 100
Candidate Starts for Kamashten_49:
(Start: 100 @42108 has 18 MA's), (234, 42324), (273, 42414), (279, 42426),

Gene: Katniss_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for Katniss_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: Keitabear_50 Start: 43627, Stop: 44148, Start Num: 84
Candidate Starts for Keitabear_50:
(81, 43618), (Start: 84 @43627 has 5 MA's), (Start: 100 @43630 has 18 MA's), (234, 43846), (273, 43936), (279, 43948),

Gene: Keitabear_20 Start: 16560, Stop: 17006, Start Num: 133
Candidate Starts for Keitabear_20:
(Start: 116 @16539 has 2 MA's), (Start: 124 @16551 has 5 MA's), (Start: 133 @16560 has 242 MA's), (Start: 158 @16590 has 2 MA's), (163, 16599), (257, 16770), (267, 16803), (281, 16845), (292, 16866), (309, 16911), (322, 16947),

Gene: Keitherie_10 Start: 8957, Stop: 9391, Start Num: 133
Candidate Starts for Keitherie_10:
(Start: 133 @8957 has 242 MA's), (164, 8996), (181, 9020), (183, 9023), (223, 9101), (267, 9191), (292, 9254),

Gene: KentuckyRacer_110 Start: 73819, Stop: 74262, Start Num: 151
Candidate Starts for KentuckyRacer_110:
(Start: 151 @73819 has 1 MA's), (267, 74038), (271, 74053), (284, 74089),

Gene: Kewpiedoll_51 Start: 43059, Stop: 43577, Start Num: 100
Candidate Starts for Kewpiedoll_51:
(81, 43047), (Start: 84 @43056 has 5 MA's), (Start: 100 @43059 has 18 MA's), (234, 43275), (273, 43365), (279, 43377),

Gene: Kikipoo_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Kikipoo_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: KingVeVeVe_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for KingVeVeVe_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: Kingsolomon_90 Start: 59344, Stop: 59751, Start Num: 133
Candidate Starts for Kingsolomon_90:
(Start: 133 @59344 has 242 MA's), (Start: 145 @59365 has 4 MA's), (232, 59494), (233, 59497), (270, 59575), (284, 59611), (321, 59698), (331, 59725),

Gene: KirDoubleO7_90 Start: 59256, Stop: 59663, Start Num: 133
Candidate Starts for KirDoubleO7_90:
(Start: 133 @59256 has 242 MA's), (Start: 145 @59277 has 4 MA's), (200, 59361), (232, 59406), (233, 59409), (270, 59487), (284, 59523), (321, 59610), (331, 59637),

Gene: KlimbOn_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for KlimbOn_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Kloppinator_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Kloppinator_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Koguma_138 Start: 80718, Stop: 81134, Start Num: 172
Candidate Starts for Koguma_138:
(26, 80241), (Start: 172 @80718 has 24 MA's), (202, 80775), (231, 80838), (256, 80907), (271, 80952), (286, 80991),

Gene: Kroos_19 Start: 14665, Stop: 15102, Start Num: 158
Candidate Starts for Kroos_19:
(Start: 124 @14620 has 5 MA's), (Start: 133 @14629 has 242 MA's), (Start: 158 @14665 has 2 MA's), (188, 14716), (223, 14782), (281, 14926), (292, 14947),

Gene: Kropertea_92 Start: 58811, Stop: 59221, Start Num: 133
Candidate Starts for Kropertea_92:
(Start: 133 @58811 has 242 MA's), (Start: 145 @58832 has 4 MA's), (161, 58847), (233, 58967), (244, 59003), (278, 59063), (300, 59117), (321, 59168), (331, 59195), (340, 59213),

Gene: Krypton555_94 Start: 59747, Stop: 60154, Start Num: 133
Candidate Starts for Krypton555_94:
(Start: 133 @59747 has 242 MA's), (Start: 145 @59768 has 4 MA's), (200, 59852), (232, 59897), (233, 59900), (270, 59978), (284, 60014), (321, 60101), (331, 60128),

Gene: Kumotta_56 Start: 32485, Stop: 32964, Start Num: 125
Candidate Starts for Kumotta_56:
(69, 32380), (120, 32479), (Start: 125 @32485 has 4 MA's), (237, 32686), (242, 32701), (267, 32743), (299, 32827),

Gene: Kwobi_20 Start: 14596, Stop: 15078, Start Num: 124
Candidate Starts for Kwobi_20:
(Start: 124 @14596 has 5 MA's), (Start: 133 @14605 has 242 MA's), (Start: 158 @14641 has 2 MA's), (188, 14692), (223, 14758), (281, 14902), (292, 14923),

Gene: Kwobi_51 Start: 42725, Stop: 43243, Start Num: 100
Candidate Starts for Kwobi_51:
(Start: 100 @42725 has 18 MA's), (123, 42755), (234, 42941), (273, 43031), (279, 43043),

Gene: LRRHood_134 Start: 82526, Stop: 82942, Start Num: 172
Candidate Starts for LRRHood_134:
(26, 82049), (Start: 172 @82526 has 24 MA's), (202, 82583), (231, 82646), (256, 82715), (271, 82760), (286, 82799),

Gene: Larnav_222 Start: 113173, Stop: 113613, Start Num: 159
Candidate Starts for Larnav_222:
(57, 112978), (67, 113014), (Start: 100 @113086 has 18 MA's), (103, 113092), (Start: 110 @113101 has 1 MA's), (Start: 133 @113131 has 242 MA's), (Start: 135 @113137 has 7 MA's), (Start: 136 @113140 has 4 MA's), (Start: 139 @113146 has 3 MA's), (Start: 159 @113173 has 12 MA's), (209, 113269), (235, 113320), (276, 113413), (303, 113485), (326, 113539), (343, 113572),

Gene: LasagnaCat_10 Start: 8952, Stop: 9386, Start Num: 133
Candidate Starts for LasagnaCat_10:
(Start: 133 @8952 has 242 MA's), (164, 8991), (181, 9015), (223, 9096), (267, 9186), (292, 9249),

Gene: Lasker_72 Start: 38250, Stop: 38732, Start Num: 141
Candidate Starts for Lasker_72:
(60, 38103), (Start: 136 @38244 has 4 MA's), (141, 38250), (Start: 167 @38280 has 3 MA's), (336, 38676),

Gene: Lasso_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Lasso_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: LeBron_90 Start: 56599, Stop: 57009, Start Num: 133
Candidate Starts for LeBron_90:
(Start: 133 @56599 has 242 MA's), (155, 56629), (Start: 158 @56632 has 2 MA's), (185, 56677), (233, 56755), (248, 56797), (270, 56833), (289, 56875), (291, 56881), (310, 56929), (325, 56974), (340, 57001),

Gene: LeeLot_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for LeeLot_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: LeeroyJenkins_94 Start: 49860, Stop: 49351, Start Num: 92
Candidate Starts for LeeroyJenkins_94:
(Start: 92 @49860 has 4 MA's), (203, 49689), (206, 49683), (225, 49653), (245, 49599), (271, 49551),

Gene: Lego3393_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Lego3393_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Lennon_20 Start: 15643, Stop: 16110, Start Num: 116
Candidate Starts for Lennon_20:
(Start: 116 @15643 has 2 MA's), (Start: 124 @15655 has 5 MA's), (Start: 133 @15664 has 242 MA's), (Start: 158 @15694 has 2 MA's), (163, 15703), (257, 15874), (267, 15907), (281, 15949), (292, 15970), (309, 16015), (322, 16051),

Gene: Lennon_50 Start: 43707, Stop: 44228, Start Num: 84
Candidate Starts for Lennon_50:
(81, 43698), (Start: 84 @43707 has 5 MA's), (Start: 100 @43710 has 18 MA's), (234, 43926), (273, 44016), (279, 44028),

