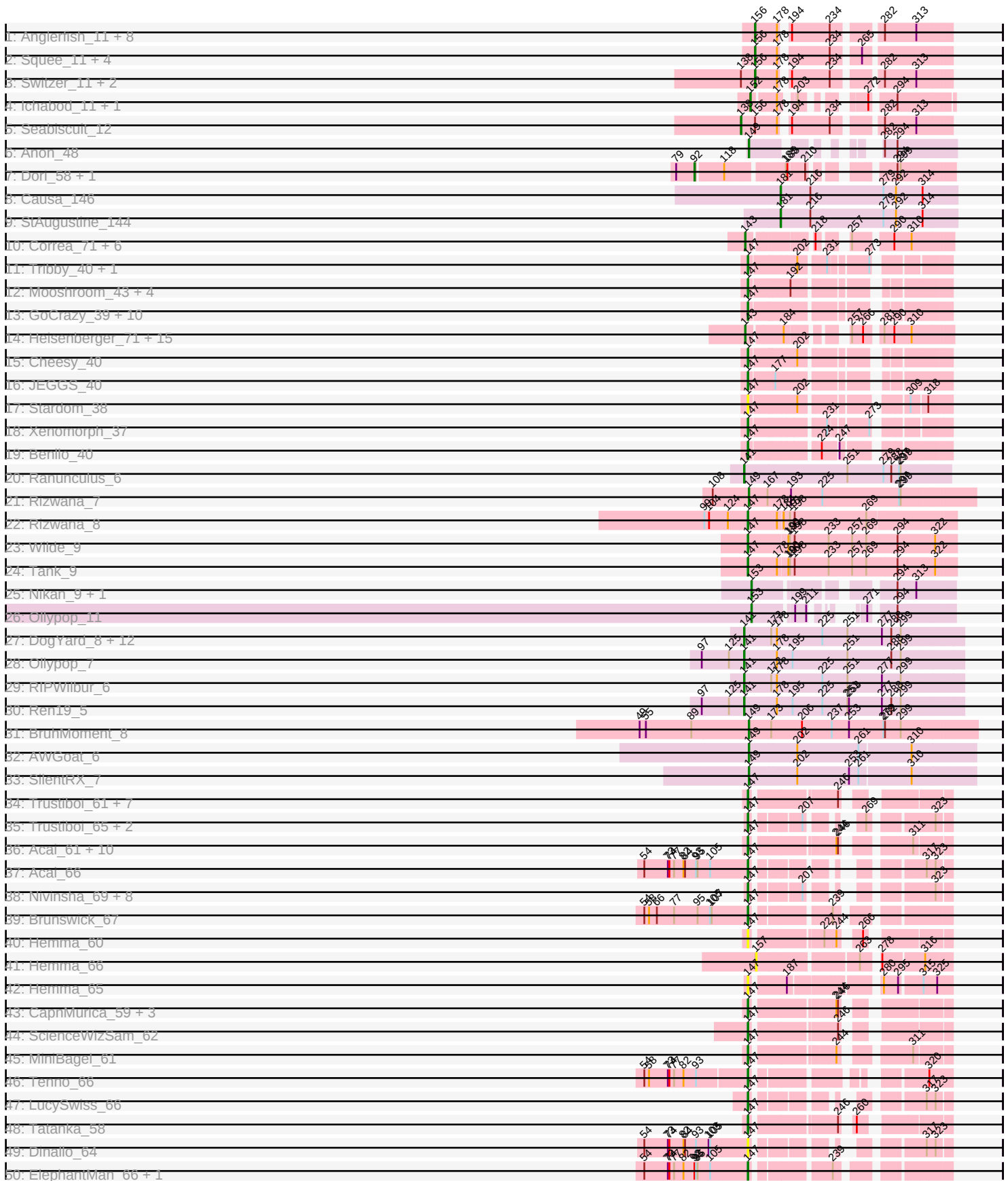
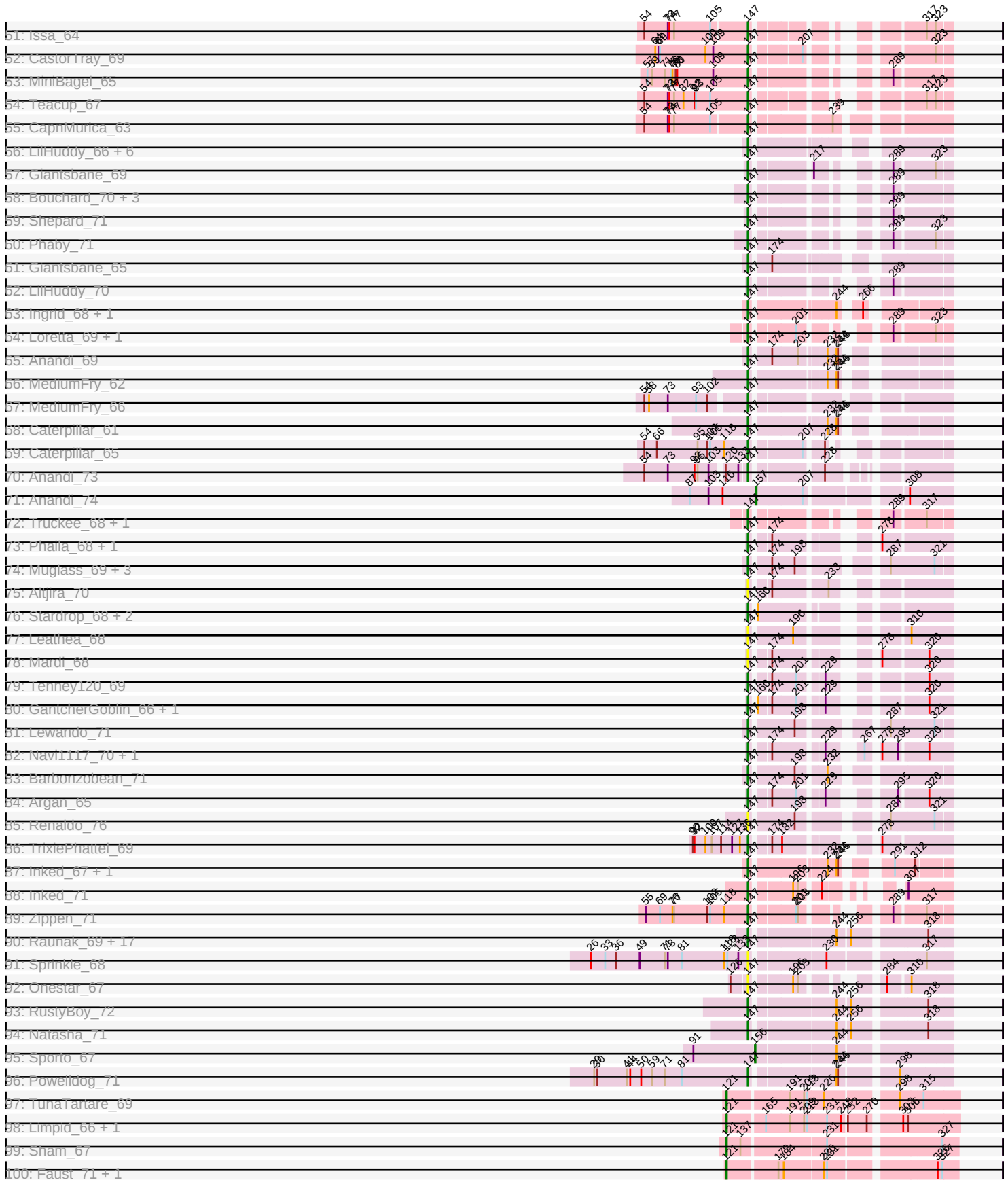
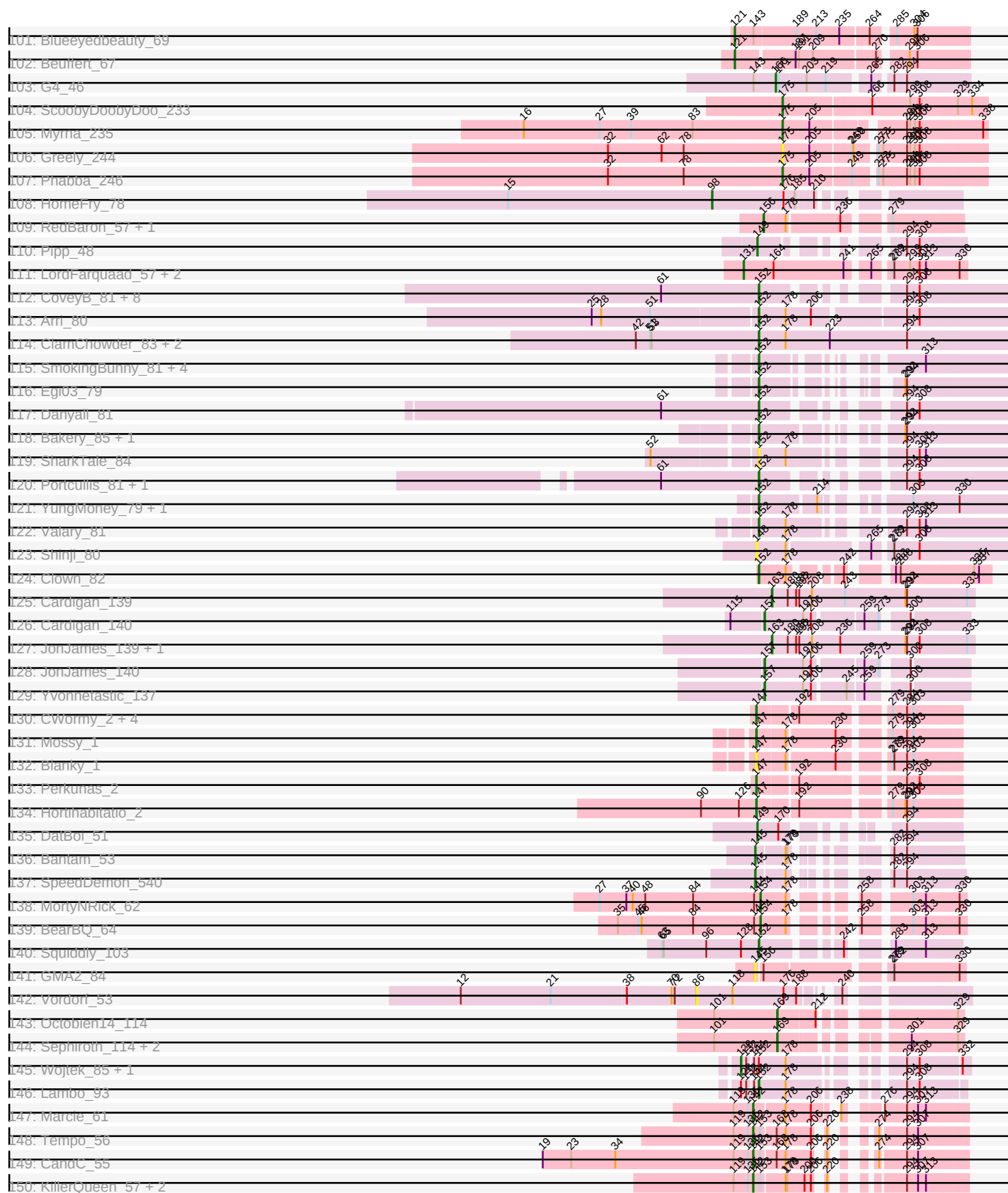
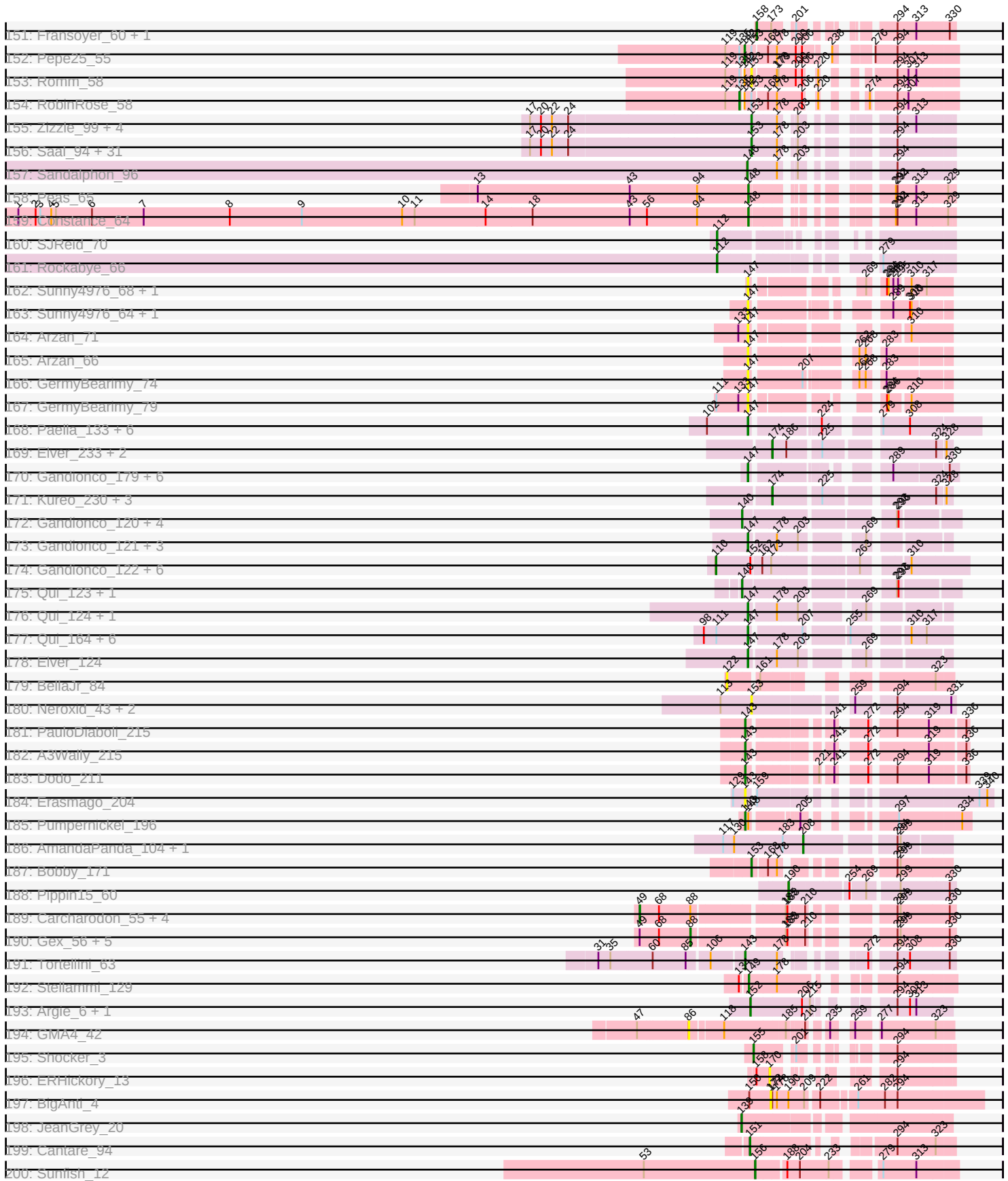






Pham 330336





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 330336 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330336 has 455 members, 81 are drafts.

Phages represented in each track:

- Track 1 : Anglerfish_11, Dynamix_11, Arcanine_11, Rajelicia_10, PinkPlastic_9, DreamCatcher_12, McGuire_11, Slagathor_11, Manatee_11
- Track 2 : Squee_11, BeesKnees_11, Naira_11, Atkinbua_11, Fenn_11
- Track 3 : Switzer_11, KSSJEB_10, U2_10
- Track 4 : Ichabod_11, Briton15_12
- Track 5 : Seabiscuit_12
- Track 6 : Anon_48
- Track 7 : Dori_58, Mask_58
- Track 8 : Causa_146
- Track 9 : StAugustine_144
- Track 10 : Correa_71, Xenomorph_69, Arcadia_72, Cheesy_73, Nason_72, Elsa_72, Tribby_76
- Track 11 : Tribby_40, Correa_38
- Track 12 : Mooshroom_43, BenitoAntonio_41, Dynamite_40, Kardesai_42, NapoleonB_40
- Track 13 : GoCrazy_39, KeaneyLin_39, Mudcat_38, Circum_42, Bowling_40, Elsa_41, Nason_41, YoshiYama_40, Hankly_40, Heisenberger_40, Arcadia_41
- Track 14 : Heisenberger_71, Mooshroom_73, Hankly_72, GoCrazy_69, Bowling_74, JEGGS_71, Circum_74, Kardesai_72, YoshiYama_74, NapoleonB_73, BenitoAntonio_71, Benllo_70, Dynamite_72, Mudcat_68, Stardom_72, KeaneyLin_68
- Track 15 : Cheesy_40
- Track 16 : JEGGS_40
- Track 17 : Stardom_38
- Track 18 : Xenomorph_37
- Track 19 : Benllo_40
- Track 20 : Ranunculus_6
- Track 21 : Rizwana_7
- Track 22 : Rizwana_8
- Track 23 : Wilde_9
- Track 24 : Tank_9
- Track 25 : Nikan_9, Ren19_9
- Track 26 : Ollypop_11
- Track 27 : DogYard_8, Forrestell_8, Pureglobe5_10, RazzB_7, MellowYellow_8, Pointis_8, Odyssey395_10, Beagle_10, PhuzzTulsa_6, NyleyClemson_7, Kubulix_9, BetaFish_8, Popstraw_8
- Track 28 : Ollypop_7
- Track 29 : RIPWilbur_6

- Track 30 : Ren19_5
- Track 31 : BruhMoment_8
- Track 32 : AWGoat_6
- Track 33 : SilentRX_7
- Track 34 : Trustiboi_61, Nivinsha_63, AreFloNak_64, Breylor17_61, Darby_60, Synepsis_60, CastorTray_65, DevitoJr_61
- Track 35 : Trustiboi_65, Westerlin_65, Darby_64
- Track 36 : Acai_61, Gordon_59, Truckee_63, Brunswick_62, Westerlin_61, Nightmare_63, Niktson_61, ElephantMan_61, LucySwiss_61, Makai_65, Teacup_62
- Track 37 : Acai_66
- Track 38 : Nivinsha_69, AreFloNak_69, Breylor17_65, Nightmare_67, ScienceWizSam_67, Synepsis_64, Gordon_63, Tatanka_61, DevitoJr_65
- Track 39 : Brunswick_67
- Track 40 : Hemma_60
- Track 41 : Hemma_66
- Track 42 : Hemma_65
- Track 43 : CapnMurica_59, Tenno_62, Dinallo_60, Issa_60
- Track 44 : ScienceWizSam_62
- Track 45 : MiniBagel_61
- Track 46 : Tenno_66
- Track 47 : LucySwiss_66
- Track 48 : Tatanka_58
- Track 49 : Dinallo_64
- Track 50 : ElephantMan_66, Niktson_66
- Track 51 : Issa_64
- Track 52 : CastorTray_69
- Track 53 : MiniBagel_65
- Track 54 : Teacup_67
- Track 55 : CapnMurica_63
- Track 56 : LilHuddy_66, Chlochlo_65, Bouchard_65, Shepard_67, Phaby_67, Tipton_66, Tokki_70
- Track 57 : Giantsbane_69
- Track 58 : Bouchard_70, Chlochlo_70, Tokki_75, Tipton_71
- Track 59 : Shepard_71
- Track 60 : Phaby_71
- Track 61 : Giantsbane_65
- Track 62 : LilHuddy_70
- Track 63 : Ingrid_68, Loretta_65
- Track 64 : Loretta_69, Ingrid_72
- Track 65 : Anandi_69
- Track 66 : MediumFry_62
- Track 67 : MediumFry_66
- Track 68 : Caterpillar_61
- Track 69 : Caterpillar_65
- Track 70 : Anandi_73
- Track 71 : Anandi_74
- Track 72 : Truckee_68, Makai_70
- Track 73 : Phaila_68, Zeina_70
- Track 74 : Muglass_69, BarbieDoll_72, Biscute_68, Kinny_71
- Track 75 : Altjira_70
- Track 76 : Stardrop_68, BlackHoleSun_70, PoeMe_68
- Track 77 : Leathea_68
- Track 78 : Mardi_68

- Track 79 : Tenney120_69
- Track 80 : GantcherGoblin_66, Uzumaki_65
- Track 81 : Lewando_71
- Track 82 : Navi1117_70, KevinMinion_66
- Track 83 : Barbonzobean_71
- Track 84 : Argan_65
- Track 85 : Renaldo_76
- Track 86 : TrixiePhattel_69
- Track 87 : Inked_67, Zippen_67
- Track 88 : Inked_71
- Track 89 : Zippen_71
- Track 90 : Raunak_69, Boog_67, HerbBucket_66, Djungelskog_67, ProfFrink_68, Sloopyjoe_68, Egad_68, BronxBay_68, Shiba_67, MrAaronian_68, Jeremy4pt0_67, Michelle_68, Stayer_68, StarLord_68, Salk_68, Spain_68, DoctorPepper_67, Linda_68
- Track 91 : Sprinkle_68
- Track 92 : Onestar_67
- Track 93 : RustyBoy_72
- Track 94 : Natasha_71
- Track 95 : Sporto_67
- Track 96 : PowellDog_71
- Track 97 : TunaTartare_69
- Track 98 : Limpid_66, Annadreamy_67
- Track 99 : Sham_67
- Track 100 : Faust_71, SeresaTree_71
- Track 101 : Blueeyedbeauty_69
- Track 102 : Beuffert_67
- Track 103 : G4_46
- Track 104 : ScoobyDoobyDoo_233
- Track 105 : Myrna_235
- Track 106 : Greely_244
- Track 107 : Phabba_246
- Track 108 : HomeFry_78
- Track 109 : RedBaron_57, Nina_52
- Track 110 : Pipp_48
- Track 111 : LordFarquaad_57, SoilAssassin_55, Attis_55
- Track 112 : CoveyB_81, Gezellig_77, CherryCola_80, RogerDodger_84, KimmyK_80, PullumCavea_79, Wizard_77, Phlop_78, Halo3_78
- Track 113 : Arri_80
- Track 114 : ClamChowder_83, Fugax_84, Barb_83
- Track 115 : SmokingBunny_81, Salvador_80, Evamon_80, Togo_80, Twister6_81
- Track 116 : Egi03_79
- Track 117 : Danyall_81
- Track 118 : Bakery_85, Sixsevenium_82
- Track 119 : SharkTale_84
- Track 120 : Portcullis_81, JohnPork_82
- Track 121 : YungMoney_79, Mutzi_78
- Track 122 : Valary_81
- Track 123 : Shinji_80
- Track 124 : Clown_82
- Track 125 : Cardigan_139
- Track 126 : Cardigan_140
- Track 127 : JonJames_139, Yvonnetastic_136

