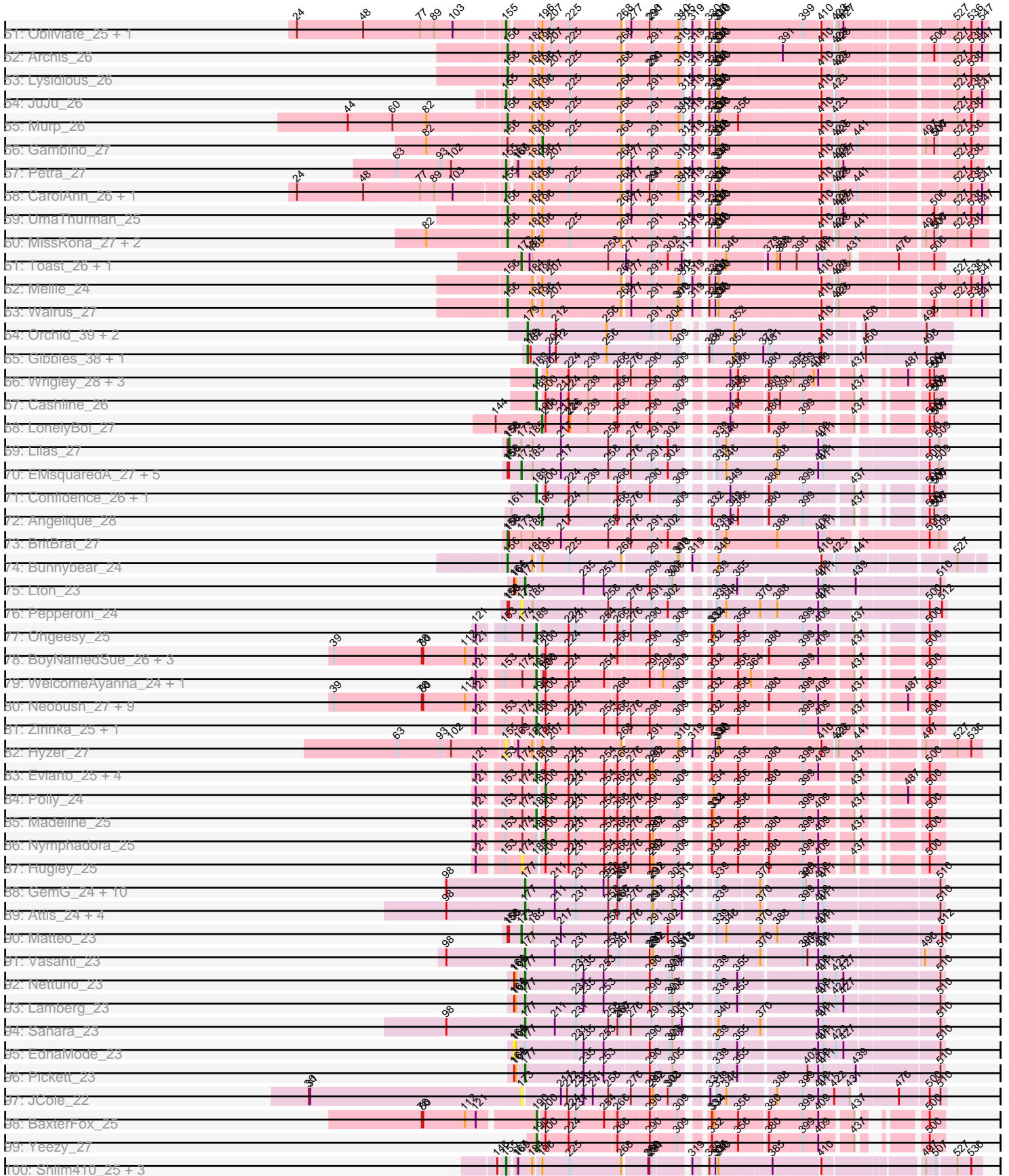
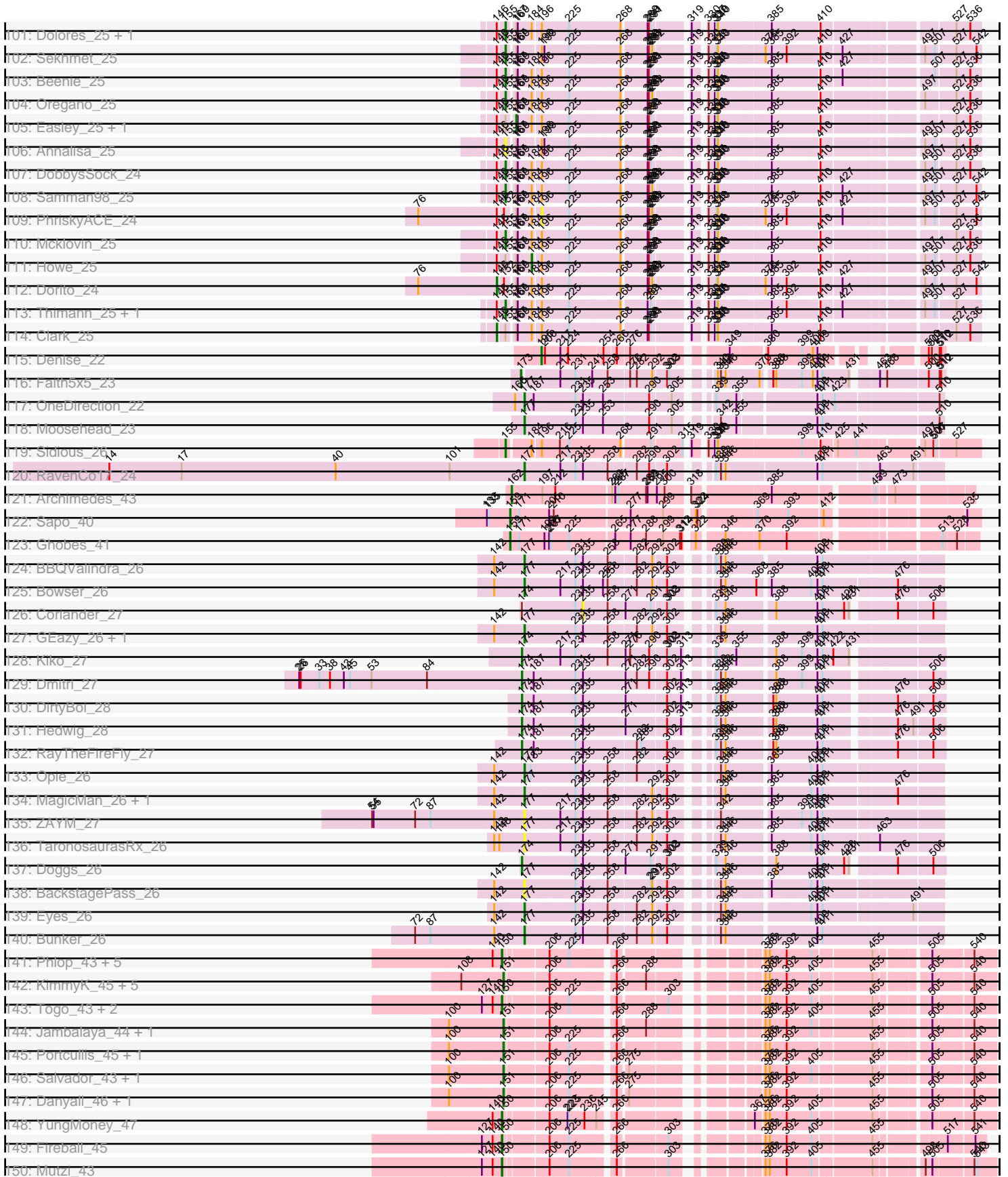


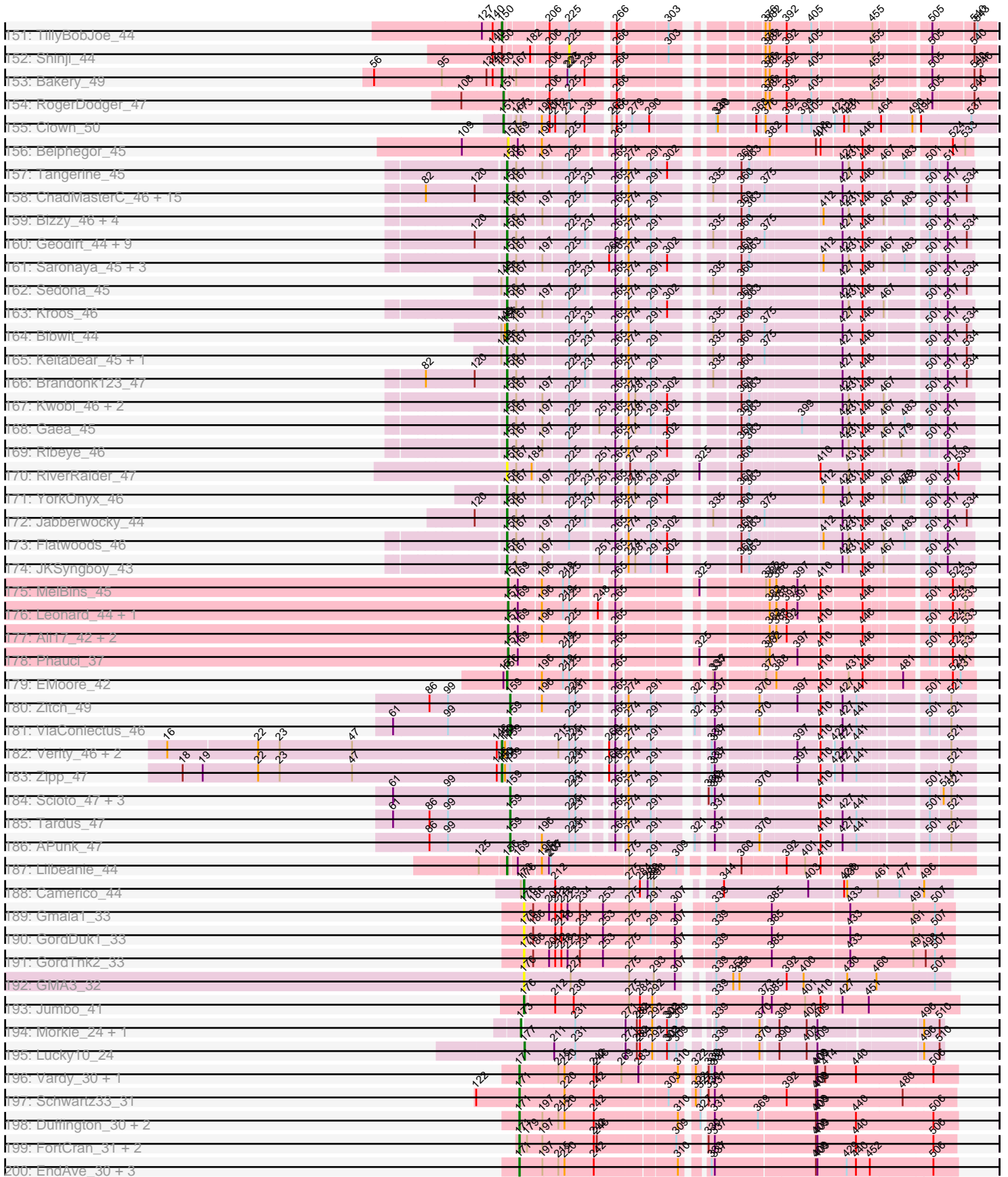
Zoomed Pham 162905



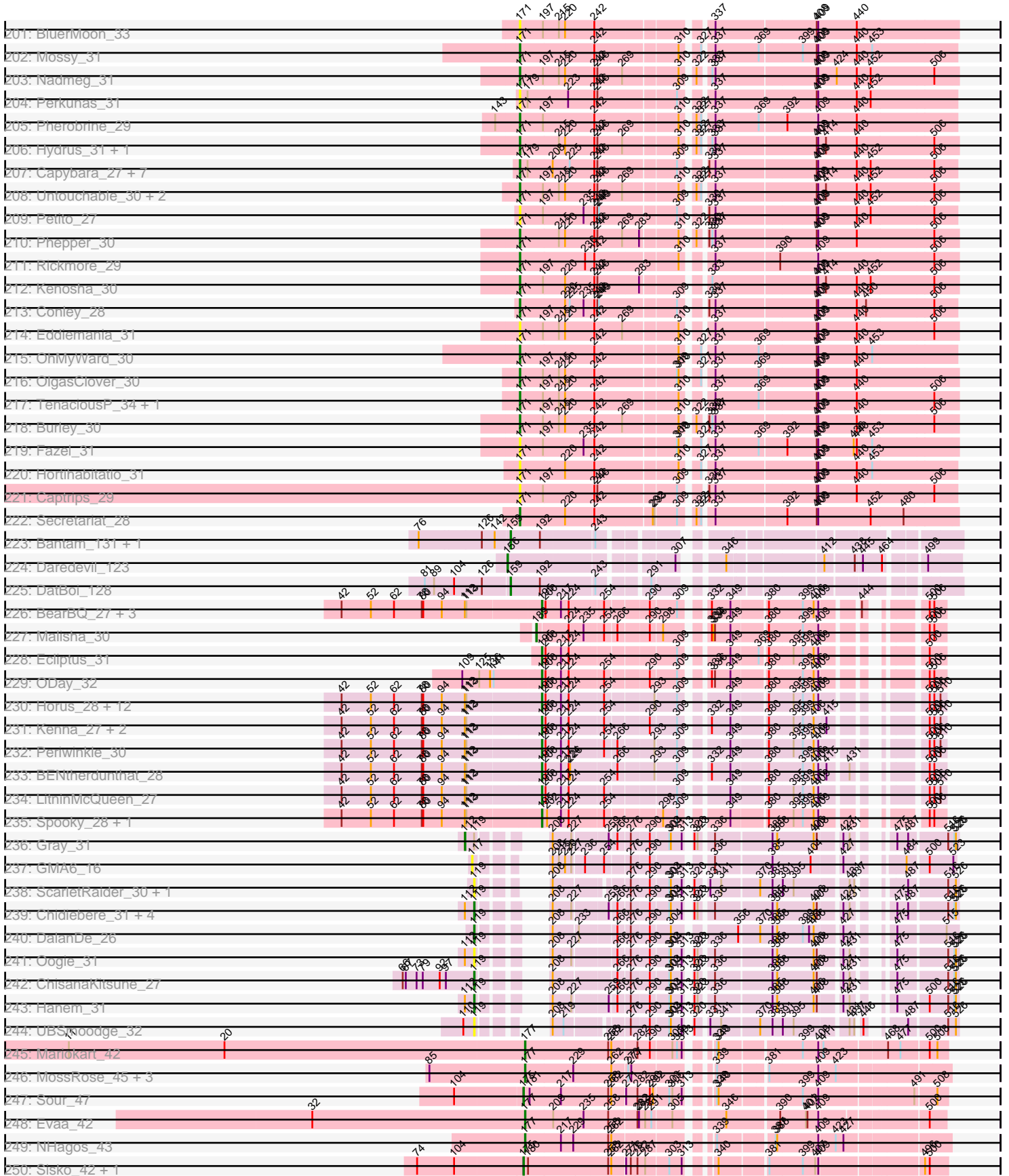
Zoomed Pham 162905



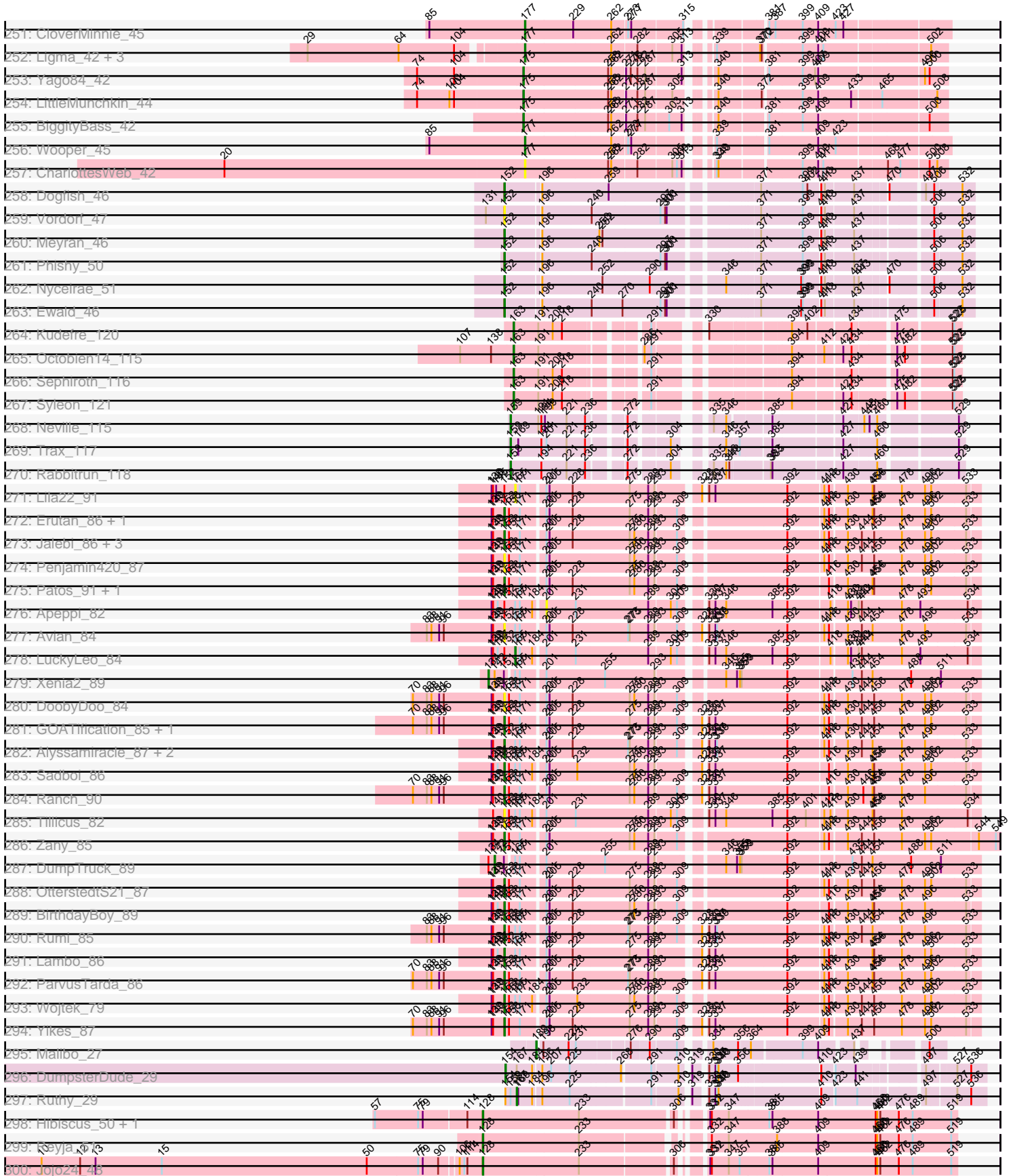
Zoomed Pham 162905



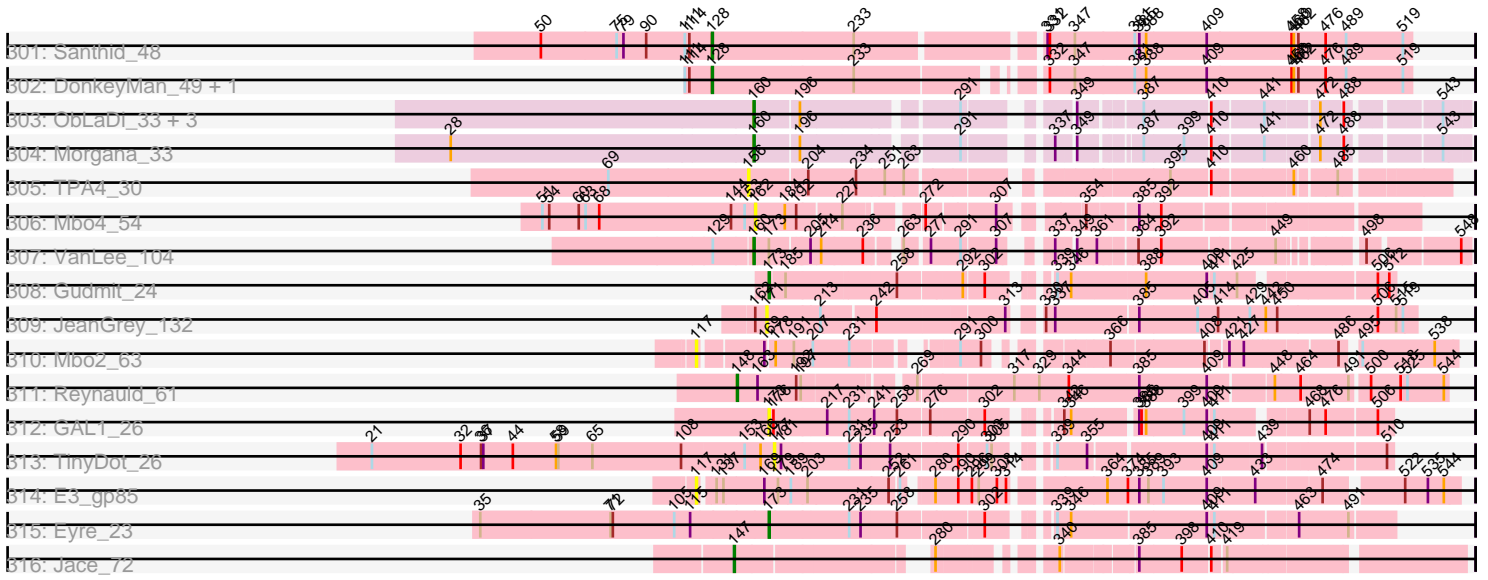
Zoomed Pham 162905



Zoomed Pham 162905



Zoomed Pham 162905



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 162905 Report

This analysis was run 04/28/24 on database version 559.

Pham number 162905 has 528 members, 89 are drafts.

Phages represented in each track:

- Track 1 : Peregrin_29
- Track 2 : Grayson_31
- Track 3 : Weasels2_31
- Track 4 : Poco6_034
- Track 5 : Pepy6_033
- Track 6 : Gustav_37
- Track 7 : Mahdia_35
- Track 8 : Dorin_10
- Track 9 : Francesca_10
- Track 10 : Polyuyuki_20, Braxoaddie_20, Apiary_20
- Track 11 : MacGully_23
- Track 12 : Maselop_20
- Track 13 : CoffeeBean_20
- Track 14 : GuyFagieri_19
- Track 15 : Dalilpop_23
- Track 16 : GTE5_9
- Track 17 : Flapper_22
- Track 18 : Turuncu_22
- Track 19 : GRU1_9
- Track 20 : SuperSulley_20, Buggaboo_20
- Track 21 : GTE8_7
- Track 22 : Emianna_19, NatB6_19, Foxboro_20, Kurt_19, Jifall16_18, Arti_19, KidneyBean_19, GrootJr_21, NovumRegina_19
- Track 23 : Phomeo_18
- Track 24 : Commandaria_20
- Track 25 : Wheezy_19, Tracker_19
- Track 26 : Outis_19, StarStruck_19
- Track 27 : NosilaM_21, Kabluna_21, Bonum_21
- Track 28 : MerCougar_19
- Track 29 : Lollipop1437_23, Ennea_24
- Track 30 : Patio_21
- Track 31 : Float294_20, Skysand_20
- Track 32 : WhoseManz_19
- Track 33 : NadineRae_17
- Track 34 : IDyn_18
- Track 35 : BiPauneto_20, Yndexa_19, Sukkupi_19
- Track 36 : Marietta_19

- Track 37 : HubbaBubba_16
- Track 38 : Fury_25
- Track 39 : Pleakley_25
- Track 40 : KappaFarmDelta_27
- Track 41 : William_26
- Track 42 : Pipp_25, Utz_25
- Track 43 : Jalammah_27
- Track 44 : JasperJr_25, Guacamole_25, MintFen_25, Malachai_26, CaptainKirk2_25, Begonia_26, Melba_25, Delian_25, Zarbodnamra_25, Wisp_24, PhrostedPhlake_27, BlingBling_25, Barco_25
- Track 45 : Samba_25, Hitter_25
- Track 46 : Fenry_24
- Track 47 : Wocket_27
- Track 48 : Frokostdame_25
- Track 49 : Fairfaxidum_25
- Track 50 : PrincePatrick_25
- Track 51 : Obliviate_25, ZiggyZoo_25
- Track 52 : Archis_26
- Track 53 : Lysidious_26
- Track 54 : JuJu_26
- Track 55 : Murp_26
- Track 56 : Gambino_27
- Track 57 : Petra_27
- Track 58 : CarolAnn_26, Blino_26
- Track 59 : UmaThurman_25
- Track 60 : MissRona_27, Azula_27, Blueberry_27
- Track 61 : Toast_26, PCoral7_26
- Track 62 : Mellie_24
- Track 63 : Walrus_27
- Track 64 : Orchid_39, Kampe_40, PatrickStar_40
- Track 65 : Gibbles_38, RobinSparkles_42
- Track 66 : Wrigley_28, Jablanski_28, Posh_28, Pytheas_28
- Track 67 : Cashline_26
- Track 68 : LonelyBoi_27
- Track 69 : Lilas_27
- Track 70 : EMSquaredA_27, Pollux_27, Bradissa_27, EnalisNailo_27, Marteena_27, Floral_27
- Track 71 : Confidence_26, BeeGee_26
- Track 72 : Angelique_28
- Track 73 : BritBrat_27
- Track 74 : Bunnybear_24
- Track 75 : Lton_23
- Track 76 : Pepperoni_24
- Track 77 : Ohgeesy_25
- Track 78 : BoyNamedSue_26, AlumE_26, PantheRoc_25, Agueybana_26
- Track 79 : WelcomeAyanna_24, ThankyouJordi_24
- Track 80 : Neobush_27, Manasvini_27, Kita_27, Suscepit_27, Zameen_27, Eudoria_27, Antonio_27, Trumpet_27, Maridalia_26, Tayonia_27
- Track 81 : Zirinka_25, Bialota_25
- Track 82 : Hyzer_27
- Track 83 : Eviarto_25, BatStarr_25, TimTam_25, Bosnia_25, Herod_25
- Track 84 : Polly_24
- Track 85 : Madeline_25

- Track 86 : Nymphadora_25
- Track 87 : Hugley_25
- Track 88 : GemG_24, Ebert_24, Gizermo_24, Cynthia_24, Whiteclaw_24, Savage_24, Sproutie_24, Mocha12_24, Clap_24, Haley23_24, TuertoX_24
- Track 89 : Attis_24, Yeet412_24, LordFarquaad_24, SoilAssassin_24, Bjanes7_24
- Track 90 : Matteo_23
- Track 91 : Vasanti_23
- Track 92 : Nettuno_23
- Track 93 : Lamberg_23
- Track 94 : Sahara_23
- Track 95 : EdnaMode_23
- Track 96 : Pickett_23
- Track 97 : JCole_22
- Track 98 : BaxterFox_25
- Track 99 : Yeezy_27
- Track 100 : Shlim410_25, Adora_25, Hortense_25, Twinkle_25
- Track 101 : Dolores_25, MichaelScott_25
- Track 102 : Sekhmet_25
- Track 103 : Beenie_25
- Track 104 : Oregano_25
- Track 105 : Easley_25, WinkNick_25
- Track 106 : Annalisa_25
- Track 107 : DobbysSock_24
- Track 108 : Samman98_25
- Track 109 : PhriskyACE_24
- Track 110 : Mcklovin_25
- Track 111 : Howe_25
- Track 112 : Dorito_24
- Track 113 : Thimann_25, Suerte_23
- Track 114 : Clark_25
- Track 115 : Denise_22
- Track 116 : Faith5x5_23
- Track 117 : OneDirection_22
- Track 118 : Moosehead_23
- Track 119 : Sidious_26
- Track 120 : RavenCo17_24
- Track 121 : Archimedes_43
- Track 122 : Sapo_40
- Track 123 : Ghobes_41
- Track 124 : BBQValindra_26
- Track 125 : Bowser_26
- Track 126 : Coriander_27
- Track 127 : GEazy_26, HannahD_26
- Track 128 : Kiko_27
- Track 129 : Dmitri_27
- Track 130 : DirtyBoi_28
- Track 131 : Hedwig_28
- Track 132 : RayTheFireFly_27
- Track 133 : Opie_26
- Track 134 : MagicMan_26, Schnabeltier_26
- Track 135 : ZAYM_27
- Track 136 : TaronosaurusRx_26
- Track 137 : Doggs_26

- Track 138 : BackstagePass_26
- Track 139 : Eyes_26
- Track 140 : Bunker_26
- Track 141 : Phlop_43, PullumCavea_43, Fugax_47, ClamChowder_46, Barb_46, PinkCoffee_46
- Track 142 : KimmyK_45, VanDeWege_47, Wizard_43, Valary_46, Arri_47, Gezellig_45
- Track 143 : Togo_43, Nubi_44, SmokingBunny_44
- Track 144 : Jambalaya_44, Savbucketdawg_44
- Track 145 : Portcullis_45, Halo3_44
- Track 146 : Salvador_43, Evamon_43
- Track 147 : Danyall_46, Twister6_46
- Track 148 : YungMoney_47
- Track 149 : Fireball_45
- Track 150 : Mutzi_43
- Track 151 : TillyBobJoe_44
- Track 152 : Shinji_44
- Track 153 : Bakery_49
- Track 154 : RogerDodger_47
- Track 155 : Clown_50
- Track 156 : Belphegor_45
- Track 157 : Tangerine_45
- Track 158 : ChadMasterC_46, Tangent_46, Paries_48, Vivi2_48, Sanjuju_44, MoontowerMania_45, Fitzgerald_44, McKinley_47, Charming_46, Barsten_46, BobBob_43, Rofo_46, Shivanishola_45, Galadriel_45, Love_49, Nordenberg_40
- Track 159 : Bizzy_46, Derg_43, SchottB_44, Baumdotcom_44, LilHam_43
- Track 160 : Geodirt_44, Fosterous_43, Angelicage_43, Affeca_43, Kewpiedoll_45, Lennon_45, Sitar_45, Thing3_43, Stultus_44, Kamashten_43
- Track 161 : Saronaya_45, Baddon_45, Ashertheman_46, Gustavo_45
- Track 162 : Sedona_45
- Track 163 : Kroos_46
- Track 164 : Bibwit_44
- Track 165 : Keitabear_45, Ailee_42
- Track 166 : Brandonk123_47
- Track 167 : Kwobi_46, StorminNorm_45, Tycho_45
- Track 168 : Gaea_45
- Track 169 : Ribeye_46
- Track 170 : RiverRaider_47
- Track 171 : YorkOnyx_46
- Track 172 : Jabberwocky_44
- Track 173 : Flatwoods_46
- Track 174 : JKSyngboy_43
- Track 175 : MelBins_45
- Track 176 : Leonard_44, Phinally_44
- Track 177 : Ali17_42, Hans_46, Inspectinfecti_45
- Track 178 : Phauci_37
- Track 179 : EMOore_42
- Track 180 : Zitch_49
- Track 181 : ViaConlectus_46
- Track 182 : Verity_46, Delrey21_46, DoctorFroggo_46
- Track 183 : Zipp_47
- Track 184 : Scioto_47, Sampson_46, Natkenzie_46, Abblin_46
- Track 185 : Tardus_47

