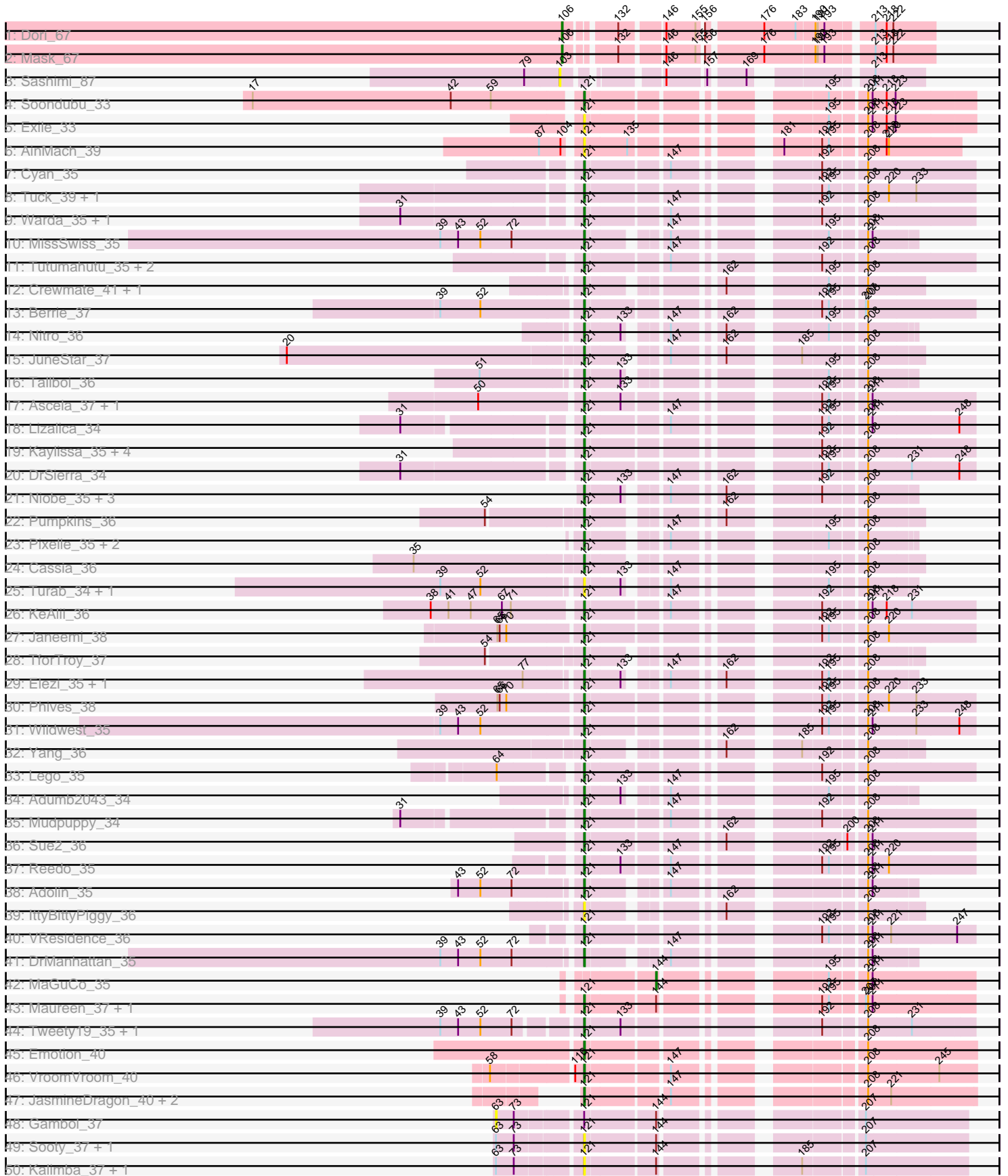
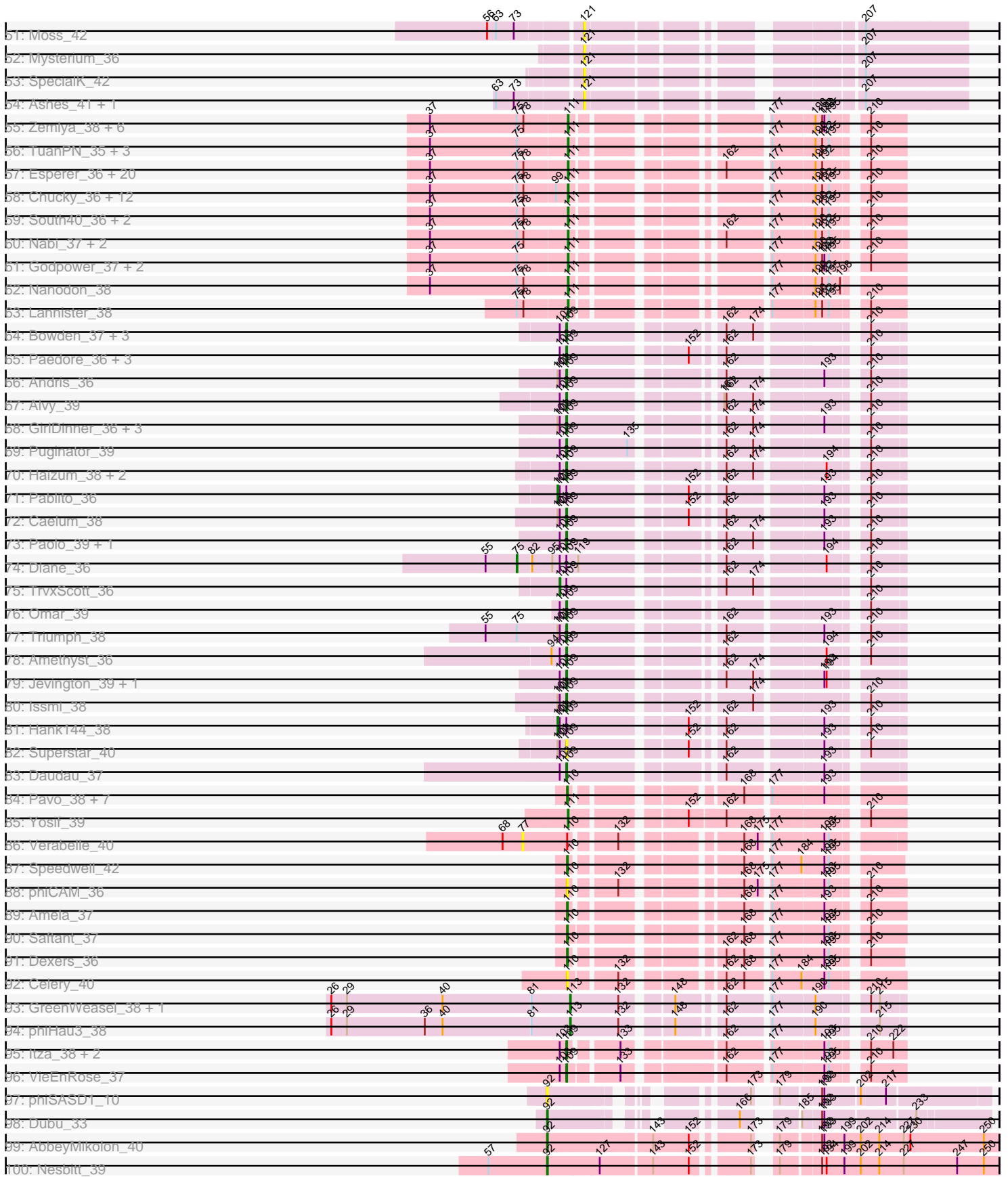


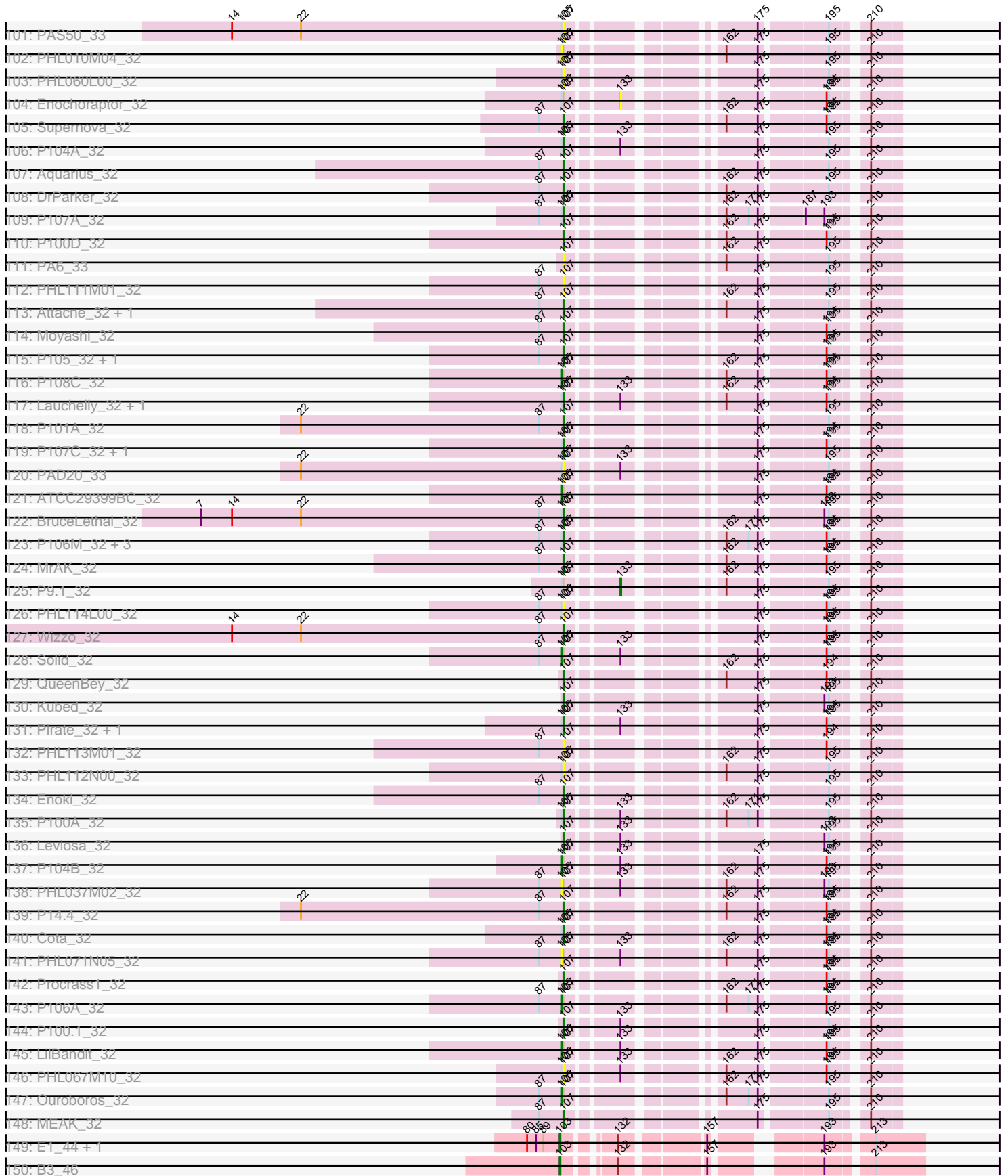
Pham 196171



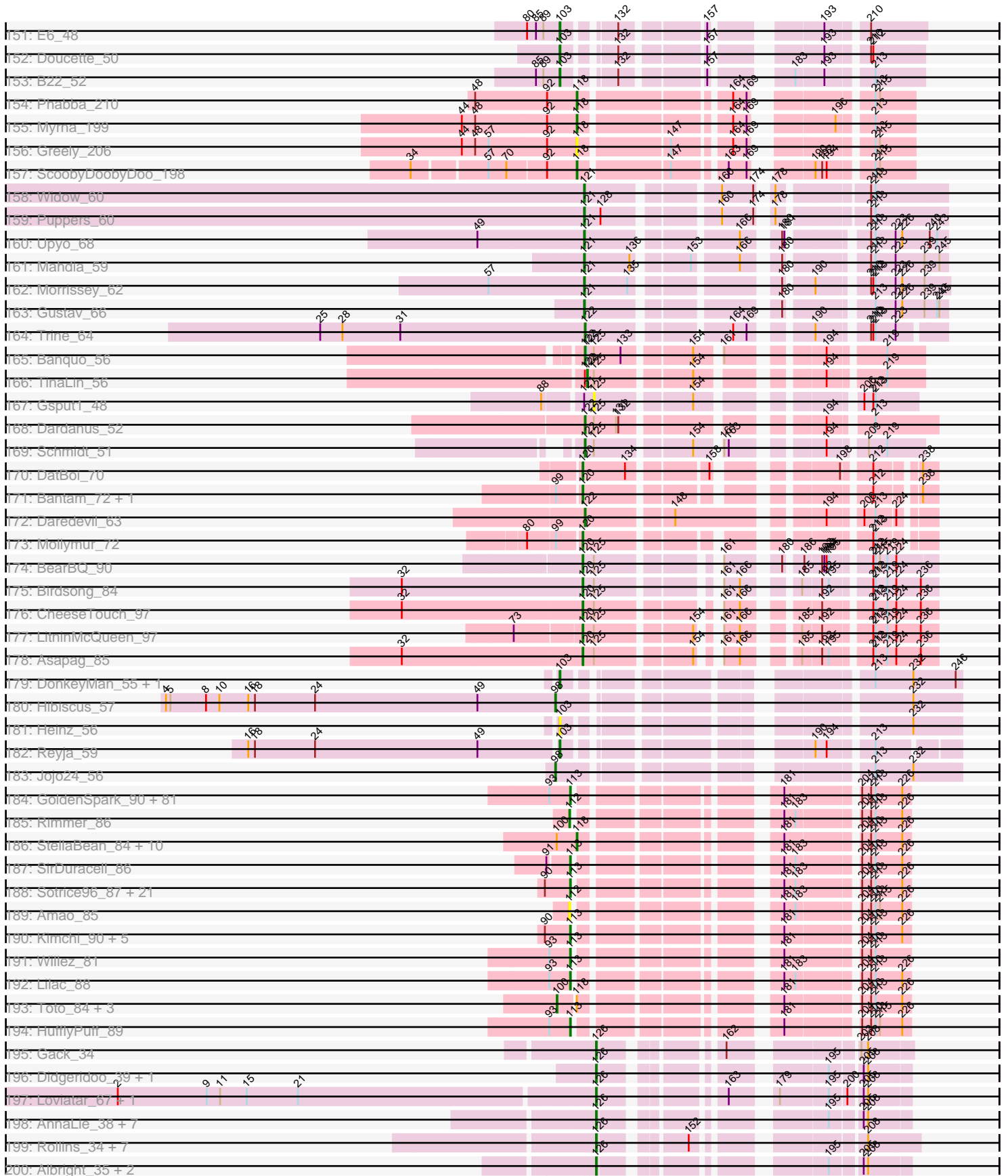
Pham 196171



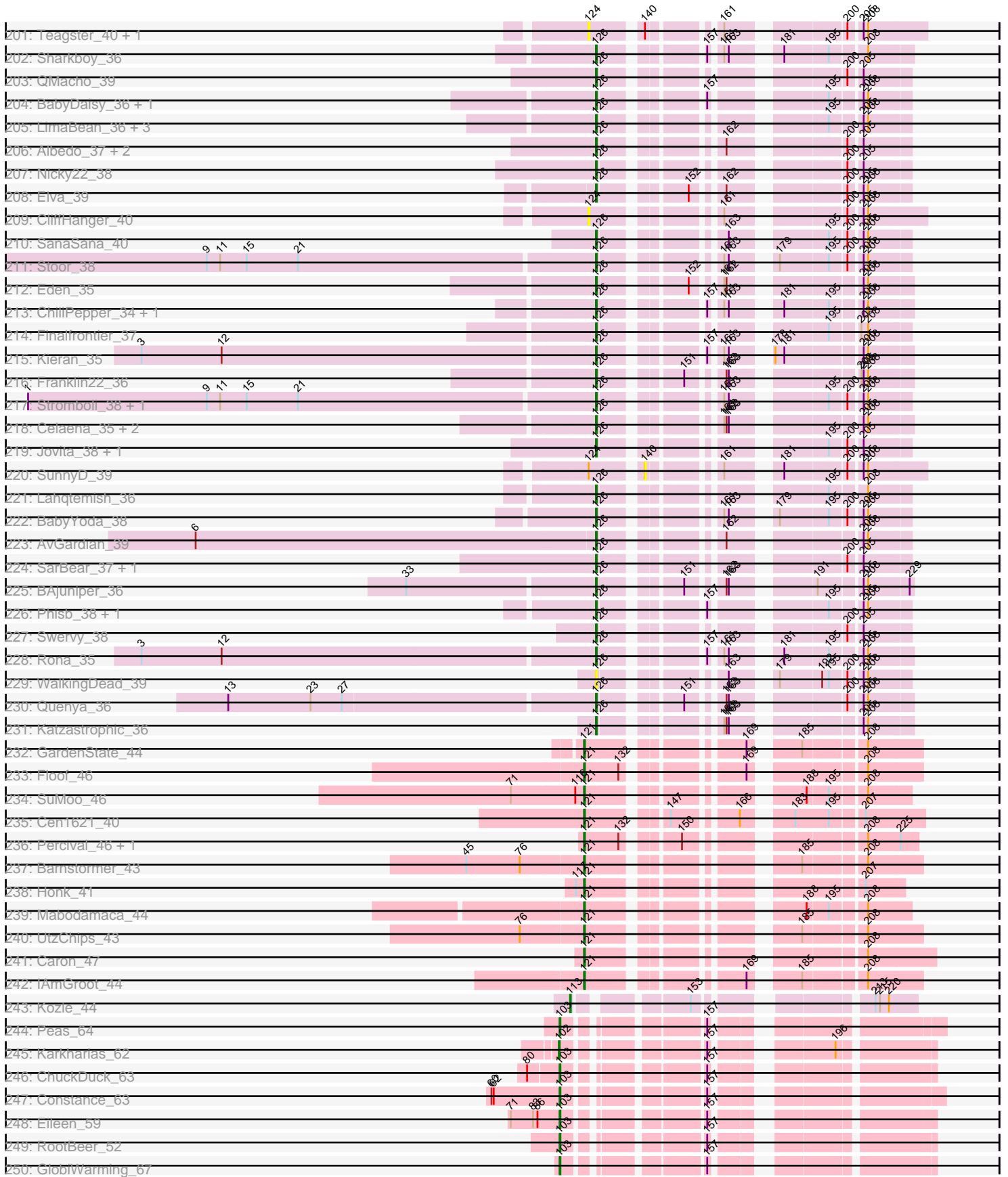
Pham 196171



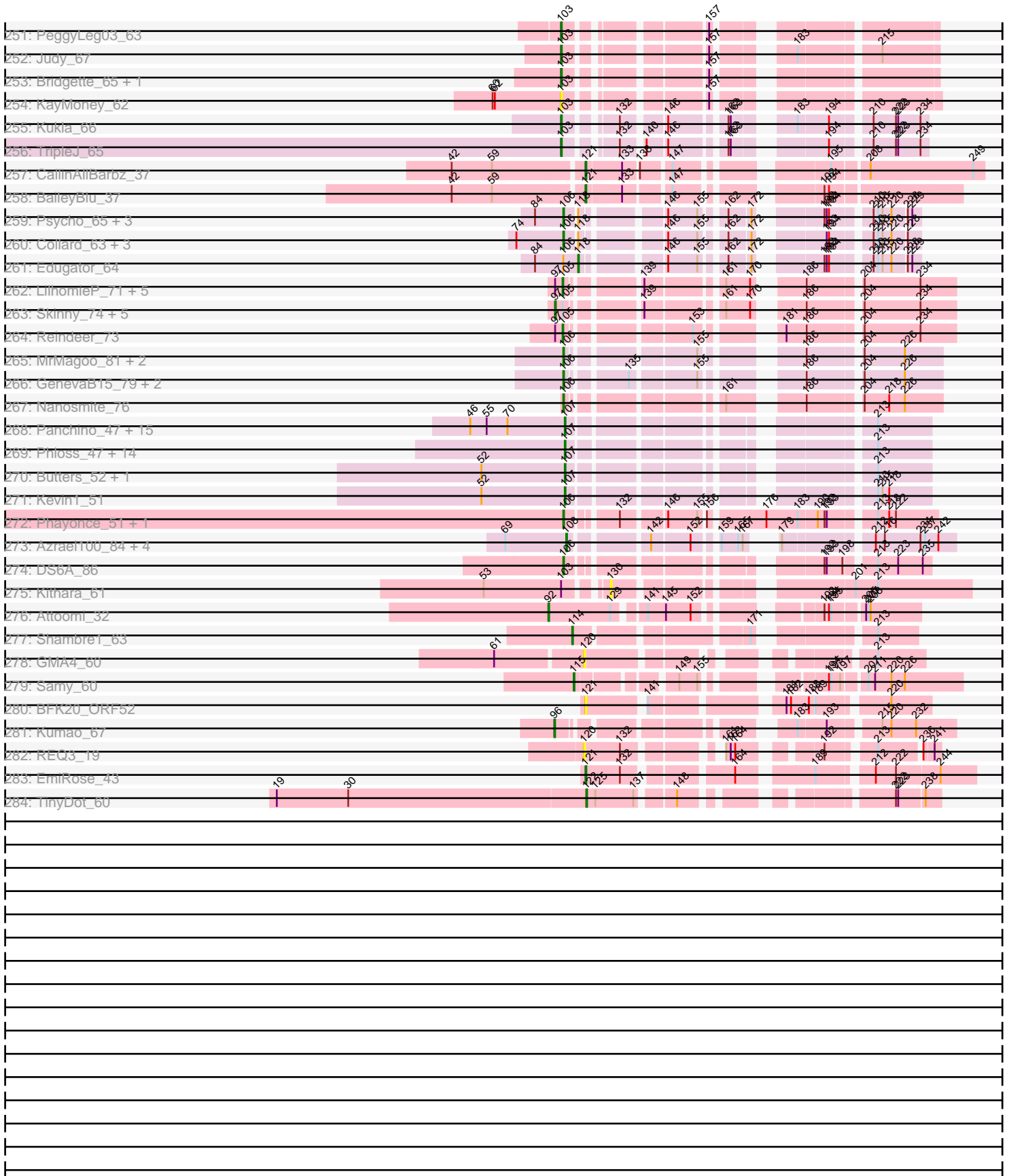
Pham 196171



Pham 196171



Pham 196171



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 196171 Report

This analysis was run 12/09/24 on database version 580.

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

Pham number 196171 has 598 members, 71 are drafts.

Phages represented in each track:

- Track 1 : Dori_67
- Track 2 : Mask_67
- Track 3 : Sashimi_87
- Track 4 : Soondubu_33
- Track 5 : Exile_33
- Track 6 : AinMach_39
- Track 7 : Cyan_35
- Track 8 : Tuck_39, Community_38
- Track 9 : Warda_35, Tbone_34
- Track 10 : MissSwiss_35
- Track 11 : Tutumahutu_35, Joemato_35, Simpson_37
- Track 12 : Crewmate_41, ObiToo_40
- Track 13 : Berrie_37
- Track 14 : Nitro_36
- Track 15 : JuneStar_37
- Track 16 : Tallboi_36
- Track 17 : Ascela_37, Iter_37
- Track 18 : Lizalica_34
- Track 19 : Kaylissa_35, AGrandiflora_36, YesChef_35, JohnDoe_35, Powerpuff_37
- Track 20 : DrSierra_34
- Track 21 : Niobe_35, Jstan_37, Eraser_35, Asa16_35
- Track 22 : Pumpkins_36
- Track 23 : Pixelle_35, Amyev_35, Tian_35
- Track 24 : Cassia_36
- Track 25 : Turab_34, AEgle_34
- Track 26 : KeAlii_36
- Track 27 : Janeemi_38
- Track 28 : TforTroy_37
- Track 29 : Elezi_35, London_35
- Track 30 : Phives_38
- Track 31 : Wildwest_35
- Track 32 : Yang_36
- Track 33 : Lego_35

- Track 34 : Adumb2043_34
- Track 35 : Mudpuppy_34
- Track 36 : Sue2_36
- Track 37 : Reedo_35
- Track 38 : Adolin_35
- Track 39 : IttyBittyPiggy_36
- Track 40 : VResidence_36
- Track 41 : DrManhattan_35
- Track 42 : MaGuCo_35
- Track 43 : Maureen_37, Liebe_37
- Track 44 : Tweety19_35, Snek_35
- Track 45 : Emotion_40
- Track 46 : VroomVroom_40
- Track 47 : JasmineDragon_40, ShakeltOph_42, MiniMommy_42
- Track 48 : Gambol_37
- Track 49 : Sooty_37, Cappuccino_37
- Track 50 : Kalimba_37, Donkey_37
- Track 51 : Moss_42
- Track 52 : Mysterium_36
- Track 53 : SpecialK_42
- Track 54 : Ashes_41, Halsey_45
- Track 55 : Zemlya_38, Toma_36, Brataylor_39, Dattran_38, Goby_36, Celeste_37, Danzina_38
- Track 56 : TuanPN_35, Yasdnil_36, Maneekul_36, Ejemplo_35
- Track 57 : Esperer_36, Phettuccine_36, Caliburn_36, EnochSoames_39, Hydra_38, Izzy_37, Bovely_36, Eddasa_37, Oliynyk_37, Rusticus_37, Legacy_36, Nerdos_35, Unstoppable_36, Leviticus_36, Aaronocolus_36, BryanRecycles_37, Ozzie_36, BeardedLady_37, SunsetPointe_36, Jash_37, Indigo_35
- Track 58 : Chucky_36, BarryBee_39, OzzyJ_37, Asten_36, Werner_36, Dwayne_36, TagePhighter_38, Hippo_36, Triste_36, Snorlax_36, SarahRose_36, Whatever_36, Emaanora_39
- Track 59 : South40_36, RedBear_37, Katalie_36
- Track 60 : Nabi_37, Lorelei_37, Rana_37
- Track 61 : Godpower_37, Lika_36, Sujidade_37
- Track 62 : Nanodon_38
- Track 63 : Lannister_38
- Track 64 : Bowden_37, TinaBelcher_37, Thestral_38, BartholomewSD_39
- Track 65 : Paedore_36, R4_37, ELB20_35, Loofah_37
- Track 66 : Andris_36
- Track 67 : Alvy_39
- Track 68 : GirlDinner_36, Animus_36, SqueakyClean_36, Janus_37
- Track 69 : Puginator_39
- Track 70 : Haizum_38, Tefunt_38, Nishikigoi_38
- Track 71 : Pablito_36
- Track 72 : Caelum_38
- Track 73 : Paolo_39, Zainub_39
- Track 74 : Diane_36
- Track 75 : TrvxScott_36
- Track 76 : Omar_39
- Track 77 : Triumph_38
- Track 78 : Amethyst_36
- Track 79 : Jevington_39, Marav_40
- Track 80 : Issmi_38

- Track 81 : Hank144_38
- Track 82 : Superstar_40
- Track 83 : Daudau_37
- Track 84 : Pavo_38, Vanseggelen_42, Kaine_37, Conan_38, Alsaber_38, ElGato_38, Provolone_38, Verse_37
- Track 85 : Yosif_39
- Track 86 : Verabelle_40
- Track 87 : Speedwell_42
- Track 88 : phiCAM_36
- Track 89 : Amela_37
- Track 90 : Saftant_37
- Track 91 : Dexers_36
- Track 92 : Celery_40
- Track 93 : GreenWeasel_38, BroPlease_37
- Track 94 : phiHau3_38
- Track 95 : Itza_38, Celia_38, Urza_38
- Track 96 : VieEnRose_37
- Track 97 : phiSASD1_10
- Track 98 : Dubu_33
- Track 99 : AbbeyMikolon_40
- Track 100 : Nesbitt_39
- Track 101 : PAS50_33
- Track 102 : PHL010M04_32
- Track 103 : PHL060L00_32
- Track 104 : Enochoraptor_32
- Track 105 : Supernova_32
- Track 106 : P104A_32
- Track 107 : Aquarius_32
- Track 108 : DrParker_32
- Track 109 : P107A_32
- Track 110 : P100D_32
- Track 111 : PA6_33
- Track 112 : PHL111M01_32
- Track 113 : Attacne_32, SKKY_32
- Track 114 : Moyashi_32
- Track 115 : P105_32, Stormborn_32
- Track 116 : P108C_32
- Track 117 : Lauchelly_32, Rileysaurus_31
- Track 118 : P101A_32
- Track 119 : P107C_32, ATCC29399BT_32
- Track 120 : PAD20_33
- Track 121 : ATCC29399BC_32
- Track 122 : BruceLethal_32
- Track 123 : P106M_32, P106L_32, P106I_32, P106C_33
- Track 124 : MrAK_32
- Track 125 : P9.1_32
- Track 126 : PHL114L00_32
- Track 127 : Wizzo_32
- Track 128 : Solid_32
- Track 129 : QueenBey_32
- Track 130 : Kubed_32
- Track 131 : Pirate_32, Keiki_32
- Track 132 : PHL113M01_32

- Track 133 : PHL112N00_32
- Track 134 : Enoki_32
- Track 135 : P100A_32
- Track 136 : Leviosa_32
- Track 137 : P104B_32
- Track 138 : PHL037M02_32
- Track 139 : P14.4_32
- Track 140 : Cota_32
- Track 141 : PHL071N05_32
- Track 142 : Procrass1_32
- Track 143 : P106A_32
- Track 144 : P100.1_32
- Track 145 : LilBandit_32
- Track 146 : PHL067M10_32
- Track 147 : Ouroboros_32
- Track 148 : MEAK_32
- Track 149 : E1_44, Anatole_44
- Track 150 : B3_46
- Track 151 : E6_48
- Track 152 : Doucette_50
- Track 153 : B22_52
- Track 154 : Phabba_210
- Track 155 : Myrna_199
- Track 156 : Greely_206
- Track 157 : ScoobyDoobyDoo_198
- Track 158 : Widow_60
- Track 159 : Puppets_60
- Track 160 : Upyo_68
- Track 161 : Mahdia_59
- Track 162 : Morrissey_62
- Track 163 : Gustav_66
- Track 164 : Trine_64
- Track 165 : Banquo_56
- Track 166 : TinaLin_56
- Track 167 : Gsput1_48
- Track 168 : Dardanus_52
- Track 169 : Schmidt_51
- Track 170 : DatBoi_70
- Track 171 : Bantam_72, SpeedDemon_740
- Track 172 : Daredevil_63
- Track 173 : Mollymur_72
- Track 174 : BearBQ_90
- Track 175 : Birdsong_84
- Track 176 : CheeseTouch_97
- Track 177 : LitninMcQueen_97
- Track 178 : Asapag_85
- Track 179 : DonkeyMan_55, Tarzan_57
- Track 180 : Hibiscus_57
- Track 181 : Heinz_56
- Track 182 : Reyja_59
- Track 183 : Jojo24_56
- Track 184 : GoldenSpark_90, Lilizi_87, Palpatine_88, FairyPath_86, NelitzaMV_84, Contagion_82, Pharsalus_83, TeardropMSU_82, Kostya_86, Policronamos_90,