Gene: Lewan_96 Start: 59451, Stop: 59864, Start Num: 133
Candidate Starts for Lewan_96:
(Start: 133 @59451 has 242 MA's), (200, 59562), (229, 59601), (233, 59610), (270, 59688), (300, 59760), (331, 59838), (340, 59856),

Gene: LilDestine_93 Start: 59128, Stop: 59541, Start Num: 133
Candidate Starts for LilDestine_93:
(Start: 133 @59128 has 242 MA's), (200, 59239), (229, 59278), (233, 59287), (270, 59365), (300, 59437), (331, 59515), (340, 59533),

Gene: Lilas_67 Start: 47987, Stop: 48406, Start Num: 140
Candidate Starts for Lilas_67:
(37, 47699), (71, 47861), (98, 47924), (Start: 108 @47939 has 1 MA's), (Start: 115 @47948 has 1 MA's), (Start: 140 @47987 has 4 MA's), (149, 47999), (171, 48029), (218, 48128), (227, 48134), (285, 48272),

Gene: Linus_100 Start: 64039, Stop: 64533, Start Num: 144
Candidate Starts for Linus_100:
(Start: 80 @63931 has 1 MA's), (98, 63970), (Start: 144 @64039 has 23 MA's), (196, 64123), (230, 64195), (244, 64234), (346, 64504),

Gene: Lishka_42 Start: 27718, Stop: 28179, Start Num: 125
Candidate Starts for Lishka_42:
(Start: 125 @27718 has 4 MA's), (267, 27982), (272, 28003), (305, 28066),

Gene: LiyuLake_91 Start: 59329, Stop: 59736, Start Num: 133
Candidate Starts for LiyuLake_91:
(Start: 133 @59329 has 242 MA's), (Start: 145 @59350 has 4 MA's), (200, 59434), (232, 59479), (233, 59482), (270, 59560), (284, 59596), (321, 59683), (331, 59710),

Gene: Loadrie_94 Start: 59619, Stop: 60032, Start Num: 133
Candidate Starts for Loadrie_94:
(Start: 133 @59619 has 242 MA's), (200, 59730), (229, 59769), (233, 59778), (270, 59856), (300, 59928), (331, 60006), (340, 60024),

Gene: LolaVinca_141 Start: 83494, Stop: 83910, Start Num: 172
Candidate Starts for LolaVinca_141:
(26, 83017), (Start: 172 @83494 has 24 MA's), (202, 83551), (231, 83614), (256, 83683), (271, 83728), (286, 83767),

Gene: Lolly9_91 Start: 59420, Stop: 59827, Start Num: 133
Candidate Starts for Lolly9_91:
(Start: 133 @59420 has 242 MA's), (Start: 145 @59441 has 4 MA's), (200, 59525), (232, 59570), (270, 59651), (284, 59687), (321, 59774), (331, 59801),

Gene: LordFarquaad_67 Start: 43212, Stop: 43631, Start Num: 140
Candidate Starts for LordFarquaad_67:
(71, 43086), (86, 43128), (98, 43149), (Start: 115 @43173 has 1 MA's), (Start: 140 @43212 has 4 MA's), (149, 43224), (171, 43254), (227, 43359), (285, 43497),

Gene: Love_20 Start: 14527, Stop: 14973, Start Num: 133
Candidate Starts for Love_20:
(Start: 116 @14506 has 2 MA's), (Start: 124 @14518 has 5 MA's), (Start: 133 @14527 has 242 MA's), (Start: 158 @14557 has 2 MA's), (163, 14566), (257, 14737), (267, 14770), (281, 14812), (292, 14833), (309, 14878), (322, 14914),

Gene: Love_55 Start: 44334, Stop: 44852, Start Num: 100
Candidate Starts for Love_55:
(81, 44322), (Start: 84 @44331 has 5 MA's), (Start: 100 @44334 has 18 MA's), (234, 44550), (273, 44640), (279, 44652),

Gene: Lton_30 Start: 23640, Stop: 24134, Start Num: 104
Candidate Starts for Lton_30:

(Start: 104 @23640 has 12 MA's), (162, 23715), (Start: 167 @23721 has 3 MA's), (209, 23784), (271, 23916), (288, 23958), (294, 23973),

Gene: Lukilu_131 Start: 83536, Stop: 83952, Start Num: 172
Candidate Starts for Lukilu_131:
(26, 83059), (Start: 172 @83536 has 24 MA's), (202, 83593), (231, 83656), (256, 83725), (271, 83770), (286, 83809),

Gene: Lululemon_219 Start: 112060, Stop: 112500, Start Num: 159
Candidate Starts for Lululemon_219:
(57, 111865), (67, 111901), (Start: 100 @111973 has 18 MA's), (103, 111979), (Start: 110 @111988 has 1 MA's), (Start: 133 @112018 has 242 MA's), (Start: 135 @112024 has 7 MA's), (Start: 136 @112027 has 4 MA's), (Start: 139 @112033 has 3 MA's), (Start: 159 @112060 has 12 MA's), (209, 112156), (235, 112207), (276, 112300), (303, 112372), (326, 112426), (343, 112459),

Gene: Lulwa_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Lulwa_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Lumos_92 Start: 59232, Stop: 59639, Start Num: 133
Candidate Starts for Lumos_92:
(Start: 133 @59232 has 242 MA's), (Start: 145 @59253 has 4 MA's), (232, 59382), (233, 59385), (270, 59463), (284, 59499), (321, 59586), (331, 59613),

Gene: Lymara_98 Start: 62394, Stop: 62876, Start Num: 144
Candidate Starts for Lymara_98:
(51, 62202), (Start: 80 @62298 has 1 MA's), (Start: 144 @62394 has 23 MA's), (223, 62526),

Gene: Lynnae_96 Start: 59229, Stop: 59642, Start Num: 133
Candidate Starts for Lynnae_96:
(Start: 133 @59229 has 242 MA's), (200, 59340), (229, 59379), (233, 59388), (270, 59466), (300, 59538), (331, 59616), (340, 59634),

Gene: MAckerman_89 Start: 56285, Stop: 56695, Start Num: 133
Candidate Starts for MAckerman_89:
(Start: 133 @56285 has 242 MA's), (155, 56315), (Start: 158 @56318 has 2 MA's), (185, 56363), (233, 56441), (248, 56483), (270, 56519), (289, 56561), (291, 56567), (310, 56615), (325, 56660), (340, 56687),

Gene: Magic8_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Magic8_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Makar_96 Start: 57907, Stop: 11, Start Num: 151
Candidate Starts for Makar_96:
(79, 57787), (Start: 112 @57847 has 1 MA's), (Start: 151 @57907 has 1 MA's), (177, 57943), (209, 58012), (217, 58027), (Start: 224 @58030 has 1 MA's), (315, 58225),

Gene: Manda_84 Start: 52535, Stop: 52981, Start Num: 135
Candidate Starts for Manda_84:
(118, 52511), (Start: 135 @52535 has 7 MA's), (171, 52589), (244, 52748), (267, 52787), (272, 52808), (318, 52919),

Gene: Mangeria_141 Start: 83337, Stop: 83753, Start Num: 172
Candidate Starts for Mangeria_141:
(26, 82860), (Start: 172 @83337 has 24 MA's), (202, 83394), (231, 83457), (256, 83526), (271, 83571), (286, 83610),

Gene: Marteena_62 Start: 42816, Stop: 43277, Start Num: 144
Candidate Starts for Marteena_62:
(58, 42666), (59, 42669), (87, 42744), (89, 42747), (Start: 144 @42816 has 23 MA's), (154, 42822), (202, 42903), (241, 42999), (281, 43116),

Gene: Matalotodo_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for Matalotodo_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: Matteo_53 Start: 35852, Stop: 36313, Start Num: 144
Candidate Starts for Matteo_53:
(58, 35702), (87, 35780), (89, 35783), (Start: 144 @35852 has 23 MA's), (154, 35858), (202, 35939), (241, 36035), (281, 36152),