- Track 186 : APunk_47
- Track 187 : Lilbeanie_44
- Track 188 : Camerico_44
- Track 189 : Gmala1_33
- Track 190 : GordDuk1_33
- Track 191 : GordTnk2_33
- Track 192 : GMA3_32
- Track 193 : Jumbo_41
- Track 194 : Morkie_24, PhorbesPhlower_24
- Track 195 : Lucky10_24
- Track 196 : Vardy_30, Runhaar_30
- Track 197 : Schwartz33_31
- Track 198 : Duffington_30, Figliar_30, Aflac_30
- Track 199 : FortCran_31, Artorias_27, Avazak_27
- Track 200 : EndAve_30, Nithya_30, AlainaMarie_30, Chikenjars_30
- Track 201 : BluerMoon_33
- Track 202 : Mossy_31
- Track 203 : Nadmeg_31
- Track 204 : Perkunas_31
- Track 205 : Pherobrine_29
- Track 206 : Hydrus_31, Zeph_32
- Track 207 : Capybara_27, Roney_27, Gill_27, Odesza_27, Gravy_27, Kerry_27, Tanis_27, Magel_27
- Track 208 : Untouchable_30, Madvan_31, Crocheter_30
- Track 209 : Petite_27
- Track 210 : Phepper_30
- Track 211 : Rickmore_29
- Track 212 : Kenosha_30
- Track 213 : Conley_28
- Track 214 : Eddiemania_31
- Track 215 : OhMyWard_30
- Track 216 : OlgasClover_30
- Track 217 : TenaciousP_34, Jodelie19_31
- Track 218 : Burley_30
- Track 219 : Fazel_31
- Track 220 : Hortihabitatio_31
- Track 221 : Captrips_29
- Track 222 : Secretariat_28
- Track 223 : Bantam_131, SpeedDemon_1340
- Track 224 : Daredevil_123
- Track 225 : DatBoi_128
- Track 226 : BearBQ_27, Kuwabara_27, MortyNRick_27, Birdsong_27
- Track 227 : Malisha_30
- Track 228 : Ecliptus_31
- Track 229 : ODay_32
- Track 230 : Horus_28, Kamaru_28, Getalong_29, Budski_28, CheeseTouch_28, Crater_26, Holliday_28, Leroy_28, Phistory_29, Phabuloso_27, Frickyeah_27, Apricot_27, Whitney_29
- Track 231 : Kenna_27, Lutum_28, Asapag_28
- Track 232 : Periwinkle_30
- Track 233 : BENtherdunthat_28
- Track 234 : LitninMcQueen_27
- Track 235 : Spooky_28, Squiddly_30

- Track 236 : Gray_31
- Track 237 : GMA6_16
- Track 238 : ScarletRaider_30, FlyingTortilla_30
- Track 239 : Chidiebere_31, Kabocha_32, Alok_30, Pakusa_30, Schomber_30
- Track 240 : DalanDe_26
- Track 241 : Oogie_31
- Track 242 : ChisanaKitsune_27
- Track 243 : Hanem_31
- Track 244 : UBSmoodge_32
- Track 245 : Mariokart_42
- Track 246 : MossRose_45, MakoManhole_45, CaiB_45, AnarQue_45
- Track 247 : Sour_47
- Track 248 : Evaa_42
- Track 249 : NHagos_43
- Track 250 : Sisko_42, AnClar_43
- Track 251 : CloverMinnie_45
- Track 252 : Ligma_42, Fresco_42, Axumite_42, Shatter_42
- Track 253 : Yago84_42
- Track 254 : LittleMunchkin_44
- Track 255 : BiggityBass_42
- Track 256 : Wooper_45
- Track 257 : CharlottesWeb_42
- Track 258 : Dogfish_46
- Track 259 : Vordorf_47
- Track 260 : Meyran_46
- Track 261 : Phishy_50
- Track 262 : Nyceirae_51
- Track 263 : Ewald_46
- Track 264 : Kudrefre_120
- Track 265 : Octobien14_115
- Track 266 : Sephiroth_116
- Track 267 : Syleon_121
- Track 268 : Neville_115
- Track 269 : Trax_117
- Track 270 : Rabbitrun_118
- Track 271 : Lila22_91
- Track 272 : Erutan_86, Gretellyn_86
- Track 273 : Jalebi_86, MoiGyank_91, Sampudon_88, Gibbin_88
- Track 274 : Penjamin420_87
- Track 275 : Patos_91, NorManre_91
- Track 276 : Apeppi_82
- Track 277 : Avian_84
- Track 278 : LuckyLeo_84
- Track 279 : Xenia2_89
- Track 280 : DoobyDoo_84
- Track 281 : GOATification_85, Fulcrum_85
- Track 282 : Alyssamiracle_87, Genamy16_87, NovaSharks_86
- Track 283 : Sadboi_86
- Track 284 : Ranch_90
- Track 285 : Tillicus_82
- Track 286 : Zany_85
- Track 287 : DumpTruck_89
- Track 288 : OtterstedtS21_87

- Track 289 : BirthdayBoy_89
- Track 290 : Rumi_85
- Track 291 : Lambo_86
- Track 292 : ParvusTarda_86
- Track 293 : Wojtek_79
- Track 294 : Yikes_87
- Track 295 : Malibo_27
- Track 296 : DumpsterDude_29
- Track 297 : Ruthy_29
- Track 298 : Hibiscus_50, Heinz_50
- Track 299 : Reyja_51
- Track 300 : Jojo24_48
- Track 301 : Santhid_48
- Track 302 : DonkeyMan_49, Tarzan_50
- Track 303 : ObLaDi_33, ModicumRichard_33, Aleemily_32, Cafasso_33
- Track 304 : Morgana_33
- Track 305 : TPA4_30
- Track 306 : Mbo4_54
- Track 307 : VanLee_104
- Track 308 : Gudmit_24
- Track 309 : JeanGrey_132
- Track 310 : Mbo2_63
- Track 311 : Reynauld_61
- Track 312 : GAL1_26
- Track 313 : TinyDot_26
- Track 314 : E3_gp85
- Track 315 : Eyre_23
- Track 316 : Jace_72

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

The start number called the most often in the published annotations is 156, it was called in 75 of the 439 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Affeca_43, Ailee_42, Angelicage_43, Archis_26, Ashertheman_46, Azula_27, Baddon_45, Barco_25, Barsten_46, Baumdotcom_44, Begonia_26, Bibwit_44, Bizzy_46, BlingBling_25, Blueberry_27, BobBob_43, Brandonk123_47, BritBrat_27, Bunnybear_24, CaptainKirk2_25, ChadMasterC_46, Charming_46, Daredevil_123, Delian_25, Derg_43, EMoore_42, Fenry_24, Fitzgerald_44, Flatwoods_46, Fosterous_43, Frokostdame_25, Gaea_45, Galadriel_45, Geodirt_44, Guacamole_25, Gustavo_45, Hitter_25, JKSyngboy_43, Jabberwocky_44, Jalammah_27, JasperJr_25, Kamashten_43, Keitabear_45, Kewpiedoll_45, Kroos_46, Kwobi_46, Lennon_45, LilHam_43, Lilbeanie_44, Love_49, Lysidious_26, Malachai_26, McKinley_47, Melba_25, Mellie_24, MintFen_25, MissRona_27, MoontowerMania_45, Murp_26, Nordenberg_40, Paries_48, PhrostedPhlake_27, Pipp_25, Ribeye_46, RiverRaider_47, Rofo_46, Samba_25, Sanjuju_44, Saronaya_45, SchottB_44, Sedona_45, Shivanishola_45, Sitar_45, StorminNorm_45, Stultus_44, TPA4_30, Tangent_46, Tangerine_45, Thing3_43, Tycho_45, UmaThurman_25, Utz_25, Vivi2_48, Walrus_27, Wisp_24, YorkOnyx_46,

Zarbodnamra_25,

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

• Bonum_21, Bradissa_27, Buggaboo_20, EMSquaredA_27, EnalisNailo_27, Floral_27, Gambino_27, Kabluna_21, Lilas_27, Marteena_27, Matteo_23, NosilaM_21, Pepperoni_24, Pollux_27, SuperSulley_20,

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

• APunk_47, Abblin_46, Adora_25, Aflac_30, Agueybana_26, AlainaMarie_30, Aleemily_32, Ali17_42, Alok_30, AlumE_26, Alyssamiracle_87, AnClar_43, AnarQue_45, Angelique_28, Annalisa_25, Antonio_27, Apeppi_82, Apiary_20, Apricot_27, Archimedes_43, Arri_47, Arti_19, Artorias_27, Asapag_28, Attis_24, Avazak_27, Avian_84, Axumite_42, BBQValindra_26, BENTherdunthat_28, BackstagePass_26, Bakery_49, Bantam_131, Barb_46, BatStarr_25, BaxterFox_25, BearBQ_27, BeeGee_26, Beenie_25, Belphegor_45, BiPauneto_20, Bialota_25, BiggityBass_42, Birdsong_27, BirthdayBoy_89, Bjaner7_24, Blino_26, BluerMoon_33, Bosnia_25, Bowser_26, BoyNamedSue_26, Braxoaddie_20, Budski_28, Bunker_26, Burley_30, Cafasso_33, CaiB_45, Camerico_44, Captrips_29, Capybara_27, CarolAnn_26, Cashline_26, CharlottesWeb_42, CheeseTouch_28, Chidiebere_31, Chikenjars_30, ChisanaKitsune_27, ClamChowder_46, Clap_24, Clark_25, CloverMinnie_45, Clown_50, CoffeeBean_20, Commandaria_20, Confidence_26, Conley_28, Coriander_27, Crater_26, Crocheter_30, Cynthia_24, DalanDe_26, Dalilpop_23, Danyall_46, DatBoi_128, Delrey21_46, Denise_22, DirtyBoi_28, Dmitri_27, DobbysSock_24, DoctorFroggo_46, Dogfish_46, Doggs_26, Dolores_25, DonkeyMan_49, DoobyDoo_84, Dorin_10, Dorito_24, Duffington_30, DumpTruck_89, DumpsterDude_29, E3_gp85, Easley_25, Ebert_24, Ecliptus_31, Eddiemania_31, EdnaMode_23, Emianna_19, EndAve_30, Ennea_24, Erutan_86, Eudoria_27, Evaa_42, Evamon_43, Eviarto_25, Ewald_46, Eyes_26, Eyre_23, Fairfaxidum_25, Faith5x5_23, Fazel_31, Figliar_30, Fireball_45, Flapper_22, Float294_20, FlyingTortilla_30, FortCran_31, Foxboro_20, Francesca_10, Fresco_42, Frickyeah_27, Fugax_47, Fulcrum_85, Fury_25, GAL1_26, GEazy_26, GMA3_32, GMA6_16, GOATification_85, GRU1_9, GTE5_9, GTE8_7, GemG_24, Genamy16_87, Getalong_29, Gezellig_45, Ghobes_41, Gibbin_88, Gibbles_38, Gill_27, Gizermo_24, Gmala1_33, GordDuk1_33, GordTnk2_33, Gravy_27, Gray_31, Grayson_31, Gretellyn_86, GrootJr_21, Gudmit_24, Gustav_37, GuyFagieri_19, Haley23_24, Halo3_44, Hanem_31, HannahD_26, Hans_46, Hedwig_28, Heinz_50, Herod_25, Hibiscus_50, Holliday_28, Hortense_25, Hortihabitatio_31, Horus_28, Howe_25, HubbaBubba_16, Hugley_25, Hydrus_31, Hyzer_27, IDyn_18, Inspectinfecti_45, JCole_22, Jablanski_28, Jace_72, Jalebi_86, Jambalaya_44, JeanGrey_132, Jifall16_18, Jodelie19_31, Jojo24_48, JuJu_26, Jumbo_41, Kabocha_32, Kamaru_28, Kampe_40, KappaFarmDelta_27, Kenna_27, Kenosha_30, Kerry_27, KidneyBean_19, Kiko_27, KimmyK_45, Kita_27, Kudrefre_120, Kurt_19, Kuwabara_27, Lamberg_23, Lambo_86, Leonard_44, Leroy_28, Ligma_42, Lila22_91, LitninMcQueen_27, LittleMunchkin_44, Lollipop1437_23, LonelyBoi_27, LordFarquaad_24, Lton_23, Lucky10_24, LuckyLeo_84, Lutum_28, MacGully_23, Madeline_25, Madvan_31, Magel_27, MagicMan_26, Mahdia_35, MakoManhole_45, Malibo_27, Malisha_30, Manasvini_27, Maridalia_26, Marietta_19, Mariokart_42, Maselop_20, Mbo2_63, Mbo4_54, Mcklovin_25, MelBins_45, MerCougar_19, Meyran_46, MichaelScott_25, Mocha12_24, ModicumRichard_33, MoiGyank_91, Moosehead_23, Morgana_33, Morkie_24, MortyNRick_27, MossRose_45, Mossy_31, Mutzi_43, NHagos_43, NadineRae_17, Nadmeg_31, NatB6_19, Natkenzie_46, Neobush_27, Nettuno_23,

Neville_115, Nithya_30, NorManre_91, NovaSharks_86, NovumRegina_19, Nubi_44, Nyceirae_51, Nymphadora_25, ODay_32, ObLaDi_33, Obliviate_25, Octobien14_115, Odesza_27, OhMyWard_30, Ohgeesy_25, OlgasClover_30, OneDirection_22, Oogie_31, Opie_26, Orchid_39, Oregano_25, OtterstedtS21_87, Outis_19, PCoral7_26, Pakusa_30, PantheRoc_25, ParvusTarda_86, Patio_21, Patos_91, PatrickStar_40, Penjamin420_87, Pepy6_033, Peregrin_29, Periwinkle_30, Perkunas_31, Petite_27, Petra_27, Phabuloso_27, Phauci_37, Phepper_30, Pherobrine_29, Phinally_44, Phishy_50, Phistory_29, Phlop_43, Phomeo_18, PhorbesPhlower_24, PhriskyACE_24, Pickett_23, PinkCoffee_46, Pleakley_25, Poco6_034, Polly_24, Polyuyuki_20, Portcullis_45, Posh_28, PrincePatrick_25, PullumCavea_43, Pytheas_28, Rabbitrun_118, Ranch_90, RavenCo17_24, RayTheFireFly_27, Reyja_51, Reynauld_61, Rickmore_29, RobinSparkles_42, RogerDodger_47, Roney_27, Rumi_85, Runhaar_30, Ruthy_29, Sadboi_86, Sahara_23, Salvador_43, Samman98_25, Sampson_46, Sampudon_88, Santhid_48, Sapo_40, Savage_24, Savbucketdawg_44, ScarletRaider_30, Schnabeltier_26, Schomber_30, Schwartz33_31, Scioto_47, Secretariat_28, Sekhmet_25, Sephiroth_116, Shatter_42, Shinji_44, Shlim410_25, Sidious_26, Sisko_42, Skysand_20, SmokingBunny_44, SoilAssassin_24, Sour_47, SpeedDemon_1340, Spooky_28, Sproutie_24, Squiddly_30, StarStruck_19, Suerte_23, Sukkupi_19, Suscepit_27, Syleon_121, Tanis_27, Tardus_47, TaronosaurusRx_26, Tarzan_50, Tayonia_27, TenaciousP_34, ThankyouJordi_24, Thimann_25, Tillicus_82, TillyBobJoe_44, TimTam_25, TinyDot_26, Toast_26, Togo_43, Tracker_19, Trax_117, Trumpet_27, TuertoX_24, Turuncu_22, Twinkle_25, Twister6_46, UBSmoodge_32, Untouchable_30, Valary_46, VanDeWege_47, VanLee_104, Vardy_30, Vasanti_23, Verity_46, ViaConlectus_46, Vordorf_47, Weasels2_31, WelcomeAyanna_24, Wheezy_19, Whiteclaw_24, Whitney_29, WhoseManz_19, William_26, WinkNick_25, Wizard_43, Wocket_27, Wojtek_79, Wooper_45, Wrigley_28, Xenia2_89, Yago84_42, Yeet412_24, Yeezy_27, Yikes_87, Yndexa_19, YungMoney_47, ZAYM_27, Zameen_27, Zany_85, Zeph_32, ZiggyZoo_25, Zipp_47, Zirinka_25, Zitch_49,

Summary by start number:

Start 112:

- Found in 48 of 528 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 439
- Called 2.1% of time when present
- Phage (with cluster) where this start called: Gray_31 (DQ),

Start 116:

- Found in 1 of 528 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 439
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fury_25 (CR5),

Start 117:

- Found in 3 of 528 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: E3_gp85 (singleton), GMA6_16 (DQ), Mbo2_63 (singleton),

Start 119:

- Found in 37 of 528 (7.0%) of genes in pham
- Manual Annotations of this start: 26 of 439
- Called 94.6% of time when present
- Phage (with cluster) where this start called: Alok_i_30 (DQ), Arti_19 (CR2), Chidiebere_31 (DQ), ChisanaKitsune_27 (DQ), Commandaria_20 (CR2), DalanDe_26 (DQ), Dalilpop_23 (CR1), Emianna_19 (CR2), Ennea_24 (CR3), Flapper_22 (CR1), Float294_20 (CR3), FlyingTortilla_30 (DQ), Foxboro_20 (CR2), GRU1_9 (CR1), GTE5_9 (CR1), GTE8_7 (CR2), GrootJr_21 (CR2), Hanem_31 (DQ), Jifall16_18 (CR2), Kabocha_32 (DQ), KidneyBean_19 (CR2), Kurt_19 (CR2), Lollipop1437_23 (CR3), NatB6_19 (CR2), NovumRegina_19 (CR2), Oogie_31 (DQ), Pakusa_30 (DQ), Patio_21 (CR3), ScarletRaider_30 (DQ), Schomber_30 (DQ), Skysand_20 (CR3), Tracker_19 (CR2), Turuncu_22 (CR1), UBSmoodge_32 (DQ), Wheezy_19 (CR2),

Start 120:

- Found in 31 of 528 (5.9%) of genes in pham
- Manual Annotations of this start: 3 of 439
- Called 9.7% of time when present
- Phage (with cluster) where this start called: BiPauneto_20 (CR4), Sukkupi_19 (CR4), Yndexa_19 (CR4),

Start 123:

- Found in 3 of 528 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 439
- Called 66.7% of time when present
- Phage (with cluster) where this start called: IDyn_18 (CR4), NadineRae_17 (CR4),

Start 124:

- Found in 8 of 528 (1.5%) of genes in pham
- Manual Annotations of this start: 8 of 439
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bonum_21 (CR2), Buggaboo_20 (CR2), Kabluna_21 (CR2), MerCougar_19 (CR2), NosilaM_21 (CR2), Outis_19 (CR2), StarStruck_19 (CR2), SuperSulley_20 (CR2),

Start 128:

- Found in 7 of 528 (1.3%) of genes in pham
- Manual Annotations of this start: 5 of 439
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DonkeyMan_49 (DY), Heinz_50 (DY), Hibiscus_50 (DY), Jojo24_48 (DY), Reyja_51 (DY), Santhid_48 (DY), Tarzan_50 (DY),

Start 131:

- Found in 9 of 528 (1.7%) of genes in pham
- Manual Annotations of this start: 6 of 439
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Apiary_20 (CR), Braxoaddie_20 (CR), CoffeeBean_20 (CR), GuyFagieri_19 (CR), MacGully_23 (CR), Maselop_20 (CR), Polyyuki_20 (CR),

Start 134:

- Found in 2 of 528 (0.4%) of genes in pham

- Manual Annotations of this start: 1 of 439
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Xenia2_89 (DV),

Start 142:

- Found in 16 of 528 (3.0%) of genes in pham
- Manual Annotations of this start: 1 of 439
- Called 6.2% of time when present
- Phage (with cluster) where this start called: DumpTruck_89 (DV),

Start 146:

- Found in 25 of 528 (4.7%) of genes in pham
- Manual Annotations of this start: 2 of 439
- Called 8.0% of time when present
- Phage (with cluster) where this start called: Clark_25 (CZ4), Dorito_24 (CZ4),

Start 147:

- Found in 6 of 528 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 439
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Jace_72 (singleton),

Start 148:

- Found in 2 of 528 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 439
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Reynauld_61 (singleton),

Start 150:

- Found in 19 of 528 (3.6%) of genes in pham
- Manual Annotations of this start: 18 of 439
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Bakery_49 (DC1), Barb_46 (DC1), ClamChowder_46 (DC1), Delrey21_46 (DE4), DoctorFroggo_46 (DE4), Fireball_45 (DC1), Fugax_47 (DC1), Mutzi_43 (DC1), Nubi_44 (DC1), Phlop_43 (DC1), PinkCoffee_46 (DC1), PullumCavea_43 (DC1), SmokingBunny_44 (DC1), TillyBobJoe_44 (DC1), Togo_43 (DC1), Verity_46 (DE4), YungMoney_47 (DC1), Zipp_47 (DE4),

Start 151:

- Found in 19 of 528 (3.6%) of genes in pham
- Manual Annotations of this start: 15 of 439
- Called 84.2% of time when present
- Phage (with cluster) where this start called: Arri_47 (DC1), Clown_50 (DC2), Danyall_46 (DC1), Evamon_43 (DC1), Gezellig_45 (DC1), Halo3_44 (DC1), Jambalaya_44 (DC1), KimmyK_45 (DC1), Portcullis_45 (DC1), RogerDodger_47 (DC1), Salvador_43 (DC1), Savbucketdawg_44 (DC1), Twister6_46 (DC1), Valary_46 (DC1), VanDeWege_47 (DC1), Wizard_43 (DC1),

Start 152:

- Found in 38 of 528 (7.2%) of genes in pham
- Manual Annotations of this start: 27 of 439
- Called 86.8% of time when present

- Phage (with cluster) where this start called: Alyssamiracle_87 (DV), Avian_84 (DV), BirthdayBoy_89 (DV), Dogfish_46 (DT), DoobyDoo_84 (DV), Erutan_86 (DV), Ewald_46 (DT), Fulcrum_85 (DV), GOATification_85 (DV), Genamy16_87 (DV), Gibbin_88 (DV), GretelLyn_86 (DV), Jalebi_86 (DV), Lambo_86 (DV), Meyran_46 (DT), MoiGyank_91 (DV), NorManre_91 (DV), NovaSharks_86 (DV), Nyceirae_51 (DT), OtterstedtS21_87 (DV), ParvusTarda_86 (DV), Patos_91 (DV), Penjamin420_87 (DV), Phishy_50 (DT), Ranch_90 (DV), Rumi_85 (DV), Sadboi_86 (DV), Sampudon_88 (DV), Tillicus_82 (DV), Vordorf_47 (DT), Wojtek_79 (DV), Yikes_87 (DV), Zany_85 (DV),

Start 154:

- Found in 7 of 528 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 439
- Called 14.3% of time when present
- Phage (with cluster) where this start called: DumpsterDude_29 (DW),

Start 155:

- Found in 28 of 528 (5.3%) of genes in pham
- Manual Annotations of this start: 22 of 439
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Adora_25 (CZ4), Annalisa_25 (CZ4), Beenie_25 (CZ4), Blino_26 (CV), CarolAnn_26 (CV), DobbysSock_24 (CZ4), Dolores_25 (CZ4), Hortense_25 (CZ4), Hyzer_27 (CZ1), JuJu_26 (CV), KappaFarmDelta_27 (CV), Mcklovin_25 (CZ4), MichaelScott_25 (CZ4), Obliviate_25 (CV), Oregano_25 (CZ4), Petra_27 (CV), Samman98_25 (CZ4), Sekhmet_25 (CZ4), Shlim410_25 (CZ4), Sidious_26 (CZ7), Suerte_23 (CZ4), Thimann_25 (CZ4), Twinkle_25 (CZ4), ZiggyZoo_25 (CV),

Start 156:

- Found in 102 of 528 (19.3%) of genes in pham
- Manual Annotations of this start: 75 of 439
- Called 85.3% of time when present
- Phage (with cluster) where this start called: Affeca_43 (DE1), Ailee_42 (DE1), Angelicage_43 (DE1), Archis_26 (CV), Ashertheman_46 (DE1), Azula_27 (CV), Baddon_45 (DE1), Barco_25 (CV), Barsten_46 (DE1), Baumdotcom_44 (DE1), Begonia_26 (CV), Bibwit_44 (DE1), Bizzy_46 (DE1), BlingBling_25 (CV), Blueberry_27 (CV), BobBob_43 (DE1), Brandonk123_47 (DE1), BritBrat_27 (CY2), Bunnybear_24 (CZ), CaptainKirk2_25 (CV), ChadMasterC_46 (DE1), Charming_46 (DE1), Daredevil_123 (DL), Delian_25 (CV), Derg_43 (DE1), EMoore_42 (DE2), Ferry_24 (CV), Fitzgerald_44 (DE1), Flatwoods_46 (DE1), Fosterous_43 (DE1), Frokostdame_25 (CV), Gaea_45 (DE1), Galadriel_45 (DE1), Geodirt_44 (DE1), Guacamole_25 (CV), Gustavo_45 (DE1), Hitter_25 (CV), JKSyngboy_43 (DE1), Jabberwocky_44 (DE1), Jalammah_27 (CV), JasperJr_25 (CV), Kamashten_43 (DE1), Keitabear_45 (DE1), Kewpiedoll_45 (DE1), Kroos_46 (DE1), Kwobi_46 (DE1), Lennon_45 (DE1), LilHam_43 (DE1), Lilbeanie_44 (DE5), Love_49 (DE1), Lysidious_26 (CV), Malachai_26 (CV), McKinley_47 (DE1), Melba_25 (CV), Mellie_24 (CV), MintFen_25 (CV), MissRona_27 (CV), MoontowerMania_45 (DE1), Murp_26 (CV), Nordenberg_40 (DE1), Paries_48 (DE1), PhrostedPhlake_27 (CV), Pipp_25 (CV), Ribeye_46 (DE1), RiverRaider_47 (DE1), Rofo_46 (DE1), Samba_25 (CV), Sanjuju_44 (DE1), Saronaya_45 (DE1), SchottB_44 (DE1), Sedona_45 (DE1), Shivanishola_45 (DE1), Sitar_45 (DE1), StorminNorm_45 (DE1), Stultus_44 (DE1), TPA4_30 (singleton), Tangent_46 (DE1), Tangerine_45 (DE1), Thing3_43 (DE1), Tycho_45 (DE1), UmaThurman_25 (CV), Utz_25 (CV), Vivi2_48 (DE1), Walrus_27

(CV), Wisp_24 (CV), YorkOnyx_46 (DE1), Zarbodnamra_25 (CV),

Start 157:

- Found in 8 of 528 (1.5%) of genes in pham
- Manual Annotations of this start: 6 of 439
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ali17_42 (DE2), Belphegor_45 (DE), Hans_46 (DE2), Inspectinfecti_45 (DE2), Leonard_44 (DE2), MelBins_45 (DE2), Phauci_37 (DE2), Phinally_44 (DE2),

Start 158:

- Found in 32 of 528 (6.1%) of genes in pham
- Manual Annotations of this start: 1 of 439
- Called 3.1% of time when present
- Phage (with cluster) where this start called: Lilas_27 (CY1),

Start 159:

- Found in 24 of 528 (4.5%) of genes in pham
- Manual Annotations of this start: 16 of 439
- Called 79.2% of time when present
- Phage (with cluster) where this start called: APunk_47 (DE4), Abblin_46 (DE4), Bantam_131 (DL), DatBoi_128 (DL), Ghobes_41 (DA), Gustav_37 (CD), Mahdia_35 (CD), Natkenzie_46 (DE4), Neville_115 (DU2), Rabbitrun_118 (DU2), Sampson_46 (DE4), Sapo_40 (DA), Scioto_47 (DE4), SpeedDemon_1340 (DL), Tardus_47 (DE4), Trax_117 (DU2), ViaConlectus_46 (DE4), Wocket_27 (CV), Zitch_49 (DE4),

Start 160:

- Found in 6 of 528 (1.1%) of genes in pham
- Manual Annotations of this start: 5 of 439
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aleemily_32 (DZ), Cafasso_33 (DZ), ModicumRichard_33 (DZ), Morgana_33 (DZ), ObLaDi_33 (DZ), VanLee_104 (singleton),

Start 162:

- Found in 3 of 528 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 439
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Archimedes_43 (DA), Mbo4_54 (singleton),

Start 163:

- Found in 9 of 528 (1.7%) of genes in pham
- Manual Annotations of this start: 4 of 439
- Called 44.4% of time when present
- Phage (with cluster) where this start called: Kudrefre_120 (DU1), Octobien14_115 (DU1), Sephiroth_116 (DU1), Syleon_121 (DU1),

Start 164:

- Found in 5 of 528 (0.9%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: EdnaMode_23 (CZ2),

Start 165:

- Found in 15 of 528 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 439
- Called 13.3% of time when present
- Phage (with cluster) where this start called: Lila22_91 (DV), LuckyLeo_84 (DV),

Start 167:

- Found in 78 of 528 (14.8%) of genes in pham
- Manual Annotations of this start: 3 of 439
- Called 3.8% of time when present
- Phage (with cluster) where this start called: Easley_25 (CZ4), Ruthy_29 (DW), WinkNick_25 (CZ4),

Start 170:

- Found in 2 of 528 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 439
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Marietta_19 (CR4), WhoseManz_19 (CR4),

Start 171:

- Found in 83 of 528 (15.7%) of genes in pham
- Manual Annotations of this start: 34 of 439
- Called 59.0% of time when present
- Phage (with cluster) where this start called: Aflac_30 (DJ), AlainaMarie_30 (DJ), Artorias_27 (DJ), Avazak_27 (DJ), BluerMoon_33 (DJ), Burley_30 (DJ), Captrips_29 (DJ), Copybara_27 (DJ), Chikenjars_30 (DJ), Conley_28 (DJ), Crocheter_30 (DJ), Duffington_30 (DJ), Eddiemania_31 (DJ), EndAve_30 (DJ), Fazel_31 (DJ), Figliar_30 (DJ), FortCran_31 (DJ), Gill_27 (DJ), Gravy_27 (DJ), Hortihabitatio_31 (DJ), Hydrus_31 (DJ), JeanGrey_132 (singleton), Jodelie19_31 (DJ), Kenosha_30 (DJ), Kerry_27 (DJ), Madvan_31 (DJ), Magel_27 (DJ), Mossy_31 (DJ), Nadmeg_31 (DJ), Nithya_30 (DJ), Odesza_27 (DJ), OhMyWard_30 (DJ), OlgasClover_30 (DJ), Pepy6_033 (CC), Perkunas_31 (DJ), Petite_27 (DJ), Phepper_30 (DJ), Pherobrine_29 (DJ), Poco6_034 (CC), Rickmore_29 (DJ), Roney_27 (DJ), Runhaar_30 (DJ), Schwartz33_31 (DJ), Secretariat_28 (DJ), Tanis_27 (DJ), TenaciousP_34 (DJ), Untouchable_30 (DJ), Vardy_30 (DJ), Zeph_32 (DJ),

Start 172:

- Found in 14 of 528 (2.7%) of genes in pham
- No Manual Annotations of this start.
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Phomeo_18 (CR2),

Start 173:

- Found in 25 of 528 (4.7%) of genes in pham
- Manual Annotations of this start: 16 of 439
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Bradissa_27 (CY1), EMSquaredA_27 (CY1), EnalisNailo_27 (CY1), Eyre_23 (singleton), Fairfaxidum_25 (CV), Faith5x5_23 (CZ6), Floral_27 (CY1), GAL1_26 (singleton), Gudmit_24 (singleton), JCole_22 (CZ2), Marteena_27 (CY1), Matteo_23 (CZ2), Morkie_24 (DH), PCoral7_26 (CV), Pepperoni_24 (CZ), PhorbesPhlower_24 (DH), Pollux_27 (CY1), PrincePatrick_25

(CV), Toast_26 (CV), William_26 (CV),

Start 174:

- Found in 21 of 528 (4.0%) of genes in pham
- Manual Annotations of this start: 6 of 439
- Called 33.3% of time when present
- Phage (with cluster) where this start called: DirtyBoi_28 (DB), Dmitri_27 (DB), Doggs_26 (DB), Hedwig_28 (DB), Hugley_25 (CZ1), Kiko_27 (DB), RayTheFireFly_27 (DB),

Start 175:

- Found in 6 of 528 (1.1%) of genes in pham
- Manual Annotations of this start: 6 of 439
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnClar_43 (DR), BiggityBass_42 (DR), LittleMunchkin_44 (DR), Sisko_42 (DR), Sour_47 (DR), Yago84_42 (DR),

Start 176:

- Found in 7 of 528 (1.3%) of genes in pham
- Manual Annotations of this start: 2 of 439
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Camerico_44 (DF), GMA3_32 (DF2), Gmala1_33 (DF1), GordDuk1_33 (DF1), GordTnk2_33 (DF1), Jumbo_41 (DF3),

Start 177:

- Found in 54 of 528 (10.2%) of genes in pham
- Manual Annotations of this start: 45 of 439
- Called 98.1% of time when present
- Phage (with cluster) where this start called: AnarQue_45 (DR), Attis_24 (CZ2), Axumite_42 (DR), BBQValindra_26 (DB), BackstagePass_26 (DB), Bjaner7_24 (CZ2), Bowser_26 (DB), Bunker_26 (DB), CaiB_45 (DR), CharlottesWeb_42 (DR), Clap_24 (CZ2), CloverMinnie_45 (DR), Cynthia_24 (CZ2), Ebert_24 (CZ2), Evaa_42 (DR), Eyes_26 (DB), Fresco_42 (DR), GEazy_26 (DB), GemG_24 (CZ2), Gizermo_24 (CZ2), Haley23_24 (CZ2), HannahD_26 (DB), Lamberg_23 (CZ2), Ligma_42 (DR), LordFarquaad_24 (CZ2), Lton_23 (CZ), Lucky10_24 (DH), MagicMan_26 (DB), MakoManhole_45 (DR), Mariokart_42 (DR), Mocha12_24 (CZ2), Moosehead_23 (CZ6), MossRose_45 (DR), NHagos_43 (DR), Nettuno_23 (CZ2), OneDirection_22 (CZ6), Opie_26 (DB), Pickett_23 (CZ2), RavenCo17_24 (CZ8), Sahara_23 (CZ2), Savage_24 (CZ2), Schnabeltier_26 (DB), Shatter_42 (DR), SoilAssassin_24 (CZ2), Sproutie_24 (CZ2), TaronosaurusRx_26 (DB), TinyDot_26 (singleton), TuertoX_24 (CZ2), Vasanti_23 (CZ2), Whiteclaw_24 (CZ2), Wooper_45 (DR), Yeet412_24 (CZ2), ZAYM_27 (DB),

Start 179:

- Found in 18 of 528 (3.4%) of genes in pham
- Manual Annotations of this start: 5 of 439
- Called 27.8% of time when present
- Phage (with cluster) where this start called: Gibbles_38 (CX), Kampe_40 (CX), Orchid_39 (CX), PatrickStar_40 (CX), RobinSparkles_42 (CX),

Start 184:

- Found in 66 of 528 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 439

- Called 1.5% of time when present
- Phage (with cluster) where this start called: Howe_25 (CZ4),

Start 189:

- Found in 24 of 528 (4.5%) of genes in pham
- Manual Annotations of this start: 20 of 439
- Called 83.3% of time when present
- Phage (with cluster) where this start called: BatStarr_25 (CZ1), BeeGee_26 (CY), Bialota_25 (CZ1), Bosnia_25 (CZ1), Cashline_26 (CY), Confidence_26 (CY1), Eviarto_25 (CZ1), Herod_25 (CZ1), Jablanski_28 (CY), Madeline_25 (CZ1), Malibo_27 (DW), Malisha_30 (DN), Ohgeesy_25 (CZ), Posh_28 (CY), Pytheas_28 (CY), ThankyouJordi_24 (CZ1), TimTam_25 (CZ1), WelcomeAyanna_24 (CZ1), Wrigley_28 (CY), Zirinka_25 (CZ1),

Start 190:

- Found in 16 of 528 (3.0%) of genes in pham
- Manual Annotations of this start: 15 of 439
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agueybana_26 (CZ1), AlumE_26 (CZ1), Antonio_27 (CZ1), BaxterFox_25 (CZ3), BoyNamedSue_26 (CZ1), Eudoria_27 (CZ1), Kita_27 (CZ1), Manasvini_27 (CZ1), Maridalia_26 (CZ1), Neobush_27 (CZ1), PantheRoc_25 (CZ3), Suscepit_27 (CZ1), Tayonia_27 (CZ1), Trumpet_27 (CZ1), Yeezy_27 (CZ3), Zameen_27 (CZ1),

Start 195:

- Found in 30 of 528 (5.7%) of genes in pham
- Manual Annotations of this start: 27 of 439
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angelique_28 (CY1), Apricot_27 (DN3), Asapag_28 (DN1), BENtherdunthat_28 (DN1), BearBQ_27 (DN), Birdsong_27 (DN), Budski_28 (DN), CheeseTouch_28 (DN1), Crater_26 (DN3), Denise_22 (CZ5), Ecliptus_31 (DN), Frickyeah_27 (DN1), Getalong_29 (DN1), Holliday_28 (DN1), Horus_28 (DN1), Kamaru_28 (DN1), Kenna_27 (DN1), Kuwabara_27 (DN4), Leroy_28 (DN1), LitninMcQueen_27 (DN1), LonelyBoi_27 (CY), Lutum_28 (DN1), MortyNRick_27 (DN), ODay_32 (DN), Periwinkle_30 (DN1), Phabuloso_27 (DN1), Phistory_29 (DN1), Spooky_28 (DN2), Squiddly_30 (DN2), Whitney_29 (DN1),

Start 196:

- Found in 92 of 528 (17.4%) of genes in pham
- Manual Annotations of this start: 1 of 439
- Called 2.2% of time when present
- Phage (with cluster) where this start called: Gambino_27 (CV), PhriskyACE_24 (CZ4),

Start 199:

- Found in 6 of 528 (1.1%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Dorin_10 (CG), Francesca_10 (CG),

Start 200:

- Found in 59 of 528 (11.2%) of genes in pham
- Manual Annotations of this start: 2 of 439

- Called 3.4% of time when present
- Phage (with cluster) where this start called: Nymphadora_25 (CZ1), Polly_24 (CZ1),

Start 201:

- Found in 33 of 528 (6.2%) of genes in pham
- No Manual Annotations of this start.
- Called 3.0% of time when present
- Phage (with cluster) where this start called: Apeppi_82 (DV),

Start 204:

- Found in 6 of 528 (1.1%) of genes in pham
- Manual Annotations of this start: 3 of 439
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Grayson_31 (CB), Peregrin_29 (CB), Weasels2_31 (CB),

Start 208:

- Found in 53 of 528 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 439
- Called 1.9% of time when present
- Phage (with cluster) where this start called: Pleakley_25 (CR5),

Start 210:

- Found in 33 of 528 (6.2%) of genes in pham
- No Manual Annotations of this start.
- Called 3.0% of time when present
- Phage (with cluster) where this start called: HubbaBubba_16 (CR4),

Start 225:

- Found in 162 of 528 (30.7%) of genes in pham
- No Manual Annotations of this start.
- Called 0.6% of time when present
- Phage (with cluster) where this start called: Shinji_44 (DC1),

Start 235:

- Found in 60 of 528 (11.4%) of genes in pham
- No Manual Annotations of this start.
- Called 1.7% of time when present
- Phage (with cluster) where this start called: Coriander_27 (DB),

Summary by clusters:

There are 55 clusters represented in this pham: DN, DL, DJ, DH, CZ2, CZ3, CZ1, DB, singleton, CZ4, DA, DZ, CZ8, DY, DV, DW, DT, DR, DQ, CZ7, DN4, DF1, DF3, DF2, DF, DN1, DN3, CB, DU1, DU2, CY2, CY1, DE, CC, CZ6, DN2, CG, CD, CZ, CY, CX, CR, CZ5, DC2, CV, DC1, CR2, CR3, CR1, CR4, CR5, DE1, DE2, DE4, DE5,

Info for manual annotations of cluster CB:

- Start number 204 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CD:

- Start number 159 was manually annotated 2 times for cluster CD.

Info for manual annotations of cluster CR:

- Start number 131 was manually annotated 6 times for cluster CR.

Info for manual annotations of cluster CR1:

- Start number 119 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 119 was manually annotated 12 times for cluster CR2.
- Start number 124 was manually annotated 8 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 119 was manually annotated 5 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 120 was manually annotated 3 times for cluster CR4.
- Start number 123 was manually annotated 2 times for cluster CR4.
- Start number 170 was manually annotated 2 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 116 was manually annotated 1 time for cluster CR5.
- Start number 208 was manually annotated 1 time for cluster CR5.

Info for manual annotations of cluster CV:

- Start number 155 was manually annotated 7 times for cluster CV.
- Start number 156 was manually annotated 28 times for cluster CV.
- Start number 159 was manually annotated 1 time for cluster CV.
- Start number 173 was manually annotated 4 times for cluster CV.
- Start number 196 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CX:

- Start number 179 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster CY:

- Start number 189 was manually annotated 6 times for cluster CY.
- Start number 195 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CY1:

- Start number 158 was manually annotated 1 time for cluster CY1.
- Start number 173 was manually annotated 6 times for cluster CY1.
- Start number 189 was manually annotated 1 time for cluster CY1.
- Start number 195 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 156 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CZ:

- Start number 156 was manually annotated 1 time for cluster CZ.
- Start number 177 was manually annotated 1 time for cluster CZ.
- Start number 189 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 189 was manually annotated 10 times for cluster CZ1.
- Start number 190 was manually annotated 13 times for cluster CZ1.
- Start number 200 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 173 was manually annotated 1 time for cluster CZ2.
- Start number 177 was manually annotated 21 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 190 was manually annotated 2 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 146 was manually annotated 2 times for cluster CZ4.
- Start number 155 was manually annotated 14 times for cluster CZ4.
- Start number 167 was manually annotated 2 times for cluster CZ4.
- Start number 184 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 195 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 173 was manually annotated 1 time for cluster CZ6.
- Start number 177 was manually annotated 2 times for cluster CZ6.

Info for manual annotations of cluster CZ7:

- Start number 155 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster CZ8:

- Start number 177 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DA:

- Start number 159 was manually annotated 2 times for cluster DA.
- Start number 162 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DB:

- Start number 174 was manually annotated 6 times for cluster DB.
- Start number 177 was manually annotated 9 times for cluster DB.

Info for manual annotations of cluster DC1:

- Start number 150 was manually annotated 14 times for cluster DC1.
- Start number 151 was manually annotated 14 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 151 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:

- Start number 156 was manually annotated 42 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 156 was manually annotated 1 time for cluster DE2.
- Start number 157 was manually annotated 6 times for cluster DE2.

Info for manual annotations of cluster DE4:

- Start number 150 was manually annotated 4 times for cluster DE4.
- Start number 159 was manually annotated 5 times for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 156 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DF:

- Start number 176 was manually annotated 1 time for cluster DF.

Info for manual annotations of cluster DF3:

- Start number 176 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DH:

- Start number 173 was manually annotated 2 times for cluster DH.
- Start number 177 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DJ:

- Start number 171 was manually annotated 34 times for cluster DJ.

Info for manual annotations of cluster DL:

- Start number 156 was manually annotated 1 time for cluster DL.
- Start number 159 was manually annotated 3 times for cluster DL.

Info for manual annotations of cluster DN:

- Start number 189 was manually annotated 1 time for cluster DN.
- Start number 195 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 195 was manually annotated 14 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 195 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 195 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 195 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DQ:

- Start number 112 was manually annotated 1 time for cluster DQ.
- Start number 119 was manually annotated 6 times for cluster DQ.

Info for manual annotations of cluster DR:

- Start number 175 was manually annotated 6 times for cluster DR.
- Start number 177 was manually annotated 10 times for cluster DR.

Info for manual annotations of cluster DT:

- Start number 152 was manually annotated 5 times for cluster DT.

Info for manual annotations of cluster DU1:

- Start number 163 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 159 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster DV:

- Start number 134 was manually annotated 1 time for cluster DV.
- Start number 142 was manually annotated 1 time for cluster DV.
- Start number 152 was manually annotated 22 times for cluster DV.
- Start number 165 was manually annotated 1 time for cluster DV.

Info for manual annotations of cluster DW:

- Start number 154 was manually annotated 1 time for cluster DW.
- Start number 167 was manually annotated 1 time for cluster DW.
- Start number 189 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster DY:

- Start number 128 was manually annotated 5 times for cluster DY.

Info for manual annotations of cluster DZ:

- Start number 160 was manually annotated 4 times for cluster DZ.

Gene Information:

Gene: APunk_47 Start: 40146, Stop: 40871, Start Num: 159

Candidate Starts for APunk_47:

(86, 39999), (99, 40035), (Start: 159 @40146 has 16 MA's), (Start: 196 @40200 has 1 MA's), (225, 40251), (231, 40260), (265, 40311), (274, 40329), (291, 40371), (321, 40428), (337, 40452), (370, 40518), (410, 40617), (427, 40653), (441, 40680), (501, 40791), (521, 40827),

Gene: Abblin_46 Start: 40683, Stop: 41405, Start Num: 159

Candidate Starts for Abblin_46:

(61, 40467), (99, 40572), (Start: 159 @40683 has 16 MA's), (225, 40788), (231, 40797), (265, 40848), (274, 40866), (291, 40908), (330, 40974), (333, 40980), (337, 40986), (370, 41052), (410, 41151), (501, 41325), (514, 41346), (521, 41361),

Gene: Adora_25 Start: 21784, Stop: 22572, Start Num: 155

Candidate Starts for Adora_25:

(Start: 146 @21772 has 2 MA's), (Start: 155 @21784 has 22 MA's), (Start: 167 @21796 has 3 MA's), (169, 21799), (Start: 184 @21826 has 1 MA's), (Start: 196 @21838 has 1 MA's), (225, 21889), (268, 21982), (289, 22027), (290, 22030), (291, 22033), (319, 22093), (330, 22111), (337, 22123), (339, 22126), (340, 22129), (385, 22219), (410, 22306), (497, 22474), (507, 22492), (527, 22528), (536, 22552),

Gene: Affeca_43 Start: 39450, Stop: 40184, Start Num: 156

Candidate Starts for Affeca_43:

(Start: 120 @39393 has 3 MA's), (Start: 156 @39450 has 75 MA's), (Start: 167 @39468 has 3 MA's), (225, 39555), (237, 39582), (265, 39630), (274, 39648), (291, 39690), (335, 39768), (360, 39810), (375, 39843), (427, 39978), (446, 40017), (501, 40116), (517, 40143), (534, 40176),

Gene: Aflac_30 Start: 22320, Stop: 23108, Start Num: 171

Candidate Starts for Aflac_30:

(Start: 171 @22320 has 34 MA's), (197, 22365), (215, 22395), (220, 22407), (242, 22461), (310, 22608), (327, 22635), (337, 22650), (369, 22734), (408, 22839), (409, 22842), (440, 22917), (506, 23064),

Gene: Agueybana_26 Start: 22183, Stop: 22803, Start Num: 190

Candidate Starts for Agueybana_26:

(39, 21808), (78, 21979), (80, 21982), (Start: 112 @22063 has 1 MA's), (121, 22084), (Start: 190 @22183 has 15 MA's), (Start: 200 @22192 has 2 MA's), (224, 22237), (266, 22318), (290, 22372), (309, 22417), (332, 22453), (356, 22504), (380, 22552), (399, 22615), (409, 22645), (437, 22696), (500, 22774),

Gene: Ailee_42 Start: 39043, Stop: 39777, Start Num: 156

Candidate Starts for Ailee_42:

(149, 39037), (Start: 156 @39043 has 75 MA's), (Start: 167 @39061 has 3 MA's), (225, 39148), (237, 39175), (265, 39223), (274, 39241), (291, 39283), (335, 39361), (360, 39403), (375, 39436), (427, 39571), (446, 39610), (501, 39709), (517, 39736), (534, 39769),

Gene: AlainaMarie_30 Start: 22307, Stop: 23095, Start Num: 171

Candidate Starts for AlainaMarie_30:

(Start: 171 @22307 has 34 MA's), (197, 22352), (215, 22382), (220, 22394), (242, 22448), (310, 22595), (333, 22631), (337, 22637), (408, 22826), (409, 22829), (429, 22886), (440, 22904), (452, 22931), (506, 23051),

Gene: Aleemily_32 Start: 27271, Stop: 28023, Start Num: 160

Candidate Starts for Aleemily_32:

(Start: 160 @27271 has 5 MA's), (Start: 196 @27322 has 1 MA's), (291, 27499), (349, 27598), (387, 27658), (410, 27736), (441, 27799), (472, 27862), (488, 27889), (543, 27991),

Gene: Ali17_42 Start: 38338, Stop: 39057, Start Num: 157

Candidate Starts for Ali17_42:

(Start: 157 @38338 has 6 MA's), (169, 38353), (Start: 196 @38392 has 1 MA's), (225, 38443), (265, 38503), (382, 38722), (388, 38731), (392, 38749), (410, 38809), (446, 38884), (501, 38983), (524, 39022), (533, 39043),

Gene: Alok_i_30 Start: 21568, Stop: 22266, Start Num: 119

Candidate Starts for Alok_i_30:

(Start: 112 @21550 has 1 MA's), (Start: 119 @21568 has 26 MA's), (Start: 208 @21631 has 1 MA's), (227, 21667), (259, 21727), (266, 21739), (276, 21760), (290, 21793), (303, 21823), (304, 21826), (313, 21847), (320, 21853), (323, 21859), (336, 21880), (385, 21985), (388, 21994), (406, 22063), (408, 22069), (427, 22105), (431, 22117), (475, 22156), (487, 22177), (516, 22246), (525, 22258), (526, 22261),

Gene: AlumE_26 Start: 22182, Stop: 22802, Start Num: 190

Candidate Starts for AlumE_26:

(39, 21807), (78, 21978), (80, 21981), (Start: 112 @22062 has 1 MA's), (121, 22083), (Start: 190 @22182 has 15 MA's), (Start: 200 @22191 has 2 MA's), (224, 22236), (266, 22317), (290, 22371), (309, 22416), (332, 22452), (356, 22503), (380, 22551), (399, 22614), (409, 22644), (437, 22695), (500, 22773),

Gene: Alyssmiracle_87 Start: 57197, Stop: 58048, Start Num: 152

Candidate Starts for Alyssmiracle_87:

(139, 57173), (140, 57176), (Start: 152 @57197 has 27 MA's), (Start: 165 @57218 has 1 MA's), (Start: 171 @57227 has 34 MA's), (201, 57269), (205, 57275), (228, 57320), (273, 57422), (275, 57425), (289, 57461), (293, 57473), (309, 57512), (328, 57542), (330, 57545), (337, 57557), (339, 57560), (392, 57692), (412, 57758), (416, 57767), (430, 57797), (444, 57824), (454, 57845), (478, 57902), (496, 57947), (533, 58025),

Gene: AnClar_43 Start: 38069, Stop: 38794, Start Num: 175

Candidate Starts for AnClar_43:

(74, 37871), (104, 37943), (Start: 175 @38069 has 6 MA's), (180, 38078), (258, 38228), (262, 38234), (271, 38258), (276, 38267), (282, 38279), (287, 38294), (303, 38336), (313, 38360), (340, 38390), (381, 38474), (399, 38537), (407, 38561), (409, 38567), (496, 38750), (500, 38759),

Gene: AnarQue_45 Start: 37567, Stop: 38289, Start Num: 177

Candidate Starts for AnarQue_45:

(85, 37381), (Start: 177 @37567 has 45 MA's), (229, 37660), (262, 37729), (273, 37756), (277, 37762), (339, 37876), (381, 37960), (409, 38053), (423, 38083),

Gene: Angelicage_43 Start: 39868, Stop: 40602, Start Num: 156

Candidate Starts for Angelicage_43:

(Start: 120 @39811 has 3 MA's), (Start: 156 @39868 has 75 MA's), (Start: 167 @39886 has 3 MA's), (225, 39973), (237, 40000), (265, 40048), (274, 40066), (291, 40108), (335, 40186), (360, 40228), (375, 40261), (427, 40396), (446, 40435), (501, 40534), (517, 40561), (534, 40594),

Gene: Angelique_28 Start: 22797, Stop: 23417, Start Num: 195

Candidate Starts for Angelique_28:

(161, 22740), (Start: 195 @22797 has 27 MA's), (224, 22848), (266, 22929), (276, 22950), (309, 23028), (332, 23064), (349, 23100), (356, 23115), (380, 23163), (399, 23226), (437, 23307), (500, 23385), (506, 23394), (507, 23397),

Gene: Annalisa_25 Start: 21246, Stop: 22034, Start Num: 155

Candidate Starts for Annalisa_25:

(Start: 146 @21234 has 2 MA's), (Start: 155 @21246 has 22 MA's), (Start: 167 @21258 has 3 MA's), (169, 21261), (Start: 196 @21300 has 1 MA's), (199, 21303), (225, 21351), (268, 21444), (289, 21489), (290, 21492), (291, 21495), (319, 21555), (330, 21573), (337, 21585), (339, 21588), (340, 21591), (385, 21681), (410, 21768), (497, 21936), (507, 21954), (527, 21990), (536, 22014),

Gene: Antonio_27 Start: 22303, Stop: 22923, Start Num: 190

Candidate Starts for Antonio_27:

(39, 21928), (78, 22099), (80, 22102), (Start: 112 @22183 has 1 MA's), (121, 22204), (Start: 190 @22303 has 15 MA's), (Start: 200 @22312 has 2 MA's), (224, 22357), (266, 22438), (309, 22537), (332, 22573), (356, 22624), (380, 22672), (399, 22735), (409, 22765), (437, 22816), (487, 22867), (500, 22894),

Gene: Apeppi_82 Start: 58508, Stop: 59287, Start Num: 201

Candidate Starts for Apeppi_82:

(139, 58415), (140, 58418), (Start: 147 @58427 has 1 MA's), (Start: 152 @58439 has 27 MA's), (Start: 165 @58457 has 1 MA's), (Start: 171 @58466 has 34 MA's), (Start: 184 @58490 has 1 MA's), (201, 58508), (231, 58565), (289, 58700), (304, 58739), (309, 58751), (330, 58784), (337, 58796), (346, 58817), (385, 58904), (392, 58931), (418, 59009), (430, 59036), (433, 59042), (443, 59057), (444, 59063), (478, 59141), (493, 59177), (534, 59267),

Gene: Apiary_20 Start: 9988, Stop: 10884, Start Num: 131

Candidate Starts for Apiary_20:

(46, 9751), (Start: 131 @9988 has 6 MA's), (178, 10066), (227, 10153), (244, 10201), (254, 10216), (295, 10294), (312, 10339), (385, 10471), (412, 10564), (420, 10579), (471, 10678), (503, 10759), (527, 10807), (545, 10852),

Gene: Apricot_27 Start: 21059, Stop: 21682, Start Num: 195

Candidate Starts for Apricot_27:

(42, 20684), (52, 20741), (62, 20786), (78, 20840), (80, 20843), (94, 20879), (Start: 112 @20924 has 1 MA's), (113, 20927), (Start: 195 @21059 has 27 MA's), (Start: 200 @21065 has 2 MA's), (217, 21095), (224, 21110), (254, 21170), (293, 21251), (309, 21290), (349, 21362), (380, 21425), (395, 21470), (399, 21488), (406, 21509), (409, 21518), (500, 21650), (506, 21659), (510, 21671),

Gene: Archimedes_43 Start: 37658, Stop: 38419, Start Num: 162

Candidate Starts for Archimedes_43:

(Start: 162 @37658 has 1 MA's), (197, 37715), (212, 37739), (263, 37835), (265, 37841), (267, 37847), (288, 37895), (289, 37898), (295, 37913), (300, 37928), (318, 37964), (385, 38093), (459, 38264), (473, 38291),

Gene: Archis_26 Start: 21363, Stop: 22166, Start Num: 156

Candidate Starts for Archis_26:

(Start: 156 @21363 has 75 MA's), (Start: 184 @21411 has 1 MA's), (Start: 196 @21423 has 1 MA's), (207, 21438), (225, 21474), (268, 21567), (291, 21618), (310, 21666), (319, 21678), (330, 21696), (337, 21708), (339, 21711), (340, 21714), (391, 21822), (410, 21891), (423, 21912), (425, 21918), (506, 22074), (527, 22110), (536, 22134), (547, 22155),

Gene: Arri_47 Start: 36352, Stop: 37107, Start Num: 151

Candidate Starts for Arri_47:

(108, 36274), (Start: 151 @36352 has 15 MA's), (206, 36424), (266, 36532), (288, 36577), (376, 36727), (382, 36733), (392, 36760), (405, 36808), (455, 36910), (505, 36994), (540, 37066),

Gene: Arti_19 Start: 9412, Stop: 10137, Start Num: 119

Candidate Starts for Arti_19:

(Start: 119 @9412 has 26 MA's), (143, 9436), (172, 9469), (210, 9472), (231, 9508), (235, 9523), (257, 9565), (331, 9712), (405, 9904), (457, 10006), (475, 10036), (487, 10057), (493, 10072), (520, 10132),

Gene: Artorias_27 Start: 19318, Stop: 20103, Start Num: 171

Candidate Starts for Artorias_27:

(Start: 171 @19318 has 34 MA's), (Start: 179 @19333 has 5 MA's), (197, 19363), (242, 19459), (246, 19465), (309, 19603), (330, 19636), (337, 19648), (408, 19837), (409, 19840), (440, 19915), (506, 20062),

Gene: Asapag_28 Start: 21501, Stop: 22124, Start Num: 195

Candidate Starts for Asapag_28:

(42, 21126), (52, 21183), (62, 21228), (78, 21282), (80, 21285), (94, 21321), (Start: 112 @21366 has 1 MA's), (113, 21369), (Start: 195 @21501 has 27 MA's), (Start: 200 @21507 has 2 MA's), (217, 21537), (224, 21552), (254, 21612), (290, 21687), (309, 21732), (332, 21768), (349, 21804), (380, 21867), (395, 21912), (399, 21930), (406, 21951), (415, 21972), (500, 22092), (506, 22101), (510, 22113),

Gene: Ashertheman_46 Start: 39868, Stop: 40611, Start Num: 156

Candidate Starts for Ashertheman_46:

(Start: 156 @39868 has 75 MA's), (Start: 167 @39886 has 3 MA's), (197, 39931), (225, 39976), (260, 40039), (265, 40051), (274, 40069), (291, 40111), (302, 40138), (360, 40231), (363, 40243), (412, 40363), (427, 40399), (431, 40411), (446, 40438), (467, 40471), (483, 40504), (501, 40537), (517, 40564),

Gene: Attis_24 Start: 19791, Stop: 20498, Start Num: 177

Candidate Starts for Attis_24:

(98, 19647), (Start: 177 @19791 has 45 MA's), (211, 19848), (231, 19887), (258, 19947), (266, 19965), (267, 19968), (276, 19986), (291, 20022), (292, 20025), (305, 20058), (313, 20076), (339, 20103), (370, 20181), (399, 20250), (409, 20280), (411, 20286), (510, 20490),

Gene: Avazak_27 Start: 19325, Stop: 20110, Start Num: 171

Candidate Starts for Avazak_27:

(Start: 171 @19325 has 34 MA's), (Start: 179 @19340 has 5 MA's), (197, 19370), (242, 19466), (246, 19472), (309, 19610), (330, 19643), (337, 19655), (408, 19844), (409, 19847), (440, 19922), (506, 20069),

Gene: Avian_84 Start: 56928, Stop: 57779, Start Num: 152

Candidate Starts for Avian_84:

(83, 56778), (88, 56787), (91, 56802), (96, 56811), (139, 56904), (140, 56907), (Start: 152 @56928 has 27 MA's), (Start: 165 @56949 has 1 MA's), (Start: 171 @56958 has 34 MA's), (201, 57000), (205, 57006), (228, 57051), (273, 57153), (275, 57156), (289, 57192), (293, 57204), (309, 57243), (328, 57273), (330, 57276), (337, 57288), (339, 57291), (392, 57423), (412, 57489), (416, 57498), (430, 57528), (444, 57555), (454, 57576), (478, 57633), (496, 57678), (533, 57756),

Gene: Axumite_42 Start: 35273, Stop: 35995, Start Num: 177

Candidate Starts for Axumite_42:

(29, 34883), (64, 35060), (104, 35168), (Start: 177 @35273 has 45 MA's), (262, 35435), (282, 35480), (305, 35543), (313, 35561), (339, 35588), (370, 35666), (372, 35669), (399, 35738), (409, 35768), (411, 35774), (502, 35963),

Gene: Azula_27 Start: 21464, Stop: 22264, Start Num: 156

Candidate Starts for Azula_27:

(82, 21314), (Start: 156 @21464 has 75 MA's), (Start: 184 @21512 has 1 MA's), (Start: 196 @21524 has 1 MA's), (225, 21575), (268, 21668), (291, 21719), (315, 21776), (319, 21779), (330, 21797), (337, 21809), (339, 21812), (340, 21815), (410, 21992), (423, 22013), (425, 22019), (441, 22055), (497, 22160), (506, 22175), (507, 22178), (527, 22211), (536, 22235),

Gene: BBQValindra_26 Start: 21429, Stop: 22148, Start Num: 177

Candidate Starts for BBQValindra_26:

(Start: 142 @21372 has 1 MA's), (Start: 177 @21429 has 45 MA's), (231, 21522), (235, 21537), (258, 21582), (282, 21633), (292, 21660), (302, 21684), (339, 21738), (342, 21747), (346, 21756), (409, 21918), (411, 21924),

Gene: BENtherdunthat_28 Start: 21498, Stop: 22121, Start Num: 195

Candidate Starts for BENtherdunthat_28:

(42, 21123), (52, 21180), (62, 21225), (78, 21279), (80, 21282), (94, 21318), (Start: 112 @21363 has 1 MA's), (113, 21366), (Start: 195 @21498 has 27 MA's), (Start: 200 @21504 has 2 MA's), (217, 21534), (224, 21549), (226, 21552), (266, 21630), (293, 21690), (309, 21729), (332, 21765), (349, 21801), (380, 21864), (399, 21927), (406, 21948), (409, 21957), (415, 21969), (431, 22002), (500, 22089), (506, 22098),

Gene: BackstagePass_26 Start: 21561, Stop: 22274, Start Num: 177

Candidate Starts for BackstagePass_26:

(Start: 142 @21504 has 1 MA's), (Start: 177 @21561 has 45 MA's), (231, 21654), (235, 21669), (258, 21714), (291, 21789), (292, 21792), (302, 21816), (342, 21879), (346, 21888), (385, 21963), (405, 22038), (409, 22050), (411, 22056),

Gene: Baddon_45 Start: 40406, Stop: 41149, Start Num: 156

Candidate Starts for Baddon_45:

(Start: 156 @40406 has 75 MA's), (Start: 167 @40424 has 3 MA's), (197, 40469), (225, 40514), (260, 40577), (265, 40589), (274, 40607), (291, 40649), (302, 40676), (360, 40769), (363, 40781), (412, 40901), (427, 40937), (431, 40949), (446, 40976), (467, 41009), (483, 41042), (501, 41075), (517, 41102),

Gene: Bakery_49 Start: 37499, Stop: 38254, Start Num: 150

Candidate Starts for Bakery_49:

(56, 37256), (95, 37388), (132, 37472), (140, 37484), (Start: 150 @37499 has 18 MA's), (Start: 167 @37517 has 3 MA's), (206, 37571), (223, 37604), (225, 37607), (236, 37634), (266, 37679), (376, 37874), (382, 37880), (392, 37907), (405, 37955), (455, 38057), (505, 38141), (540, 38213), (546, 38225),

Gene: Bantam_131 Start: 78134, Stop: 78856, Start Num: 159

Candidate Starts for Bantam_131:

(76, 77963), (126, 78083), (Start: 142 @78107 has 1 MA's), (Start: 159 @78134 has 16 MA's), (192, 78191), (243, 78287),

Gene: Barb_46 Start: 36471, Stop: 37226, Start Num: 150

Candidate Starts for Barb_46:

(140, 36456), (Start: 150 @36471 has 18 MA's), (206, 36543), (225, 36579), (266, 36651), (376, 36846), (382, 36852), (392, 36879), (405, 36927), (455, 37029), (505, 37113), (540, 37185),

Gene: Barco_25 Start: 21152, Stop: 21955, Start Num: 156

Candidate Starts for Barco_25:

(Start: 156 @21152 has 75 MA's), (Start: 184 @21200 has 1 MA's), (Start: 196 @21212 has 1 MA's), (207, 21227), (225, 21263), (268, 21356), (291, 21407), (315, 21464), (319, 21467), (330, 21485), (337, 21497), (339, 21500), (340, 21503), (410, 21680), (423, 21701), (425, 21707), (506, 21863), (527, 21899), (536, 21923), (547, 21944),

Gene: Barsten_46 Start: 40023, Stop: 40757, Start Num: 156

Candidate Starts for Barsten_46:

(82, 39876), (Start: 120 @39966 has 3 MA's), (Start: 156 @40023 has 75 MA's), (Start: 167 @40041 has 3 MA's), (225, 40128), (237, 40155), (265, 40203), (274, 40221), (291, 40263), (335, 40341), (360, 40383), (375, 40416), (427, 40551), (446, 40590), (501, 40689), (517, 40716), (534, 40749),