- Track 128 : JonJames_140
- Track 129 : YvonneTastic_137
- Track 130 : CWormy_2, ArtetaBall_2, Dialga_2, Untouchable_2, Crocheter_2
- Track 131 : Mossy_1
- Track 132 : Blanky_1
- Track 133 : Perkunas_2
- Track 134 : HortiHabitatio_2
- Track 135 : DatBoi_51
- Track 136 : Bantam_53
- Track 137 : SpeedDemon_540
- Track 138 : MortyNRick_62
- Track 139 : BearBQ_64
- Track 140 : Squiddly_103
- Track 141 : GMA2_84
- Track 142 : Vordorf_53
- Track 143 : Octobien14_114
- Track 144 : Sephiroth_114, Kudefre_118, Syleon_119
- Track 145 : Wojtek_85, ParvusTarda_93
- Track 146 : Lambo_93
- Track 147 : Marcie_61
- Track 148 : Tempo_56
- Track 149 : CandC_55
- Track 150 : KillerQueen_57, Kelcole_54, OneinaGillian_56
- Track 151 : Fransoyer_60, SadLad_63
- Track 152 : Pepe25_55
- Track 153 : Romm_58
- Track 154 : RobinRose_58
- Track 155 : Zizzle_99, Jennelsea_94, BobaPhett_98, ShiLan_99, Mattes_97
- Track 156 : Saal_94, Clifton_88, Nivrat_96, Philus_98, Burwell21_90, Whouxphf_100, Lizziana_97, NormanBulbieJr_94, Latretium_99, Brocalys_88, Yorick_92, Spoonbill_96, FreddyB_106, Maravista_93, Martik_95, LastJedi_87, Crumble_91, Pippy_94, LilMoolah_99, Cabrinians_93, Vivum_96, Minnie_91, James_100, OlympiaSaint_100, Blexus_93, SwagPigglett_98, Priscilla_97, ShowerHandel_97, Gorge_95, ByChance_87, Jarcob_99, Koella_89
- Track 157 : Sandalphon_96
- Track 158 : Peas_65
- Track 159 : Constance_64
- Track 160 : SJReid_70
- Track 161 : Rockabye_66
- Track 162 : Sunny4976_68, Jazzy4900_69
- Track 163 : Sunny4976_64, Jazzy4900_65
- Track 164 : Arzan_71
- Track 165 : Arzan_66
- Track 166 : GermyBearimy_74
- Track 167 : GermyBearimy_79
- Track 168 : Paella_133, Gandionco_129, JeNeSaisPas_130, Marianna39_130, Elver_133, Qui_133, Kureo_130
- Track 169 : Elver_233, Gandionco_233, Marianna39_233
- Track 170 : Gandionco_179, Kureo_178, Marianna39_178, Elver_180, Paella_181, Qui_181, JeNeSaisPas_182
- Track 171 : Kureo_230, Qui_234, JeNeSaisPas_235, Paella_235
- Track 172 : Gandionco_120, Marianna39_121, JeNeSaisPas_120, Elver_123, Kureo_121

- Track 173 : Gandionco_121, Marianna39_122, JeNeSaisPas_121, Kureo_122
- Track 174 : Gandionco_122, Qui_125, Marianna39_123, Paella_125, JeNeSaisPas_122, Elver_125, Kureo_123
- Track 175 : Qui_123, Paella_123
- Track 176 : Qui_124, Paella_124
- Track 177 : Qui_164, Marianna39_160, JeNeSaisPas_164, Gandionco_160, Elver_164, Paella_164, Kureo_159
- Track 178 : Elver_124
- Track 179 : BellaJr_84
- Track 180 : Neroxid_43, Skyerus_38, Raya_43
- Track 181 : PauloDiaboli_215
- Track 182 : A3Wally_215
- Track 183 : Dodo_211
- Track 184 : Erasmago_204
- Track 185 : Pumpernickel_196
- Track 186 : AmandaPanda_104, DrLupo_104
- Track 187 : Bobby_171
- Track 188 : Pippin15_60
- Track 189 : Carcharodon_55, Schnauzer_56, Phloss_53, Parmesanjohn_55, Smurph_55
- Track 190 : Gex_56, EGUnicorn_51, Magsby_55, Xerxes_55, Pipsqueaks_56, Tessdabest_55
- Track 191 : Tortellini_63
- Track 192 : Stellammi_129
- Track 193 : Argie_6, GodPhather_6
- Track 194 : GMA4_42
- Track 195 : Shocker_3
- Track 196 : ERHickory_13
- Track 197 : BigAnti_4
- Track 198 : JeanGrey_20
- Track 199 : Cantare_94
- Track 200 : Sunfish_12

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

The start number called the most often in the published annotations is 147, it was called in 153 of the 374 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acai_61, Acai_66, Altjira_70, Anandi_69, Anandi_73, Arcadia_41, AreFloNak_64, AreFloNak_69, Argan_65, ArtetaBall_2, Arzan_66, Arzan_71, BarbieDoll_72, Barbonzobean_71, BenitoAntonio_41, Benllo_40, Biscute_68, BlackHoleSun_70, Blanky_1, Boog_67, Bouchard_65, Bouchard_70, Bowling_40, Breylor17_61, Breylor17_65, BronxBay_68, Brunswick_62, Brunswick_67, CWormy_2, CapnMurica_59, CapnMurica_63, CastorTray_65, CastorTray_69, Caterpillar_61, Caterpillar_65, Cheesy_40, Chlochlo_65, Chlochlo_70, Circum_42, Correa_38, Crocheter_2, Darby_60, Darby_64, DevitoJr_61, DevitoJr_65, Dialga_2, Dinallo_60, Dinallo_64, Djungelskog_67, DoctorPepper_67, Dynamite_40, Egad_68, ElephantMan_61, ElephantMan_66, Elsa_41, Elver_124, Elver_133, Elver_164, Elver_180, Gandionco_121, Gandionco_129, Gandionco_160, Gandionco_179,

GantcherGoblin_66, GermyBearimy_74, GermyBearimy_79, Giantsbane_65, Giantsbane_69, GoCrazy_39, Gordon_59, Gordon_63, Hankly_40, Heisenberger_40, Hemma_60, Hemma_65, HerbBucket_66, Hortihabitatio_2, Ingrid_68, Ingrid_72, Inked_67, Inked_71, Issa_60, Issa_64, JEGGS_40, Jazzy4900_65, Jazzy4900_69, JeNeSaisPas_121, JeNeSaisPas_130, JeNeSaisPas_164, JeNeSaisPas_182, Jeremy4pt0_67, Kardesai_42, KeaneyLin_39, KevinMinion_66, Kinny_71, Kureo_122, Kureo_130, Kureo_159, Kureo_178, Leathea_68, Lewando_71, LilHuddy_66, LilHuddy_70, Linda_68, Loretta_65, Loretta_69, LucySwiss_61, LucySwiss_66, Makai_65, Makai_70, Mardi_68, Marianna39_122, Marianna39_130, Marianna39_160, Marianna39_178, MediumFry_62, MediumFry_66, Michelle_68, MiniBagel_61, MiniBagel_65, Mooshroom_43, Mossy_1, MrAaronian_68, Mudcat_38, Muglass_69, NapoleonB_40, Nason_41, Natasha_71, Navi1117_70, Nightmare_63, Nightmare_67, Niktson_61, Niktson_66, Nivinsha_63, Nivinsha_69, Onestar_67, Paella_124, Paella_133, Paella_164, Paella_181, Perkunas_2, Phaby_67, Phaby_71, Phaila_68, PoeMe_68, PowellDog_71, ProfFrink_68, Qui_124, Qui_133, Qui_164, Qui_181, Raunak_69, Renaldo_76, Rizwana_8, RustyBoy_72, Salk_68, ScienceWizSam_62, ScienceWizSam_67, Shepard_67, Shepard_71, Shiba_67, Sloopyjoe_68, Spain_68, Sprinkle_68, StarLord_68, Stardom_38, Stardrop_68, Stayer_68, Sunny4976_64, Sunny4976_68, Synopsis_60, Synopsis_64, Tank_9, Tatanka_58, Tatanka_61, Teacup_62, Teacup_67, Tenney120_69, Tenno_62, Tenno_66, Tipton_66, Tipton_71, Tokki_70, Tokki_75, Tribby_40, TrixiePhattel_69, Truckee_63, Truckee_68, Trustiboi_61, Trustiboi_65, Untouchable_2, Uzumaki_65, Westerlin_61, Westerlin_65, Wilde_9, Xenomorph_37, YoshiYama_40, Zeina_70, Zippen_67, Zippen_71,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

- A3Wally_215, AWGoat_6, AmandaPanda_104, Anandi_74, Anglerfish_11, Annadreamy_67, Anon_48, Arcadia_72, Arcanine_11, Argie_6, Arri_80, Atkinbua_11, Attis_55, Bakery_85, Bantam_53, Barb_83, Beagle_10, BearBQ_64, BeesKnees_11, BellaJr_84, BenitoAntonio_71, Benllo_70, BetaFish_8, Beuffert_67, BigAnti_4, Blexus_93, Blueeyedbeauty_69, BobaPhett_98, Bobby_171, Bowling_74, Briton15_12, Brocalys_88, BruhMoment_8, Burwell21_90, ByChance_87, Cabrinians_93, CandC_55, Cantare_94, Carcharodon_55, Cardigan_139, Cardigan_140, Causa_146, Cheesy_73, CherryCola_80, Circum_74, ClamChowder_83, Clifton_88, Clown_82, Constance_64, Correa_71, CoveyB_81, Crumble_91, Danyall_81, DatBoi_51, Dodo_211, DogYard_8, Dori_58, DrLupo_104, DreamCatcher_12, Dynamite_72, Dynamix_11, EGUnicorn_51, ERHickory_13, Egi03_79, Elsa_72, Elver_123, Elver_125, Elver_233, Erasmago_204, Evamon_80, Faust_71, Fenn_11, Forrestell_8, Fransoyer_60, FreddyB_106, Fugax_84, G4_46, GMA2_84, GMA4_42, Gandionco_120, Gandionco_122, Gandionco_233, Gex_56, Gezellig_77, GoCrazy_69, GodPhather_6, Gorge_95, Greely_244, Halo3_78, Hankly_72, Heisenberger_71, Hemma_66, HomeFry_78, Ichabod_11, JEGGS_71, James_100, Jacob_99, JeNeSaisPas_120, JeNeSaisPas_122, JeNeSaisPas_235, JeanGrey_20, Jennelsea_94, JohnPork_82, JonJames_139, JonJames_140, KSSJEB_10, Kardesai_72, KeaneyLin_68, Kelcole_54, KillerQueen_57, KimmyK_80, Koella_89, Kubulix_9, Kudefre_118, Kureo_121, Kureo_123, Kureo_230, Lambo_93, LastJedi_87, Latretium_99, LilMoolah_99, Limpid_66, Lizziana_97, LordFarquaad_57, Magsby_55, Manatee_11, Maravista_93, Marcie_61, Marianna39_121, Marianna39_123, Marianna39_233, Martik_95, Mask_58, Mattes_97, McGuire_11, MellowYellow_8, Minnie_91, Mooshroom_73,

MortyNRick_62, Mudcat_68, Mutzi_78, Myrna_235, Naira_11, NapoleonB_73, Nason_72, Neroxid_43, Nikan_9, Nina_52, Nivrat_96, NormanBulbieJr_94, NyleyClemson_7, Octobien14_114, Odyssey395_10, Ollypop_11, Ollypop_7, OlympiaSaint_100, OneinaGillian_56, Paella_123, Paella_125, Paella_235, Parmesanjohn_55, ParvusTarda_93, PauloDiaboli_215, Peas_65, Pepe25_55, Phabba_246, Philus_98, Phlop_78, Phloss_53, PhuzzTulsa_6, PinkPlastic_9, Pipp_48, Pippin15_60, Pippy_94, Pipsqueaks_56, Pointis_8, Popstraw_8, Portcullis_81, Priscilla_97, PullumCavea_79, Pumpernickel_196, Pureglobe5_10, Qui_123, Qui_125, Qui_234, RIPWilbur_6, Rajelicia_10, Ranunculus_6, Raya_43, RazzB_7, RedBaron_57, Ren19_5, Ren19_9, Rizwana_7, RobinRose_58, Rockabye_66, RogerDodger_84, Romm_58, SJReid_70, Saal_94, SadLad_63, Salvador_80, Sandalphon_96, Schnauzer_56, ScoobyDoobyDoo_233, Seabiscuit_12, Sephiroth_114, SeresaTree_71, Sham_67, SharkTale_84, ShiLan_99, Shinji_80, Shocker_3, ShowerHandel_97, SilentRX_7, Sixsevenium_82, Skyerus_38, Slagathor_11, SmokingBunny_81, Smurph_55, SoilAssassin_55, SpeedDemon_540, Spoonbill_96, Sporto_67, Squee_11, Squiddly_103, StAugustine_144, Stardom_72, Stellammi_129, Sunfish_12, SwagPiggett_98, Switzer_11, Syleon_119, Tempo_56, Tessdabest_55, Togo_80, Tortellini_63, Tribby_76, TunaTartare_69, Twister6_81, U2_10, Valary_81, Vivum_96, Vordorf_53, Whouxphf_100, Wizard_77, Wojtek_85, Xenomorph_69, Xerxes_55, Yorick_92, YoshiYama_74, YungMoney_79, Yvonnestic_136, Yvonnestic_137, Zizzle_99,

Summary by start number:

Start 49:

- Found in 13 of 455 (2.9%) of genes in pham
- Manual Annotations of this start: 5 of 374
- Called 38.5% of time when present
- Phage (with cluster) where this start called: Carcharodon_55 (N), Parmesanjohn_55 (N), Phloss_53 (N), Schnauzer_56 (N), Smurph_55 (N),

Start 86:

- Found in 2 of 455 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4_42 (singleton), Vordorf_53 (DT),

Start 88:

- Found in 11 of 455 (2.4%) of genes in pham
- Manual Annotations of this start: 5 of 374
- Called 54.5% of time when present
- Phage (with cluster) where this start called: EGUnicorn_51 (N), Gex_56 (N), Magsby_55 (N), Pipsqueaks_56 (N), Tessdabest_55 (N), Xerxes_55 (N),

Start 92:

- Found in 7 of 455 (1.5%) of genes in pham
- Manual Annotations of this start: 2 of 374
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Dori_58 (AD), Mask_58 (AD),

Start 98:

- Found in 8 of 455 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 374

- Called 12.5% of time when present
- Phage (with cluster) where this start called: HomeFry_78 (CR5),

Start 110:

- Found in 7 of 455 (1.5%) of genes in pham
- Manual Annotations of this start: 4 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver_125 (FK), Gandionco_122 (FK), JeNeSaisPas_122 (FK), Kureo_123 (FK), Marianna39_123 (FK), Paella_125 (FK), Qui_125 (FK),

Start 112:

- Found in 2 of 455 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rockabye_66 (FC), SJReid_70 (FC),

Start 121:

- Found in 8 of 455 (1.8%) of genes in pham
- Manual Annotations of this start: 7 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy_67 (BK1), Beuffert_67 (BK1), Blueeyedbeauty_69 (BK1), Faust_71 (BK1), Limpid_66 (BK1), SeresaTree_71 (BK1), Sham_67 (BK1), TunaTartare_69 (BK1),

Start 122:

- Found in 1 of 455 (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: BellaJr_84 (FN),

Start 128:

- Found in 4 of 455 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 374
- Called 50.0% of time when present
- Phage (with cluster) where this start called: ParvusTarda_93 (DV), Wojtek_85 (DV),

Start 131:

- Found in 3 of 455 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attis_55 (CZ2), LordFarquaad_57 (CZ2), SoilAssassin_55 (CZ2),

Start 135:

- Found in 9 of 455 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 374
- Called 11.1% of time when present
- Phage (with cluster) where this start called: RobinRose_58 (EG),

Start 138:

- Found in 4 of 455 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 374

- Called 25.0% of time when present
- Phage (with cluster) where this start called: Seabiscuit_12 (A1),

Start 139:

- Found in 1 of 455 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JeanGrey_20 (singleton),

Start 140:

- Found in 7 of 455 (1.5%) of genes in pham
- Manual Annotations of this start: 4 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver_123 (FK), Gandionco_120 (FK), JeNeSaisPas_120 (FK), Kureo_121 (FK), Marianna39_121 (FK), Paella_123 (FK), Qui_123 (FK),

Start 141:

- Found in 17 of 455 (3.7%) of genes in pham
- Manual Annotations of this start: 15 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beagle_10 (AP2), BetaFish_8 (AP2), DogYard_8 (AP2), Forrestell_8 (AP2), Kubulix_9 (AP2), MellowYellow_8 (AP2), NyleyClemson_7 (AP2), Odyssey395_10 (AP2), Ollypop_7 (AP2), PhuzzTulsa_6 (AP2), Pointis_8 (AP2), Popstraw_8 (AP2), Pureglobe5_10 (AP2), RIPWilbur_6 (AP2), Ranunculus_6 (AP), RazzB_7 (AP2), Ren19_5 (AP2),

Start 142:

- Found in 9 of 455 (2.0%) of genes in pham
- Manual Annotations of this start: 7 of 374
- Called 77.8% of time when present
- Phage (with cluster) where this start called: CandC_55 (EG), Kelcole_54 (EG), KillerQueen_57 (EG), Marcie_61 (EG), OneinaGillian_56 (EG), Pepe25_55 (EG), Tempo_56 (EG),

Start 143:

- Found in 31 of 455 (6.8%) of genes in pham
- Manual Annotations of this start: 26 of 374
- Called 93.5% of time when present
- Phage (with cluster) where this start called: A3Wally_215 (GD1), Arcadia_72 (AM), BenitoAntonio_71 (AM), Benllo_70 (AM), Bowling_74 (AM), Cheesy_73 (AM), Circum_74 (AM), Correa_71 (AM), Dodo_211 (GD1), Dynamite_72 (AM), Elsa_72 (AM), Erasmago_204 (GD2), GoCrazy_69 (AM), Hankly_72 (AM), Heisenberger_71 (AM), JEGGS_71 (AM), Kardesai_72 (AM), KeaneyLin_68 (AM), Mooshroom_73 (AM), Mudcat_68 (AM), NapoleonB_73 (AM), Nason_72 (AM), PauloDiaboli_215 (GD1), Pumpernickel_196 (GD4), Stardom_72 (AM), Tortellini_63 (P2), Tribby_76 (AM), Xenomorph_69 (AM), YoshiYama_74 (AM),

Start 145:

- Found in 3 of 455 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 374
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Bantam_53 (DL), GMA2_84 (DS), SpeedDemon_540 (DL),

Start 146:

- Found in 1 of 455 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sandalphon_96 (F1),

Start 147:

- Found in 200 of 455 (44.0%) of genes in pham
- Manual Annotations of this start: 153 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acai_61 (AU1), Acai_66 (AU1), Altjira_70 (AU6), Anandi_69 (AU4), Anandi_73 (AU4), Arcadia_41 (AM), AreFloNak_64 (AU1), AreFloNak_69 (AU1), Argan_65 (AU6), ArtetaBall_2 (DJ), Arzan_66 (FI), Arzan_71 (FI), BarbieDoll_72 (AU6), Barbonzobean_71 (AU6), BenitoAntonio_41 (AM), Benilo_40 (AM), Biscute_68 (AU6), BlackHoleSun_70 (AU6), Blanky_1 (DJ), Boog_67 (AW), Bouchard_65 (AU2), Bouchard_70 (AU2), Bowling_40 (AM), Breylor17_61 (AU1), Breylor17_65 (AU1), BronxBay_68 (AW), Brunswick_62 (AU1), Brunswick_67 (AU1), CWormy_2 (DJ), CapnMurica_59 (AU1), CapnMurica_63 (AU1), CastorTray_65 (AU1), CastorTray_69 (AU1), Caterpillar_61 (AU4), Caterpillar_65 (AU4), Cheesy_40 (AM), Chlocho_65 (AU2), Chlocho_70 (AU2), Circum_42 (AM), Correa_38 (AM), Crocheter_2 (DJ), Darby_60 (AU1), Darby_64 (AU1), DevitoJr_61 (AU1), DevitoJr_65 (AU1), Dialga_2 (DJ), Dinallo_60 (AU1), Dinallo_64 (AU1), Djungelskog_67 (AW), DoctorPepper_67 (AW), Dynamite_40 (AM), Egad_68 (AW), ElephantMan_61 (AU1), ElephantMan_66 (AU1), Elsa_41 (AM), Elver_124 (FK), Elver_133 (FK), Elver_164 (FK), Elver_180 (FK), Gandionco_121 (FK), Gandionco_129 (FK), Gandionco_160 (FK), Gandionco_179 (FK), GantcherGoblin_66 (AU6), GermyBearimy_74 (FI), GermyBearimy_79 (FI), Giantsbane_65 (AU2), Giantsbane_69 (AU2), GoCrazy_39 (AM), Gordon_59 (AU1), Gordon_63 (AU1), Hankly_40 (AM), Heisenberger_40 (AM), Hemma_60 (AU1), Hemma_65 (AU1), HerbBucket_66 (AW), Hortihabitatio_2 (DJ), Ingrid_68 (AU3), Ingrid_72 (AU3), Inked_67 (AU7), Inked_71 (AU7), Issa_60 (AU1), Issa_64 (AU1), JEGGS_40 (AM), Jazzy4900_65 (FI), Jazzy4900_69 (FI), JeNeSaisPas_121 (FK), JeNeSaisPas_130 (FK), JeNeSaisPas_164 (FK), JeNeSaisPas_182 (FK), Jeremy4pt0_67 (AW), Kardesai_42 (AM), KeaneyLin_39 (AM), KevinMinion_66 (AU6), Kinny_71 (AU6), Kureo_122 (FK), Kureo_130 (FK), Kureo_159 (FK), Kureo_178 (FK), Leatheia_68 (AU6), Lewando_71 (AU6), LilHuddy_66 (AU2), LilHuddy_70 (AU2), Linda_68 (AW), Loretta_65 (AU3), Loretta_69 (AU3), LucySwiss_61 (AU1), LucySwiss_66 (AU1), Makai_65 (AU5), Makai_70 (AU5), Mardi_68 (AU6), Marianna39_122 (FK), Marianna39_130 (FK), Marianna39_160 (FK), Marianna39_178 (FK), MediumFry_62 (AU4), MediumFry_66 (AU4), Michelle_68 (AW), MiniBagel_61 (AU1), MiniBagel_65 (AU1), Mooshroom_43 (AM), Mossy_1 (DJ), MrAaronian_68 (AW), Mudcat_38 (AM), Muglass_69 (AU6), NapoleonB_40 (AM), Nason_41 (AM), Natasha_71 (AW), Navi1117_70 (AU6), Nightmare_63 (AU1), Nightmare_67 (AU1), Niktson_61 (AU1), Niktson_66 (AU1), Nivinsha_63 (AU1), Nivinsha_69 (AU1), Onestar_67 (AW), Paella_124 (FK), Paella_133 (FK), Paella_164 (FK), Paella_181 (FK), Perkunas_2 (DJ), Phaby_67 (AU2), Phaby_71 (AU2), Phaila_68 (AU6), PoeMe_68 (AU6), Powellldog_71 (AW), ProfFrink_68 (AW), Qui_124 (FK), Qui_133 (FK), Qui_164 (FK), Qui_181 (FK), Raunak_69 (AW), Renaldo_76 (AU6), Rizwana_8 (AP1), RustyBoy_72 (AW), Salk_68 (AW), ScienceWizSam_62 (AU1), ScienceWizSam_67 (AU1), Shepard_67 (AU2),

Shepard_71 (AU2), Shiba_67 (AW), Sloopyjoe_68 (AW), Spain_68 (AW), Sprinkle_68 (AW), StarLord_68 (AW), Stardom_38 (AM), Stardrop_68 (AU6), Stayer_68 (AW), Sunny4976_64 (FI), Sunny4976_68 (FI), Synopsis_60 (AU1), Synopsis_64 (AU1), Tank_9 (AP1), Tatanka_58 (AU1), Tatanka_61 (AU1), Teacup_62 (AU1), Teacup_67 (AU1), Tenney120_69 (AU6), Tenno_62 (AU1), Tenno_66 (AU1), Tipton_66 (AU2), Tipton_71 (AU2), Tokki_70 (AU2), Tokki_75 (AU2), Tribby_40 (AM), TrixiePhattel_69 (AU6), Truckee_63 (AU5), Truckee_68 (AU5), Trustiboi_61 (AU1), Trustiboi_65 (AU1), Untouchable_2 (DJ), Uzumaki_65 (AU6), Westerlin_61 (AU1), Westerlin_65 (AU1), Wilde_9 (AP1), Xenomorph_37 (AM), YoshiYama_40 (AM), Zeina_70 (AU6), Zippen_67 (AU7), Zippen_71 (AU7),

Start 148:

- Found in 4 of 455 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 374
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Constance_64 (FA), Peas_65 (FA), Shinji_80 (DC1),

Start 149:

- Found in 8 of 455 (1.8%) of genes in pham
- Manual Annotations of this start: 8 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat_6 (AP4), Anon_48 (A15), BruhMoment_8 (AP3), DatBoi_51 (DL), Pipp_48 (CV), Rizwana_7 (AP1), SilentRX_7 (AP4), Stellammi_129 (UNK),

Start 151:

- Found in 1 of 455 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cantare_94 (singleton),

Start 152:

- Found in 44 of 455 (9.7%) of genes in pham
- Manual Annotations of this start: 32 of 374
- Called 79.5% of time when present
- Phage (with cluster) where this start called: Argie_6 (W), Arri_80 (DC1), Bakery_85 (DC1), Barb_83 (DC1), Briton15_12 (A1), CherryCola_80 (DC1), ClamChowder_83 (DC1), Clown_82 (DC2), CoveyB_81 (DC1), Danyall_81 (DC1), Egi03_79 (DC1), Evamon_80 (DC1), Fugax_84 (DC1), Gezellig_77 (DC1), GodPhather_6 (W), Halo3_78 (DC1), Ichabod_11 (A1), JohnPork_82 (DC1), KimmyK_80 (DC1), Lambo_93 (DV), Mutzi_78 (DC1), Phlop_78 (DC1), Portcullis_81 (DC1), PullumCavea_79 (DC1), RogerDodger_84 (DC1), Salvador_80 (DC1), SharkTale_84 (DC1), Sixsevenium_82 (DC1), SmokingBunny_81 (DC1), Squiddly_103 (DN2), Togo_80 (DC1), Twister6_81 (DC1), Valary_81 (DC1), Wizard_77 (DC1), YungMoney_79 (DC1),

Start 153:

- Found in 52 of 455 (11.4%) of genes in pham
- Manual Annotations of this start: 40 of 374
- Called 86.5% of time when present
- Phage (with cluster) where this start called: Blexus_93 (F1), BobaPhett_98 (F1), Bobby_171 (J), Brocalys_88 (F1), Burwell21_90 (F1), ByChance_87 (F1),

Cabrinians_93 (F1), Clifton_88 (F1), Crumble_91 (F1), FreddyB_106 (F1), Gorge_95 (F1), James_100 (F1), Jarcob_99 (F1), Jennelsea_94 (F1), Koella_89 (F1), LastJedi_87 (F1), Latretium_99 (F1), LilMoolah_99 (F1), Lizziana_97 (F1), Maravista_93 (F1), Martik_95 (F1), Mattes_97 (F1), Minnie_91 (F1), Neroxid_43 (FQ2), Nikan_9 (AP2), Nivrat_96 (F1), NormanBulbieJr_94 (F1), Ollypop_11 (AP2), OlympiaSaint_100 (F1), Philus_98 (F1), Pippy_94 (F1), Priscilla_97 (F1), Raya_43 (FQ2), Ren19_9 (AP2), Romm_58 (EG), Saal_94 (F1), ShiLan_99 (F1), ShowerHandel_97 (F1), Skyerus_38 (FQ2), Spoonbill_96 (F1), SwagPigglett_98 (F1), Vivum_96 (F1), Whouxphf_100 (F1), Yorick_92 (F1), Zizzle_99 (F1),

Start 154:

- Found in 2 of 455 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BearBQ_64 (DN), MortyNRick_62 (DN),

Start 155:

- Found in 1 of 455 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shocker_3 (singleton),

Start 156:

- Found in 23 of 455 (5.1%) of genes in pham
- Manual Annotations of this start: 21 of 374
- Called 91.3% of time when present
- Phage (with cluster) where this start called: Anglerfish_11 (A1), Arcanine_11 (A1), Atkinbua_11 (A1), BeesKnees_11 (A1), DreamCatcher_12 (A1), Dynamix_11 (A1), Fenn_11 (A1), KSSJEB_10 (A1), Manatee_11 (A1), McGuire_11 (A1), Naira_11 (A1), Nina_52 (CT), PinkPlastic_9 (A1), Rajelicia_10 (A1), RedBaron_57 (CT), Slagathor_11 (A1), Sporto_67 (AW), Squee_11 (A1), Sunfish_12 (singleton), Switzer_11 (A1), U2_10 (A1),

Start 157:

- Found in 5 of 455 (1.1%) of genes in pham
- Manual Annotations of this start: 4 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anandi_74 (AU4), Cardigan_140 (DD), Hemma_66 (AU1), JonJames_140 (DD), Yvonnetastic_137 (DD),

Start 158:

- Found in 3 of 455 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 374
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Fransoyer_60 (EG), SadLad_63 (EG),

Start 163:

- Found in 3 of 455 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_139 (DD), JonJames_139 (DD), Yvonnetastic_136 (DD),

Start 166:

- Found in 1 of 455 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: G4_46 (BW),

Start 169:

- Found in 4 of 455 (0.9%) of genes in pham
- Manual Annotations of this start: 4 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kudrefre_118 (DU1), Octobien14_114 (DU1), Sephiroth_114 (DU1), Syleon_119 (DU1),

Start 170:

- Found in 2 of 455 (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: ERHickory_13 (singleton),

Start 172:

- Found in 1 of 455 (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: BigAnti_4 (singleton),

Start 174:

- Found in 25 of 455 (5.5%) of genes in pham
- Manual Annotations of this start: 4 of 374
- Called 28.0% of time when present
- Phage (with cluster) where this start called: Elver_233 (FK), Gandionco_233 (FK), JeNeSaisPas_235 (FK), Kureo_230 (FK), Marianna39_233 (FK), Paella_235 (FK), Qui_234 (FK),

Start 175:

- Found in 4 of 455 (0.9%) of genes in pham
- Manual Annotations of this start: 3 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely_244 (C2), Myrna_235 (C2), Phabba_246 (C2), ScoobyDoobyDoo_233 (C2),

Start 181:

- Found in 2 of 455 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 374
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa_146 (AI), StAugustine_144 (AI),

Start 190:

- Found in 4 of 455 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 374
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Pippin15_60 (JA),

Start 208:

- Found in 5 of 455 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 374
- Called 40.0% of time when present
- Phage (with cluster) where this start called: AmandaPanda_104 (H2), DrLupo_104 (H2),

Summary by clusters:

There are 55 clusters represented in this pham: DN, GD1, singleton, DJ, AW, AP2, AP3, DD, AP1, DL, AP4, FA, BW, DV, FI, DT, FK, DS, FN, A15, A1, JA, AU1, CZ2, AU3, AU2, AU5, AU4, AU7, AU6, C2, DC1, P2, AD, AI, EG, J, AM, N, AP, BK1, W, DU1, UNK, DC2, CV, CT, F1, CR5, H2, DN2, FC, GD4, FQ2, GD2,

Info for manual annotations of cluster A1:

- Start number 138 was manually annotated 1 time for cluster A1.
- Start number 152 was manually annotated 2 times for cluster A1.
- Start number 156 was manually annotated 17 times for cluster A1.

Info for manual annotations of cluster A15:

- Start number 149 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster AD:

- Start number 92 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster AI:

- Start number 181 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster AM:

- Start number 143 was manually annotated 21 times for cluster AM.
- Start number 147 was manually annotated 21 times for cluster AM.

Info for manual annotations of cluster AP:

- Start number 141 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 147 was manually annotated 3 times for cluster AP1.
- Start number 149 was manually annotated 1 time for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 141 was manually annotated 14 times for cluster AP2.
- Start number 153 was manually annotated 2 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 149 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 149 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster AU1:

- Start number 147 was manually annotated 40 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 147 was manually annotated 16 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 147 was manually annotated 4 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 147 was manually annotated 6 times for cluster AU4.
- Start number 157 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 147 was manually annotated 4 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 147 was manually annotated 16 times for cluster AU6.

Info for manual annotations of cluster AU7:

- Start number 147 was manually annotated 4 times for cluster AU7.

Info for manual annotations of cluster AW:

- Start number 147 was manually annotated 18 times for cluster AW.
- Start number 156 was manually annotated 1 time for cluster AW.

Info for manual annotations of cluster BK1:

- Start number 121 was manually annotated 7 times for cluster BK1.

Info for manual annotations of cluster BW:

- Start number 166 was manually annotated 1 time for cluster BW.

Info for manual annotations of cluster C2:

- Start number 175 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster CR5:

- Start number 98 was manually annotated 1 time for cluster CR5.

Info for manual annotations of cluster CT:

- Start number 156 was manually annotated 2 times for cluster CT.

Info for manual annotations of cluster CV:

- Start number 149 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ2:

- Start number 131 was manually annotated 3 times for cluster CZ2.

Info for manual annotations of cluster DC1:

- Start number 152 was manually annotated 25 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 152 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DD:

- Start number 157 was manually annotated 3 times for cluster DD.
- Start number 163 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DJ:

- Start number 147 was manually annotated 5 times for cluster DJ.

Info for manual annotations of cluster DL:

- Start number 145 was manually annotated 2 times for cluster DL.
- Start number 149 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DN:

- Start number 154 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN2:

- Start number 152 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DU1:

- Start number 169 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DV:

- Start number 128 was manually annotated 2 times for cluster DV.
- Start number 152 was manually annotated 1 time for cluster DV.

Info for manual annotations of cluster EG:

- Start number 135 was manually annotated 1 time for cluster EG.
- Start number 142 was manually annotated 7 times for cluster EG.
- Start number 158 was manually annotated 2 times for cluster EG.

Info for manual annotations of cluster F1:

- Start number 146 was manually annotated 1 time for cluster F1.
- Start number 153 was manually annotated 37 times for cluster F1.

Info for manual annotations of cluster FA:

- Start number 148 was manually annotated 2 times for cluster FA.

Info for manual annotations of cluster FC:

- Start number 112 was manually annotated 2 times for cluster FC.

Info for manual annotations of cluster FK:

- Start number 110 was manually annotated 4 times for cluster FK.
- Start number 140 was manually annotated 4 times for cluster FK.
- Start number 147 was manually annotated 16 times for cluster FK.
- Start number 174 was manually annotated 4 times for cluster FK.

Info for manual annotations of cluster GD1:

- Start number 143 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD4:

- Start number 143 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster H2:

- Start number 208 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster J:

- Start number 153 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster JA:

- Start number 190 was manually annotated 1 time for cluster JA.

Info for manual annotations of cluster N:

- Start number 49 was manually annotated 5 times for cluster N.
- Start number 88 was manually annotated 5 times for cluster N.

Info for manual annotations of cluster P2:

- Start number 143 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster UNK:

- Start number 149 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster W:

- Start number 152 was manually annotated 2 times for cluster W.

Gene Information:

Gene: A3Wally_215 Start: 115440, Stop: 115123, Start Num: 143

Candidate Starts for A3Wally_215:

(Start: 143 @115440 has 26 MA's), (241, 115323), (272, 115284), (319, 115188), (336, 115128),

Gene: AWGoat_6 Start: 2566, Stop: 2979, Start Num: 149

Candidate Starts for AWGoat_6:

(Start: 149 @2566 has 8 MA's), (202, 2656), (261, 2773), (310, 2869),

Gene: Acai_61 Start: 44047, Stop: 44346, Start Num: 147

Candidate Starts for Acai_61:

(Start: 147 @44047 has 153 MA's), (244, 44179), (246, 44182), (311, 44281),

Gene: Acai_66 Start: 45783, Stop: 46046, Start Num: 147

Candidate Starts for Acai_66:

(54, 45588), (73, 45633), (74, 45636), (77, 45645), (82, 45663), (84, 45666), (93, 45687), (95, 45690), (105, 45714), (Start: 147 @45783 has 153 MA's), (317, 46005), (323, 46020),

Gene: Altjira_70 Start: 44243, Stop: 44527, Start Num: 147

Candidate Starts for Altjira_70:

(Start: 147 @44243 has 153 MA's), (Start: 174 @44270 has 4 MA's), (233, 44363),

Gene: AmandaPanda_104 Start: 65399, Stop: 65650, Start Num: 208

Candidate Starts for AmandaPanda_104:

(117, 65246), (130, 65267), (183, 65360), (Start: 208 @65399 has 1 MA's), (294, 65552), (299, 65558),

Gene: Anandi_69 Start: 44709, Stop: 44999, Start Num: 147

Candidate Starts for Anandi_69:

(Start: 147 @44709 has 153 MA's), (Start: 174 @44739 has 4 MA's), (203, 44787), (232, 44826), (244, 44841), (246, 44844),

Gene: Anandi_73 Start: 46264, Stop: 46551, Start Num: 147

Candidate Starts for Anandi_73:

(54, 46090), (73, 46132), (Start: 92 @46183 has 2 MA's), (95, 46189), (103, 46210), (120, 46228), (133, 46252), (Start: 147 @46264 has 153 MA's), (228, 46378),

Gene: Anandi_74 Start: 46553, Stop: 46873, Start Num: 157

Candidate Starts for Anandi_74:

(87, 46430), (103, 46466), (116, 46493), (Start: 157 @46553 has 4 MA's), (207, 46640), (308, 46799),

Gene: Anglerfish_11 Start: 6625, Stop: 6939, Start Num: 156

Candidate Starts for Anglerfish_11:

(Start: 156 @6625 has 21 MA's), (178, 6664), (194, 6673), (234, 6742), (282, 6817), (313, 6877),

Gene: Annadreamy_67 Start: 53881, Stop: 54282, Start Num: 121

Candidate Starts for Annadreamy_67:

(Start: 121 @53881 has 7 MA's), (165, 53947), (191, 53992), (209, 54019), (213, 54025), (231, 54061), (248, 54088), (252, 54094), (270, 54130), (302, 54181), (306, 54187),

Gene: Anon_48 Start: 31013, Stop: 30756, Start Num: 149

Candidate Starts for Anon_48:

(Start: 149 @31013 has 8 MA's), (282, 30884), (294, 30860),

Gene: Arcadia_72 Start: 44474, Stop: 44782, Start Num: 143

Candidate Starts for Arcadia_72:

(Start: 143 @44474 has 26 MA's), (218, 44576), (257, 44612), (290, 44675), (310, 44705),

Gene: Arcadia_41 Start: 29295, Stop: 29603, Start Num: 147

Candidate Starts for Arcadia_41:

(Start: 147 @29295 has 153 MA's),

Gene: Arcanine_11 Start: 6591, Stop: 6905, Start Num: 156

Candidate Starts for Arcanine_11:

(Start: 156 @6591 has 21 MA's), (178, 6630), (194, 6639), (234, 6708), (282, 6783), (313, 6843),

Gene: AreFloNak_64 Start: 44018, Stop: 44311, Start Num: 147

Candidate Starts for AreFloNak_64:

(Start: 147 @44018 has 153 MA's), (246, 44156),

Gene: AreFloNak_69 Start: 45830, Stop: 46093, Start Num: 147

Candidate Starts for AreFloNak_69:

(Start: 147 @45830 has 153 MA's), (207, 45908), (323, 46067),

Gene: Argan_65 Start: 42966, Stop: 43247, Start Num: 147

Candidate Starts for Argan_65:

(Start: 147 @42966 has 153 MA's), (Start: 174 @42993 has 4 MA's), (201, 43038), (229, 43074), (295, 43158), (320, 43203),

Gene: Argie_6 Start: 3283, Stop: 3579, Start Num: 152

Candidate Starts for Argie_6:

(Start: 152 @3283 has 32 MA's), (206, 3376), (215, 3391), (294, 3481), (308, 3505), (313, 3517),

Gene: Arri_80 Start: 52921, Stop: 53367, Start Num: 152

Candidate Starts for Arri_80:

(25, 52615), (28, 52633), (51, 52726), (Start: 152 @52921 has 32 MA's), (178, 52969), (206, 53017), (294, 53173), (308, 53197),

Gene: ArtetaBall_2 Start: 479, Stop: 808, Start Num: 147

Candidate Starts for ArtetaBall_2:

(Start: 147 @479 has 153 MA's), (192, 545), (279, 686), (294, 713), (303, 725),

Gene: Arzan_71 Start: 45586, Stop: 45873, Start Num: 147

Candidate Starts for Arzan_71:

(133, 45568), (Start: 147 @45586 has 153 MA's), (310, 45802),

Gene: Arzan_66 Start: 43794, Stop: 44099, Start Num: 147

Candidate Starts for Arzan_66:

(Start: 147 @43794 has 153 MA's), (262, 43950), (268, 43962), (283, 43983),

Gene: Atkinbua_11 Start: 6636, Stop: 6950, Start Num: 156

Candidate Starts for Atkinbua_11:

(Start: 156 @6636 has 21 MA's), (178, 6675), (234, 6753), (265, 6798),

Gene: Attis_55 Start: 39035, Stop: 39415, Start Num: 131

Candidate Starts for Attis_55:

(Start: 131 @39035 has 3 MA's), (164, 39089), (241, 39218), (265, 39254), (279, 39281), (282, 39284), (299, 39314), (308, 39332), (313, 39344), (330, 39401),

Gene: Bakery_85 Start: 55359, Stop: 55733, Start Num: 152

Candidate Starts for Bakery_85:

(Start: 152 @55359 has 32 MA's), (292, 55536), (294, 55539),

Gene: Bantam_53 Start: 43734, Stop: 44000, Start Num: 145

Candidate Starts for Bantam_53:

(Start: 145 @43734 has 2 MA's), (178, 43782), (179, 43785), (282, 43878), (294, 43902),

Gene: Barb_83 Start: 53513, Stop: 53983, Start Num: 152

Candidate Starts for Barb_83:

(42, 53279), (51, 53306), (53, 53309), (Start: 152 @53513 has 32 MA's), (178, 53561), (223, 53645), (294, 53789),

Gene: BarbieDoll_72 Start: 44655, Stop: 44960, Start Num: 147

Candidate Starts for BarbieDoll_72:

(Start: 147 @44655 has 153 MA's), (Start: 174 @44685 has 4 MA's), (198, 44727), (287, 44853), (321, 44931),

Gene: Barbonzobean_71 Start: 44903, Stop: 45208, Start Num: 147

Candidate Starts for Barbonzobean_71:

(Start: 147 @44903 has 153 MA's), (198, 44975), (232, 45023),

Gene: Beagle_10 Start: 3455, Stop: 3862, Start Num: 141

Candidate Starts for Beagle_10:

(Start: 141 @3455 has 15 MA's), (173, 3506), (178, 3515), (225, 3602), (251, 3650), (277, 3716), (288, 3734), (299, 3752),

Gene: BearBQ_64 Start: 41458, Stop: 41745, Start Num: 154

Candidate Starts for BearBQ_64:

(35, 41194), (45, 41230), (46, 41236), (84, 41332), (144, 41446), (Start: 154 @41458 has 2 MA's), (178, 41503), (258, 41575), (303, 41653), (313, 41677), (330, 41734),

Gene: BeesKnees_11 Start: 6720, Stop: 7034, Start Num: 156

Candidate Starts for BeesKnees_11:

(Start: 156 @6720 has 21 MA's), (178, 6759), (234, 6837), (265, 6882),

Gene: BellaJr_84 Start: 48464, Stop: 48778, Start Num: 122

Candidate Starts for BellaJr_84:

(122, 48464), (161, 48512), (323, 48746),

Gene: BenitoAntonio_41 Start: 28872, Stop: 29180, Start Num: 147

Candidate Starts for BenitoAntonio_41:

(Start: 147 @28872 has 153 MA's), (192, 28944),

Gene: BenitoAntonio_71 Start: 44114, Stop: 44425, Start Num: 143

Candidate Starts for BenitoAntonio_71:

(Start: 143 @44114 has 26 MA's), (184, 44177), (257, 44255), (266, 44276), (281, 44300), (290, 44318), (310, 44348),

Gene: Benllo_70 Start: 44792, Stop: 45103, Start Num: 143

Candidate Starts for Benllo_70:

(Start: 143 @44792 has 26 MA's), (184, 44855), (257, 44933), (266, 44954), (281, 44978), (290, 44996), (310, 45026),

Gene: Benllo_40 Start: 29550, Stop: 29864, Start Num: 147

Candidate Starts for Benllo_40:

(Start: 147 @29550 has 153 MA's), (224, 29667), (247, 29694),

Gene: BetaFish_8 Start: 3461, Stop: 3868, Start Num: 141

Candidate Starts for BetaFish_8:

(Start: 141 @3461 has 15 MA's), (173, 3512), (178, 3521), (225, 3608), (251, 3656), (277, 3722), (288, 3740), (299, 3758),

Gene: Beuffert_67 Start: 55006, Stop: 55407, Start Num: 121

Candidate Starts for Beuffert_67:

(Start: 121 @55006 has 7 MA's), (187, 55111), (191, 55117), (209, 55144), (270, 55255), (298, 55300), (306, 55312),

Gene: BigAnti_4 Start: 2585, Stop: 2959, Start Num: 172

Candidate Starts for BigAnti_4:

(150, 2546), (172, 2585), (Start: 174 @2588 has 4 MA's), (178, 2597), (Start: 190 @2618 has 1 MA's), (209, 2648), (222, 2669), (261, 2729), (282, 2777), (294, 2801),

Gene: Biscute_68 Start: 44307, Stop: 44612, Start Num: 147

Candidate Starts for Biscute_68:

(Start: 147 @44307 has 153 MA's), (Start: 174 @44337 has 4 MA's), (198, 44379), (287, 44505), (321, 44583),

Gene: BlackHoleSun_70 Start: 43081, Stop: 43365, Start Num: 147

Candidate Starts for BlackHoleSun_70:
(Start: 147 @43081 has 153 MA's), (160, 43087),

Gene: Blanky_1 Start: 220, Stop: 549, Start Num: 147
Candidate Starts for Blanky_1:
(Start: 147 @220 has 153 MA's), (178, 268), (230, 352), (279, 427), (282, 430), (294, 454), (303, 466),

Gene: Blexus_93 Start: 53556, Stop: 53837, Start Num: 153
Candidate Starts for Blexus_93:
(17, 53145), (20, 53166), (22, 53187), (24, 53217), (Start: 153 @53556 has 40 MA's), (178, 53601),
(203, 53619), (294, 53736),

Gene: Blueeyedbeauty_69 Start: 54393, Stop: 54800, Start Num: 121
Candidate Starts for Blueeyedbeauty_69:
(Start: 121 @54393 has 7 MA's), (Start: 143 @54429 has 26 MA's), (189, 54507), (213, 54543), (235, 54582), (264, 54633), (285, 54666), (304, 54699), (306, 54705),

Gene: BobaPhett_98 Start: 55238, Stop: 55519, Start Num: 153
Candidate Starts for BobaPhett_98:
(17, 54827), (20, 54848), (22, 54869), (24, 54899), (Start: 153 @55238 has 40 MA's), (178, 55283),
(203, 55301), (294, 55418), (313, 55454),

Gene: Bobby_171 Start: 94727, Stop: 95017, Start Num: 153
Candidate Starts for Bobby_171:
(Start: 153 @94727 has 40 MA's), (168, 94751), (178, 94766), (294, 94919), (299, 94925),

Gene: Boog_67 Start: 43689, Stop: 44018, Start Num: 147
Candidate Starts for Boog_67:
(Start: 147 @43689 has 153 MA's), (244, 43833), (256, 43854), (318, 43977),

Gene: Bouchard_65 Start: 44672, Stop: 44965, Start Num: 147
Candidate Starts for Bouchard_65:
(Start: 147 @44672 has 153 MA's),

Gene: Bouchard_70 Start: 46435, Stop: 46707, Start Num: 147
Candidate Starts for Bouchard_70:
(Start: 147 @46435 has 153 MA's), (289, 46615),

Gene: Bowling_74 Start: 45068, Stop: 45379, Start Num: 143
Candidate Starts for Bowling_74:
(Start: 143 @45068 has 26 MA's), (184, 45131), (257, 45209), (266, 45230), (281, 45254), (290, 45272), (310, 45302),

Gene: Bowling_40 Start: 28747, Stop: 29055, Start Num: 147
Candidate Starts for Bowling_40:
(Start: 147 @28747 has 153 MA's),

Gene: Breylor17_61 Start: 44593, Stop: 44886, Start Num: 147
Candidate Starts for Breylor17_61:
(Start: 147 @44593 has 153 MA's), (246, 44731),

Gene: Breylor17_65 Start: 46223, Stop: 46486, Start Num: 147
Candidate Starts for Breylor17_65:

(Start: 147 @46223 has 153 MA's), (207, 46301), (323, 46460),

Gene: Briton15_12 Start: 6774, Stop: 7046, Start Num: 152

Candidate Starts for Briton15_12:

(Start: 152 @6774 has 32 MA's), (178, 6813), (203, 6831), (272, 6909), (294, 6948),

Gene: Brocalys_88 Start: 50717, Stop: 50998, Start Num: 153

Candidate Starts for Brocalys_88:

(17, 50306), (20, 50327), (22, 50348), (24, 50378), (Start: 153 @50717 has 40 MA's), (178, 50762), (203, 50780), (294, 50897),

Gene: BronxBay_68 Start: 43961, Stop: 44290, Start Num: 147

Candidate Starts for BronxBay_68:

(Start: 147 @43961 has 153 MA's), (244, 44105), (256, 44126), (318, 44249),

Gene: BruhMoment_8 Start: 3480, Stop: 3902, Start Num: 149

Candidate Starts for BruhMoment_8:

(Start: 49 @3276 has 5 MA's), (55, 3288), (89, 3375), (Start: 149 @3480 has 8 MA's), (173, 3522), (206, 3579), (237, 3636), (253, 3669), (279, 3735), (282, 3738), (299, 3768),

Gene: Brunswick_62 Start: 43890, Stop: 44189, Start Num: 147

Candidate Starts for Brunswick_62:

(Start: 147 @43890 has 153 MA's), (244, 44022), (246, 44025), (311, 44124),

Gene: Brunswick_67 Start: 45626, Stop: 45928, Start Num: 147

Candidate Starts for Brunswick_67:

(54, 45431), (58, 45440), (66, 45455), (77, 45488), (95, 45533), (105, 45557), (107, 45560), (Start: 147 @45626 has 153 MA's), (239, 45755),

Gene: Burwell21_90 Start: 53003, Stop: 53284, Start Num: 153

Candidate Starts for Burwell21_90:

(17, 52592), (20, 52613), (22, 52634), (24, 52664), (Start: 153 @53003 has 40 MA's), (178, 53048), (203, 53066), (294, 53183),

Gene: ByChance_87 Start: 49075, Stop: 49356, Start Num: 153

Candidate Starts for ByChance_87:

(17, 48664), (20, 48685), (22, 48706), (24, 48736), (Start: 153 @49075 has 40 MA's), (178, 49120), (203, 49138), (294, 49255),

Gene: CWormy_2 Start: 479, Stop: 808, Start Num: 147

Candidate Starts for CWormy_2:

(Start: 147 @479 has 153 MA's), (192, 545), (279, 686), (294, 713), (303, 725),

Gene: Cabrinians_93 Start: 52638, Stop: 52919, Start Num: 153

Candidate Starts for Cabrinians_93:

(17, 52227), (20, 52248), (22, 52269), (24, 52299), (Start: 153 @52638 has 40 MA's), (178, 52683), (203, 52701), (294, 52818),

Gene: CandC_55 Start: 37729, Stop: 37433, Start Num: 142

Candidate Starts for CandC_55:

(19, 38122), (23, 38068), (34, 37984), (119, 37759), (Start: 135 @37732 has 1 MA's), (Start: 142 @37729 has 7 MA's), (Start: 153 @37717 has 40 MA's), (168, 37693), (178, 37678), (206, 37630), (220, 37621), (274, 37585), (294, 37543), (307, 37522),

Gene: Cantare_94 Start: 71064, Stop: 71369, Start Num: 151

Candidate Starts for Cantare_94:

(Start: 151 @71064 has 1 MA's), (294, 71268), (323, 71337),

Gene: CapnMurica_59 Start: 44782, Stop: 45072, Start Num: 147

Candidate Starts for CapnMurica_59:

(Start: 147 @44782 has 153 MA's), (244, 44914), (246, 44917),

Gene: CapnMurica_63 Start: 46364, Stop: 46666, Start Num: 147

Candidate Starts for CapnMurica_63:

(54, 46172), (73, 46217), (74, 46220), (77, 46229), (105, 46298), (Start: 147 @46364 has 153 MA's), (239, 46493),

Gene: Carcharodon_55 Start: 36177, Stop: 36665, Start Num: 49

Candidate Starts for Carcharodon_55:

(Start: 49 @36177 has 5 MA's), (68, 36213), (Start: 88 @36267 has 5 MA's), (185, 36420), (188, 36423), (210, 36450), (294, 36561), (299, 36567), (330, 36654),

Gene: Cardigan_139 Start: 79014, Stop: 79379, Start Num: 163

Candidate Starts for Cardigan_139:

(Start: 163 @79014 has 3 MA's), (180, 79044), (188, 79059), (192, 79065), (Start: 208 @79089 has 1 MA's), (243, 79149), (292, 79257), (294, 79260), (333, 79365),

Gene: Cardigan_140 Start: 79376, Stop: 79711, Start Num: 157

Candidate Starts for Cardigan_140:

(115, 79316), (Start: 157 @79376 has 4 MA's), (197, 79445), (206, 79460), (259, 79544), (273, 79571), (300, 79610),

Gene: CastorTray_69 Start: 46412, Stop: 46675, Start Num: 147

Candidate Starts for CastorTray_69:

(64, 46238), (67, 46244), (69, 46247), (100, 46334), (109, 46349), (Start: 147 @46412 has 153 MA's), (207, 46490), (323, 46649),

Gene: CastorTray_65 Start: 44782, Stop: 45075, Start Num: 147

Candidate Starts for CastorTray_65:

(Start: 147 @44782 has 153 MA's), (246, 44920),

Gene: Caterpillar_61 Start: 43710, Stop: 44000, Start Num: 147

Candidate Starts for Caterpillar_61:

(Start: 147 @43710 has 153 MA's), (232, 43827), (244, 43842), (246, 43845),

Gene: Caterpillar_65 Start: 45261, Stop: 45530, Start Num: 147

Candidate Starts for Caterpillar_65:

(54, 45066), (66, 45090), (95, 45165), (102, 45183), (105, 45189), (118, 45216), (Start: 147 @45261 has 153 MA's), (207, 45345), (228, 45375),

Gene: Causa_146 Start: 84210, Stop: 83881, Start Num: 181

Candidate Starts for Causa_146:

(Start: 181 @84210 has 2 MA's), (216, 84153), (279, 84015), (292, 83991), (314, 83943),

Gene: Cheesy_40 Start: 28725, Stop: 29033, Start Num: 147

Candidate Starts for Cheesy_40:

(Start: 147 @28725 has 153 MA's), (202, 28809),

Gene: Cheesy_73 Start: 44267, Stop: 44575, Start Num: 143

Candidate Starts for Cheesy_73:

(Start: 143 @44267 has 26 MA's), (218, 44369), (257, 44405), (290, 44468), (310, 44498),

Gene: CherryCola_80 Start: 53607, Stop: 53978, Start Num: 152

Candidate Starts for CherryCola_80:

(61, 53424), (Start: 152 @53607 has 32 MA's), (294, 53784), (308, 53808),

Gene: Chlochlo_65 Start: 44198, Stop: 44491, Start Num: 147

Candidate Starts for Chlochlo_65:

(Start: 147 @44198 has 153 MA's),

Gene: Chlochlo_70 Start: 45962, Stop: 46234, Start Num: 147

Candidate Starts for Chlochlo_70:

(Start: 147 @45962 has 153 MA's), (289, 46142),

Gene: Circum_42 Start: 29385, Stop: 29693, Start Num: 147

Candidate Starts for Circum_42:

(Start: 147 @29385 has 153 MA's),

Gene: Circum_74 Start: 44882, Stop: 45193, Start Num: 143

Candidate Starts for Circum_74:

(Start: 143 @44882 has 26 MA's), (184, 44945), (257, 45023), (266, 45044), (281, 45068), (290, 45086), (310, 45116),

Gene: ClamChowder_83 Start: 53513, Stop: 53983, Start Num: 152

Candidate Starts for ClamChowder_83:

(42, 53279), (51, 53306), (53, 53309), (Start: 152 @53513 has 32 MA's), (178, 53561), (223, 53645), (294, 53789),

Gene: Clifton_88 Start: 51692, Stop: 51973, Start Num: 153

Candidate Starts for Clifton_88:

(17, 51281), (20, 51302), (22, 51323), (24, 51353), (Start: 153 @51692 has 40 MA's), (178, 51737), (203, 51755), (294, 51872),

Gene: Clown_82 Start: 53661, Stop: 54005, Start Num: 152

Candidate Starts for Clown_82:

(Start: 152 @53661 has 32 MA's), (178, 53709), (242, 53778), (283, 53832), (288, 53841), (335, 53973), (337, 53982),

Gene: Constance_64 Start: 41355, Stop: 41633, Start Num: 148

Candidate Starts for Constance_64:

(1, 39963), (2, 39996), (3, 40005), (4, 40026), (5, 40035), (6, 40104), (7, 40203), (8, 40368), (9, 40506), (10, 40698), (11, 40722), (14, 40857), (18, 40944), (43, 41130), (56, 41163), (94, 41259), (Start: 148 @41355 has 2 MA's), (292, 41529), (294, 41532), (313, 41568), (329, 41622),

Gene: Correa_71 Start: 43841, Stop: 44149, Start Num: 143

Candidate Starts for Correa_71:

(Start: 143 @43841 has 26 MA's), (218, 43943), (257, 43979), (290, 44042), (310, 44072),

Gene: Correa_38 Start: 27913, Stop: 28218, Start Num: 147

Candidate Starts for Correa_38:

(Start: 147 @27913 has 153 MA's), (202, 27997), (231, 28039), (273, 28102),

Gene: CoveyB_81 Start: 53099, Stop: 53470, Start Num: 152

Candidate Starts for CoveyB_81:

(61, 52916), (Start: 152 @53099 has 32 MA's), (294, 53276), (308, 53300),

Gene: Crocheter_2 Start: 479, Stop: 808, Start Num: 147

Candidate Starts for Crocheter_2:

(Start: 147 @479 has 153 MA's), (192, 545), (279, 686), (294, 713), (303, 725),

Gene: Crumble_91 Start: 49362, Stop: 49643, Start Num: 153

Candidate Starts for Crumble_91:

(17, 48951), (20, 48972), (22, 48993), (24, 49023), (Start: 153 @49362 has 40 MA's), (178, 49407), (203, 49425), (294, 49542),

Gene: Danyall_81 Start: 52793, Stop: 53164, Start Num: 152

Candidate Starts for Danyall_81:

(61, 52610), (Start: 152 @52793 has 32 MA's), (294, 52970), (308, 52994),

Gene: Darby_60 Start: 43828, Stop: 44121, Start Num: 147

Candidate Starts for Darby_60:

(Start: 147 @43828 has 153 MA's), (246, 43966),

Gene: Darby_64 Start: 45407, Stop: 45670, Start Num: 147

Candidate Starts for Darby_64:

(Start: 147 @45407 has 153 MA's), (207, 45485), (269, 45545), (323, 45644),

Gene: DatBoi_51 Start: 43635, Stop: 43889, Start Num: 149

Candidate Starts for DatBoi_51:

(Start: 149 @43635 has 8 MA's), (170, 43674), (294, 43791),

Gene: DevitoJr_61 Start: 44214, Stop: 44507, Start Num: 147

Candidate Starts for DevitoJr_61:

(Start: 147 @44214 has 153 MA's), (246, 44352),

Gene: DevitoJr_65 Start: 45793, Stop: 46056, Start Num: 147

Candidate Starts for DevitoJr_65:

(Start: 147 @45793 has 153 MA's), (207, 45871), (323, 46030),

Gene: Dialga_2 Start: 479, Stop: 808, Start Num: 147

Candidate Starts for Dialga_2:

(Start: 147 @479 has 153 MA's), (192, 545), (279, 686), (294, 713), (303, 725),

Gene: Dinallo_64 Start: 46677, Stop: 46940, Start Num: 147

Candidate Starts for Dinallo_64:

(54, 46482), (73, 46527), (74, 46530), (82, 46557), (84, 46560), (93, 46581), (103, 46605), (105, 46608), (Start: 147 @46677 has 153 MA's), (317, 46899), (323, 46914),

Gene: Dinallo_60 Start: 45092, Stop: 45382, Start Num: 147

Candidate Starts for Dinallo_60:

(Start: 147 @45092 has 153 MA's), (244, 45224), (246, 45227),

Gene: Djungelskog_67 Start: 43963, Stop: 44292, Start Num: 147
Candidate Starts for Djungelskog_67:
(Start: 147 @43963 has 153 MA's), (244, 44107), (256, 44128), (318, 44251),

Gene: DoctorPepper_67 Start: 43665, Stop: 43994, Start Num: 147
Candidate Starts for DoctorPepper_67:
(Start: 147 @43665 has 153 MA's), (244, 43809), (256, 43830), (318, 43953),

Gene: Dodo_211 Start: 115242, Stop: 114925, Start Num: 143
Candidate Starts for Dodo_211:
(Start: 143 @115242 has 26 MA's), (221, 115140), (241, 115125), (272, 115086), (294, 115047), (319, 114990), (336, 114930),

Gene: DogYard_8 Start: 3331, Stop: 3738, Start Num: 141
Candidate Starts for DogYard_8:
(Start: 141 @3331 has 15 MA's), (173, 3382), (178, 3391), (225, 3478), (251, 3526), (277, 3592), (288, 3610), (299, 3628),

Gene: Dori_58 Start: 47703, Stop: 48095, Start Num: 92
Candidate Starts for Dori_58:
(79, 47673), (Start: 92 @47703 has 2 MA's), (118, 47751), (185, 47850), (188, 47853), (210, 47880), (294, 47991), (299, 47997),

Gene: DrLupo_104 Start: 65399, Stop: 65650, Start Num: 208
Candidate Starts for DrLupo_104:
(117, 65246), (130, 65267), (183, 65360), (Start: 208 @65399 has 1 MA's), (294, 65552), (299, 65558),

Gene: DreamCatcher_12 Start: 7365, Stop: 7679, Start Num: 156
Candidate Starts for DreamCatcher_12:
(Start: 156 @7365 has 21 MA's), (178, 7404), (194, 7413), (234, 7482), (282, 7557), (313, 7617),

Gene: Dynamite_40 Start: 28937, Stop: 29245, Start Num: 147
Candidate Starts for Dynamite_40:
(Start: 147 @28937 has 153 MA's), (192, 29009),

Gene: Dynamite_72 Start: 44325, Stop: 44636, Start Num: 143
Candidate Starts for Dynamite_72:
(Start: 143 @44325 has 26 MA's), (184, 44388), (257, 44466), (266, 44487), (281, 44511), (290, 44529), (310, 44559),

Gene: Dynamix_11 Start: 6722, Stop: 7036, Start Num: 156
Candidate Starts for Dynamix_11:
(Start: 156 @6722 has 21 MA's), (178, 6761), (194, 6770), (234, 6839), (282, 6914), (313, 6974),

Gene: EGUnicorn_51 Start: 35104, Stop: 35502, Start Num: 88
Candidate Starts for EGUnicorn_51:
(Start: 49 @35014 has 5 MA's), (68, 35050), (Start: 88 @35104 has 5 MA's), (185, 35257), (188, 35260), (210, 35287), (294, 35398), (299, 35404), (330, 35491),

Gene: ERHickory_13 Start: 5618, Stop: 5839, Start Num: 170
Candidate Starts for ERHickory_13:
(Start: 158 @5594 has 2 MA's), (170, 5618), (294, 5738),

Gene: Egad_68 Start: 43939, Stop: 44268, Start Num: 147
Candidate Starts for Egad_68:
(Start: 147 @43939 has 153 MA's), (244, 44083), (256, 44104), (318, 44227),