Gene: McCrothy_19 Start: 14432, Stop: 14839, Start Num: 163
Candidate Starts for McCrothy_19:
(Start: 116 @14372 has 2 MA's), (Start: 124 @14384 has 5 MA's), (Start: 133 @14393 has 242 MA's), (Start: 158 @14423 has 2 MA's), (163, 14432), (257, 14603), (267, 14636), (281, 14678), (292, 14699), (309, 14744), (322, 14780),

Gene: McCrothy_51 Start: 43461, Stop: 43982, Start Num: 84
Candidate Starts for McCrothy_51:
(81, 43452), (Start: 84 @43461 has 5 MA's), (Start: 100 @43464 has 18 MA's), (234, 43680), (273, 43770), (279, 43782),

Gene: Megatron_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Megatron_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Melc17_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Melc17_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Mesh1_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Mesh1_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: MikeLiesIn_142 Start: 83297, Stop: 83713, Start Num: 172
Candidate Starts for MikeLiesIn_142:
(26, 82820), (Start: 172 @83297 has 24 MA's), (202, 83354), (231, 83417), (256, 83486), (271, 83531), (286, 83570),

Gene: Mikota_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Mikota_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Mila11_96 Start: 59511, Stop: 59011, Start Num: 155
Candidate Starts for Mila11_96:

(41, 59790), (42, 59787), (52, 59730), (66, 59670), (137, 59538), (155, 59511), (163, 59499), (170, 59490), (249, 59310), (254, 59292), (268, 59232),

Gene: Mildred21_232 Start: 111445, Stop: 111885, Start Num: 159
Candidate Starts for Mildred21_232:
(Start: 139 @111418 has 3 MA's), (Start: 159 @111445 has 12 MA's), (235, 111592), (276, 111685), (303, 111757), (326, 111811), (343, 111844),

Gene: Miley16_95 Start: 59815, Stop: 60228, Start Num: 133
Candidate Starts for Miley16_95:
(Start: 133 @59815 has 242 MA's), (200, 59926), (232, 59971), (233, 59974), (278, 60070), (300, 60124), (331, 60202), (340, 60220),

Gene: MiniBoss_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for MiniBoss_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: MiniLon_96 Start: 59421, Stop: 59828, Start Num: 133
Candidate Starts for MiniLon_96:
(Start: 133 @59421 has 242 MA's), (Start: 145 @59442 has 4 MA's), (200, 59526), (232, 59571), (270, 59652), (284, 59688), (321, 59775), (331, 59802),

Gene: MiniMac_96 Start: 59416, Stop: 59823, Start Num: 133
Candidate Starts for MiniMac_96:
(Start: 133 @59416 has 242 MA's), (Start: 145 @59437 has 4 MA's), (200, 59521), (232, 59566), (270, 59647), (284, 59683), (321, 59770), (331, 59797),

Gene: MintFritos_94 Start: 72730, Stop: 73143, Start Num: 156
Candidate Starts for MintFritos_94:
(102, 72655), (Start: 114 @72673 has 1 MA's), (Start: 156 @72730 has 2 MA's), (207, 72826), (227, 72853), (232, 72865), (233, 72868), (257, 72916),

Gene: MkaliMitinis3_97 Start: 59582, Stop: 59995, Start Num: 133
Candidate Starts for MkaliMitinis3_97:
(Start: 133 @59582 has 242 MA's), (200, 59693), (229, 59732), (233, 59741), (270, 59819), (300, 59891), (331, 59969), (340, 59987),

Gene: Moby_134 Start: 80939, Stop: 81355, Start Num: 172
Candidate Starts for Moby_134:
(26, 80462), (Start: 172 @80939 has 24 MA's), (202, 80996), (231, 81059), (256, 81128), (271, 81173), (286, 81212),

Gene: ModicumRichard_20 Start: 18713, Stop: 18225, Start Num: 121
Candidate Starts for ModicumRichard_20:
(14, 19316), (18, 19235), (19, 19211), (21, 19175), (22, 19145), (25, 19130), (35, 18977), (54, 18863), (72, 18806), (74, 18797), (75, 18794), (Start: 121 @18713 has 5 MA's), (178, 18629), (190, 18605), (212, 18560), (227, 18533), (232, 18521), (234, 18515), (284, 18395),

Gene: Moiqah_133 Start: 80916, Stop: 81332, Start Num: 172
Candidate Starts for Moiqah_133:
(26, 80439), (Start: 172 @80916 has 24 MA's), (202, 80973), (231, 81036), (256, 81105), (271, 81150), (286, 81189),

Gene: Mojorita_45 Start: 30760, Stop: 31281, Start Num: 107
Candidate Starts for Mojorita_45:
(Start: 107 @30760 has 4 MA's), (281, 31048), (303, 31099), (315, 31132), (319, 31138), (327, 31168),

Gene: MoontowerMania_50 Start: 43336, Stop: 43860, Start Num: 100
Candidate Starts for MoontowerMania_50:
(93, 43324), (97, 43333), (Start: 100 @43336 has 18 MA's), (234, 43558), (273, 43648), (279, 43660),

Gene: Moostard_89 Start: 59339, Stop: 59746, Start Num: 133
Candidate Starts for Moostard_89:
(Start: 133 @59339 has 242 MA's), (Start: 145 @59360 has 4 MA's), (232, 59489), (233, 59492), (270, 59570), (284, 59606), (321, 59693), (331, 59720),

Gene: Mordred_100 Start: 63630, Stop: 64124, Start Num: 144
Candidate Starts for Mordred_100:
(Start: 80 @63522 has 1 MA's), (98, 63561), (Start: 144 @63630 has 23 MA's), (196, 63714), (230, 63786), (244, 63825), (346, 64095),

Gene: Morty_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Morty_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: MsGreen_92 Start: 59234, Stop: 59641, Start Num: 133
Candidate Starts for MsGreen_92:
(Start: 133 @59234 has 242 MA's), (Start: 145 @59255 has 4 MA's), (232, 59384), (233, 59387), (270, 59465), (284, 59501), (321, 59588), (331, 59615),

Gene: Murdoc_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Murdoc_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Nacho_0010 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Nacho_0010:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Nathan_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Nathan_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Nebkiss_18 Start: 16946, Stop: 17431, Start Num: 138
Candidate Starts for Nebkiss_18:
(Start: 138 @16946 has 2 MA's), (143, 16955), (252, 17171), (271, 17210), (273, 17219), (297, 17270), (332, 17369),

Gene: Neobush_64 Start: 42273, Stop: 42734, Start Num: 144
Candidate Starts for Neobush_64:
(95, 42207), (Start: 144 @42273 has 23 MA's), (228, 42420), (240, 42456), (252, 42483), (267, 42531), (281, 42573), (284, 42582), (306, 42642),

Gene: Netyap_94 Start: 59453, Stop: 59866, Start Num: 133
Candidate Starts for Netyap_94:
(Start: 133 @59453 has 242 MA's), (200, 59564), (232, 59609), (233, 59612), (278, 59708), (300, 59762), (331, 59840), (340, 59858),

Gene: Newman_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Newman_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Nicholas_90 Start: 59344, Stop: 59751, Start Num: 133
Candidate Starts for Nicholas_90:
(Start: 133 @59344 has 242 MA's), (Start: 145 @59365 has 4 MA's), (232, 59494), (233, 59497), (270, 59575), (284, 59611), (321, 59698), (331, 59725),

Gene: Nicholasp3_95 Start: 59299, Stop: 59712, Start Num: 133
Candidate Starts for Nicholasp3_95:
(Start: 133 @59299 has 242 MA's), (200, 59410), (229, 59449), (233, 59458), (270, 59536), (300, 59608), (331, 59686), (340, 59704),