Gene: BatStarr_25 Start: 22309, Stop: 22926, Start Num: 189

Candidate Starts for BatStarr_25:

(121, 22210), (153, 22249), (Start: 174 @22282 has 6 MA's), (Start: 189 @22309 has 20 MA's), (Start: 200 @22318 has 2 MA's), (224, 22360), (231, 22372), (254, 22420), (266, 22441), (276, 22462), (290, 22495), (292, 22498), (309, 22540), (332, 22576), (356, 22627), (380, 22675), (399, 22738), (409, 22768), (437, 22819), (500, 22897),

Gene: Baumdotcom_44 Start: 39257, Stop: 40000, Start Num: 156

Candidate Starts for Baumdotcom_44:

(Start: 156 @39257 has 75 MA's), (Start: 167 @39275 has 3 MA's), (197, 39320), (225, 39365), (265, 39440), (274, 39458), (291, 39500), (360, 39620), (363, 39632), (412, 39752), (427, 39788), (431, 39800), (446, 39827), (467, 39860), (483, 39893), (501, 39926), (517, 39953),

Gene: BaxterFox_25 Start: 21503, Stop: 22126, Start Num: 190

Candidate Starts for BaxterFox_25:

(78, 21299), (80, 21302), (Start: 112 @21383 has 1 MA's), (121, 21404), (Start: 190 @21503 has 15 MA's), (Start: 200 @21512 has 2 MA's), (224, 21557), (231, 21569), (254, 21617), (266, 21638), (290, 21692), (309, 21737), (332, 21773), (334, 21776), (356, 21824), (380, 21872), (399, 21935), (409, 21965), (437, 22019), (500, 22097),

Gene: BearBQ_27 Start: 22338, Stop: 22961, Start Num: 195

Candidate Starts for BearBQ_27:

(42, 21963), (52, 22020), (62, 22065), (78, 22119), (80, 22122), (94, 22158), (Start: 112 @22203 has 1 MA's), (113, 22206), (Start: 195 @22338 has 27 MA's), (Start: 200 @22344 has 2 MA's), (217, 22374), (224, 22389), (254, 22449), (290, 22524), (309, 22569), (332, 22605), (349, 22641), (380, 22704), (399, 22767), (406, 22788), (409, 22797), (444, 22854), (500, 22929), (506, 22938),

Gene: BeeGee_26 Start: 21791, Stop: 22411, Start Num: 189

Candidate Starts for BeeGee_26:

(Start: 189 @21791 has 20 MA's), (Start: 200 @21797 has 2 MA's), (224, 21842), (239, 21878), (266, 21923), (290, 21977), (309, 22022), (349, 22094), (380, 22157), (399, 22220), (437, 22301), (500, 22379), (506, 22388), (507, 22391),

Gene: Beenie_25 Start: 21603, Stop: 22391, Start Num: 155

Candidate Starts for Beenie_25:

(Start: 146 @21591 has 2 MA's), (Start: 155 @21603 has 22 MA's), (Start: 167 @21615 has 3 MA's), (169, 21618), (Start: 184 @21645 has 1 MA's), (Start: 196 @21657 has 1 MA's), (225, 21708), (268, 21801), (289, 21846), (290, 21849), (291, 21852), (319, 21912), (330, 21930), (337, 21942), (339, 21945), (340, 21948), (385, 22038), (410, 22125), (427, 22161), (507, 22311), (527, 22347), (536, 22371),

Gene: Begonia_26 Start: 21633, Stop: 22436, Start Num: 156

Candidate Starts for Begonia_26:

(Start: 156 @21633 has 75 MA's), (Start: 184 @21681 has 1 MA's), (Start: 196 @21693 has 1 MA's), (207, 21708), (225, 21744), (268, 21837), (291, 21888), (315, 21945), (319, 21948), (330, 21966), (337, 21978), (339, 21981), (340, 21984), (410, 22161), (423, 22182), (425, 22188), (506, 22344), (527, 22380), (536, 22404), (547, 22425),

Gene: Belphegor_45 Start: 40390, Stop: 41112, Start Num: 157

Candidate Starts for Belphegor_45:

(109, 40306), (Start: 157 @40390 has 6 MA's), (169, 40405), (Start: 196 @40444 has 1 MA's), (225, 40495), (265, 40558), (382, 40777), (408, 40861), (410, 40864), (446, 40939), (524, 41077), (533, 41098),

Gene: BiPauneto_20 Start: 7795, Stop: 8589, Start Num: 120

Candidate Starts for BiPauneto_20:

(Start: 120 @7795 has 3 MA's), (Start: 208 @7909 has 1 MA's), (210, 7912), (216, 7924), (257, 8005), (331, 8155), (343, 8179), (357, 8212), (405, 8344), (469, 8470), (487, 8506), (511, 8560),

Gene: Bialota_25 Start: 22321, Stop: 22938, Start Num: 189

Candidate Starts for Bialota_25:

(121, 22222), (153, 22261), (Start: 174 @22294 has 6 MA's), (Start: 189 @22321 has 20 MA's), (Start: 200 @22330 has 2 MA's), (224, 22372), (231, 22384), (254, 22432), (266, 22453), (276, 22474), (290, 22507), (309, 22552), (332, 22588), (356, 22639), (399, 22750), (409, 22780), (437, 22831), (500, 22909),

Gene: Bibwit_44 Start: 38980, Stop: 39714, Start Num: 156

Candidate Starts for Bibwit_44:

(149, 38971), (Start: 154 @38977 has 1 MA's), (Start: 156 @38980 has 75 MA's), (Start: 167 @38998 has 3 MA's), (225, 39085), (237, 39112), (265, 39160), (274, 39178), (291, 39220), (335, 39298), (360, 39340), (375, 39373), (427, 39508), (446, 39547), (501, 39646), (517, 39673), (534, 39706),

Gene: BiggityBass_42 Start: 37537, Stop: 38262, Start Num: 175

Candidate Starts for BiggityBass_42:

(Start: 175 @37537 has 6 MA's), (258, 37696), (262, 37702), (271, 37726), (282, 37747), (287, 37762), (303, 37804), (313, 37828), (340, 37858), (381, 37942), (399, 38005), (409, 38035), (500, 38227),

Gene: Birdsong_27 Start: 21231, Stop: 21854, Start Num: 195

Candidate Starts for Birdsong_27:

(42, 20856), (52, 20913), (62, 20958), (78, 21012), (80, 21015), (94, 21051), (Start: 112 @21096 has 1 MA's), (113, 21099), (Start: 195 @21231 has 27 MA's), (Start: 200 @21237 has 2 MA's), (217, 21267), (224, 21282), (254, 21342), (290, 21417), (309, 21462), (332, 21498), (349, 21534), (380, 21597), (399, 21660), (406, 21681), (409, 21690), (444, 21747), (500, 21822), (506, 21831),

Gene: BirthdayBoy_89 Start: 59230, Stop: 60081, Start Num: 152

Candidate Starts for BirthdayBoy_89:

(139, 59206), (140, 59209), (Start: 147 @59218 has 1 MA's), (Start: 152 @59230 has 27 MA's), (Start: 158 @59239 has 1 MA's), (Start: 171 @59260 has 34 MA's), (201, 59302), (205, 59308), (228, 59353), (275, 59458), (280, 59467), (289, 59494), (293, 59506), (309, 59545), (392, 59725), (416, 59800), (430, 59830), (454, 59878), (456, 59881), (478, 59935), (496, 59980), (533, 60058),

Gene: Bizzy_46 Start: 39563, Stop: 40306, Start Num: 156

Candidate Starts for Bizzy_46:

(Start: 156 @39563 has 75 MA's), (Start: 167 @39581 has 3 MA's), (197, 39626), (225, 39671), (265, 39746), (274, 39764), (291, 39806), (360, 39926), (363, 39938), (412, 40058), (427, 40094), (431, 40106), (446, 40133), (467, 40166), (483, 40199), (501, 40232), (517, 40259),

Gene: Bjaner7_24 Start: 19791, Stop: 20498, Start Num: 177

Candidate Starts for Bjaner7_24:

(98, 19647), (Start: 177 @19791 has 45 MA's), (211, 19848), (231, 19887), (258, 19947), (266, 19965), (267, 19968), (276, 19986), (291, 20022), (292, 20025), (305, 20058), (313, 20076), (339, 20103), (370, 20181), (399, 20250), (409, 20280), (411, 20286), (510, 20490),

Gene: BlingBling_25 Start: 21152, Stop: 21955, Start Num: 156

Candidate Starts for BlingBling_25:

(Start: 156 @21152 has 75 MA's), (Start: 184 @21200 has 1 MA's), (Start: 196 @21212 has 1 MA's), (207, 21227), (225, 21263), (268, 21356), (291, 21407), (315, 21464), (319, 21467), (330, 21485), (337, 21497), (339, 21500), (340, 21503), (410, 21680), (423, 21701), (425, 21707), (506, 21863), (527, 21899), (536, 21923), (547, 21944),

Gene: Blino_26 Start: 21252, Stop: 22046, Start Num: 155

Candidate Starts for Blino_26:

(24, 20859), (48, 20988), (77, 21099), (89, 21126), (103, 21162), (Start: 155 @21252 has 22 MA's), (Start: 184 @21294 has 1 MA's), (Start: 196 @21306 has 1 MA's), (225, 21357), (268, 21450), (277, 21462), (290, 21498), (291, 21501), (310, 21549), (315, 21558), (319, 21561), (330, 21579), (337, 21591), (339, 21594), (340, 21597), (410, 21774), (423, 21795), (425, 21801), (441, 21837), (527, 21993), (536, 22017), (547, 22035),

Gene: Blueberry_27 Start: 21464, Stop: 22264, Start Num: 156

Candidate Starts for Blueberry_27:

(82, 21314), (Start: 156 @21464 has 75 MA's), (Start: 184 @21512 has 1 MA's), (Start: 196 @21524 has 1 MA's), (225, 21575), (268, 21668), (291, 21719), (315, 21776), (319, 21779), (330, 21797), (337, 21809), (339, 21812), (340, 21815), (410, 21992), (423, 22013), (425, 22019), (441, 22055), (497, 22160), (506, 22175), (507, 22178), (527, 22211), (536, 22235),

Gene: BluerMoon_33 Start: 22314, Stop: 23105, Start Num: 171

Candidate Starts for BluerMoon_33:

(Start: 171 @22314 has 34 MA's), (197, 22359), (215, 22389), (220, 22401), (242, 22455), (337, 22644), (408, 22833), (409, 22836), (440, 22911),

Gene: BobBob_43 Start: 39142, Stop: 39876, Start Num: 156

Candidate Starts for BobBob_43:

(82, 38995), (Start: 120 @39085 has 3 MA's), (Start: 156 @39142 has 75 MA's), (Start: 167 @39160 has 3 MA's), (225, 39247), (237, 39274), (265, 39322), (274, 39340), (291, 39382), (335, 39460), (360, 39502), (375, 39535), (427, 39670), (446, 39709), (501, 39808), (517, 39835), (534, 39868),

Gene: Bonum_21 Start: 9448, Stop: 10239, Start Num: 124

Candidate Starts for Bonum_21:

(Start: 124 @9448 has 8 MA's), (Start: 156 @9493 has 75 MA's), (Start: 196 @9556 has 1 MA's), (205, 9568), (Start: 208 @9574 has 1 MA's), (216, 9589), (231, 9613), (234, 9622), (257, 9670), (276, 9706), (331, 9817), (341, 9838), (351, 9859), (475, 10144), (487, 10165), (489, 10174), (493, 10180), (508, 10213),

Gene: Bosnia_25 Start: 22309, Stop: 22926, Start Num: 189

Candidate Starts for Bosnia_25:

(121, 22210), (153, 22249), (Start: 174 @22282 has 6 MA's), (Start: 189 @22309 has 20 MA's), (Start: 200 @22318 has 2 MA's), (224, 22360), (231, 22372), (254, 22420), (266, 22441), (276, 22462), (290, 22495), (292, 22498), (309, 22540), (332, 22576), (356, 22627), (380, 22675), (399, 22738), (409, 22768), (437, 22819), (500, 22897),

Gene: Bowser_26 Start: 21340, Stop: 22053, Start Num: 177

Candidate Starts for Bowser_26:

(Start: 142 @21283 has 1 MA's), (Start: 177 @21340 has 45 MA's), (217, 21406), (231, 21433), (235, 21448), (253, 21484), (258, 21493), (282, 21544), (292, 21571), (302, 21595), (342, 21658), (346, 21667), (368, 21724), (385, 21742), (405, 21817), (409, 21829), (411, 21835), (476, 21970),

Gene: BoyNamedSue_26 Start: 22182, Stop: 22802, Start Num: 190

Candidate Starts for BoyNamedSue_26:

(39, 21807), (78, 21978), (80, 21981), (Start: 112 @22062 has 1 MA's), (121, 22083), (Start: 190 @22182 has 15 MA's), (Start: 200 @22191 has 2 MA's), (224, 22236), (266, 22317), (290, 22371), (309, 22416), (332, 22452), (356, 22503), (380, 22551), (399, 22614), (409, 22644), (437, 22695), (500, 22773),

Gene: Bradissa_27 Start: 22057, Stop: 22773, Start Num: 173

Candidate Starts for Bradissa_27:

(Start: 156 @22030 has 75 MA's), (Start: 158 @22033 has 1 MA's), (Start: 173 @22057 has 16 MA's), (185, 22075), (217, 22129), (258, 22213), (276, 22252), (291, 22288), (302, 22315), (339, 22369), (346, 22387), (388, 22480), (409, 22558), (411, 22564), (500, 22741), (509, 22759),

Gene: Brandonk123_47 Start: 40277, Stop: 41011, Start Num: 156

Candidate Starts for Brandonk123_47:

(82, 40130), (Start: 120 @40220 has 3 MA's), (Start: 156 @40277 has 75 MA's), (Start: 167 @40295 has 3 MA's), (225, 40382), (237, 40409), (265, 40457), (274, 40475), (291, 40517), (335, 40595), (360,

40637), (427, 40805), (446, 40844), (501, 40943), (517, 40970), (534, 41003),

Gene: Braxoaddie_20 Start: 9976, Stop: 10872, Start Num: 131

Candidate Starts for Braxoaddie_20:

(46, 9739), (Start: 131 @9976 has 6 MA's), (178, 10054), (227, 10141), (244, 10189), (254, 10204), (295, 10282), (312, 10327), (385, 10459), (412, 10552), (420, 10567), (471, 10666), (503, 10747), (527, 10795), (545, 10840),

Gene: BritBrat_27 Start: 21883, Stop: 22626, Start Num: 156

Candidate Starts for BritBrat_27:

(Start: 156 @21883 has 75 MA's), (Start: 158 @21886 has 1 MA's), (Start: 173 @21910 has 16 MA's), (185, 21928), (217, 21982), (258, 22066), (276, 22105), (291, 22141), (302, 22168), (339, 22222), (346, 22240), (388, 22333), (409, 22411), (411, 22417), (500, 22594), (509, 22612),

Gene: Budski_28 Start: 21606, Stop: 22229, Start Num: 195

Candidate Starts for Budski_28:

(42, 21231), (52, 21288), (62, 21333), (78, 21387), (80, 21390), (94, 21426), (Start: 112 @21471 has 1 MA's), (113, 21474), (Start: 195 @21606 has 27 MA's), (Start: 200 @21612 has 2 MA's), (217, 21642), (224, 21657), (254, 21717), (293, 21798), (309, 21837), (349, 21909), (380, 21972), (395, 22017), (399, 22035), (406, 22056), (409, 22065), (500, 22197), (506, 22206), (510, 22218),

Gene: Buggaboo_20 Start: 8964, Stop: 9755, Start Num: 124

Candidate Starts for Buggaboo_20:

(Start: 124 @8964 has 8 MA's), (127, 8973), (Start: 156 @9009 has 75 MA's), (Start: 196 @9072 has 1 MA's), (Start: 208 @9090 has 1 MA's), (216, 9105), (231, 9129), (234, 9138), (257, 9186), (276, 9222), (331, 9333), (351, 9375), (475, 9660), (487, 9681), (489, 9690), (493, 9696), (508, 9729),

Gene: Bunker_26 Start: 21542, Stop: 22261, Start Num: 177

Candidate Starts for Bunker_26:

(72, 21332), (87, 21362), (Start: 142 @21485 has 1 MA's), (Start: 177 @21542 has 45 MA's), (231, 21635), (235, 21650), (258, 21695), (282, 21746), (292, 21773), (302, 21797), (342, 21860), (346, 21869), (409, 22031), (411, 22037),

Gene: Bunnybear_24 Start: 22229, Stop: 23020, Start Num: 156

Candidate Starts for Bunnybear_24:

(Start: 156 @22229 has 75 MA's), (Start: 184 @22277 has 1 MA's), (Start: 196 @22289 has 1 MA's), (225, 22340), (268, 22433), (291, 22484), (309, 22529), (310, 22532), (319, 22544), (340, 22580), (410, 22757), (423, 22778), (441, 22820), (527, 22976),

Gene: Burley_30 Start: 22058, Stop: 22846, Start Num: 171

Candidate Starts for Burley_30:

(Start: 171 @22058 has 34 MA's), (197, 22103), (215, 22133), (220, 22145), (242, 22199), (269, 22250), (310, 22346), (322, 22364), (330, 22376), (333, 22382), (337, 22388), (408, 22577), (409, 22580), (440, 22655), (506, 22802),

Gene: Cafasso_33 Start: 27845, Stop: 28597, Start Num: 160

Candidate Starts for Cafasso_33:

(Start: 160 @27845 has 5 MA's), (Start: 196 @27896 has 1 MA's), (291, 28073), (349, 28172), (387, 28232), (410, 28310), (441, 28373), (472, 28436), (488, 28463), (543, 28565),

Gene: CaiB_45 Start: 37553, Stop: 38275, Start Num: 177

Candidate Starts for CaiB_45:

(85, 37367), (Start: 177 @37553 has 45 MA's), (229, 37646), (262, 37715), (273, 37742), (277, 37748), (339, 37862), (381, 37946), (409, 38039), (423, 38069),

Gene: Camerico_44 Start: 44895, Stop: 45653, Start Num: 176

Candidate Starts for Camerico_44:

(Start: 173 @44889 has 16 MA's), (Start: 176 @44895 has 2 MA's), (212, 44952), (275, 45090), (284, 45111), (289, 45126), (291, 45132), (293, 45138), (344, 45228), (403, 45387), (428, 45450), (430, 45456), (461, 45513), (477, 45555), (496, 45603),

Gene: CaptainKirk2_25 Start: 21173, Stop: 21976, Start Num: 156

Candidate Starts for CaptainKirk2_25:

(Start: 156 @21173 has 75 MA's), (Start: 184 @21221 has 1 MA's), (Start: 196 @21233 has 1 MA's), (207, 21248), (225, 21284), (268, 21377), (291, 21428), (315, 21485), (319, 21488), (330, 21506), (337, 21518), (339, 21521), (340, 21524), (410, 21701), (423, 21722), (425, 21728), (506, 21884), (527, 21920), (536, 21944), (547, 21965),

Gene: Captrips_29 Start: 19354, Stop: 20139, Start Num: 171

Candidate Starts for Captrips_29:

(Start: 171 @19354 has 34 MA's), (197, 19399), (242, 19495), (246, 19501), (309, 19639), (330, 19672), (337, 19684), (408, 19873), (409, 19876), (440, 19951), (506, 20098),

Gene: Capybara_27 Start: 19428, Stop: 20213, Start Num: 171

Candidate Starts for Capybara_27:

(Start: 171 @19428 has 34 MA's), (Start: 179 @19443 has 5 MA's), (Start: 208 @19491 has 1 MA's), (225, 19524), (242, 19569), (246, 19575), (309, 19713), (330, 19746), (337, 19758), (408, 19947), (409, 19950), (440, 20025), (452, 20052), (506, 20172),

Gene: CarolAnn_26 Start: 21251, Stop: 22045, Start Num: 155

Candidate Starts for CarolAnn_26:

(24, 20858), (48, 20987), (77, 21098), (89, 21125), (103, 21161), (Start: 155 @21251 has 22 MA's), (Start: 184 @21293 has 1 MA's), (Start: 196 @21305 has 1 MA's), (225, 21356), (268, 21449), (277, 21461), (290, 21497), (291, 21500), (310, 21548), (315, 21557), (319, 21560), (330, 21578), (337, 21590), (339, 21593), (340, 21596), (410, 21773), (423, 21794), (425, 21800), (441, 21836), (527, 21992), (536, 22016), (547, 22034),

Gene: Cashline_26 Start: 21658, Stop: 22278, Start Num: 189

Candidate Starts for Cashline_26:

(Start: 189 @21658 has 20 MA's), (Start: 200 @21664 has 2 MA's), (217, 21694), (224, 21709), (239, 21745), (266, 21790), (290, 21844), (309, 21889), (349, 21961), (356, 21976), (380, 22024), (390, 22045), (399, 22087), (437, 22168), (500, 22246), (506, 22255), (507, 22258),

Gene: ChadMasterC_46 Start: 41422, Stop: 42156, Start Num: 156

Candidate Starts for ChadMasterC_46:

(82, 41275), (Start: 120 @41365 has 3 MA's), (Start: 156 @41422 has 75 MA's), (Start: 167 @41440 has 3 MA's), (225, 41527), (237, 41554), (265, 41602), (274, 41620), (291, 41662), (335, 41740), (360, 41782), (375, 41815), (427, 41950), (446, 41989), (501, 42088), (517, 42115), (534, 42148),

Gene: CharlottesWeb_42 Start: 35092, Stop: 35814, Start Num: 177

Candidate Starts for CharlottesWeb_42:

(20, 34510), (Start: 177 @35092 has 45 MA's), (258, 35248), (262, 35254), (282, 35299), (305, 35362), (309, 35371), (313, 35380), (339, 35407), (340, 35410), (399, 35557), (409, 35587), (411, 35593), (468, 35704), (477, 35728), (500, 35779), (508, 35794),

Gene: Charming_46 Start: 39778, Stop: 40512, Start Num: 156

Candidate Starts for Charming_46:

(82, 39631), (Start: 120 @39721 has 3 MA's), (Start: 156 @39778 has 75 MA's), (Start: 167 @39796 has 3 MA's), (225, 39883), (237, 39910), (265, 39958), (274, 39976), (291, 40018), (335, 40096), (360, 40138), (375, 40171), (427, 40306), (446, 40345), (501, 40444), (517, 40471), (534, 40504),

Gene: CheeseTouch_28 Start: 21492, Stop: 22115, Start Num: 195

Candidate Starts for CheeseTouch_28:

(42, 21117), (52, 21174), (62, 21219), (78, 21273), (80, 21276), (94, 21312), (Start: 112 @21357 has 1 MA's), (113, 21360), (Start: 195 @21492 has 27 MA's), (Start: 200 @21498 has 2 MA's), (217, 21528), (224, 21543), (254, 21603), (293, 21684), (309, 21723), (349, 21795), (380, 21858), (395, 21903), (399, 21921), (406, 21942), (409, 21951), (500, 22083), (506, 22092), (510, 22104),

Gene: Chidiebere_31 Start: 21568, Stop: 22266, Start Num: 119

Candidate Starts for Chidiebere_31:

(Start: 112 @21550 has 1 MA's), (Start: 119 @21568 has 26 MA's), (Start: 208 @21631 has 1 MA's), (227, 21667), (259, 21727), (266, 21739), (276, 21760), (290, 21793), (303, 21823), (304, 21826), (313, 21847), (320, 21853), (323, 21859), (336, 21880), (385, 21985), (388, 21994), (406, 22063), (408, 22069), (427, 22105), (431, 22117), (475, 22156), (487, 22177), (516, 22246), (525, 22258), (526, 22261),

Gene: Chikenjars_30 Start: 22310, Stop: 23098, Start Num: 171

Candidate Starts for Chikenjars_30:

(Start: 171 @22310 has 34 MA's), (197, 22355), (215, 22385), (220, 22397), (242, 22451), (310, 22598), (333, 22634), (337, 22640), (408, 22829), (409, 22832), (429, 22889), (440, 22907), (452, 22934), (506, 23054),

Gene: ChisanaKitsune_27 Start: 20220, Stop: 20918, Start Num: 119

Candidate Starts for ChisanaKitsune_27:

(66, 20082), (67, 20088), (73, 20109), (79, 20121), (92, 20154), (97, 20166), (Start: 119 @20220 has 26 MA's), (Start: 208 @20283 has 1 MA's), (266, 20391), (276, 20412), (290, 20445), (303, 20475), (304, 20478), (313, 20499), (320, 20505), (323, 20511), (336, 20532), (385, 20637), (388, 20646), (406, 20715), (408, 20721), (427, 20757), (431, 20769), (475, 20808), (516, 20898), (525, 20910), (526, 20913),

Gene: ClamChowder_46 Start: 36471, Stop: 37226, Start Num: 150

Candidate Starts for ClamChowder_46:

(140, 36456), (Start: 150 @36471 has 18 MA's), (206, 36543), (225, 36579), (266, 36651), (376, 36846), (382, 36852), (392, 36879), (405, 36927), (455, 37029), (505, 37113), (540, 37185),

Gene: Clap_24 Start: 19798, Stop: 20505, Start Num: 177

Candidate Starts for Clap_24:

(98, 19654), (Start: 177 @19798 has 45 MA's), (211, 19855), (231, 19894), (253, 19945), (258, 19954), (266, 19972), (267, 19975), (291, 20029), (292, 20032), (305, 20065), (313, 20083), (339, 20110), (370, 20188), (399, 20257), (401, 20263), (409, 20287), (411, 20293), (510, 20497),

Gene: Clark_25 Start: 21234, Stop: 22034, Start Num: 146

Candidate Starts for Clark_25:

(Start: 146 @21234 has 2 MA's), (Start: 155 @21246 has 22 MA's), (Start: 167 @21258 has 3 MA's), (169, 21261), (Start: 184 @21288 has 1 MA's), (Start: 196 @21300 has 1 MA's), (225, 21351), (268, 21444), (289, 21489), (290, 21492), (291, 21495), (319, 21555), (330, 21573), (337, 21585), (339, 21588), (340, 21591), (385, 21681), (410, 21768), (527, 21990), (536, 22014),

Gene: CloverMinnie_45 Start: 37493, Stop: 38215, Start Num: 177

Candidate Starts for CloverMinnie_45:

(85, 37307), (Start: 177 @37493 has 45 MA's), (229, 37586), (262, 37655), (273, 37682), (277, 37688), (315, 37778), (381, 37886), (387, 37898), (399, 37949), (409, 37979), (423, 38009), (427, 38024),

Gene: Clown_50 Start: 38569, Stop: 39336, Start Num: 151

Candidate Starts for Clown_50:

(Start: 151 @38569 has 15 MA's), (Start: 167 @38584 has 3 MA's), (Start: 173 @38593 has 16 MA's), (Start: 196 @38626 has 1 MA's), (206, 38638), (212, 38647), (221, 38668), (236, 38701), (263, 38737), (266, 38746), (279, 38767), (290, 38800), (339, 38881), (340, 38884), (368, 38932), (376, 38941), (392, 38974), (399, 39004), (405, 39022), (423, 39055), (428, 39073), (431, 39082), (464, 39139), (490, 39187), (494, 39193), (537, 39289),

Gene: CoffeeBean_20 Start: 9913, Stop: 10809, Start Num: 131

Candidate Starts for CoffeeBean_20:

(Start: 131 @9913 has 6 MA's), (178, 9991), (227, 10078), (244, 10126), (254, 10141), (295, 10219), (312, 10264), (385, 10396), (412, 10489), (420, 10504), (471, 10603), (503, 10684), (527, 10732), (545, 10777),

Gene: Commandaria_20 Start: 9068, Stop: 9796, Start Num: 119

Candidate Starts for Commandaria_20:

(Start: 119 @9068 has 26 MA's), (172, 9125), (225, 9158), (235, 9179), (257, 9221), (390, 9497), (401, 9545), (406, 9560), (487, 9707), (504, 9749),

Gene: Confidence_26 Start: 21821, Stop: 22441, Start Num: 189

Candidate Starts for Confidence_26:

(Start: 189 @21821 has 20 MA's), (Start: 200 @21827 has 2 MA's), (224, 21872), (239, 21908), (266, 21953), (290, 22007), (309, 22052), (349, 22124), (380, 22187), (399, 22250), (437, 22331), (500, 22409), (506, 22418), (507, 22421),

Gene: Conley_28 Start: 20413, Stop: 21198, Start Num: 171

Candidate Starts for Conley_28:

(Start: 171 @20413 has 34 MA's), (220, 20500), (225, 20509), (235, 20536), (242, 20554), (246, 20560), (249, 20563), (309, 20698), (330, 20731), (337, 20743), (408, 20932), (409, 20935), (440, 21010), (450, 21028), (506, 21157),

Gene: Coriander_27 Start: 22642, Stop: 23235, Start Num: 235

Candidate Starts for Coriander_27:

(Start: 174 @22534 has 6 MA's), (231, 22627), (235, 22642), (258, 22687), (271, 22717), (291, 22762), (302, 22789), (303, 22792), (339, 22843), (346, 22861), (388, 22942), (409, 23020), (411, 23026), (428, 23068), (431, 23077), (476, 23149), (506, 23212),

Gene: Crater_26 Start: 21059, Stop: 21682, Start Num: 195

Candidate Starts for Crater_26:

(42, 20684), (52, 20741), (62, 20786), (78, 20840), (80, 20843), (94, 20879), (Start: 112 @20924 has 1 MA's), (113, 20927), (Start: 195 @21059 has 27 MA's), (Start: 200 @21065 has 2 MA's), (217, 21095), (224, 21110), (254, 21170), (293, 21251), (309, 21290), (349, 21362), (380, 21425), (395, 21470), (399, 21488), (406, 21509), (409, 21518), (500, 21650), (506, 21659), (510, 21671),

Gene: Crocheter_30 Start: 22450, Stop: 23238, Start Num: 171

Candidate Starts for Crocheter_30:

(Start: 171 @22450 has 34 MA's), (197, 22495), (215, 22525), (220, 22537), (242, 22591), (246, 22597), (269, 22642), (310, 22738), (322, 22756), (327, 22765), (337, 22780), (408, 22969), (409, 22972), (414, 22987), (440, 23047), (452, 23074), (506, 23194),

Gene: Cynthia_24 Start: 19798, Stop: 20505, Start Num: 177

Candidate Starts for Cynthia_24:

(98, 19654), (Start: 177 @19798 has 45 MA's), (211, 19855), (231, 19894), (253, 19945), (258, 19954), (266, 19972), (267, 19975), (291, 20029), (292, 20032), (305, 20065), (313, 20083), (339, 20110), (370, 20188), (399, 20257), (401, 20263), (409, 20287), (411, 20293), (510, 20497),

Gene: DalanDe_26 Start: 21686, Stop: 22381, Start Num: 119

Candidate Starts for DalanDe_26:

(Start: 119 @21686 has 26 MA's), (Start: 208 @21746 has 1 MA's), (233, 21791), (266, 21854), (276, 21875), (290, 21908), (304, 21941), (356, 22040), (370, 22076), (385, 22100), (388, 22109), (399, 22157), (403, 22169), (406, 22178), (427, 22220), (475, 22271), (515, 22358),

Gene: Dalilpop_23 Start: 10164, Stop: 10931, Start Num: 119

Candidate Starts for Dalilpop_23:

(Start: 119 @10164 has 26 MA's), (130, 10179), (186, 10233), (Start: 208 @10269 has 1 MA's), (210, 10272), (235, 10323), (257, 10365), (365, 10593), (386, 10629), (417, 10731), (482, 10842), (487, 10848), (508, 10896), (511, 10902),

Gene: Danyall_46 Start: 36172, Stop: 36927, Start Num: 151

Candidate Starts for Danyall_46:

(100, 36076), (Start: 151 @36172 has 15 MA's), (206, 36244), (225, 36280), (266, 36352), (275, 36367), (376, 36547), (382, 36553), (392, 36580), (455, 36730), (505, 36814), (540, 36886),

Gene: Daredevil_123 Start: 74384, Stop: 75109, Start Num: 156

Candidate Starts for Daredevil_123:

(Start: 156 @74384 has 75 MA's), (307, 74663), (346, 74720), (412, 74885), (438, 74936), (445, 74948), (464, 74984), (499, 75047),