Gene: Egi03_79 Start: 52659, Stop: 53000, Start Num: 152
Candidate Starts for Egi03_79:
(Start: 152 @52659 has 32 MA's), (292, 52803), (294, 52806),

Gene: ElephantMan_66 Start: 46256, Stop: 46558, Start Num: 147
Candidate Starts for ElephantMan_66:
(54, 46061), (73, 46106), (74, 46109), (77, 46118), (82, 46136), (Start: 92 @46157 has 2 MA's), (93, 46160), (95, 46163), (105, 46187), (Start: 147 @46256 has 153 MA's), (239, 46385),

Gene: ElephantMan_61 Start: 44520, Stop: 44819, Start Num: 147
Candidate Starts for ElephantMan_61:
(Start: 147 @44520 has 153 MA's), (244, 44652), (246, 44655), (311, 44754),

Gene: Elsa_41 Start: 29295, Stop: 29603, Start Num: 147
Candidate Starts for Elsa_41:
(Start: 147 @29295 has 153 MA's),

Gene: Elsa_72 Start: 44474, Stop: 44782, Start Num: 143
Candidate Starts for Elsa_72:
(Start: 143 @44474 has 26 MA's), (218, 44576), (257, 44612), (290, 44675), (310, 44705),

Gene: Elver_233 Start: 104942, Stop: 105232, Start Num: 174
Candidate Starts for Elver_233:
(Start: 174 @104942 has 4 MA's), (186, 104969), (225, 105026), (324, 105206), (328, 105221),

Gene: Elver_133 Start: 70843, Stop: 71208, Start Num: 147
Candidate Starts for Elver_133:
(102, 70765), (Start: 147 @70843 has 153 MA's), (224, 70954), (279, 71029), (308, 71080),

Gene: Elver_180 Start: 88404, Stop: 88703, Start Num: 147
Candidate Starts for Elver_180:
(Start: 147 @88404 has 153 MA's), (289, 88590), (330, 88686),

Gene: Elver_164 Start: 81584, Stop: 81901, Start Num: 147
Candidate Starts for Elver_164:
(Start: 98 @81500 has 1 MA's), (111, 81524), (Start: 147 @81584 has 153 MA's), (207, 81671), (255, 81743), (310, 81830), (317, 81857),

Gene: Elver_124 Start: 67517, Stop: 67825, Start Num: 147
Candidate Starts for Elver_124:
(Start: 147 @67517 has 153 MA's), (178, 67562), (203, 67601), (269, 67697),

Gene: Elver_123 Start: 67170, Stop: 67514, Start Num: 140
Candidate Starts for Elver_123:
(Start: 140 @67170 has 4 MA's), (293, 67416), (296, 67419),

Gene: Elver_125 Start: 67822, Stop: 68235, Start Num: 110
Candidate Starts for Elver_125:

(Start: 110 @67822 has 4 MA's), (Start: 152 @67888 has 32 MA's), (162, 67906), (173, 67921), (263, 68062), (310, 68131),

Gene: Erasmago_204 Start: 109961, Stop: 109605, Start Num: 143

Candidate Starts for Erasmago_204:

(129, 109982), (Start: 143 @109961 has 26 MA's), (159, 109949), (339, 109631), (340, 109616),

Gene: Evamon_80 Start: 53024, Stop: 53377, Start Num: 152

Candidate Starts for Evamon_80:

(Start: 152 @53024 has 32 MA's), (313, 53219),

Gene: Faust_71 Start: 56000, Stop: 56389, Start Num: 121

Candidate Starts for Faust_71:

(Start: 121 @56000 has 7 MA's), (179, 56087), (184, 56096), (226, 56168), (231, 56174), (326, 56351), (327, 56360),

Gene: Fenn_11 Start: 6952, Stop: 7266, Start Num: 156

Candidate Starts for Fenn_11:

(Start: 156 @6952 has 21 MA's), (178, 6991), (234, 7069), (265, 7114),

Gene: Forrestell_8 Start: 3035, Stop: 3442, Start Num: 141

Candidate Starts for Forrestell_8:

(Start: 141 @3035 has 15 MA's), (173, 3086), (178, 3095), (225, 3182), (251, 3230), (277, 3296), (288, 3314), (299, 3332),

Gene: Fransoyer_60 Start: 45317, Stop: 45054, Start Num: 158

Candidate Starts for Fransoyer_60:

(Start: 158 @45317 has 2 MA's), (173, 45290), (201, 45269), (294, 45158), (313, 45122), (330, 45065),

Gene: FreddyB_106 Start: 54284, Stop: 54565, Start Num: 153

Candidate Starts for FreddyB_106:

(17, 53873), (20, 53894), (22, 53915), (24, 53945), (Start: 153 @54284 has 40 MA's), (178, 54329), (203, 54347), (294, 54464),

Gene: Fugax_84 Start: 53505, Stop: 53975, Start Num: 152

Candidate Starts for Fugax_84:

(42, 53271), (51, 53298), (53, 53301), (Start: 152 @53505 has 32 MA's), (178, 53553), (223, 53637), (294, 53781),

Gene: G4_46 Start: 30222, Stop: 30545, Start Num: 166

Candidate Starts for G4_46:

(Start: 143 @30180 has 26 MA's), (Start: 166 @30222 has 1 MA's), (171, 30228), (203, 30276), (219, 30312), (265, 30378), (282, 30408), (294, 30432),

Gene: GMA2_84 Start: 80351, Stop: 80010, Start Num: 145

Candidate Starts for GMA2_84:

(Start: 145 @80351 has 2 MA's), (Start: 156 @80342 has 21 MA's), (279, 80141), (282, 80138), (330, 80021),

Gene: GMA4_42 Start: 31658, Stop: 32065, Start Num: 86

Candidate Starts for GMA4_42:

(47, 31565), (86, 31658), (118, 31715), (185, 31823), (210, 31853), (235, 31877), (259, 31901), (277, 31934), (323, 32033),

Gene: Gandionco_179 Start: 87798, Stop: 88097, Start Num: 147

Candidate Starts for Gandionco_179:

(Start: 147 @87798 has 153 MA's), (289, 87984), (330, 88080),

Gene: Gandionco_120 Start: 65982, Stop: 66326, Start Num: 140

Candidate Starts for Gandionco_120:

(Start: 140 @65982 has 4 MA's), (293, 66228), (296, 66231),

Gene: Gandionco_121 Start: 66329, Stop: 66637, Start Num: 147

Candidate Starts for Gandionco_121:

(Start: 147 @66329 has 153 MA's), (178, 66374), (203, 66413), (269, 66509),

Gene: Gandionco_122 Start: 66634, Stop: 67047, Start Num: 110

Candidate Starts for Gandionco_122:

(Start: 110 @66634 has 4 MA's), (Start: 152 @66700 has 32 MA's), (162, 66718), (173, 66733), (263, 66874), (310, 66943),

Gene: Gandionco_129 Start: 69661, Stop: 70026, Start Num: 147

Candidate Starts for Gandionco_129:

(102, 69583), (Start: 147 @69661 has 153 MA's), (224, 69772), (279, 69847), (308, 69898),

Gene: Gandionco_233 Start: 104689, Stop: 104979, Start Num: 174

Candidate Starts for Gandionco_233:

(Start: 174 @104689 has 4 MA's), (186, 104716), (225, 104773), (324, 104953), (328, 104968),

Gene: Gandionco_160 Start: 80664, Stop: 80981, Start Num: 147

Candidate Starts for Gandionco_160:

(Start: 98 @80580 has 1 MA's), (111, 80604), (Start: 147 @80664 has 153 MA's), (207, 80751), (255, 80823), (310, 80910), (317, 80937),

Gene: GantcherGoblin_66 Start: 43022, Stop: 43303, Start Num: 147

Candidate Starts for GantcherGoblin_66:

(Start: 147 @43022 has 153 MA's), (160, 43028), (Start: 174 @43049 has 4 MA's), (201, 43094), (229, 43130), (320, 43259),

Gene: GermyBearimy_74 Start: 45364, Stop: 45669, Start Num: 147

Candidate Starts for GermyBearimy_74:

(Start: 147 @45364 has 153 MA's), (207, 45451), (262, 45520), (268, 45532), (283, 45553),

Gene: GermyBearimy_79 Start: 47156, Stop: 47434, Start Num: 147

Candidate Starts for GermyBearimy_79:

(111, 47096), (133, 47138), (Start: 147 @47156 has 153 MA's), (284, 47327), (286, 47330), (310, 47363),

Gene: Gex_56 Start: 36283, Stop: 36681, Start Num: 88

Candidate Starts for Gex_56:

(Start: 49 @36193 has 5 MA's), (68, 36229), (Start: 88 @36283 has 5 MA's), (185, 36436), (188, 36439), (210, 36466), (294, 36577), (299, 36583), (330, 36670),

Gene: Gezellig_77 Start: 52852, Stop: 53223, Start Num: 152

Candidate Starts for Gezellig_77:

(61, 52669), (Start: 152 @52852 has 32 MA's), (294, 53029), (308, 53053),

Gene: Giantsbane_69 Start: 44963, Stop: 45232, Start Num: 147
Candidate Starts for Giantsbane_69:
(Start: 147 @44963 has 153 MA's), (217, 45056), (289, 45140), (323, 45206),

Gene: Giantsbane_65 Start: 43403, Stop: 43696, Start Num: 147
Candidate Starts for Giantsbane_65:
(Start: 147 @43403 has 153 MA's), (Start: 174 @43433 has 4 MA's),

Gene: GoCrazy_39 Start: 28863, Stop: 29171, Start Num: 147
Candidate Starts for GoCrazy_39:
(Start: 147 @28863 has 153 MA's),

Gene: GoCrazy_69 Start: 43769, Stop: 44080, Start Num: 143
Candidate Starts for GoCrazy_69:
(Start: 143 @43769 has 26 MA's), (184, 43832), (257, 43910), (266, 43931), (281, 43955), (290, 43973), (310, 44003),

Gene: GodPhather_6 Start: 3283, Stop: 3579, Start Num: 152
Candidate Starts for GodPhather_6:
(Start: 152 @3283 has 32 MA's), (206, 3376), (215, 3391), (294, 3481), (308, 3505), (313, 3517),

Gene: Gordon_59 Start: 44700, Stop: 44999, Start Num: 147
Candidate Starts for Gordon_59:
(Start: 147 @44700 has 153 MA's), (244, 44832), (246, 44835), (311, 44934),

Gene: Gordon_63 Start: 46285, Stop: 46548, Start Num: 147
Candidate Starts for Gordon_63:
(Start: 147 @46285 has 153 MA's), (207, 46363), (323, 46522),

Gene: Gorge_95 Start: 53911, Stop: 54192, Start Num: 153
Candidate Starts for Gorge_95:
(17, 53500), (20, 53521), (22, 53542), (24, 53572), (Start: 153 @53911 has 40 MA's), (178, 53956), (203, 53974), (294, 54091),

Gene: Greely_244 Start: 137695, Stop: 138051, Start Num: 175
Candidate Starts for Greely_244:
(32, 137374), (62, 137473), (78, 137515), (Start: 175 @137695 has 3 MA's), (205, 137746), (249, 137821), (250, 137824), (273, 137854), (275, 137863), (294, 137905), (299, 137911), (305, 137920), (308, 137929),

Gene: Halo3_78 Start: 53437, Stop: 53808, Start Num: 152
Candidate Starts for Halo3_78:
(61, 53254), (Start: 152 @53437 has 32 MA's), (294, 53614), (308, 53638),

Gene: Hankly_72 Start: 43963, Stop: 44274, Start Num: 143
Candidate Starts for Hankly_72:
(Start: 143 @43963 has 26 MA's), (184, 44026), (257, 44104), (266, 44125), (281, 44149), (290, 44167), (310, 44197),

Gene: Hankly_40 Start: 28408, Stop: 28716, Start Num: 147
Candidate Starts for Hankly_40:
(Start: 147 @28408 has 153 MA's),

Gene: Heisenberger_71 Start: 43731, Stop: 44042, Start Num: 143
Candidate Starts for Heisenberger_71:
(Start: 143 @43731 has 26 MA's), (184, 43794), (257, 43872), (266, 43893), (281, 43917), (290, 43935), (310, 43965),

Gene: Heisenberger_40 Start: 28736, Stop: 29044, Start Num: 147
Candidate Starts for Heisenberger_40:
(Start: 147 @28736 has 153 MA's),

Gene: Hemma_60 Start: 41293, Stop: 41586, Start Num: 147
Candidate Starts for Hemma_60:
(Start: 147 @41293 has 153 MA's), (227, 41407), (244, 41428), (266, 41455),

Gene: Hemma_66 Start: 43757, Stop: 44077, Start Num: 157
Candidate Starts for Hemma_66:
(Start: 157 @43757 has 4 MA's), (263, 43934), (278, 43958), (316, 44030),

Gene: Hemma_65 Start: 43443, Stop: 43751, Start Num: 147
Candidate Starts for Hemma_65:
(Start: 147 @43443 has 153 MA's), (187, 43500), (280, 43638), (295, 43665), (315, 43701), (325, 43725),

Gene: HerbBucket_66 Start: 43671, Stop: 44000, Start Num: 147
Candidate Starts for HerbBucket_66:
(Start: 147 @43671 has 153 MA's), (244, 43815), (256, 43836), (318, 43959),

Gene: HomeFry_78 Start: 53143, Stop: 52757, Start Num: 98
Candidate Starts for HomeFry_78:
(15, 53527), (Start: 98 @53143 has 1 MA's), (176, 53014), (185, 52996), (210, 52966),

Gene: Hortihabitatio_2 Start: 447, Stop: 776, Start Num: 147
Candidate Starts for Hortihabitatio_2:
(90, 342), (126, 414), (Start: 147 @447 has 153 MA's), (192, 513), (279, 654), (292, 678), (294, 681), (303, 693),

Gene: Ichabod_11 Start: 6739, Stop: 7011, Start Num: 152
Candidate Starts for Ichabod_11:
(Start: 152 @6739 has 32 MA's), (178, 6778), (203, 6796), (272, 6874), (294, 6913),

Gene: Ingrid_68 Start: 44584, Stop: 44877, Start Num: 147
Candidate Starts for Ingrid_68:
(Start: 147 @44584 has 153 MA's), (244, 44719), (266, 44746),

Gene: Ingrid_72 Start: 46231, Stop: 46503, Start Num: 147
Candidate Starts for Ingrid_72:
(Start: 147 @46231 has 153 MA's), (201, 46303), (289, 46411), (323, 46477),

Gene: Inked_67 Start: 45260, Stop: 45550, Start Num: 147
Candidate Starts for Inked_67:
(Start: 147 @45260 has 153 MA's), (232, 45377), (244, 45392), (246, 45395), (291, 45452), (312, 45488),

Gene: Inked_71 Start: 46836, Stop: 47096, Start Num: 147

Candidate Starts for Inked_71:

(Start: 147 @46836 has 153 MA's), (196, 46902), (203, 46911), (224, 46944), (307, 47016),

Gene: Issa_64 Start: 45459, Stop: 45722, Start Num: 147

Candidate Starts for Issa_64:

(54, 45267), (73, 45312), (74, 45315), (77, 45324), (105, 45393), (Start: 147 @45459 has 153 MA's), (317, 45681), (323, 45696),

Gene: Issa_60 Start: 43876, Stop: 44166, Start Num: 147

Candidate Starts for Issa_60:

(Start: 147 @43876 has 153 MA's), (244, 44008), (246, 44011),

Gene: JEGGS_71 Start: 43810, Stop: 44121, Start Num: 143

Candidate Starts for JEGGS_71:

(Start: 143 @43810 has 26 MA's), (184, 43873), (257, 43951), (266, 43972), (281, 43996), (290, 44014), (310, 44044),

Gene: JEGGS_40 Start: 28790, Stop: 29098, Start Num: 147

Candidate Starts for JEGGS_40:

(Start: 147 @28790 has 153 MA's), (177, 28835),

Gene: James_100 Start: 55293, Stop: 55574, Start Num: 153

Candidate Starts for James_100:

(17, 54882), (20, 54903), (22, 54924), (24, 54954), (Start: 153 @55293 has 40 MA's), (178, 55338), (203, 55356), (294, 55473),

Gene: Jacob_99 Start: 54892, Stop: 55173, Start Num: 153

Candidate Starts for Jacob_99:

(17, 54481), (20, 54502), (22, 54523), (24, 54553), (Start: 153 @54892 has 40 MA's), (178, 54937), (203, 54955), (294, 55072),

Gene: Jazzy4900_69 Start: 46463, Stop: 46738, Start Num: 147

Candidate Starts for Jazzy4900_69:

(Start: 147 @46463 has 153 MA's), (269, 46610), (284, 46631), (286, 46634), (289, 46643), (295, 46652), (310, 46667), (317, 46694),

Gene: Jazzy4900_65 Start: 44572, Stop: 44859, Start Num: 147

Candidate Starts for Jazzy4900_65:

(Start: 147 @44572 has 153 MA's), (289, 44758), (308, 44788), (310, 44791),

Gene: JeNeSaisPas_130 Start: 70257, Stop: 70622, Start Num: 147

Candidate Starts for JeNeSaisPas_130:

(102, 70179), (Start: 147 @70257 has 153 MA's), (224, 70368), (279, 70443), (308, 70494),

Gene: JeNeSaisPas_164 Start: 81260, Stop: 81577, Start Num: 147

Candidate Starts for JeNeSaisPas_164:

(Start: 98 @81176 has 1 MA's), (111, 81200), (Start: 147 @81260 has 153 MA's), (207, 81347), (255, 81419), (310, 81506), (317, 81533),

Gene: JeNeSaisPas_235 Start: 104699, Stop: 104989, Start Num: 174

Candidate Starts for JeNeSaisPas_235:

(Start: 174 @104699 has 4 MA's), (225, 104783), (324, 104963), (328, 104978),

Gene: JeNeSaisPas_120 Start: 66584, Stop: 66928, Start Num: 140

Candidate Starts for JeNeSaisPas_120:

(Start: 140 @66584 has 4 MA's), (293, 66830), (296, 66833),

Gene: JeNeSaisPas_121 Start: 66931, Stop: 67239, Start Num: 147

Candidate Starts for JeNeSaisPas_121:

(Start: 147 @66931 has 153 MA's), (178, 66976), (203, 67015), (269, 67111),

Gene: JeNeSaisPas_182 Start: 88525, Stop: 88824, Start Num: 147

Candidate Starts for JeNeSaisPas_182:

(Start: 147 @88525 has 153 MA's), (289, 88711), (330, 88807),

Gene: JeNeSaisPas_122 Start: 67236, Stop: 67649, Start Num: 110

Candidate Starts for JeNeSaisPas_122:

(Start: 110 @67236 has 4 MA's), (Start: 152 @67302 has 32 MA's), (162, 67320), (173, 67335), (263, 67476), (310, 67545),

Gene: JeanGrey_20 Start: 10459, Stop: 10809, Start Num: 139

Candidate Starts for JeanGrey_20:

(Start: 139 @10459 has 1 MA's),

Gene: Jennelsea_94 Start: 52193, Stop: 52474, Start Num: 153

Candidate Starts for Jennelsea_94:

(17, 51782), (20, 51803), (22, 51824), (24, 51854), (Start: 153 @52193 has 40 MA's), (178, 52238), (203, 52256), (294, 52373), (313, 52409),

Gene: Jeremy4pt0_67 Start: 43660, Stop: 43989, Start Num: 147

Candidate Starts for Jeremy4pt0_67:

(Start: 147 @43660 has 153 MA's), (244, 43804), (256, 43825), (318, 43948),

Gene: JohnPork_82 Start: 52908, Stop: 53279, Start Num: 152

Candidate Starts for JohnPork_82:

(61, 52725), (Start: 152 @52908 has 32 MA's), (294, 53085), (308, 53109),

Gene: JonJames_139 Start: 79256, Stop: 79624, Start Num: 163

Candidate Starts for JonJames_139:

(Start: 163 @79256 has 3 MA's), (180, 79286), (188, 79301), (192, 79307), (Start: 208 @79331 has 1 MA's), (236, 79382), (292, 79502), (294, 79505), (308, 79529), (333, 79610),

Gene: JonJames_140 Start: 79621, Stop: 79956, Start Num: 157

Candidate Starts for JonJames_140:

(Start: 157 @79621 has 4 MA's), (197, 79690), (206, 79705), (259, 79789), (273, 79816), (300, 79855),

Gene: KSSJEB_10 Start: 6483, Stop: 6797, Start Num: 156

Candidate Starts for KSSJEB_10:

(Start: 138 @6456 has 1 MA's), (Start: 156 @6483 has 21 MA's), (178, 6522), (194, 6531), (234, 6600), (282, 6675), (313, 6735),

Gene: Kardesai_72 Start: 44083, Stop: 44394, Start Num: 143

Candidate Starts for Kardesai_72:

(Start: 143 @44083 has 26 MA's), (184, 44146), (257, 44224), (266, 44245), (281, 44269), (290, 44287), (310, 44317),

Gene: Kardesai_42 Start: 29456, Stop: 29764, Start Num: 147

Candidate Starts for Kardesai_42:

(Start: 147 @29456 has 153 MA's), (192, 29528),

Gene: KeaneyLin_39 Start: 28863, Stop: 29171, Start Num: 147

Candidate Starts for KeaneyLin_39:

(Start: 147 @28863 has 153 MA's),

Gene: KeaneyLin_68 Start: 43769, Stop: 44080, Start Num: 143

Candidate Starts for KeaneyLin_68:

(Start: 143 @43769 has 26 MA's), (184, 43832), (257, 43910), (266, 43931), (281, 43955), (290, 43973), (310, 44003),

Gene: Kelcole_54 Start: 37921, Stop: 37628, Start Num: 142

Candidate Starts for Kelcole_54:

(119, 37951), (Start: 135 @37924 has 1 MA's), (Start: 142 @37921 has 7 MA's), (Start: 153 @37909 has 40 MA's), (178, 37870), (179, 37867), (200, 37834), (206, 37822), (220, 37813), (294, 37735), (307, 37714), (313, 37699),