Gene: Nicole21_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Nicole21_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Nordenberg_13 Start: 12847, Stop: 13293, Start Num: 133
Candidate Starts for Nordenberg_13:
(Start: 116 @12826 has 2 MA's), (Start: 124 @12838 has 5 MA's), (Start: 133 @12847 has 242 MA's), (Start: 158 @12877 has 2 MA's), (163, 12886), (257, 13057), (267, 13090), (281, 13132), (292, 13153), (309, 13198), (322, 13234),

Gene: Numberten_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Numberten_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: OSmaximus_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for OSmaximus_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: ObLaDi_20 Start: 18692, Stop: 18204, Start Num: 121
Candidate Starts for ObLaDi_20:
(1, 19712), (2, 19706), (3, 19688), (14, 19295), (18, 19214), (19, 19190), (21, 19154), (22, 19124), (25, 19109), (35, 18956), (54, 18842), (72, 18785), (74, 18776), (75, 18773), (Start: 121 @18692 has 5 MA's), (178, 18608), (190, 18584), (212, 18539), (227, 18512), (232, 18500), (234, 18494), (284, 18374),

Gene: OhShagHennessy_87 Start: 56542, Stop: 56952, Start Num: 133
Candidate Starts for OhShagHennessy_87:
(Start: 133 @56542 has 242 MA's), (155, 56572), (Start: 158 @56575 has 2 MA's), (185, 56620), (233, 56698), (248, 56740), (270, 56776), (289, 56818), (291, 56824), (310, 56872), (325, 56917), (340, 56944),

Gene: Olive_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Olive_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: OliverWalter_10 Start: 8939, Stop: 9373, Start Num: 133
Candidate Starts for OliverWalter_10:
(Start: 133 @8939 has 242 MA's), (164, 8978), (181, 9002), (223, 9083), (267, 9173), (292, 9236),

Gene: Omniscient_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Omniscient_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Oosterbaan_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for Oosterbaan_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: Orion_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Orion_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: OverPar_97 Start: 59619, Stop: 60032, Start Num: 133
Candidate Starts for OverPar_97:
(Start: 133 @59619 has 242 MA's), (200, 59730), (229, 59769), (233, 59778), (270, 59856), (300, 59928), (331, 60006), (340, 60024),

Gene: PG1_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for PG1_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: PYPDinur_96 Start: 59772, Stop: 60179, Start Num: 133
Candidate Starts for PYPDinur_96:
(Start: 133 @59772 has 242 MA's), (Start: 145 @59793 has 4 MA's), (233, 59925), (278, 60021), (300, 60075), (321, 60126), (331, 60153), (333, 60156), (340, 60171),

Gene: PacManQ_219 Start: 112060, Stop: 112500, Start Num: 159
Candidate Starts for PacManQ_219:
(57, 111865), (67, 111901), (Start: 100 @111973 has 18 MA's), (103, 111979), (Start: 110 @111988 has 1 MA's), (Start: 133 @112018 has 242 MA's), (Start: 135 @112024 has 7 MA's), (Start: 136 @112027 has 4 MA's), (Start: 139 @112033 has 3 MA's), (Start: 159 @112060 has 12 MA's), (209, 112156), (235, 112207), (276, 112300), (303, 112372), (326, 112426), (343, 112459),

Gene: PapayaSalad_44 Start: 30268, Stop: 30774, Start Num: 100
Candidate Starts for PapayaSalad_44:
(Start: 100 @30268 has 18 MA's), (Start: 125 @30304 has 4 MA's), (273, 30562), (281, 30580), (293, 30601),

Gene: Paries_19 Start: 14215, Stop: 14661, Start Num: 133
Candidate Starts for Paries_19:
(Start: 116 @14194 has 2 MA's), (Start: 124 @14206 has 5 MA's), (Start: 133 @14215 has 242 MA's), (Start: 158 @14245 has 2 MA's), (163, 14254), (257, 14425), (267, 14458), (281, 14500), (292, 14521), (309, 14566), (322, 14602),

Gene: Phamished_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Phamished_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: PhatCats2014_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for PhatCats2014_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: PhatLouie_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for PhatLouie_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Pherdinand_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Pherdinand_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Phipps_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Phipps_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Phistory_56 Start: 36066, Stop: 36515, Start Num: 145
Candidate Starts for Phistory_56:
(Start: 92 @35985 has 4 MA's), (Start: 145 @36066 has 4 MA's), (188, 36138), (237, 36234), (257, 36270), (307, 36399), (312, 36405), (351, 36504),

Gene: PhorbesPhlower_38 Start: 28562, Stop: 29011, Start Num: 145
Candidate Starts for PhorbesPhlower_38:
(Start: 92 @28481 has 4 MA's), (Start: 145 @28562 has 4 MA's), (237, 28730), (257, 28766), (307, 28895), (351, 29000),

Gene: Phox_138 Start: 83560, Stop: 83976, Start Num: 172
Candidate Starts for Phox_138:
(26, 83083), (Start: 172 @83560 has 24 MA's), (202, 83617), (231, 83680), (256, 83749), (271, 83794), (286, 83833),

Gene: PhrodoBaggins_105 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for PhrodoBaggins_105:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Phunky_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Phunky_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Picard_45 Start: 30958, Stop: 31479, Start Num: 107
Candidate Starts for Picard_45:
(Start: 107 @30958 has 4 MA's), (281, 31246), (319, 31336), (327, 31366), (352, 31432),

Gene: Piccadilly_44 Start: 30160, Stop: 30651, Start Num: 104
Candidate Starts for Piccadilly_44:
(Start: 104 @30160 has 12 MA's), (267, 30412), (271, 30427),

Gene: Pio_145 Start: 85169, Stop: 85585, Start Num: 172
Candidate Starts for Pio_145:
(26, 84692), (Start: 172 @85169 has 24 MA's), (202, 85226), (231, 85289), (256, 85358), (271, 85403), (286, 85442),

Gene: Pipefish_29 Start: 27509, Stop: 27015, Start Num: 91
Candidate Starts for Pipefish_29:
(Start: 91 @27509 has 1 MA's), (206, 27344), (227, 27311), (244, 27260),

Gene: Pipsqueak_10 Start: 8943, Stop: 9377, Start Num: 133

Candidate Starts for Pipsqueak_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Plmatters_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Plmatters_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Podrick_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Podrick_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Pollux_66 Start: 44701, Stop: 45162, Start Num: 144
Candidate Starts for Pollux_66:
(58, 44551), (59, 44554), (87, 44629), (89, 44632), (Start: 144 @44701 has 23 MA's), (154, 44707), (202, 44788), (241, 44884), (281, 45001),

Gene: Poochiewood_89 Start: 57939, Stop: 58349, Start Num: 133
Candidate Starts for Poochiewood_89:
(Start: 133 @57939 has 242 MA's), (155, 57969), (Start: 158 @57972 has 2 MA's), (185, 58017), (233, 58095), (248, 58137), (270, 58173), (289, 58215), (291, 58221), (310, 58269), (325, 58314), (340, 58341),

Gene: Pops_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Pops_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: PowerRanger_26 Start: 22001, Stop: 22438, Start Num: 127
Candidate Starts for PowerRanger_26:
(Start: 94 @21953 has 1 MA's), (Start: 127 @22001 has 1 MA's), (232, 22172), (233, 22175), (247, 22214),

Gene: Prickles_10 Start: 8949, Stop: 9383, Start Num: 133
Candidate Starts for Prickles_10:
(Start: 133 @8949 has 242 MA's), (164, 8988), (181, 9012), (223, 9093), (267, 9183), (292, 9246),

Gene: PrincessTrina_101 Start: 63821, Stop: 64315, Start Num: 144
Candidate Starts for PrincessTrina_101:
(Start: 80 @63713 has 1 MA's), (98, 63752), (Start: 144 @63821 has 23 MA's), (196, 63905), (230, 63977), (244, 64016), (346, 64286),