Gene: DatBoi_128 Start: 77112, Stop: 77834, Start Num: 159

Candidate Starts for DatBoi_128:

(81, 76950), (89, 76968), (104, 77007), (126, 77061), (Start: 159 @77112 has 16 MA's), (192, 77169), (243, 77268), (291, 77346),

Gene: Delian_25 Start: 21173, Stop: 21976, Start Num: 156

Candidate Starts for Delian_25:

(Start: 156 @21173 has 75 MA's), (Start: 184 @21221 has 1 MA's), (Start: 196 @21233 has 1 MA's), (207, 21248), (225, 21284), (268, 21377), (291, 21428), (315, 21485), (319, 21488), (330, 21506), (337, 21518), (339, 21521), (340, 21524), (410, 21701), (423, 21722), (425, 21728), (506, 21884), (527, 21920), (536, 21944), (547, 21965),

Gene: Delrey21_46 Start: 41437, Stop: 42174, Start Num: 150

Candidate Starts for Delrey21_46:

(16, 40798), (22, 40969), (23, 41011), (47, 41152), (Start: 146 @41428 has 2 MA's), (Start: 150 @41437 has 18 MA's), (Start: 154 @41443 has 1 MA's), (Start: 159 @41452 has 16 MA's), (215, 41536), (225, 41557), (231, 41566), (260, 41605), (265, 41617), (274, 41635), (291, 41677), (333, 41749), (337, 41755), (397, 41881), (410, 41920), (423, 41941), (427, 41956), (441, 41983), (521, 42130),

Gene: Denise_22 Start: 18886, Stop: 19509, Start Num: 195

Candidate Starts for Denise_22:

(Start: 195 @18886 has 27 MA's), (Start: 200 @18892 has 2 MA's), (217, 18922), (224, 18937), (254, 18997), (266, 19018), (276, 19039), (349, 19189), (380, 19252), (399, 19315), (406, 19336), (409, 19345), (500, 19477), (504, 19483), (510, 19498), (512, 19501),

Gene: Derg_43 Start: 39155, Stop: 39898, Start Num: 156

Candidate Starts for Derg_43:

(Start: 156 @39155 has 75 MA's), (Start: 167 @39173 has 3 MA's), (197, 39218), (225, 39263), (265, 39338), (274, 39356), (291, 39398), (360, 39518), (363, 39530), (412, 39650), (427, 39686), (431, 39698), (446, 39725), (467, 39758), (483, 39791), (501, 39824), (517, 39851),

Gene: DirtyBoi_28 Start: 22441, Stop: 23142, Start Num: 174

Candidate Starts for DirtyBoi_28:

(Start: 174 @22441 has 6 MA's), (187, 22459), (231, 22534), (235, 22549), (271, 22624), (302, 22696), (313, 22723), (339, 22750), (342, 22759), (346, 22768), (386, 22843), (388, 22849), (409, 22927), (411, 22933), (476, 23056), (506, 23119),

Gene: Dmitri_27 Start: 22590, Stop: 23291, Start Num: 174

Candidate Starts for Dmitri_27:

(25, 22158), (26, 22161), (33, 22197), (38, 22218), (43, 22245), (45, 22257), (53, 22299), (84, 22407), (Start: 174 @22590 has 6 MA's), (187, 22608), (231, 22683), (235, 22698), (271, 22773), (282, 22794), (290, 22815), (302, 22845), (313, 22872), (339, 22899), (342, 22908), (346, 22917), (388, 22998), (399, 23046), (409, 23076), (411, 23082), (506, 23268),

Gene: DobbysSock_24 Start: 20720, Stop: 21508, Start Num: 155

Candidate Starts for DobbysSock_24:

(Start: 146 @20708 has 2 MA's), (Start: 155 @20720 has 22 MA's), (Start: 167 @20732 has 3 MA's), (169, 20735), (Start: 184 @20762 has 1 MA's), (Start: 196 @20774 has 1 MA's), (225, 20825), (268, 20918), (289, 20963), (290, 20966), (291, 20969), (319, 21029), (330, 21047), (337, 21059), (339, 21062), (340, 21065), (385, 21155), (410, 21242), (497, 21410), (507, 21428), (527, 21464), (536, 21488),

Gene: DoctorFroggo_46 Start: 41437, Stop: 42174, Start Num: 150

Candidate Starts for DoctorFroggo_46:

(16, 40798), (22, 40969), (23, 41011), (47, 41152), (Start: 146 @41428 has 2 MA's), (Start: 150 @41437 has 18 MA's), (Start: 154 @41443 has 1 MA's), (Start: 159 @41452 has 16 MA's), (215, 41536), (225, 41557), (231, 41566), (260, 41605), (265, 41617), (274, 41635), (291, 41677), (333, 41749), (337, 41755), (397, 41881), (410, 41920), (423, 41941), (427, 41956), (441, 41983), (521, 42130),

Gene: Dogfish_46 Start: 35376, Stop: 36182, Start Num: 152

Candidate Starts for Dogfish_46:

(Start: 152 @35376 has 27 MA's), (Start: 196 @35439 has 1 MA's), (259, 35562), (371, 35817), (399, 35898), (402, 35907), (410, 35928), (413, 35934), (437, 35985), (470, 36039), (497, 36096), (506, 36111), (532, 36159),

Gene: Doggs_26 Start: 22233, Stop: 22934, Start Num: 174

Candidate Starts for Doggs_26:

(Start: 174 @22233 has 6 MA's), (231, 22326), (235, 22341), (258, 22386), (271, 22416), (291, 22461), (302, 22488), (303, 22491), (339, 22542), (346, 22560), (388, 22641), (409, 22719), (411, 22725), (428, 22767), (431, 22776), (476, 22848), (506, 22911),

Gene: Dolores_25 Start: 21222, Stop: 22010, Start Num: 155

Candidate Starts for Dolores_25:

(Start: 146 @21210 has 2 MA's), (Start: 155 @21222 has 22 MA's), (Start: 167 @21234 has 3 MA's), (169, 21237), (Start: 184 @21264 has 1 MA's), (Start: 196 @21276 has 1 MA's), (225, 21327), (268, 21420), (289, 21465), (290, 21468), (291, 21471), (319, 21531), (330, 21549), (337, 21561), (339, 21564), (340, 21567), (385, 21657), (410, 21744), (527, 21966), (536, 21990),

Gene: DonkeyMan_49 Start: 33281, Stop: 34132, Start Num: 128

Candidate Starts for DonkeyMan_49:

(111, 33245), (114, 33251), (Start: 128 @33281 has 5 MA's), (233, 33464), (332, 33662), (347, 33695), (381, 33770), (388, 33785), (409, 33863), (458, 33974), (460, 33977), (462, 33983), (476, 34019), (489, 34046), (519, 34121),

Gene: DoobyDoo_84 Start: 57557, Stop: 58408, Start Num: 152

Candidate Starts for DoobyDoo_84:

(70, 57380), (83, 57407), (88, 57416), (91, 57431), (96, 57440), (139, 57533), (140, 57536), (Start: 152 @57557 has 27 MA's), (Start: 158 @57566 has 1 MA's), (Start: 171 @57587 has 34 MA's), (201, 57629), (205, 57635), (228, 57680), (275, 57785), (280, 57794), (289, 57821), (293, 57833), (309, 57872), (392, 58052), (412, 58118), (416, 58127), (430, 58157), (444, 58184), (456, 58208), (478, 58262), (496, 58307), (502, 58319), (533, 58385),

Gene: Dorin_10 Start: 5894, Stop: 5211, Start Num: 199

Candidate Starts for Dorin_10:

(199, 5894), (Start: 204 @5888 has 3 MA's), (210, 5876), (228, 5840), (234, 5825), (236, 5816), (326, 5615), (338, 5597), (353, 5561), (364, 5531), (408, 5417), (414, 5399), (441, 5348), (444, 5339), (454, 5318), (461, 5306), (466, 5297), (491, 5237),

Gene: Dorito_24 Start: 20676, Stop: 21473, Start Num: 146

Candidate Starts for Dorito_24:

(76, 20526), (Start: 146 @20676 has 2 MA's), (Start: 152 @20685 has 27 MA's), (Start: 167 @20697 has 3 MA's), (169, 20700), (Start: 184 @20727 has 1 MA's), (Start: 196 @20739 has 1 MA's), (225, 20790), (268, 20883), (289, 20928), (290, 20931), (291, 20934), (292, 20937), (319, 20994), (330, 21012), (339, 21027), (340, 21030), (376, 21108), (385, 21120), (392, 21147), (410, 21207), (427, 21243), (497, 21375), (507, 21393), (527, 21429), (542, 21465),

Gene: Duffington_30 Start: 22295, Stop: 23083, Start Num: 171

Candidate Starts for Duffington_30:

(Start: 171 @22295 has 34 MA's), (197, 22340), (215, 22370), (220, 22382), (242, 22436), (310, 22583), (327, 22610), (337, 22625), (369, 22709), (408, 22814), (409, 22817), (440, 22892), (506, 23039),

Gene: DumpTruck_89 Start: 58754, Stop: 59617, Start Num: 142

Candidate Starts for DumpTruck_89:

(Start: 134 @58742 has 1 MA's), (Start: 142 @58754 has 1 MA's), (Start: 151 @58772 has 15 MA's), (Start: 165 @58784 has 1 MA's), (Start: 171 @58793 has 34 MA's), (201, 58835), (255, 58943), (289, 59024), (293, 59036), (346, 59141), (355, 59162), (358, 59168), (359, 59171), (392, 59255), (435, 59369), (444, 59387), (454, 59408), (488, 59483), (511, 59540),

Gene: DumpsterDude_29 Start: 25886, Stop: 26689, Start Num: 154

Candidate Starts for DumpsterDude_29:

(Start: 154 @25886 has 1 MA's), (Start: 167 @25907 has 3 MA's), (Start: 184 @25937 has 1 MA's), (Start: 196 @25949 has 1 MA's), (207, 25964), (225, 26000), (268, 26093), (291, 26144), (310, 26192), (319, 26204), (330, 26222), (337, 26234), (339, 26237), (340, 26240), (356, 26273), (410, 26417), (423, 26438), (439, 26477), (497, 26585), (527, 26636), (536, 26660),

Gene: E3_gp85 Start: 47322, Stop: 46429, Start Num: 117

Candidate Starts for E3_gp85:

(117, 47322), (Start: 131 @47307 has 6 MA's), (137, 47298), (169, 47247), (Start: 179 @47229 has 5 MA's), (Start: 189 @47214 has 20 MA's), (203, 47193), (252, 47088), (261, 47079), (280, 47052), (290, 47022), (296, 47007), (299, 46998), (308, 46974), (314, 46962), (364, 46857), (374, 46830), (385, 46815), (389, 46803), (393, 46785), (409, 46728), (433, 46668), (474, 46587), (522, 46500), (535, 46470), (544, 46449),

Gene: EMoore_42 Start: 39517, Stop: 40245, Start Num: 156

Candidate Starts for EMoore_42:

(Start: 151 @39511 has 15 MA's), (Start: 156 @39517 has 75 MA's), (Start: 196 @39574 has 1 MA's), (219, 39613), (225, 39625), (265, 39685), (335, 39820), (337, 39823), (377, 39898), (388, 39913), (410, 39991), (431, 40039), (446, 40066), (481, 40129), (524, 40204), (531, 40219),

Gene: EMSquaredA_27 Start: 21910, Stop: 22626, Start Num: 173

Candidate Starts for EMSquaredA_27:

(Start: 156 @21883 has 75 MA's), (Start: 158 @21886 has 1 MA's), (Start: 173 @21910 has 16 MA's), (185, 21928), (217, 21982), (258, 22066), (276, 22105), (291, 22141), (302, 22168), (339, 22222), (346, 22240), (388, 22333), (409, 22411), (411, 22417), (500, 22594), (509, 22612),

Gene: Easley_25 Start: 21244, Stop: 22020, Start Num: 167

Candidate Starts for Easley_25:

(Start: 146 @21220 has 2 MA's), (Start: 155 @21232 has 22 MA's), (Start: 167 @21244 has 3 MA's), (169, 21247), (Start: 184 @21274 has 1 MA's), (Start: 196 @21286 has 1 MA's), (225, 21337), (268, 21430), (289, 21475), (290, 21478), (291, 21481), (319, 21541), (330, 21559), (337, 21571), (339, 21574), (340, 21577), (385, 21667), (410, 21754), (527, 21976), (536, 22000),

Gene: Ebert_24 Start: 19798, Stop: 20505, Start Num: 177

Candidate Starts for Ebert_24:

(98, 19654), (Start: 177 @19798 has 45 MA's), (211, 19855), (231, 19894), (253, 19945), (258, 19954), (266, 19972), (267, 19975), (291, 20029), (292, 20032), (305, 20065), (313, 20083), (339, 20110), (370, 20188), (399, 20257), (401, 20263), (409, 20287), (411, 20293), (510, 20497),

Gene: Ecliptus_31 Start: 23080, Stop: 23703, Start Num: 195

Candidate Starts for Ecliptus_31:

(Start: 195 @23080 has 27 MA's), (Start: 200 @23086 has 2 MA's), (217, 23116), (224, 23131), (309, 23311), (349, 23383), (369, 23434), (380, 23446), (395, 23491), (399, 23509), (406, 23530), (409, 23539), (500, 23671),

Gene: Eddiemania_31 Start: 22956, Stop: 23744, Start Num: 171

Candidate Starts for Eddiemania_31:

(Start: 171 @22956 has 34 MA's), (197, 23001), (215, 23031), (220, 23043), (242, 23097), (269, 23148), (310, 23244), (337, 23286), (408, 23475), (409, 23478), (440, 23553), (506, 23700),

Gene: EdnaMode_23 Start: 18689, Stop: 19408, Start Num: 164

Candidate Starts for EdnaMode_23:

(164, 18689), (166, 18692), (Start: 177 @18707 has 45 MA's), (231, 18800), (235, 18815), (253, 18851), (290, 18932), (303, 18965), (305, 18971), (339, 19016), (355, 19055), (409, 19193), (411, 19199), (423, 19223), (427, 19238), (510, 19400),

Gene: Emianna_19 Start: 9384, Stop: 10109, Start Num: 119

Candidate Starts for Emianna_19:

(Start: 119 @9384 has 26 MA's), (143, 9408), (172, 9441), (210, 9444), (231, 9480), (235, 9495), (257, 9537), (331, 9684), (405, 9876), (457, 9978), (475, 10008), (487, 10029), (493, 10044), (520, 10104),

Gene: EnalisNailo_27 Start: 22059, Stop: 22775, Start Num: 173

Candidate Starts for EnalisNailo_27:

(Start: 156 @22032 has 75 MA's), (Start: 158 @22035 has 1 MA's), (Start: 173 @22059 has 16 MA's), (185, 22077), (217, 22131), (258, 22215), (276, 22254), (291, 22290), (302, 22317), (339, 22371), (346, 22389), (388, 22482), (409, 22560), (411, 22566), (500, 22743), (509, 22761),

Gene: EndAve_30 Start: 22310, Stop: 23098, Start Num: 171

Candidate Starts for EndAve_30:

(Start: 171 @22310 has 34 MA's), (197, 22355), (215, 22385), (220, 22397), (242, 22451), (310, 22598), (333, 22634), (337, 22640), (408, 22829), (409, 22832), (429, 22889), (440, 22907), (452, 22934), (506, 23054),

Gene: Ennea_24 Start: 10528, Stop: 11301, Start Num: 119

Candidate Starts for Ennea_24:

(Start: 119 @10528 has 26 MA's), (Start: 208 @10636 has 1 MA's), (210, 10639), (235, 10690), (257, 10732), (309, 10846), (341, 10900), (487, 11221), (511, 11275),

Gene: Erutan_86 Start: 58695, Stop: 59546, Start Num: 152

Candidate Starts for Erutan_86:

(139, 58671), (140, 58674), (Start: 152 @58695 has 27 MA's), (Start: 158 @58704 has 1 MA's), (Start: 171 @58725 has 34 MA's), (201, 58767), (205, 58773), (228, 58818), (275, 58923), (289, 58959), (293, 58971), (309, 59010), (392, 59190), (412, 59256), (416, 59265), (430, 59295), (454, 59343), (456, 59346), (478, 59400), (496, 59445), (502, 59457), (533, 59523),

Gene: Eudoria_27 Start: 22303, Stop: 22923, Start Num: 190

Candidate Starts for Eudoria_27:

(39, 21928), (78, 22099), (80, 22102), (Start: 112 @22183 has 1 MA's), (121, 22204), (Start: 190 @22303 has 15 MA's), (Start: 200 @22312 has 2 MA's), (224, 22357), (266, 22438), (309, 22537), (332, 22573), (356, 22624), (380, 22672), (399, 22735), (409, 22765), (437, 22816), (487, 22867), (500, 22894),

Gene: Evaa_42 Start: 36118, Stop: 36834, Start Num: 177

Candidate Starts for Evaa_42:

(32, 35704), (Start: 177 @36118 has 45 MA's), (209, 36172), (235, 36226), (258, 36271), (282, 36322), (283, 36325), (287, 36334), (291, 36346), (305, 36382), (346, 36454), (390, 36547), (401, 36595), (402, 36598), (409, 36619), (500, 36802),

Gene: Evamon_43 Start: 36191, Stop: 36946, Start Num: 151

Candidate Starts for Evamon_43:

(100, 36095), (Start: 151 @36191 has 15 MA's), (206, 36263), (225, 36299), (266, 36371), (275, 36386), (376, 36566), (382, 36572), (392, 36599), (405, 36647), (455, 36749), (505, 36833), (540, 36905),

Gene: Eviarto_25 Start: 22309, Stop: 22926, Start Num: 189

Candidate Starts for Eviarto_25:

(121, 22210), (153, 22249), (Start: 174 @22282 has 6 MA's), (Start: 189 @22309 has 20 MA's), (Start: 200 @22318 has 2 MA's), (224, 22360), (231, 22372), (254, 22420), (266, 22441), (276, 22462), (290, 22495), (292, 22498), (309, 22540), (332, 22576), (356, 22627), (380, 22675), (399, 22738), (409, 22768), (437, 22819), (500, 22897),

Gene: Ewald_46 Start: 35188, Stop: 35994, Start Num: 152

Candidate Starts for Ewald_46:

(Start: 152 @35188 has 27 MA's), (Start: 196 @35251 has 1 MA's), (240, 35341), (270, 35401), (297, 35473), (300, 35479), (301, 35482), (371, 35629), (398, 35707), (399, 35710), (410, 35740), (413, 35746), (437, 35797), (506, 35923), (532, 35971),

Gene: Eyes_26 Start: 21433, Stop: 22146, Start Num: 177

Candidate Starts for Eyes_26:

(Start: 142 @21376 has 1 MA's), (Start: 177 @21433 has 45 MA's), (231, 21526), (235, 21541), (258, 21586), (282, 21637), (292, 21664), (302, 21688), (342, 21751), (346, 21760), (405, 21910), (409, 21922), (411, 21928), (491, 22093),

Gene: Eyre_23 Start: 19537, Stop: 20265, Start Num: 173

Candidate Starts for Eyre_23:

(35, 19162), (71, 19333), (72, 19336), (105, 19417), (115, 19438), (Start: 173 @19537 has 16 MA's), (231, 19636), (235, 19651), (258, 19696), (302, 19798), (339, 19852), (346, 19870), (409, 20038), (411, 20044), (463, 20146), (491, 20209),

Gene: Fairfaxidum_25 Start: 21557, Stop: 22270, Start Num: 173

Candidate Starts for Fairfaxidum_25:

(Start: 163 @21542 has 4 MA's), (Start: 173 @21557 has 16 MA's), (181, 21569), (183, 21572), (185, 21575), (241, 21683), (258, 21713), (271, 21743), (291, 21788), (309, 21833), (339, 21875), (346, 21893), (388, 21980), (390, 21986), (402, 22037), (409, 22058), (411, 22064), (427, 22103), (431, 22115), (476, 22187), (506, 22250),

Gene: Faith5x5_23 Start: 18643, Stop: 19344, Start Num: 173

Candidate Starts for Faith5x5_23:

(Start: 173 @18643 has 16 MA's), (217, 18709), (231, 18733), (241, 18763), (258, 18793), (276, 18832), (282, 18844), (292, 18871), (302, 18895), (303, 18898), (340, 18952), (342, 18958), (346, 18967), (370, 19030), (386, 19045), (388, 19051), (399, 19099), (406, 19120), (409, 19129), (411, 19135), (431, 19186), (463, 19225), (468, 19237), (500, 19312), (510, 19333), (512, 19336),

Gene: Fazel_31 Start: 21344, Stop: 22132, Start Num: 171

Candidate Starts for Fazel_31:

(Start: 171 @21344 has 34 MA's), (197, 21389), (235, 21467), (242, 21485), (309, 21629), (310, 21632), (327, 21659), (337, 21674), (369, 21758), (392, 21806), (408, 21863), (409, 21866), (436, 21935), (440, 21941), (453, 21971),

Gene: Fenry_24 Start: 20871, Stop: 21674, Start Num: 156

Candidate Starts for Fenry_24:

(Start: 156 @20871 has 75 MA's), (Start: 184 @20919 has 1 MA's), (Start: 196 @20931 has 1 MA's), (207, 20946), (225, 20982), (268, 21075), (277, 21087), (290, 21123), (291, 21126), (309, 21171), (310, 21174), (319, 21186), (330, 21204), (337, 21216), (339, 21219), (340, 21222), (410, 21399), (423, 21420), (425, 21426), (506, 21582), (527, 21618), (536, 21642), (547, 21663),

Gene: Figliar_30 Start: 22320, Stop: 23108, Start Num: 171

Candidate Starts for Figliar_30:

(Start: 171 @22320 has 34 MA's), (197, 22365), (215, 22395), (220, 22407), (242, 22461), (310, 22608), (327, 22635), (337, 22650), (369, 22734), (408, 22839), (409, 22842), (440, 22917), (506, 23064),

Gene: Fireball_45 Start: 36416, Stop: 37156, Start Num: 150

Candidate Starts for Fireball_45:

(127, 36380), (140, 36401), (Start: 150 @36416 has 18 MA's), (206, 36488), (225, 36524), (266, 36596), (303, 36677), (376, 36791), (382, 36797), (392, 36824), (405, 36872), (455, 36974), (517, 37088), (541, 37136),

Gene: Fitzgerald_44 Start: 40680, Stop: 41414, Start Num: 156

Candidate Starts for Fitzgerald_44:

(82, 40533), (Start: 120 @40623 has 3 MA's), (Start: 156 @40680 has 75 MA's), (Start: 167 @40698 has 3 MA's), (225, 40785), (237, 40812), (265, 40860), (274, 40878), (291, 40920), (335, 40998), (360, 41040), (375, 41073), (427, 41208), (446, 41247), (501, 41346), (517, 41373), (534, 41406),

Gene: Flapper_22 Start: 9234, Stop: 10004, Start Num: 119

Candidate Starts for Flapper_22:

(Start: 119 @9234 has 26 MA's), (130, 9252), (Start: 208 @9342 has 1 MA's), (235, 9396), (257, 9438), (365, 9666), (385, 9699), (386, 9702), (487, 9921), (511, 9975),

Gene: Flatwoods_46 Start: 39507, Stop: 40250, Start Num: 156

Candidate Starts for Flatwoods_46:

(Start: 156 @39507 has 75 MA's), (Start: 167 @39525 has 3 MA's), (197, 39570), (225, 39615), (265, 39690), (274, 39708), (291, 39750), (302, 39777), (360, 39870), (363, 39882), (412, 40002), (427, 40038), (431, 40050), (446, 40077), (467, 40110), (483, 40143), (501, 40176), (517, 40203),

Gene: Float294_20 Start: 9077, Stop: 9850, Start Num: 119

Candidate Starts for Float294_20:

(Start: 119 @9077 has 26 MA's), (Start: 208 @9185 has 1 MA's), (210, 9188), (235, 9239), (257, 9281), (309, 9395), (341, 9449), (395, 9581), (487, 9770), (511, 9824),

Gene: Floral_27 Start: 21910, Stop: 22626, Start Num: 173

Candidate Starts for Floral_27:

(Start: 156 @21883 has 75 MA's), (Start: 158 @21886 has 1 MA's), (Start: 173 @21910 has 16 MA's), (185, 21928), (217, 21982), (258, 22066), (276, 22105), (291, 22141), (302, 22168), (339, 22222), (346, 22240), (388, 22333), (409, 22411), (411, 22417), (500, 22594), (509, 22612),

Gene: FlyingTortilla_30 Start: 24461, Stop: 25141, Start Num: 119

Candidate Starts for FlyingTortilla_30:

(Start: 119 @24461 has 26 MA's), (Start: 208 @24518 has 1 MA's), (276, 24635), (290, 24668), (303, 24698), (304, 24701), (313, 24722), (320, 24728), (331, 24746), (341, 24767), (370, 24836), (385, 24860), (391, 24878), (395, 24899), (431, 24992), (437, 25001), (487, 25052), (516, 25121), (526, 25136),

Gene: FortCran_31 Start: 19318, Stop: 20103, Start Num: 171

Candidate Starts for FortCran_31:

(Start: 171 @19318 has 34 MA's), (Start: 179 @19333 has 5 MA's), (197, 19363), (242, 19459), (246, 19465), (309, 19603), (330, 19636), (337, 19648), (408, 19837), (409, 19840), (440, 19915), (506, 20062),

Gene: Fosterous_43 Start: 39239, Stop: 39973, Start Num: 156

Candidate Starts for Fosterous_43:

(Start: 120 @39182 has 3 MA's), (Start: 156 @39239 has 75 MA's), (Start: 167 @39257 has 3 MA's), (225, 39344), (237, 39371), (265, 39419), (274, 39437), (291, 39479), (335, 39557), (360, 39599), (375, 39632), (427, 39767), (446, 39806), (501, 39905), (517, 39932), (534, 39965),

Gene: Foxboro_20 Start: 9744, Stop: 10469, Start Num: 119

Candidate Starts for Foxboro_20:

(Start: 119 @9744 has 26 MA's), (143, 9768), (172, 9801), (210, 9804), (231, 9840), (235, 9855), (257, 9897), (331, 10044), (405, 10236), (457, 10338), (475, 10368), (487, 10389), (493, 10404), (520, 10464),

Gene: Francesca_10 Start: 6016, Stop: 5336, Start Num: 199

Candidate Starts for Francesca_10:

(199, 6016), (Start: 204 @6010 has 3 MA's), (210, 5998), (228, 5962), (234, 5947), (236, 5938), (326, 5737), (338, 5719), (353, 5683), (364, 5653), (408, 5539), (414, 5521), (418, 5512), (444, 5461), (454, 5440), (461, 5428), (466, 5419),

Gene: Fresco_42 Start: 35273, Stop: 35995, Start Num: 177

Candidate Starts for Fresco_42:

(29, 34883), (64, 35060), (104, 35168), (Start: 177 @35273 has 45 MA's), (262, 35435), (282, 35480), (305, 35543), (313, 35561), (339, 35588), (370, 35666), (372, 35669), (399, 35738), (409, 35768), (411, 35774), (502, 35963),

Gene: Frickyeah_27 Start: 21264, Stop: 21887, Start Num: 195

Candidate Starts for Frickyeah_27:

(42, 20889), (52, 20946), (62, 20991), (78, 21045), (80, 21048), (94, 21084), (Start: 112 @21129 has 1 MA's), (113, 21132), (Start: 195 @21264 has 27 MA's), (Start: 200 @21270 has 2 MA's), (217, 21300), (224, 21315), (254, 21375), (293, 21456), (309, 21495), (349, 21567), (380, 21630), (395, 21675), (399, 21693), (406, 21714), (409, 21723), (500, 21855), (506, 21864), (510, 21876),

Gene: Frokostdame_25 Start: 21118, Stop: 21918, Start Num: 156

Candidate Starts for Frokostdame_25:

(82, 20968), (Start: 156 @21118 has 75 MA's), (Start: 184 @21166 has 1 MA's), (Start: 196 @21178 has 1 MA's), (207, 21193), (225, 21229), (268, 21322), (290, 21370), (291, 21373), (315, 21430), (319, 21433), (330, 21451), (337, 21463), (339, 21466), (340, 21469), (410, 21646), (423, 21667), (441, 21709), (497, 21814), (506, 21829), (507, 21832), (527, 21865), (536, 21889),

Gene: Fugax_47 Start: 36463, Stop: 37218, Start Num: 150

Candidate Starts for Fugax_47:

(140, 36448), (Start: 150 @36463 has 18 MA's), (206, 36535), (225, 36571), (266, 36643), (376, 36838), (382, 36844), (392, 36871), (405, 36919), (455, 37021), (505, 37105), (540, 37177),

Gene: Fulcrum_85 Start: 58384, Stop: 59235, Start Num: 152

Candidate Starts for Fulcrum_85:

(70, 58207), (83, 58234), (88, 58243), (91, 58258), (96, 58267), (139, 58360), (140, 58363), (Start: 152 @58384 has 27 MA's), (Start: 158 @58393 has 1 MA's), (Start: 171 @58414 has 34 MA's), (201, 58456), (205, 58462), (228, 58507), (275, 58612), (289, 58648), (293, 58660), (309, 58699), (328, 58729), (330, 58732), (337, 58744), (392, 58879), (412, 58945), (416, 58954), (430, 58984), (444, 59011), (456, 59035), (478, 59089), (496, 59134), (502, 59146), (533, 59212),

Gene: Fury_25 Start: 9669, Stop: 10463, Start Num: 116

Candidate Starts for Fury_25:

(49, 9471), (Start: 116 @9669 has 1 MA's), (Start: 208 @9798 has 1 MA's), (210, 9801), (235, 9858), (257, 9900), (309, 10014), (320, 10029), (331, 10047), (350, 10083), (379, 10152), (385, 10158), (406, 10236), (409, 10245), (431, 10299), (475, 10359),

Gene: GAL1_26 Start: 21339, Stop: 22043, Start Num: 173

Candidate Starts for GAL1_26:

(Start: 173 @21339 has 16 MA's), (Start: 176 @21345 has 2 MA's), (217, 21411), (231, 21435), (241, 21465), (258, 21495), (276, 21534), (302, 21597), (342, 21660), (346, 21669), (385, 21744), (386,

21747), (388, 21753), (399, 21801), (409, 21831), (411, 21837), (468, 21939), (476, 21960), (506, 22023),

Gene: GEazy_26 Start: 21448, Stop: 22167, Start Num: 177

Candidate Starts for GEazy_26:

(Start: 142 @21391 has 1 MA's), (Start: 177 @21448 has 45 MA's), (231, 21541), (235, 21556), (258, 21601), (282, 21652), (292, 21679), (302, 21703), (342, 21766), (346, 21775), (409, 21937), (411, 21943),

Gene: GMA3_32 Start: 38590, Stop: 39348, Start Num: 176

Candidate Starts for GMA3_32:

(Start: 176 @38590 has 2 MA's), (227, 38677), (275, 38785), (293, 38833), (307, 38869), (339, 38905), (352, 38938), (358, 38950), (392, 39040), (400, 39073), (430, 39151), (460, 39208), (507, 39319),

Gene: GMA6_16 Start: 13599, Stop: 14291, Start Num: 117

Candidate Starts for GMA6_16:

(117, 13599), (Start: 208 @13659 has 1 MA's), (215, 13671), (220, 13683), (227, 13695), (236, 13716), (254, 13749), (276, 13791), (290, 13824), (336, 13911), (385, 14013), (404, 14085), (427, 14133), (484, 14205), (500, 14241), (523, 14286),

Gene: GOATification_85 Start: 58384, Stop: 59235, Start Num: 152

Candidate Starts for GOATification_85:

(70, 58207), (83, 58234), (88, 58243), (91, 58258), (96, 58267), (139, 58360), (140, 58363), (Start: 152 @58384 has 27 MA's), (Start: 158 @58393 has 1 MA's), (Start: 171 @58414 has 34 MA's), (201, 58456), (205, 58462), (228, 58507), (275, 58612), (289, 58648), (293, 58660), (309, 58699), (328, 58729), (330, 58732), (337, 58744), (392, 58879), (412, 58945), (416, 58954), (430, 58984), (444, 59011), (456, 59035), (478, 59089), (496, 59134), (502, 59146), (533, 59212),

Gene: GRU1_9 Start: 2330, Stop: 3097, Start Num: 119

Candidate Starts for GRU1_9:

(118, 2327), (Start: 119 @2330 has 26 MA's), (130, 2345), (Start: 208 @2435 has 1 MA's), (210, 2438), (235, 2489), (257, 2531), (293, 2606), (365, 2759), (385, 2792), (386, 2795), (417, 2897), (482, 3008), (487, 3014), (508, 3062), (511, 3068),

Gene: GTE5_9 Start: 2331, Stop: 3101, Start Num: 119

Candidate Starts for GTE5_9:

(Start: 119 @2331 has 26 MA's), (130, 2349), (Start: 208 @2439 has 1 MA's), (235, 2493), (257, 2535), (365, 2763), (385, 2796), (386, 2799), (482, 3012), (487, 3018), (508, 3066), (511, 3072),

Gene: GTE8_7 Start: 2259, Stop: 2990, Start Num: 119

Candidate Starts for GTE8_7:

(Start: 119 @2259 has 26 MA's), (143, 2283), (172, 2316), (210, 2319), (231, 2355), (235, 2370), (257, 2412), (357, 2616), (385, 2676), (405, 2751), (406, 2754), (455, 2853), (457, 2856), (475, 2886), (487, 2907), (493, 2922),

Gene: Gaea_45 Start: 39151, Stop: 39894, Start Num: 156

Candidate Starts for Gaea_45:

(Start: 156 @39151 has 75 MA's), (Start: 167 @39169 has 3 MA's), (197, 39214), (225, 39259), (251, 39304), (265, 39334), (274, 39352), (281, 39364), (291, 39394), (302, 39421), (360, 39514), (363, 39526), (399, 39610), (427, 39682), (431, 39694), (446, 39721), (467, 39754), (483, 39787), (501, 39820), (517, 39847),

Gene: Galadriel_45 Start: 40046, Stop: 40780, Start Num: 156

Candidate Starts for Galadriel_45:

(82, 39899), (Start: 120 @39989 has 3 MA's), (Start: 156 @40046 has 75 MA's), (Start: 167 @40064 has 3 MA's), (225, 40151), (237, 40178), (265, 40226), (274, 40244), (291, 40286), (335, 40364), (360, 40406), (375, 40439), (427, 40574), (446, 40613), (501, 40712), (517, 40739), (534, 40772),

Gene: Gambino_27 Start: 21524, Stop: 22264, Start Num: 196

Candidate Starts for Gambino_27:

(82, 21314), (Start: 156 @21464 has 75 MA's), (Start: 184 @21512 has 1 MA's), (Start: 196 @21524 has 1 MA's), (225, 21575), (268, 21668), (291, 21719), (315, 21776), (319, 21779), (330, 21797), (337, 21809), (339, 21812), (340, 21815), (410, 21992), (423, 22013), (425, 22019), (441, 22055), (497, 22160), (506, 22175), (507, 22178), (527, 22211), (536, 22235),

Gene: GemG_24 Start: 19798, Stop: 20505, Start Num: 177

Candidate Starts for GemG_24:

(98, 19654), (Start: 177 @19798 has 45 MA's), (211, 19855), (231, 19894), (253, 19945), (258, 19954), (266, 19972), (267, 19975), (291, 20029), (292, 20032), (305, 20065), (313, 20083), (339, 20110), (370, 20188), (399, 20257), (401, 20263), (409, 20287), (411, 20293), (510, 20497),

Gene: Genamy16_87 Start: 57186, Stop: 58037, Start Num: 152

Candidate Starts for Genamy16_87:

(139, 57162), (140, 57165), (Start: 152 @57186 has 27 MA's), (Start: 165 @57207 has 1 MA's), (Start: 171 @57216 has 34 MA's), (201, 57258), (205, 57264), (228, 57309), (273, 57411), (275, 57414), (289, 57450), (293, 57462), (309, 57501), (328, 57531), (330, 57534), (337, 57546), (339, 57549), (392, 57681), (412, 57747), (416, 57756), (430, 57786), (444, 57813), (454, 57834), (478, 57891), (496, 57936), (533, 58014),

Gene: Geodirt_44 Start: 40658, Stop: 41392, Start Num: 156

Candidate Starts for Geodirt_44:

(Start: 120 @40601 has 3 MA's), (Start: 156 @40658 has 75 MA's), (Start: 167 @40676 has 3 MA's), (225, 40763), (237, 40790), (265, 40838), (274, 40856), (291, 40898), (335, 40976), (360, 41018), (375, 41051), (427, 41186), (446, 41225), (501, 41324), (517, 41351), (534, 41384),

Gene: Getalong_29 Start: 22301, Stop: 22924, Start Num: 195

Candidate Starts for Getalong_29:

(42, 21926), (52, 21983), (62, 22028), (78, 22082), (80, 22085), (94, 22121), (Start: 112 @22166 has 1 MA's), (113, 22169), (Start: 195 @22301 has 27 MA's), (Start: 200 @22307 has 2 MA's), (217, 22337), (224, 22352), (254, 22412), (293, 22493), (309, 22532), (349, 22604), (380, 22667), (395, 22712), (399, 22730), (406, 22751), (409, 22760), (500, 22892), (506, 22901), (510, 22913),

Gene: Gezellig_45 Start: 36323, Stop: 37078, Start Num: 151

Candidate Starts for Gezellig_45:

(108, 36245), (Start: 151 @36323 has 15 MA's), (206, 36395), (266, 36503), (288, 36548), (376, 36698), (382, 36704), (392, 36731), (405, 36779), (455, 36881), (505, 36965), (540, 37037),

Gene: Ghobes_41 Start: 36518, Stop: 37297, Start Num: 159

Candidate Starts for Ghobes_41:

(Start: 159 @36518 has 16 MA's), (Start: 171 @36536 has 34 MA's), (199, 36584), (205, 36593), (207, 36596), (225, 36632), (265, 36710), (277, 36737), (288, 36767), (299, 36797), (312, 36830), (314, 36833), (322, 36845), (346, 36890), (370, 36944), (392, 36989), (513, 37235), (528, 37259),

Gene: Gibbin_88 Start: 59024, Stop: 59875, Start Num: 152

Candidate Starts for Gibbin_88:

(139, 59000), (140, 59003), (Start: 152 @59024 has 27 MA's), (Start: 158 @59033 has 1 MA's), (Start: 171 @59054 has 34 MA's), (201, 59096), (205, 59102), (228, 59147), (275, 59252), (280, 59261), (289, 59288), (293, 59300), (309, 59339), (392, 59519), (412, 59585), (416, 59594), (430, 59624), (444, 59651), (456, 59675), (478, 59729), (496, 59774), (502, 59786), (533, 59852),

Gene: Gibbles_38 Start: 40989, Stop: 41708, Start Num: 179

Candidate Starts for Gibbles_38:

(Start: 179 @40989 has 5 MA's), (182, 40995), (205, 41031), (212, 41043), (256, 41136), (309, 41262), (330, 41280), (333, 41286), (352, 41328), (373, 41382), (381, 41394), (410, 41490), (450, 41550), (498, 41664),

Gene: Gill_27 Start: 19428, Stop: 20213, Start Num: 171

Candidate Starts for Gill_27:

(Start: 171 @19428 has 34 MA's), (Start: 179 @19443 has 5 MA's), (Start: 208 @19491 has 1 MA's), (225, 19524), (242, 19569), (246, 19575), (309, 19713), (330, 19746), (337, 19758), (408, 19947), (409, 19950), (440, 20025), (452, 20052), (506, 20172),

Gene: Gizermo_24 Start: 19798, Stop: 20505, Start Num: 177

Candidate Starts for Gizermo_24:

(98, 19654), (Start: 177 @19798 has 45 MA's), (211, 19855), (231, 19894), (253, 19945), (258, 19954), (266, 19972), (267, 19975), (291, 20029), (292, 20032), (305, 20065), (313, 20083), (339, 20110), (370, 20188), (399, 20257), (401, 20263), (409, 20287), (411, 20293), (510, 20497),

Gene: Gmala1_33 Start: 37223, Stop: 38008, Start Num: 176

Candidate Starts for Gmala1_33:

(Start: 176 @37223 has 2 MA's), (186, 37238), (205, 37268), (212, 37280), (218, 37292), (223, 37304), (234, 37328), (253, 37370), (275, 37418), (291, 37460), (307, 37502), (339, 37553), (385, 37661), (433, 37805), (491, 37928), (507, 37970),

Gene: GordDuk1_33 Start: 37164, Stop: 37949, Start Num: 176

Candidate Starts for GordDuk1_33:

(Start: 176 @37164 has 2 MA's), (186, 37179), (212, 37221), (218, 37233), (234, 37269), (253, 37311), (275, 37359), (291, 37401), (307, 37443), (339, 37494), (385, 37602), (433, 37746), (491, 37869), (507, 37911),

Gene: GordTnk2_33 Start: 37130, Stop: 37915, Start Num: 176

Candidate Starts for GordTnk2_33:

(Start: 176 @37130 has 2 MA's), (186, 37145), (205, 37175), (212, 37187), (218, 37199), (223, 37211), (234, 37235), (253, 37277), (275, 37325), (307, 37409), (339, 37460), (385, 37568), (433, 37712), (491, 37835), (498, 37859), (507, 37877),

Gene: Gravy_27 Start: 19428, Stop: 20213, Start Num: 171

Candidate Starts for Gravy_27:

(Start: 171 @19428 has 34 MA's), (Start: 179 @19443 has 5 MA's), (Start: 208 @19491 has 1 MA's), (225, 19524), (242, 19569), (246, 19575), (309, 19713), (330, 19746), (337, 19758), (408, 19947), (409, 19950), (440, 20025), (452, 20052), (506, 20172),

Gene: Gray_31 Start: 21550, Stop: 22266, Start Num: 112

Candidate Starts for Gray_31:

(Start: 112 @21550 has 1 MA's), (Start: 119 @21568 has 26 MA's), (Start: 208 @21631 has 1 MA's), (227, 21667), (259, 21727), (266, 21739), (276, 21760), (290, 21793), (303, 21823), (304, 21826), (313, 21847), (320, 21853), (323, 21859), (336, 21880), (385, 21985), (388, 21994), (406, 22063), (408, 22069), (427, 22105), (431, 22117), (475, 22156), (487, 22177), (516, 22246), (525, 22258),

(526, 22261),

Gene: Grayson_31 Start: 9328, Stop: 8654, Start Num: 204

Candidate Starts for Grayson_31:

(188, 9352), (193, 9343), (Start: 204 @9328 has 3 MA's), (236, 9262), (238, 9259), (246, 9238), (264, 9205), (294, 9124), (344, 9031), (365, 8977), (389, 8938), (408, 8866), (425, 8824), (426, 8818),

Gene: Gretellyn_86 Start: 58751, Stop: 59602, Start Num: 152

Candidate Starts for Gretellyn_86:

(139, 58727), (140, 58730), (Start: 152 @58751 has 27 MA's), (Start: 158 @58760 has 1 MA's), (Start: 171 @58781 has 34 MA's), (201, 58823), (205, 58829), (228, 58874), (275, 58979), (289, 59015), (293, 59027), (309, 59066), (392, 59246), (412, 59312), (416, 59321), (430, 59351), (454, 59399), (456, 59402), (478, 59456), (496, 59501), (502, 59513), (533, 59579),

Gene: GrootJr_21 Start: 9807, Stop: 10532, Start Num: 119

Candidate Starts for GrootJr_21:

(Start: 119 @9807 has 26 MA's), (143, 9831), (172, 9864), (210, 9867), (231, 9903), (235, 9918), (257, 9960), (331, 10107), (405, 10299), (457, 10401), (475, 10431), (487, 10452), (493, 10467), (520, 10527),

Gene: Guacamole_25 Start: 21156, Stop: 21959, Start Num: 156

Candidate Starts for Guacamole_25:

(Start: 156 @21156 has 75 MA's), (Start: 184 @21204 has 1 MA's), (Start: 196 @21216 has 1 MA's), (207, 21231), (225, 21267), (268, 21360), (291, 21411), (315, 21468), (319, 21471), (330, 21489), (337, 21501), (339, 21504), (340, 21507), (410, 21684), (423, 21705), (425, 21711), (506, 21867), (527, 21903), (536, 21927), (547, 21948),

Gene: Gudmit_24 Start: 19608, Stop: 20321, Start Num: 173

Candidate Starts for Gudmit_24:

(Start: 173 @19608 has 16 MA's), (185, 19626), (258, 19764), (292, 19842), (302, 19866), (339, 19920), (346, 19938), (388, 20031), (409, 20109), (411, 20115), (425, 20145), (506, 20301), (512, 20313),

Gene: Gustav_37 Start: 28213, Stop: 28986, Start Num: 159

Candidate Starts for Gustav_37:

(Start: 159 @28213 has 16 MA's), (197, 28267), (205, 28279), (231, 28330), (263, 28387), (279, 28417), (284, 28432), (290, 28450), (302, 28480), (303, 28483), (313, 28507), (333, 28540), (378, 28630), (447, 28798), (515, 28939), (529, 28963),

Gene: Gustavo_45 Start: 39323, Stop: 40066, Start Num: 156

Candidate Starts for Gustavo_45:

(Start: 156 @39323 has 75 MA's), (Start: 167 @39341 has 3 MA's), (197, 39386), (225, 39431), (260, 39494), (265, 39506), (274, 39524), (291, 39566), (302, 39593), (360, 39686), (363, 39698), (412, 39818), (427, 39854), (431, 39866), (446, 39893), (467, 39926), (483, 39959), (501, 39992), (517, 40019),

Gene: GuyFagieri_19 Start: 9542, Stop: 10426, Start Num: 131

Candidate Starts for GuyFagieri_19:

(41, 9272), (43, 9284), (46, 9299), (Start: 131 @9542 has 6 MA's), (141, 9557), (178, 9620), (227, 9707), (234, 9725), (239, 9740), (247, 9758), (254, 9770), (322, 9899), (362, 9977), (385, 10013), (412, 10106), (420, 10121), (471, 10220), (492, 10268), (503, 10301), (527, 10349), (545, 10394),

Gene: Haley23_24 Start: 19798, Stop: 20505, Start Num: 177

Candidate Starts for Haley23_24:

(98, 19654), (Start: 177 @19798 has 45 MA's), (211, 19855), (231, 19894), (253, 19945), (258, 19954), (266, 19972), (267, 19975), (291, 20029), (292, 20032), (305, 20065), (313, 20083), (339, 20110), (370, 20188), (399, 20257), (401, 20263), (409, 20287), (411, 20293), (510, 20497),

Gene: Halo3_44 Start: 36616, Stop: 37371, Start Num: 151

Candidate Starts for Halo3_44:

(100, 36520), (Start: 151 @36616 has 15 MA's), (206, 36688), (225, 36724), (266, 36796), (376, 36991), (382, 36997), (392, 37024), (455, 37174), (505, 37258), (540, 37330),

Gene: Hanem_31 Start: 21568, Stop: 22266, Start Num: 119

Candidate Starts for Hanem_31:

(Start: 112 @21550 has 1 MA's), (Start: 119 @21568 has 26 MA's), (Start: 208 @21631 has 1 MA's), (227, 21667), (259, 21727), (266, 21739), (276, 21760), (290, 21793), (303, 21823), (304, 21826), (313, 21847), (320, 21853), (323, 21859), (336, 21880), (385, 21985), (388, 21994), (406, 22063), (408, 22069), (427, 22105), (431, 22117), (475, 22156), (500, 22210), (516, 22246), (525, 22258), (526, 22261),

Gene: HannahD_26 Start: 21448, Stop: 22167, Start Num: 177

Candidate Starts for HannahD_26:

(Start: 142 @21391 has 1 MA's), (Start: 177 @21448 has 45 MA's), (231, 21541), (235, 21556), (258, 21601), (282, 21652), (292, 21679), (302, 21703), (342, 21766), (346, 21775), (409, 21937), (411, 21943),

Gene: Hans_46 Start: 38978, Stop: 39697, Start Num: 157

Candidate Starts for Hans_46:

(Start: 157 @38978 has 6 MA's), (169, 38993), (Start: 196 @39032 has 1 MA's), (225, 39083), (265, 39143), (382, 39362), (388, 39371), (392, 39389), (410, 39449), (446, 39524), (501, 39623), (524, 39662), (533, 39683),

Gene: Hedwig_28 Start: 22437, Stop: 23138, Start Num: 174

Candidate Starts for Hedwig_28:

(Start: 174 @22437 has 6 MA's), (187, 22455), (231, 22530), (235, 22545), (271, 22620), (302, 22692), (313, 22719), (339, 22746), (342, 22755), (346, 22764), (386, 22839), (388, 22845), (409, 22923), (411, 22929), (476, 23052), (491, 23082), (506, 23115),

Gene: Heinz_50 Start: 31743, Stop: 32606, Start Num: 128

Candidate Starts for Heinz_50:

(57, 31539), (75, 31623), (79, 31632), (114, 31713), (Start: 128 @31743 has 5 MA's), (233, 31926), (306, 32100), (331, 32133), (332, 32136), (347, 32169), (381, 32244), (385, 32250), (409, 32337), (458, 32448), (460, 32451), (462, 32457), (476, 32493), (489, 32520), (519, 32595),

Gene: Herod_25 Start: 22309, Stop: 22926, Start Num: 189

Candidate Starts for Herod_25:

(121, 22210), (153, 22249), (Start: 174 @22282 has 6 MA's), (Start: 189 @22309 has 20 MA's), (Start: 200 @22318 has 2 MA's), (224, 22360), (231, 22372), (254, 22420), (266, 22441), (276, 22462), (290, 22495), (292, 22498), (309, 22540), (332, 22576), (356, 22627), (380, 22675), (399, 22738), (409, 22768), (437, 22819), (500, 22897),

Gene: Hibiscus_50 Start: 31692, Stop: 32555, Start Num: 128

Candidate Starts for Hibiscus_50:

(57, 31488), (75, 31572), (79, 31581), (114, 31662), (Start: 128 @31692 has 5 MA's), (233, 31875), (306, 32049), (331, 32082), (332, 32085), (347, 32118), (381, 32193), (385, 32199), (409, 32286),

(458, 32397), (460, 32400), (462, 32406), (476, 32442), (489, 32469), (519, 32544),

Gene: Hitter_25 Start: 21152, Stop: 21955, Start Num: 156

Candidate Starts for Hitter_25:

(Start: 156 @21152 has 75 MA's), (Start: 184 @21200 has 1 MA's), (Start: 196 @21212 has 1 MA's), (207, 21227), (268, 21356), (277, 21368), (291, 21407), (310, 21455), (319, 21467), (330, 21485), (337, 21497), (339, 21500), (340, 21503), (410, 21680), (423, 21701), (425, 21707), (506, 21863), (527, 21899), (536, 21923), (547, 21944),

Gene: Holliday_28 Start: 21606, Stop: 22229, Start Num: 195

Candidate Starts for Holliday_28:

(42, 21231), (52, 21288), (62, 21333), (78, 21387), (80, 21390), (94, 21426), (Start: 112 @21471 has 1 MA's), (113, 21474), (Start: 195 @21606 has 27 MA's), (Start: 200 @21612 has 2 MA's), (217, 21642), (224, 21657), (254, 21717), (293, 21798), (309, 21837), (349, 21909), (380, 21972), (395, 22017), (399, 22035), (406, 22056), (409, 22065), (500, 22197), (506, 22206), (510, 22218),

Gene: Hortense_25 Start: 21831, Stop: 22619, Start Num: 155

Candidate Starts for Hortense_25:

(Start: 146 @21819 has 2 MA's), (Start: 155 @21831 has 22 MA's), (Start: 167 @21843 has 3 MA's), (169, 21846), (Start: 184 @21873 has 1 MA's), (Start: 196 @21885 has 1 MA's), (225, 21936), (268, 22029), (289, 22074), (290, 22077), (291, 22080), (319, 22140), (330, 22158), (337, 22170), (339, 22173), (340, 22176), (385, 22266), (410, 22353), (497, 22521), (507, 22539), (527, 22575), (536, 22599),

Gene: Hortihabitatio_31 Start: 21725, Stop: 22510, Start Num: 171

Candidate Starts for Hortihabitatio_31:

(Start: 171 @21725 has 34 MA's), (220, 21812), (242, 21866), (310, 22013), (327, 22040), (337, 22055), (408, 22244), (409, 22247), (440, 22322), (453, 22352),

Gene: Horus_28 Start: 21523, Stop: 22146, Start Num: 195

Candidate Starts for Horus_28:

(42, 21148), (52, 21205), (62, 21250), (78, 21304), (80, 21307), (94, 21343), (Start: 112 @21388 has 1 MA's), (113, 21391), (Start: 195 @21523 has 27 MA's), (Start: 200 @21529 has 2 MA's), (217, 21559), (224, 21574), (254, 21634), (293, 21715), (309, 21754), (349, 21826), (380, 21889), (395, 21934), (399, 21952), (406, 21973), (409, 21982), (500, 22114), (506, 22123), (510, 22135),

Gene: Howe_25 Start: 21873, Stop: 22619, Start Num: 184

Candidate Starts for Howe_25:

(Start: 146 @21819 has 2 MA's), (Start: 155 @21831 has 22 MA's), (Start: 167 @21843 has 3 MA's), (169, 21846), (Start: 184 @21873 has 1 MA's), (Start: 196 @21885 has 1 MA's), (225, 21936), (268, 22029), (289, 22074), (290, 22077), (291, 22080), (319, 22140), (330, 22158), (337, 22170), (339, 22173), (340, 22176), (385, 22266), (410, 22353), (497, 22521), (507, 22539), (527, 22575), (536, 22599),

Gene: HubbaBubba_16 Start: 6438, Stop: 7115, Start Num: 210

Candidate Starts for HubbaBubba_16:

(Start: 123 @6375 has 2 MA's), (Start: 208 @6435 has 1 MA's), (210, 6438), (216, 6450), (257, 6531), (343, 6705), (405, 6870), (469, 6996), (487, 7032), (511, 7086),

Gene: Hugley_25 Start: 22282, Stop: 22926, Start Num: 174

Candidate Starts for Hugley_25:

(121, 22210), (153, 22249), (Start: 174 @22282 has 6 MA's), (Start: 189 @22309 has 20 MA's), (Start: 200 @22318 has 2 MA's), (224, 22360), (231, 22372), (254, 22420), (266, 22441), (276, 22462), (290,

22495), (292, 22498), (309, 22540), (332, 22576), (356, 22627), (380, 22675), (399, 22738), (409, 22768), (437, 22819), (500, 22897),

Gene: Hydrus_31 Start: 22825, Stop: 23613, Start Num: 171

Candidate Starts for Hydrus_31:

(Start: 171 @22825 has 34 MA's), (215, 22900), (220, 22912), (242, 22966), (246, 22972), (269, 23017), (310, 23113), (322, 23131), (327, 23140), (333, 23149), (337, 23155), (408, 23344), (409, 23347), (414, 23362), (440, 23422), (506, 23569),

Gene: Hyzer_27 Start: 22843, Stop: 23631, Start Num: 155

Candidate Starts for Hyzer_27:

(63, 22639), (93, 22723), (102, 22744), (Start: 155 @22843 has 22 MA's), (169, 22858), (Start: 184 @22885 has 1 MA's), (Start: 196 @22897 has 1 MA's), (207, 22912), (268, 23041), (291, 23092), (310, 23140), (319, 23152), (337, 23182), (339, 23185), (340, 23188), (410, 23365), (423, 23386), (425, 23392), (441, 23428), (497, 23533), (527, 23587), (536, 23611),

Gene: IDyn_18 Start: 7766, Stop: 8506, Start Num: 123

Candidate Starts for IDyn_18:

(Start: 123 @7766 has 2 MA's), (Start: 208 @7826 has 1 MA's), (210, 7829), (216, 7841), (257, 7922), (331, 8072), (343, 8096), (357, 8129), (395, 8225), (405, 8261), (469, 8387), (487, 8423), (511, 8477),

Gene: Inspectinfecti_45 Start: 39424, Stop: 40143, Start Num: 157

Candidate Starts for Inspectinfecti_45:

(Start: 157 @39424 has 6 MA's), (169, 39439), (Start: 196 @39478 has 1 MA's), (225, 39529), (265, 39589), (382, 39808), (388, 39817), (392, 39835), (410, 39895), (446, 39970), (501, 40069), (524, 40108), (533, 40129),

Gene: JCole_22 Start: 18663, Stop: 19364, Start Num: 173

Candidate Starts for JCole_22:

(30, 18249), (31, 18252), (Start: 173 @18663 has 16 MA's), (217, 18729), (222, 18741), (231, 18753), (235, 18768), (241, 18783), (258, 18813), (276, 18852), (290, 18885), (292, 18891), (302, 18915), (303, 18918), (331, 18963), (339, 18969), (346, 18987), (388, 19071), (399, 19119), (409, 19149), (411, 19155), (422, 19176), (431, 19206), (476, 19278), (500, 19332), (510, 19353),

Gene: JKSyngboy_43 Start: 39922, Stop: 40665, Start Num: 156

Candidate Starts for JKSyngboy_43:

(Start: 156 @39922 has 75 MA's), (Start: 167 @39940 has 3 MA's), (197, 39985), (251, 40075), (265, 40105), (274, 40123), (281, 40135), (291, 40165), (302, 40192), (360, 40285), (363, 40297), (427, 40453), (431, 40465), (446, 40492), (467, 40525), (501, 40591), (517, 40618),

Gene: Jabberwocky_44 Start: 41084, Stop: 41818, Start Num: 156

Candidate Starts for Jabberwocky_44:

(Start: 120 @41027 has 3 MA's), (Start: 156 @41084 has 75 MA's), (Start: 167 @41102 has 3 MA's), (225, 41189), (237, 41216), (265, 41264), (274, 41282), (291, 41324), (335, 41402), (360, 41444), (375, 41477), (427, 41612), (446, 41651), (501, 41750), (517, 41777), (534, 41810),

Gene: Jablanski_28 Start: 22900, Stop: 23523, Start Num: 189

Candidate Starts for Jablanski_28:

(Start: 189 @22900 has 20 MA's), (202, 22909), (224, 22951), (239, 22987), (266, 23032), (276, 23053), (290, 23086), (309, 23131), (349, 23203), (356, 23218), (380, 23266), (395, 23311), (399, 23329), (406, 23350), (409, 23359), (437, 23413), (487, 23464), (500, 23491), (506, 23500), (507, 23503),

Gene: Jace_72 Start: 41711, Stop: 42511, Start Num: 147

Candidate Starts for Jace_72:

(Start: 147 @41711 has 1 MA's), (280, 41924), (340, 42038), (385, 42122), (398, 42176), (410, 42209), (419, 42224),

Gene: Jalammah_27 Start: 21946, Stop: 22749, Start Num: 156

Candidate Starts for Jalammah_27:

(Start: 156 @21946 has 75 MA's), (Start: 184 @21994 has 1 MA's), (Start: 196 @22006 has 1 MA's), (207, 22021), (225, 22057), (268, 22150), (291, 22201), (315, 22258), (319, 22261), (330, 22279), (337, 22291), (339, 22294), (340, 22297), (410, 22474), (423, 22495), (425, 22501), (527, 22693), (536, 22717), (547, 22738),

Gene: Jalebi_86 Start: 59669, Stop: 60520, Start Num: 152

Candidate Starts for Jalebi_86:

(139, 59645), (140, 59648), (Start: 152 @59669 has 27 MA's), (Start: 158 @59678 has 1 MA's), (Start: 171 @59699 has 34 MA's), (201, 59741), (205, 59747), (228, 59792), (275, 59897), (280, 59906), (289, 59933), (293, 59945), (309, 59984), (392, 60164), (412, 60230), (416, 60239), (430, 60269), (444, 60296), (456, 60320), (478, 60374), (496, 60419), (502, 60431), (533, 60497),

Gene: Jambalaya_44 Start: 35970, Stop: 36725, Start Num: 151

Candidate Starts for Jambalaya_44:

(100, 35874), (Start: 151 @35970 has 15 MA's), (206, 36042), (266, 36150), (288, 36195), (376, 36345), (382, 36351), (392, 36378), (405, 36426), (455, 36528), (505, 36612), (540, 36684),

Gene: JasperJr_25 Start: 21156, Stop: 21959, Start Num: 156

Candidate Starts for JasperJr_25:

(Start: 156 @21156 has 75 MA's), (Start: 184 @21204 has 1 MA's), (Start: 196 @21216 has 1 MA's), (207, 21231), (225, 21267), (268, 21360), (291, 21411), (315, 21468), (319, 21471), (330, 21489), (337, 21501), (339, 21504), (340, 21507), (410, 21684), (423, 21705), (425, 21711), (506, 21867), (527, 21903), (536, 21927), (547, 21948),

Gene: JeanGrey_132 Start: 99191, Stop: 99985, Start Num: 171

Candidate Starts for JeanGrey_132:

(Start: 162 @99176 has 1 MA's), (Start: 171 @99191 has 34 MA's), (213, 99260), (242, 99323), (313, 99482), (330, 99506), (337, 99518), (385, 99623), (405, 99698), (414, 99725), (429, 99767), (442, 99788), (450, 99803), (506, 99935), (515, 99959), (519, 99968),

Gene: Jifall16_18 Start: 8868, Stop: 9593, Start Num: 119

Candidate Starts for Jifall16_18:

(Start: 119 @8868 has 26 MA's), (143, 8892), (172, 8925), (210, 8928), (231, 8964), (235, 8979), (257, 9021), (331, 9168), (405, 9360), (457, 9462), (475, 9492), (487, 9513), (493, 9528), (520, 9588),

Gene: Jodelie19_31 Start: 23744, Stop: 24532, Start Num: 171

Candidate Starts for Jodelie19_31:

(Start: 171 @23744 has 34 MA's), (197, 23789), (215, 23819), (220, 23831), (242, 23885), (310, 24032), (337, 24074), (369, 24158), (408, 24263), (409, 24266), (440, 24341), (506, 24488),

Gene: Jojo24_48 Start: 32326, Stop: 33183, Start Num: 128

Candidate Starts for Jojo24_48:

(2, 30784), (6, 31171), (7, 31207), (8, 31291), (10, 31480), (12, 31555), (13, 31585), (15, 31714), (50, 32113), (75, 32212), (79, 32221), (90, 32251), (106, 32281), (111, 32290), (114, 32296), (Start: 128 @32326 has 5 MA's), (233, 32509), (306, 32677), (331, 32710), (332, 32713), (347, 32746), (357, 32767), (381, 32821), (385, 32827), (409, 32914), (458, 33025), (460, 33028), (462, 33034), (476,

33070), (489, 33097), (519, 33172),

Gene: JuJu_26 Start: 21224, Stop: 22018, Start Num: 155

Candidate Starts for JuJu_26:

(Start: 155 @21224 has 22 MA's), (Start: 184 @21266 has 1 MA's), (Start: 196 @21278 has 1 MA's), (225, 21329), (268, 21422), (291, 21473), (315, 21530), (319, 21533), (330, 21551), (337, 21563), (339, 21566), (340, 21569), (410, 21746), (423, 21767), (527, 21965), (536, 21989), (547, 22007),

Gene: Jumbo_41 Start: 43925, Stop: 44704, Start Num: 176

Candidate Starts for Jumbo_41:

(Start: 176 @43925 has 2 MA's), (212, 43979), (230, 44015), (275, 44117), (284, 44138), (292, 44162), (339, 44240), (373, 44330), (385, 44348), (401, 44411), (410, 44441), (427, 44477), (451, 44528),

Gene: Kabluna_21 Start: 8839, Stop: 9630, Start Num: 124

Candidate Starts for Kabluna_21:

(Start: 124 @8839 has 8 MA's), (Start: 156 @8884 has 75 MA's), (Start: 196 @8947 has 1 MA's), (205, 8959), (Start: 208 @8965 has 1 MA's), (216, 8980), (231, 9004), (234, 9013), (257, 9061), (276, 9097), (331, 9208), (341, 9229), (351, 9250), (475, 9535), (487, 9556), (489, 9565), (493, 9571), (508, 9604),

Gene: Kabocha_32 Start: 22381, Stop: 23079, Start Num: 119

Candidate Starts for Kabocha_32:

(Start: 112 @22363 has 1 MA's), (Start: 119 @22381 has 26 MA's), (Start: 208 @22444 has 1 MA's), (227, 22480), (259, 22540), (266, 22552), (276, 22573), (290, 22606), (303, 22636), (304, 22639), (313, 22660), (320, 22666), (323, 22672), (336, 22693), (385, 22798), (388, 22807), (406, 22876), (408, 22882), (427, 22918), (431, 22930), (475, 22969), (487, 22990), (516, 23059), (525, 23071), (526, 23074),

Gene: Kamaru_28 Start: 21606, Stop: 22229, Start Num: 195

Candidate Starts for Kamaru_28:

(42, 21231), (52, 21288), (62, 21333), (78, 21387), (80, 21390), (94, 21426), (Start: 112 @21471 has 1 MA's), (113, 21474), (Start: 195 @21606 has 27 MA's), (Start: 200 @21612 has 2 MA's), (217, 21642), (224, 21657), (254, 21717), (293, 21798), (309, 21837), (349, 21909), (380, 21972), (395, 22017), (399, 22035), (406, 22056), (409, 22065), (500, 22197), (506, 22206), (510, 22218),

Gene: Kamashten_43 Start: 39019, Stop: 39753, Start Num: 156

Candidate Starts for Kamashten_43:

(Start: 120 @38962 has 3 MA's), (Start: 156 @39019 has 75 MA's), (Start: 167 @39037 has 3 MA's), (225, 39124), (237, 39151), (265, 39199), (274, 39217), (291, 39259), (335, 39337), (360, 39379), (375, 39412), (427, 39547), (446, 39586), (501, 39685), (517, 39712), (534, 39745),

Gene: Kampe_40 Start: 40828, Stop: 41550, Start Num: 179

Candidate Starts for Kampe_40:

(Start: 179 @40828 has 5 MA's), (212, 40882), (256, 40975), (291, 41056), (304, 41089), (352, 41167), (410, 41329), (450, 41389), (498, 41503),

Gene: KappaFarmDelta_27 Start: 21652, Stop: 22440, Start Num: 155

Candidate Starts for KappaFarmDelta_27:

(24, 21259), (48, 21388), (77, 21499), (89, 21526), (103, 21562), (Start: 155 @21652 has 22 MA's), (Start: 184 @21694 has 1 MA's), (Start: 196 @21706 has 1 MA's), (225, 21757), (268, 21850), (291, 21901), (310, 21949), (315, 21958), (319, 21961), (330, 21979), (337, 21991), (339, 21994), (340, 21997), (410, 22174), (423, 22195), (527, 22393), (536, 22417),

Gene: Keitabear_45 Start: 40674, Stop: 41408, Start Num: 156

Candidate Starts for Keitabear_45:

(149, 40668), (Start: 156 @40674 has 75 MA's), (Start: 167 @40692 has 3 MA's), (225, 40779), (237, 40806), (265, 40854), (274, 40872), (291, 40914), (335, 40992), (360, 41034), (375, 41067), (427, 41202), (446, 41241), (501, 41340), (517, 41367), (534, 41400),

Gene: Kenna_27 Start: 21499, Stop: 22122, Start Num: 195

Candidate Starts for Kenna_27:

(42, 21124), (52, 21181), (62, 21226), (78, 21280), (80, 21283), (94, 21319), (Start: 112 @21364 has 1 MA's), (113, 21367), (Start: 195 @21499 has 27 MA's), (Start: 200 @21505 has 2 MA's), (217, 21535), (224, 21550), (254, 21610), (290, 21685), (309, 21730), (332, 21766), (349, 21802), (380, 21865), (395, 21910), (399, 21928), (406, 21949), (415, 21970), (500, 22090), (506, 22099), (510, 22111),

Gene: Kenosha_30 Start: 22860, Stop: 23648, Start Num: 171

Candidate Starts for Kenosha_30:

(Start: 171 @22860 has 34 MA's), (197, 22905), (220, 22947), (242, 23001), (246, 23007), (283, 23082), (333, 23184), (408, 23379), (409, 23382), (414, 23397), (440, 23457), (452, 23484), (506, 23604),

Gene: Kerry_27 Start: 19428, Stop: 20213, Start Num: 171

Candidate Starts for Kerry_27:

(Start: 171 @19428 has 34 MA's), (Start: 179 @19443 has 5 MA's), (Start: 208 @19491 has 1 MA's), (225, 19524), (242, 19569), (246, 19575), (309, 19713), (330, 19746), (337, 19758), (408, 19947), (409, 19950), (440, 20025), (452, 20052), (506, 20172),

Gene: Kewpiedoll_45 Start: 39960, Stop: 40694, Start Num: 156

Candidate Starts for Kewpiedoll_45:

(Start: 120 @39903 has 3 MA's), (Start: 156 @39960 has 75 MA's), (Start: 167 @39978 has 3 MA's), (225, 40065), (237, 40092), (265, 40140), (274, 40158), (291, 40200), (335, 40278), (360, 40320), (375, 40353), (427, 40488), (446, 40527), (501, 40626), (517, 40653), (534, 40686),

Gene: KidneyBean_19 Start: 9147, Stop: 9872, Start Num: 119

Candidate Starts for KidneyBean_19:

(Start: 119 @9147 has 26 MA's), (143, 9171), (172, 9204), (210, 9207), (231, 9243), (235, 9258), (257, 9300), (331, 9447), (405, 9639), (457, 9741), (475, 9771), (487, 9792), (493, 9807), (520, 9867),

Gene: Kiko_27 Start: 21413, Stop: 22117, Start Num: 174

Candidate Starts for Kiko_27:

(Start: 174 @21413 has 6 MA's), (217, 21482), (231, 21506), (258, 21566), (271, 21596), (276, 21605), (290, 21638), (302, 21668), (303, 21671), (313, 21695), (339, 21722), (355, 21761), (388, 21824), (399, 21872), (409, 21902), (411, 21908), (422, 21929), (431, 21959),

Gene: KimmyK_45 Start: 36905, Stop: 37660, Start Num: 151

Candidate Starts for KimmyK_45:

(108, 36827), (Start: 151 @36905 has 15 MA's), (206, 36977), (266, 37085), (288, 37130), (376, 37280), (382, 37286), (392, 37313), (405, 37361), (455, 37463), (505, 37547), (540, 37619),

Gene: Kita_27 Start: 22303, Stop: 22923, Start Num: 190

Candidate Starts for Kita_27:

(39, 21928), (78, 22099), (80, 22102), (Start: 112 @22183 has 1 MA's), (121, 22204), (Start: 190 @22303 has 15 MA's), (Start: 200 @22312 has 2 MA's), (224, 22357), (266, 22438), (309, 22537), (332, 22573), (356, 22624), (380, 22672), (399, 22735), (409, 22765), (437, 22816), (487, 22867),

(500, 22894),

Gene: Kroos_46 Start: 40063, Stop: 40806, Start Num: 156

Candidate Starts for Kroos_46:

(Start: 156 @40063 has 75 MA's), (Start: 167 @40081 has 3 MA's), (197, 40126), (225, 40171), (265, 40246), (274, 40264), (291, 40306), (302, 40333), (360, 40426), (363, 40438), (427, 40594), (431, 40606), (446, 40633), (467, 40666), (501, 40732), (517, 40759),

Gene: Kudrefre_120 Start: 65328, Stop: 66050, Start Num: 163

Candidate Starts for Kudrefre_120:

(Start: 163 @65328 has 4 MA's), (191, 65376), (Start: 208 @65403 has 1 MA's), (218, 65418), (291, 65550), (330, 65619), (394, 65760), (402, 65790), (434, 65862), (475, 65934), (522, 66033), (525, 66036),

Gene: Kurt_19 Start: 9384, Stop: 10109, Start Num: 119

Candidate Starts for Kurt_19:

(Start: 119 @9384 has 26 MA's), (143, 9408), (172, 9441), (210, 9444), (231, 9480), (235, 9495), (257, 9537), (331, 9684), (405, 9876), (457, 9978), (475, 10008), (487, 10029), (493, 10044), (520, 10104),

Gene: Kuwabara_27 Start: 20925, Stop: 21548, Start Num: 195

Candidate Starts for Kuwabara_27:

(42, 20550), (52, 20607), (62, 20652), (78, 20706), (80, 20709), (94, 20745), (Start: 112 @20790 has 1 MA's), (113, 20793), (Start: 195 @20925 has 27 MA's), (Start: 200 @20931 has 2 MA's), (217, 20961), (224, 20976), (254, 21036), (290, 21111), (309, 21156), (332, 21192), (349, 21228), (380, 21291), (399, 21354), (406, 21375), (409, 21384), (444, 21441), (500, 21516), (506, 21525),

Gene: Kwobi_46 Start: 40049, Stop: 40792, Start Num: 156

Candidate Starts for Kwobi_46:

(Start: 156 @40049 has 75 MA's), (Start: 167 @40067 has 3 MA's), (197, 40112), (225, 40157), (265, 40232), (274, 40250), (281, 40262), (291, 40292), (302, 40319), (360, 40412), (363, 40424), (427, 40580), (431, 40592), (446, 40619), (467, 40652), (501, 40718), (517, 40745),

Gene: Lamberg_23 Start: 18707, Stop: 19408, Start Num: 177

Candidate Starts for Lamberg_23:

(164, 18689), (166, 18692), (Start: 177 @18707 has 45 MA's), (231, 18800), (235, 18815), (253, 18851), (290, 18932), (303, 18965), (305, 18971), (339, 19016), (355, 19055), (409, 19193), (411, 19199), (423, 19223), (427, 19238), (510, 19400),

Gene: Lambo_86 Start: 58781, Stop: 59629, Start Num: 152

Candidate Starts for Lambo_86:

(139, 58757), (140, 58760), (Start: 147 @58769 has 1 MA's), (Start: 152 @58781 has 27 MA's), (Start: 165 @58799 has 1 MA's), (Start: 171 @58808 has 34 MA's), (201, 58850), (205, 58856), (228, 58901), (275, 59006), (289, 59042), (293, 59054), (328, 59123), (330, 59126), (337, 59138), (392, 59273), (412, 59339), (416, 59348), (430, 59378), (454, 59426), (456, 59429), (478, 59483), (496, 59528), (502, 59540), (533, 59606),

Gene: Lennon_45 Start: 40763, Stop: 41497, Start Num: 156

Candidate Starts for Lennon_45:

(Start: 120 @40706 has 3 MA's), (Start: 156 @40763 has 75 MA's), (Start: 167 @40781 has 3 MA's), (225, 40868), (237, 40895), (265, 40943), (274, 40961), (291, 41003), (335, 41081), (360, 41123), (375, 41156), (427, 41291), (446, 41330), (501, 41429), (517, 41456), (534, 41489),

Gene: Leonard_44 Start: 39063, Stop: 39782, Start Num: 157

Candidate Starts for Leonard_44:

(Start: 157 @39063 has 6 MA's), (169, 39078), (Start: 196 @39117 has 1 MA's), (219, 39156), (225, 39168), (248, 39207), (265, 39228), (382, 39447), (388, 39456), (392, 39474), (397, 39495), (410, 39534), (446, 39609), (501, 39708), (524, 39747), (533, 39768),

Gene: Leroy_28 Start: 21524, Stop: 22147, Start Num: 195

Candidate Starts for Leroy_28:

(42, 21149), (52, 21206), (62, 21251), (78, 21305), (80, 21308), (94, 21344), (Start: 112 @21389 has 1 MA's), (113, 21392), (Start: 195 @21524 has 27 MA's), (Start: 200 @21530 has 2 MA's), (217, 21560), (224, 21575), (254, 21635), (293, 21716), (309, 21755), (349, 21827), (380, 21890), (395, 21935), (399, 21953), (406, 21974), (409, 21983), (500, 22115), (506, 22124), (510, 22136),

Gene: Ligma_42 Start: 35273, Stop: 35995, Start Num: 177

Candidate Starts for Ligma_42:

(29, 34883), (64, 35060), (104, 35168), (Start: 177 @35273 has 45 MA's), (262, 35435), (282, 35480), (305, 35543), (313, 35561), (339, 35588), (370, 35666), (372, 35669), (399, 35738), (409, 35768), (411, 35774), (502, 35963),

Gene: LilHam_43 Start: 38650, Stop: 39393, Start Num: 156

Candidate Starts for LilHam_43:

(Start: 156 @38650 has 75 MA's), (Start: 167 @38668 has 3 MA's), (197, 38713), (225, 38758), (265, 38833), (274, 38851), (291, 38893), (360, 39013), (363, 39025), (412, 39145), (427, 39181), (431, 39193), (446, 39220), (467, 39253), (483, 39286), (501, 39319), (517, 39346),

Gene: Lila22_91 Start: 59162, Stop: 59992, Start Num: 165

Candidate Starts for Lila22_91:

(139, 59120), (140, 59123), (145, 59129), (Start: 152 @59144 has 27 MA's), (Start: 165 @59162 has 1 MA's), (Start: 171 @59171 has 34 MA's), (201, 59213), (205, 59219), (228, 59264), (275, 59369), (289, 59405), (293, 59417), (328, 59486), (330, 59489), (337, 59501), (392, 59636), (412, 59702), (416, 59711), (430, 59741), (454, 59789), (456, 59792), (478, 59846), (496, 59891), (502, 59903), (533, 59969),

Gene: Lilas_27 Start: 22035, Stop: 22775, Start Num: 158

Candidate Starts for Lilas_27:

(Start: 156 @22032 has 75 MA's), (Start: 158 @22035 has 1 MA's), (Start: 173 @22059 has 16 MA's), (185, 22077), (217, 22131), (258, 22215), (276, 22254), (291, 22290), (302, 22317), (339, 22371), (346, 22389), (388, 22482), (409, 22560), (411, 22566), (500, 22743), (509, 22761),

Gene: Lilbeanie_44 Start: 35096, Stop: 35851, Start Num: 156

Candidate Starts for Lilbeanie_44:

(125, 35048), (Start: 156 @35096 has 75 MA's), (169, 35111), (Start: 196 @35150 has 1 MA's), (205, 35162), (207, 35165), (275, 35306), (291, 35345), (309, 35390), (360, 35471), (392, 35540), (401, 35576), (410, 35600),

Gene: LitninMcQueen_27 Start: 21255, Stop: 21878, Start Num: 195

Candidate Starts for LitninMcQueen_27:

(42, 20880), (52, 20937), (62, 20982), (78, 21036), (80, 21039), (94, 21075), (Start: 112 @21120 has 1 MA's), (113, 21123), (Start: 195 @21255 has 27 MA's), (Start: 200 @21261 has 2 MA's), (217, 21291), (224, 21306), (254, 21366), (309, 21486), (349, 21558), (380, 21621), (395, 21666), (399, 21684), (406, 21705), (409, 21714), (500, 21846), (506, 21855), (510, 21867),

Gene: LittleMunchkin_44 Start: 38558, Stop: 39280, Start Num: 175

Candidate Starts for LittleMunchkin_44:

(74, 38360), (100, 38423), (104, 38432), (Start: 175 @38558 has 6 MA's), (258, 38717), (262, 38723), (271, 38747), (282, 38768), (287, 38783), (305, 38831), (340, 38879), (372, 38954), (399, 39023), (409, 39053), (433, 39113), (465, 39161), (508, 39260),

Gene: Lollipop1437_23 Start: 10516, Stop: 11289, Start Num: 119

Candidate Starts for Lollipop1437_23:

(Start: 119 @10516 has 26 MA's), (Start: 208 @10624 has 1 MA's), (210, 10627), (235, 10678), (257, 10720), (309, 10834), (341, 10888), (487, 11209), (511, 11263),

Gene: LonelyBoi_27 Start: 22523, Stop: 23143, Start Num: 195

Candidate Starts for LonelyBoi_27:

(144, 22436), (Start: 195 @22523 has 27 MA's), (Start: 200 @22529 has 2 MA's), (217, 22559), (224, 22574), (226, 22577), (239, 22610), (266, 22655), (290, 22709), (309, 22754), (349, 22826), (380, 22889), (399, 22952), (437, 23033), (500, 23111), (506, 23120), (507, 23123),

Gene: LordFarquaad_24 Start: 19791, Stop: 20498, Start Num: 177

Candidate Starts for LordFarquaad_24:

(98, 19647), (Start: 177 @19791 has 45 MA's), (211, 19848), (231, 19887), (258, 19947), (266, 19965), (267, 19968), (276, 19986), (291, 20022), (292, 20025), (305, 20058), (313, 20076), (339, 20103), (370, 20181), (399, 20250), (409, 20280), (411, 20286), (510, 20490),

Gene: Love_49 Start: 41211, Stop: 41945, Start Num: 156

Candidate Starts for Love_49:

(82, 41064), (Start: 120 @41154 has 3 MA's), (Start: 156 @41211 has 75 MA's), (Start: 167 @41229 has 3 MA's), (225, 41316), (237, 41343), (265, 41391), (274, 41409), (291, 41451), (335, 41529), (360, 41571), (375, 41604), (427, 41739), (446, 41778), (501, 41877), (517, 41904), (534, 41937),

Gene: Lton_23 Start: 18736, Stop: 19437, Start Num: 177

Candidate Starts for Lton_23:

(164, 18718), (166, 18721), (Start: 177 @18736 has 45 MA's), (235, 18844), (253, 18880), (290, 18961), (303, 18994), (305, 19000), (339, 19045), (355, 19084), (409, 19222), (411, 19228), (439, 19285), (510, 19429),

Gene: Lucky10_24 Start: 19603, Stop: 20307, Start Num: 177

Candidate Starts for Lucky10_24:

(Start: 177 @19603 has 45 MA's), (211, 19660), (231, 19699), (271, 19789), (282, 19810), (284, 19813), (292, 19837), (302, 19861), (303, 19864), (309, 19879), (339, 19915), (370, 19993), (390, 20020), (402, 20071), (409, 20092), (496, 20269), (510, 20299),

Gene: LuckyLeo_84 Start: 58457, Stop: 59287, Start Num: 165

Candidate Starts for LuckyLeo_84:

(139, 58415), (140, 58418), (Start: 147 @58427 has 1 MA's), (Start: 152 @58439 has 27 MA's), (Start: 165 @58457 has 1 MA's), (Start: 171 @58466 has 34 MA's), (Start: 184 @58490 has 1 MA's), (201, 58508), (231, 58565), (289, 58700), (304, 58739), (309, 58751), (330, 58784), (337, 58796), (346, 58817), (385, 58904), (392, 58931), (418, 59009), (430, 59036), (433, 59042), (443, 59057), (444, 59063), (478, 59141), (493, 59177), (534, 59267),

Gene: Lutum_28 Start: 21499, Stop: 22122, Start Num: 195

Candidate Starts for Lutum_28:

(42, 21124), (52, 21181), (62, 21226), (78, 21280), (80, 21283), (94, 21319), (Start: 112 @21364 has 1 MA's), (113, 21367), (Start: 195 @21499 has 27 MA's), (Start: 200 @21505 has 2 MA's), (217, 21535), (224, 21550), (254, 21610), (290, 21685), (309, 21730), (332, 21766), (349, 21802), (380, 21865), (395, 21910), (399, 21928), (406, 21949), (415, 21970), (500, 22090), (506, 22099), (510, 22111),

Gene: Lysidious_26 Start: 21676, Stop: 22476, Start Num: 156

Candidate Starts for Lysidious_26:

(Start: 156 @21676 has 75 MA's), (Start: 184 @21724 has 1 MA's), (Start: 196 @21736 has 1 MA's), (207, 21751), (225, 21787), (268, 21880), (290, 21928), (291, 21931), (310, 21979), (319, 21991), (330, 22009), (337, 22021), (339, 22024), (340, 22027), (410, 22204), (423, 22225), (425, 22231), (527, 22423), (536, 22447),

Gene: MacGully_23 Start: 9496, Stop: 10359, Start Num: 131

Candidate Starts for MacGully_23:

(27, 9142), (34, 9184), (Start: 131 @9496 has 6 MA's), (169, 9559), (178, 9574), (234, 9679), (238, 9691), (247, 9712), (290, 9802), (300, 9829), (316, 9853), (333, 9883), (345, 9904), (385, 9979), (409, 10066), (427, 10111), (467, 10183), (471, 10189), (474, 10201), (527, 10282), (539, 10315), (545, 10327),

Gene: Madeline_25 Start: 22607, Stop: 23224, Start Num: 189

Candidate Starts for Madeline_25:

(121, 22508), (153, 22547), (Start: 174 @22580 has 6 MA's), (Start: 189 @22607 has 20 MA's), (Start: 200 @22616 has 2 MA's), (224, 22658), (231, 22670), (254, 22718), (266, 22739), (276, 22760), (290, 22793), (309, 22838), (332, 22874), (334, 22877), (356, 22925), (399, 23036), (409, 23066), (437, 23117), (500, 23195),

Gene: Madvan_31 Start: 22092, Stop: 22880, Start Num: 171

Candidate Starts for Madvan_31:

(Start: 171 @22092 has 34 MA's), (197, 22137), (215, 22167), (220, 22179), (242, 22233), (246, 22239), (269, 22284), (310, 22380), (322, 22398), (327, 22407), (337, 22422), (408, 22611), (409, 22614), (414, 22629), (440, 22689), (452, 22716), (506, 22836),

Gene: Magel_27 Start: 19428, Stop: 20213, Start Num: 171

Candidate Starts for Magel_27:

(Start: 171 @19428 has 34 MA's), (Start: 179 @19443 has 5 MA's), (Start: 208 @19491 has 1 MA's), (225, 19524), (242, 19569), (246, 19575), (309, 19713), (330, 19746), (337, 19758), (408, 19947), (409, 19950), (440, 20025), (452, 20052), (506, 20172),

Gene: MagicMan_26 Start: 21754, Stop: 22467, Start Num: 177

Candidate Starts for MagicMan_26:

(Start: 142 @21697 has 1 MA's), (Start: 177 @21754 has 45 MA's), (231, 21847), (235, 21862), (258, 21907), (292, 21985), (302, 22009), (342, 22072), (346, 22081), (385, 22156), (405, 22231), (409, 22243), (411, 22249), (476, 22384),

Gene: Mahdia_35 Start: 27405, Stop: 28184, Start Num: 159

Candidate Starts for Mahdia_35:

(Start: 159 @27405 has 16 MA's), (Start: 165 @27414 has 1 MA's), (197, 27459), (231, 27522), (263, 27579), (273, 27600), (279, 27609), (280, 27612), (284, 27624), (302, 27672), (303, 27675), (311, 27696), (313, 27699), (333, 27732), (432, 27966), (447, 27993), (515, 28134), (527, 28155), (529, 28158),

Gene: MakoManhole_45 Start: 37571, Stop: 38293, Start Num: 177

Candidate Starts for MakoManhole_45:

(85, 37385), (Start: 177 @37571 has 45 MA's), (229, 37664), (262, 37733), (273, 37760), (277, 37766), (339, 37880), (381, 37964), (409, 38057), (423, 38087),

Gene: Malachai_26 Start: 21633, Stop: 22436, Start Num: 156

Candidate Starts for Malachai_26:

(Start: 156 @21633 has 75 MA's), (Start: 184 @21681 has 1 MA's), (Start: 196 @21693 has 1 MA's), (207, 21708), (225, 21744), (268, 21837), (291, 21888), (315, 21945), (319, 21948), (330, 21966), (337, 21978), (339, 21981), (340, 21984), (410, 22161), (423, 22182), (425, 22188), (506, 22344), (527, 22380), (536, 22404), (547, 22425),

Gene: Malibo_27 Start: 21379, Stop: 21999, Start Num: 189

Candidate Starts for Malibo_27:

(Start: 189 @21379 has 20 MA's), (198, 21385), (224, 21430), (231, 21442), (276, 21532), (290, 21565), (309, 21610), (334, 21649), (356, 21697), (364, 21718), (399, 21808), (409, 21838), (437, 21889), (500, 21967),

Gene: Malisha_30 Start: 24037, Stop: 24663, Start Num: 189

Candidate Starts for Malisha_30:

(Start: 189 @24037 has 20 MA's), (224, 24091), (235, 24118), (254, 24151), (266, 24172), (290, 24226), (298, 24244), (332, 24307), (334, 24310), (336, 24313), (349, 24343), (380, 24406), (399, 24469), (409, 24499), (500, 24631), (506, 24640),

Gene: Manasvini_27 Start: 22303, Stop: 22923, Start Num: 190

Candidate Starts for Manasvini_27:

(39, 21928), (78, 22099), (80, 22102), (Start: 112 @22183 has 1 MA's), (121, 22204), (Start: 190 @22303 has 15 MA's), (Start: 200 @22312 has 2 MA's), (224, 22357), (266, 22438), (309, 22537), (332, 22573), (356, 22624), (380, 22672), (399, 22735), (409, 22765), (437, 22816), (487, 22867), (500, 22894),

Gene: Maridalia_26 Start: 22303, Stop: 22923, Start Num: 190

Candidate Starts for Maridalia_26:

(39, 21928), (78, 22099), (80, 22102), (Start: 112 @22183 has 1 MA's), (121, 22204), (Start: 190 @22303 has 15 MA's), (Start: 200 @22312 has 2 MA's), (224, 22357), (266, 22438), (309, 22537), (332, 22573), (356, 22624), (380, 22672), (399, 22735), (409, 22765), (437, 22816), (487, 22867), (500, 22894),

Gene: Marietta_19 Start: 7689, Stop: 8432, Start Num: 170

Candidate Starts for Marietta_19:

(102, 7560), (168, 7686), (Start: 170 @7689 has 2 MA's), (Start: 208 @7752 has 1 MA's), (210, 7755), (216, 7767), (257, 7848), (331, 7998), (343, 8022), (357, 8055), (405, 8187), (464, 8301), (469, 8313), (487, 8349), (511, 8403),

Gene: Mariokart_42 Start: 35106, Stop: 35828, Start Num: 177

Candidate Starts for Mariokart_42:

(1, 33240), (3, 33684), (4, 33756), (5, 33807), (9, 33999), (11, 34224), (20, 34527), (Start: 177 @35106 has 45 MA's), (258, 35262), (262, 35268), (282, 35313), (290, 35337), (305, 35376), (309, 35385), (313, 35394), (339, 35421), (340, 35424), (399, 35571), (409, 35601), (411, 35607), (468, 35718), (477, 35742), (500, 35793), (508, 35808),

Gene: Marteena_27 Start: 21910, Stop: 22626, Start Num: 173

Candidate Starts for Marteena_27:

(Start: 156 @21883 has 75 MA's), (Start: 158 @21886 has 1 MA's), (Start: 173 @21910 has 16 MA's), (185, 21928), (217, 21982), (258, 22066), (276, 22105), (291, 22141), (302, 22168), (339, 22222), (346, 22240), (388, 22333), (409, 22411), (411, 22417), (500, 22594), (509, 22612),

Gene: Maselop_20 Start: 9989, Stop: 10885, Start Num: 131

Candidate Starts for Maselop_20:

(46, 9752), (Start: 131 @9989 has 6 MA's), (178, 10067), (227, 10154), (244, 10202), (254, 10217), (295, 10295), (312, 10340), (385, 10472), (412, 10565), (420, 10580), (471, 10679), (503, 10760), (527, 10808), (545, 10853),

Gene: Matteo_23 Start: 18653, Stop: 19369, Start Num: 173

Candidate Starts for Matteo_23:

(Start: 156 @18626 has 75 MA's), (Start: 158 @18629 has 1 MA's), (Start: 173 @18653 has 16 MA's), (185, 18671), (217, 18725), (258, 18809), (276, 18848), (291, 18884), (302, 18911), (339, 18965), (346, 18983), (370, 19046), (388, 19076), (409, 19154), (411, 19160), (512, 19361),

Gene: Mbo2_63 Start: 49136, Stop: 48321, Start Num: 117

Candidate Starts for Mbo2_63:

(117, 49136), (169, 49061), (178, 49052), (191, 49028), (207, 49007), (231, 48959), (291, 48863), (300, 48839), (366, 48725), (408, 48608), (421, 48587), (427, 48569), (486, 48458), (495, 48443), (538, 48350),

Gene: Mbo4_54 Start: 39648, Stop: 40400, Start Num: 162

Candidate Starts for Mbo4_54:

(51, 39369), (54, 39378), (60, 39417), (63, 39426), (68, 39444), (144, 39618), (153, 39636), (Start: 162 @39648 has 1 MA's), (Start: 184 @39687 has 1 MA's), (192, 39702), (227, 39756), (272, 39837), (307, 39918), (354, 40002), (385, 40062), (392, 40089),

Gene: McKinley_47 Start: 40584, Stop: 41318, Start Num: 156

Candidate Starts for McKinley_47:

(82, 40437), (Start: 120 @40527 has 3 MA's), (Start: 156 @40584 has 75 MA's), (Start: 167 @40602 has 3 MA's), (225, 40689), (237, 40716), (265, 40764), (274, 40782), (291, 40824), (335, 40902), (360, 40944), (375, 40977), (427, 41112), (446, 41151), (501, 41250), (517, 41277), (534, 41310),

Gene: Mcklovin_25 Start: 24000, Stop: 24788, Start Num: 155

Candidate Starts for Mcklovin_25:

(Start: 146 @23988 has 2 MA's), (Start: 155 @24000 has 22 MA's), (Start: 167 @24012 has 3 MA's), (169, 24015), (Start: 184 @24042 has 1 MA's), (Start: 196 @24054 has 1 MA's), (225, 24105), (268, 24198), (289, 24243), (290, 24246), (291, 24249), (319, 24309), (330, 24327), (337, 24339), (339, 24342), (340, 24345), (385, 24435), (410, 24522), (527, 24744), (536, 24768),

Gene: MelBins_45 Start: 39210, Stop: 39932, Start Num: 157

Candidate Starts for MelBins_45:

(Start: 157 @39210 has 6 MA's), (169, 39225), (Start: 196 @39264 has 1 MA's), (219, 39303), (225, 39315), (265, 39375), (325, 39498), (377, 39591), (382, 39597), (388, 39606), (397, 39645), (410, 39684), (446, 39759), (501, 39858), (524, 39897), (533, 39918),

Gene: Melba_25 Start: 21152, Stop: 21955, Start Num: 156

Candidate Starts for Melba_25:

(Start: 156 @21152 has 75 MA's), (Start: 184 @21200 has 1 MA's), (Start: 196 @21212 has 1 MA's), (207, 21227), (225, 21263), (268, 21356), (291, 21407), (315, 21464), (319, 21467), (330, 21485), (337, 21497), (339, 21500), (340, 21503), (410, 21680), (423, 21701), (425, 21707), (506, 21863), (527, 21899), (536, 21923), (547, 21944),

Gene: Mellie_24 Start: 20913, Stop: 21716, Start Num: 156

Candidate Starts for Mellie_24:

(Start: 156 @20913 has 75 MA's), (Start: 184 @20961 has 1 MA's), (Start: 196 @20973 has 1 MA's), (207, 20988), (268, 21117), (277, 21129), (291, 21168), (310, 21216), (315, 21225), (319, 21228), (330, 21246), (337, 21258), (339, 21261), (340, 21264), (410, 21441), (423, 21462), (425, 21468),

(527, 21660), (536, 21684), (547, 21705),

Gene: MerCougar_19 Start: 8841, Stop: 9629, Start Num: 124

Candidate Starts for MerCougar_19:

(Start: 124 @8841 has 8 MA's), (127, 8850), (192, 8940), (Start: 208 @8964 has 1 MA's), (216, 8979), (234, 9012), (257, 9060), (341, 9228), (351, 9249), (487, 9555), (489, 9564), (493, 9570), (496, 9579), (508, 9603),

Gene: Meyran_46 Start: 36292, Stop: 37098, Start Num: 152

Candidate Starts for Meyran_46:

(Start: 152 @36292 has 27 MA's), (Start: 196 @36355 has 1 MA's), (250, 36460), (252, 36466), (371, 36733), (399, 36814), (410, 36844), (413, 36850), (437, 36901), (506, 37027), (532, 37075),

Gene: MichaelScott_25 Start: 21603, Stop: 22391, Start Num: 155

Candidate Starts for MichaelScott_25:

(Start: 146 @21591 has 2 MA's), (Start: 155 @21603 has 22 MA's), (Start: 167 @21615 has 3 MA's), (169, 21618), (Start: 184 @21645 has 1 MA's), (Start: 196 @21657 has 1 MA's), (225, 21708), (268, 21801), (289, 21846), (290, 21849), (291, 21852), (319, 21912), (330, 21930), (337, 21942), (339, 21945), (340, 21948), (385, 22038), (410, 22125), (527, 22347), (536, 22371),