Gene: KevinMinion_66 Start: 43917, Stop: 44198, Start Num: 147

Candidate Starts for KevinMinion_66:

(Start: 147 @43917 has 153 MA's), (Start: 174 @43944 has 4 MA's), (229, 44025), (267, 44064), (278, 44079), (295, 44109), (320, 44154),

Gene: KillerQueen_57 Start: 38171, Stop: 37878, Start Num: 142

Candidate Starts for KillerQueen_57:

(119, 38201), (Start: 135 @38174 has 1 MA's), (Start: 142 @38171 has 7 MA's), (Start: 153 @38159 has 40 MA's), (178, 38120), (179, 38117), (200, 38084), (206, 38072), (220, 38063), (294, 37985), (307, 37964), (313, 37949),

Gene: KimmyK_80 Start: 53299, Stop: 53670, Start Num: 152

Candidate Starts for KimmyK_80:

(61, 53116), (Start: 152 @53299 has 32 MA's), (294, 53476), (308, 53500),

Gene: Kinny_71 Start: 45135, Stop: 45440, Start Num: 147

Candidate Starts for Kinny_71:

(Start: 147 @45135 has 153 MA's), (Start: 174 @45165 has 4 MA's), (198, 45207), (287, 45333), (321, 45411),

Gene: Koella_89 Start: 50055, Stop: 50336, Start Num: 153

Candidate Starts for Koella_89:

(17, 49644), (20, 49665), (22, 49686), (24, 49716), (Start: 153 @50055 has 40 MA's), (178, 50100), (203, 50118), (294, 50235),

Gene: Kubulix_9 Start: 3460, Stop: 3867, Start Num: 141

Candidate Starts for Kubulix_9:

(Start: 141 @3460 has 15 MA's), (173, 3511), (178, 3520), (225, 3607), (251, 3655), (277, 3721), (288, 3739), (299, 3757),

Gene: Kudfre_118 Start: 64805, Stop: 65071, Start Num: 169

Candidate Starts for Kudfre_118:

(101, 64688), (Start: 169 @64805 has 4 MA's), (301, 64979), (329, 65060),

Gene: Kureo_230 Start: 103280, Stop: 103570, Start Num: 174

Candidate Starts for Kureo_230:

(Start: 174 @103280 has 4 MA's), (225, 103364), (324, 103544), (328, 103559),

Gene: Kureo_178 Start: 87235, Stop: 87534, Start Num: 147

Candidate Starts for Kureo_178:

(Start: 147 @87235 has 153 MA's), (289, 87421), (330, 87517),

Gene: Kureo_130 Start: 69857, Stop: 70222, Start Num: 147

Candidate Starts for Kureo_130:

(102, 69779), (Start: 147 @69857 has 153 MA's), (224, 69968), (279, 70043), (308, 70094),

Gene: Kureo_121 Start: 66178, Stop: 66522, Start Num: 140

Candidate Starts for Kureo_121:

(Start: 140 @66178 has 4 MA's), (293, 66424), (296, 66427),

Gene: Kureo_122 Start: 66525, Stop: 66833, Start Num: 147

Candidate Starts for Kureo_122:

(Start: 147 @66525 has 153 MA's), (178, 66570), (203, 66609), (269, 66705),

Gene: Kureo_123 Start: 66830, Stop: 67243, Start Num: 110

Candidate Starts for Kureo_123:

(Start: 110 @66830 has 4 MA's), (Start: 152 @66896 has 32 MA's), (162, 66914), (173, 66929), (263, 67070), (310, 67139),

Gene: Kureo_159 Start: 80759, Stop: 81076, Start Num: 147

Candidate Starts for Kureo_159:

(Start: 98 @80675 has 1 MA's), (111, 80699), (Start: 147 @80759 has 153 MA's), (207, 80846), (255, 80918), (310, 81005), (317, 81032),

Gene: Lambo_93 Start: 64770, Stop: 65072, Start Num: 152

Candidate Starts for Lambo_93:

(Start: 128 @64743 has 2 MA's), (132, 64752), (144, 64761), (Start: 152 @64770 has 32 MA's), (178, 64818), (294, 64971), (308, 64995),

Gene: LastJedi_87 Start: 51112, Stop: 51393, Start Num: 153

Candidate Starts for LastJedi_87:

(17, 50701), (20, 50722), (22, 50743), (24, 50773), (Start: 153 @51112 has 40 MA's), (178, 51157), (203, 51175), (294, 51292),

Gene: Latretium_99 Start: 54158, Stop: 54439, Start Num: 153

Candidate Starts for Latretium_99:

(17, 53747), (20, 53768), (22, 53789), (24, 53819), (Start: 153 @54158 has 40 MA's), (178, 54203), (203, 54221), (294, 54338),

Gene: Leathea_68 Start: 42920, Stop: 43210, Start Num: 147

Candidate Starts for Leathea_68:

(Start: 147 @42920 has 153 MA's), (196, 42989), (310, 43139),

Gene: Lewando_71 Start: 44727, Stop: 45032, Start Num: 147

Candidate Starts for Lewando_71:

(Start: 147 @44727 has 153 MA's), (198, 44799), (287, 44925), (321, 45003),

Gene: LilHuddy_66 Start: 44510, Stop: 44803, Start Num: 147

Candidate Starts for LilHuddy_66:

(Start: 147 @44510 has 153 MA's),

Gene: LilHuddy_70 Start: 46088, Stop: 46360, Start Num: 147

Candidate Starts for LilHuddy_70:

(Start: 147 @46088 has 153 MA's), (289, 46268),

Gene: LilMoolah_99 Start: 54092, Stop: 54373, Start Num: 153

Candidate Starts for LilMoolah_99:

(17, 53681), (20, 53702), (22, 53723), (24, 53753), (Start: 153 @54092 has 40 MA's), (178, 54137), (203, 54155), (294, 54272),

Gene: Limpid_66 Start: 53880, Stop: 54281, Start Num: 121

Candidate Starts for Limpid_66:

(Start: 121 @53880 has 7 MA's), (165, 53946), (191, 53991), (209, 54018), (213, 54024), (231, 54060), (248, 54087), (252, 54093), (270, 54129), (302, 54180), (306, 54186),

Gene: Linda_68 Start: 43958, Stop: 44287, Start Num: 147

Candidate Starts for Linda_68:

(Start: 147 @43958 has 153 MA's), (244, 44102), (256, 44123), (318, 44246),

Gene: Lizziana_97 Start: 54360, Stop: 54641, Start Num: 153

Candidate Starts for Lizziana_97:

(17, 53949), (20, 53970), (22, 53991), (24, 54021), (Start: 153 @54360 has 40 MA's), (178, 54405), (203, 54423), (294, 54540),

Gene: LordFarquaad_57 Start: 39016, Stop: 39396, Start Num: 131

Candidate Starts for LordFarquaad_57:

(Start: 131 @39016 has 3 MA's), (164, 39070), (241, 39199), (265, 39235), (279, 39262), (282, 39265), (299, 39295), (308, 39313), (313, 39325), (330, 39382),

Gene: Loretta_69 Start: 46231, Stop: 46503, Start Num: 147

Candidate Starts for Loretta_69:

(Start: 147 @46231 has 153 MA's), (201, 46303), (289, 46411), (323, 46477),

Gene: Loretta_65 Start: 44584, Stop: 44877, Start Num: 147

Candidate Starts for Loretta_65:

(Start: 147 @44584 has 153 MA's), (244, 44719), (266, 44746),

Gene: LucySwiss_66 Start: 45401, Stop: 45664, Start Num: 147

Candidate Starts for LucySwiss_66:

(Start: 147 @45401 has 153 MA's), (317, 45623), (323, 45638),

Gene: LucySwiss_61 Start: 43671, Stop: 43970, Start Num: 147

Candidate Starts for LucySwiss_61:

(Start: 147 @43671 has 153 MA's), (244, 43803), (246, 43806), (311, 43905),

Gene: Magsby_55 Start: 36284, Stop: 36682, Start Num: 88

Candidate Starts for Magsby_55:

(Start: 49 @36194 has 5 MA's), (68, 36230), (Start: 88 @36284 has 5 MA's), (185, 36437), (188, 36440), (210, 36467), (294, 36578), (299, 36584), (330, 36671),

Gene: Makai_70 Start: 46375, Stop: 46647, Start Num: 147

Candidate Starts for Makai_70:

(Start: 147 @46375 has 153 MA's), (289, 46555), (317, 46606),

Gene: Makai_65 Start: 44655, Stop: 44951, Start Num: 147

Candidate Starts for Makai_65:

(Start: 147 @44655 has 153 MA's), (244, 44787), (246, 44790), (311, 44886),

Gene: Manatee_11 Start: 6673, Stop: 6987, Start Num: 156

Candidate Starts for Manatee_11:

(Start: 156 @6673 has 21 MA's), (178, 6712), (194, 6721), (234, 6790), (282, 6865), (313, 6925),

Gene: Maravista_93 Start: 55020, Stop: 55301, Start Num: 153

Candidate Starts for Maravista_93:

(17, 54609), (20, 54630), (22, 54651), (24, 54681), (Start: 153 @55020 has 40 MA's), (178, 55065), (203, 55083), (294, 55200),

Gene: Marcie_61 Start: 38811, Stop: 38491, Start Num: 142

Candidate Starts for Marcie_61:

(119, 38841), (Start: 135 @38814 has 1 MA's), (Start: 142 @38811 has 7 MA's), (178, 38760), (206, 38712), (238, 38682), (276, 38637), (294, 38598), (307, 38577), (313, 38562),

Gene: Mardi_68 Start: 43484, Stop: 43768, Start Num: 147

Candidate Starts for Mardi_68:

(Start: 147 @43484 has 153 MA's), (Start: 174 @43511 has 4 MA's), (278, 43649), (320, 43724),

Gene: Marianna39_178 Start: 88401, Stop: 88700, Start Num: 147

Candidate Starts for Marianna39_178:

(Start: 147 @88401 has 153 MA's), (289, 88587), (330, 88683),

Gene: Marianna39_130 Start: 70266, Stop: 70631, Start Num: 147

Candidate Starts for Marianna39_130:

(102, 70188), (Start: 147 @70266 has 153 MA's), (224, 70377), (279, 70452), (308, 70503),

Gene: Marianna39_160 Start: 81269, Stop: 81586, Start Num: 147

Candidate Starts for Marianna39_160:

(Start: 98 @81185 has 1 MA's), (111, 81209), (Start: 147 @81269 has 153 MA's), (207, 81356), (255, 81428), (310, 81515), (317, 81542),

Gene: Marianna39_122 Start: 66940, Stop: 67248, Start Num: 147

Candidate Starts for Marianna39_122:

(Start: 147 @66940 has 153 MA's), (178, 66985), (203, 67024), (269, 67120),

Gene: Marianna39_123 Start: 67245, Stop: 67658, Start Num: 110

Candidate Starts for Marianna39_123:

(Start: 110 @67245 has 4 MA's), (Start: 152 @67311 has 32 MA's), (162, 67329), (173, 67344), (263, 67485), (310, 67554),

Gene: Marianna39_121 Start: 66593, Stop: 66937, Start Num: 140

Candidate Starts for Marianna39_121:

(Start: 140 @66593 has 4 MA's), (293, 66839), (296, 66842),

Gene: Marianna39_233 Start: 105292, Stop: 105582, Start Num: 174

Candidate Starts for Marianna39_233:

(Start: 174 @105292 has 4 MA's), (186, 105319), (225, 105376), (324, 105556), (328, 105571),

Gene: Martik_95 Start: 54823, Stop: 55104, Start Num: 153

Candidate Starts for Martik_95:

(17, 54412), (20, 54433), (22, 54454), (24, 54484), (Start: 153 @54823 has 40 MA's), (178, 54868), (203, 54886), (294, 55003),

Gene: Mask_58 Start: 48446, Stop: 48838, Start Num: 92

Candidate Starts for Mask_58:

(79, 48416), (Start: 92 @48446 has 2 MA's), (118, 48494), (185, 48593), (188, 48596), (210, 48623), (294, 48734), (299, 48740),

Gene: Mattes_97 Start: 54029, Stop: 54310, Start Num: 153

Candidate Starts for Mattes_97:

(17, 53618), (20, 53639), (22, 53660), (24, 53690), (Start: 153 @54029 has 40 MA's), (178, 54074), (203, 54092), (294, 54209), (313, 54245),

Gene: McGuire_11 Start: 6718, Stop: 7032, Start Num: 156

Candidate Starts for McGuire_11:

(Start: 156 @6718 has 21 MA's), (178, 6757), (194, 6766), (234, 6835), (282, 6910), (313, 6970),

Gene: MediumFry_62 Start: 44006, Stop: 44296, Start Num: 147

Candidate Starts for MediumFry_62:

(Start: 147 @44006 has 153 MA's), (232, 44123), (244, 44138), (246, 44141),

Gene: MediumFry_66 Start: 45539, Stop: 45841, Start Num: 147

Candidate Starts for MediumFry_66:

(54, 45362), (58, 45371), (73, 45404), (93, 45458), (102, 45479), (Start: 147 @45539 has 153 MA's),

Gene: MellowYellow_8 Start: 3065, Stop: 3472, Start Num: 141

Candidate Starts for MellowYellow_8:

(Start: 141 @3065 has 15 MA's), (173, 3116), (178, 3125), (225, 3212), (251, 3260), (277, 3326), (288, 3344), (299, 3362),

Gene: Michelle_68 Start: 43960, Stop: 44289, Start Num: 147

Candidate Starts for Michelle_68:

(Start: 147 @43960 has 153 MA's), (244, 44104), (256, 44125), (318, 44248),

Gene: MiniBagel_61 Start: 44764, Stop: 45063, Start Num: 147

Candidate Starts for MiniBagel_61:

(Start: 147 @44764 has 153 MA's), (244, 44896), (311, 44998),

Gene: MiniBagel_65 Start: 46355, Stop: 46624, Start Num: 147

Candidate Starts for MiniBagel_65:

(57, 46163), (59, 46172), (71, 46196), (75, 46208), (76, 46211), (78, 46217), (80, 46220), (109, 46289), (Start: 147 @46355 has 153 MA's), (289, 46532),

Gene: Minnie_91 Start: 54441, Stop: 54722, Start Num: 153

Candidate Starts for Minnie_91:

(17, 54030), (20, 54051), (22, 54072), (24, 54102), (Start: 153 @54441 has 40 MA's), (178, 54486), (203, 54504), (294, 54621),

Gene: Mooshroom_43 Start: 29456, Stop: 29764, Start Num: 147

Candidate Starts for Mooshroom_43:

(Start: 147 @29456 has 153 MA's), (192, 29528),

Gene: Mooshroom_73 Start: 44083, Stop: 44394, Start Num: 143

Candidate Starts for Mooshroom_73:

(Start: 143 @44083 has 26 MA's), (184, 44146), (257, 44224), (266, 44245), (281, 44269), (290, 44287), (310, 44317),

Gene: MortyNRick_62 Start: 41583, Stop: 41870, Start Num: 154

Candidate Starts for MortyNRick_62:

(27, 41283), (37, 41334), (40, 41346), (48, 41370), (84, 41457), (144, 41571), (Start: 154 @41583 has 2 MA's), (178, 41628), (258, 41700), (303, 41778), (313, 41802), (330, 41859),

Gene: Mossy_1 Start: 220, Stop: 549, Start Num: 147

Candidate Starts for Mossy_1:

(Start: 147 @220 has 153 MA's), (178, 268), (230, 352), (279, 427), (294, 454), (303, 466),

Gene: MrAaronian_68 Start: 43960, Stop: 44289, Start Num: 147

Candidate Starts for MrAaronian_68:

(Start: 147 @43960 has 153 MA's), (244, 44104), (256, 44125), (318, 44248),

Gene: Mudcat_38 Start: 30149, Stop: 30457, Start Num: 147

Candidate Starts for Mudcat_38:

(Start: 147 @30149 has 153 MA's),

Gene: Mudcat_68 Start: 45168, Stop: 45479, Start Num: 143

Candidate Starts for Mudcat_68:

(Start: 143 @45168 has 26 MA's), (184, 45231), (257, 45309), (266, 45330), (281, 45354), (290, 45372), (310, 45402),

Gene: Muglass_69 Start: 44211, Stop: 44516, Start Num: 147

Candidate Starts for Muglass_69:

(Start: 147 @44211 has 153 MA's), (Start: 174 @44241 has 4 MA's), (198, 44283), (287, 44409), (321, 44487),

Gene: Mutzi_78 Start: 53560, Stop: 53943, Start Num: 152

Candidate Starts for Mutzi_78:

(Start: 152 @53560 has 32 MA's), (214, 53656), (303, 53764), (330, 53842),

Gene: Myrna_235 Start: 137260, Stop: 137607, Start Num: 175

Candidate Starts for Myrna_235:

(16, 136774), (27, 136918), (39, 136978), (83, 137095), (Start: 175 @137260 has 3 MA's), (205, 137311), (294, 137461), (299, 137467), (305, 137476), (308, 137485), (338, 137599),

Gene: Naira_11 Start: 6952, Stop: 7266, Start Num: 156

Candidate Starts for Naira_11:

(Start: 156 @6952 has 21 MA's), (178, 6991), (234, 7069), (265, 7114),

Gene: NapoleonB_73 Start: 44325, Stop: 44636, Start Num: 143

Candidate Starts for NapoleonB_73:

(Start: 143 @44325 has 26 MA's), (184, 44388), (257, 44466), (266, 44487), (281, 44511), (290, 44529), (310, 44559),

Gene: NapoleonB_40 Start: 28937, Stop: 29245, Start Num: 147
Candidate Starts for NapoleonB_40:
(Start: 147 @28937 has 153 MA's), (192, 29009),

Gene: Nason_72 Start: 44474, Stop: 44782, Start Num: 143
Candidate Starts for Nason_72:
(Start: 143 @44474 has 26 MA's), (218, 44576), (257, 44612), (290, 44675), (310, 44705),

Gene: Nason_41 Start: 29295, Stop: 29603, Start Num: 147
Candidate Starts for Nason_41:
(Start: 147 @29295 has 153 MA's),

Gene: Natasha_71 Start: 44273, Stop: 44602, Start Num: 147
Candidate Starts for Natasha_71:
(Start: 147 @44273 has 153 MA's), (244, 44417), (256, 44438), (318, 44561),

Gene: Navi1117_70 Start: 43926, Stop: 44207, Start Num: 147
Candidate Starts for Navi1117_70:
(Start: 147 @43926 has 153 MA's), (Start: 174 @43953 has 4 MA's), (229, 44034), (267, 44073), (278, 44088), (295, 44118), (320, 44163),

Gene: Neroxid_43 Start: 27312, Stop: 27632, Start Num: 153
Candidate Starts for Neroxid_43:
(113, 27255), (Start: 153 @27312 has 40 MA's), (259, 27468), (294, 27531), (331, 27624),

Gene: Nightmare_63 Start: 45062, Stop: 45361, Start Num: 147
Candidate Starts for Nightmare_63:
(Start: 147 @45062 has 153 MA's), (244, 45194), (246, 45197), (311, 45296),

Gene: Nightmare_67 Start: 46698, Stop: 46961, Start Num: 147
Candidate Starts for Nightmare_67:
(Start: 147 @46698 has 153 MA's), (207, 46776), (323, 46935),

Gene: Nikan_9 Start: 4093, Stop: 4401, Start Num: 153
Candidate Starts for Nikan_9:
(Start: 153 @4093 has 40 MA's), (294, 4297), (313, 4333),

Gene: Niktson_61 Start: 44520, Stop: 44819, Start Num: 147
Candidate Starts for Niktson_61:
(Start: 147 @44520 has 153 MA's), (244, 44652), (246, 44655), (311, 44754),

Gene: Niktson_66 Start: 46256, Stop: 46558, Start Num: 147
Candidate Starts for Niktson_66:
(54, 46061), (73, 46106), (74, 46109), (77, 46118), (82, 46136), (Start: 92 @46157 has 2 MA's), (93, 46160), (95, 46163), (105, 46187), (Start: 147 @46256 has 153 MA's), (239, 46385),

Gene: Nina_52 Start: 37854, Stop: 37525, Start Num: 156
Candidate Starts for Nina_52:
(Start: 156 @37854 has 21 MA's), (178, 37815), (236, 37722), (279, 37653),

Gene: Nivinsha_63 Start: 44018, Stop: 44311, Start Num: 147

Candidate Starts for Nivinsha_63:

(Start: 147 @44018 has 153 MA's), (246, 44156),

Gene: Nivinsha_69 Start: 45830, Stop: 46093, Start Num: 147

Candidate Starts for Nivinsha_69:

(Start: 147 @45830 has 153 MA's), (207, 45908), (323, 46067),

Gene: Nivrat_96 Start: 53965, Stop: 54246, Start Num: 153

Candidate Starts for Nivrat_96:

(17, 53554), (20, 53575), (22, 53596), (24, 53626), (Start: 153 @53965 has 40 MA's), (178, 54010), (203, 54028), (294, 54145),

Gene: NormanBulbieJr_94 Start: 54069, Stop: 54350, Start Num: 153

Candidate Starts for NormanBulbieJr_94:

(17, 53658), (20, 53679), (22, 53700), (24, 53730), (Start: 153 @54069 has 40 MA's), (178, 54114), (203, 54132), (294, 54249),

Gene: NyleyClemson_7 Start: 3007, Stop: 3414, Start Num: 141

Candidate Starts for NyleyClemson_7:

(Start: 141 @3007 has 15 MA's), (173, 3058), (178, 3067), (225, 3154), (251, 3202), (277, 3268), (288, 3286), (299, 3304),

Gene: Octobien14_114 Start: 63585, Stop: 63860, Start Num: 169

Candidate Starts for Octobien14_114:

(101, 63468), (Start: 169 @63585 has 4 MA's), (212, 63651), (329, 63849),

Gene: Odyssey395_10 Start: 3459, Stop: 3866, Start Num: 141

Candidate Starts for Odyssey395_10:

(Start: 141 @3459 has 15 MA's), (173, 3510), (178, 3519), (225, 3606), (251, 3654), (277, 3720), (288, 3738), (299, 3756),

Gene: Ollypop_11 Start: 4172, Stop: 4435, Start Num: 153

Candidate Starts for Ollypop_11:

(Start: 153 @4172 has 40 MA's), (199, 4235), (211, 4256), (271, 4292), (294, 4331),

Gene: Ollypop_7 Start: 3116, Stop: 3523, Start Num: 141

Candidate Starts for Ollypop_7:

(97, 3041), (125, 3092), (Start: 141 @3116 has 15 MA's), (178, 3176), (195, 3206), (251, 3311), (288, 3395), (299, 3413),

Gene: OlympiaSaint_100 Start: 54235, Stop: 54516, Start Num: 153

Candidate Starts for OlympiaSaint_100:

(17, 53824), (20, 53845), (22, 53866), (24, 53896), (Start: 153 @54235 has 40 MA's), (178, 54280), (203, 54298), (294, 54415),

Gene: OneinaGillian_56 Start: 37823, Stop: 37530, Start Num: 142

Candidate Starts for OneinaGillian_56:

(119, 37853), (Start: 135 @37826 has 1 MA's), (Start: 142 @37823 has 7 MA's), (Start: 153 @37811 has 40 MA's), (178, 37772), (179, 37769), (200, 37736), (206, 37724), (220, 37715), (294, 37637), (307, 37616), (313, 37601),

Gene: Onestar_67 Start: 44130, Stop: 44408, Start Num: 147

Candidate Starts for Onestar_67:

(126, 44103), (Start: 147 @44130 has 153 MA's), (196, 44196), (203, 44205), (284, 44298), (310, 44334),

Gene: Paella_133 Start: 71406, Stop: 71771, Start Num: 147

Candidate Starts for Paella_133:

(102, 71328), (Start: 147 @71406 has 153 MA's), (224, 71517), (279, 71592), (308, 71643),

Gene: Paella_181 Start: 89280, Stop: 89579, Start Num: 147

Candidate Starts for Paella_181:

(Start: 147 @89280 has 153 MA's), (289, 89466), (330, 89562),

Gene: Paella_124 Start: 68080, Stop: 68388, Start Num: 147

Candidate Starts for Paella_124:

(Start: 147 @68080 has 153 MA's), (178, 68125), (203, 68164), (269, 68260),

Gene: Paella_125 Start: 68385, Stop: 68798, Start Num: 110

Candidate Starts for Paella_125:

(Start: 110 @68385 has 4 MA's), (Start: 152 @68451 has 32 MA's), (162, 68469), (173, 68484), (263, 68625), (310, 68694),

Gene: Paella_123 Start: 67733, Stop: 68077, Start Num: 140

Candidate Starts for Paella_123:

(Start: 140 @67733 has 4 MA's), (293, 67979), (296, 67982),

Gene: Paella_235 Start: 106079, Stop: 106369, Start Num: 174

Candidate Starts for Paella_235:

(Start: 174 @106079 has 4 MA's), (225, 106163), (324, 106343), (328, 106358),

Gene: Paella_164 Start: 82455, Stop: 82772, Start Num: 147

Candidate Starts for Paella_164:

(Start: 98 @82371 has 1 MA's), (111, 82395), (Start: 147 @82455 has 153 MA's), (207, 82542), (255, 82614), (310, 82701), (317, 82728),

Gene: Parmesanjohn_55 Start: 36197, Stop: 36685, Start Num: 49

Candidate Starts for Parmesanjohn_55:

(Start: 49 @36197 has 5 MA's), (68, 36233), (Start: 88 @36287 has 5 MA's), (185, 36440), (188, 36443), (210, 36470), (294, 36581), (299, 36587), (330, 36674),

Gene: ParvusTarda_93 Start: 64024, Stop: 64359, Start Num: 128

Candidate Starts for ParvusTarda_93:

(Start: 128 @64024 has 2 MA's), (132, 64033), (144, 64042), (Start: 152 @64051 has 32 MA's), (178, 64099), (294, 64252), (308, 64276), (332, 64345),

Gene: PauloDiaboli_215 Start: 113653, Stop: 113336, Start Num: 143

Candidate Starts for PauloDiaboli_215:

(Start: 143 @113653 has 26 MA's), (241, 113536), (272, 113497), (294, 113458), (319, 113401), (336, 113341),

Gene: Peas_65 Start: 41993, Stop: 42271, Start Num: 148

Candidate Starts for Peas_65:

(13, 41477), (43, 41768), (94, 41897), (Start: 148 @41993 has 2 MA's), (292, 42167), (294, 42170), (313, 42206), (329, 42260),

Gene: Pepe25_55 Start: 37387, Stop: 37064, Start Num: 142

Candidate Starts for Pepe25_55:

(119, 37417), (Start: 135 @37390 has 1 MA's), (Start: 142 @37387 has 7 MA's), (Start: 153 @37375 has 40 MA's), (168, 37351), (178, 37336), (200, 37300), (206, 37288), (238, 37258), (276, 37213), (294, 37174),

Gene: Perkunas_2 Start: 448, Stop: 780, Start Num: 147

Candidate Starts for Perkunas_2:

(Start: 147 @448 has 153 MA's), (192, 514), (294, 682), (308, 706),

Gene: Phabba_246 Start: 137077, Stop: 137433, Start Num: 175

Candidate Starts for Phabba_246:

(32, 136756), (78, 136897), (Start: 175 @137077 has 3 MA's), (205, 137128), (249, 137203), (273, 137236), (275, 137245), (294, 137287), (299, 137293), (305, 137302), (308, 137311),

Gene: Phaby_67 Start: 45074, Stop: 45367, Start Num: 147

Candidate Starts for Phaby_67:

(Start: 147 @45074 has 153 MA's),

Gene: Phaby_71 Start: 46619, Stop: 46891, Start Num: 147

Candidate Starts for Phaby_71:

(Start: 147 @46619 has 153 MA's), (289, 46799), (323, 46865),

Gene: Phaila_68 Start: 43149, Stop: 43433, Start Num: 147

Candidate Starts for Phaila_68:

(Start: 147 @43149 has 153 MA's), (Start: 174 @43176 has 4 MA's), (278, 43314),

Gene: Philus_98 Start: 54977, Stop: 55258, Start Num: 153

Candidate Starts for Philus_98:

(17, 54566), (20, 54587), (22, 54608), (24, 54638), (Start: 153 @54977 has 40 MA's), (178, 55022), (203, 55040), (294, 55157),

Gene: Phlop_78 Start: 52902, Stop: 53273, Start Num: 152

Candidate Starts for Phlop_78:

(61, 52719), (Start: 152 @52902 has 32 MA's), (294, 53079), (308, 53103),

Gene: Phloss_53 Start: 35604, Stop: 36092, Start Num: 49

Candidate Starts for Phloss_53:

(Start: 49 @35604 has 5 MA's), (68, 35640), (Start: 88 @35694 has 5 MA's), (185, 35847), (188, 35850), (210, 35877), (294, 35988), (299, 35994), (330, 36081),

Gene: PhuzzTulsa_6 Start: 3249, Stop: 3656, Start Num: 141

Candidate Starts for PhuzzTulsa_6:

(Start: 141 @3249 has 15 MA's), (173, 3300), (178, 3309), (225, 3396), (251, 3444), (277, 3510), (288, 3528), (299, 3546),

Gene: PinkPlastic_9 Start: 6480, Stop: 6794, Start Num: 156

Candidate Starts for PinkPlastic_9:

(Start: 156 @6480 has 21 MA's), (178, 6519), (194, 6528), (234, 6597), (282, 6672), (313, 6732),

Gene: Pipp_48 Start: 34437, Stop: 34712, Start Num: 149

Candidate Starts for Pipp_48:

(Start: 149 @34437 has 8 MA's), (294, 34608), (308, 34632),

Gene: Pippin15_60 Start: 40959, Stop: 41237, Start Num: 190

Candidate Starts for Pippin15_60:

(Start: 190 @40959 has 1 MA's), (254, 41061), (269, 41088), (299, 41142), (330, 41226),

Gene: Pippy_94 Start: 52340, Stop: 52621, Start Num: 153

Candidate Starts for Pippy_94:

(17, 51929), (20, 51950), (22, 51971), (24, 52001), (Start: 153 @52340 has 40 MA's), (178, 52385), (203, 52403), (294, 52520),

Gene: Pipsqueaks_56 Start: 36265, Stop: 36663, Start Num: 88

Candidate Starts for Pipsqueaks_56:

(Start: 49 @36175 has 5 MA's), (68, 36211), (Start: 88 @36265 has 5 MA's), (185, 36418), (188, 36421), (210, 36448), (294, 36559), (299, 36565), (330, 36652),

Gene: PoeMe_68 Start: 43634, Stop: 43918, Start Num: 147

Candidate Starts for PoeMe_68:

(Start: 147 @43634 has 153 MA's), (160, 43640),

Gene: Pointis_8 Start: 3460, Stop: 3867, Start Num: 141

Candidate Starts for Pointis_8:

(Start: 141 @3460 has 15 MA's), (173, 3511), (178, 3520), (225, 3607), (251, 3655), (277, 3721), (288, 3739), (299, 3757),

Gene: Popstraw_8 Start: 3443, Stop: 3850, Start Num: 141

Candidate Starts for Popstraw_8:

(Start: 141 @3443 has 15 MA's), (173, 3494), (178, 3503), (225, 3590), (251, 3638), (277, 3704), (288, 3722), (299, 3740),

Gene: Portcullis_81 Start: 52908, Stop: 53279, Start Num: 152

Candidate Starts for Portcullis_81:

(61, 52725), (Start: 152 @52908 has 32 MA's), (294, 53085), (308, 53109),

Gene: Powelldog_71 Start: 44664, Stop: 44993, Start Num: 147

Candidate Starts for Powelldog_71:

(29, 44370), (30, 44376), (41, 44433), (44, 44439), (50, 44460), (59, 44481), (71, 44505), (81, 44538), (Start: 147 @44664 has 153 MA's), (244, 44808), (246, 44811), (298, 44904),

Gene: Priscilla_97 Start: 54167, Stop: 54448, Start Num: 153

Candidate Starts for Priscilla_97:

(17, 53756), (20, 53777), (22, 53798), (24, 53828), (Start: 153 @54167 has 40 MA's), (178, 54212), (203, 54230), (294, 54347),

Gene: ProfFrink_68 Start: 43938, Stop: 44267, Start Num: 147

Candidate Starts for ProfFrink_68:

(Start: 147 @43938 has 153 MA's), (244, 44082), (256, 44103), (318, 44226),

Gene: PullumCavea_79 Start: 53079, Stop: 53450, Start Num: 152

Candidate Starts for PullumCavea_79:

(61, 52896), (Start: 152 @53079 has 32 MA's), (294, 53256), (308, 53280),

Gene: Pumpernickel_196 Start: 112347, Stop: 112042, Start Num: 143

Candidate Starts for Pumpernickel_196:

(Start: 143 @112347 has 26 MA's), (Start: 148 @112341 has 2 MA's), (205, 112272), (297, 112170), (334, 112059),

Gene: Pureglobe5_10 Start: 3473, Stop: 3880, Start Num: 141

Candidate Starts for Pureglobe5_10:

(Start: 141 @3473 has 15 MA's), (173, 3524), (178, 3533), (225, 3620), (251, 3668), (277, 3734), (288, 3752), (299, 3770),

Gene: Qui_123 Start: 67733, Stop: 68077, Start Num: 140

Candidate Starts for Qui_123:

(Start: 140 @67733 has 4 MA's), (293, 67979), (296, 67982),

Gene: Qui_125 Start: 68385, Stop: 68798, Start Num: 110

Candidate Starts for Qui_125:

(Start: 110 @68385 has 4 MA's), (Start: 152 @68451 has 32 MA's), (162, 68469), (173, 68484), (263, 68625), (310, 68694),

Gene: Qui_124 Start: 68080, Stop: 68388, Start Num: 147

Candidate Starts for Qui_124:

(Start: 147 @68080 has 153 MA's), (178, 68125), (203, 68164), (269, 68260),

Gene: Qui_234 Start: 106067, Stop: 106357, Start Num: 174

Candidate Starts for Qui_234:

(Start: 174 @106067 has 4 MA's), (225, 106151), (324, 106331), (328, 106346),

Gene: Qui_164 Start: 82455, Stop: 82772, Start Num: 147

Candidate Starts for Qui_164:

(Start: 98 @82371 has 1 MA's), (111, 82395), (Start: 147 @82455 has 153 MA's), (207, 82542), (255, 82614), (310, 82701), (317, 82728),

Gene: Qui_133 Start: 71406, Stop: 71771, Start Num: 147

Candidate Starts for Qui_133:

(102, 71328), (Start: 147 @71406 has 153 MA's), (224, 71517), (279, 71592), (308, 71643),

Gene: Qui_181 Start: 89277, Stop: 89576, Start Num: 147

Candidate Starts for Qui_181:

(Start: 147 @89277 has 153 MA's), (289, 89463), (330, 89559),

Gene: RIPWilbur_6 Start: 2867, Stop: 3274, Start Num: 141

Candidate Starts for RIPWilbur_6:

(Start: 141 @2867 has 15 MA's), (173, 2918), (178, 2927), (225, 3014), (251, 3062), (277, 3128), (299, 3164),

Gene: Rajelicia_10 Start: 6620, Stop: 6934, Start Num: 156

Candidate Starts for Rajelicia_10:

(Start: 156 @6620 has 21 MA's), (178, 6659), (194, 6668), (234, 6737), (282, 6812), (313, 6872),

Gene: Ranunculus_6 Start: 3041, Stop: 3424, Start Num: 141

Candidate Starts for Ranunculus_6:

(Start: 141 @3041 has 15 MA's), (251, 3236), (279, 3305), (288, 3320), (297, 3335), (299, 3338),

Gene: Raunak_69 Start: 43600, Stop: 43929, Start Num: 147

Candidate Starts for Raunak_69:

(Start: 147 @43600 has 153 MA's), (244, 43744), (256, 43765), (318, 43888),

Gene: Raya_43 Start: 27312, Stop: 27632, Start Num: 153

Candidate Starts for Raya_43:

(113, 27255), (Start: 153 @27312 has 40 MA's), (259, 27468), (294, 27531), (331, 27624),

Gene: RazzB_7 Start: 2835, Stop: 3242, Start Num: 141

Candidate Starts for RazzB_7:

(Start: 141 @2835 has 15 MA's), (173, 2886), (178, 2895), (225, 2982), (251, 3030), (277, 3096), (288, 3114), (299, 3132),

Gene: RedBaron_57 Start: 37907, Stop: 37578, Start Num: 156

Candidate Starts for RedBaron_57:

(Start: 156 @37907 has 21 MA's), (178, 37868), (236, 37775), (279, 37706),

Gene: Ren19_5 Start: 3039, Stop: 3446, Start Num: 141

Candidate Starts for Ren19_5:

(97, 2964), (125, 3015), (Start: 141 @3039 has 15 MA's), (178, 3099), (195, 3129), (225, 3186), (251, 3234), (253, 3237), (277, 3300), (288, 3318), (299, 3336),

Gene: Ren19_9 Start: 4093, Stop: 4401, Start Num: 153

Candidate Starts for Ren19_9:

(Start: 153 @4093 has 40 MA's), (294, 4297), (313, 4333),

Gene: Renaldo_76 Start: 45093, Stop: 45398, Start Num: 147

Candidate Starts for Renaldo_76:

(Start: 147 @45093 has 153 MA's), (198, 45165), (287, 45291), (321, 45369),

Gene: Rizwana_7 Start: 3422, Stop: 3844, Start Num: 149

Candidate Starts for Rizwana_7:

(108, 3356), (Start: 149 @3422 has 8 MA's), (167, 3458), (193, 3500), (225, 3560), (297, 3707), (299, 3710),

Gene: Rizwana_8 Start: 3952, Stop: 4329, Start Num: 147

Candidate Starts for Rizwana_8:

(99, 3871), (104, 3880), (124, 3916), (Start: 147 @3952 has 153 MA's), (178, 4006), (184, 4015), (191, 4027), (198, 4036), (269, 4168),

Gene: RobinRose_58 Start: 38338, Stop: 38039, Start Num: 135

Candidate Starts for RobinRose_58:

(119, 38365), (Start: 135 @38338 has 1 MA's), (Start: 142 @38335 has 7 MA's), (Start: 153 @38323 has 40 MA's), (168, 38299), (178, 38284), (206, 38236), (220, 38227), (274, 38191), (294, 38149), (307, 38128),

Gene: Rockabye_66 Start: 29857, Stop: 30210, Start Num: 112

Candidate Starts for Rockabye_66:

(Start: 112 @29857 has 2 MA's), (279, 30079),

Gene: RogerDodger_84 Start: 53667, Stop: 54038, Start Num: 152

Candidate Starts for RogerDodger_84:

(61, 53484), (Start: 152 @53667 has 32 MA's), (294, 53844), (308, 53868),

Gene: Romm_58 Start: 38320, Stop: 38039, Start Num: 153

Candidate Starts for Romm_58:

(119, 38362), (Start: 135 @38335 has 1 MA's), (Start: 142 @38332 has 7 MA's), (Start: 153 @38320 has 40 MA's), (178, 38281), (179, 38278), (200, 38245), (206, 38233), (220, 38224), (294, 38146), (307, 38125), (313, 38110),

Gene: RustyBoy_72 Start: 44472, Stop: 44801, Start Num: 147

Candidate Starts for RustyBoy_72:

(Start: 147 @44472 has 153 MA's), (244, 44616), (256, 44637), (318, 44760),

Gene: SJReid_70 Start: 30780, Stop: 31085, Start Num: 112

Candidate Starts for SJReid_70:

(Start: 112 @30780 has 2 MA's),

Gene: Saal_94 Start: 53731, Stop: 54012, Start Num: 153

Candidate Starts for Saal_94:

(17, 53320), (20, 53341), (22, 53362), (24, 53392), (Start: 153 @53731 has 40 MA's), (178, 53776), (203, 53794), (294, 53911),

Gene: SadLad_63 Start: 46437, Stop: 46174, Start Num: 158

Candidate Starts for SadLad_63:

(Start: 158 @46437 has 2 MA's), (173, 46410), (201, 46389), (294, 46278), (313, 46242), (330, 46185),

Gene: Salk_68 Start: 43958, Stop: 44287, Start Num: 147

Candidate Starts for Salk_68:

(Start: 147 @43958 has 153 MA's), (244, 44102), (256, 44123), (318, 44246),

Gene: Salvador_80 Start: 53022, Stop: 53375, Start Num: 152

Candidate Starts for Salvador_80:

(Start: 152 @53022 has 32 MA's), (313, 53217),

Gene: Sandalphon_96 Start: 54715, Stop: 55005, Start Num: 146

Candidate Starts for Sandalphon_96:

(Start: 146 @54715 has 1 MA's), (178, 54769), (203, 54787), (294, 54904),

Gene: Schnauzer_56 Start: 36197, Stop: 36685, Start Num: 49

Candidate Starts for Schnauzer_56:

(Start: 49 @36197 has 5 MA's), (68, 36233), (Start: 88 @36287 has 5 MA's), (185, 36440), (188, 36443), (210, 36470), (294, 36581), (299, 36587), (330, 36674),

Gene: ScienceWizSam_62 Start: 44180, Stop: 44473, Start Num: 147

Candidate Starts for ScienceWizSam_62:

(Start: 147 @44180 has 153 MA's), (246, 44318),

Gene: ScienceWizSam_67 Start: 45992, Stop: 46255, Start Num: 147

Candidate Starts for ScienceWizSam_67:

(Start: 147 @45992 has 153 MA's), (207, 46070), (323, 46229),

Gene: ScoobyDoobyDoo_233 Start: 134075, Stop: 134443, Start Num: 175

Candidate Starts for ScoobyDoobyDoo_233:

(Start: 175 @134075 has 3 MA's), (266, 134234), (299, 134303), (308, 134321), (329, 134387), (334, 134414),

Gene: Seabiscuit_12 Start: 6693, Stop: 7034, Start Num: 138

Candidate Starts for Seabiscuit_12:

(Start: 138 @6693 has 1 MA's), (Start: 156 @6720 has 21 MA's), (178, 6759), (194, 6768), (234, 6837), (282, 6912), (313, 6972),

Gene: Sephiroth_114 Start: 64560, Stop: 64826, Start Num: 169

Candidate Starts for Sephiroth_114:

(101, 64443), (Start: 169 @64560 has 4 MA's), (301, 64734), (329, 64815),

Gene: SeresaTree_71 Start: 55390, Stop: 55779, Start Num: 121

Candidate Starts for SeresaTree_71:

(Start: 121 @55390 has 7 MA's), (179, 55477), (184, 55486), (226, 55558), (231, 55564), (326, 55741), (327, 55750),

Gene: Sham_67 Start: 56064, Stop: 56453, Start Num: 121

Candidate Starts for Sham_67:

(Start: 121 @56064 has 7 MA's), (137, 56091), (231, 56238), (327, 56424),

Gene: SharkTale_84 Start: 55255, Stop: 55656, Start Num: 152

Candidate Starts for SharkTale_84:

(52, 55072), (Start: 152 @55255 has 32 MA's), (178, 55303), (294, 55462), (308, 55486), (313, 55498),

Gene: Shepard_67 Start: 44369, Stop: 44662, Start Num: 147

Candidate Starts for Shepard_67:

(Start: 147 @44369 has 153 MA's),

Gene: Shepard_71 Start: 45944, Stop: 46213, Start Num: 147

Candidate Starts for Shepard_71:

(Start: 147 @45944 has 153 MA's), (289, 46121),

Gene: ShiLan_99 Start: 55748, Stop: 56029, Start Num: 153

Candidate Starts for ShiLan_99:

(17, 55337), (20, 55358), (22, 55379), (24, 55409), (Start: 153 @55748 has 40 MA's), (178, 55793), (203, 55811), (294, 55928), (313, 55964),

Gene: Shiba_67 Start: 43616, Stop: 43945, Start Num: 147

Candidate Starts for Shiba_67:

(Start: 147 @43616 has 153 MA's), (244, 43760), (256, 43781), (318, 43904),

Gene: Shinji_80 Start: 53025, Stop: 53456, Start Num: 148

Candidate Starts for Shinji_80:

(Start: 148 @53025 has 2 MA's), (178, 53073), (265, 53208), (279, 53235), (282, 53238), (308, 53286),

Gene: Shocker_3 Start: 902, Stop: 1168, Start Num: 155

Candidate Starts for Shocker_3:

(Start: 155 @902 has 1 MA's), (201, 956), (294, 1067),

Gene: ShowerHandel_97 Start: 53013, Stop: 53294, Start Num: 153

Candidate Starts for ShowerHandel_97:

(17, 52602), (20, 52623), (22, 52644), (24, 52674), (Start: 153 @53013 has 40 MA's), (178, 53058), (203, 53076), (294, 53193),

Gene: SilentRX_7 Start: 2575, Stop: 2988, Start Num: 149

Candidate Starts for SilentRX_7:

(Start: 149 @2575 has 8 MA's), (202, 2665), (253, 2764), (261, 2782), (310, 2878),

Gene: Sixsevenium_82 Start: 54340, Stop: 54714, Start Num: 152

Candidate Starts for Sixsevenium_82:

(Start: 152 @54340 has 32 MA's), (292, 54517), (294, 54520),

Gene: Skyerus_38 Start: 25430, Stop: 25750, Start Num: 153

Candidate Starts for Skyerus_38:

(113, 25373), (Start: 153 @25430 has 40 MA's), (259, 25586), (294, 25649), (331, 25742),

Gene: Slagathor_11 Start: 6591, Stop: 6905, Start Num: 156

Candidate Starts for Slagathor_11:

(Start: 156 @6591 has 21 MA's), (178, 6630), (194, 6639), (234, 6708), (282, 6783), (313, 6843),

Gene: Sloopyjoe_68 Start: 43962, Stop: 44291, Start Num: 147

Candidate Starts for Sloopyjoe_68:

(Start: 147 @43962 has 153 MA's), (244, 44106), (256, 44127), (318, 44250),

Gene: SmokingBunny_81 Start: 54018, Stop: 54371, Start Num: 152

Candidate Starts for SmokingBunny_81:

(Start: 152 @54018 has 32 MA's), (313, 54213),

Gene: Smurph_55 Start: 36197, Stop: 36685, Start Num: 49

Candidate Starts for Smurph_55:

(Start: 49 @36197 has 5 MA's), (68, 36233), (Start: 88 @36287 has 5 MA's), (185, 36440), (188, 36443), (210, 36470), (294, 36581), (299, 36587), (330, 36674),

Gene: SoilAssassin_55 Start: 39034, Stop: 39414, Start Num: 131

Candidate Starts for SoilAssassin_55:

(Start: 131 @39034 has 3 MA's), (164, 39088), (241, 39217), (265, 39253), (279, 39280), (282, 39283), (299, 39313), (308, 39331), (313, 39343), (330, 39400),

Gene: Spain_68 Start: 43960, Stop: 44289, Start Num: 147

Candidate Starts for Spain_68:

(Start: 147 @43960 has 153 MA's), (244, 44104), (256, 44125), (318, 44248),

Gene: SpeedDemon_540 Start: 45518, Stop: 45787, Start Num: 145

Candidate Starts for SpeedDemon_540:

(Start: 145 @45518 has 2 MA's), (178, 45566), (282, 45662), (294, 45686),

Gene: Spoonbill_96 Start: 51661, Stop: 51942, Start Num: 153

Candidate Starts for Spoonbill_96:

(17, 51250), (20, 51271), (22, 51292), (24, 51322), (Start: 153 @51661 has 40 MA's), (178, 51706), (203, 51724), (294, 51841),

Gene: Sporto_67 Start: 45047, Stop: 45376, Start Num: 156

Candidate Starts for Sporto_67:

(91, 44933), (Start: 156 @45047 has 21 MA's), (244, 45191),

Gene: Sprinkle_68 Start: 44401, Stop: 44730, Start Num: 147

Candidate Starts for Sprinkle_68:

(26, 44101), (33, 44128), (36, 44149), (Start: 49 @44194 has 5 MA's), (71, 44242), (73, 44248), (81, 44275), (118, 44356), (123, 44362), (133, 44383), (Start: 147 @44401 has 153 MA's), (230, 44527), (317, 44686),

Gene: Squee_11 Start: 7115, Stop: 7429, Start Num: 156

Candidate Starts for Squee_11:

(Start: 156 @7115 has 21 MA's), (178, 7154), (234, 7232), (265, 7277),

Gene: Squiddly_103 Start: 56800, Stop: 57090, Start Num: 152

Candidate Starts for Squiddly_103:

(63, 56620), (65, 56623), (96, 56704), (Start: 128 @56770 has 2 MA's), (Start: 152 @56800 has 32 MA's), (242, 56917), (283, 56971), (313, 57028),

Gene: StAugustine_144 Start: 85407, Stop: 85078, Start Num: 181

Candidate Starts for StAugustine_144:

(Start: 181 @85407 has 2 MA's), (216, 85350), (279, 85212), (292, 85188), (314, 85140),

Gene: StarLord_68 Start: 43955, Stop: 44284, Start Num: 147

Candidate Starts for StarLord_68:

(Start: 147 @43955 has 153 MA's), (244, 44099), (256, 44120), (318, 44243),

Gene: Stardom_38 Start: 27917, Stop: 28228, Start Num: 147

Candidate Starts for Stardom_38:

(Start: 147 @27917 has 153 MA's), (202, 28001), (309, 28160), (318, 28187),

Gene: Stardom_72 Start: 43676, Stop: 43987, Start Num: 143

Candidate Starts for Stardom_72:

(Start: 143 @43676 has 26 MA's), (184, 43739), (257, 43817), (266, 43838), (281, 43862), (290, 43880), (310, 43910),

Gene: Stardrop_68 Start: 43736, Stop: 44020, Start Num: 147

Candidate Starts for Stardrop_68:

(Start: 147 @43736 has 153 MA's), (160, 43742),

Gene: Stayer_68 Start: 43958, Stop: 44287, Start Num: 147

Candidate Starts for Stayer_68:

(Start: 147 @43958 has 153 MA's), (244, 44102), (256, 44123), (318, 44246),

Gene: Stellammi_129 Start: 61212, Stop: 61520, Start Num: 149

Candidate Starts for Stellammi_129:

(134, 61200), (Start: 149 @61212 has 8 MA's), (178, 61263), (294, 61413),

Gene: Sunfish_12 Start: 3876, Stop: 4208, Start Num: 156

Candidate Starts for Sunfish_12:

(53, 3663), (Start: 156 @3876 has 21 MA's), (188, 3927), (204, 3951), (233, 4002), (279, 4071), (313, 4134),

Gene: Sunny4976_68 Start: 46463, Stop: 46738, Start Num: 147

Candidate Starts for Sunny4976_68:

(Start: 147 @46463 has 153 MA's), (269, 46610), (284, 46631), (286, 46634), (289, 46643), (295, 46652), (310, 46667), (317, 46694),

Gene: Sunny4976_64 Start: 44572, Stop: 44859, Start Num: 147

Candidate Starts for Sunny4976_64:

(Start: 147 @44572 has 153 MA's), (289, 44758), (308, 44788), (310, 44791),

Gene: SwagPiggett_98 Start: 54867, Stop: 55148, Start Num: 153

Candidate Starts for SwagPiggett_98:

(17, 54456), (20, 54477), (22, 54498), (24, 54528), (Start: 153 @54867 has 40 MA's), (178, 54912), (203, 54930), (294, 55047),

Gene: Switzer_11 Start: 6599, Stop: 6913, Start Num: 156

Candidate Starts for Switzer_11:

(Start: 138 @6572 has 1 MA's), (Start: 156 @6599 has 21 MA's), (178, 6638), (194, 6647), (234, 6716), (282, 6791), (313, 6851),

Gene: Syleon_119 Start: 65342, Stop: 65608, Start Num: 169

Candidate Starts for Syleon_119:

(101, 65225), (Start: 169 @65342 has 4 MA's), (301, 65516), (329, 65597),

Gene: Synopsis_64 Start: 45760, Stop: 46023, Start Num: 147

Candidate Starts for Synopsis_64:

(Start: 147 @45760 has 153 MA's), (207, 45838), (323, 45997),

Gene: Synopsis_60 Start: 44184, Stop: 44477, Start Num: 147

Candidate Starts for Synopsis_60:

(Start: 147 @44184 has 153 MA's), (246, 44322),

Gene: Tank_9 Start: 3973, Stop: 4347, Start Num: 147

Candidate Starts for Tank_9:

(Start: 147 @3973 has 153 MA's), (178, 4027), (Start: 190 @4045 has 1 MA's), (191, 4048), (198, 4057), (233, 4117), (257, 4162), (269, 4189), (294, 4240), (322, 4309),

Gene: Tatanka_58 Start: 44317, Stop: 44610, Start Num: 147

Candidate Starts for Tatanka_58:

(Start: 147 @44317 has 153 MA's), (246, 44455), (260, 44467),

Gene: Tatanka_61 Start: 45896, Stop: 46159, Start Num: 147

Candidate Starts for Tatanka_61:

(Start: 147 @45896 has 153 MA's), (207, 45974), (323, 46133),

Gene: Teacup_62 Start: 44599, Stop: 44898, Start Num: 147

Candidate Starts for Teacup_62:

(Start: 147 @44599 has 153 MA's), (244, 44731), (246, 44734), (311, 44833),

Gene: Teacup_67 Start: 46335, Stop: 46598, Start Num: 147

Candidate Starts for Teacup_67:

(54, 46140), (73, 46185), (74, 46188), (77, 46197), (82, 46215), (Start: 92 @46236 has 2 MA's), (93, 46239), (105, 46266), (Start: 147 @46335 has 153 MA's), (317, 46557), (323, 46572),

Gene: Tempo_56 Start: 38215, Stop: 37919, Start Num: 142

Candidate Starts for Tempo_56:

(119, 38245), (Start: 135 @38218 has 1 MA's), (Start: 142 @38215 has 7 MA's), (Start: 153 @38203 has 40 MA's), (168, 38179), (178, 38164), (206, 38116), (220, 38107), (274, 38071), (294, 38029), (307, 38008),

Gene: Tenney120_69 Start: 43682, Stop: 43963, Start Num: 147
Candidate Starts for Tenney120_69:
(Start: 147 @43682 has 153 MA's), (Start: 174 @43709 has 4 MA's), (201, 43754), (229, 43790), (320, 43919),

Gene: Tenno_66 Start: 46419, Stop: 46703, Start Num: 147
Candidate Starts for Tenno_66:
(54, 46227), (58, 46236), (73, 46272), (74, 46275), (77, 46284), (82, 46302), (93, 46326), (Start: 147 @46419 has 153 MA's), (320, 46662),

Gene: Tenno_62 Start: 44837, Stop: 45127, Start Num: 147
Candidate Starts for Tenno_62:
(Start: 147 @44837 has 153 MA's), (244, 44969), (246, 44972),

Gene: Tessdabest_55 Start: 36420, Stop: 36818, Start Num: 88
Candidate Starts for Tessdabest_55:
(Start: 49 @36330 has 5 MA's), (68, 36366), (Start: 88 @36420 has 5 MA's), (185, 36573), (188, 36576), (210, 36603), (294, 36714), (299, 36720), (330, 36807),

Gene: Tipton_66 Start: 44692, Stop: 44985, Start Num: 147
Candidate Starts for Tipton_66:
(Start: 147 @44692 has 153 MA's),

Gene: Tipton_71 Start: 46456, Stop: 46728, Start Num: 147
Candidate Starts for Tipton_71:
(Start: 147 @46456 has 153 MA's), (289, 46636),

Gene: Togo_80 Start: 54018, Stop: 54371, Start Num: 152
Candidate Starts for Togo_80:
(Start: 152 @54018 has 32 MA's), (313, 54213),

Gene: Tokki_70 Start: 44723, Stop: 45016, Start Num: 147
Candidate Starts for Tokki_70:
(Start: 147 @44723 has 153 MA's),

Gene: Tokki_75 Start: 46487, Stop: 46759, Start Num: 147
Candidate Starts for Tokki_75:
(Start: 147 @46487 has 153 MA's), (289, 46667),

Gene: Tortellini_63 Start: 43457, Stop: 43750, Start Num: 143
Candidate Starts for Tortellini_63:
(31, 43202), (35, 43223), (60, 43301), (85, 43364), (106, 43400), (Start: 143 @43457 has 26 MA's), (178, 43511), (272, 43607), (294, 43646), (308, 43670), (330, 43739),

Gene: Tribby_40 Start: 28746, Stop: 29051, Start Num: 147
Candidate Starts for Tribby_40:
(Start: 147 @28746 has 153 MA's), (202, 28830), (231, 28872), (273, 28935),

Gene: Tribby_76 Start: 45227, Stop: 45535, Start Num: 143
Candidate Starts for Tribby_76:
(Start: 143 @45227 has 26 MA's), (218, 45329), (257, 45365), (290, 45428), (310, 45458),

Gene: TrixiePhattel_69 Start: 43311, Stop: 43595, Start Num: 147

Candidate Starts for TrixiePhattel_69:

(90, 43206), (Start: 92 @43209 has 2 MA's), (100, 43230), (107, 43242), (114, 43260), (127, 43281), (136, 43296), (Start: 147 @43311 has 153 MA's), (Start: 174 @43338 has 4 MA's), (182, 43356), (278, 43476),

Gene: Truckee_63 Start: 44439, Stop: 44735, Start Num: 147

Candidate Starts for Truckee_63:

(Start: 147 @44439 has 153 MA's), (244, 44571), (246, 44574), (311, 44670),

Gene: Truckee_68 Start: 46153, Stop: 46425, Start Num: 147

Candidate Starts for Truckee_68:

(Start: 147 @46153 has 153 MA's), (289, 46333), (317, 46384),

Gene: Trustiboi_61 Start: 44439, Stop: 44732, Start Num: 147

Candidate Starts for Trustiboi_61:

(Start: 147 @44439 has 153 MA's), (246, 44577),

Gene: Trustiboi_65 Start: 46015, Stop: 46278, Start Num: 147

Candidate Starts for Trustiboi_65:

(Start: 147 @46015 has 153 MA's), (207, 46093), (269, 46153), (323, 46252),

Gene: TunaTartare_69 Start: 56371, Stop: 56772, Start Num: 121

Candidate Starts for TunaTartare_69:

(Start: 121 @56371 has 7 MA's), (191, 56482), (209, 56509), (213, 56515), (226, 56545), (298, 56665), (315, 56704),

Gene: Twister6_81 Start: 52367, Stop: 52720, Start Num: 152

Candidate Starts for Twister6_81:

(Start: 152 @52367 has 32 MA's), (313, 52562),

Gene: U2_10 Start: 6601, Stop: 6915, Start Num: 156

Candidate Starts for U2_10:

(Start: 138 @6574 has 1 MA's), (Start: 156 @6601 has 21 MA's), (178, 6640), (194, 6649), (234, 6718), (282, 6793), (313, 6853),

Gene: Untouchable_2 Start: 479, Stop: 808, Start Num: 147

Candidate Starts for Untouchable_2:

(Start: 147 @479 has 153 MA's), (192, 545), (279, 686), (294, 713), (303, 725),

Gene: Uzumaki_65 Start: 43123, Stop: 43404, Start Num: 147

Candidate Starts for Uzumaki_65:

(Start: 147 @43123 has 153 MA's), (160, 43129), (Start: 174 @43150 has 4 MA's), (201, 43195), (229, 43231), (320, 43360),

Gene: Valary_81 Start: 53764, Stop: 54165, Start Num: 152

Candidate Starts for Valary_81:

(Start: 152 @53764 has 32 MA's), (178, 53812), (294, 53971), (308, 53995), (313, 54007),

Gene: Vivum_96 Start: 55102, Stop: 55383, Start Num: 153

Candidate Starts for Vivum_96:

(17, 54691), (20, 54712), (22, 54733), (24, 54763), (Start: 153 @55102 has 40 MA's), (178, 55147), (203, 55165), (294, 55282),

Gene: Vordorf_53 Start: 39065, Stop: 39475, Start Num: 86

Candidate Starts for Vordorf_53:

(12, 38624), (21, 38795), (38, 38936), (70, 39017), (72, 39023), (86, 39065), (118, 39131), (176, 39221), (188, 39242), (240, 39278),

Gene: Westerlin_65 Start: 47104, Stop: 47367, Start Num: 147

Candidate Starts for Westerlin_65:

(Start: 147 @47104 has 153 MA's), (207, 47182), (269, 47242), (323, 47341),

Gene: Westerlin_61 Start: 45519, Stop: 45818, Start Num: 147

Candidate Starts for Westerlin_61:

(Start: 147 @45519 has 153 MA's), (244, 45651), (246, 45654), (311, 45753),

Gene: Whouxphf_100 Start: 54173, Stop: 54454, Start Num: 153

Candidate Starts for Whouxphf_100:

(17, 53762), (20, 53783), (22, 53804), (24, 53834), (Start: 153 @54173 has 40 MA's), (178, 54218), (203, 54236), (294, 54353),

Gene: Wilde_9 Start: 3901, Stop: 4275, Start Num: 147

Candidate Starts for Wilde_9:

(Start: 147 @3901 has 153 MA's), (Start: 190 @3973 has 1 MA's), (191, 3976), (198, 3985), (233, 4045), (257, 4090), (269, 4117), (294, 4168), (322, 4237),

Gene: Wizard_77 Start: 52852, Stop: 53223, Start Num: 152

Candidate Starts for Wizard_77:

(61, 52669), (Start: 152 @52852 has 32 MA's), (294, 53029), (308, 53053),

Gene: Wojtek_85 Start: 64679, Stop: 65014, Start Num: 128

Candidate Starts for Wojtek_85:

(Start: 128 @64679 has 2 MA's), (132, 64688), (144, 64697), (Start: 152 @64706 has 32 MA's), (178, 64754), (294, 64907), (308, 64931), (332, 65000),

Gene: Xenomorph_69 Start: 44753, Stop: 45061, Start Num: 143

Candidate Starts for Xenomorph_69:

(Start: 143 @44753 has 26 MA's), (218, 44855), (257, 44891), (290, 44954), (310, 44984),

Gene: Xenomorph_37 Start: 28725, Stop: 29030, Start Num: 147

Candidate Starts for Xenomorph_37:

(Start: 147 @28725 has 153 MA's), (231, 28851), (273, 28914),

Gene: Xerxes_55 Start: 36284, Stop: 36682, Start Num: 88

Candidate Starts for Xerxes_55:

(Start: 49 @36194 has 5 MA's), (68, 36230), (Start: 88 @36284 has 5 MA's), (185, 36437), (188, 36440), (210, 36467), (294, 36578), (299, 36584), (330, 36671),

Gene: Yorick_92 Start: 54408, Stop: 54689, Start Num: 153

Candidate Starts for Yorick_92:

(17, 53997), (20, 54018), (22, 54039), (24, 54069), (Start: 153 @54408 has 40 MA's), (178, 54453), (203, 54471), (294, 54588),

Gene: YoshiYama_74 Start: 45322, Stop: 45633, Start Num: 143

Candidate Starts for YoshiYama_74:

(Start: 143 @45322 has 26 MA's), (184, 45385), (257, 45463), (266, 45484), (281, 45508), (290, 45526), (310, 45556),

Gene: YoshiYama_40 Start: 28969, Stop: 29277, Start Num: 147

Candidate Starts for YoshiYama_40:

(Start: 147 @28969 has 153 MA's),

Gene: YungMoney_79 Start: 54400, Stop: 54783, Start Num: 152

Candidate Starts for YungMoney_79:

(Start: 152 @54400 has 32 MA's), (214, 54496), (303, 54604), (330, 54682),

Gene: Yvonnetastic_136 Start: 75890, Stop: 76258, Start Num: 163

Candidate Starts for Yvonnetastic_136:

(Start: 163 @75890 has 3 MA's), (180, 75920), (188, 75935), (192, 75941), (Start: 208 @75965 has 1 MA's), (236, 76016), (292, 76136), (294, 76139), (308, 76163), (333, 76244),

Gene: Yvonnetastic_137 Start: 76255, Stop: 76590, Start Num: 157

Candidate Starts for Yvonnetastic_137:

(Start: 157 @76255 has 4 MA's), (197, 76324), (206, 76339), (245, 76396), (259, 76423), (300, 76489),

Gene: Zeina_70 Start: 43817, Stop: 44101, Start Num: 147

Candidate Starts for Zeina_70:

(Start: 147 @43817 has 153 MA's), (Start: 174 @43844 has 4 MA's), (278, 43982),

Gene: Zippen_67 Start: 45128, Stop: 45418, Start Num: 147

Candidate Starts for Zippen_67:

(Start: 147 @45128 has 153 MA's), (232, 45245), (244, 45260), (246, 45263), (291, 45320), (312, 45356),

Gene: Zippen_71 Start: 46707, Stop: 46982, Start Num: 147

Candidate Starts for Zippen_71:

(55, 46512), (69, 46539), (76, 46563), (77, 46566), (102, 46629), (105, 46635), (118, 46662), (Start: 147 @46707 has 153 MA's), (201, 46779), (203, 46782), (289, 46890), (317, 46941),

Gene: Zizzle_99 Start: 55058, Stop: 55339, Start Num: 153

Candidate Starts for Zizzle_99:

(17, 54647), (20, 54668), (22, 54689), (24, 54719), (Start: 153 @55058 has 40 MA's), (178, 55103), (203, 55121), (294, 55238), (313, 55274),