Gene: ProfessorX_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for ProfessorX_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Puhltonio_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Puhltonio_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Quby_96 Start: 59183, Stop: 59590, Start Num: 133
Candidate Starts for Quby_96:
(Start: 133 @59183 has 242 MA's), (233, 59336), (278, 59432), (300, 59486), (321, 59537), (331, 59564), (333, 59567), (340, 59582),

Gene: QueenBeane_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for QueenBeane_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Quisquiliae_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Quisquiliae_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: REQ3_10 Start: 4829, Stop: 5143, Start Num: 209
Candidate Starts for REQ3_10:
(Start: 139 @4724 has 3 MA's), (Start: 145 @4733 has 4 MA's), (209, 4829), (212, 4835), (244, 4904), (257, 4919),

Gene: Rabinovish_140 Start: 83892, Stop: 84308, Start Num: 172
Candidate Starts for Rabinovish_140:
(26, 83415), (Start: 172 @83892 has 24 MA's), (202, 83949), (231, 84012), (256, 84081), (271, 84126), (286, 84165),

Gene: Raleigh_43 Start: 33449, Stop: 33964, Start Num: 105
Candidate Starts for Raleigh_43:
(Start: 105 @33449 has 3 MA's), (143, 33488), (279, 33728), (281, 33734),

Gene: Red305_93 Start: 59235, Stop: 59642, Start Num: 133
Candidate Starts for Red305_93:
(Start: 133 @59235 has 242 MA's), (Start: 145 @59256 has 4 MA's), (232, 59385), (233, 59388), (270, 59466), (284, 59502), (321, 59589), (331, 59616),

Gene: RedRaider89_11 Start: 9175, Stop: 9609, Start Num: 133
Candidate Starts for RedRaider89_11:
(Start: 133 @9175 has 242 MA's), (164, 9214), (181, 9238), (223, 9319), (267, 9409), (292, 9472),

Gene: RedWattleHog_27 Start: 28545, Stop: 28156, Start Num: 169
Candidate Starts for RedWattleHog_27:
(Start: 94 @28650 has 1 MA's), (Start: 169 @28545 has 1 MA's), (233, 28443), (282, 28326), (338, 28179),

Gene: Riggan_10 Start: 8947, Stop: 9381, Start Num: 133
Candidate Starts for Riggan_10:
(Start: 133 @8947 has 242 MA's), (164, 8986), (181, 9010), (223, 9091), (267, 9181), (292, 9244),

Gene: Riverton_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Riverton_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Rofo_18 Start: 14497, Stop: 14928, Start Num: 158
Candidate Starts for Rofo_18:
(Start: 116 @14446 has 2 MA's), (Start: 124 @14458 has 5 MA's), (Start: 133 @14467 has 242 MA's), (Start: 158 @14497 has 2 MA's), (163, 14506), (257, 14677), (267, 14710), (281, 14752), (292, 14773), (309, 14818), (322, 14854),

Gene: Roliet_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Roliet_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: RomansRevenge_75 Start: 50908, Stop: 50471, Start Num: 136
Candidate Starts for RomansRevenge_75:
(82, 50992), (86, 50983), (Start: 136 @50908 has 4 MA's), (234, 50743), (250, 50698), (296, 50596), (302, 50578), (308, 50560),

Gene: Rooter_42 Start: 26895, Stop: 27386, Start Num: 109
Candidate Starts for Rooter_42:
(30, 26580), (65, 26814), (99, 26880), (Start: 109 @26895 has 3 MA's), (210, 27060), (230, 27096), (233, 27102), (291, 27237), (320, 27309), (350, 27375),

Gene: Roscoe_11 Start: 9178, Stop: 9612, Start Num: 133
Candidate Starts for Roscoe_11:
(Start: 133 @9178 has 242 MA's), (164, 9217), (181, 9241), (223, 9322), (267, 9412), (292, 9475),

Gene: Rose5_92 Start: 57809, Stop: 58219, Start Num: 133
Candidate Starts for Rose5_92:
(Start: 133 @57809 has 242 MA's), (155, 57839), (Start: 158 @57842 has 2 MA's), (185, 57887), (233, 57965), (248, 58007), (270, 58043), (289, 58085), (291, 58091), (310, 58139), (325, 58184), (340, 58211),

Gene: RosiePosie_100 Start: 63686, Stop: 64180, Start Num: 144
Candidate Starts for RosiePosie_100:
(Start: 80 @63578 has 1 MA's), (98, 63617), (Start: 144 @63686 has 23 MA's), (196, 63770), (230, 63842), (237, 63860), (244, 63881),

Gene: Rossetti_95 Start: 59618, Stop: 60031, Start Num: 133
Candidate Starts for Rossetti_95:
(Start: 133 @59618 has 242 MA's), (200, 59729), (229, 59768), (233, 59777), (270, 59855), (300, 59927), (331, 60005), (340, 60023),

Gene: Rumpelstiltskin_91 Start: 59092, Stop: 59505, Start Num: 133
Candidate Starts for Rumpelstiltskin_91:
(Start: 133 @59092 has 242 MA's), (200, 59203), (229, 59242), (233, 59251), (270, 59329), (300, 59401), (331, 59479), (340, 59497),

Gene: SDcharge11_10 Start: 8936, Stop: 9370, Start Num: 133
Candidate Starts for SDcharge11_10:
(Start: 133 @8936 has 242 MA's), (164, 8975), (181, 8999), (223, 9080), (267, 9170), (292, 9233),

Gene: SV1_42 Start: 29657, Stop: 30169, Start Num: 108
Candidate Starts for SV1_42:
(Start: 108 @29657 has 1 MA's), (261, 29882), (301, 29981), (315, 30020), (319, 30026), (327, 30056),

Gene: SVoro_139 Start: 83654, Stop: 84070, Start Num: 172
Candidate Starts for SVoro_139:
(26, 83177), (Start: 172 @83654 has 24 MA's), (202, 83711), (231, 83774), (256, 83843), (271, 83888), (286, 83927),

Gene: SadLad_28 Start: 14537, Stop: 14064, Start Num: 148
Candidate Starts for SadLad_28:
(4, 15395), (5, 15374), (6, 15371), (7, 15356), (8, 15353), (9, 15335), (10, 15299), (11, 15278), (12, 15239), (13, 15185), (15, 15182), (16, 15173), (17, 15155), (20, 15065), (23, 15011), (28, 14957), (32,

14912), (33, 14870), (34, 14864), (38, 14822), (40, 14816), (43, 14798), (44, 14792), (45, 14780), (48, 14759), (50, 14756), (60, 14705), (62, 14693), (68, 14681), (76, 14660), (93, 14621), (Start: 133 @14564 has 242 MA's), (Start: 148 @14537 has 1 MA's), (220, 14405), (230, 14387), (255, 14321), (267, 14282), (273, 14258), (278, 14249), (313, 14168),

Gene: Samaymay_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Samaymay_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Samty_91 Start: 59332, Stop: 59739, Start Num: 133
Candidate Starts for Samty_91:
(Start: 133 @59332 has 242 MA's), (Start: 145 @59353 has 4 MA's), (232, 59482), (233, 59485), (270, 59563), (284, 59599), (321, 59686), (331, 59713),

Gene: Sarge_39 Start: 25703, Stop: 26194, Start Num: 109
Candidate Starts for Sarge_39:
(30, 25388), (65, 25622), (99, 25688), (Start: 109 @25703 has 3 MA's), (210, 25868), (230, 25904), (233, 25910), (291, 26045), (320, 26117), (350, 26183),

Gene: Saronaya_49 Start: 42016, Stop: 42534, Start Num: 100
Candidate Starts for Saronaya_49:
(Start: 100 @42016 has 18 MA's), (123, 42046), (234, 42232), (273, 42322), (279, 42334), (353, 42529),