Stank_89, Emmina_86, Holt_91, Elph10_86, Gemini_91, Bruin_83, Maxxinista_88, NoSleep_87, Bench_89, Argent26_90, FireRed_90, Lilpickle_85, Misfit_87, Terminus_89, Phaja_84, Goku_85, Cjw1_86, TBrady12_89, Buck_87, BadStone_83, GooberAzure_89, Simpliphy_85, DrDrey_86, Xandras_85, MadamMonkfish_86, Murica_89, BugsBunny_86, Miniwave_81, JeTaima_86, IHOP_84, MPhalcon_87, Filch_87, Porky_85, Tarkin_85, ShereKhan_84, Czyszczonek_87, Hopey_86, Mosby_82, Dusk_83, Qualification_87, AmericanBeauty_90, Stark_87, RiverMonster_86, Sassay_81, Elite2014_85, Eureka_85, Kanye_83, Murphy_86, xkcd_89, Phaux_88, Highbury_85, PhatBacter_90, HanKaySha_86, Tuco_87, MISSy_87, Petra64142_90, Thresher_88, Command613_88, ChosenOne_86, Marshmallow_84, Youngblood_89, Ukulele_81, Tomaszewski_81, Nimrod_87, Pumpkin_89, SophKB_83, Paperbeatsrock_85, Nala_88, OrionPax_85, ABCat_83, Dumbo_86, Saints25_85

- Track 185 : Rimmer_86
- Track 186 : StellaBean_84, BaboJay_84, Manda_88, 244_87, Inca_83, Phrux_83, CrystalP_85, YassJohnny_83, ShamWow_86, Henry_84, Teaspoon_87
- Track 187 : SirDuracell_86
- Track 188 : Sotrice96_87, Asriel_85, Bask21_86, Moldemort_89, Flypotenuse_82, DoctorDiddles_85, ChotaBhai_86, Cookies_83, Cactus_89, Pat3_84, Icee_87, Daikon_88, Balomoji_86, Harella_86, Hoonter_89, Barbarian_85, Glexan_85, BigBubba_86, Adnama_90, Traaww1_82, Gator_84, Wiggin_88
- Track 189 : Amao_85
- Track 190 : Kimchi_90, Rakim_87, StolenFromERC_89, Goldilocks_89, Myrale_86, Gage_88
- Track 191 : Willez_81
- Track 192 : Lilac_88
- Track 193 : Toto_84, BilboSwaggins_85, Easy2Say_87, Mindy_85
- Track 194 : HufflyPuff_89
- Track 195 : Gack_34
- Track 196 : Didgeridoo_39, Kate33_36
- Track 197 : Loviatar_67, Icarian_40
- Track 198 : AnnaLie_38, Burritobowl_37, Arroyo_38, IndyLu_36, BelmontSKP_38, CroZenni_37, DickRichards_36, Johnathan_36
- Track 199 : Rollins_34, Skylord_34, Vitas_34, Brahms_34, Bernstein_34, Armstrong_34, Coltrane_34, Clayda5_35
- Track 200 : Albright_35, Doobus_36, Avocadoman_36
- Track 201 : Teagster_40, Shayna_37
- Track 202 : Sharkboy_36
- Track 203 : QMacho_39
- Track 204 : BabyDaisy_36, Cashington_35
- Track 205 : LimaBean_36, Abigail_36, BubbaBear_36, SansAfet_38
- Track 206 : Albedo_37, Kenzers_37, Lynlen_37
- Track 207 : Nicky22_38
- Track 208 : Elva_39
- Track 209 : CliffHanger_40
- Track 210 : SanaSana_40
- Track 211 : Stoor_38
- Track 212 : Eden_35
- Track 213 : ChiliPepper_34, Dismas_35
- Track 214 : Finalfrontier_37
- Track 215 : Kieran_35
- Track 216 : Franklin22_36
- Track 217 : Stromboli_38, DirtyBubble_37

- Track 218 : Celaena_35, Bachaco_35, FlameThrower_35
- Track 219 : Jovita_38, Eula_38
- Track 220 : SunnyD_39
- Track 221 : Lahqtemish_36
- Track 222 : BabyYoda_38
- Track 223 : AvGardian_39
- Track 224 : SarBear_37, Slay_38
- Track 225 : BAjuniper_36
- Track 226 : Phisb_38, TukTuk_38
- Track 227 : Swervy_38
- Track 228 : Rona_35
- Track 229 : WalkingDead_39
- Track 230 : Quenya_36
- Track 231 : Katzastrophic_36
- Track 232 : GardenState_44
- Track 233 : Floof_46
- Track 234 : SuMoo_46
- Track 235 : Cen1621_40
- Track 236 : Percival_46, Gretchen_45
- Track 237 : Barnstormer_43
- Track 238 : Honk_41
- Track 239 : Mabodamaca_44
- Track 240 : UtzChips_43
- Track 241 : Caron_47
- Track 242 : IAmGroot_44
- Track 243 : Kozie_44
- Track 244 : Peas_64
- Track 245 : Karkharias_62
- Track 246 : ChuckDuck_63
- Track 247 : Constance_63
- Track 248 : Eileen_59
- Track 249 : RootBeer_52
- Track 250 : GlobiWarming_67
- Track 251 : PeggyLeg03_63
- Track 252 : Judy_67
- Track 253 : Bridgette_65, Pucara_59
- Track 254 : KayMoney_62
- Track 255 : Kukla_66
- Track 256 : TripleJ_65
- Track 257 : CallinAllBarbz_37
- Track 258 : BaileyBlu_37
- Track 259 : Psycho_65, AlleyCat_67, Dadosky_67, Larva_66
- Track 260 : Collard_63, Kratio_63, Agent47_65, InvictusManeo_63
- Track 261 : Edugator_64
- Track 262 : LilhomieP_71, PegLeg_70, Auspice_71, Bongo_71, Bricole_70, IPhane7_71
- Track 263 : Skinny_74, SlimJimmy_71, Dulcita_72, Glaske16_73, Diminimus_72, TyDawg_71
- Track 264 : Reindeer_73
- Track 265 : MrMagoo_81, GardenSalsa_80, Rey_78
- Track 266 : GenevaB15_79, Estes_80, Aziz_78
- Track 267 : Nanosmite_76

- Track 268 : Panchino_47, BabeRuth_55, ShrimpFriedEgg_54, Jamie19_48, Redi_54, PhancyPhin_54, SpongeBob_48, Charlie_50, Bosection6_50, Phrann_51, Nenae_54, Purgamenstris_54, Raymond7_48, Hanako_54, Andies_47, Snekmaggedon_48
- Track 269 : Phloss_47, Pipsqueaks_49, Smurph_49, Schnauzer_50, Carcharodon_49, Parmesanjohn_49, Chewbacca_51, Melville_52, Fulbright_48, Xerxes_49, Silvafighter_50, Magsby_49, Duplicity_49, Gex_49, Tapioca_51
- Track 270 : Butters_52, Rubeelu_52
- Track 271 : Kevin1_51
- Track 272 : Phayonce_51, Mao1_69
- Track 273 : Azrael100_84, Wildcat_85, MaryV_85, EniyanLRS_81, Cosmo_85
- Track 274 : DS6A_86
- Track 275 : Kithara_61
- Track 276 : Attoomi_32
- Track 277 : Shambre1_63
- Track 278 : GMA4_60
- Track 279 : Samy_60
- Track 280 : BFK20_ORF52
- Track 281 : Kumao_67
- Track 282 : REQ3_19
- Track 283 : EmiRose_43
- Track 284 : TinyDot_60

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

The start number called the most often in the published annotations is 113, it was called in 112 of the 527 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABCat_83, Adnama_90, AmericanBeauty_90, Argent26_90, Asriel_85, BadStone_83, Balomoji_86, Barbarian_85, Bask21_86, Bench_89, BigBubba_86, BroPlease_37, Bruin_83, Buck_87, BugsBunny_86, Cactus_89, ChosenOne_86, ChotaBhai_86, Cjw1_86, Command613_88, Contagion_82, Cookies_83, Czyszczon1_87, Daikon_88, DoctorDiddles_85, DrDrey_86, Dumbo_86, Dusk_83, Elite2014_85, Elph10_86, Emmina_86, Eureka_85, FairyPath_86, Filch_87, FireRed_90, Flypotenuse_82, Gage_88, Gator_84, Gemini_91, Glexan_85, Goku_85, GoldenSpark_90, Goldilocks_89, GooberAzure_89, GreenWeasel_38, HanKaySha_86, Harella_86, Highbury_85, Holt_91, Hoonter_89, Hopey_86, HuffyPuff_89, IHOP_84, Icee_87, JeTaime_86, Kanye_83, Kimchi_90, Kostya_86, Kozie_44, Lilac_88, Lilizi_87, Lilpickle_85, MISSy_87, MPhalcon_87, MadamMonkfish_86, Marshmallow_84, Maxxinista_88, Miniwave_81, Misfit_87, Moldemort_89, Mosby_82, Murica_89, Murphy_86, Myrale_86, Nala_88, NelitzaMV_84, Nimrod_87, NoSleep_87, OrionPax_85, Palpatine_88, Paperbeatsrock_85, Pat3_84, Petra64142_90, Phaja_84, Pharsalus_83, PhatBacter_90, Phaux_88, Policronamos_90, Porky_85, Pumpkin_89, Quallification_87, Rakim_87, RiverMonster_86, Saints25_85, Sassay_81, ShereKhan_84, Simpliphy_85, SirDuracell_86, SophKB_83, Sotrice96_87, Stank_89, Stark_87, StolenFromERC_89, TBrady12_89, Tarkin_85, TeardropMSU_82, Terminus_89, Thresher_88, Tomaszewski_81, Traaww1_82, Tuco_87, Ukulele_81, Wiggin_88, Willez_81, Xandras_85, Youngblood_89, phiHau3_38, xkcd_89,

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

-

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

- 244_87, AEgle_34, AGrandiflora_36, ATCC29399BC_32, ATCC29399BT_32, Aaronocolus_36, AbbeyMikolon_40, Abigail_36, Adolin_35, Adumb2043_34, Agent47_65, AinMach_39, Albedo_37, Albright_35, AlleyCat_67, Alsaber_38, Alvy_39, Amao_85, Amela_37, Amethyst_36, Amyev_35, Anatole_44, Andies_47, Andris_36, Animus_36, AnnaLie_38, Aquarius_32, Armstrong_34, Arroyo_38, Asa16_35, Asapag_85, Ascela_37, Ashes_41, Asten_36, Attacne_32, Attoomi_32, Auspice_71, AvGardian_39, Avocadoman_36, Aziz_78, Azrael100_84, B22_52, B3_46, BAjuniper_36, BFK20_ORF52, BabeRuth_55, BaboJay_84, BabyDaisy_36, BabyYoda_38, Bachaco_35, BaileyBlu_37, Banquo_56, Bantam_72, Barnstormer_43, BarryBee_39, BartholomewSD_39, BearBQ_90, BeardedLady_37, BelmontSKP_38, Bernstein_34, Berrie_37, BilboSwaggins_85, Birdsong_84, Bongo_71, Bosection6_50, Bovely_36, Bowden_37, Brahms_34, Brataylor_39, Bricole_70, Bridgette_65, BruceLethal_32, BryanRecycles_37, BubbaBear_36, Burritobowl_37, Butters_52, Caelum_38, Caliburn_36, CallinAllBarbz_37, Cappuccino_37, Carcharodon_49, Caron_47, Cashington_35, Cassia_36, Celaena_35, Celery_40, Celeste_37, Celia_38, Cen1621_40, Charlie_50, CheeseTouch_97, Chewbacca_51, ChiliPepper_34, ChuckDuck_63, Chucky_36, Clayda5_35, CliffHanger_40, Collard_63, Coltrane_34, Community_38, Conan_38, Constance_63, Cosmo_85, Cota_32, Crewmate_41, CroZenni_37, CrystalP_85, Cyan_35, DS6A_86, Dadosky_67, Danzina_38, Dardanus_52, Daredevil_63, DatBoi_70, Dattran_38, Daudau_37, Dexters_36, Diane_36, DickRichards_36, Didgeridoo_39, Diminimus_72, DirtyBubble_37, Dismas_35, DonkeyMan_55, Donkey_37, Doobus_36, Dori_67, Doucette_50, DrManhattan_35, DrParker_32, DrSierra_34, Dubu_33, Dulcita_72, Duplicity_49, Dwayne_36, E1_44, E6_48, ELB20_35, Easy2Say_87, Eddasa_37, Eden_35, Edugator_64, Eileen_59, Ejemplo_35, ElGato_38, Elezi_35, Elva_39, Emaanora_39, EmiRose_43, Emotion_40, EniyanLRS_81, EnochSoames_39, Enochoraptor_32, Enoki_32, Eraser_35, Esperer_36, Estes_80, Eula_38, Exile_33, Finalfrontier_37, FlameThrower_35, Floof_46, Franklin22_36, Fulbright_48, GMA4_60, Gack_34, Gambol_37, GardenSalsa_80, GardenState_44, GenevaB15_79, Gex_49, GirlDinner_36, Glaske16_73, GlobiWarming_67, Goby_36, Godpower_37, Greely_206, Gretchen_45, Gspu1_48, Gustav_66, Haizum_38, Halsey_45, Hanako_54, Hank144_38, Heinz_56, Henry_84, Hibiscus_57, Hippo_36, Honk_41, Hydra_38, IAmGroot_44, IPHane7_71, Icarian_40, Inca_83, Indigo_35, IndyLu_36, InvictusManeo_63, Issmi_38, Iter_37, IttyBittyPiggy_36, Itza_38, Izzy_37, Jamie19_48, Janeemi_38, Janus_37, Jash_37, JasmineDragon_40, Jevington_39, Joemato_35, JohnDoe_35, Johnathan_36, Jojo24_56, Jovita_38, Jstan_37, Judy_67, JuneStar_37, Kaine_37, Kalimba_37, Karkharias_62, Katalie_36, Kate33_36, Katzastrophic_36, KayMoney_62, Kaylissa_35, KeAlii_36, Keiki_32, Kenzers_37, Kevin1_51, Kieran_35, Kithara_61, Kratio_63, Kubed_32, Kukla_66, Kumao_67, Lahqtemish_36, Lannister_38, Larva_66, Lauchelly_32, Legacy_36, Lego_35, Leviosa_32, Leviticus_36, Liebe_37, Lika_36, LilBandit_32, LilhomieP_71, LimaBean_36, LitninMcQueen_97, Lizalica_34, London_35, Loofah_37, Lorelei_37, Loviatar_67, Lynlen_37, MEAK_32, MaGuCo_35, Mabodamaca_44, Magsby_49, Mahdia_59, Manda_88, Maneeekul_36, Mao1_69, Marav_40, MaryV_85, Mask_67, Maureen_37, Melville_52, Mindy_85, MiniMommy_42, MissSwiss_35, Mollymur_72, Morrissey_62, Moss_42, Moyashi_32, MrAK_32, MrMagoo_81, Mudpuppy_34, Myrna_199, Mysterium_36, Nabi_37, Nanodon_38, Nanosmite_76, Nenae_54,

Nerdos_35, Nesbitt_39, Nicky22_38, Niobe_35, Nishikigoi_38, Nitro_36, ObiToo_40, Oliynyk_37, Omar_39, Ouroboros_32, Ozzie_36, OzzyJ_37, P100.1_32, P100A_32, P100D_32, P101A_32, P104A_32, P104B_32, P105_32, P106A_32, P106C_33, P106L_32, P106L_32, P106M_32, P107A_32, P107C_32, P108C_32, P14.4_32, P9.1_32, PA6_33, PAD20_33, PAS50_33, PHL010M04_32, PHL037M02_32, PHL060L00_32, PHL067M10_32, PHL071N05_32, PHL111M01_32, PHL112N00_32, PHL113M01_32, PHL114L00_32, Pablito_36, Paedore_36, Panchino_47, Paolo_39, Parmesanjohn_49, Pavo_38, Peas_64, PegLeg_70, PeggyLeg03_63, Percival_46, Phabba_210, PhancyPhin_54, Phayonce_51, Phettuccine_36, Phisb_38, Phives_38, Phloss_47, Phrann_51, Phrux_83, Pipsqueaks_49, Pirate_32, Pixelle_35, Powerpuff_37, Procrass1_32, Provolone_38, Psycho_65, Pucara_59, Puginator_39, Pumpkins_36, Puppies_60, Purgamenstris_54, QMacho_39, QueenBey_32, Quenya_36, R4_37, REQ3_19, Rana_37, Raymond7_48, RedBear_37, Redi_54, Reedo_35, Reindeer_73, Rey_78, Reyja_59, Rileysaurus_31, Rimmer_86, Rollins_34, Rona_35, RootBeer_52, Rubeelu_52, Rusticus_37, SKKY_32, Saftant_37, Samy_60, SanaSana_40, SansAfet_38, SarBear_37, SarahRose_36, Sashimi_87, Schmidt_51, Schnauzer_50, ScoobyDoobyDoo_198, ShakeltOph_42, ShamWow_86, Shambre1_63, Sharkboy_36, Shayna_37, ShrimpFriedEgg_54, Silvafighter_50, Simpson_37, Skinny_74, Skylord_34, Slay_38, SlimJimmy_71, Smurph_49, Snek_35, Snekmaggon_48, Snorlax_36, Solid_32, Soondubu_33, Sooty_37, South40_36, SpecialK_42, SpeedDemon_740, Speedwell_42, SpongeBob_48, SqueakyClean_36, StellaBean_84, Stoor_38, Stormborn_32, Stromboli_38, SuMoo_46, Sue2_36, Sujidade_37, SunnyD_39, SunsetPointe_36, Supernova_32, Superstar_40, Swervy_38, TagePhighter_38, Tallboi_36, Tapioca_51, Tarzan_57, Tbone_34, Teagster_40, Teaspoon_87, Tefunt_38, TforTroy_37, Thestral_38, Tian_35, TinaBelcher_37, TinaLin_56, TinyDot_60, Toma_36, Toto_84, Trine_64, TripleJ_65, Triste_36, Triumph_38, TrvxScott_36, TuanPN_35, Tuck_39, TukTuk_38, Turab_34, Tutumahutu_35, Tweety19_35, TyDawg_71, Unstoppable_36, Upyo_68, Urza_38, UtzChips_43, VResidence_36, Vanseggelen_42, Verabelle_40, Verse_37, VieEnRose_37, Vitas_34, VroomVroom_40, WalkingDead_39, Warda_35, Werner_36, Whatever_36, Widow_60, Wildcat_85, Wildwest_35, Wizzo_32, Xerxes_49, Yang_36, Yasdnil_36, YassJohnny_83, YesChef_35, Yosif_39, Zainub_39, Zemlya_38, phiCAM_36, phiSASD1_10,

Summary by start number:

Start 63:

- Found in 8 of 598 (1.3%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Gambol_37 (AZ5),

Start 75:

- Found in 58 of 598 (9.7%) of genes in pham
- Manual Annotations of this start: 1 of 527
- Called 1.7% of time when present
- Phage (with cluster) where this start called: Diane_36 (BD2),

Start 77:

- Found in 3 of 598 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present

- Phage (with cluster) where this start called: Verabelle_40 (BD3),

Start 92:

- Found in 9 of 598 (1.5%) of genes in pham
- Manual Annotations of this start: 4 of 527
- Called 55.6% of time when present
- Phage (with cluster) where this start called: AbbeyMikolon_40 (BL), Attoomi_32 (singleton), Dubu_33 (BJ), Nesbitt_39 (BL), phiSASD1_10 (BJ),

Start 96:

- Found in 1 of 598 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 527
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumao_67 (singleton),

Start 97:

- Found in 13 of 598 (2.2%) of genes in pham
- Manual Annotations of this start: 6 of 527
- Called 46.2% of time when present
- Phage (with cluster) where this start called: Diminimus_72 (M1), Dulcita_72 (M1), Glaske16_73 (M1), Skinny_74 (M1), SlimJimmy_71 (M1), TyDawg_71 (M1),

Start 98:

- Found in 2 of 598 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 527
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hibiscus_57 (DY), Jojo24_56 (DY),

Start 100:

- Found in 15 of 598 (2.5%) of genes in pham
- Manual Annotations of this start: 3 of 527
- Called 26.7% of time when present
- Phage (with cluster) where this start called: BilboSwaggins_85 (E), Easy2Say_87 (E), Mindy_85 (E), Toto_84 (E),

Start 101:

- Found in 11 of 598 (1.8%) of genes in pham
- Manual Annotations of this start: 2 of 527
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Hank144_38 (BD2), Pablito_36 (BD2),

Start 102:

- Found in 1 of 598 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 527
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Karkharias_62 (FA),

Start 103:

- Found in 62 of 598 (10.4%) of genes in pham
- Manual Annotations of this start: 20 of 527
- Called 40.3% of time when present
- Phage (with cluster) where this start called: Anatole_44 (BV), B22_52 (BW), B3_46 (BV), Bridgette_65 (FA), ChuckDuck_63 (FA), Constance_63 (FA), DonkeyMan_55

(DY), Doucette_50 (BW), E1_44 (BV), E6_48 (BW), Eileen_59 (FA), GlobiWarming_67 (FA), Heinz_56 (DY), Judy_67 (FA), KayMoney_62 (FA), Kukla_66 (FJ), Peas_64 (FA), PeggyLeg03_63 (FA), Pucara_59 (FA), Reyja_59 (DY), RootBeer_52 (FA), Sashimi_87 (AY), Tarzan_57 (DY), TripleJ_65 (FJ), TrvxScott_36 (BD2),

Start 105:

- Found in 46 of 598 (7.7%) of genes in pham
- Manual Annotations of this start: 14 of 527
- Called 37.0% of time when present
- Phage (with cluster) where this start called: ATCC29399BC_32 (BU), Auspice_71 (M1), Bongo_71 (M1), Bricole_70 (M1), IPhane7_71 (M1), LilBandit_32 (BU), LilhomieP_71 (M1), Ouroboros_32 (BU), P104B_32 (BU), P106A_32 (BU), P108C_32 (BU), PHL010M04_32 (BU), PHL037M02_32 (BU), PHL071N05_32 (BU), PegLeg_70 (M1), Reindeer_73 (M1), Solid_32 (BU),

Start 106:

- Found in 21 of 598 (3.5%) of genes in pham
- Manual Annotations of this start: 20 of 527
- Called 95.2% of time when present
- Phage (with cluster) where this start called: Agent47_65 (K5), AlleyCat_67 (K5), Aziz_78 (M2), Collard_63 (K5), DS6A_86 (singleton), Dadosky_67 (K5), Dori_67 (AD), Estes_80 (M2), GardenSalsa_80 (M2), GenevaB15_79 (M2), InvictusManeo_63 (K5), Kratio_63 (K5), Larva_66 (K5), Mao1_69 (AD), Mask_67 (AD), MrMagoo_81 (M2), Nanosmite_76 (M3), Phayonce_51 (P5), Psycho_65 (K5), Rey_78 (M2),

Start 107:

- Found in 90 of 598 (15.1%) of genes in pham
- Manual Annotations of this start: 67 of 527
- Called 86.7% of time when present
- Phage (with cluster) where this start called: ATCC29399BT_32 (BU), Andies_47 (N), Aquarius_32 (BU), Attacne_32 (BU), BabeRuth_55 (N), Bosection6_50 (N), BruceLethal_32 (BU), Butters_52 (N), Carcharodon_49 (N), Charlie_50 (N), Chewbacca_51 (N), Cota_32 (BU), DrParker_32 (BU), Duplicity_49 (N), Enoki_32 (BU), Fulbright_48 (N), Gex_49 (N), Hanako_54 (N), Jamie19_48 (N), Keiki_32 (BU), Kevin1_51 (N), Kubed_32 (BU), Lauchelly_32 (BU), Leviosa_32 (BU), MEAK_32 (BU), Magsby_49 (N), Melville_52 (N), Moyashi_32 (BU), MrAK_32 (BU), Nenae_54 (N), P100.1_32 (BU), P100A_32 (BU), P100D_32 (BU), P101A_32 (BU), P104A_32 (BU), P105_32 (BU), P106C_33 (BU), P106I_32 (BU), P106L_32 (BU), P106M_32 (BU), P107A_32 (BU), P107C_32 (BU), P14.4_32 (BU), PA6_33 (BU), PAD20_33 (BU), PAS50_33 (BU), PHL060L00_32 (BU), PHL067M10_32 (BU), PHL111M01_32 (BU), PHL112N00_32 (BU), PHL113M01_32 (BU), PHL114L00_32 (BU), Panchino_47 (N), Parmesanjohn_49 (N), PhancyPhin_54 (N), Phloss_47 (N), Phrann_51 (N), Pipsqueaks_49 (N), Pirate_32 (BU), Procrass1_32 (BU), Purgamenstris_54 (N), QueenBey_32 (BU), Raymond7_48 (N), Redi_54 (N), Rileysaurus_31 (BU), Rubeelu_52 (N), SKKY_32 (BU), Schnauzer_50 (N), ShrimpFriedEgg_54 (N), Silvafighter_50 (N), Smurph_49 (N), Snekmaggedon_48 (N), SpongeBob_48 (N), Stormborn_32 (BU), Supernova_32 (BU), Tapioca_51 (N), Wizzo_32 (BU), Xerxes_49 (N),

Start 108:

- Found in 5 of 598 (0.8%) of genes in pham

- Manual Annotations of this start: 5 of 527
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100_84 (V), Cosmo_85 (V), EniyanLRS_81 (V), MaryV_85 (V), Wildcat_85 (V),

Start 109:

- Found in 37 of 598 (6.2%) of genes in pham
- Manual Annotations of this start: 32 of 527
- Called 89.2% of time when present
- Phage (with cluster) where this start called: Alvy_39 (BD2), Amethyst_36 (BD2), Andris_36 (BD2), Animus_36 (BD2), BartholomewSD_39 (BD2), Bowden_37 (BD2), Caelum_38 (BD2), Celia_38 (BD6), Daudau_37 (BD2), ELB20_35 (BD2), GirlDinner_36 (BD2), Haizum_38 (BD2), Issmi_38 (BD2), Itza_38 (BD6), Janus_37 (BD2), Jevington_39 (BD2), Loofah_37 (BD2), Marav_40 (BD2), Nishikigoi_38 (BD2), Omar_39 (BD2), Paedore_36 (BD2), Paolo_39 (BD2), Puginator_39 (BD2), R4_37 (BD2), SqueakyClean_36 (BD2), Superstar_40 (BD2), Tefunt_38 (BD2), Thestral_38 (BD2), TinaBelcher_37 (BD2), Triumph_38 (BD2), Urza_38 (BD6), VieEnRose_37 (BD6), Zainub_39 (BD2),

Start 110:

- Found in 15 of 598 (2.5%) of genes in pham
- Manual Annotations of this start: 11 of 527
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Alsaber_38 (BD3), Amela_37 (BD3), Celery_40 (BD3), Conan_38 (BD3), Dexers_36 (BD3), ElGato_38 (BD3), Kaine_37 (BD3), Pavo_38 (BD3), Provolone_38 (BD3), Saftant_37 (BD3), Speedwell_42 (BD3), Vanseggelen_42 (BD3), Verse_37 (BD3), phiCAM_36 (BD3),

Start 111:

- Found in 57 of 598 (9.5%) of genes in pham
- Manual Annotations of this start: 56 of 527
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aaronocolus_36 (BD1), Asten_36 (BD1), BarryBee_39 (BD1), BeardedLady_37 (BD1), Bovely_36 (BD1), Brataylor_39 (BD1), BryanRecycles_37 (BD1), Caliburn_36 (BD1), Celeste_37 (BD1), Chucky_36 (BD1), Danzina_38 (BD1), Dattran_38 (BD1), Dwayne_36 (BD1), Eddasa_37 (BD1), Ejemplo_35 (BD1), Emaanora_39 (BD1), EnochSoames_39 (BD1), Esperer_36 (BD1), Goby_36 (BD1), Godpower_37 (BD1), Hippo_36 (BD1), Hydra_38 (BD1), Indigo_35 (BD1), Izzy_37 (BD1), Jash_37 (BD1), Katalie_36 (BD1), Lannister_38 (BD1), Legacy_36 (BD1), Leviticus_36 (BD1), Lika_36 (BD1), Lorelei_37 (BD1), Maneekul_36 (BD1), Nabi_37 (BD1), Nanodon_38 (BD1), Nerdos_35 (BD1), Oliynyk_37 (BD1), Ozzie_36 (BD1), OzzyJ_37 (BD1), Phettuccine_36 (BD1), Rana_37 (BD1), RedBear_37 (BD1), Rusticus_37 (BD1), SarahRose_36 (BD1), Snorlax_36 (BD1), South40_36 (BD1), Sujidade_37 (BD1), SunsetPointe_36 (BD1), TAgePhighter_38 (BD1), Toma_36 (BD1), Triste_36 (BD1), TuanPN_35 (BD1), Unstoppable_36 (BD1), Werner_36 (BD1), Whatever_36 (BD1), Yasdnil_36 (BD1), Yosif_39 (BD3), Zemlya_38 (BD1),

Start 112:

- Found in 2 of 598 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 527
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amao_85 (E), Rimmer_86 (E),

Start 113:

- Found in 118 of 598 (19.7%) of genes in pham
- Manual Annotations of this start: 112 of 527
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ABCat_83 (E), Adnama_90 (E), AmericanBeauty_90 (E), Argent26_90 (E), Asriel_85 (E), BadStone_83 (E), Balomoji_86 (E), Barbarian_85 (E), Bask21_86 (E), Bench_89 (E), BigBubba_86 (E), BroPlease_37 (BD4), Bruin_83 (E), Buck_87 (E), BugsBunny_86 (E), Cactus_89 (E), ChosenOne_86 (E), ChotaBhai_86 (E), Cjw1_86 (E), Command613_88 (E), Contagion_82 (E), Cookies_83 (E), Czyszczo1_87 (E), Daikon_88 (E), DoctorDiddles_85 (E), DrDrey_86 (E), Dumbo_86 (E), Dusk_83 (E), Elite2014_85 (E), Elph10_86 (E), Emmina_86 (E), Eureka_85 (E), FairyPath_86 (E), Filch_87 (E), FireRed_90 (E), Flypotenuse_82 (E), Gage_88 (E), Gator_84 (E), Gemini_91 (E), Glexan_85 (E), Goku_85 (E), GoldenSpark_90 (E), Goldilocks_89 (E), GooberAzure_89 (E), GreenWeasel_38 (BD4), HanKaySha_86 (E), Harella_86 (E), Highbury_85 (E), Holt_91 (E), Hoonter_89 (E), Hopey_86 (E), HuffyPuff_89 (E), IHOP_84 (E), Icee_87 (E), JeTaimie_86 (E), Kanye_83 (E), Kimchi_90 (E), Kostya_86 (E), Kozi_44 (E), Lilac_88 (E), Lilizi_87 (E), Lilpickle_85 (E), MISSy_87 (E), MPhalcon_87 (E), MadamMonkfish_86 (E), Marshmallow_84 (E), Maxxinista_88 (E), Miniwave_81 (E), Misfit_87 (E), Moldemort_89 (E), Mosby_82 (E), Murica_89 (E), Murphy_86 (E), Myrale_86 (E), Nala_88 (E), NelitzaMV_84 (E), Nimrod_87 (E), NoSleep_87 (E), OrionPax_85 (E), Palpatine_88 (E), Paperbeatsrock_85 (E), Pat3_84 (E), Petra64142_90 (E), Phaja_84 (E), Pharsalus_83 (E), PhatBacter_90 (E), Phaux_88 (E), Policronamos_90 (E), Porky_85 (E), Pumpkin_89 (E), Quallification_87 (E), Rakim_87 (E), RiverMonster_86 (E), Saints25_85 (E), Sassay_81 (E), ShereKhan_84 (E), Simpliphy_85 (E), SirDuracell_86 (E), SophKB_83 (E), Sotrice96_87 (E), Stank_89 (E), Stark_87 (E), StolenFromERC_89 (E), TBrady12_89 (E), Tarkin_85 (E), TeardropMSU_82 (E), Terminus_89 (E), Thresher_88 (E), Tomaszewski_81 (E), Traaww1_82 (E), Tuco_87 (E), Ukulele_81 (E), Wiggin_88 (E), Willez_81 (E), Xandras_85 (E), Youngblood_89 (E), phiHau3_38 (BD4), xkcd_89 (E),

Start 114:

- Found in 1 of 598 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 527
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shambre1_63 (singleton),

Start 115:

- Found in 1 of 598 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 527
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Samy_60 (singleton),

Start 118:

- Found in 28 of 598 (4.7%) of genes in pham
- Manual Annotations of this start: 15 of 527
- Called 57.1% of time when present
- Phage (with cluster) where this start called: 244_87 (E), BaboJay_84 (E), CrystalP_85 (E), Edugator_64 (K5), Greely_206 (C2), Henry_84 (E), Inca_83 (E), Manda_88 (E), Myrna_199 (C2), Phabba_210 (C2), Phrux_83 (E), ScoobyDoobyDoo_198 (C2), ShamWow_86 (E), StellaBean_84 (E), Teaspoon_87

(E), YassJohnny_83 (E),

Start 120:

- Found in 11 of 598 (1.8%) of genes in pham
- Manual Annotations of this start: 9 of 527
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Asapag_85 (DN1), Bantam_72 (DL), BearBQ_90 (DN), Birdsong_84 (DN), CheeseTouch_97 (DN1), DatBoi_70 (DL), GMA4_60 (singleton), LitninMcQueen_97 (DN1), Mollymur_72 (DL), REQ3_19 (singleton), SpeedDemon_740 (DL),

Start 121:

- Found in 97 of 598 (16.2%) of genes in pham
- Manual Annotations of this start: 73 of 527
- Called 97.9% of time when present
- Phage (with cluster) where this start called: AEgle_34 (AZ1), AGrandiflora_36 (AZ1), Adolin_35 (AZ1), Adumb2043_34 (AZ1), AinMach_39 (AZ), Amyev_35 (AZ1), Asa16_35 (AZ1), Ascela_37 (AZ1), Ashes_41 (AZ5), BFK20_ORF52 (singleton), BaileyBlu_37 (FP), Barnstormer_43 (EH), Berrie_37 (AZ1), CallinAllBarbz_37 (FP), Cappuccino_37 (AZ5), Caron_47 (EH), Cassia_36 (AZ1), Cen1621_40 (EH), Community_38 (AZ1), Crewmate_41 (AZ1), Cyan_35 (AZ1), Donkey_37 (AZ5), DrManhattan_35 (AZ1), DrSierra_34 (AZ1), Elezi_35 (AZ1), EmiRose_43 (singleton), Emotion_40 (AZ4), Eraser_35 (AZ1), Exile_33 (AZ), Floof_46 (EH), GardenState_44 (EH), Gretchen_45 (EH), Gustav_66 (CD), Halsey_45 (AZ5), Honk_41 (EH), IAmGroot_44 (EH), Iter_37 (AZ1), IttyBittyPiggy_36 (AZ1), Janeemi_38 (AZ1), JasmineDragon_40 (AZ4), Joemato_35 (AZ1), JohnDoe_35 (AZ1), Jstan_37 (AZ1), JuneStar_37 (AZ1), Kalimba_37 (AZ5), Kaylissa_35 (AZ1), KeAlii_36 (AZ1), Lego_35 (AZ1), Liebe_37 (AZ2), Lizalica_34 (AZ1), London_35 (AZ1), Mabodamaca_44 (EH), Mahdia_59 (CD), Maureen_37 (AZ2), MiniMommy_42 (AZ4), MissSwiss_35 (AZ1), Morrissey_62 (CD), Moss_42 (AZ5), Mudpuppy_34 (AZ1), Mysterium_36 (AZ5), Niobe_35 (AZ1), Nitro_36 (AZ1), ObiToo_40 (AZ1), Percival_46 (EH), Phives_38 (AZ1), Pixelle_35 (AZ1), Powerpuff_37 (AZ1), Pumpkins_36 (AZ1), Puppies_60 (CD), Reedo_35 (AZ1), ShakeltOph_42 (AZ4), Simpson_37 (AZ1), Snek_35 (AZ3), Soondubu_33 (AZ), Sooty_37 (AZ5), SpecialK_42 (AZ5), SuMoo_46 (EH), Sue2_36 (AZ1), Tallboi_36 (AZ1), Tbone_34 (AZ1), TforTroy_37 (AZ1), Tian_35 (AZ1), Tuck_39 (AZ1), Turab_34 (AZ1), Tutumahutu_35 (AZ1), Tweety19_35 (AZ3), Upyo_68 (CD), UtzChips_43 (EH), VResidence_36 (AZ1), VroomVroom_40 (AZ4), Warda_35 (AZ1), Widow_60 (CD), Wildwest_35 (AZ1), Yang_36 (AZ1), YesChef_35 (AZ1),

Start 122:

- Found in 7 of 598 (1.2%) of genes in pham
- Manual Annotations of this start: 6 of 527
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Banquo_56 (CU1), Dardanus_52 (CU3), Daredevil_63 (DL), Schmidt_51 (CU4), TinyDot_60 (singleton), Trine_64 (CD),

Start 123:

- Found in 2 of 598 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 527
- Called 50.0% of time when present
- Phage (with cluster) where this start called: TinaLin_56 (CU1),

Start 124:

- Found in 4 of 598 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 75.0% of time when present
- Phage (with cluster) where this start called: CliffHanger_40 (EB), Shayna_37 (EB), Teagster_40 (EB),

Start 125:

- Found in 11 of 598 (1.8%) of genes in pham
- No Manual Annotations of this start.
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Gspu1_48 (CU2),

Start 126:

- Found in 65 of 598 (10.9%) of genes in pham
- Manual Annotations of this start: 61 of 527
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail_36 (EB), Albedo_37 (EB), Albright_35 (EB), AnnaLie_38 (EB), Armstrong_34 (EB), Arroyo_38 (EB), AvGardian_39 (EB), Avocadoman_36 (EB), BAjuniper_36 (EB), BabyDaisy_36 (EB), BabyYoda_38 (EB), Bachaco_35 (EB), BelmontSKP_38 (EB), Bernstein_34 (EB), Brahms_34 (EB), BubbaBear_36 (EB), Burritobowl_37 (EB), Cashington_35 (EB), Celaena_35 (EB), ChiliPepper_34 (EB), Clayda5_35 (EB), Coltrane_34 (EB), CroZenni_37 (EB), DickRichards_36 (EB), Didgeridoo_39 (EB), DirtyBubble_37 (EB), Dismas_35 (EB), Doobus_36 (EB), Eden_35 (EB), Elva_39 (EB), Eula_38 (EB), Finalfrontier_37 (EB), FlameThrower_35 (EB), Franklin22_36 (EB), Gack_34 (EB), Icarian_40 (EB), IndyLu_36 (EB), Johnathan_36 (EB), Jovita_38 (EB), Kate33_36 (EB), Katzastrophic_36 (EB), Kenzers_37 (EB), Kieran_35 (EB), Lahqtemish_36 (EB), LimaBean_36 (EB), Loviatar_67 (EB), Lynlen_37 (EB), Nicky22_38 (EB), Phisb_38 (EB), QMacho_39 (EB), Quenya_36 (EB), Rollins_34 (EB), Rona_35 (EB), SanaSana_40 (EB), SansAfet_38 (EB), SarBear_37 (EB), Sharkboy_36 (EB), Skylord_34 (EB), Slay_38 (EB), Stoor_38 (EB), Stromboli_38 (EB), Swervy_38 (EB), TukTuk_38 (EB), Vitas_34 (EB), WalkingDead_39 (EB),

Start 130:

- Found in 1 of 598 (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: Kithara_61 (singleton),

Start 133:

- Found in 40 of 598 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 527
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Enochoraptor_32 (BU), P9.1_32 (BU),

Start 140:

- Found in 4 of 598 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: SunnyD_39 (EB),

Start 144:

- Found in 8 of 598 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 527
- Called 12.5% of time when present
- Phage (with cluster) where this start called: MaGuCo_35 (AZ2),

Summary by clusters:

There are 43 clusters represented in this pham: DN, DN1, singleton, M3, BL, DY, DL, BJ, FA, BV, BW, M1, K5, M2, EI, FJ, AD, CU4, CU3, CU2, CU1, BD4, BD6, BD1, BD3, BD2, C2, E, EH, P5, FP, CD, V, AY, EB, BU, AZ, N, AZ1, AZ2, AZ3, AZ4, AZ5,

Info for manual annotations of cluster AD:

- Start number 106 was manually annotated 3 times for cluster AD.

Info for manual annotations of cluster AZ:

- Start number 121 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:

- Start number 121 was manually annotated 44 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 121 was manually annotated 2 times for cluster AZ2.
- Start number 144 was manually annotated 1 time for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 121 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 121 was manually annotated 3 times for cluster AZ4.

Info for manual annotations of cluster BD1:

- Start number 111 was manually annotated 55 times for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 75 was manually annotated 1 time for cluster BD2.
- Start number 101 was manually annotated 2 times for cluster BD2.
- Start number 103 was manually annotated 1 time for cluster BD2.
- Start number 109 was manually annotated 28 times for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 110 was manually annotated 11 times for cluster BD3.
- Start number 111 was manually annotated 1 time for cluster BD3.

Info for manual annotations of cluster BD4:

- Start number 113 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:

- Start number 109 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BJ:

- Start number 92 was manually annotated 1 time for cluster BJ.

Info for manual annotations of cluster BL:

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

Info for manual annotations of cluster BU:

- Start number 105 was manually annotated 7 times for cluster BU.
- Start number 107 was manually annotated 34 times for cluster BU.
- Start number 133 was manually annotated 1 time for cluster BU.

Info for manual annotations of cluster BV:

- Start number 103 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster BW:

- Start number 103 was manually annotated 3 times for cluster BW.

Info for manual annotations of cluster C2:

- Start number 118 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster CD:

- Start number 121 was manually annotated 6 times for cluster CD.
- Start number 122 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CU1:

- Start number 122 was manually annotated 1 time for cluster CU1.
- Start number 123 was manually annotated 1 time for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 122 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 122 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster DL:

- Start number 120 was manually annotated 4 times for cluster DL.
- Start number 122 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DN:

- Start number 120 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 120 was manually annotated 3 times for cluster DN1.

Info for manual annotations of cluster DY:

- Start number 98 was manually annotated 2 times for cluster DY.
- Start number 103 was manually annotated 2 times for cluster DY.

Info for manual annotations of cluster E:

- Start number 100 was manually annotated 3 times for cluster E.
- Start number 112 was manually annotated 1 time for cluster E.
- Start number 113 was manually annotated 108 times for cluster E.
- Start number 118 was manually annotated 11 times for cluster E.

Info for manual annotations of cluster EB:

- Start number 126 was manually annotated 61 times for cluster EB.

Info for manual annotations of cluster EH:

- Start number 121 was manually annotated 12 times for cluster EH.

Info for manual annotations of cluster EI:

- Start number 113 was manually annotated 1 time for cluster EI.

Info for manual annotations of cluster FA:

- Start number 102 was manually annotated 1 time for cluster FA.
- Start number 103 was manually annotated 9 times for cluster FA.

Info for manual annotations of cluster FJ:

- Start number 103 was manually annotated 2 times for cluster FJ.

Info for manual annotations of cluster FP:

- Start number 121 was manually annotated 2 times for cluster FP.

Info for manual annotations of cluster K5:

- Start number 106 was manually annotated 8 times for cluster K5.
- Start number 118 was manually annotated 1 time for cluster K5.

Info for manual annotations of cluster M1:

- Start number 97 was manually annotated 6 times for cluster M1.
- Start number 105 was manually annotated 7 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 106 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 106 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster N:

- Start number 107 was manually annotated 33 times for cluster N.

Info for manual annotations of cluster P5:

- Start number 106 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster V:

- Start number 108 was manually annotated 5 times for cluster V.

Gene Information:

Gene: 244_87 Start: 52340, Stop: 52702, Start Num: 118

Candidate Starts for 244_87:

(Start: 100 @52319 has 3 MA's), (Start: 118 @52340 has 15 MA's), (181, 52553), (204, 52637), (210, 52649), (213, 52655), (226, 52691),

Gene: ABCat_83 Start: 52732, Stop: 53094, Start Num: 113

Candidate Starts for ABCat_83:

(93, 52705), (Start: 113 @52732 has 112 MA's), (181, 52945), (204, 53029), (210, 53041), (213, 53047), (226, 53083),

Gene: AEgle_34 Start: 25272, Stop: 25622, Start Num: 121

Candidate Starts for AEgle_34:

(39, 25092), (52, 25146), (Start: 121 @25272 has 73 MA's), (Start: 133 @25317 has 1 MA's), (147, 25356), (195, 25518), (208, 25560),

Gene: AGrandiflora_36 Start: 25133, Stop: 25576, Start Num: 121

Candidate Starts for AGrandiflora_36:

(Start: 121 @25133 has 73 MA's), (192, 25385), (208, 25436),

Gene: ATCC29399BC_32 Start: 21881, Stop: 21522, Start Num: 105

Candidate Starts for ATCC29399BC_32:

(Start: 105 @21881 has 14 MA's), (Start: 107 @21878 has 67 MA's), (175, 21677), (194, 21599), (195, 21596), (210, 21560),

Gene: ATCC29399BT_32 Start: 21878, Stop: 21522, Start Num: 107

Candidate Starts for ATCC29399BT_32:

(Start: 105 @21881 has 14 MA's), (Start: 107 @21878 has 67 MA's), (175, 21677), (194, 21599), (195, 21596), (210, 21560),

Gene: Aaronocolus_36 Start: 27054, Stop: 27416, Start Num: 111

Candidate Starts for Aaronocolus_36:

(37, 26874), (Start: 75 @26991 has 1 MA's), (78, 27000), (Start: 111 @27054 has 56 MA's), (162, 27210), (177, 27261), (190, 27315), (192, 27324), (210, 27369),

Gene: AbbeyMikolon_40 Start: 26256, Stop: 26795, Start Num: 92

Candidate Starts for AbbeyMikolon_40:

(Start: 92 @26256 has 4 MA's), (143, 26391), (152, 26439), (173, 26499), (179, 26511), (192, 26559), (193, 26562), (199, 26589), (202, 26610), (214, 26634), (227, 26667), (230, 26676), (250, 26775),

Gene: Abigail_36 Start: 25222, Stop: 25548, Start Num: 126

Candidate Starts for Abigail_36:

(Start: 126 @25222 has 61 MA's), (195, 25453), (205, 25489), (208, 25495),

Gene: Adnama_90 Start: 52618, Stop: 52980, Start Num: 113

Candidate Starts for Adnama_90:

(90, 52585), (Start: 113 @52618 has 112 MA's), (181, 52831), (183, 52846), (204, 52915), (210, 52927), (213, 52933), (226, 52969),

Gene: Adolin_35 Start: 24126, Stop: 24476, Start Num: 121

Candidate Starts for Adolin_35:

(43, 23973), (52, 24003), (72, 24045), (Start: 121 @24126 has 73 MA's), (147, 24210), (208, 24414), (211, 24420),

Gene: Adumb2043_34 Start: 25291, Stop: 25641, Start Num: 121

Candidate Starts for Adumb2043_34:

(Start: 121 @25291 has 73 MA's), (Start: 133 @25336 has 1 MA's), (147, 25375), (195, 25537), (208, 25579),

Gene: Agent47_65 Start: 45856, Stop: 46221, Start Num: 106

Candidate Starts for Agent47_65:

(74, 45793), (Start: 106 @45856 has 20 MA's), (Start: 118 @45868 has 15 MA's), (146, 45958), (155, 45997), (162, 46021), (172, 46048), (193, 46117), (194, 46120), (210, 46162), (213, 46168), (215, 46174), (220, 46186), (228, 46204),

Gene: AinMach_39 Start: 26488, Stop: 26916, Start Num: 121

Candidate Starts for AinMach_39:

(87, 26443), (104, 26470), (Start: 121 @26488 has 73 MA's), (135, 26545), (181, 26695), (192, 26743), (195, 26752), (208, 26794), (218, 26818), (220, 26821),

Gene: Albedo_37 Start: 25772, Stop: 26098, Start Num: 126

Candidate Starts for Albedo_37:

(Start: 126 @25772 has 61 MA's), (162, 25895), (200, 26024), (205, 26039),

Gene: Albright_35 Start: 24924, Stop: 25250, Start Num: 126

Candidate Starts for Albright_35:

(Start: 126 @24924 has 61 MA's), (195, 25155), (205, 25191), (208, 25197),

Gene: AlleyCat_67 Start: 46184, Stop: 46549, Start Num: 106

Candidate Starts for AlleyCat_67:

(84, 46148), (Start: 106 @46184 has 20 MA's), (Start: 118 @46196 has 15 MA's), (146, 46286), (155, 46325), (162, 46349), (172, 46376), (192, 46442), (193, 46445), (194, 46448), (210, 46490), (213, 46496), (215, 46502), (220, 46514), (228, 46532), (229, 46538),

Gene: Alsaber_38 Start: 28924, Stop: 29289, Start Num: 110

Candidate Starts for Alsaber_38:

(Start: 110 @28924 has 11 MA's), (168, 29107), (177, 29134), (193, 29200),

Gene: Alvy_39 Start: 28390, Stop: 28767, Start Num: 109

Candidate Starts for Alvy_39:

(Start: 103 @28381 has 20 MA's), (Start: 109 @28390 has 32 MA's), (161, 28561), (162, 28564), (174, 28600), (210, 28723),

Gene: Amao_85 Start: 51813, Stop: 52175, Start Num: 112

Candidate Starts for Amao_85:

(Start: 112 @51813 has 1 MA's), (181, 52026), (183, 52041), (204, 52110), (210, 52122), (213, 52128), (215, 52134), (226, 52164),

Gene: Amela_37 Start: 29758, Stop: 30123, Start Num: 110

Candidate Starts for Amela_37:

(Start: 110 @29758 has 11 MA's), (168, 29941), (177, 29968), (193, 30034), (210, 30076),

Gene: AmericanBeauty_90 Start: 52901, Stop: 53263, Start Num: 113

Candidate Starts for AmericanBeauty_90:

(93, 52874), (Start: 113 @52901 has 112 MA's), (181, 53114), (204, 53198), (210, 53210), (213, 53216), (226, 53252),

Gene: Amethyst_36 Start: 27761, Stop: 28138, Start Num: 109

Candidate Starts for Amethyst_36:

(94, 27743), (Start: 103 @27752 has 20 MA's), (Start: 109 @27761 has 32 MA's), (162, 27935), (194, 28055), (210, 28094),

Gene: Amyev_35 Start: 26817, Stop: 27164, Start Num: 121

Candidate Starts for Amyev_35:

(Start: 121 @26817 has 73 MA's), (147, 26901), (195, 27063), (208, 27105),

Gene: Anatole_44 Start: 29853, Stop: 30233, Start Num: 103

Candidate Starts for Anatole_44:

(80, 29811), (85, 29823), (89, 29832), (Start: 103 @29853 has 20 MA's), (132, 29907), (157, 30003), (193, 30117), (213, 30168),

Gene: Andies_47 Start: 34063, Stop: 34455, Start Num: 107

Candidate Starts for Andies_47:

(46, 33940), (55, 33961), (70, 33988), (Start: 107 @34063 has 67 MA's), (213, 34384),

Gene: Andris_36 Start: 27819, Stop: 28196, Start Num: 109

Candidate Starts for Andris_36:

(Start: 101 @27807 has 2 MA's), (Start: 103 @27810 has 20 MA's), (Start: 109 @27819 has 32 MA's), (162, 27993), (193, 28110), (210, 28152),

Gene: Animus_36 Start: 28249, Stop: 28626, Start Num: 109

Candidate Starts for Animus_36:

(Start: 101 @28237 has 2 MA's), (Start: 103 @28240 has 20 MA's), (Start: 109 @28249 has 32 MA's), (162, 28423), (174, 28459), (193, 28540), (210, 28582),

Gene: AnnaLie_38 Start: 26045, Stop: 26371, Start Num: 126

Candidate Starts for AnnaLie_38:

(Start: 126 @26045 has 61 MA's), (195, 26276), (205, 26312), (208, 26318),

Gene: Aquarius_32 Start: 21351, Stop: 20995, Start Num: 107

Candidate Starts for Aquarius_32:

(87, 21384), (Start: 107 @21351 has 67 MA's), (175, 21150), (195, 21069), (210, 21033),

Gene: Argent26_90 Start: 52539, Stop: 52901, Start Num: 113

Candidate Starts for Argent26_90:

(93, 52512), (Start: 113 @52539 has 112 MA's), (181, 52752), (204, 52836), (210, 52848), (213, 52854), (226, 52890),

Gene: Armstrong_34 Start: 23647, Stop: 23988, Start Num: 126

Candidate Starts for Armstrong_34:

(Start: 126 @23647 has 61 MA's), (152, 23740), (208, 23920),

Gene: Arroyo_38 Start: 26083, Stop: 26409, Start Num: 126

Candidate Starts for Arroyo_38:

(Start: 126 @26083 has 61 MA's), (195, 26314), (205, 26350), (208, 26356),

Gene: Asa16_35 Start: 26861, Stop: 27211, Start Num: 121

Candidate Starts for Asa16_35:

(Start: 121 @26861 has 73 MA's), (Start: 133 @26906 has 1 MA's), (147, 26945), (162, 26999), (192, 27098), (208, 27149),

Gene: Asapag_85 Start: 49353, Stop: 49730, Start Num: 120

Candidate Starts for Asapag_85:

(32, 49113), (Start: 120 @49353 has 9 MA's), (125, 49365), (154, 49482), (161, 49494), (166, 49515), (185, 49566), (192, 49590), (195, 49599), (212, 49644), (213, 49647), (219, 49662), (224, 49674), (236, 49707),

Gene: Ascela_37 Start: 25854, Stop: 26297, Start Num: 121
Candidate Starts for Ascela_37:
(50, 25725), (Start: 121 @25854 has 73 MA's), (Start: 133 @25899 has 1 MA's), (192, 26106), (195, 26115), (208, 26157), (211, 26163),

Gene: Ashes_41 Start: 24212, Stop: 24646, Start Num: 121
Candidate Starts for Ashes_41:
(63, 24116), (73, 24140), (Start: 121 @24212 has 73 MA's), (207, 24512),

Gene: Asriel_85 Start: 50955, Stop: 51317, Start Num: 113
Candidate Starts for Asriel_85:
(90, 50922), (Start: 113 @50955 has 112 MA's), (181, 51168), (183, 51183), (204, 51252), (210, 51264), (213, 51270), (226, 51306),

Gene: Asten_36 Start: 27412, Stop: 27774, Start Num: 111
Candidate Starts for Asten_36:
(37, 27235), (Start: 75 @27349 has 1 MA's), (78, 27358), (99, 27397), (Start: 111 @27412 has 56 MA's), (177, 27619), (190, 27673), (192, 27682), (195, 27691), (210, 27727),

Gene: Attacne_32 Start: 21366, Stop: 21010, Start Num: 107
Candidate Starts for Attacne_32:
(87, 21399), (Start: 107 @21366 has 67 MA's), (162, 21207), (175, 21165), (195, 21084), (210, 21048),

Gene: Attoomi_32 Start: 23857, Stop: 24264, Start Num: 92
Candidate Starts for Attoomi_32:
(Start: 92 @23857 has 4 MA's), (129, 23938), (141, 23971), (145, 23995), (152, 24028), (192, 24148), (194, 24154), (195, 24157), (205, 24193), (207, 24196), (208, 24199),

Gene: Auspice_71 Start: 46676, Stop: 47095, Start Num: 105
Candidate Starts for Auspice_71:
(Start: 97 @46667 has 6 MA's), (Start: 105 @46676 has 14 MA's), (139, 46754), (161, 46841), (170, 46871), (186, 46913), (204, 46973), (234, 47048),

Gene: AvGardian_39 Start: 26215, Stop: 26541, Start Num: 126
Candidate Starts for AvGardian_39:
(6, 25681), (Start: 126 @26215 has 61 MA's), (162, 26338), (205, 26482), (208, 26488),

Gene: Avocadoman_36 Start: 25161, Stop: 25487, Start Num: 126
Candidate Starts for Avocadoman_36:
(Start: 126 @25161 has 61 MA's), (195, 25392), (205, 25428), (208, 25434),

Gene: Aziz_78 Start: 48719, Stop: 49120, Start Num: 106
Candidate Starts for Aziz_78:
(Start: 106 @48719 has 20 MA's), (135, 48785), (155, 48863), (186, 48956), (204, 49016), (226, 49070),

Gene: Azrael100_84 Start: 52399, Stop: 52803, Start Num: 108
Candidate Starts for Azrael100_84:
(69, 52318), (Start: 108 @52399 has 5 MA's), (142, 52486), (152, 52534), (159, 52558), (165, 52579), (167, 52585), (179, 52594), (212, 52696), (216, 52708), (234, 52756), (237, 52762), (242, 52780),

Gene: B22_52 Start: 33281, Stop: 33661, Start Num: 103

Candidate Starts for B22_52:

(85, 33251), (89, 33260), (Start: 103 @33281 has 20 MA's), (132, 33335), (157, 33431), (183, 33509), (193, 33545), (213, 33596),

Gene: B3_46 Start: 30516, Stop: 30896, Start Num: 103

Candidate Starts for B3_46:

(Start: 103 @30516 has 20 MA's), (132, 30570), (157, 30666), (193, 30780), (213, 30831),

Gene: BAjuniper_36 Start: 26884, Stop: 27216, Start Num: 126

Candidate Starts for BAjuniper_36:

(33, 26641), (Start: 126 @26884 has 61 MA's), (151, 26974), (162, 27010), (163, 27013), (191, 27103), (205, 27154), (208, 27160), (229, 27211),

Gene: BFK20_ORF52 Start: 41172, Stop: 41558, Start Num: 121

Candidate Starts for BFK20_ORF52:

(Start: 121 @41172 has 73 MA's), (141, 41238), (181, 41385), (182, 41391), (188, 41415), (189, 41421), (220, 41505),

Gene: BabeRuth_55 Start: 35784, Stop: 36176, Start Num: 107

Candidate Starts for BabeRuth_55:

(46, 35661), (55, 35682), (70, 35709), (Start: 107 @35784 has 67 MA's), (213, 36105),

Gene: BaboJay_84 Start: 52341, Stop: 52703, Start Num: 118

Candidate Starts for BaboJay_84:

(Start: 100 @52320 has 3 MA's), (Start: 118 @52341 has 15 MA's), (181, 52554), (204, 52638), (210, 52650), (213, 52656), (226, 52692),

Gene: BabyDaisy_36 Start: 25684, Stop: 26010, Start Num: 126

Candidate Starts for BabyDaisy_36:

(Start: 126 @25684 has 61 MA's), (157, 25792), (195, 25915), (205, 25951), (208, 25957),

Gene: BabyYoda_38 Start: 26829, Stop: 27155, Start Num: 126

Candidate Starts for BabyYoda_38:

(Start: 126 @26829 has 61 MA's), (161, 26949), (163, 26955), (179, 26997), (195, 27060), (200, 27081), (205, 27096), (208, 27102),

Gene: Bachaco_35 Start: 26844, Stop: 27173, Start Num: 126

Candidate Starts for Bachaco_35:

(Start: 126 @26844 has 61 MA's), (161, 26964), (162, 26967), (163, 26970), (205, 27111), (208, 27117),

Gene: BadStone_83 Start: 52301, Stop: 52663, Start Num: 113

Candidate Starts for BadStone_83:

(93, 52274), (Start: 113 @52301 has 112 MA's), (181, 52514), (204, 52598), (210, 52610), (213, 52616), (226, 52652),

Gene: BaileyBlu_37 Start: 25414, Stop: 25836, Start Num: 121

Candidate Starts for BaileyBlu_37:

(42, 25246), (59, 25300), (Start: 121 @25414 has 73 MA's), (Start: 133 @25459 has 1 MA's), (147, 25513), (192, 25666), (194, 25672),

Gene: Balomoji_86 Start: 52725, Stop: 53087, Start Num: 113

Candidate Starts for Balomoji_86:

(90, 52692), (Start: 113 @52725 has 112 MA's), (181, 52938), (183, 52953), (204, 53022), (210, 53034), (213, 53040), (226, 53076),

Gene: Banquo_56 Start: 37048, Stop: 37422, Start Num: 122

Candidate Starts for Banquo_56:

(Start: 122 @37048 has 6 MA's), (Start: 123 @37051 has 1 MA's), (125, 37060), (Start: 133 @37096 has 1 MA's), (154, 37177), (161, 37204), (194, 37306), (219, 37372),

Gene: Bantam_72 Start: 52490, Stop: 52125, Start Num: 120

Candidate Starts for Bantam_72:

(99, 52520), (Start: 120 @52490 has 9 MA's), (212, 52193), (238, 52145),

Gene: Barbarian_85 Start: 50955, Stop: 51317, Start Num: 113

Candidate Starts for Barbarian_85:

(90, 50922), (Start: 113 @50955 has 112 MA's), (181, 51168), (183, 51183), (204, 51252), (210, 51264), (213, 51270), (226, 51306),

Gene: Barnstormer_43 Start: 27456, Stop: 27818, Start Num: 121

Candidate Starts for Barnstormer_43:

(45, 27303), (76, 27375), (Start: 121 @27456 has 73 MA's), (185, 27672), (208, 27747),

Gene: BarryBee_39 Start: 27422, Stop: 27784, Start Num: 111

Candidate Starts for BarryBee_39:

(37, 27245), (Start: 75 @27359 has 1 MA's), (78, 27368), (99, 27407), (Start: 111 @27422 has 56 MA's), (177, 27629), (190, 27683), (192, 27692), (195, 27701), (210, 27737),

Gene: BartholomewSD_39 Start: 28389, Stop: 28766, Start Num: 109

Candidate Starts for BartholomewSD_39:

(Start: 103 @28380 has 20 MA's), (Start: 109 @28389 has 32 MA's), (162, 28563), (174, 28599), (210, 28722),

Gene: Bask21_86 Start: 51578, Stop: 51940, Start Num: 113

Candidate Starts for Bask21_86:

(90, 51545), (Start: 113 @51578 has 112 MA's), (181, 51791), (183, 51806), (204, 51875), (210, 51887), (213, 51893), (226, 51929),

Gene: BearBQ_90 Start: 50811, Stop: 51185, Start Num: 120

Candidate Starts for BearBQ_90:

(Start: 120 @50811 has 9 MA's), (125, 50823), (161, 50952), (180, 51009), (186, 51027), (192, 51048), (193, 51051), (194, 51054), (195, 51057), (212, 51102), (213, 51105), (215, 51111), (219, 51120), (224, 51132),

Gene: BeardedLady_37 Start: 27307, Stop: 27669, Start Num: 111

Candidate Starts for BeardedLady_37:

(37, 27127), (Start: 75 @27244 has 1 MA's), (78, 27253), (Start: 111 @27307 has 56 MA's), (162, 27463), (177, 27514), (190, 27568), (192, 27577), (210, 27622),

Gene: BelmontSKP_38 Start: 26045, Stop: 26371, Start Num: 126

Candidate Starts for BelmontSKP_38:

(Start: 126 @26045 has 61 MA's), (195, 26276), (205, 26312), (208, 26318),

Gene: Bench_89 Start: 52396, Stop: 52758, Start Num: 113

Candidate Starts for Bench_89:

(93, 52369), (Start: 113 @52396 has 112 MA's), (181, 52609), (204, 52693), (210, 52705), (213, 52711), (226, 52747),

Gene: Bernstein_34 Start: 23702, Stop: 24043, Start Num: 126
Candidate Starts for Bernstein_34:
(Start: 126 @23702 has 61 MA's), (152, 23795), (208, 23975),

Gene: Berrie_37 Start: 26747, Stop: 27190, Start Num: 121
Candidate Starts for Berrie_37:
(39, 26564), (52, 26618), (Start: 121 @26747 has 73 MA's), (192, 26999), (195, 27008), (207, 27047), (208, 27050),

Gene: BigBubba_86 Start: 51971, Stop: 52333, Start Num: 113
Candidate Starts for BigBubba_86:
(90, 51938), (Start: 113 @51971 has 112 MA's), (181, 52184), (183, 52199), (204, 52268), (210, 52280), (213, 52286), (226, 52322),

Gene: BilboSwaggins_85 Start: 52677, Stop: 53060, Start Num: 100
Candidate Starts for BilboSwaggins_85:
(Start: 100 @52677 has 3 MA's), (Start: 118 @52698 has 15 MA's), (181, 52911), (204, 52995), (210, 53007), (213, 53013), (226, 53049),

Gene: Birdsong_84 Start: 49089, Stop: 49466, Start Num: 120
Candidate Starts for Birdsong_84:
(32, 48849), (Start: 120 @49089 has 9 MA's), (125, 49101), (161, 49230), (166, 49251), (185, 49302), (192, 49326), (195, 49335), (212, 49380), (213, 49383), (219, 49398), (224, 49410), (236, 49443),

Gene: Bongo_71 Start: 46680, Stop: 47099, Start Num: 105
Candidate Starts for Bongo_71:
(Start: 97 @46671 has 6 MA's), (Start: 105 @46680 has 14 MA's), (139, 46758), (161, 46845), (170, 46875), (186, 46917), (204, 46977), (234, 47052),

Gene: Bosection6_50 Start: 33529, Stop: 33921, Start Num: 107
Candidate Starts for Bosection6_50:
(46, 33406), (55, 33427), (70, 33454), (Start: 107 @33529 has 67 MA's), (213, 33850),

Gene: Bovely_36 Start: 27060, Stop: 27422, Start Num: 111
Candidate Starts for Bovely_36:
(37, 26880), (Start: 75 @26997 has 1 MA's), (78, 27006), (Start: 111 @27060 has 56 MA's), (162, 27216), (177, 27267), (190, 27321), (192, 27330), (210, 27375),

Gene: Bowden_37 Start: 28305, Stop: 28682, Start Num: 109
Candidate Starts for Bowden_37:
(Start: 103 @28296 has 20 MA's), (Start: 109 @28305 has 32 MA's), (162, 28479), (174, 28515), (210, 28638),

Gene: Brahms_34 Start: 23649, Stop: 23990, Start Num: 126
Candidate Starts for Brahms_34:
(Start: 126 @23649 has 61 MA's), (152, 23742), (208, 23922),

Gene: Brataylor_39 Start: 28396, Stop: 28758, Start Num: 111
Candidate Starts for Brataylor_39:

(37, 28216), (Start: 75 @28333 has 1 MA's), (78, 28342), (Start: 111 @28396 has 56 MA's), (177, 28603), (190, 28657), (192, 28666), (193, 28669), (195, 28675), (210, 28711),

Gene: Bricole_70 Start: 46403, Stop: 46822, Start Num: 105

Candidate Starts for Bricole_70:

(Start: 97 @46394 has 6 MA's), (Start: 105 @46403 has 14 MA's), (139, 46481), (161, 46568), (170, 46598), (186, 46640), (204, 46700), (234, 46775),

Gene: Bridgette_65 Start: 40727, Stop: 41116, Start Num: 103

Candidate Starts for Bridgette_65:

(Start: 103 @40727 has 20 MA's), (157, 40877),

Gene: BroPlease_37 Start: 27534, Stop: 27908, Start Num: 113

Candidate Starts for BroPlease_37:

(26, 27219), (29, 27240), (40, 27369), (81, 27486), (Start: 113 @27534 has 112 MA's), (132, 27597), (148, 27654), (162, 27705), (177, 27756), (190, 27810), (210, 27864), (215, 27876),

Gene: BruceLethal_32 Start: 21887, Stop: 21531, Start Num: 107

Candidate Starts for BruceLethal_32:

(7, 22376), (14, 22334), (22, 22241), (87, 21920), (Start: 105 @21890 has 14 MA's), (Start: 107 @21887 has 67 MA's), (175, 21686), (193, 21611), (195, 21605), (210, 21569),

Gene: Bruin_83 Start: 51275, Stop: 51637, Start Num: 113

Candidate Starts for Bruin_83:

(93, 51248), (Start: 113 @51275 has 112 MA's), (181, 51488), (204, 51572), (210, 51584), (213, 51590), (226, 51626),

Gene: BryanRecycles_37 Start: 27411, Stop: 27773, Start Num: 111

Candidate Starts for BryanRecycles_37:

(37, 27231), (Start: 75 @27348 has 1 MA's), (78, 27357), (Start: 111 @27411 has 56 MA's), (162, 27567), (177, 27618), (190, 27672), (192, 27681), (210, 27726),

Gene: BubbaBear_36 Start: 25617, Stop: 25943, Start Num: 126

Candidate Starts for BubbaBear_36:

(Start: 126 @25617 has 61 MA's), (195, 25848), (205, 25884), (208, 25890),

Gene: Buck_87 Start: 52980, Stop: 53342, Start Num: 113

Candidate Starts for Buck_87:

(93, 52953), (Start: 113 @52980 has 112 MA's), (181, 53193), (204, 53277), (210, 53289), (213, 53295), (226, 53331),

Gene: BugsBunny_86 Start: 52804, Stop: 53166, Start Num: 113

Candidate Starts for BugsBunny_86:

(93, 52777), (Start: 113 @52804 has 112 MA's), (181, 53017), (204, 53101), (210, 53113), (213, 53119), (226, 53155),

Gene: Burritobowl_37 Start: 25618, Stop: 25944, Start Num: 126

Candidate Starts for Burritobowl_37:

(Start: 126 @25618 has 61 MA's), (195, 25849), (205, 25885), (208, 25891),

Gene: Butters_52 Start: 35124, Stop: 35516, Start Num: 107

Candidate Starts for Butters_52:

(52, 35016), (Start: 107 @35124 has 67 MA's), (213, 35445),

Gene: Cactus_89 Start: 51619, Stop: 51981, Start Num: 113

Candidate Starts for Cactus_89:

(90, 51586), (Start: 113 @51619 has 112 MA's), (181, 51832), (183, 51847), (204, 51916), (210, 51928), (213, 51934), (226, 51970),

Gene: Caelum_38 Start: 28011, Stop: 28388, Start Num: 109

Candidate Starts for Caelum_38:

(Start: 101 @27999 has 2 MA's), (Start: 103 @28002 has 20 MA's), (Start: 109 @28011 has 32 MA's), (152, 28152), (162, 28185), (193, 28302), (210, 28344),

Gene: Caliburn_36 Start: 27037, Stop: 27399, Start Num: 111

Candidate Starts for Caliburn_36:

(37, 26857), (Start: 75 @26974 has 1 MA's), (78, 26983), (Start: 111 @27037 has 56 MA's), (162, 27193), (177, 27244), (190, 27298), (192, 27307), (210, 27352),

Gene: CallinAllBarbz_37 Start: 25811, Stop: 26263, Start Num: 121

Candidate Starts for CallinAllBarbz_37:

(42, 25643), (59, 25697), (Start: 121 @25811 has 73 MA's), (Start: 133 @25856 has 1 MA's), (138, 25874), (147, 25910), (195, 26072), (208, 26114), (249, 26249),

Gene: Cappuccino_37 Start: 24079, Stop: 24513, Start Num: 121

Candidate Starts for Cappuccino_37:

(63, 23983), (73, 24007), (Start: 121 @24079 has 73 MA's), (Start: 144 @24166 has 1 MA's), (207, 24379),

Gene: Carcharodon_49 Start: 34516, Stop: 34908, Start Num: 107

Candidate Starts for Carcharodon_49:

(Start: 107 @34516 has 67 MA's), (213, 34837),

Gene: Caron_47 Start: 28859, Stop: 29239, Start Num: 121

Candidate Starts for Caron_47:

(Start: 121 @28859 has 73 MA's), (208, 29150),

Gene: Cashington_35 Start: 24964, Stop: 25290, Start Num: 126

Candidate Starts for Cashington_35:

(Start: 126 @24964 has 61 MA's), (157, 25072), (195, 25195), (205, 25231), (208, 25237),

Gene: Cassia_36 Start: 25737, Stop: 26096, Start Num: 121

Candidate Starts for Cassia_36:

(35, 25515), (Start: 121 @25737 has 73 MA's), (208, 26025),

Gene: Celaena_35 Start: 26594, Stop: 26923, Start Num: 126

Candidate Starts for Celaena_35:

(Start: 126 @26594 has 61 MA's), (161, 26714), (162, 26717), (163, 26720), (205, 26861), (208, 26867),

Gene: Celery_40 Start: 28854, Stop: 29222, Start Num: 110

Candidate Starts for Celery_40:

(Start: 110 @28854 has 11 MA's), (132, 28908), (162, 29016), (168, 29040), (177, 29067), (184, 29106), (193, 29133), (195, 29139),

Gene: Celeste_37 Start: 27865, Stop: 28227, Start Num: 111

Candidate Starts for Celeste_37:

(37, 27685), (Start: 75 @27802 has 1 MA's), (78, 27811), (Start: 111 @27865 has 56 MA's), (177, 28072), (190, 28126), (192, 28135), (193, 28138), (195, 28144), (210, 28180),

Gene: Celia_38 Start: 27923, Stop: 28297, Start Num: 109

Candidate Starts for Celia_38:

(Start: 103 @27914 has 20 MA's), (Start: 109 @27923 has 32 MA's), (Start: 133 @27977 has 1 MA's), (162, 28091), (177, 28142), (193, 28208), (195, 28214), (210, 28250), (222, 28280),

Gene: Cen1621_40 Start: 25799, Stop: 26167, Start Num: 121

Candidate Starts for Cen1621_40:

(Start: 121 @25799 has 73 MA's), (147, 25886), (166, 25958), (183, 26006), (195, 26051), (207, 26090),

Gene: Charlie_50 Start: 33268, Stop: 33660, Start Num: 107

Candidate Starts for Charlie_50:

(46, 33145), (55, 33166), (70, 33193), (Start: 107 @33268 has 67 MA's), (213, 33589),

Gene: CheeseTouch_97 Start: 48676, Stop: 49053, Start Num: 120

Candidate Starts for CheeseTouch_97:

(32, 48436), (Start: 120 @48676 has 9 MA's), (125, 48688), (161, 48817), (166, 48838), (192, 48913), (212, 48967), (213, 48970), (219, 48985), (224, 48997), (236, 49030),

Gene: Chewbacca_51 Start: 34516, Stop: 34908, Start Num: 107

Candidate Starts for Chewbacca_51:

(Start: 107 @34516 has 67 MA's), (213, 34837),

Gene: ChiliPepper_34 Start: 26048, Stop: 26380, Start Num: 126

Candidate Starts for ChiliPepper_34:

(Start: 126 @26048 has 61 MA's), (157, 26159), (161, 26171), (163, 26177), (181, 26225), (195, 26282), (205, 26318), (208, 26324),

Gene: ChosenOne_86 Start: 51756, Stop: 52118, Start Num: 113

Candidate Starts for ChosenOne_86:

(93, 51729), (Start: 113 @51756 has 112 MA's), (181, 51969), (204, 52053), (210, 52065), (213, 52071), (226, 52107),

Gene: ChotaBhai_86 Start: 51943, Stop: 52305, Start Num: 113

Candidate Starts for ChotaBhai_86:

(90, 51910), (Start: 113 @51943 has 112 MA's), (181, 52156), (183, 52171), (204, 52240), (210, 52252), (213, 52258), (226, 52294),

Gene: ChuckDuck_63 Start: 40338, Stop: 40727, Start Num: 103

Candidate Starts for ChuckDuck_63:

(80, 40302), (Start: 103 @40338 has 20 MA's), (157, 40488),

Gene: Chucky_36 Start: 27426, Stop: 27788, Start Num: 111

Candidate Starts for Chucky_36:

(37, 27249), (Start: 75 @27363 has 1 MA's), (78, 27372), (99, 27411), (Start: 111 @27426 has 56 MA's), (177, 27633), (190, 27687), (192, 27696), (195, 27705), (210, 27741),

Gene: Cjw1_86 Start: 53450, Stop: 53812, Start Num: 113

Candidate Starts for Cjw1_86:

(93, 53423), (Start: 113 @53450 has 112 MA's), (181, 53663), (204, 53747), (210, 53759), (213, 53765), (226, 53801),

Gene: Clayda5_35 Start: 23636, Stop: 23977, Start Num: 126

Candidate Starts for Clayda5_35:

(Start: 126 @23636 has 61 MA's), (152, 23729), (208, 23909),

Gene: CliffHanger_40 Start: 24541, Stop: 24900, Start Num: 124

Candidate Starts for CliffHanger_40:

(124, 24541), (161, 24670), (200, 24802), (205, 24817), (208, 24823),

Gene: Collard_63 Start: 45817, Stop: 46182, Start Num: 106

Candidate Starts for Collard_63:

(74, 45754), (Start: 106 @45817 has 20 MA's), (Start: 118 @45829 has 15 MA's), (146, 45919), (155, 45958), (162, 45982), (172, 46009), (193, 46078), (194, 46081), (210, 46123), (213, 46129), (215, 46135), (220, 46147), (228, 46165),

Gene: Coltrane_34 Start: 23649, Stop: 23990, Start Num: 126

Candidate Starts for Coltrane_34:

(Start: 126 @23649 has 61 MA's), (152, 23742), (208, 23922),

Gene: Command613_88 Start: 52795, Stop: 53157, Start Num: 113

Candidate Starts for Command613_88:

(93, 52768), (Start: 113 @52795 has 112 MA's), (181, 53008), (204, 53092), (210, 53104), (213, 53110), (226, 53146),

Gene: Community_38 Start: 27474, Stop: 27917, Start Num: 121

Candidate Starts for Community_38:

(Start: 121 @27474 has 73 MA's), (192, 27726), (195, 27735), (208, 27777), (220, 27804), (233, 27840),

Gene: Conan_38 Start: 28818, Stop: 29183, Start Num: 110

Candidate Starts for Conan_38:

(Start: 110 @28818 has 11 MA's), (168, 29001), (177, 29028), (193, 29094),

Gene: Constance_63 Start: 40957, Stop: 41358, Start Num: 103

Candidate Starts for Constance_63:

(60, 40867), (62, 40870), (Start: 103 @40957 has 20 MA's), (157, 41107),

Gene: Contagion_82 Start: 51556, Stop: 51918, Start Num: 113

Candidate Starts for Contagion_82:

(93, 51529), (Start: 113 @51556 has 112 MA's), (181, 51769), (204, 51853), (210, 51865), (213, 51871), (226, 51907),

Gene: Cookies_83 Start: 51800, Stop: 52162, Start Num: 113

Candidate Starts for Cookies_83:

(90, 51767), (Start: 113 @51800 has 112 MA's), (181, 52013), (183, 52028), (204, 52097), (210, 52109), (213, 52115), (226, 52151),

Gene: Cosmo_85 Start: 52400, Stop: 52804, Start Num: 108

Candidate Starts for Cosmo_85:

(69, 52319), (Start: 108 @52400 has 5 MA's), (142, 52487), (152, 52535), (159, 52559), (165, 52580), (167, 52586), (179, 52595), (212, 52697), (216, 52709), (234, 52757), (237, 52763), (242, 52781),

Gene: Cota_32 Start: 21927, Stop: 21571, Start Num: 107

Candidate Starts for Cota_32:

(Start: 105 @21930 has 14 MA's), (Start: 107 @21927 has 67 MA's), (175, 21726), (194, 21648), (195, 21645), (210, 21609),

Gene: Crewmate_41 Start: 26389, Stop: 26751, Start Num: 121

Candidate Starts for Crewmate_41:

(Start: 121 @26389 has 73 MA's), (162, 26527), (195, 26635), (208, 26677),

Gene: CroZenni_37 Start: 25508, Stop: 25834, Start Num: 126

Candidate Starts for CroZenni_37:

(Start: 126 @25508 has 61 MA's), (195, 25739), (205, 25775), (208, 25781),

Gene: CrystalP_85 Start: 52698, Stop: 53060, Start Num: 118

Candidate Starts for CrystalP_85:

(Start: 100 @52677 has 3 MA's), (Start: 118 @52698 has 15 MA's), (181, 52911), (204, 52995), (210, 53007), (213, 53013), (226, 53049),

Gene: Cyan_35 Start: 25187, Stop: 25630, Start Num: 121

Candidate Starts for Cyan_35:

(Start: 121 @25187 has 73 MA's), (147, 25286), (192, 25439), (208, 25490),

Gene: Czyszczone1_87 Start: 52259, Stop: 52621, Start Num: 113

Candidate Starts for Czyszczone1_87:

(93, 52232), (Start: 113 @52259 has 112 MA's), (181, 52472), (204, 52556), (210, 52568), (213, 52574), (226, 52610),

Gene: DS6A_86 Start: 55827, Stop: 56213, Start Num: 106

Candidate Starts for DS6A_86:

(Start: 106 @55827 has 20 MA's), (192, 56088), (193, 56091), (198, 56112), (213, 56142), (223, 56169), (235, 56202),

Gene: Dadosky_67 Start: 46186, Stop: 46551, Start Num: 106

Candidate Starts for Dadosky_67:

(84, 46150), (Start: 106 @46186 has 20 MA's), (Start: 118 @46198 has 15 MA's), (146, 46288), (155, 46327), (162, 46351), (172, 46378), (192, 46444), (193, 46447), (194, 46450), (210, 46492), (213, 46498), (215, 46504), (220, 46516), (228, 46534), (229, 46540),

Gene: Daikon_88 Start: 52746, Stop: 53108, Start Num: 113

Candidate Starts for Daikon_88:

(90, 52713), (Start: 113 @52746 has 112 MA's), (181, 52959), (183, 52974), (204, 53043), (210, 53055), (213, 53061), (226, 53097),

Gene: Danzina_38 Start: 28166, Stop: 28528, Start Num: 111

Candidate Starts for Danzina_38:

(37, 27986), (Start: 75 @28103 has 1 MA's), (78, 28112), (Start: 111 @28166 has 56 MA's), (177, 28373), (190, 28427), (192, 28436), (193, 28439), (195, 28445), (210, 28481),

Gene: Dardanus_52 Start: 35477, Stop: 35866, Start Num: 122

Candidate Starts for Dardanus_52:

(Start: 122 @35477 has 6 MA's), (125, 35489), (131, 35519), (132, 35522), (194, 35735), (213, 35783),

Gene: Daredevil_63 Start: 48481, Stop: 48092, Start Num: 122

Candidate Starts for Daredevil_63:

(Start: 122 @48481 has 6 MA's), (148, 48376), (194, 48208), (206, 48172), (213, 48157), (224, 48133),

Gene: DatBoi_70 Start: 52480, Stop: 52115, Start Num: 120

Candidate Starts for DatBoi_70:

(Start: 120 @52480 has 9 MA's), (134, 52426), (158, 52336), (198, 52213), (212, 52183), (238, 52135),

Gene: Dattran_38 Start: 27972, Stop: 28334, Start Num: 111

Candidate Starts for Dattran_38:

(37, 27792), (Start: 75 @27909 has 1 MA's), (78, 27918), (Start: 111 @27972 has 56 MA's), (177, 28179), (190, 28233), (192, 28242), (193, 28245), (195, 28251), (210, 28287),

Gene: Daudau_37 Start: 28123, Stop: 28500, Start Num: 109

Candidate Starts for Daudau_37:

(Start: 103 @28114 has 20 MA's), (Start: 109 @28123 has 32 MA's), (162, 28297), (193, 28414),

Gene: Dexers_36 Start: 28846, Stop: 29208, Start Num: 110

Candidate Starts for Dexers_36:

(Start: 110 @28846 has 11 MA's), (162, 29005), (168, 29029), (177, 29056), (193, 29122), (195, 29128), (210, 29164),

Gene: Diane_36 Start: 27972, Stop: 28412, Start Num: 75

Candidate Starts for Diane_36:

(55, 27930), (Start: 75 @27972 has 1 MA's), (82, 27990), (95, 28017), (Start: 103 @28026 has 20 MA's), (Start: 109 @28035 has 32 MA's), (119, 28047), (162, 28209), (194, 28329), (210, 28368),

Gene: DickRichards_36 Start: 25947, Stop: 26273, Start Num: 126

Candidate Starts for DickRichards_36:

(Start: 126 @25947 has 61 MA's), (195, 26178), (205, 26214), (208, 26220),

Gene: Didgeridoo_39 Start: 26093, Stop: 26419, Start Num: 126

Candidate Starts for Didgeridoo_39:

(Start: 126 @26093 has 61 MA's), (195, 26324), (205, 26360), (208, 26366),

Gene: Diminimus_72 Start: 46666, Stop: 47094, Start Num: 97

Candidate Starts for Diminimus_72:

(Start: 97 @46666 has 6 MA's), (Start: 105 @46675 has 14 MA's), (139, 46753), (161, 46840), (170, 46870), (186, 46912), (204, 46972), (234, 47047),

Gene: DirtyBubble_37 Start: 26477, Stop: 26803, Start Num: 126

Candidate Starts for DirtyBubble_37:

(1, 25724), (9, 25964), (11, 25982), (15, 26018), (21, 26087), (Start: 126 @26477 has 61 MA's), (161, 26597), (163, 26603), (195, 26708), (200, 26729), (205, 26744), (208, 26750),

Gene: Dismas_35 Start: 26219, Stop: 26551, Start Num: 126

Candidate Starts for Dismas_35:

(Start: 126 @26219 has 61 MA's), (157, 26330), (161, 26342), (163, 26348), (181, 26396), (195, 26453), (205, 26489), (208, 26495),

Gene: DoctorDiddles_85 Start: 51987, Stop: 52349, Start Num: 113
Candidate Starts for DoctorDiddles_85:
(90, 51954), (Start: 113 @51987 has 112 MA's), (181, 52200), (183, 52215), (204, 52284), (210, 52296), (213, 52302), (226, 52338),

Gene: DonkeyMan_55 Start: 37973, Stop: 38404, Start Num: 103
Candidate Starts for DonkeyMan_55:
(Start: 103 @37973 has 20 MA's), (213, 38288), (232, 38339), (246, 38396),

Gene: Donkey_37 Start: 24069, Stop: 24503, Start Num: 121
Candidate Starts for Donkey_37:
(63, 23973), (73, 23997), (Start: 121 @24069 has 73 MA's), (Start: 144 @24156 has 1 MA's), (185, 24297), (207, 24369),

Gene: Doobus_36 Start: 25328, Stop: 25654, Start Num: 126
Candidate Starts for Doobus_36:
(Start: 126 @25328 has 61 MA's), (195, 25559), (205, 25595), (208, 25601),

Gene: Dori_67 Start: 52520, Stop: 52948, Start Num: 106
Candidate Starts for Dori_67:
(Start: 106 @52520 has 20 MA's), (132, 52574), (146, 52625), (155, 52664), (156, 52670), (176, 52739), (183, 52781), (190, 52805), (191, 52808), (193, 52817), (213, 52868), (218, 52883), (222, 52892),

Gene: Doucette_50 Start: 32710, Stop: 33090, Start Num: 103
Candidate Starts for Doucette_50:
(Start: 103 @32710 has 20 MA's), (132, 32764), (157, 32860), (193, 32974), (210, 33019), (212, 33022),

Gene: DrDrey_86 Start: 53178, Stop: 53540, Start Num: 113
Candidate Starts for DrDrey_86:
(93, 53151), (Start: 113 @53178 has 112 MA's), (181, 53391), (204, 53475), (210, 53487), (213, 53493), (226, 53529),

Gene: DrManhattan_35 Start: 24117, Stop: 24467, Start Num: 121
Candidate Starts for DrManhattan_35:
(39, 23940), (43, 23964), (52, 23994), (72, 24036), (Start: 121 @24117 has 73 MA's), (147, 24201), (208, 24405), (211, 24411),

Gene: DrParker_32 Start: 21981, Stop: 21625, Start Num: 107
Candidate Starts for DrParker_32:
(87, 22014), (Start: 107 @21981 has 67 MA's), (162, 21822), (175, 21780), (195, 21699), (210, 21663),

Gene: DrSierra_34 Start: 24046, Stop: 24489, Start Num: 121
Candidate Starts for DrSierra_34:
(31, 23824), (Start: 121 @24046 has 73 MA's), (192, 24298), (195, 24307), (208, 24349), (231, 24406), (248, 24469),

Gene: Dubu_33 Start: 24220, Stop: 24681, Start Num: 92
Candidate Starts for Dubu_33:
(Start: 92 @24220 has 4 MA's), (166, 24400), (185, 24451), (192, 24475), (193, 24478), (233, 24589),

Gene: Dulcita_72 Start: 46667, Stop: 47095, Start Num: 97

Candidate Starts for Dulcita_72:

(Start: 97 @46667 has 6 MA's), (Start: 105 @46676 has 14 MA's), (139, 46754), (161, 46841), (170, 46871), (186, 46913), (204, 46973), (234, 47048),

Gene: Dumbo_86 Start: 51661, Stop: 52023, Start Num: 113

Candidate Starts for Dumbo_86:

(93, 51634), (Start: 113 @51661 has 112 MA's), (181, 51874), (204, 51958), (210, 51970), (213, 51976), (226, 52012),

Gene: Duplicity_49 Start: 34525, Stop: 34917, Start Num: 107

Candidate Starts for Duplicity_49:

(Start: 107 @34525 has 67 MA's), (213, 34846),

Gene: Dusk_83 Start: 51961, Stop: 52323, Start Num: 113

Candidate Starts for Dusk_83:

(93, 51934), (Start: 113 @51961 has 112 MA's), (181, 52174), (204, 52258), (210, 52270), (213, 52276), (226, 52312),

Gene: Dwayne_36 Start: 27413, Stop: 27775, Start Num: 111

Candidate Starts for Dwayne_36:

(37, 27236), (Start: 75 @27350 has 1 MA's), (78, 27359), (99, 27398), (Start: 111 @27413 has 56 MA's), (177, 27620), (190, 27674), (192, 27683), (195, 27692), (210, 27728),

Gene: E1_44 Start: 29853, Stop: 30233, Start Num: 103

Candidate Starts for E1_44:

(80, 29811), (85, 29823), (89, 29832), (Start: 103 @29853 has 20 MA's), (132, 29907), (157, 30003), (193, 30117), (213, 30168),

Gene: E6_48 Start: 32434, Stop: 32817, Start Num: 103

Candidate Starts for E6_48:

(80, 32392), (85, 32404), (89, 32413), (Start: 103 @32434 has 20 MA's), (132, 32488), (157, 32584), (193, 32698), (210, 32743),

Gene: ELB20_35 Start: 28408, Stop: 28785, Start Num: 109

Candidate Starts for ELB20_35:

(Start: 103 @28399 has 20 MA's), (Start: 109 @28408 has 32 MA's), (152, 28549), (162, 28582), (210, 28741),

Gene: Easy2Say_87 Start: 53142, Stop: 53525, Start Num: 100

Candidate Starts for Easy2Say_87:

(Start: 100 @53142 has 3 MA's), (Start: 118 @53163 has 15 MA's), (181, 53376), (204, 53460), (210, 53472), (213, 53478), (226, 53514),

Gene: Eddasa_37 Start: 27411, Stop: 27773, Start Num: 111

Candidate Starts for Eddasa_37:

(37, 27231), (Start: 75 @27348 has 1 MA's), (78, 27357), (Start: 111 @27411 has 56 MA's), (162, 27567), (177, 27618), (190, 27672), (192, 27681), (210, 27726),

Gene: Eden_35 Start: 24432, Stop: 24761, Start Num: 126

Candidate Starts for Eden_35:

(Start: 126 @24432 has 61 MA's), (152, 24525), (161, 24552), (162, 24555), (205, 24699), (208, 24705),

Gene: Edugator_64 Start: 47616, Stop: 47969, Start Num: 118

Candidate Starts for Edugator_64:

(84, 47568), (Start: 106 @47604 has 20 MA's), (Start: 118 @47616 has 15 MA's), (146, 47706), (155, 47745), (162, 47769), (172, 47796), (192, 47862), (193, 47865), (194, 47868), (210, 47910), (213, 47916), (215, 47922), (220, 47934), (228, 47952), (229, 47958),

Gene: Eileen_59 Start: 38213, Stop: 38605, Start Num: 103

Candidate Starts for Eileen_59:

(71, 38147), (83, 38177), (86, 38183), (Start: 103 @38213 has 20 MA's), (157, 38363),

Gene: Ejemplo_35 Start: 27357, Stop: 27719, Start Num: 111

Candidate Starts for Ejemplo_35:

(37, 27177), (Start: 75 @27294 has 1 MA's), (Start: 111 @27357 has 56 MA's), (177, 27564), (190, 27618), (192, 27627), (195, 27636), (210, 27672),

Gene: ElGato_38 Start: 28482, Stop: 28847, Start Num: 110

Candidate Starts for ElGato_38:

(Start: 110 @28482 has 11 MA's), (168, 28665), (177, 28692), (193, 28758),

Gene: Elezi_35 Start: 26877, Stop: 27227, Start Num: 121

Candidate Starts for Elezi_35:

(77, 26808), (Start: 121 @26877 has 73 MA's), (Start: 133 @26922 has 1 MA's), (147, 26961), (162, 27015), (192, 27114), (195, 27123), (208, 27165),

Gene: Elite2014_85 Start: 51755, Stop: 52117, Start Num: 113

Candidate Starts for Elite2014_85:

(93, 51728), (Start: 113 @51755 has 112 MA's), (181, 51968), (204, 52052), (210, 52064), (213, 52070), (226, 52106),

Gene: Elph10_86 Start: 51757, Stop: 52119, Start Num: 113

Candidate Starts for Elph10_86:

(93, 51730), (Start: 113 @51757 has 112 MA's), (181, 51970), (204, 52054), (210, 52066), (213, 52072), (226, 52108),

Gene: Elva_39 Start: 26539, Stop: 26865, Start Num: 126

Candidate Starts for Elva_39:

(Start: 126 @26539 has 61 MA's), (152, 26632), (162, 26662), (200, 26791), (205, 26806), (208, 26812),

Gene: Emaanora_39 Start: 27371, Stop: 27733, Start Num: 111

Candidate Starts for Emaanora_39:

(37, 27194), (Start: 75 @27308 has 1 MA's), (78, 27317), (99, 27356), (Start: 111 @27371 has 56 MA's), (177, 27578), (190, 27632), (192, 27641), (195, 27650), (210, 27686),

Gene: EmiRose_43 Start: 35914, Stop: 36360, Start Num: 121

Candidate Starts for EmiRose_43:

(Start: 121 @35914 has 73 MA's), (132, 35959), (164, 36082), (189, 36166), (212, 36229), (222, 36256), (244, 36313),

Gene: Emmina_86 Start: 51659, Stop: 52021, Start Num: 113

Candidate Starts for Emmina_86:

(93, 51632), (Start: 113 @51659 has 112 MA's), (181, 51872), (204, 51956), (210, 51968), (213, 51974), (226, 52010),

Gene: Emotion_40 Start: 26793, Stop: 27239, Start Num: 121
Candidate Starts for Emotion_40:
(Start: 121 @26793 has 73 MA's), (208, 27096),

Gene: EniyanLRS_81 Start: 52139, Stop: 52543, Start Num: 108
Candidate Starts for EniyanLRS_81:
(69, 52058), (Start: 108 @52139 has 5 MA's), (142, 52226), (152, 52274), (159, 52298), (165, 52319), (167, 52325), (179, 52334), (212, 52436), (216, 52448), (234, 52496), (237, 52502), (242, 52520),

Gene: EnochSoames_39 Start: 27406, Stop: 27768, Start Num: 111
Candidate Starts for EnochSoames_39:
(37, 27226), (Start: 75 @27343 has 1 MA's), (78, 27352), (Start: 111 @27406 has 56 MA's), (162, 27562), (177, 27613), (190, 27667), (192, 27676), (210, 27721),

Gene: Enochoraptor_32 Start: 21843, Stop: 21544, Start Num: 133
Candidate Starts for Enochoraptor_32:
(Start: 105 @21903 has 14 MA's), (Start: 107 @21900 has 67 MA's), (Start: 133 @21843 has 1 MA's), (175, 21699), (194, 21621), (195, 21618), (210, 21582),

Gene: Enoki_32 Start: 21911, Stop: 21555, Start Num: 107
Candidate Starts for Enoki_32:
(87, 21944), (Start: 107 @21911 has 67 MA's), (175, 21710), (195, 21629), (210, 21593),

Gene: Eraser_35 Start: 26868, Stop: 27218, Start Num: 121
Candidate Starts for Eraser_35:
(Start: 121 @26868 has 73 MA's), (Start: 133 @26913 has 1 MA's), (147, 26952), (162, 27006), (192, 27105), (208, 27156),

Gene: Esperer_36 Start: 26873, Stop: 27235, Start Num: 111
Candidate Starts for Esperer_36:
(37, 26693), (Start: 75 @26810 has 1 MA's), (78, 26819), (Start: 111 @26873 has 56 MA's), (162, 27029), (177, 27080), (190, 27134), (192, 27143), (210, 27188),

Gene: Estes_80 Start: 49066, Stop: 49467, Start Num: 106
Candidate Starts for Estes_80:
(Start: 106 @49066 has 20 MA's), (135, 49132), (155, 49210), (186, 49303), (204, 49363), (226, 49417),

Gene: Eula_38 Start: 25719, Stop: 26045, Start Num: 126
Candidate Starts for Eula_38:
(Start: 126 @25719 has 61 MA's), (195, 25950), (200, 25971), (205, 25986),

Gene: Eureka_85 Start: 52671, Stop: 53033, Start Num: 113
Candidate Starts for Eureka_85:
(93, 52644), (Start: 113 @52671 has 112 MA's), (181, 52884), (204, 52968), (210, 52980), (213, 52986), (226, 53022),

Gene: Exile_33 Start: 27350, Stop: 27793, Start Num: 121
Candidate Starts for Exile_33:

(Start: 121 @27350 has 73 MA's), (195, 27611), (208, 27653), (211, 27659), (218, 27677), (223, 27689),

Gene: FairyPath_86 Start: 52874, Stop: 53236, Start Num: 113

Candidate Starts for FairyPath_86:

(93, 52847), (Start: 113 @52874 has 112 MA's), (181, 53087), (204, 53171), (210, 53183), (213, 53189), (226, 53225),

Gene: Filch_87 Start: 51684, Stop: 52046, Start Num: 113

Candidate Starts for Filch_87:

(93, 51657), (Start: 113 @51684 has 112 MA's), (181, 51897), (204, 51981), (210, 51993), (213, 51999), (226, 52035),

Gene: Finalfrontier_37 Start: 26331, Stop: 26657, Start Num: 126

Candidate Starts for Finalfrontier_37:

(Start: 126 @26331 has 61 MA's), (195, 26562), (203, 26595), (208, 26604),

Gene: FireRed_90 Start: 53249, Stop: 53611, Start Num: 113

Candidate Starts for FireRed_90:

(93, 53222), (Start: 113 @53249 has 112 MA's), (181, 53462), (204, 53546), (210, 53558), (213, 53564), (226, 53600),

Gene: FlameThrower_35 Start: 26044, Stop: 26373, Start Num: 126

Candidate Starts for FlameThrower_35:

(Start: 126 @26044 has 61 MA's), (161, 26164), (162, 26167), (163, 26170), (205, 26311), (208, 26317),

Gene: Floof_46 Start: 28537, Stop: 28899, Start Num: 121

Candidate Starts for Floof_46:

(Start: 121 @28537 has 73 MA's), (132, 28582), (169, 28705), (208, 28828),

Gene: Flypotenuse_82 Start: 51609, Stop: 51971, Start Num: 113

Candidate Starts for Flypotenuse_82:

(90, 51576), (Start: 113 @51609 has 112 MA's), (181, 51822), (183, 51837), (204, 51906), (210, 51918), (213, 51924), (226, 51960),

Gene: Franklin22_36 Start: 24418, Stop: 24747, Start Num: 126

Candidate Starts for Franklin22_36:

(Start: 126 @24418 has 61 MA's), (151, 24505), (162, 24541), (163, 24544), (203, 24682), (205, 24685), (208, 24691),

Gene: Fulbright_48 Start: 33605, Stop: 33997, Start Num: 107

Candidate Starts for Fulbright_48:

(Start: 107 @33605 has 67 MA's), (213, 33926),

Gene: GMA4_60 Start: 40216, Stop: 40572, Start Num: 120

Candidate Starts for GMA4_60:

(61, 40105), (Start: 120 @40216 has 9 MA's), (213, 40510),

Gene: Gack_34 Start: 24169, Stop: 24498, Start Num: 126

Candidate Starts for Gack_34:

(Start: 126 @24169 has 61 MA's), (162, 24292), (203, 24433), (208, 24442),

Gene: Gage_88 Start: 52402, Stop: 52764, Start Num: 113

Candidate Starts for Gage_88:

(90, 52369), (Start: 113 @52402 has 112 MA's), (181, 52615), (204, 52699), (210, 52711), (213, 52717), (226, 52753),

Gene: Gambol_37 Start: 23992, Stop: 24522, Start Num: 63

Candidate Starts for Gambol_37:

(63, 23992), (73, 24016), (Start: 121 @24088 has 73 MA's), (Start: 144 @24175 has 1 MA's), (207, 24388),

Gene: GardenSalsa_80 Start: 49270, Stop: 49671, Start Num: 106

Candidate Starts for GardenSalsa_80:

(Start: 106 @49270 has 20 MA's), (155, 49414), (186, 49507), (204, 49567), (226, 49621),

Gene: GardenState_44 Start: 27681, Stop: 28043, Start Num: 121

Candidate Starts for GardenState_44:

(Start: 121 @27681 has 73 MA's), (169, 27849), (185, 27897), (208, 27972),

Gene: Gator_84 Start: 52452, Stop: 52814, Start Num: 113

Candidate Starts for Gator_84:

(90, 52419), (Start: 113 @52452 has 112 MA's), (181, 52665), (183, 52680), (204, 52749), (210, 52761), (213, 52767), (226, 52803),

Gene: Gemini_91 Start: 53056, Stop: 53418, Start Num: 113

Candidate Starts for Gemini_91:

(93, 53029), (Start: 113 @53056 has 112 MA's), (181, 53269), (204, 53353), (210, 53365), (213, 53371), (226, 53407),

Gene: GenevaB15_79 Start: 48719, Stop: 49120, Start Num: 106

Candidate Starts for GenevaB15_79:

(Start: 106 @48719 has 20 MA's), (135, 48785), (155, 48863), (186, 48956), (204, 49016), (226, 49070),

Gene: Gex_49 Start: 34532, Stop: 34924, Start Num: 107

Candidate Starts for Gex_49:

(Start: 107 @34532 has 67 MA's), (213, 34853),

Gene: GirlDinner_36 Start: 27750, Stop: 28127, Start Num: 109

Candidate Starts for GirlDinner_36:

(Start: 101 @27738 has 2 MA's), (Start: 103 @27741 has 20 MA's), (Start: 109 @27750 has 32 MA's), (162, 27924), (174, 27960), (193, 28041), (210, 28083),

Gene: Glaske16_73 Start: 47145, Stop: 47573, Start Num: 97

Candidate Starts for Glaske16_73:

(Start: 97 @47145 has 6 MA's), (Start: 105 @47154 has 14 MA's), (139, 47232), (161, 47319), (170, 47349), (186, 47391), (204, 47451), (234, 47526),

Gene: Glexan_85 Start: 52739, Stop: 53101, Start Num: 113

Candidate Starts for Glexan_85:

(90, 52706), (Start: 113 @52739 has 112 MA's), (181, 52952), (183, 52967), (204, 53036), (210, 53048), (213, 53054), (226, 53090),

Gene: GlobiWarming_67 Start: 40113, Stop: 40502, Start Num: 103

Candidate Starts for GlobiWarming_67:
(Start: 103 @40113 has 20 MA's), (157, 40263),

Gene: Goby_36 Start: 27871, Stop: 28233, Start Num: 111
Candidate Starts for Goby_36:
(37, 27691), (Start: 75 @27808 has 1 MA's), (78, 27817), (Start: 111 @27871 has 56 MA's), (177, 28078), (190, 28132), (192, 28141), (193, 28144), (195, 28150), (210, 28186),

Gene: Godpower_37 Start: 27866, Stop: 28228, Start Num: 111
Candidate Starts for Godpower_37:
(37, 27686), (Start: 75 @27803 has 1 MA's), (Start: 111 @27866 has 56 MA's), (177, 28073), (190, 28127), (192, 28136), (193, 28139), (195, 28145), (210, 28181),

Gene: Goku_85 Start: 52400, Stop: 52762, Start Num: 113
Candidate Starts for Goku_85:
(93, 52373), (Start: 113 @52400 has 112 MA's), (181, 52613), (204, 52697), (210, 52709), (213, 52715), (226, 52751),

Gene: GoldenSpark_90 Start: 52539, Stop: 52901, Start Num: 113
Candidate Starts for GoldenSpark_90:
(93, 52512), (Start: 113 @52539 has 112 MA's), (181, 52752), (204, 52836), (210, 52848), (213, 52854), (226, 52890),

Gene: Goldilocks_89 Start: 51897, Stop: 52259, Start Num: 113
Candidate Starts for Goldilocks_89:
(90, 51864), (Start: 113 @51897 has 112 MA's), (181, 52110), (204, 52194), (210, 52206), (213, 52212), (226, 52248),

Gene: GooberAzure_89 Start: 52539, Stop: 52901, Start Num: 113
Candidate Starts for GooberAzure_89:
(93, 52512), (Start: 113 @52539 has 112 MA's), (181, 52752), (204, 52836), (210, 52848), (213, 52854), (226, 52890),

Gene: Greely_206 Start: 116895, Stop: 117263, Start Num: 118
Candidate Starts for Greely_206:
(44, 116745), (48, 116763), (57, 116781), (Start: 92 @116859 has 4 MA's), (Start: 118 @116895 has 15 MA's), (147, 117006), (164, 117072), (169, 117090), (213, 117210), (215, 117216),

Gene: GreenWeasel_38 Start: 27541, Stop: 27915, Start Num: 113
Candidate Starts for GreenWeasel_38:
(26, 27226), (29, 27247), (40, 27376), (81, 27493), (Start: 113 @27541 has 112 MA's), (132, 27604), (148, 27661), (162, 27712), (177, 27763), (190, 27817), (210, 27871), (215, 27883),

Gene: Gretchen_45 Start: 29159, Stop: 29515, Start Num: 121
Candidate Starts for Gretchen_45:
(Start: 121 @29159 has 73 MA's), (132, 29204), (150, 29261), (208, 29450), (225, 29492),

Gene: Gsput1_48 Start: 35124, Stop: 35474, Start Num: 125
Candidate Starts for Gsput1_48:
(88, 35067), (Start: 121 @35112 has 73 MA's), (125, 35124), (154, 35241), (206, 35403), (212, 35415), (213, 35418),

Gene: Gustav_66 Start: 43170, Stop: 43571, Start Num: 121

Candidate Starts for Gustav_66:

(Start: 121 @43170 has 73 MA's), (180, 43383), (213, 43476), (223, 43503), (226, 43512), (239, 43542), (243, 43557), (245, 43560),

Gene: Haizum_38 Start: 28102, Stop: 28479, Start Num: 109

Candidate Starts for Haizum_38:

(Start: 103 @28093 has 20 MA's), (Start: 109 @28102 has 32 MA's), (162, 28276), (174, 28312), (194, 28396), (210, 28435),

Gene: Halsey_45 Start: 24217, Stop: 24651, Start Num: 121

Candidate Starts for Halsey_45:

(63, 24121), (73, 24145), (Start: 121 @24217 has 73 MA's), (207, 24517),

Gene: HanKaySha_86 Start: 51837, Stop: 52199, Start Num: 113

Candidate Starts for HanKaySha_86:

(93, 51810), (Start: 113 @51837 has 112 MA's), (181, 52050), (204, 52134), (210, 52146), (213, 52152), (226, 52188),

Gene: Hanako_54 Start: 35784, Stop: 36176, Start Num: 107

Candidate Starts for Hanako_54:

(46, 35661), (55, 35682), (70, 35709), (Start: 107 @35784 has 67 MA's), (213, 36105),

Gene: Hank144_38 Start: 28134, Stop: 28523, Start Num: 101

Candidate Starts for Hank144_38:

(Start: 101 @28134 has 2 MA's), (Start: 103 @28137 has 20 MA's), (Start: 109 @28146 has 32 MA's), (152, 28287), (162, 28320), (193, 28437), (210, 28479),

Gene: Harella_86 Start: 53255, Stop: 53617, Start Num: 113

Candidate Starts for Harella_86:

(90, 53222), (Start: 113 @53255 has 112 MA's), (181, 53468), (183, 53483), (204, 53552), (210, 53564), (213, 53570), (226, 53606),

Gene: Heinz_56 Start: 36903, Stop: 37334, Start Num: 103

Candidate Starts for Heinz_56:

(Start: 103 @36903 has 20 MA's), (232, 37269),

Gene: Henry_84 Start: 52138, Stop: 52500, Start Num: 118

Candidate Starts for Henry_84:

(Start: 100 @52117 has 3 MA's), (Start: 118 @52138 has 15 MA's), (181, 52351), (204, 52435), (210, 52447), (213, 52453), (226, 52489),

Gene: Hibiscus_57 Start: 36872, Stop: 37315, Start Num: 98

Candidate Starts for Hibiscus_57:

(4, 36347), (5, 36353), (8, 36401), (10, 36419), (16, 36458), (18, 36467), (24, 36548), (49, 36767), (Start: 98 @36872 has 2 MA's), (232, 37250),

Gene: Highbury_85 Start: 51828, Stop: 52190, Start Num: 113

Candidate Starts for Highbury_85:

(93, 51801), (Start: 113 @51828 has 112 MA's), (181, 52041), (204, 52125), (210, 52137), (213, 52143), (226, 52179),

Gene: Hippo_36 Start: 27422, Stop: 27784, Start Num: 111

Candidate Starts for Hippo_36:

(37, 27245), (Start: 75 @27359 has 1 MA's), (78, 27368), (99, 27407), (Start: 111 @27422 has 56 MA's), (177, 27629), (190, 27683), (192, 27692), (195, 27701), (210, 27737),

Gene: Holt_91 Start: 52953, Stop: 53315, Start Num: 113

Candidate Starts for Holt_91:

(93, 52926), (Start: 113 @52953 has 112 MA's), (181, 53166), (204, 53250), (210, 53262), (213, 53268), (226, 53304),

Gene: Honk_41 Start: 24866, Stop: 25207, Start Num: 121

Candidate Starts for Honk_41:

(117, 24857), (Start: 121 @24866 has 73 MA's), (207, 25157),

Gene: Hoonter_89 Start: 52399, Stop: 52761, Start Num: 113

Candidate Starts for Hoonter_89:

(90, 52366), (Start: 113 @52399 has 112 MA's), (181, 52612), (183, 52627), (204, 52696), (210, 52708), (213, 52714), (226, 52750),

Gene: Hokey_86 Start: 52369, Stop: 52731, Start Num: 113

Candidate Starts for Hokey_86:

(93, 52342), (Start: 113 @52369 has 112 MA's), (181, 52582), (204, 52666), (210, 52678), (213, 52684), (226, 52720),

Gene: HufflyPuff_89 Start: 53202, Stop: 53564, Start Num: 113

Candidate Starts for HufflyPuff_89:

(93, 53175), (Start: 113 @53202 has 112 MA's), (181, 53415), (204, 53499), (210, 53511), (213, 53517), (215, 53523), (226, 53553),

Gene: Hydra_38 Start: 27585, Stop: 27947, Start Num: 111

Candidate Starts for Hydra_38:

(37, 27405), (Start: 75 @27522 has 1 MA's), (78, 27531), (Start: 111 @27585 has 56 MA's), (162, 27741), (177, 27792), (190, 27846), (192, 27855), (210, 27900),

Gene: IAmGroot_44 Start: 28148, Stop: 28510, Start Num: 121

Candidate Starts for IAmGroot_44:

(Start: 121 @28148 has 73 MA's), (169, 28316), (185, 28364), (208, 28439),

Gene: IHOP_84 Start: 52301, Stop: 52663, Start Num: 113

Candidate Starts for IHOP_84:

(93, 52274), (Start: 113 @52301 has 112 MA's), (181, 52514), (204, 52598), (210, 52610), (213, 52616), (226, 52652),

Gene: IPhane7_71 Start: 46680, Stop: 47099, Start Num: 105

Candidate Starts for IPhane7_71:

(Start: 97 @46671 has 6 MA's), (Start: 105 @46680 has 14 MA's), (139, 46758), (161, 46845), (170, 46875), (186, 46917), (204, 46977), (234, 47052),

Gene: Icarian_40 Start: 27112, Stop: 27438, Start Num: 126

Candidate Starts for Icarian_40:

(2, 26479), (9, 26599), (11, 26617), (15, 26653), (21, 26722), (Start: 126 @27112 has 61 MA's), (163, 27238), (179, 27280), (195, 27343), (200, 27364), (205, 27379), (208, 27385),

Gene: Icee_87 Start: 52066, Stop: 52428, Start Num: 113

Candidate Starts for Icee_87:

(90, 52033), (Start: 113 @52066 has 112 MA's), (181, 52279), (183, 52294), (204, 52363), (210, 52375), (213, 52381), (226, 52417),

Gene: Inca_83 Start: 50790, Stop: 51152, Start Num: 118

Candidate Starts for Inca_83:

(Start: 100 @50769 has 3 MA's), (Start: 118 @50790 has 15 MA's), (181, 51003), (204, 51087), (210, 51099), (213, 51105), (226, 51141),

Gene: Indigo_35 Start: 27053, Stop: 27415, Start Num: 111

Candidate Starts for Indigo_35:

(37, 26873), (Start: 75 @26990 has 1 MA's), (78, 26999), (Start: 111 @27053 has 56 MA's), (162, 27209), (177, 27260), (190, 27314), (192, 27323), (210, 27368),

Gene: IndyLu_36 Start: 25645, Stop: 25971, Start Num: 126

Candidate Starts for IndyLu_36:

(Start: 126 @25645 has 61 MA's), (195, 25876), (205, 25912), (208, 25918),

Gene: InvictusManeo_63 Start: 45860, Stop: 46225, Start Num: 106

Candidate Starts for InvictusManeo_63:

(74, 45797), (Start: 106 @45860 has 20 MA's), (Start: 118 @45872 has 15 MA's), (146, 45962), (155, 46001), (162, 46025), (172, 46052), (193, 46121), (194, 46124), (210, 46166), (213, 46172), (215, 46178), (220, 46190), (228, 46208),

Gene: Issmi_38 Start: 28702, Stop: 29079, Start Num: 109

Candidate Starts for Issmi_38:

(Start: 101 @28690 has 2 MA's), (Start: 103 @28693 has 20 MA's), (Start: 109 @28702 has 32 MA's), (174, 28912), (210, 29035),

Gene: Iter_37 Start: 25853, Stop: 26296, Start Num: 121

Candidate Starts for Iter_37:

(50, 25724), (Start: 121 @25853 has 73 MA's), (Start: 133 @25898 has 1 MA's), (192, 26105), (195, 26114), (208, 26156), (211, 26162),

Gene: IttyBittyPiggy_36 Start: 25503, Stop: 25862, Start Num: 121

Candidate Starts for IttyBittyPiggy_36:

(Start: 121 @25503 has 73 MA's), (162, 25641), (208, 25791),

Gene: Itza_38 Start: 27837, Stop: 28211, Start Num: 109

Candidate Starts for Itza_38:

(Start: 103 @27828 has 20 MA's), (Start: 109 @27837 has 32 MA's), (Start: 133 @27891 has 1 MA's), (162, 28005), (177, 28056), (193, 28122), (195, 28128), (210, 28164), (222, 28194),

Gene: Izzy_37 Start: 27458, Stop: 27820, Start Num: 111

Candidate Starts for Izzy_37:

(37, 27278), (Start: 75 @27395 has 1 MA's), (78, 27404), (Start: 111 @27458 has 56 MA's), (162, 27614), (177, 27665), (190, 27719), (192, 27728), (210, 27773),

Gene: Jamie19_48 Start: 34075, Stop: 34467, Start Num: 107

Candidate Starts for Jamie19_48:

(46, 33952), (55, 33973), (70, 34000), (Start: 107 @34075 has 67 MA's), (213, 34396),

Gene: Janeemi_38 Start: 27485, Stop: 27928, Start Num: 121

Candidate Starts for Janeemi_38:

(65, 27377), (66, 27380), (70, 27389), (Start: 121 @27485 has 73 MA's), (192, 27737), (195, 27746), (208, 27788), (220, 27815),

Gene: Janus_37 Start: 28090, Stop: 28467, Start Num: 109

Candidate Starts for Janus_37:

(Start: 101 @28078 has 2 MA's), (Start: 103 @28081 has 20 MA's), (Start: 109 @28090 has 32 MA's), (162, 28264), (174, 28300), (193, 28381), (210, 28423),

Gene: Jash_37 Start: 27411, Stop: 27773, Start Num: 111

Candidate Starts for Jash_37:

(37, 27231), (Start: 75 @27348 has 1 MA's), (78, 27357), (Start: 111 @27411 has 56 MA's), (162, 27567), (177, 27618), (190, 27672), (192, 27681), (210, 27726),

Gene: JasmineDragon_40 Start: 26737, Stop: 27180, Start Num: 121

Candidate Starts for JasmineDragon_40:

(Start: 121 @26737 has 73 MA's), (147, 26836), (208, 27040), (221, 27070),

Gene: JeTaime_86 Start: 53018, Stop: 53380, Start Num: 113

Candidate Starts for JeTaime_86:

(93, 52991), (Start: 113 @53018 has 112 MA's), (181, 53231), (204, 53315), (210, 53327), (213, 53333), (226, 53369),

Gene: Jevington_39 Start: 28493, Stop: 28870, Start Num: 109

Candidate Starts for Jevington_39:

(Start: 103 @28484 has 20 MA's), (Start: 109 @28493 has 32 MA's), (162, 28667), (174, 28703), (193, 28784), (194, 28787),

Gene: Joemato_35 Start: 25218, Stop: 25661, Start Num: 121

Candidate Starts for Joemato_35:

(Start: 121 @25218 has 73 MA's), (147, 25317), (192, 25470), (208, 25521),

Gene: JohnDoe_35 Start: 25209, Stop: 25652, Start Num: 121

Candidate Starts for JohnDoe_35:

(Start: 121 @25209 has 73 MA's), (192, 25461), (208, 25512),

Gene: Johnathan_36 Start: 25051, Stop: 25377, Start Num: 126

Candidate Starts for Johnathan_36:

(Start: 126 @25051 has 61 MA's), (195, 25282), (205, 25318), (208, 25324),

Gene: Jojo24_56 Start: 37218, Stop: 37661, Start Num: 98

Candidate Starts for Jojo24_56:

(Start: 98 @37218 has 2 MA's), (213, 37545), (232, 37596),

Gene: Jovita_38 Start: 25821, Stop: 26147, Start Num: 126

Candidate Starts for Jovita_38:

(Start: 126 @25821 has 61 MA's), (195, 26052), (200, 26073), (205, 26088),

Gene: Jstan_37 Start: 26862, Stop: 27212, Start Num: 121

Candidate Starts for Jstan_37:

(Start: 121 @26862 has 73 MA's), (Start: 133 @26907 has 1 MA's), (147, 26946), (162, 27000), (192, 27099), (208, 27150),

Gene: Judy_67 Start: 41178, Stop: 41567, Start Num: 103

Candidate Starts for Judy_67:

(Start: 103 @41178 has 20 MA's), (157, 41328), (183, 41403), (215, 41496),

Gene: JuneStar_37 Start: 27633, Stop: 27992, Start Num: 121

Candidate Starts for JuneStar_37:

(20, 27243), (Start: 121 @27633 has 73 MA's), (147, 27717), (162, 27771), (185, 27846), (208, 27921),

Gene: Kaine_37 Start: 28633, Stop: 28998, Start Num: 110

Candidate Starts for Kaine_37:

(Start: 110 @28633 has 11 MA's), (168, 28816), (177, 28843), (193, 28909),

Gene: Kalimba_37 Start: 24066, Stop: 24500, Start Num: 121

Candidate Starts for Kalimba_37:

(63, 23970), (73, 23994), (Start: 121 @24066 has 73 MA's), (Start: 144 @24153 has 1 MA's), (185, 24294), (207, 24366),

Gene: Kanye_83 Start: 51885, Stop: 52247, Start Num: 113

Candidate Starts for Kanye_83:

(93, 51858), (Start: 113 @51885 has 112 MA's), (181, 52098), (204, 52182), (210, 52194), (213, 52200), (226, 52236),

Gene: Karkharias_62 Start: 39837, Stop: 40226, Start Num: 102

Candidate Starts for Karkharias_62:

(Start: 102 @39837 has 1 MA's), (157, 39987), (196, 40113),

Gene: Katalie_36 Start: 27596, Stop: 27958, Start Num: 111

Candidate Starts for Katalie_36:

(37, 27413), (Start: 75 @27530 has 1 MA's), (78, 27539), (Start: 111 @27596 has 56 MA's), (177, 27803), (190, 27857), (192, 27866), (195, 27875), (210, 27911),

Gene: Kate33_36 Start: 25417, Stop: 25743, Start Num: 126

Candidate Starts for Kate33_36:

(Start: 126 @25417 has 61 MA's), (195, 25648), (205, 25684), (208, 25690),

Gene: Katzastrophic_36 Start: 26173, Stop: 26502, Start Num: 126

Candidate Starts for Katzastrophic_36:

(Start: 126 @26173 has 61 MA's), (161, 26293), (162, 26296), (163, 26299), (205, 26440), (208, 26446),

Gene: KayMoney_62 Start: 40303, Stop: 40695, Start Num: 103

Candidate Starts for KayMoney_62:

(60, 40213), (62, 40216), (Start: 103 @40303 has 20 MA's), (157, 40453),

Gene: Kaylissa_35 Start: 25154, Stop: 25597, Start Num: 121

Candidate Starts for Kaylissa_35:

(Start: 121 @25154 has 73 MA's), (192, 25406), (208, 25457),

Gene: KeAlii_36 Start: 25807, Stop: 26250, Start Num: 121

Candidate Starts for KeAlii_36:

(38, 25615), (41, 25639), (47, 25669), (67, 25711), (71, 25723), (Start: 121 @25807 has 73 MA's), (147, 25906), (192, 26059), (208, 26110), (211, 26116), (218, 26134), (231, 26167),

Gene: Keiki_32 Start: 21826, Stop: 21470, Start Num: 107

Candidate Starts for Keiki_32:

(Start: 105 @21829 has 14 MA's), (Start: 107 @21826 has 67 MA's), (Start: 133 @21769 has 1 MA's), (175, 21625), (194, 21547), (195, 21544), (210, 21508),

Gene: Kenzers_37 Start: 25644, Stop: 25970, Start Num: 126

Candidate Starts for Kenzers_37:

(Start: 126 @25644 has 61 MA's), (162, 25767), (200, 25896), (205, 25911),

Gene: Kevin1_51 Start: 34560, Stop: 34952, Start Num: 107

Candidate Starts for Kevin1_51:

(52, 34452), (Start: 107 @34560 has 67 MA's), (213, 34881), (215, 34887), (218, 34896),

Gene: Kieran_35 Start: 26228, Stop: 26560, Start Num: 126

Candidate Starts for Kieran_35:

(3, 25631), (12, 25739), (Start: 126 @26228 has 61 MA's), (157, 26339), (161, 26351), (163, 26357), (178, 26393), (181, 26405), (205, 26498), (208, 26504),

Gene: Kimchi_90 Start: 52405, Stop: 52767, Start Num: 113

Candidate Starts for Kimchi_90:

(90, 52372), (Start: 113 @52405 has 112 MA's), (181, 52618), (204, 52702), (210, 52714), (213, 52720), (226, 52756),

Gene: Kithara_61 Start: 44883, Stop: 44470, Start Num: 130

Candidate Starts for Kithara_61:

(53, 45027), (Start: 103 @44925 has 20 MA's), (130, 44883), (201, 44625), (213, 44595),

Gene: Kostya_86 Start: 52403, Stop: 52765, Start Num: 113

Candidate Starts for Kostya_86:

(93, 52376), (Start: 113 @52403 has 112 MA's), (181, 52616), (204, 52700), (210, 52712), (213, 52718), (226, 52754),

Gene: Kozie_44 Start: 32286, Stop: 32642, Start Num: 113

Candidate Starts for Kozie_44:

(Start: 113 @32286 has 112 MA's), (153, 32409), (213, 32586), (215, 32592), (220, 32604),

Gene: Kratio_63 Start: 45599, Stop: 45964, Start Num: 106

Candidate Starts for Kratio_63:

(74, 45536), (Start: 106 @45599 has 20 MA's), (Start: 118 @45611 has 15 MA's), (146, 45701), (155, 45740), (162, 45764), (172, 45791), (193, 45860), (194, 45863), (210, 45905), (213, 45911), (215, 45917), (220, 45929), (228, 45947),

Gene: Kubed_32 Start: 21882, Stop: 21526, Start Num: 107

Candidate Starts for Kubed_32:

(Start: 107 @21882 has 67 MA's), (175, 21681), (193, 21606), (195, 21600), (210, 21564),

Gene: Kukla_66 Start: 40006, Stop: 40383, Start Num: 103

Candidate Starts for Kukla_66:

(Start: 103 @40006 has 20 MA's), (132, 40060), (146, 40108), (162, 40171), (163, 40174), (183, 40231), (194, 40270), (210, 40312), (222, 40342), (223, 40345), (234, 40375),

Gene: Kumao_67 Start: 47222, Stop: 47653, Start Num: 96

Candidate Starts for Kumao_67:

(Start: 96 @47222 has 1 MA's), (183, 47462), (193, 47498), (215, 47555), (220, 47567), (232, 47600),

Gene: Lahqtemish_36 Start: 25690, Stop: 26016, Start Num: 126

Candidate Starts for Lahqtemish_36:

(Start: 126 @25690 has 61 MA's), (195, 25921), (208, 25963),

Gene: Lannister_38 Start: 28076, Stop: 28438, Start Num: 111

Candidate Starts for Lannister_38:

(Start: 75 @28013 has 1 MA's), (78, 28022), (Start: 111 @28076 has 56 MA's), (177, 28283), (190, 28337), (192, 28346), (195, 28355), (210, 28391),

Gene: Larva_66 Start: 47058, Stop: 47423, Start Num: 106

Candidate Starts for Larva_66:

(84, 47022), (Start: 106 @47058 has 20 MA's), (Start: 118 @47070 has 15 MA's), (146, 47160), (155, 47199), (162, 47223), (172, 47250), (192, 47316), (193, 47319), (194, 47322), (210, 47364), (213, 47370), (215, 47376), (220, 47388), (228, 47406), (229, 47412),

Gene: Lauchelly_32 Start: 21931, Stop: 21575, Start Num: 107

Candidate Starts for Lauchelly_32:

(Start: 105 @21934 has 14 MA's), (Start: 107 @21931 has 67 MA's), (Start: 133 @21874 has 1 MA's), (162, 21772), (175, 21730), (194, 21652), (195, 21649), (210, 21613),

Gene: Legacy_36 Start: 27028, Stop: 27390, Start Num: 111

Candidate Starts for Legacy_36:

(37, 26848), (Start: 75 @26965 has 1 MA's), (78, 26974), (Start: 111 @27028 has 56 MA's), (162, 27184), (177, 27235), (190, 27289), (192, 27298), (210, 27343),

Gene: Lego_35 Start: 25100, Stop: 25543, Start Num: 121

Candidate Starts for Lego_35:

(64, 25007), (Start: 121 @25100 has 73 MA's), (192, 25352), (208, 25403),

Gene: Leviosa_32 Start: 21927, Stop: 21571, Start Num: 107

Candidate Starts for Leviosa_32:

(Start: 107 @21927 has 67 MA's), (Start: 133 @21870 has 1 MA's), (193, 21651), (195, 21645), (210, 21609),

Gene: Leviticus_36 Start: 27057, Stop: 27419, Start Num: 111

Candidate Starts for Leviticus_36:

(37, 26877), (Start: 75 @26994 has 1 MA's), (78, 27003), (Start: 111 @27057 has 56 MA's), (162, 27213), (177, 27264), (190, 27318), (192, 27327), (210, 27372),

Gene: Liebe_37 Start: 26991, Stop: 27434, Start Num: 121

Candidate Starts for Liebe_37:

(Start: 121 @26991 has 73 MA's), (Start: 144 @27078 has 1 MA's), (192, 27243), (195, 27252), (207, 27291), (208, 27294), (211, 27300),

Gene: Lika_36 Start: 27869, Stop: 28231, Start Num: 111

Candidate Starts for Lika_36:

(37, 27689), (Start: 75 @27806 has 1 MA's), (Start: 111 @27869 has 56 MA's), (177, 28076), (190, 28130), (192, 28139), (193, 28142), (195, 28148), (210, 28184),

Gene: LilBandit_32 Start: 21724, Stop: 21365, Start Num: 105

Candidate Starts for LilBandit_32:

(Start: 105 @21724 has 14 MA's), (Start: 107 @21721 has 67 MA's), (Start: 133 @21664 has 1 MA's), (175, 21520), (194, 21442), (195, 21439), (210, 21403),

Gene: Lilac_88 Start: 52154, Stop: 52516, Start Num: 113

Candidate Starts for Lilac_88:

(93, 52127), (Start: 113 @52154 has 112 MA's), (181, 52367), (183, 52382), (204, 52451), (210, 52463), (213, 52469), (226, 52505),

Gene: LilhomieP_71 Start: 47159, Stop: 47578, Start Num: 105

Candidate Starts for LilhomieP_71:

(Start: 97 @47150 has 6 MA's), (Start: 105 @47159 has 14 MA's), (139, 47237), (161, 47324), (170, 47354), (186, 47396), (204, 47456), (234, 47531),

Gene: Lilizi_87 Start: 51867, Stop: 52229, Start Num: 113

Candidate Starts for Lilizi_87:

(93, 51840), (Start: 113 @51867 has 112 MA's), (181, 52080), (204, 52164), (210, 52176), (213, 52182), (226, 52218),

Gene: Lilpickle_85 Start: 51755, Stop: 52117, Start Num: 113

Candidate Starts for Lilpickle_85:

(93, 51728), (Start: 113 @51755 has 112 MA's), (181, 51968), (204, 52052), (210, 52064), (213, 52070), (226, 52106),

Gene: LimaBean_36 Start: 25100, Stop: 25426, Start Num: 126

Candidate Starts for LimaBean_36:

(Start: 126 @25100 has 61 MA's), (195, 25331), (205, 25367), (208, 25373),

Gene: LitninMcQueen_97 Start: 51856, Stop: 52233, Start Num: 120

Candidate Starts for LitninMcQueen_97:

(73, 51772), (Start: 120 @51856 has 9 MA's), (125, 51868), (154, 51985), (161, 51997), (166, 52018), (185, 52069), (192, 52093), (212, 52147), (213, 52150), (219, 52165), (224, 52177), (236, 52210),

Gene: Lizalica_34 Start: 25001, Stop: 25444, Start Num: 121

Candidate Starts for Lizalica_34:

(31, 24788), (Start: 121 @25001 has 73 MA's), (147, 25100), (192, 25253), (195, 25262), (208, 25304), (211, 25310), (248, 25424),

Gene: London_35 Start: 26877, Stop: 27227, Start Num: 121

Candidate Starts for London_35:

(77, 26808), (Start: 121 @26877 has 73 MA's), (Start: 133 @26922 has 1 MA's), (147, 26961), (162, 27015), (192, 27114), (195, 27123), (208, 27165),

Gene: Loofah_37 Start: 28278, Stop: 28655, Start Num: 109

Candidate Starts for Loofah_37:

(Start: 103 @28269 has 20 MA's), (Start: 109 @28278 has 32 MA's), (152, 28419), (162, 28452), (210, 28611),

Gene: Lorelei_37 Start: 27928, Stop: 28290, Start Num: 111

Candidate Starts for Lorelei_37:

(37, 27748), (Start: 75 @27865 has 1 MA's), (78, 27874), (Start: 111 @27928 has 56 MA's), (162, 28084), (177, 28135), (190, 28189), (192, 28198), (195, 28207), (210, 28243),

Gene: Loviatar_67 Start: 27664, Stop: 27990, Start Num: 126

Candidate Starts for Loviatar_67:

(2, 27031), (9, 27151), (11, 27169), (15, 27205), (21, 27274), (Start: 126 @27664 has 61 MA's), (163, 27790), (179, 27832), (195, 27895), (200, 27916), (205, 27931), (208, 27937),

Gene: Lynlen_37 Start: 25644, Stop: 25970, Start Num: 126

Candidate Starts for Lynlen_37:

(Start: 126 @25644 has 61 MA's), (162, 25767), (200, 25896), (205, 25911),

Gene: MEAK_32 Start: 21588, Stop: 21232, Start Num: 107

Candidate Starts for MEAK_32:

(87, 21621), (Start: 107 @21588 has 67 MA's), (175, 21387), (195, 21306), (210, 21270),

Gene: MISSy_87 Start: 52261, Stop: 52623, Start Num: 113

Candidate Starts for MISSy_87:

(93, 52234), (Start: 113 @52261 has 112 MA's), (181, 52474), (204, 52558), (210, 52570), (213, 52576), (226, 52612),

Gene: MPhalcon_87 Start: 52254, Stop: 52616, Start Num: 113

Candidate Starts for MPhalcon_87:

(93, 52227), (Start: 113 @52254 has 112 MA's), (181, 52467), (204, 52551), (210, 52563), (213, 52569), (226, 52605),

Gene: MaGuCo_35 Start: 25925, Stop: 26281, Start Num: 144

Candidate Starts for MaGuCo_35:

(Start: 144 @25925 has 1 MA's), (195, 26099), (208, 26141), (211, 26147),

Gene: Mabodamaca_44 Start: 28805, Stop: 29152, Start Num: 121

Candidate Starts for Mabodamaca_44:

(Start: 121 @28805 has 73 MA's), (188, 29027), (195, 29054), (208, 29096),

Gene: MadamMonkfish_86 Start: 51482, Stop: 51844, Start Num: 113

Candidate Starts for MadamMonkfish_86:

(93, 51455), (Start: 113 @51482 has 112 MA's), (181, 51695), (204, 51779), (210, 51791), (213, 51797), (226, 51833),

Gene: Magsby_49 Start: 34533, Stop: 34925, Start Num: 107

Candidate Starts for Magsby_49:

(Start: 107 @34533 has 67 MA's), (213, 34854),

Gene: Mahdia_59 Start: 41385, Stop: 41786, Start Num: 121

Candidate Starts for Mahdia_59:

(Start: 121 @41385 has 73 MA's), (136, 41445), (153, 41508), (166, 41562), (180, 41598), (210, 41685), (213, 41691), (223, 41718), (239, 41757), (245, 41775),

Gene: Manda_88 Start: 53750, Stop: 54112, Start Num: 118

Candidate Starts for Manda_88:

(Start: 100 @53729 has 3 MA's), (Start: 118 @53750 has 15 MA's), (181, 53963), (204, 54047), (210, 54059), (213, 54065), (226, 54101),

Gene: Maneekul_36 Start: 27447, Stop: 27809, Start Num: 111

Candidate Starts for Maneekul_36:

(37, 27267), (Start: 75 @27384 has 1 MA's), (Start: 111 @27447 has 56 MA's), (177, 27654), (190, 27708), (192, 27717), (195, 27726), (210, 27762),

Gene: Mao1_69 Start: 50980, Stop: 51408, Start Num: 106

Candidate Starts for Mao1_69:

(Start: 106 @50980 has 20 MA's), (132, 51034), (146, 51085), (155, 51124), (156, 51130), (176, 51199), (183, 51241), (190, 51265), (192, 51274), (193, 51277), (213, 51328), (218, 51343), (222, 51352),

Gene: Marav_40 Start: 28818, Stop: 29195, Start Num: 109

Candidate Starts for Marav_40:

(Start: 103 @28809 has 20 MA's), (Start: 109 @28818 has 32 MA's), (162, 28992), (174, 29028), (193, 29109), (194, 29112),

Gene: Marshmallow_84 Start: 53031, Stop: 53393, Start Num: 113

Candidate Starts for Marshmallow_84:

(93, 53004), (Start: 113 @53031 has 112 MA's), (181, 53244), (204, 53328), (210, 53340), (213, 53346), (226, 53382),

Gene: MaryV_85 Start: 52221, Stop: 52625, Start Num: 108

Candidate Starts for MaryV_85:

(69, 52140), (Start: 108 @52221 has 5 MA's), (142, 52308), (152, 52356), (159, 52380), (165, 52401), (167, 52407), (179, 52416), (212, 52518), (216, 52530), (234, 52578), (237, 52584), (242, 52602),

Gene: Mask_67 Start: 53263, Stop: 53691, Start Num: 106

Candidate Starts for Mask_67:

(Start: 106 @53263 has 20 MA's), (132, 53317), (146, 53368), (155, 53407), (156, 53413), (176, 53482), (190, 53548), (191, 53551), (193, 53560), (213, 53611), (218, 53626), (222, 53635),

Gene: Maureen_37 Start: 26991, Stop: 27434, Start Num: 121

Candidate Starts for Maureen_37:

(Start: 121 @26991 has 73 MA's), (Start: 144 @27078 has 1 MA's), (192, 27243), (195, 27252), (207, 27291), (208, 27294), (211, 27300),

Gene: Maxxinista_88 Start: 52127, Stop: 52489, Start Num: 113

Candidate Starts for Maxxinista_88:

(93, 52100), (Start: 113 @52127 has 112 MA's), (181, 52340), (204, 52424), (210, 52436), (213, 52442), (226, 52478),

Gene: Melville_52 Start: 34517, Stop: 34909, Start Num: 107

Candidate Starts for Melville_52:

(Start: 107 @34517 has 67 MA's), (213, 34838),

Gene: Mindy_85 Start: 51283, Stop: 51666, Start Num: 100

Candidate Starts for Mindy_85:

(Start: 100 @51283 has 3 MA's), (Start: 118 @51304 has 15 MA's), (181, 51517), (204, 51601), (210, 51613), (213, 51619), (226, 51655),

Gene: MiniMommy_42 Start: 26738, Stop: 27181, Start Num: 121

Candidate Starts for MiniMommy_42:

(Start: 121 @26738 has 73 MA's), (147, 26837), (208, 27041), (221, 27071),

Gene: Miniwave_81 Start: 51799, Stop: 52161, Start Num: 113

Candidate Starts for Miniwave_81:

(93, 51772), (Start: 113 @51799 has 112 MA's), (181, 52012), (204, 52096), (210, 52108), (213, 52114), (226, 52150),

Gene: Misfit_87 Start: 53273, Stop: 53635, Start Num: 113

Candidate Starts for Misfit_87:

(93, 53246), (Start: 113 @53273 has 112 MA's), (181, 53486), (204, 53570), (210, 53582), (213, 53588), (226, 53624),

Gene: MissSwiss_35 Start: 24190, Stop: 24540, Start Num: 121

Candidate Starts for MissSwiss_35:

(39, 23998), (43, 24022), (52, 24052), (72, 24094), (Start: 121 @24190 has 73 MA's), (147, 24274), (195, 24436), (208, 24478), (211, 24484),

Gene: Moldemort_89 Start: 52218, Stop: 52580, Start Num: 113

Candidate Starts for Moldemort_89:

(90, 52185), (Start: 113 @52218 has 112 MA's), (181, 52431), (183, 52446), (204, 52515), (210, 52527), (213, 52533), (226, 52569),

Gene: Mollymur_72 Start: 52998, Stop: 52633, Start Num: 120

Candidate Starts for Mollymur_72:

(80, 53064), (99, 53028), (Start: 120 @52998 has 9 MA's), (212, 52701), (213, 52698),

Gene: Morrissey_62 Start: 43281, Stop: 43685, Start Num: 121

Candidate Starts for Morrissey_62:

(57, 43155), (Start: 121 @43281 has 73 MA's), (135, 43338), (180, 43494), (190, 43524), (210, 43581), (212, 43584), (213, 43587), (223, 43614), (226, 43623), (239, 43653),

Gene: Mosby_82 Start: 51556, Stop: 51918, Start Num: 113

Candidate Starts for Mosby_82:

(93, 51529), (Start: 113 @51556 has 112 MA's), (181, 51769), (204, 51853), (210, 51865), (213, 51871), (226, 51907),

Gene: Moss_42 Start: 24158, Stop: 24592, Start Num: 121

Candidate Starts for Moss_42:

(56, 24050), (63, 24062), (73, 24086), (Start: 121 @24158 has 73 MA's), (207, 24458),

Gene: Moyashi_32 Start: 21693, Stop: 21337, Start Num: 107

Candidate Starts for Moyashi_32:

(87, 21726), (Start: 107 @21693 has 67 MA's), (175, 21492), (194, 21414), (195, 21411), (210, 21375),

Gene: MrAK_32 Start: 21698, Stop: 21342, Start Num: 107

Candidate Starts for MrAK_32:

(87, 21731), (Start: 107 @21698 has 67 MA's), (162, 21539), (175, 21497), (194, 21419), (195, 21416), (210, 21380),

Gene: MrMagoo_81 Start: 49270, Stop: 49671, Start Num: 106

Candidate Starts for MrMagoo_81:

(Start: 106 @49270 has 20 MA's), (155, 49414), (186, 49507), (204, 49567), (226, 49621),

Gene: Mudpuppy_34 Start: 24965, Stop: 25408, Start Num: 121

Candidate Starts for Mudpuppy_34:

(31, 24752), (Start: 121 @24965 has 73 MA's), (147, 25064), (192, 25217), (208, 25268),

Gene: Murica_89 Start: 53202, Stop: 53564, Start Num: 113

Candidate Starts for Murica_89:

(93, 53175), (Start: 113 @53202 has 112 MA's), (181, 53415), (204, 53499), (210, 53511), (213, 53517), (226, 53553),

Gene: Murphy_86 Start: 52639, Stop: 53001, Start Num: 113

Candidate Starts for Murphy_86:

(93, 52612), (Start: 113 @52639 has 112 MA's), (181, 52852), (204, 52936), (210, 52948), (213, 52954), (226, 52990),

Gene: Myrale_86 Start: 52762, Stop: 53124, Start Num: 113

Candidate Starts for Myrale_86:

(90, 52729), (Start: 113 @52762 has 112 MA's), (181, 52975), (204, 53059), (210, 53071), (213, 53077), (226, 53113),

Gene: Myrna_199 Start: 116281, Stop: 116649, Start Num: 118

Candidate Starts for Myrna_199:

(44, 116131), (48, 116149), (Start: 92 @116245 has 4 MA's), (Start: 118 @116281 has 15 MA's), (164, 116458), (169, 116476), (196, 116560), (213, 116596),

Gene: Mysterium_36 Start: 24178, Stop: 24612, Start Num: 121

Candidate Starts for Mysterium_36:

(Start: 121 @24178 has 73 MA's), (207, 24478),

Gene: Nabi_37 Start: 27928, Stop: 28290, Start Num: 111

Candidate Starts for Nabi_37:

(37, 27748), (Start: 75 @27865 has 1 MA's), (78, 27874), (Start: 111 @27928 has 56 MA's), (162, 28084), (177, 28135), (190, 28189), (192, 28198), (195, 28207), (210, 28243),

Gene: Nala_88 Start: 52763, Stop: 53125, Start Num: 113

Candidate Starts for Nala_88:

(93, 52736), (Start: 113 @52763 has 112 MA's), (181, 52976), (204, 53060), (210, 53072), (213, 53078), (226, 53114),

Gene: Nanodon_38 Start: 27697, Stop: 28059, Start Num: 111

Candidate Starts for Nanodon_38:

(37, 27514), (Start: 75 @27631 has 1 MA's), (78, 27640), (Start: 111 @27697 has 56 MA's), (177, 27904), (190, 27958), (192, 27967), (195, 27976), (198, 27991),

Gene: Nanosmite_76 Start: 48317, Stop: 48718, Start Num: 106

Candidate Starts for Nanosmite_76:

(Start: 106 @48317 has 20 MA's), (161, 48482), (186, 48554), (204, 48614), (218, 48647), (226, 48668),

Gene: NelitzaMV_84 Start: 51845, Stop: 52207, Start Num: 113

Candidate Starts for NelitzaMV_84:

(93, 51818), (Start: 113 @51845 has 112 MA's), (181, 52058), (204, 52142), (210, 52154), (213, 52160), (226, 52196),

Gene: Nenae_54 Start: 35786, Stop: 36178, Start Num: 107

Candidate Starts for Nenae_54:

(46, 35663), (55, 35684), (70, 35711), (Start: 107 @35786 has 67 MA's), (213, 36107),

Gene: Nerdos_35 Start: 27052, Stop: 27414, Start Num: 111

Candidate Starts for Nerdos_35:

(37, 26872), (Start: 75 @26989 has 1 MA's), (78, 26998), (Start: 111 @27052 has 56 MA's), (162, 27208), (177, 27259), (190, 27313), (192, 27322), (210, 27367),

Gene: Nesbitt_39 Start: 26358, Stop: 26897, Start Num: 92

Candidate Starts for Nesbitt_39:

(57, 26283), (Start: 92 @26358 has 4 MA's), (127, 26427), (143, 26493), (152, 26541), (173, 26601), (179, 26613), (192, 26661), (194, 26667), (199, 26691), (202, 26712), (214, 26736), (227, 26769), (247, 26841), (250, 26877),

Gene: Nicky22_38 Start: 26183, Stop: 26509, Start Num: 126

Candidate Starts for Nicky22_38:

(Start: 126 @26183 has 61 MA's), (200, 26435), (205, 26450),

Gene: Nimrod_87 Start: 53466, Stop: 53828, Start Num: 113

Candidate Starts for Nimrod_87:

(93, 53439), (Start: 113 @53466 has 112 MA's), (181, 53679), (204, 53763), (210, 53775), (213, 53781), (226, 53817),

Gene: Niobe_35 Start: 26862, Stop: 27212, Start Num: 121

Candidate Starts for Niobe_35:

(Start: 121 @26862 has 73 MA's), (Start: 133 @26907 has 1 MA's), (147, 26946), (162, 27000), (192, 27099), (208, 27150),

Gene: Nishikigoi_38 Start: 28102, Stop: 28479, Start Num: 109

Candidate Starts for Nishikigoi_38:

(Start: 103 @28093 has 20 MA's), (Start: 109 @28102 has 32 MA's), (162, 28276), (174, 28312), (194, 28396), (210, 28435),

Gene: Nitro_36 Start: 26582, Stop: 26929, Start Num: 121

Candidate Starts for Nitro_36:

(Start: 121 @26582 has 73 MA's), (Start: 133 @26627 has 1 MA's), (147, 26666), (162, 26720), (195, 26828), (208, 26870),

Gene: NoSleep_87 Start: 52100, Stop: 52462, Start Num: 113

Candidate Starts for NoSleep_87:

(93, 52073), (Start: 113 @52100 has 112 MA's), (181, 52313), (204, 52397), (210, 52409), (213, 52415), (226, 52451),

Gene: ObiToo_40 Start: 26129, Stop: 26491, Start Num: 121

Candidate Starts for ObiToo_40:

(Start: 121 @26129 has 73 MA's), (162, 26267), (195, 26375), (208, 26417),

Gene: Oliynyk_37 Start: 27411, Stop: 27773, Start Num: 111

Candidate Starts for Oliynyk_37:

(37, 27231), (Start: 75 @27348 has 1 MA's), (78, 27357), (Start: 111 @27411 has 56 MA's), (162, 27567), (177, 27618), (190, 27672), (192, 27681), (210, 27726),

Gene: Omar_39 Start: 28330, Stop: 28707, Start Num: 109

Candidate Starts for Omar_39:

(Start: 103 @28321 has 20 MA's), (Start: 109 @28330 has 32 MA's), (210, 28663),

Gene: OrionPax_85 Start: 51851, Stop: 52213, Start Num: 113

Candidate Starts for OrionPax_85:

(93, 51824), (Start: 113 @51851 has 112 MA's), (181, 52064), (204, 52148), (210, 52160), (213, 52166), (226, 52202),

Gene: Ouroboros_32 Start: 21911, Stop: 21552, Start Num: 105

Candidate Starts for Ouroboros_32:

(87, 21941), (Start: 105 @21911 has 14 MA's), (Start: 107 @21908 has 67 MA's), (162, 21749), (171, 21719), (175, 21707), (195, 21626), (210, 21590),

Gene: Ozzie_36 Start: 27037, Stop: 27399, Start Num: 111

Candidate Starts for Ozzie_36:

(37, 26857), (Start: 75 @26974 has 1 MA's), (78, 26983), (Start: 111 @27037 has 56 MA's), (162, 27193), (177, 27244), (190, 27298), (192, 27307), (210, 27352),

Gene: OzzyJ_37 Start: 27413, Stop: 27775, Start Num: 111

Candidate Starts for OzzyJ_37:

(37, 27236), (Start: 75 @27350 has 1 MA's), (78, 27359), (99, 27398), (Start: 111 @27413 has 56 MA's), (177, 27620), (190, 27674), (192, 27683), (195, 27692), (210, 27728),

Gene: P100.1_32 Start: 21963, Stop: 21607, Start Num: 107

Candidate Starts for P100.1_32:

(Start: 107 @21963 has 67 MA's), (Start: 133 @21906 has 1 MA's), (175, 21762), (195, 21681), (210, 21645),

Gene: P100A_32 Start: 21913, Stop: 21557, Start Num: 107

Candidate Starts for P100A_32:

(Start: 105 @21916 has 14 MA's), (Start: 107 @21913 has 67 MA's), (Start: 133 @21856 has 1 MA's), (162, 21754), (171, 21724), (175, 21712), (195, 21631), (210, 21595),

Gene: P100D_32 Start: 21906, Stop: 21550, Start Num: 107

Candidate Starts for P100D_32:

(Start: 107 @21906 has 67 MA's), (162, 21747), (175, 21705), (194, 21627), (195, 21624), (210, 21588),

Gene: P101A_32 Start: 21932, Stop: 21576, Start Num: 107

Candidate Starts for P101A_32:

(22, 22286), (87, 21965), (Start: 107 @21932 has 67 MA's), (175, 21731), (195, 21650), (210, 21614),

Gene: P104A_32 Start: 21701, Stop: 21345, Start Num: 107

Candidate Starts for P104A_32:

(Start: 105 @21704 has 14 MA's), (Start: 107 @21701 has 67 MA's), (Start: 133 @21644 has 1 MA's), (175, 21500), (195, 21419), (210, 21383),

Gene: P104B_32 Start: 21899, Stop: 21540, Start Num: 105

Candidate Starts for P104B_32:

(Start: 105 @21899 has 14 MA's), (Start: 107 @21896 has 67 MA's), (Start: 133 @21839 has 1 MA's), (175, 21695), (194, 21617), (195, 21614), (210, 21578),

Gene: P105_32 Start: 21561, Stop: 21205, Start Num: 107

Candidate Starts for P105_32:

(87, 21594), (Start: 107 @21561 has 67 MA's), (175, 21360), (194, 21282), (195, 21279), (210, 21243),