Gene: Sarshaun_96 Start: 60210, Stop: 60623, Start Num: 133
Candidate Starts for Sarshaun_96:
(Start: 133 @60210 has 242 MA's), (200, 60321), (229, 60360), (233, 60369), (270, 60447), (300, 60519), (331, 60597), (340, 60615),

Gene: Scavito_101 Start: 63679, Stop: 64173, Start Num: 144
Candidate Starts for Scavito_101:
(Start: 80 @63571 has 1 MA's), (98, 63610), (Start: 144 @63679 has 23 MA's), (196, 63763), (230, 63835), (244, 63874), (346, 64144),

Gene: Schlegelian_45 Start: 30710, Stop: 31201, Start Num: 104
Candidate Starts for Schlegelian_45:
(Start: 104 @30710 has 12 MA's), (267, 30962), (271, 30977),

Gene: ScoobyDoobyDoo_251 Start: 151338, Stop: 151754, Start Num: 156
Candidate Starts for ScoobyDoobyDoo_251:
(98, 151257), (Start: 156 @151338 has 2 MA's), (Start: 169 @151356 has 1 MA's), (188, 151383), (200, 151401), (208, 151422), (227, 151452), (243, 151500), (257, 151515), (282, 151581), (317, 151668),

Gene: Scoot17C_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for Scoot17C_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: Sedona_50 Start: 43310, Stop: 43828, Start Num: 100
Candidate Starts for Sedona_50:
(Start: 100 @43310 has 18 MA's), (123, 43340), (234, 43526), (273, 43616), (279, 43628),

Gene: Serendipity_10 Start: 8943, Stop: 9377, Start Num: 133

Candidate Starts for Serendipity_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Serpentine_0010 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Serpentine_0010:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: ShadowBud_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for ShadowBud_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Shaqnato_134 Start: 81274, Stop: 81690, Start Num: 172
Candidate Starts for Shaqnato_134:
(26, 80797), (Start: 172 @81274 has 24 MA's), (202, 81331), (231, 81394), (256, 81463), (271, 81508), (286, 81547),

Gene: Sheila_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Sheila_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Shelob_143 Start: 84076, Stop: 84492, Start Num: 172
Candidate Starts for Shelob_143:
(26, 83599), (Start: 172 @84076 has 24 MA's), (202, 84133), (231, 84196), (256, 84265), (271, 84310), (286, 84349),

Gene: Sheng711_97 Start: 59248, Stop: 59655, Start Num: 133
Candidate Starts for Sheng711_97:
(Start: 133 @59248 has 242 MA's), (Start: 145 @59269 has 4 MA's), (233, 59401), (278, 59497), (300, 59551), (321, 59602), (331, 59629), (333, 59632), (340, 59647),

Gene: ShiVal_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for ShiVal_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Shifa_130 Start: 81500, Stop: 81916, Start Num: 172
Candidate Starts for Shifa_130:
(26, 81023), (Start: 172 @81500 has 24 MA's), (202, 81557), (231, 81620), (256, 81689), (271, 81734), (286, 81773),

Gene: Shivanishola_50 Start: 42031, Stop: 42549, Start Num: 100
Candidate Starts for Shivanishola_50:
(81, 42019), (Start: 84 @42028 has 5 MA's), (Start: 100 @42031 has 18 MA's), (234, 42247), (273, 42337), (279, 42349),

Gene: Shoya_45 Start: 27671, Stop: 28162, Start Num: 109
Candidate Starts for Shoya_45:
(65, 27590), (99, 27656), (Start: 109 @27671 has 3 MA's), (210, 27836), (230, 27872), (233, 27878), (291, 28013), (320, 28085), (350, 28151),

Gene: Shuckle_221 Start: 113504, Stop: 113944, Start Num: 159
Candidate Starts for Shuckle_221:
(57, 113309), (67, 113345), (Start: 100 @113417 has 18 MA's), (103, 113423), (Start: 110 @113432 has 1 MA's), (Start: 133 @113462 has 242 MA's), (Start: 135 @113468 has 7 MA's), (Start: 136

@113471 has 4 MA's), (Start: 139 @113477 has 3 MA's), (Start: 159 @113504 has 12 MA's), (209, 113600), (235, 113651), (276, 113744), (303, 113816), (326, 113870), (343, 113903),

Gene: Sigman_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Sigman_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: SilverChicken_59 Start: 36550, Stop: 36966, Start Num: 186
Candidate Starts for SilverChicken_59:
(90, 36415), (Start: 92 @36418 has 4 MA's), (153, 36508), (186, 36550), (215, 36610), (243, 36676), (269, 36718), (285, 36766),

Gene: Silverleaf_90 Start: 57305, Stop: 57715, Start Num: 133
Candidate Starts for Silverleaf_90:
(Start: 133 @57305 has 242 MA's), (155, 57335), (Start: 158 @57338 has 2 MA's), (185, 57383), (233, 57461), (248, 57503), (270, 57539), (289, 57581), (291, 57587), (310, 57635), (325, 57680), (340, 57707),

Gene: Sitar_50 Start: 43707, Stop: 44228, Start Num: 84
Candidate Starts for Sitar_50:
(81, 43698), (Start: 84 @43707 has 5 MA's), (Start: 100 @43710 has 18 MA's), (234, 43926), (273, 44016), (279, 44028),

Gene: Sitar_20 Start: 15655, Stop: 16110, Start Num: 124
Candidate Starts for Sitar_20:
(Start: 116 @15643 has 2 MA's), (Start: 124 @15655 has 5 MA's), (Start: 133 @15664 has 242 MA's), (Start: 158 @15694 has 2 MA's), (163, 15703), (257, 15874), (267, 15907), (281, 15949), (292, 15970), (309, 16015), (322, 16051),

Gene: Skippy_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Skippy_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Slatt_10 Start: 8945, Stop: 9379, Start Num: 133
Candidate Starts for Slatt_10:
(Start: 133 @8945 has 242 MA's), (164, 8984), (181, 9008), (223, 9089), (267, 9179), (292, 9242),

Gene: Snenia_91 Start: 59236, Stop: 59643, Start Num: 133
Candidate Starts for Snenia_91:
(Start: 133 @59236 has 242 MA's), (Start: 145 @59257 has 4 MA's), (232, 59386), (233, 59389), (270, 59467), (284, 59503), (321, 59590), (331, 59617),

Gene: SoJo_43 Start: 31466, Stop: 31978, Start Num: 107
Candidate Starts for SoJo_43:
(Start: 107 @31466 has 4 MA's), (153, 31523), (303, 31799), (327, 31868),

Gene: SoJulia_97 Start: 60975, Stop: 61388, Start Num: 133
Candidate Starts for SoJulia_97:
(Start: 133 @60975 has 242 MA's), (200, 61086), (229, 61125), (233, 61134), (270, 61212), (300, 61284), (331, 61362), (340, 61380),

Gene: Soap141_95 Start: 60210, Stop: 60623, Start Num: 133
Candidate Starts for Soap141_95:

(Start: 133 @60210 has 242 MA's), (200, 60321), (229, 60360), (233, 60369), (270, 60447), (300, 60519), (331, 60597), (340, 60615),

Gene: SoilZilla_137 Start: 82567, Stop: 82983, Start Num: 172
Candidate Starts for SoilZilla_137:
(26, 82090), (Start: 172 @82567 has 24 MA's), (202, 82624), (231, 82687), (256, 82756), (271, 82801), (286, 82840),

Gene: SophKB_98 Start: 59438, Stop: 59899, Start Num: 135
Candidate Starts for SophKB_98:
(Start: 135 @59438 has 7 MA's), (Start: 159 @59474 has 12 MA's), (222, 59594), (244, 59651), (267, 59690), (269, 59696),

Gene: Soto_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Soto_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Spartan300_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Spartan300_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: SpeedDemon_100 Start: 4893, Stop: 5351, Start Num: 109
Candidate Starts for SpeedDemon_100:
(Start: 109 @4893 has 3 MA's), (213, 5040), (223, 5055), (230, 5070), (243, 5109), (269, 5151), (285, 5199), (341, 5319),

Gene: Stellammi_108 Start: 53452, Stop: 53925, Start Num: 117
Candidate Starts for Stellammi_108:
(43, 53239), (45, 53257), (Start: 117 @53452 has 1 MA's), (142, 53491), (185, 53554), (194, 53572), (227, 53632), (269, 53722), (281, 53758), (313, 53836), (335, 53890), (348, 53920),

Gene: Sting_3 Start: 2872, Stop: 3252, Start Num: 131
Candidate Starts for Sting_3:
(Start: 131 @2872 has 2 MA's), (190, 2956), (207, 2989), (227, 3016), (232, 3028), (233, 3031), (257, 3079), (281, 3142), (295, 3178), (327, 3232), (332, 3241),

Gene: Suffolk_10 Start: 8942, Stop: 9376, Start Num: 133
Candidate Starts for Suffolk_10:
(Start: 133 @8942 has 242 MA's), (164, 8981), (181, 9005), (223, 9086), (267, 9176), (292, 9239),

Gene: Superphikiman_163 Start: 84350, Stop: 84877, Start Num: 110
Candidate Starts for Superphikiman_163:
(Start: 83 @84308 has 2 MA's), (Start: 110 @84350 has 1 MA's), (Start: 121 @84365 has 5 MA's), (245, 84587), (273, 84644), (282, 84665),

Gene: Surely_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Surely_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Sushi23_223 Start: 114010, Stop: 114450, Start Num: 159
Candidate Starts for Sushi23_223:
(57, 113815), (67, 113851), (Start: 100 @113923 has 18 MA's), (103, 113929), (Start: 110 @113938 has 1 MA's), (Start: 133 @113968 has 242 MA's), (Start: 135 @113974 has 7 MA's), (Start: 136

@113977 has 4 MA's), (Start: 139 @113983 has 3 MA's), (Start: 159 @114010 has 12 MA's), (209, 114106), (235, 114157), (276, 114250), (303, 114322), (326, 114376), (343, 114409),

Gene: Swiphy_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Swiphy_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Swish_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for Swish_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: Tangent_16 Start: 13468, Stop: 13914, Start Num: 133
Candidate Starts for Tangent_16:
(Start: 116 @13447 has 2 MA's), (Start: 124 @13459 has 5 MA's), (Start: 133 @13468 has 242 MA's), (Start: 158 @13498 has 2 MA's), (163, 13507), (257, 13678), (267, 13711), (281, 13753), (292, 13774), (309, 13819), (322, 13855),

Gene: Targaryen_222 Start: 114182, Stop: 114622, Start Num: 159
Candidate Starts for Targaryen_222:
(Start: 100 @114095 has 18 MA's), (103, 114101), (Start: 110 @114110 has 1 MA's), (Start: 133 @114140 has 242 MA's), (Start: 135 @114146 has 7 MA's), (Start: 159 @114182 has 12 MA's), (209, 114278), (235, 114329), (276, 114422), (303, 114494), (326, 114548), (343, 114581),

Gene: Target_12 Start: 7244, Stop: 7699, Start Num: 124
Candidate Starts for Target_12:
(Start: 124 @7244 has 5 MA's), (146, 7277), (201, 7364), (229, 7424), (243, 7466), (281, 7544), (284, 7553), (317, 7634), (334, 7673),

Gene: Teardrop_140 Start: 81782, Stop: 82198, Start Num: 172
Candidate Starts for Teardrop_140:
(26, 81305), (Start: 172 @81782 has 24 MA's), (202, 81839), (231, 81902), (256, 81971), (271, 82016), (286, 82055),

Gene: TheloniousMonk_12 Start: 7471, Stop: 7926, Start Num: 124
Candidate Starts for TheloniousMonk_12:
(Start: 124 @7471 has 5 MA's), (146, 7504), (201, 7591), (229, 7651), (243, 7693), (281, 7771), (284, 7780), (317, 7861), (334, 7900),

Gene: Thing3_49 Start: 42108, Stop: 42626, Start Num: 100
Candidate Starts for Thing3_49:
(Start: 100 @42108 has 18 MA's), (234, 42324), (273, 42414), (279, 42426),

Gene: Thora_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Thora_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: ThreeOh3D2_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for ThreeOh3D2_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: ToastyFinz_42 Start: 32290, Stop: 32811, Start Num: 105
Candidate Starts for ToastyFinz_42:

(46, 32113), (74, 32227), (Start: 105 @32290 has 3 MA's), (180, 32383), (281, 32578), (303, 32629), (319, 32668), (327, 32698),

Gene: TomBombadil_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for TomBombadil_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Tomlarah_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Tomlarah_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: TooFast2Furius_11 Start: 9178, Stop: 9612, Start Num: 133
Candidate Starts for TooFast2Furius_11:
(Start: 133 @9178 has 242 MA's), (164, 9217), (181, 9241), (223, 9322), (267, 9412), (292, 9475),

Gene: Tooj_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Tooj_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Tophat_101 Start: 63868, Stop: 64362, Start Num: 144
Candidate Starts for Tophat_101:
(Start: 80 @63760 has 1 MA's), (98, 63799), (Start: 144 @63868 has 23 MA's), (196, 63952), (230, 64024), (244, 64063), (346, 64333),

Gene: Tourach_95 Start: 60189, Stop: 60602, Start Num: 133
Candidate Starts for Tourach_95:
(Start: 133 @60189 has 242 MA's), (185, 60270), (200, 60300), (232, 60345), (233, 60348), (278, 60444), (300, 60498), (331, 60576), (340, 60594),

Gene: TriFive_93 Start: 59348, Stop: 59755, Start Num: 133
Candidate Starts for TriFive_93:
(Start: 133 @59348 has 242 MA's), (Start: 145 @59369 has 4 MA's), (232, 59498), (233, 59501), (270, 59579), (284, 59615), (321, 59702), (331, 59729),

Gene: Trypo_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Trypo_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Tubberson_43 Start: 31467, Stop: 31979, Start Num: 107
Candidate Starts for Tubberson_43:
(Start: 107 @31467 has 4 MA's), (153, 31524), (303, 31800), (327, 31869),

Gene: Tyson_92 Start: 57702, Stop: 58112, Start Num: 133
Candidate Starts for Tyson_92:
(Start: 133 @57702 has 242 MA's), (155, 57732), (Start: 158 @57735 has 2 MA's), (185, 57780), (233, 57858), (248, 57900), (270, 57936), (289, 57978), (291, 57984), (310, 58032), (325, 58077), (340, 58104),

Gene: UAch1_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for UAch1_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: UPIE_90 Start: 57298, Stop: 57708, Start Num: 133

Candidate Starts for UPIE_90:
(Start: 133 @57298 has 242 MA's), (155, 57328), (Start: 158 @57331 has 2 MA's), (185, 57376), (233, 57454), (248, 57496), (270, 57532), (289, 57574), (291, 57580), (310, 57628), (325, 57673), (340, 57700),

Gene: Underpass_87 Start: 54335, Stop: 54748, Start Num: 133
Candidate Starts for Underpass_87:
(Start: 133 @54335 has 242 MA's), (200, 54446), (229, 54485), (233, 54494), (270, 54572), (300, 54644), (331, 54722), (340, 54740),

Gene: Usavi_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Usavi_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: Valjean_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Valjean_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Vetrix_93 Start: 59073, Stop: 59486, Start Num: 133
Candidate Starts for Vetrix_93:
(Start: 133 @59073 has 242 MA's), (200, 59184), (229, 59223), (233, 59232), (270, 59310), (300, 59382), (331, 59460), (340, 59478),