Gene: P106A_32 Start: 21990, Stop: 21631, Start Num: 105

Candidate Starts for P106A_32:

(87, 22020), (Start: 105 @21990 has 14 MA's), (Start: 107 @21987 has 67 MA's), (162, 21828), (171, 21798), (175, 21786), (194, 21708), (195, 21705), (210, 21669),

Gene: P106C_33 Start: 21925, Stop: 21569, Start Num: 107

Candidate Starts for P106C_33:

(87, 21958), (Start: 105 @21928 has 14 MA's), (Start: 107 @21925 has 67 MA's), (162, 21766), (171, 21736), (175, 21724), (194, 21646), (195, 21643), (210, 21607),

Gene: P106I_32 Start: 21754, Stop: 21398, Start Num: 107

Candidate Starts for P106I_32:

(87, 21787), (Start: 105 @21757 has 14 MA's), (Start: 107 @21754 has 67 MA's), (162, 21595), (171, 21565), (175, 21553), (194, 21475), (195, 21472), (210, 21436),

Gene: P106L_32 Start: 21925, Stop: 21569, Start Num: 107

Candidate Starts for P106L_32:

(87, 21958), (Start: 105 @21928 has 14 MA's), (Start: 107 @21925 has 67 MA's), (162, 21766), (171, 21736), (175, 21724), (194, 21646), (195, 21643), (210, 21607),

Gene: P106M_32 Start: 21925, Stop: 21569, Start Num: 107

Candidate Starts for P106M_32:

(87, 21958), (Start: 105 @21928 has 14 MA's), (Start: 107 @21925 has 67 MA's), (162, 21766), (171, 21736), (175, 21724), (194, 21646), (195, 21643), (210, 21607),

Gene: P107A_32 Start: 21941, Stop: 21585, Start Num: 107

Candidate Starts for P107A_32:

(87, 21974), (Start: 105 @21944 has 14 MA's), (Start: 107 @21941 has 67 MA's), (162, 21782), (171, 21752), (175, 21740), (187, 21689), (193, 21665), (210, 21623),

Gene: P107C_32 Start: 21878, Stop: 21522, Start Num: 107

Candidate Starts for P107C_32:

(Start: 105 @21881 has 14 MA's), (Start: 107 @21878 has 67 MA's), (175, 21677), (194, 21599), (195, 21596), (210, 21560),

Gene: P108C_32 Start: 21895, Stop: 21536, Start Num: 105

Candidate Starts for P108C_32:

(Start: 105 @21895 has 14 MA's), (Start: 107 @21892 has 67 MA's), (162, 21733), (175, 21691), (194, 21613), (195, 21610), (210, 21574),

Gene: P14.4_32 Start: 21894, Stop: 21538, Start Num: 107

Candidate Starts for P14.4_32:

(22, 22248), (87, 21927), (Start: 107 @21894 has 67 MA's), (162, 21735), (175, 21693), (194, 21615), (195, 21612), (210, 21576),

Gene: P9.1_32 Start: 21865, Stop: 21566, Start Num: 133

Candidate Starts for P9.1_32:

(Start: 105 @21925 has 14 MA's), (Start: 107 @21922 has 67 MA's), (Start: 133 @21865 has 1 MA's), (162, 21763), (175, 21721), (195, 21640), (210, 21604),

Gene: PA6_33 Start: 21886, Stop: 21530, Start Num: 107
Candidate Starts for PA6_33:
(Start: 107 @21886 has 67 MA's), (162, 21727), (175, 21685), (195, 21604), (210, 21568),

Gene: PAD20_33 Start: 21666, Stop: 21310, Start Num: 107
Candidate Starts for PAD20_33:
(22, 22020), (Start: 105 @21669 has 14 MA's), (Start: 107 @21666 has 67 MA's), (Start: 133 @21609 has 1 MA's), (175, 21465), (195, 21384), (210, 21348),

Gene: PAS50_33 Start: 21831, Stop: 21475, Start Num: 107
Candidate Starts for PAS50_33:
(14, 22278), (22, 22185), (Start: 105 @21834 has 14 MA's), (Start: 107 @21831 has 67 MA's), (175, 21630), (195, 21549), (210, 21513),

Gene: PHL010M04_32 Start: 21909, Stop: 21550, Start Num: 105
Candidate Starts for PHL010M04_32:
(Start: 105 @21909 has 14 MA's), (Start: 107 @21906 has 67 MA's), (162, 21747), (175, 21705), (195, 21624), (210, 21588),

Gene: PHL037M02_32 Start: 21893, Stop: 21534, Start Num: 105
Candidate Starts for PHL037M02_32:
(87, 21923), (Start: 105 @21893 has 14 MA's), (Start: 107 @21890 has 67 MA's), (Start: 133 @21833 has 1 MA's), (162, 21731), (175, 21689), (193, 21614), (195, 21608), (210, 21572),

Gene: PHL060L00_32 Start: 21736, Stop: 21380, Start Num: 107
Candidate Starts for PHL060L00_32:
(Start: 105 @21739 has 14 MA's), (Start: 107 @21736 has 67 MA's), (175, 21535), (195, 21454), (210, 21418),

Gene: PHL067M10_32 Start: 21856, Stop: 21500, Start Num: 107
Candidate Starts for PHL067M10_32:
(Start: 105 @21859 has 14 MA's), (Start: 107 @21856 has 67 MA's), (Start: 133 @21799 has 1 MA's), (162, 21697), (175, 21655), (194, 21577), (195, 21574), (210, 21538),

Gene: PHL071N05_32 Start: 21918, Stop: 21559, Start Num: 105
Candidate Starts for PHL071N05_32:
(87, 21948), (Start: 105 @21918 has 14 MA's), (Start: 107 @21915 has 67 MA's), (Start: 133 @21858 has 1 MA's), (162, 21756), (175, 21714), (194, 21636), (195, 21633), (210, 21597),

Gene: PHL111M01_32 Start: 21613, Stop: 21257, Start Num: 107
Candidate Starts for PHL111M01_32:
(87, 21646), (Start: 107 @21613 has 67 MA's), (175, 21412), (195, 21331), (210, 21295),

Gene: PHL112N00_32 Start: 21923, Stop: 21567, Start Num: 107
Candidate Starts for PHL112N00_32:
(Start: 105 @21926 has 14 MA's), (Start: 107 @21923 has 67 MA's), (162, 21764), (175, 21722), (195, 21641), (210, 21605),

Gene: PHL113M01_32 Start: 21662, Stop: 21306, Start Num: 107
Candidate Starts for PHL113M01_32:
(87, 21695), (Start: 107 @21662 has 67 MA's), (175, 21461), (194, 21383), (210, 21344),

Gene: PHL114L00_32 Start: 21878, Stop: 21522, Start Num: 107

Candidate Starts for PHL114L00_32:

(87, 21911), (Start: 105 @21881 has 14 MA's), (Start: 107 @21878 has 67 MA's), (175, 21677), (194, 21599), (195, 21596), (210, 21560),

Gene: Pablito_36 Start: 27641, Stop: 28030, Start Num: 101

Candidate Starts for Pablito_36:

(Start: 101 @27641 has 2 MA's), (Start: 103 @27644 has 20 MA's), (Start: 109 @27653 has 32 MA's), (152, 27794), (162, 27827), (193, 27944), (210, 27986),

Gene: Paedore_36 Start: 28263, Stop: 28640, Start Num: 109

Candidate Starts for Paedore_36:

(Start: 103 @28254 has 20 MA's), (Start: 109 @28263 has 32 MA's), (152, 28404), (162, 28437), (210, 28596),

Gene: Palpatine_88 Start: 53229, Stop: 53591, Start Num: 113

Candidate Starts for Palpatine_88:

(93, 53202), (Start: 113 @53229 has 112 MA's), (181, 53442), (204, 53526), (210, 53538), (213, 53544), (226, 53580),

Gene: Panchino_47 Start: 35421, Stop: 35813, Start Num: 107

Candidate Starts for Panchino_47:

(46, 35298), (55, 35319), (70, 35346), (Start: 107 @35421 has 67 MA's), (213, 35742),

Gene: Paolo_39 Start: 28672, Stop: 29049, Start Num: 109

Candidate Starts for Paolo_39:

(Start: 103 @28663 has 20 MA's), (Start: 109 @28672 has 32 MA's), (162, 28846), (174, 28882), (193, 28963), (210, 29005),

Gene: Paperbeatsrock_85 Start: 52477, Stop: 52839, Start Num: 113

Candidate Starts for Paperbeatsrock_85:

(93, 52450), (Start: 113 @52477 has 112 MA's), (181, 52690), (204, 52774), (210, 52786), (213, 52792), (226, 52828),

Gene: Parmesanjohn_49 Start: 34536, Stop: 34928, Start Num: 107

Candidate Starts for Parmesanjohn_49:

(Start: 107 @34536 has 67 MA's), (213, 34857),

Gene: Pat3_84 Start: 50872, Stop: 51234, Start Num: 113

Candidate Starts for Pat3_84:

(90, 50839), (Start: 113 @50872 has 112 MA's), (181, 51085), (183, 51100), (204, 51169), (210, 51181), (213, 51187), (226, 51223),

Gene: Pavo_38 Start: 29091, Stop: 29456, Start Num: 110

Candidate Starts for Pavo_38:

(Start: 110 @29091 has 11 MA's), (168, 29274), (177, 29301), (193, 29367),

Gene: Peas_64 Start: 41595, Stop: 41996, Start Num: 103

Candidate Starts for Peas_64:

(Start: 103 @41595 has 20 MA's), (157, 41745),

Gene: PegLeg_70 Start: 46420, Stop: 46839, Start Num: 105

Candidate Starts for PegLeg_70:

(Start: 97 @46411 has 6 MA's), (Start: 105 @46420 has 14 MA's), (139, 46498), (161, 46585), (170, 46615), (186, 46657), (204, 46717), (234, 46792),

Gene: PeggyLeg03_63 Start: 40587, Stop: 40976, Start Num: 103
Candidate Starts for PeggyLeg03_63:
(Start: 103 @40587 has 20 MA's), (157, 40737),

Gene: Percival_46 Start: 28994, Stop: 29350, Start Num: 121
Candidate Starts for Percival_46:
(Start: 121 @28994 has 73 MA's), (132, 29039), (150, 29096), (208, 29285), (225, 29327),

Gene: Petra64142_90 Start: 53696, Stop: 54058, Start Num: 113
Candidate Starts for Petra64142_90:
(93, 53669), (Start: 113 @53696 has 112 MA's), (181, 53909), (204, 53993), (210, 54005), (213, 54011), (226, 54047),

Gene: Phabba_210 Start: 116249, Stop: 116617, Start Num: 118
Candidate Starts for Phabba_210:
(48, 116117), (Start: 92 @116213 has 4 MA's), (Start: 118 @116249 has 15 MA's), (164, 116426), (169, 116444), (213, 116564), (215, 116570),

Gene: Phaja_84 Start: 52303, Stop: 52665, Start Num: 113
Candidate Starts for Phaja_84:
(93, 52276), (Start: 113 @52303 has 112 MA's), (181, 52516), (204, 52600), (210, 52612), (213, 52618), (226, 52654),

Gene: PhancyPhin_54 Start: 35780, Stop: 36172, Start Num: 107
Candidate Starts for PhancyPhin_54:
(46, 35657), (55, 35678), (70, 35705), (Start: 107 @35780 has 67 MA's), (213, 36101),

Gene: Pharsalus_83 Start: 52277, Stop: 52639, Start Num: 113
Candidate Starts for Pharsalus_83:
(93, 52250), (Start: 113 @52277 has 112 MA's), (181, 52490), (204, 52574), (210, 52586), (213, 52592), (226, 52628),

Gene: PhatBacter_90 Start: 53249, Stop: 53611, Start Num: 113
Candidate Starts for PhatBacter_90:
(93, 53222), (Start: 113 @53249 has 112 MA's), (181, 53462), (204, 53546), (210, 53558), (213, 53564), (226, 53600),

Gene: Phaux_88 Start: 53244, Stop: 53606, Start Num: 113
Candidate Starts for Phaux_88:
(93, 53217), (Start: 113 @53244 has 112 MA's), (181, 53457), (204, 53541), (210, 53553), (213, 53559), (226, 53595),

Gene: Phayonce_51 Start: 37143, Stop: 37571, Start Num: 106
Candidate Starts for Phayonce_51:
(Start: 106 @37143 has 20 MA's), (132, 37197), (146, 37248), (155, 37287), (156, 37293), (176, 37362), (183, 37404), (190, 37428), (192, 37437), (193, 37440), (213, 37491), (218, 37506), (222, 37515),

Gene: Phettuccine_36 Start: 27053, Stop: 27415, Start Num: 111
Candidate Starts for Phettuccine_36:

(37, 26873), (Start: 75 @26990 has 1 MA's), (78, 26999), (Start: 111 @27053 has 56 MA's), (162, 27209), (177, 27260), (190, 27314), (192, 27323), (210, 27368),

Gene: Phisb_38 Start: 25777, Stop: 26103, Start Num: 126

Candidate Starts for Phisb_38:

(Start: 126 @25777 has 61 MA's), (157, 25885), (195, 26008), (205, 26044), (208, 26050),

Gene: Phives_38 Start: 27302, Stop: 27745, Start Num: 121

Candidate Starts for Phives_38:

(65, 27194), (66, 27197), (70, 27206), (Start: 121 @27302 has 73 MA's), (192, 27554), (195, 27563), (208, 27605), (220, 27632), (233, 27668),

Gene: Phloss_47 Start: 33943, Stop: 34335, Start Num: 107

Candidate Starts for Phloss_47:

(Start: 107 @33943 has 67 MA's), (213, 34264),

Gene: Phrann_51 Start: 36063, Stop: 36455, Start Num: 107

Candidate Starts for Phrann_51:

(46, 35940), (55, 35961), (70, 35988), (Start: 107 @36063 has 67 MA's), (213, 36384),

Gene: Phrux_83 Start: 51798, Stop: 52160, Start Num: 118

Candidate Starts for Phrux_83:

(Start: 100 @51777 has 3 MA's), (Start: 118 @51798 has 15 MA's), (181, 52011), (204, 52095), (210, 52107), (213, 52113), (226, 52149),

Gene: Pipsqueaks_49 Start: 34513, Stop: 34905, Start Num: 107

Candidate Starts for Pipsqueaks_49:

(Start: 107 @34513 has 67 MA's), (213, 34834),

Gene: Pirate_32 Start: 21811, Stop: 21455, Start Num: 107

Candidate Starts for Pirate_32:

(Start: 105 @21814 has 14 MA's), (Start: 107 @21811 has 67 MA's), (Start: 133 @21754 has 1 MA's), (175, 21610), (194, 21532), (195, 21529), (210, 21493),

Gene: Pixelle_35 Start: 26837, Stop: 27184, Start Num: 121

Candidate Starts for Pixelle_35:

(Start: 121 @26837 has 73 MA's), (147, 26921), (195, 27083), (208, 27125),

Gene: Policronamos_90 Start: 53244, Stop: 53606, Start Num: 113

Candidate Starts for Policronamos_90:

(93, 53217), (Start: 113 @53244 has 112 MA's), (181, 53457), (204, 53541), (210, 53553), (213, 53559), (226, 53595),

Gene: Porky_85 Start: 51667, Stop: 52029, Start Num: 113

Candidate Starts for Porky_85:

(93, 51640), (Start: 113 @51667 has 112 MA's), (181, 51880), (204, 51964), (210, 51976), (213, 51982), (226, 52018),

Gene: Powerpuff_37 Start: 26303, Stop: 26746, Start Num: 121

Candidate Starts for Powerpuff_37:

(Start: 121 @26303 has 73 MA's), (192, 26555), (208, 26606),

Gene: Procrass1_32 Start: 21885, Stop: 21529, Start Num: 107

Candidate Starts for Procrass1_32:

(Start: 107 @21885 has 67 MA's), (175, 21684), (194, 21606), (195, 21603), (210, 21567),

Gene: Provolone_38 Start: 28473, Stop: 28838, Start Num: 110

Candidate Starts for Provolone_38:

(Start: 110 @28473 has 11 MA's), (168, 28656), (177, 28683), (193, 28749),

Gene: Psycho_65 Start: 46183, Stop: 46548, Start Num: 106

Candidate Starts for Psycho_65:

(84, 46147), (Start: 106 @46183 has 20 MA's), (Start: 118 @46195 has 15 MA's), (146, 46285), (155, 46324), (162, 46348), (172, 46375), (192, 46441), (193, 46444), (194, 46447), (210, 46489), (213, 46495), (215, 46501), (220, 46513), (228, 46531), (229, 46537),

Gene: Pucara_59 Start: 40031, Stop: 40420, Start Num: 103

Candidate Starts for Pucara_59:

(Start: 103 @40031 has 20 MA's), (157, 40181),

Gene: Puginator_39 Start: 28693, Stop: 29070, Start Num: 109

Candidate Starts for Puginator_39:

(Start: 103 @28684 has 20 MA's), (Start: 109 @28693 has 32 MA's), (135, 28771), (162, 28867), (174, 28903), (210, 29026),

Gene: Pumpkin_89 Start: 52895, Stop: 53257, Start Num: 113

Candidate Starts for Pumpkin_89:

(93, 52868), (Start: 113 @52895 has 112 MA's), (181, 53108), (204, 53192), (210, 53204), (213, 53210), (226, 53246),

Gene: Pumpkins_36 Start: 26180, Stop: 26539, Start Num: 121

Candidate Starts for Pumpkins_36:

(54, 26060), (Start: 121 @26180 has 73 MA's), (162, 26318), (208, 26468),

Gene: Puppies_60 Start: 41273, Stop: 41683, Start Num: 121

Candidate Starts for Puppies_60:

(Start: 121 @41273 has 73 MA's), (128, 41294), (160, 41426), (174, 41468), (178, 41477), (210, 41582), (213, 41588),

Gene: Purgamenstris_54 Start: 35784, Stop: 36176, Start Num: 107

Candidate Starts for Purgamenstris_54:

(46, 35661), (55, 35682), (70, 35709), (Start: 107 @35784 has 67 MA's), (213, 36105),

Gene: QMacho_39 Start: 26201, Stop: 26527, Start Num: 126

Candidate Starts for QMacho_39:

(Start: 126 @26201 has 61 MA's), (200, 26453), (205, 26468),

Gene: Quallification_87 Start: 52885, Stop: 53247, Start Num: 113

Candidate Starts for Quallification_87:

(93, 52858), (Start: 113 @52885 has 112 MA's), (181, 53098), (204, 53182), (210, 53194), (213, 53200), (226, 53236),

Gene: QueenBey_32 Start: 21868, Stop: 21512, Start Num: 107

Candidate Starts for QueenBey_32:

(Start: 107 @21868 has 67 MA's), (162, 21709), (175, 21667), (194, 21589), (210, 21550),

Gene: Quenya_36 Start: 25890, Stop: 26219, Start Num: 126

Candidate Starts for Quenya_36:

(13, 25413), (23, 25524), (27, 25566), (Start: 126 @25890 has 61 MA's), (151, 25977), (162, 26013), (163, 26016), (200, 26142), (205, 26157), (208, 26163),

Gene: R4_37 Start: 28418, Stop: 28795, Start Num: 109

Candidate Starts for R4_37:

(Start: 103 @28409 has 20 MA's), (Start: 109 @28418 has 32 MA's), (152, 28559), (162, 28592), (210, 28751),

Gene: REQ3_19 Start: 8920, Stop: 9282, Start Num: 120

Candidate Starts for REQ3_19:

(Start: 120 @8920 has 9 MA's), (132, 8965), (161, 9061), (163, 9067), (164, 9073), (192, 9157), (213, 9211), (236, 9262), (241, 9274),

Gene: Rakim_87 Start: 52214, Stop: 52576, Start Num: 113

Candidate Starts for Rakim_87:

(90, 52181), (Start: 113 @52214 has 112 MA's), (181, 52427), (204, 52511), (210, 52523), (213, 52529), (226, 52565),

Gene: Rana_37 Start: 27928, Stop: 28290, Start Num: 111

Candidate Starts for Rana_37:

(37, 27748), (Start: 75 @27865 has 1 MA's), (78, 27874), (Start: 111 @27928 has 56 MA's), (162, 28084), (177, 28135), (190, 28189), (192, 28198), (195, 28207), (210, 28243),

Gene: Raymond7_48 Start: 35572, Stop: 35964, Start Num: 107

Candidate Starts for Raymond7_48:

(46, 35449), (55, 35470), (70, 35497), (Start: 107 @35572 has 67 MA's), (213, 35893),

Gene: RedBear_37 Start: 27596, Stop: 27958, Start Num: 111

Candidate Starts for RedBear_37:

(37, 27413), (Start: 75 @27530 has 1 MA's), (78, 27539), (Start: 111 @27596 has 56 MA's), (177, 27803), (190, 27857), (192, 27866), (195, 27875), (210, 27911),

Gene: Redi_54 Start: 35783, Stop: 36175, Start Num: 107

Candidate Starts for Redi_54:

(46, 35660), (55, 35681), (70, 35708), (Start: 107 @35783 has 67 MA's), (213, 36104),

Gene: Reedo_35 Start: 24148, Stop: 24591, Start Num: 121

Candidate Starts for Reedo_35:

(Start: 121 @24148 has 73 MA's), (Start: 133 @24193 has 1 MA's), (147, 24247), (192, 24400), (195, 24409), (208, 24451), (211, 24457), (220, 24478),

Gene: Reindeer_73 Start: 47812, Stop: 48231, Start Num: 105

Candidate Starts for Reindeer_73:

(Start: 97 @47803 has 6 MA's), (Start: 105 @47812 has 14 MA's), (153, 47950), (181, 48025), (186, 48049), (204, 48109), (234, 48184),

Gene: Rey_78 Start: 48943, Stop: 49344, Start Num: 106

Candidate Starts for Rey_78:

(Start: 106 @48943 has 20 MA's), (155, 49087), (186, 49180), (204, 49240), (226, 49294),

Gene: Reyja_59 Start: 38515, Stop: 38931, Start Num: 103

Candidate Starts for Reyja_59:

(16, 38104), (18, 38113), (24, 38194), (49, 38413), (Start: 103 @38515 has 20 MA's), (190, 38767), (194, 38782), (213, 38830),

Gene: Rileysaurus_31 Start: 21916, Stop: 21560, Start Num: 107

Candidate Starts for Rileysaurus_31:

(Start: 105 @21919 has 14 MA's), (Start: 107 @21916 has 67 MA's), (Start: 133 @21859 has 1 MA's), (162, 21757), (175, 21715), (194, 21637), (195, 21634), (210, 21598),

Gene: Rimmer_86 Start: 52254, Stop: 52616, Start Num: 112

Candidate Starts for Rimmer_86:

(Start: 112 @52254 has 1 MA's), (181, 52467), (183, 52482), (204, 52551), (210, 52563), (213, 52569), (226, 52605),

Gene: RiverMonster_86 Start: 52415, Stop: 52777, Start Num: 113

Candidate Starts for RiverMonster_86:

(93, 52388), (Start: 113 @52415 has 112 MA's), (181, 52628), (204, 52712), (210, 52724), (213, 52730), (226, 52766),

Gene: Rollins_34 Start: 23702, Stop: 24043, Start Num: 126

Candidate Starts for Rollins_34:

(Start: 126 @23702 has 61 MA's), (152, 23795), (208, 23975),

Gene: Rona_35 Start: 26210, Stop: 26542, Start Num: 126

Candidate Starts for Rona_35:

(3, 25613), (12, 25721), (Start: 126 @26210 has 61 MA's), (157, 26321), (161, 26333), (163, 26339), (181, 26387), (195, 26444), (205, 26480), (208, 26486),

Gene: RootBeer_52 Start: 36912, Stop: 37301, Start Num: 103

Candidate Starts for RootBeer_52:

(Start: 103 @36912 has 20 MA's), (157, 37062),

Gene: Rubeelu_52 Start: 35124, Stop: 35516, Start Num: 107

Candidate Starts for Rubeelu_52:

(52, 35016), (Start: 107 @35124 has 67 MA's), (213, 35445),

Gene: Rusticus_37 Start: 27411, Stop: 27773, Start Num: 111

Candidate Starts for Rusticus_37:

(37, 27231), (Start: 75 @27348 has 1 MA's), (78, 27357), (Start: 111 @27411 has 56 MA's), (162, 27567), (177, 27618), (190, 27672), (192, 27681), (210, 27726),

Gene: SKKY_32 Start: 21667, Stop: 21311, Start Num: 107

Candidate Starts for SKKY_32:

(87, 21700), (Start: 107 @21667 has 67 MA's), (162, 21508), (175, 21466), (195, 21385), (210, 21349),

Gene: Saftant_37 Start: 29043, Stop: 29411, Start Num: 110

Candidate Starts for Saftant_37:

(Start: 110 @29043 has 11 MA's), (168, 29229), (177, 29256), (193, 29322), (195, 29328), (210, 29364),

Gene: Saints25_85 Start: 51828, Stop: 52190, Start Num: 113

Candidate Starts for Saints25_85:

(93, 51801), (Start: 113 @51828 has 112 MA's), (181, 52041), (204, 52125), (210, 52137), (213, 52143), (226, 52179),

Gene: Samy_60 Start: 37282, Stop: 37698, Start Num: 115

Candidate Starts for Samy_60:

(Start: 115 @37282 has 1 MA's), (149, 37390), (155, 37414), (194, 37534), (195, 37537), (197, 37549), (207, 37576), (211, 37585), (220, 37606), (226, 37624),

Gene: SanaSana_40 Start: 27314, Stop: 27640, Start Num: 126

Candidate Starts for SanaSana_40:

(Start: 126 @27314 has 61 MA's), (163, 27440), (195, 27545), (200, 27566), (205, 27581), (208, 27587),

Gene: SansAfet_38 Start: 25631, Stop: 25957, Start Num: 126

Candidate Starts for SansAfet_38:

(Start: 126 @25631 has 61 MA's), (195, 25862), (205, 25898), (208, 25904),

Gene: SarBear_37 Start: 25498, Stop: 25824, Start Num: 126

Candidate Starts for SarBear_37:

(Start: 126 @25498 has 61 MA's), (200, 25750), (205, 25765),

Gene: SarahRose_36 Start: 27421, Stop: 27783, Start Num: 111

Candidate Starts for SarahRose_36:

(37, 27244), (Start: 75 @27358 has 1 MA's), (78, 27367), (99, 27406), (Start: 111 @27421 has 56 MA's), (177, 27628), (190, 27682), (192, 27691), (195, 27700), (210, 27736),

Gene: Sashimi_87 Start: 47693, Stop: 48073, Start Num: 103

Candidate Starts for Sashimi_87:

(79, 47648), (Start: 103 @47693 has 20 MA's), (146, 47795), (157, 47843), (169, 47885), (213, 48008),

Gene: Sassay_81 Start: 50518, Stop: 50880, Start Num: 113

Candidate Starts for Sassay_81:

(93, 50491), (Start: 113 @50518 has 112 MA's), (181, 50731), (204, 50815), (210, 50827), (213, 50833), (226, 50869),

Gene: Schmidt_51 Start: 34772, Stop: 35146, Start Num: 122

Candidate Starts for Schmidt_51:

(Start: 122 @34772 has 6 MA's), (125, 34784), (154, 34901), (161, 34928), (163, 34934), (194, 35030), (209, 35072), (219, 35096),

Gene: Schnauzer_50 Start: 34536, Stop: 34928, Start Num: 107

Candidate Starts for Schnauzer_50:

(Start: 107 @34536 has 67 MA's), (213, 34857),

Gene: ScoobyDoobyDoo_198 Start: 114464, Stop: 114832, Start Num: 118

Candidate Starts for ScoobyDoobyDoo_198:

(34, 114260), (57, 114353), (70, 114377), (Start: 92 @114428 has 4 MA's), (Start: 118 @114464 has 15 MA's), (147, 114575), (163, 114635), (169, 114659), (190, 114716), (192, 114725), (194, 114731), (213, 114779), (215, 114785),

Gene: ShakeltOph_42 Start: 26737, Stop: 27180, Start Num: 121

Candidate Starts for ShakeltOph_42:

(Start: 121 @26737 has 73 MA's), (147, 26836), (208, 27040), (221, 27070),

Gene: ShamWow_86 Start: 52698, Stop: 53060, Start Num: 118

Candidate Starts for ShamWow_86:

(Start: 100 @52677 has 3 MA's), (Start: 118 @52698 has 15 MA's), (181, 52911), (204, 52995), (210, 53007), (213, 53013), (226, 53049),

Gene: Shambre1_63 Start: 40417, Stop: 40782, Start Num: 114

Candidate Starts for Shambre1_63:

(Start: 114 @40417 has 1 MA's), (171, 40609), (213, 40729),

Gene: Sharkboy_36 Start: 26309, Stop: 26641, Start Num: 126

Candidate Starts for Sharkboy_36:

(Start: 126 @26309 has 61 MA's), (157, 26420), (161, 26432), (163, 26438), (181, 26486), (195, 26543), (208, 26585),

Gene: Shayna_37 Start: 24987, Stop: 25346, Start Num: 124

Candidate Starts for Shayna_37:

(124, 24987), (140, 25041), (161, 25116), (200, 25248), (205, 25263), (208, 25269),

Gene: ShereKhan_84 Start: 52810, Stop: 53172, Start Num: 113

Candidate Starts for ShereKhan_84:

(93, 52783), (Start: 113 @52810 has 112 MA's), (181, 53023), (204, 53107), (210, 53119), (213, 53125), (226, 53161),

Gene: ShrimpFriedEgg_54 Start: 35783, Stop: 36175, Start Num: 107

Candidate Starts for ShrimpFriedEgg_54:

(46, 35660), (55, 35681), (70, 35708), (Start: 107 @35783 has 67 MA's), (213, 36104),

Gene: Silvafighter_50 Start: 34509, Stop: 34901, Start Num: 107

Candidate Starts for Silvafighter_50:

(Start: 107 @34509 has 67 MA's), (213, 34830),

Gene: Simpliphy_85 Start: 51818, Stop: 52180, Start Num: 113

Candidate Starts for Simpliphy_85:

(93, 51791), (Start: 113 @51818 has 112 MA's), (181, 52031), (204, 52115), (210, 52127), (213, 52133), (226, 52169),

Gene: Simpson_37 Start: 25218, Stop: 25661, Start Num: 121

Candidate Starts for Simpson_37:

(Start: 121 @25218 has 73 MA's), (147, 25317), (192, 25470), (208, 25521),

Gene: SirDuracell_86 Start: 51469, Stop: 51831, Start Num: 113

Candidate Starts for SirDuracell_86:

(91, 51442), (Start: 113 @51469 has 112 MA's), (181, 51682), (183, 51697), (204, 51766), (210, 51778), (213, 51784), (226, 51820),

Gene: Skinny_74 Start: 47579, Stop: 48007, Start Num: 97

Candidate Starts for Skinny_74:

(Start: 97 @47579 has 6 MA's), (Start: 105 @47588 has 14 MA's), (139, 47666), (161, 47753), (170, 47783), (186, 47825), (204, 47885), (234, 47960),

Gene: Skylord_34 Start: 23633, Stop: 23974, Start Num: 126

Candidate Starts for Skylord_34:
(Start: 126 @23633 has 61 MA's), (152, 23726), (208, 23906),

Gene: Slay_38 Start: 26179, Stop: 26505, Start Num: 126
Candidate Starts for Slay_38:
(Start: 126 @26179 has 61 MA's), (200, 26431), (205, 26446),

Gene: SlimJimmy_71 Start: 47135, Stop: 47563, Start Num: 97
Candidate Starts for SlimJimmy_71:
(Start: 97 @47135 has 6 MA's), (Start: 105 @47144 has 14 MA's), (139, 47222), (161, 47309), (170, 47339), (186, 47381), (204, 47441), (234, 47516),

Gene: Smurph_49 Start: 34536, Stop: 34928, Start Num: 107
Candidate Starts for Smurph_49:
(Start: 107 @34536 has 67 MA's), (213, 34857),

Gene: Snek_35 Start: 24475, Stop: 24915, Start Num: 121
Candidate Starts for Snek_35:
(39, 24304), (43, 24328), (52, 24358), (72, 24400), (Start: 121 @24475 has 73 MA's), (Start: 133 @24520 has 1 MA's), (192, 24727), (208, 24778), (231, 24835),

Gene: Snekmaggedon_48 Start: 34075, Stop: 34467, Start Num: 107
Candidate Starts for Snekmaggedon_48:
(46, 33952), (55, 33973), (70, 34000), (Start: 107 @34075 has 67 MA's), (213, 34396),

Gene: Snorlax_36 Start: 27425, Stop: 27787, Start Num: 111
Candidate Starts for Snorlax_36:
(37, 27248), (Start: 75 @27362 has 1 MA's), (78, 27371), (99, 27410), (Start: 111 @27425 has 56 MA's), (177, 27632), (190, 27686), (192, 27695), (195, 27704), (210, 27740),

Gene: Solid_32 Start: 21901, Stop: 21542, Start Num: 105
Candidate Starts for Solid_32:
(87, 21931), (Start: 105 @21901 has 14 MA's), (Start: 107 @21898 has 67 MA's), (Start: 133 @21841 has 1 MA's), (175, 21697), (194, 21619), (195, 21616), (210, 21580),

Gene: Soondubu_33 Start: 27354, Stop: 27797, Start Num: 121
Candidate Starts for Soondubu_33:
(17, 26925), (42, 27192), (59, 27246), (Start: 121 @27354 has 73 MA's), (195, 27615), (208, 27657), (211, 27663), (218, 27681), (223, 27693),

Gene: Sooty_37 Start: 24081, Stop: 24515, Start Num: 121
Candidate Starts for Sooty_37:
(63, 23985), (73, 24009), (Start: 121 @24081 has 73 MA's), (Start: 144 @24168 has 1 MA's), (207, 24381),

Gene: SophKB_83 Start: 51496, Stop: 51858, Start Num: 113
Candidate Starts for SophKB_83:
(93, 51469), (Start: 113 @51496 has 112 MA's), (181, 51709), (204, 51793), (210, 51805), (213, 51811), (226, 51847),

Gene: Sotrice96_87 Start: 52362, Stop: 52724, Start Num: 113
Candidate Starts for Sotrice96_87:

(90, 52329), (Start: 113 @52362 has 112 MA's), (181, 52575), (183, 52590), (204, 52659), (210, 52671), (213, 52677), (226, 52713),

Gene: South40_36 Start: 27596, Stop: 27958, Start Num: 111

Candidate Starts for South40_36:

(37, 27413), (Start: 75 @27530 has 1 MA's), (78, 27539), (Start: 111 @27596 has 56 MA's), (177, 27803), (190, 27857), (192, 27866), (195, 27875), (210, 27911),

Gene: SpecialK_42 Start: 24066, Stop: 24500, Start Num: 121

Candidate Starts for SpecialK_42:

(Start: 121 @24066 has 73 MA's), (207, 24366),

Gene: SpeedDemon_740 Start: 54721, Stop: 54356, Start Num: 120

Candidate Starts for SpeedDemon_740:

(99, 54751), (Start: 120 @54721 has 9 MA's), (212, 54424), (238, 54376),

Gene: Speedwell_42 Start: 30345, Stop: 30707, Start Num: 110

Candidate Starts for Speedwell_42:

(Start: 110 @30345 has 11 MA's), (168, 30528), (177, 30555), (184, 30594), (193, 30621), (195, 30627),

Gene: SpongeBob_48 Start: 34075, Stop: 34467, Start Num: 107

Candidate Starts for SpongeBob_48:

(46, 33952), (55, 33973), (70, 34000), (Start: 107 @34075 has 67 MA's), (213, 34396),

Gene: SqueakyClean_36 Start: 28181, Stop: 28558, Start Num: 109

Candidate Starts for SqueakyClean_36:

(Start: 101 @28169 has 2 MA's), (Start: 103 @28172 has 20 MA's), (Start: 109 @28181 has 32 MA's), (162, 28355), (174, 28391), (193, 28472), (210, 28514),

Gene: Stank_89 Start: 52757, Stop: 53119, Start Num: 113

Candidate Starts for Stank_89:

(93, 52730), (Start: 113 @52757 has 112 MA's), (181, 52970), (204, 53054), (210, 53066), (213, 53072), (226, 53108),

Gene: Stark_87 Start: 52298, Stop: 52660, Start Num: 113

Candidate Starts for Stark_87:

(93, 52271), (Start: 113 @52298 has 112 MA's), (181, 52511), (204, 52595), (210, 52607), (213, 52613), (226, 52649),

Gene: StellaBean_84 Start: 52022, Stop: 52384, Start Num: 118

Candidate Starts for StellaBean_84:

(Start: 100 @52001 has 3 MA's), (Start: 118 @52022 has 15 MA's), (181, 52235), (204, 52319), (210, 52331), (213, 52337), (226, 52373),

Gene: StolenFromERC_89 Start: 52402, Stop: 52764, Start Num: 113

Candidate Starts for StolenFromERC_89:

(90, 52369), (Start: 113 @52402 has 112 MA's), (181, 52615), (204, 52699), (210, 52711), (213, 52717), (226, 52753),

Gene: Stoor_38 Start: 26983, Stop: 27309, Start Num: 126

Candidate Starts for Stoor_38:

(9, 26470), (11, 26488), (15, 26524), (21, 26593), (Start: 126 @26983 has 61 MA's), (161, 27103), (163, 27109), (179, 27151), (195, 27214), (200, 27235), (205, 27250), (208, 27256),

Gene: Stormborn_32 Start: 21505, Stop: 21149, Start Num: 107

Candidate Starts for Stormborn_32:

(87, 21538), (Start: 107 @21505 has 67 MA's), (175, 21304), (194, 21226), (195, 21223), (210, 21187),

Gene: Stromboli_38 Start: 26847, Stop: 27173, Start Num: 126

Candidate Starts for Stromboli_38:

(1, 26094), (9, 26334), (11, 26352), (15, 26388), (21, 26457), (Start: 126 @26847 has 61 MA's), (161, 26967), (163, 26973), (195, 27078), (200, 27099), (205, 27114), (208, 27120),

Gene: SuMoo_46 Start: 28468, Stop: 28815, Start Num: 121

Candidate Starts for SuMoo_46:

(71, 28372), (116, 28456), (Start: 121 @28468 has 73 MA's), (188, 28690), (195, 28717), (208, 28759),

Gene: Sue2_36 Start: 26239, Stop: 26682, Start Num: 121

Candidate Starts for Sue2_36:

(Start: 121 @26239 has 73 MA's), (162, 26392), (200, 26521), (208, 26542), (211, 26548),

Gene: Sujidade_37 Start: 28154, Stop: 28516, Start Num: 111

Candidate Starts for Sujidade_37:

(37, 27974), (Start: 75 @28091 has 1 MA's), (Start: 111 @28154 has 56 MA's), (177, 28361), (190, 28415), (192, 28424), (193, 28427), (195, 28433), (210, 28469),

Gene: SunnyD_39 Start: 25043, Stop: 25348, Start Num: 140

Candidate Starts for SunnyD_39:

(124, 24989), (140, 25043), (161, 25118), (181, 25172), (200, 25250), (205, 25265), (208, 25271),

Gene: SunsetPointe_36 Start: 27044, Stop: 27406, Start Num: 111

Candidate Starts for SunsetPointe_36:

(37, 26864), (Start: 75 @26981 has 1 MA's), (78, 26990), (Start: 111 @27044 has 56 MA's), (162, 27200), (177, 27251), (190, 27305), (192, 27314), (210, 27359),

Gene: Supernova_32 Start: 21669, Stop: 21313, Start Num: 107

Candidate Starts for Supernova_32:

(87, 21702), (Start: 107 @21669 has 67 MA's), (162, 21510), (175, 21468), (194, 21390), (195, 21387), (210, 21351),

Gene: Superstar_40 Start: 29217, Stop: 29594, Start Num: 109

Candidate Starts for Superstar_40:

(Start: 101 @29205 has 2 MA's), (Start: 103 @29208 has 20 MA's), (Start: 109 @29217 has 32 MA's), (152, 29358), (162, 29391), (193, 29508), (210, 29550),

Gene: Swervy_38 Start: 25698, Stop: 26024, Start Num: 126

Candidate Starts for Swervy_38:

(Start: 126 @25698 has 61 MA's), (200, 25950), (205, 25965),

Gene: TBrady12_89 Start: 52238, Stop: 52600, Start Num: 113

Candidate Starts for TBrady12_89:

(93, 52211), (Start: 113 @52238 has 112 MA's), (181, 52451), (204, 52535), (210, 52547), (213, 52553), (226, 52589),

Gene: TagePighter_38 Start: 27425, Stop: 27787, Start Num: 111

Candidate Starts for TagePighter_38:

(37, 27248), (Start: 75 @27362 has 1 MA's), (78, 27371), (99, 27410), (Start: 111 @27425 has 56 MA's), (177, 27632), (190, 27686), (192, 27695), (195, 27704), (210, 27740),

Gene: Tallboi_36 Start: 27029, Stop: 27379, Start Num: 121

Candidate Starts for Tallboi_36:

(51, 26903), (Start: 121 @27029 has 73 MA's), (Start: 133 @27074 has 1 MA's), (195, 27275), (208, 27317),

Gene: Tapioca_51 Start: 34502, Stop: 34894, Start Num: 107

Candidate Starts for Tapioca_51:

(Start: 107 @34502 has 67 MA's), (213, 34823),

Gene: Tarkin_85 Start: 52486, Stop: 52848, Start Num: 113

Candidate Starts for Tarkin_85:

(93, 52459), (Start: 113 @52486 has 112 MA's), (181, 52699), (204, 52783), (210, 52795), (213, 52801), (226, 52837),

Gene: Tarzan_57 Start: 37228, Stop: 37659, Start Num: 103

Candidate Starts for Tarzan_57:

(Start: 103 @37228 has 20 MA's), (213, 37543), (232, 37594), (246, 37651),

Gene: Tbone_34 Start: 25013, Stop: 25456, Start Num: 121

Candidate Starts for Tbone_34:

(31, 24791), (Start: 121 @25013 has 73 MA's), (147, 25112), (192, 25265), (208, 25316),

Gene: Teagster_40 Start: 25820, Stop: 26179, Start Num: 124

Candidate Starts for Teagster_40:

(124, 25820), (140, 25874), (161, 25949), (200, 26081), (205, 26096), (208, 26102),

Gene: TeardropMSU_82 Start: 51486, Stop: 51848, Start Num: 113

Candidate Starts for TeardropMSU_82:

(93, 51459), (Start: 113 @51486 has 112 MA's), (181, 51699), (204, 51783), (210, 51795), (213, 51801), (226, 51837),

Gene: Teaspoon_87 Start: 52341, Stop: 52703, Start Num: 118

Candidate Starts for Teaspoon_87:

(Start: 100 @52320 has 3 MA's), (Start: 118 @52341 has 15 MA's), (181, 52554), (204, 52638), (210, 52650), (213, 52656), (226, 52692),

Gene: Tefunt_38 Start: 28104, Stop: 28481, Start Num: 109

Candidate Starts for Tefunt_38:

(Start: 103 @28095 has 20 MA's), (Start: 109 @28104 has 32 MA's), (162, 28278), (174, 28314), (194, 28398), (210, 28437),

Gene: Terminus_89 Start: 53273, Stop: 53635, Start Num: 113

Candidate Starts for Terminus_89:

(93, 53246), (Start: 113 @53273 has 112 MA's), (181, 53486), (204, 53570), (210, 53582), (213, 53588), (226, 53624),

Gene: TforTroy_37 Start: 26052, Stop: 26408, Start Num: 121
Candidate Starts for TforTroy_37:
(54, 25932), (Start: 121 @26052 has 73 MA's), (208, 26340),

Gene: Thestral_38 Start: 28297, Stop: 28674, Start Num: 109
Candidate Starts for Thestral_38:
(Start: 103 @28288 has 20 MA's), (Start: 109 @28297 has 32 MA's), (162, 28471), (174, 28507), (210, 28630),

Gene: Thresher_88 Start: 53357, Stop: 53719, Start Num: 113
Candidate Starts for Thresher_88:
(93, 53330), (Start: 113 @53357 has 112 MA's), (181, 53570), (204, 53654), (210, 53666), (213, 53672), (226, 53708),

Gene: Tian_35 Start: 26817, Stop: 27164, Start Num: 121
Candidate Starts for Tian_35:
(Start: 121 @26817 has 73 MA's), (147, 26901), (195, 27063), (208, 27105),

Gene: TinaBelcher_37 Start: 28244, Stop: 28621, Start Num: 109
Candidate Starts for TinaBelcher_37:
(Start: 103 @28235 has 20 MA's), (Start: 109 @28244 has 32 MA's), (162, 28418), (174, 28454), (210, 28577),

Gene: TinaLin_56 Start: 36975, Stop: 37346, Start Num: 123
Candidate Starts for TinaLin_56:
(Start: 122 @36972 has 6 MA's), (Start: 123 @36975 has 1 MA's), (125, 36984), (154, 37101), (194, 37230), (219, 37296),

Gene: TinyDot_60 Start: 38014, Stop: 38394, Start Num: 122
Candidate Starts for TinyDot_60:
(19, 37603), (30, 37699), (Start: 122 @38014 has 6 MA's), (125, 38026), (137, 38077), (148, 38119), (222, 38338), (223, 38341), (238, 38374),

Gene: Toma_36 Start: 27871, Stop: 28233, Start Num: 111
Candidate Starts for Toma_36:
(37, 27691), (Start: 75 @27808 has 1 MA's), (78, 27817), (Start: 111 @27871 has 56 MA's), (177, 28078), (190, 28132), (192, 28141), (193, 28144), (195, 28150), (210, 28186),

Gene: Tomaszewski_81 Start: 51649, Stop: 52011, Start Num: 113
Candidate Starts for Tomaszewski_81:
(93, 51622), (Start: 113 @51649 has 112 MA's), (181, 51862), (204, 51946), (210, 51958), (213, 51964), (226, 52000),

Gene: Toto_84 Start: 52677, Stop: 53060, Start Num: 100
Candidate Starts for Toto_84:
(Start: 100 @52677 has 3 MA's), (Start: 118 @52698 has 15 MA's), (181, 52911), (204, 52995), (210, 53007), (213, 53013), (226, 53049),

Gene: Traaww1_82 Start: 51784, Stop: 52146, Start Num: 113
Candidate Starts for Traaww1_82:
(90, 51751), (Start: 113 @51784 has 112 MA's), (181, 51997), (183, 52012), (204, 52081), (210, 52093), (213, 52099), (226, 52135),

Gene: Trine_64 Start: 42629, Stop: 43021, Start Num: 122

Candidate Starts for Trine_64:

(25, 42272), (28, 42302), (31, 42380), (Start: 122 @42629 has 6 MA's), (164, 42797), (169, 42815), (190, 42872), (210, 42929), (212, 42932), (213, 42935), (223, 42962),

Gene: TripleJ_65 Start: 39433, Stop: 39810, Start Num: 103

Candidate Starts for TripleJ_65:

(Start: 103 @39433 has 20 MA's), (132, 39487), (140, 39511), (146, 39535), (162, 39598), (163, 39601), (194, 39697), (210, 39739), (222, 39769), (223, 39772), (234, 39802),

Gene: Triste_36 Start: 27413, Stop: 27775, Start Num: 111

Candidate Starts for Triste_36:

(37, 27236), (Start: 75 @27350 has 1 MA's), (78, 27359), (99, 27398), (Start: 111 @27413 has 56 MA's), (177, 27620), (190, 27674), (192, 27683), (195, 27692), (210, 27728),

Gene: Triumph_38 Start: 27999, Stop: 28376, Start Num: 109

Candidate Starts for Triumph_38:

(55, 27894), (Start: 75 @27936 has 1 MA's), (Start: 101 @27987 has 2 MA's), (Start: 103 @27990 has 20 MA's), (Start: 109 @27999 has 32 MA's), (162, 28173), (193, 28290), (210, 28332),

Gene: TrvxScott_36 Start: 28281, Stop: 28667, Start Num: 103

Candidate Starts for TrvxScott_36:

(Start: 103 @28281 has 20 MA's), (Start: 109 @28290 has 32 MA's), (162, 28464), (174, 28500), (210, 28623),

Gene: TuanPN_35 Start: 27357, Stop: 27719, Start Num: 111

Candidate Starts for TuanPN_35:

(37, 27177), (Start: 75 @27294 has 1 MA's), (Start: 111 @27357 has 56 MA's), (177, 27564), (190, 27618), (192, 27627), (195, 27636), (210, 27672),

Gene: Tuck_39 Start: 27855, Stop: 28298, Start Num: 121

Candidate Starts for Tuck_39:

(Start: 121 @27855 has 73 MA's), (192, 28107), (195, 28116), (208, 28158), (220, 28185), (233, 28221),

Gene: Tuco_87 Start: 53245, Stop: 53607, Start Num: 113

Candidate Starts for Tuco_87:

(93, 53218), (Start: 113 @53245 has 112 MA's), (181, 53458), (204, 53542), (210, 53554), (213, 53560), (226, 53596),

Gene: TukTuk_38 Start: 25769, Stop: 26095, Start Num: 126

Candidate Starts for TukTuk_38:

(Start: 126 @25769 has 61 MA's), (157, 25877), (195, 26000), (205, 26036), (208, 26042),

Gene: Turab_34 Start: 25291, Stop: 25641, Start Num: 121

Candidate Starts for Turab_34:

(39, 25111), (52, 25165), (Start: 121 @25291 has 73 MA's), (Start: 133 @25336 has 1 MA's), (147, 25375), (195, 25537), (208, 25579),

Gene: Tutumahutu_35 Start: 25185, Stop: 25628, Start Num: 121

Candidate Starts for Tutumahutu_35:

(Start: 121 @25185 has 73 MA's), (147, 25284), (192, 25437), (208, 25488),

Gene: Tweety19_35 Start: 24474, Stop: 24914, Start Num: 121

Candidate Starts for Tweety19_35:

(39, 24303), (43, 24327), (52, 24357), (72, 24399), (Start: 121 @24474 has 73 MA's), (Start: 133 @24519 has 1 MA's), (192, 24726), (208, 24777), (231, 24834),

Gene: TyDawg_71 Start: 46671, Stop: 47099, Start Num: 97

Candidate Starts for TyDawg_71:

(Start: 97 @46671 has 6 MA's), (Start: 105 @46680 has 14 MA's), (139, 46758), (161, 46845), (170, 46875), (186, 46917), (204, 46977), (234, 47052),

Gene: Ukulele_81 Start: 51631, Stop: 51993, Start Num: 113

Candidate Starts for Ukulele_81:

(93, 51604), (Start: 113 @51631 has 112 MA's), (181, 51844), (204, 51928), (210, 51940), (213, 51946), (226, 51982),

Gene: Unstoppable_36 Start: 27048, Stop: 27410, Start Num: 111

Candidate Starts for Unstoppable_36:

(37, 26868), (Start: 75 @26985 has 1 MA's), (78, 26994), (Start: 111 @27048 has 56 MA's), (162, 27204), (177, 27255), (190, 27309), (192, 27318), (210, 27363),

Gene: Upyo_68 Start: 44581, Stop: 44982, Start Num: 121

Candidate Starts for Upyo_68:

(49, 44440), (Start: 121 @44581 has 73 MA's), (166, 44758), (180, 44794), (181, 44797), (210, 44881), (213, 44887), (223, 44914), (226, 44923), (240, 44959), (243, 44968),

Gene: Urza_38 Start: 27858, Stop: 28232, Start Num: 109

Candidate Starts for Urza_38:

(Start: 103 @27849 has 20 MA's), (Start: 109 @27858 has 32 MA's), (Start: 133 @27912 has 1 MA's), (162, 28026), (177, 28077), (193, 28143), (195, 28149), (210, 28185), (222, 28215),

Gene: UtzChips_43 Start: 27442, Stop: 27804, Start Num: 121

Candidate Starts for UtzChips_43:

(76, 27361), (Start: 121 @27442 has 73 MA's), (185, 27658), (208, 27733),

Gene: VResidence_36 Start: 25348, Stop: 25791, Start Num: 121

Candidate Starts for VResidence_36:

(Start: 121 @25348 has 73 MA's), (192, 25600), (195, 25609), (208, 25651), (211, 25657), (221, 25681), (247, 25768),

Gene: Vanseggelen_42 Start: 28601, Stop: 28966, Start Num: 110

Candidate Starts for Vanseggelen_42:

(Start: 110 @28601 has 11 MA's), (168, 28784), (177, 28811), (193, 28877),

Gene: Verabelle_40 Start: 28933, Stop: 29355, Start Num: 77

Candidate Starts for Verabelle_40:

(68, 28906), (77, 28933), (Start: 110 @28993 has 11 MA's), (132, 29044), (168, 29176), (175, 29194), (177, 29203), (193, 29269), (195, 29275),

Gene: Verse_37 Start: 29752, Stop: 30117, Start Num: 110

Candidate Starts for Verse_37:

(Start: 110 @29752 has 11 MA's), (168, 29935), (177, 29962), (193, 30028),

Gene: VieEnRose_37 Start: 27779, Stop: 28156, Start Num: 109
Candidate Starts for VieEnRose_37:
(Start: 103 @27770 has 20 MA's), (Start: 109 @27779 has 32 MA's), (Start: 133 @27836 has 1 MA's),
(162, 27950), (177, 28001), (193, 28067), (195, 28073), (210, 28109),

Gene: Vitas_34 Start: 23642, Stop: 23983, Start Num: 126
Candidate Starts for Vitas_34:
(Start: 126 @23642 has 61 MA's), (152, 23735), (208, 23915),

Gene: VroomVroom_40 Start: 26879, Stop: 27325, Start Num: 121
Candidate Starts for VroomVroom_40:
(58, 26771), (116, 26867), (Start: 121 @26879 has 73 MA's), (147, 26978), (208, 27182), (245,
27275),

Gene: WalkingDead_39 Start: 27238, Stop: 27564, Start Num: 126
Candidate Starts for WalkingDead_39:
(Start: 126 @27238 has 61 MA's), (163, 27364), (179, 27406), (192, 27460), (195, 27469), (200,
27490), (205, 27505), (208, 27511),

Gene: Warda_35 Start: 25189, Stop: 25632, Start Num: 121
Candidate Starts for Warda_35:
(31, 24967), (Start: 121 @25189 has 73 MA's), (147, 25288), (192, 25441), (208, 25492),

Gene: Werner_36 Start: 27423, Stop: 27785, Start Num: 111
Candidate Starts for Werner_36:
(37, 27246), (Start: 75 @27360 has 1 MA's), (78, 27369), (99, 27408), (Start: 111 @27423 has 56
MA's), (177, 27630), (190, 27684), (192, 27693), (195, 27702), (210, 27738),

Gene: Whatever_36 Start: 27423, Stop: 27785, Start Num: 111
Candidate Starts for Whatever_36:
(37, 27246), (Start: 75 @27360 has 1 MA's), (78, 27369), (99, 27408), (Start: 111 @27423 has 56
MA's), (177, 27630), (190, 27684), (192, 27693), (195, 27702), (210, 27738),

Gene: Widow_60 Start: 41819, Stop: 42229, Start Num: 121
Candidate Starts for Widow_60:
(Start: 121 @41819 has 73 MA's), (160, 41972), (174, 42014), (178, 42023), (210, 42128), (213,
42134),

Gene: Wiggin_88 Start: 52185, Stop: 52547, Start Num: 113
Candidate Starts for Wiggin_88:
(90, 52152), (Start: 113 @52185 has 112 MA's), (181, 52398), (183, 52413), (204, 52482), (210,
52494), (213, 52500), (226, 52536),

Gene: Wildcat_85 Start: 52231, Stop: 52635, Start Num: 108
Candidate Starts for Wildcat_85:
(69, 52150), (Start: 108 @52231 has 5 MA's), (142, 52318), (152, 52366), (159, 52390), (165, 52411),
(167, 52417), (179, 52426), (212, 52528), (216, 52540), (234, 52588), (237, 52594), (242, 52612),

Gene: Wildwest_35 Start: 25377, Stop: 25820, Start Num: 121
Candidate Starts for Wildwest_35:
(39, 25194), (43, 25218), (52, 25248), (Start: 121 @25377 has 73 MA's), (192, 25629), (195, 25638),
(208, 25680), (211, 25686), (233, 25743), (248, 25800),

Gene: Willez_81 Start: 50518, Stop: 50880, Start Num: 113
Candidate Starts for Willez_81:
(93, 50491), (Start: 113 @50518 has 112 MA's), (181, 50731), (204, 50815), (210, 50827), (213, 50833),

Gene: Wizzo_32 Start: 21394, Stop: 21038, Start Num: 107
Candidate Starts for Wizzo_32:
(14, 21841), (22, 21748), (87, 21427), (Start: 107 @21394 has 67 MA's), (175, 21193), (194, 21115), (195, 21112), (210, 21076),

Gene: Xandras_85 Start: 51730, Stop: 52092, Start Num: 113
Candidate Starts for Xandras_85:
(93, 51703), (Start: 113 @51730 has 112 MA's), (181, 51943), (204, 52027), (210, 52039), (213, 52045), (226, 52081),

Gene: Xerxes_49 Start: 34533, Stop: 34925, Start Num: 107
Candidate Starts for Xerxes_49:
(Start: 107 @34533 has 67 MA's), (213, 34854),

Gene: Yang_36 Start: 25545, Stop: 25904, Start Num: 121
Candidate Starts for Yang_36:
(Start: 121 @25545 has 73 MA's), (162, 25683), (185, 25758), (208, 25833),

Gene: Yasdnil_36 Start: 27475, Stop: 27837, Start Num: 111
Candidate Starts for Yasdnil_36:
(37, 27295), (Start: 75 @27412 has 1 MA's), (Start: 111 @27475 has 56 MA's), (177, 27682), (190, 27736), (192, 27745), (195, 27754), (210, 27790),

Gene: YassJohnny_83 Start: 51649, Stop: 52011, Start Num: 118
Candidate Starts for YassJohnny_83:
(Start: 100 @51628 has 3 MA's), (Start: 118 @51649 has 15 MA's), (181, 51862), (204, 51946), (210, 51958), (213, 51964), (226, 52000),

Gene: YesChef_35 Start: 25162, Stop: 25605, Start Num: 121
Candidate Starts for YesChef_35:
(Start: 121 @25162 has 73 MA's), (192, 25414), (208, 25465),

Gene: Yosif_39 Start: 29550, Stop: 29933, Start Num: 111
Candidate Starts for Yosif_39:
(Start: 111 @29550 has 56 MA's), (152, 29682), (162, 29727), (210, 29886),

Gene: Youngblood_89 Start: 53200, Stop: 53562, Start Num: 113
Candidate Starts for Youngblood_89:
(93, 53173), (Start: 113 @53200 has 112 MA's), (181, 53413), (204, 53497), (210, 53509), (213, 53515), (226, 53551),

Gene: Zainub_39 Start: 28633, Stop: 29010, Start Num: 109
Candidate Starts for Zainub_39:
(Start: 103 @28624 has 20 MA's), (Start: 109 @28633 has 32 MA's), (162, 28807), (174, 28843), (193, 28924), (210, 28966),

Gene: Zemlya_38 Start: 27972, Stop: 28334, Start Num: 111
Candidate Starts for Zemlya_38:

(37, 27792), (Start: 75 @27909 has 1 MA's), (78, 27918), (Start: 111 @27972 has 56 MA's), (177, 28179), (190, 28233), (192, 28242), (193, 28245), (195, 28251), (210, 28287),

Gene: phiCAM_36 Start: 30877, Stop: 31242, Start Num: 110

Candidate Starts for phiCAM_36:

(Start: 110 @30877 has 11 MA's), (132, 30928), (168, 31060), (175, 31078), (177, 31087), (193, 31153), (195, 31159), (210, 31195),

Gene: phiHau3_38 Start: 27506, Stop: 27880, Start Num: 113

Candidate Starts for phiHau3_38:

(26, 27191), (29, 27212), (36, 27317), (40, 27341), (81, 27458), (Start: 113 @27506 has 112 MA's), (132, 27569), (148, 27626), (162, 27677), (177, 27728), (190, 27782), (215, 27848),

Gene: phiSASD1_10 Start: 25051, Stop: 25515, Start Num: 92

Candidate Starts for phiSASD1_10:

(Start: 92 @25051 has 4 MA's), (173, 25246), (179, 25258), (192, 25306), (193, 25309), (202, 25351), (217, 25384),

Gene: xkcd_89 Start: 53387, Stop: 53749, Start Num: 113

Candidate Starts for xkcd_89:

(93, 53360), (Start: 113 @53387 has 112 MA's), (181, 53600), (204, 53684), (210, 53696), (213, 53702), (226, 53738),