Gene: Virapocalypse_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Virapocalypse_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Vista_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Vista_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: Vivaldi_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Vivaldi_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: Vivi2_18 Start: 14618, Stop: 15085, Start Num: 116
Candidate Starts for Vivi2_18:
(Start: 116 @14618 has 2 MA's), (Start: 124 @14630 has 5 MA's), (Start: 133 @14639 has 242 MA's), (Start: 158 @14669 has 2 MA's), (163, 14678), (257, 14849), (267, 14882), (281, 14924), (292, 14945), (309, 14990), (322, 15026),

Gene: Vivi2_54 Start: 43935, Stop: 44456, Start Num: 84
Candidate Starts for Vivi2_54:
(81, 43926), (Start: 84 @43935 has 5 MA's), (Start: 100 @43938 has 18 MA's), (234, 44154), (273, 44244), (279, 44256),

Gene: Vondra_43 Start: 30012, Stop: 30503, Start Num: 104
Candidate Starts for Vondra_43:
(Start: 104 @30012 has 12 MA's), (267, 30264), (271, 30279),

Gene: Wamburgrxpress_90 Start: 57426, Stop: 57836, Start Num: 133
Candidate Starts for Wamburgrxpress_90:

(Start: 133 @57426 has 242 MA's), (155, 57456), (Start: 158 @57459 has 2 MA's), (185, 57504), (233, 57582), (248, 57624), (270, 57660), (289, 57702), (291, 57708), (310, 57756), (325, 57801), (340, 57828),

Gene: Waterdiva_10 Start: 8944, Stop: 9378, Start Num: 133
Candidate Starts for Waterdiva_10:
(Start: 133 @8944 has 242 MA's), (164, 8983), (181, 9007), (223, 9088), (267, 9178), (292, 9241),

Gene: Weher20_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for Weher20_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: WhereRU_161 Start: 91595, Stop: 92011, Start Num: 152
Candidate Starts for WhereRU_161:
(Start: 148 @91589 has 1 MA's), (Start: 152 @91595 has 1 MA's), (Start: 175 @91625 has 1 MA's), (210, 91694), (257, 91781), (282, 91847),

Gene: Whirlwind_93 Start: 59575, Stop: 59982, Start Num: 133
Candidate Starts for Whirlwind_93:
(Start: 133 @59575 has 242 MA's), (Start: 145 @59596 has 4 MA's), (232, 59725), (233, 59728), (270, 59806), (284, 59842), (321, 59929), (331, 59956),

Gene: Wigglewiggle_95 Start: 59375, Stop: 59788, Start Num: 133
Candidate Starts for Wigglewiggle_95:
(Start: 133 @59375 has 242 MA's), (200, 59486), (232, 59531), (233, 59534), (278, 59630), (300, 59684), (331, 59762), (340, 59780),

Gene: Wilder_96 Start: 59217, Stop: 59630, Start Num: 133
Candidate Starts for Wilder_96:
(Start: 133 @59217 has 242 MA's), (200, 59328), (229, 59367), (233, 59376), (270, 59454), (300, 59526), (331, 59604), (340, 59622),

Gene: WillSterrel_87 Start: 51270, Stop: 51782, Start Num: 114
Candidate Starts for WillSterrel_87:
(Start: 112 @51267 has 1 MA's), (Start: 114 @51270 has 1 MA's), (Start: 159 @51330 has 12 MA's), (244, 51507), (272, 51567), (309, 51654), (332, 51720), (345, 51753),

Gene: Winky_95 Start: 59815, Stop: 60228, Start Num: 133
Candidate Starts for Winky_95:
(Start: 133 @59815 has 242 MA's), (200, 59926), (232, 59971), (233, 59974), (278, 60070), (300, 60124), (331, 60202), (340, 60220),

Gene: Wyatt2_92 Start: 57733, Stop: 58143, Start Num: 133
Candidate Starts for Wyatt2_92:
(Start: 133 @57733 has 242 MA's), (155, 57763), (Start: 158 @57766 has 2 MA's), (185, 57811), (233, 57889), (248, 57931), (270, 57967), (289, 58009), (291, 58015), (310, 58063), (325, 58108), (340, 58135),

Gene: YorkOnyx_50 Start: 42214, Stop: 42732, Start Num: 100
Candidate Starts for YorkOnyx_50:
(Start: 100 @42214 has 18 MA's), (123, 42244), (234, 42430), (273, 42520), (279, 42532),

Gene: YorkOnyx_19 Start: 14161, Stop: 14622, Start Num: 133

Candidate Starts for YorkOnyx_19:
(Start: 116 @14140 has 2 MA's), (Start: 124 @14152 has 5 MA's), (Start: 133 @14161 has 242 MA's), (Start: 158 @14191 has 2 MA's), (193, 14242), (257, 14371), (281, 14446), (292, 14467), (309, 14512),

Gene: Yoshand_10 Start: 8941, Stop: 9375, Start Num: 133
Candidate Starts for Yoshand_10:
(Start: 133 @8941 has 242 MA's), (164, 8980), (181, 9004), (223, 9085), (267, 9175), (292, 9238),

Gene: YouGoGlencoco_10 Start: 8940, Stop: 9374, Start Num: 133
Candidate Starts for YouGoGlencoco_10:
(Start: 133 @8940 has 242 MA's), (164, 8979), (181, 9003), (223, 9084), (267, 9174), (292, 9237),

Gene: YoungHarleezy_70 Start: 37357, Stop: 37845, Start Num: 136
Candidate Starts for YoungHarleezy_70:
(Start: 136 @37357 has 4 MA's), (141, 37363), (Start: 167 @37393 has 3 MA's), (336, 37789),

Gene: Yvonnetastic_131 Start: 74014, Stop: 74502, Start Num: 128
Candidate Starts for Yvonnetastic_131:
(Start: 128 @74014 has 2 MA's), (Start: 159 @74062 has 12 MA's), (174, 74080), (223, 74179), (278, 74311), (298, 74356),

Gene: Zaider_11 Start: 9173, Stop: 9607, Start Num: 133
Candidate Starts for Zaider_11:
(Start: 133 @9173 has 242 MA's), (164, 9212), (181, 9236), (223, 9317), (267, 9407), (292, 9470),

Gene: Zakai_96 Start: 59860, Stop: 60273, Start Num: 133
Candidate Starts for Zakai_96:
(Start: 133 @59860 has 242 MA's), (200, 59971), (229, 60010), (233, 60019), (270, 60097), (300, 60169), (331, 60247), (340, 60265),

Gene: Zaria_91 Start: 56841, Stop: 57251, Start Num: 133
Candidate Starts for Zaria_91:
(Start: 133 @56841 has 242 MA's), (155, 56871), (Start: 158 @56874 has 2 MA's), (185, 56919), (233, 56997), (248, 57039), (270, 57075), (289, 57117), (291, 57123), (310, 57171), (325, 57216), (340, 57243),

Gene: Zelda_10 Start: 8943, Stop: 9377, Start Num: 133
Candidate Starts for Zelda_10:
(Start: 133 @8943 has 242 MA's), (164, 8982), (181, 9006), (223, 9087), (267, 9177), (292, 9240),

Gene: ZhongYanYuan_92 Start: 59271, Stop: 59684, Start Num: 133
Candidate Starts for ZhongYanYuan_92:
(Start: 133 @59271 has 242 MA's), (200, 59382), (229, 59421), (233, 59430), (270, 59508), (300, 59580), (331, 59658), (340, 59676),

Gene: Zonia_10 Start: 8957, Stop: 9391, Start Num: 133
Candidate Starts for Zonia_10:
(Start: 133 @8957 has 242 MA's), (164, 8996), (181, 9020), (223, 9101), (267, 9191), (292, 9254),