Gene: MintFen_25 Start: 21152, Stop: 21955, Start Num: 156

Candidate Starts for MintFen_25:

(Start: 156 @21152 has 75 MA's), (Start: 184 @21200 has 1 MA's), (Start: 196 @21212 has 1 MA's), (207, 21227), (225, 21263), (268, 21356), (291, 21407), (315, 21464), (319, 21467), (330, 21485), (337, 21497), (339, 21500), (340, 21503), (410, 21680), (423, 21701), (425, 21707), (506, 21863), (527, 21899), (536, 21923), (547, 21944),

Gene: MissRona_27 Start: 21464, Stop: 22264, Start Num: 156

Candidate Starts for MissRona_27:

(82, 21314), (Start: 156 @21464 has 75 MA's), (Start: 184 @21512 has 1 MA's), (Start: 196 @21524 has 1 MA's), (225, 21575), (268, 21668), (291, 21719), (315, 21776), (319, 21779), (330, 21797), (337, 21809), (339, 21812), (340, 21815), (410, 21992), (423, 22013), (425, 22019), (441, 22055), (497, 22160), (506, 22175), (507, 22178), (527, 22211), (536, 22235),

Gene: Mocha12_24 Start: 19798, Stop: 20505, Start Num: 177

Candidate Starts for Mocha12_24:

(98, 19654), (Start: 177 @19798 has 45 MA's), (211, 19855), (231, 19894), (253, 19945), (258, 19954), (266, 19972), (267, 19975), (291, 20029), (292, 20032), (305, 20065), (313, 20083), (339, 20110), (370, 20188), (399, 20257), (401, 20263), (409, 20287), (411, 20293), (510, 20497),

Gene: ModicumRichard_33 Start: 27844, Stop: 28596, Start Num: 160

Candidate Starts for ModicumRichard_33:

(Start: 160 @27844 has 5 MA's), (Start: 196 @27895 has 1 MA's), (291, 28072), (349, 28171), (387, 28231), (410, 28309), (441, 28372), (472, 28435), (488, 28462), (543, 28564),

Gene: MoiGyank_91 Start: 59075, Stop: 59926, Start Num: 152

Candidate Starts for MoiGyank_91:

(139, 59051), (140, 59054), (Start: 152 @59075 has 27 MA's), (Start: 158 @59084 has 1 MA's), (Start: 171 @59105 has 34 MA's), (201, 59147), (205, 59153), (228, 59198), (275, 59303), (280, 59312), (289, 59339), (293, 59351), (309, 59390), (392, 59570), (412, 59636), (416, 59645), (430, 59675), (444, 59702), (456, 59726), (478, 59780), (496, 59825), (502, 59837), (533, 59903),

Gene: MoontowerMania_45 Start: 40419, Stop: 41153, Start Num: 156

Candidate Starts for MoontowerMania_45:

(82, 40272), (Start: 120 @40362 has 3 MA's), (Start: 156 @40419 has 75 MA's), (Start: 167 @40437 has 3 MA's), (225, 40524), (237, 40551), (265, 40599), (274, 40617), (291, 40659), (335, 40737), (360, 40779), (375, 40812), (427, 40947), (446, 40986), (501, 41085), (517, 41112), (534, 41145),

Gene: Moosehead_23 Start: 18651, Stop: 19352, Start Num: 177

Candidate Starts for Moosehead_23:

(Start: 177 @18651 has 45 MA's), (231, 18744), (235, 18759), (253, 18795), (290, 18876), (305, 18915), (342, 18969), (355, 18999), (409, 19137), (411, 19143), (510, 19344),

Gene: Morgana_33 Start: 27600, Stop: 28349, Start Num: 160

Candidate Starts for Morgana_33:

(28, 27204), (Start: 160 @27600 has 5 MA's), (Start: 196 @27651 has 1 MA's), (291, 27828), (337, 27909), (349, 27927), (387, 27984), (399, 28032), (410, 28062), (441, 28125), (472, 28188), (488, 28215), (543, 28317),

Gene: Morkie_24 Start: 19442, Stop: 20146, Start Num: 173

Candidate Starts for Morkie_24:

(Start: 173 @19442 has 16 MA's), (231, 19538), (271, 19628), (282, 19649), (284, 19652), (292, 19676), (302, 19700), (303, 19703), (309, 19718), (339, 19754), (370, 19832), (390, 19859), (402, 19910), (409, 19931), (496, 20108), (510, 20138),

Gene: MortyNRick_27 Start: 21231, Stop: 21854, Start Num: 195

Candidate Starts for MortyNRick_27:

(42, 20856), (52, 20913), (62, 20958), (78, 21012), (80, 21015), (94, 21051), (Start: 112 @21096 has 1 MA's), (113, 21099), (Start: 195 @21231 has 27 MA's), (Start: 200 @21237 has 2 MA's), (217, 21267), (224, 21282), (254, 21342), (290, 21417), (309, 21462), (332, 21498), (349, 21534), (380, 21597), (399, 21660), (406, 21681), (409, 21690), (444, 21747), (500, 21822), (506, 21831),

Gene: MossRose_45 Start: 37550, Stop: 38272, Start Num: 177

Candidate Starts for MossRose_45:

(85, 37364), (Start: 177 @37550 has 45 MA's), (229, 37643), (262, 37712), (273, 37739), (277, 37745), (339, 37859), (381, 37943), (409, 38036), (423, 38066),

Gene: Mossy_31 Start: 23518, Stop: 24303, Start Num: 171

Candidate Starts for Mossy_31:

(Start: 171 @23518 has 34 MA's), (242, 23659), (310, 23806), (327, 23833), (337, 23848), (369, 23932), (399, 24010), (408, 24037), (409, 24040), (440, 24115), (453, 24145),

Gene: Murp_26 Start: 21420, Stop: 22214, Start Num: 156

Candidate Starts for Murp_26:

(44, 21117), (60, 21204), (82, 21270), (Start: 156 @21420 has 75 MA's), (Start: 184 @21468 has 1 MA's), (Start: 196 @21480 has 1 MA's), (225, 21531), (268, 21624), (291, 21675), (310, 21723), (315, 21732), (319, 21735), (330, 21753), (337, 21765), (339, 21768), (340, 21771), (356, 21804), (410, 21948), (423, 21969), (527, 22167), (536, 22191),

Gene: Mutzi_43 Start: 37151, Stop: 37906, Start Num: 150

Candidate Starts for Mutzi_43:

(127, 37115), (140, 37136), (Start: 150 @37151 has 18 MA's), (206, 37223), (225, 37259), (266, 37331), (303, 37412), (376, 37526), (382, 37532), (392, 37559), (405, 37607), (455, 37709), (498, 37784), (505, 37793), (540, 37865), (543, 37871),

Gene: NHagos_43 Start: 36157, Stop: 36879, Start Num: 177

Candidate Starts for NHagos_43:

(Start: 177 @36157 has 45 MA's), (217, 36226), (229, 36250), (258, 36313), (262, 36319), (339, 36466), (387, 36562), (388, 36565), (409, 36643), (423, 36673), (427, 36688),

Gene: NadineRae_17 Start: 6891, Stop: 7682, Start Num: 123

Candidate Starts for NadineRae_17:

(Start: 123 @6891 has 2 MA's), (Start: 208 @7002 has 1 MA's), (210, 7005), (216, 7017), (257, 7098), (331, 7248), (343, 7272), (357, 7305), (405, 7437), (464, 7551), (469, 7563), (487, 7599), (507, 7644), (511, 7653),

Gene: Nadmeg_31 Start: 23523, Stop: 24311, Start Num: 171

Candidate Starts for Nadmeg_31:

(Start: 171 @23523 has 34 MA's), (197, 23568), (215, 23598), (220, 23610), (242, 23664), (246, 23670), (269, 23715), (310, 23811), (322, 23829), (333, 23847), (337, 23853), (408, 24042), (409, 24045), (424, 24081), (440, 24120), (452, 24147), (506, 24267),

Gene: NatB6_19 Start: 9475, Stop: 10200, Start Num: 119

Candidate Starts for NatB6_19:

(Start: 119 @9475 has 26 MA's), (143, 9499), (172, 9532), (210, 9535), (231, 9571), (235, 9586), (257, 9628), (331, 9775), (405, 9967), (457, 10069), (475, 10099), (487, 10120), (493, 10135), (520, 10195),

Gene: Natkenzie_46 Start: 40683, Stop: 41405, Start Num: 159

Candidate Starts for Natkenzie_46:

(61, 40467), (99, 40572), (Start: 159 @40683 has 16 MA's), (225, 40788), (231, 40797), (265, 40848), (274, 40866), (291, 40908), (330, 40974), (333, 40980), (337, 40986), (370, 41052), (410, 41151), (501, 41325), (514, 41346), (521, 41361),

Gene: Neobush_27 Start: 22303, Stop: 22923, Start Num: 190

Candidate Starts for Neobush_27:

(39, 21928), (78, 22099), (80, 22102), (Start: 112 @22183 has 1 MA's), (121, 22204), (Start: 190 @22303 has 15 MA's), (Start: 200 @22312 has 2 MA's), (224, 22357), (266, 22438), (309, 22537), (332, 22573), (356, 22624), (380, 22672), (399, 22735), (409, 22765), (437, 22816), (487, 22867), (500, 22894),

Gene: Nettuno_23 Start: 18707, Stop: 19408, Start Num: 177

Candidate Starts for Nettuno_23:

(164, 18692), (166, 18695), (Start: 177 @18707 has 45 MA's), (231, 18800), (235, 18815), (253, 18851), (290, 18932), (303, 18965), (305, 18971), (339, 19016), (355, 19055), (409, 19193), (411, 19199), (423, 19223), (427, 19238), (510, 19400),

Gene: Neville_115 Start: 65621, Stop: 66349, Start Num: 159

Candidate Starts for Neville_115:

(Start: 159 @65621 has 16 MA's), (191, 65675), (194, 65681), (199, 65687), (221, 65729), (236, 65765), (272, 65819), (335, 65927), (346, 65951), (385, 66023), (427, 66143), (448, 66179), (451, 66188), (460, 66203), (529, 66338),

Gene: Nithya_30 Start: 22307, Stop: 23095, Start Num: 171

Candidate Starts for Nithya_30:

(Start: 171 @22307 has 34 MA's), (197, 22352), (215, 22382), (220, 22394), (242, 22448), (310, 22595), (333, 22631), (337, 22637), (408, 22826), (409, 22829), (429, 22886), (440, 22904), (452, 22931), (506, 23051),

Gene: NorManre_91 Start: 59988, Stop: 60839, Start Num: 152

Candidate Starts for NorManre_91:

(139, 59964), (140, 59967), (Start: 152 @59988 has 27 MA's), (Start: 158 @59997 has 1 MA's), (Start: 171 @60018 has 34 MA's), (201, 60060), (205, 60066), (228, 60111), (275, 60216), (280, 60225), (289, 60252), (293, 60264), (309, 60303), (392, 60483), (416, 60558), (430, 60588), (454, 60636), (456, 60639), (478, 60693), (496, 60738), (502, 60750), (533, 60816),

Gene: Nordenberg_40 Start: 39404, Stop: 40138, Start Num: 156

Candidate Starts for Nordenberg_40:

(82, 39257), (Start: 120 @39347 has 3 MA's), (Start: 156 @39404 has 75 MA's), (Start: 167 @39422 has 3 MA's), (225, 39509), (237, 39536), (265, 39584), (274, 39602), (291, 39644), (335, 39722), (360, 39764), (375, 39797), (427, 39932), (446, 39971), (501, 40070), (517, 40097), (534, 40130),

Gene: NosilaM_21 Start: 9718, Stop: 10509, Start Num: 124

Candidate Starts for NosilaM_21:

(Start: 124 @9718 has 8 MA's), (Start: 156 @9763 has 75 MA's), (Start: 196 @9826 has 1 MA's), (205, 9838), (Start: 208 @9844 has 1 MA's), (216, 9859), (231, 9883), (234, 9892), (257, 9940), (276, 9976), (331, 10087), (341, 10108), (351, 10129), (475, 10414), (487, 10435), (489, 10444), (493, 10450), (508, 10483),

Gene: NovaSharks_86 Start: 56889, Stop: 57740, Start Num: 152

Candidate Starts for NovaSharks_86:

(139, 56865), (140, 56868), (Start: 152 @56889 has 27 MA's), (Start: 165 @56910 has 1 MA's), (Start: 171 @56919 has 34 MA's), (201, 56961), (205, 56967), (228, 57012), (273, 57114), (275, 57117), (289, 57153), (293, 57165), (309, 57204), (328, 57234), (330, 57237), (337, 57249), (339, 57252), (392, 57384), (412, 57450), (416, 57459), (430, 57489), (444, 57516), (454, 57537), (478, 57594), (496, 57639), (533, 57717),

Gene: NovumRegina_19 Start: 9806, Stop: 10531, Start Num: 119

Candidate Starts for NovumRegina_19:

(Start: 119 @9806 has 26 MA's), (143, 9830), (172, 9863), (210, 9866), (231, 9902), (235, 9917), (257, 9959), (331, 10106), (405, 10298), (457, 10400), (475, 10430), (487, 10451), (493, 10466), (520, 10526),

Gene: Nubi_44 Start: 36296, Stop: 37051, Start Num: 150

Candidate Starts for Nubi_44:

(127, 36260), (140, 36281), (Start: 150 @36296 has 18 MA's), (206, 36368), (225, 36404), (266, 36476), (303, 36557), (376, 36671), (382, 36677), (392, 36704), (405, 36752), (455, 36854), (505, 36938), (540, 37010),

Gene: Nyceirae_51 Start: 36282, Stop: 37091, Start Num: 152

Candidate Starts for Nyceirae_51:

(Start: 152 @36282 has 27 MA's), (Start: 196 @36345 has 1 MA's), (252, 36456), (290, 36546), (346, 36669), (371, 36726), (398, 36804), (399, 36807), (410, 36837), (413, 36843), (437, 36894), (443, 36903), (470, 36948), (506, 37020), (532, 37068),

Gene: Nymphadora_25 Start: 22318, Stop: 22926, Start Num: 200

Candidate Starts for Nymphadora_25:

(121, 22210), (153, 22249), (Start: 174 @22282 has 6 MA's), (Start: 189 @22309 has 20 MA's), (Start: 200 @22318 has 2 MA's), (224, 22360), (231, 22372), (254, 22420), (266, 22441), (276, 22462), (290, 22495), (292, 22498), (309, 22540), (332, 22576), (356, 22627), (380, 22675), (399, 22738), (409, 22768), (437, 22819), (500, 22897),

Gene: ODay_32 Start: 23377, Stop: 24000, Start Num: 195

Candidate Starts for ODay_32:

(109, 23236), (125, 23269), (136, 23290), (141, 23293), (Start: 195 @23377 has 27 MA's), (Start: 200 @23383 has 2 MA's), (217, 23413), (224, 23428), (254, 23488), (290, 23563), (309, 23608), (332, 23644), (336, 23650), (349, 23680), (380, 23743), (399, 23806), (406, 23827), (409, 23836), (500, 23968), (506, 23977),

Gene: ObLaDi_33 Start: 27823, Stop: 28575, Start Num: 160

Candidate Starts for ObLaDi_33:

(Start: 160 @27823 has 5 MA's), (Start: 196 @27874 has 1 MA's), (291, 28051), (349, 28150), (387, 28210), (410, 28288), (441, 28351), (472, 28414), (488, 28441), (543, 28543),

Gene: Obliviate_25 Start: 21074, Stop: 21871, Start Num: 155

Candidate Starts for Obliviate_25:

(24, 20681), (48, 20810), (77, 20921), (89, 20948), (103, 20984), (Start: 155 @21074 has 22 MA's), (Start: 196 @21128 has 1 MA's), (207, 21143), (225, 21179), (268, 21272), (277, 21284), (290, 21320), (291, 21323), (310, 21371), (315, 21380), (319, 21383), (330, 21401), (337, 21413), (339, 21416), (340, 21419), (399, 21566), (410, 21596), (423, 21617), (425, 21623), (427, 21632), (527, 21815), (536, 21839), (547, 21860),

Gene: Octobien14_115 Start: 63857, Stop: 64579, Start Num: 163

Candidate Starts for Octobien14_115:

(107, 63755), (138, 63815), (Start: 163 @63857 has 4 MA's), (191, 63905), (286, 64067), (291, 64079), (394, 64289), (412, 64346), (427, 64376), (434, 64391), (475, 64463), (482, 64478), (522, 64562), (525, 64565),

Gene: Odesza_27 Start: 19428, Stop: 20213, Start Num: 171

Candidate Starts for Odesza_27:

(Start: 171 @19428 has 34 MA's), (Start: 179 @19443 has 5 MA's), (Start: 208 @19491 has 1 MA's), (225, 19524), (242, 19569), (246, 19575), (309, 19713), (330, 19746), (337, 19758), (408, 19947), (409, 19950), (440, 20025), (452, 20052), (506, 20172),

Gene: OhMyWard_30 Start: 22858, Stop: 23643, Start Num: 171

Candidate Starts for OhMyWard_30:

(Start: 171 @22858 has 34 MA's), (242, 22999), (310, 23146), (327, 23173), (337, 23188), (369, 23272), (408, 23377), (409, 23380), (440, 23455), (453, 23485),

Gene: Ohgeesy_25 Start: 21932, Stop: 22549, Start Num: 189

Candidate Starts for Ohgeesy_25:

(121, 21833), (153, 21872), (Start: 174 @21905 has 6 MA's), (Start: 189 @21932 has 20 MA's), (224, 21983), (231, 21995), (254, 22043), (266, 22064), (276, 22085), (290, 22118), (309, 22163), (332, 22199), (334, 22202), (356, 22250), (399, 22361), (409, 22391), (437, 22442), (500, 22520),

Gene: OlgasClover_30 Start: 23043, Stop: 23831, Start Num: 171

Candidate Starts for OlgasClover_30:

(Start: 171 @23043 has 34 MA's), (197, 23088), (215, 23118), (220, 23130), (242, 23184), (309, 23328), (310, 23331), (327, 23358), (337, 23373), (369, 23457), (408, 23562), (409, 23565), (440, 23640),

Gene: OneDirection_22 Start: 18679, Stop: 19380, Start Num: 177

Candidate Starts for OneDirection_22:

(166, 18664), (Start: 177 @18679 has 45 MA's), (187, 18697), (231, 18772), (235, 18787), (253, 18823), (290, 18904), (305, 18943), (339, 18988), (355, 19027), (409, 19165), (411, 19171), (423, 19195), (510, 19372),

Gene: Oogie_31 Start: 23271, Stop: 23969, Start Num: 119

Candidate Starts for Oogie_31:

(Start: 112 @23253 has 1 MA's), (Start: 119 @23271 has 26 MA's), (Start: 208 @23334 has 1 MA's), (227, 23370), (266, 23442), (276, 23463), (290, 23496), (303, 23526), (304, 23529), (313, 23550), (320, 23556), (323, 23562), (336, 23583), (385, 23688), (388, 23697), (406, 23766), (408, 23772), (427, 23808), (431, 23820), (475, 23859), (516, 23949), (525, 23961), (526, 23964),

Gene: Opie_26 Start: 21778, Stop: 22491, Start Num: 177

Candidate Starts for Opie_26:

(Start: 142 @21721 has 1 MA's), (Start: 177 @21778 has 45 MA's), (183, 21790), (231, 21871), (235, 21886), (258, 21931), (282, 21982), (302, 22033), (342, 22096), (346, 22105), (385, 22180), (405, 22255), (409, 22267), (411, 22273),

Gene: Orchid_39 Start: 40829, Stop: 41551, Start Num: 179

Candidate Starts for Orchid_39:

(Start: 179 @40829 has 5 MA's), (212, 40883), (256, 40976), (291, 41057), (304, 41090), (352, 41168), (410, 41330), (450, 41390), (498, 41504),

Gene: Oregano_25 Start: 21268, Stop: 22056, Start Num: 155

Candidate Starts for Oregano_25:

(Start: 146 @21256 has 2 MA's), (Start: 155 @21268 has 22 MA's), (Start: 167 @21280 has 3 MA's), (169, 21283), (Start: 184 @21310 has 1 MA's), (Start: 196 @21322 has 1 MA's), (225, 21373), (268, 21466), (289, 21511), (290, 21514), (291, 21517), (292, 21520), (319, 21577), (330, 21595), (337, 21607), (339, 21610), (340, 21613), (385, 21703), (410, 21790), (497, 21958), (527, 22012), (536, 22036),

Gene: OtterstedtS21_87 Start: 58792, Stop: 59643, Start Num: 152

Candidate Starts for OtterstedtS21_87:

(139, 58768), (140, 58771), (Start: 152 @58792 has 27 MA's), (Start: 158 @58801 has 1 MA's), (Start: 171 @58822 has 34 MA's), (201, 58864), (205, 58870), (228, 58915), (275, 59020), (289, 59056), (293, 59068), (309, 59107), (392, 59287), (412, 59353), (416, 59362), (430, 59392), (444, 59419), (456, 59443), (478, 59497), (496, 59542), (502, 59554), (533, 59620),

Gene: Outis_19 Start: 8535, Stop: 9323, Start Num: 124

Candidate Starts for Outis_19:

(Start: 124 @8535 has 8 MA's), (127, 8544), (192, 8634), (Start: 208 @8658 has 1 MA's), (216, 8673), (234, 8706), (257, 8754), (341, 8922), (351, 8943), (487, 9249), (489, 9258), (493, 9264), (496, 9273), (508, 9297),

Gene: PCoral7_26 Start: 21477, Stop: 22187, Start Num: 173

Candidate Starts for PCoral7_26:

(Start: 173 @21477 has 16 MA's), (181, 21489), (185, 21495), (258, 21633), (271, 21663), (291, 21708), (302, 21735), (313, 21762), (346, 21813), (379, 21882), (388, 21897), (390, 21903), (396, 21933), (409, 21975), (411, 21981), (431, 22032), (476, 22104), (506, 22167),

Gene: Pakusa_30 Start: 21310, Stop: 22008, Start Num: 119

Candidate Starts for Pakusa_30:

(Start: 112 @21292 has 1 MA's), (Start: 119 @21310 has 26 MA's), (Start: 208 @21373 has 1 MA's), (227, 21409), (259, 21469), (266, 21481), (276, 21502), (290, 21535), (303, 21565), (304, 21568), (313, 21589), (320, 21595), (323, 21601), (336, 21622), (385, 21727), (388, 21736), (406, 21805), (408, 21811), (427, 21847), (431, 21859), (475, 21898), (487, 21919), (516, 21988), (525, 22000), (526, 22003),

Gene: PantheRoc_25 Start: 21501, Stop: 22121, Start Num: 190

Candidate Starts for PantheRoc_25:

(39, 21126), (78, 21297), (80, 21300), (Start: 112 @21381 has 1 MA's), (121, 21402), (Start: 190 @21501 has 15 MA's), (Start: 200 @21510 has 2 MA's), (224, 21555), (266, 21636), (290, 21690), (309, 21735), (332, 21771), (356, 21822), (380, 21870), (399, 21933), (409, 21963), (437, 22014), (500, 22092),

Gene: Paries_48 Start: 40873, Stop: 41607, Start Num: 156

Candidate Starts for Paries_48:

(82, 40726), (Start: 120 @40816 has 3 MA's), (Start: 156 @40873 has 75 MA's), (Start: 167 @40891 has 3 MA's), (225, 40978), (237, 41005), (265, 41053), (274, 41071), (291, 41113), (335, 41191), (360, 41233), (375, 41266), (427, 41401), (446, 41440), (501, 41539), (517, 41566), (534, 41599),

Gene: ParvusTarda_86 Start: 58065, Stop: 58916, Start Num: 152

Candidate Starts for ParvusTarda_86:

(70, 57888), (83, 57915), (88, 57924), (91, 57939), (96, 57948), (139, 58041), (140, 58044), (Start: 152 @58065 has 27 MA's), (Start: 158 @58074 has 1 MA's), (Start: 171 @58095 has 34 MA's), (201, 58137), (205, 58143), (228, 58188), (273, 58290), (275, 58293), (289, 58329), (293, 58341), (328, 58410), (330, 58413), (337, 58425), (392, 58560), (412, 58626), (416, 58635), (430, 58665), (454, 58713), (456, 58716), (478, 58770), (496, 58815), (502, 58827), (533, 58893),

Gene: Patio_21 Start: 9753, Stop: 10526, Start Num: 119

Candidate Starts for Patio_21:

(Start: 119 @9753 has 26 MA's), (Start: 208 @9861 has 1 MA's), (210, 9864), (235, 9915), (257, 9957), (341, 10125), (487, 10446), (511, 10500),

Gene: Patos_91 Start: 59987, Stop: 60838, Start Num: 152

Candidate Starts for Patos_91:

(139, 59963), (140, 59966), (Start: 152 @59987 has 27 MA's), (Start: 158 @59996 has 1 MA's), (Start: 171 @60017 has 34 MA's), (201, 60059), (205, 60065), (228, 60110), (275, 60215), (280, 60224), (289, 60251), (293, 60263), (309, 60302), (392, 60482), (416, 60557), (430, 60587), (454, 60635), (456, 60638), (478, 60692), (496, 60737), (502, 60749), (533, 60815),

Gene: PatrickStar_40 Start: 40828, Stop: 41550, Start Num: 179

Candidate Starts for PatrickStar_40:

(Start: 179 @40828 has 5 MA's), (212, 40882), (256, 40975), (291, 41056), (304, 41089), (352, 41167), (410, 41329), (450, 41389), (498, 41503),

Gene: Penjamin420_87 Start: 58761, Stop: 59612, Start Num: 152

Candidate Starts for Penjamin420_87:

(139, 58737), (140, 58740), (Start: 152 @58761 has 27 MA's), (Start: 158 @58770 has 1 MA's), (Start: 171 @58791 has 34 MA's), (201, 58833), (205, 58839), (275, 58989), (280, 58998), (289, 59025), (293, 59037), (309, 59076), (392, 59256), (412, 59322), (416, 59331), (430, 59361), (444, 59388), (456, 59412), (478, 59466), (496, 59511), (502, 59523), (533, 59589),

Gene: Pepperoni_24 Start: 19528, Stop: 20244, Start Num: 173

Candidate Starts for Pepperoni_24:

(Start: 156 @19501 has 75 MA's), (Start: 158 @19504 has 1 MA's), (Start: 173 @19528 has 16 MA's), (185, 19546), (258, 19684), (276, 19723), (291, 19759), (302, 19786), (339, 19840), (346, 19858), (370, 19921), (388, 19951), (409, 20029), (411, 20035), (500, 20212), (512, 20236),

Gene: Pepy6_033 Start: 28827, Stop: 29618, Start Num: 171

Candidate Starts for Pepy6_033:

(Start: 163 @28815 has 4 MA's), (Start: 171 @28827 has 34 MA's), (242, 28968), (303, 29103), (309, 29118), (339, 29166), (388, 29277), (405, 29343), (409, 29355), (429, 29412), (476, 29511), (499, 29565),

Gene: Peregrin_29 Start: 8642, Stop: 7968, Start Num: 204

Candidate Starts for Peregrin_29:

(188, 8666), (193, 8657), (Start: 204 @8642 has 3 MA's), (236, 8576), (238, 8573), (246, 8552), (264, 8519), (294, 8438), (344, 8345), (365, 8291), (389, 8252), (401, 8201), (408, 8180), (426, 8132), (461, 8060),

Gene: Periwinkle_30 Start: 21968, Stop: 22591, Start Num: 195

Candidate Starts for Periwinkle_30:

(42, 21593), (52, 21650), (62, 21695), (78, 21749), (80, 21752), (94, 21788), (Start: 112 @21833 has 1 MA's), (113, 21836), (Start: 195 @21968 has 27 MA's), (Start: 200 @21974 has 2 MA's), (217, 22004), (224, 22019), (254, 22079), (266, 22100), (293, 22160), (309, 22199), (349, 22271), (380, 22334), (395, 22379), (399, 22397), (406, 22418), (409, 22427), (500, 22559), (506, 22568), (510, 22580),

Gene: Perkunas_31 Start: 19840, Stop: 20625, Start Num: 171

Candidate Starts for Perkunas_31:

(Start: 171 @19840 has 34 MA's), (Start: 179 @19855 has 5 MA's), (223, 19933), (242, 19981), (246, 19987), (309, 20125), (337, 20170), (408, 20359), (409, 20362), (440, 20437), (452, 20464),

Gene: Petito_27 Start: 20607, Stop: 21392, Start Num: 171

Candidate Starts for Petito_27:

(Start: 171 @20607 has 34 MA's), (197, 20652), (235, 20730), (242, 20748), (246, 20754), (249, 20757), (309, 20892), (330, 20925), (337, 20937), (408, 21126), (409, 21129), (440, 21204), (452, 21231), (506, 21351),

Gene: Petra_27 Start: 21152, Stop: 21940, Start Num: 155

Candidate Starts for Petra_27:

(63, 20948), (93, 21032), (102, 21053), (Start: 155 @21152 has 22 MA's), (Start: 167 @21164 has 3 MA's), (169, 21167), (Start: 184 @21194 has 1 MA's), (Start: 196 @21206 has 1 MA's), (207, 21221), (268, 21350), (277, 21362), (291, 21401), (310, 21449), (319, 21461), (337, 21491), (339, 21494), (340, 21497), (410, 21674), (423, 21695), (425, 21701), (427, 21710), (527, 21893), (536, 21917),

Gene: Phabuloso_27 Start: 21255, Stop: 21878, Start Num: 195

Candidate Starts for Phabuloso_27:

(42, 20880), (52, 20937), (62, 20982), (78, 21036), (80, 21039), (94, 21075), (Start: 112 @21120 has 1 MA's), (113, 21123), (Start: 195 @21255 has 27 MA's), (Start: 200 @21261 has 2 MA's), (217, 21291), (224, 21306), (254, 21366), (293, 21447), (309, 21486), (349, 21558), (380, 21621), (395, 21666), (399, 21684), (406, 21705), (409, 21714), (500, 21846), (506, 21855), (510, 21867),

Gene: Phauci_37 Start: 35913, Stop: 36635, Start Num: 157

Candidate Starts for Phauci_37:

(Start: 157 @35913 has 6 MA's), (169, 35928), (219, 36006), (225, 36018), (265, 36078), (325, 36201), (377, 36294), (382, 36300), (397, 36348), (410, 36387), (446, 36462), (501, 36561), (524, 36600), (533, 36621),

Gene: Phepper_30 Start: 22090, Stop: 22878, Start Num: 171

Candidate Starts for Phepper_30:

(Start: 171 @22090 has 34 MA's), (215, 22165), (220, 22177), (242, 22231), (246, 22237), (269, 22282), (283, 22312), (310, 22378), (322, 22396), (330, 22408), (333, 22414), (337, 22420), (408,

22609), (409, 22612), (440, 22687), (506, 22834),

Gene: Pherobrine_29 Start: 22125, Stop: 22910, Start Num: 171

Candidate Starts for Pherobrine_29:

(143, 22080), (Start: 171 @22125 has 34 MA's), (197, 22170), (242, 22266), (310, 22413), (322, 22431), (327, 22440), (337, 22455), (369, 22539), (392, 22587), (409, 22647), (440, 22722),

Gene: Phinally_44 Start: 39060, Stop: 39779, Start Num: 157

Candidate Starts for Phinally_44:

(Start: 157 @39060 has 6 MA's), (169, 39075), (Start: 196 @39114 has 1 MA's), (219, 39153), (225, 39165), (248, 39204), (265, 39225), (382, 39444), (388, 39453), (392, 39471), (397, 39492), (410, 39531), (446, 39606), (501, 39705), (524, 39744), (533, 39765),

Gene: Phishy_50 Start: 37259, Stop: 38065, Start Num: 152

Candidate Starts for Phishy_50:

(Start: 152 @37259 has 27 MA's), (Start: 196 @37322 has 1 MA's), (240, 37412), (297, 37544), (300, 37550), (301, 37553), (371, 37700), (399, 37781), (410, 37811), (413, 37817), (437, 37868), (506, 37994), (532, 38042),

Gene: Phistory_29 Start: 22289, Stop: 22912, Start Num: 195

Candidate Starts for Phistory_29:

(42, 21914), (52, 21971), (62, 22016), (78, 22070), (80, 22073), (94, 22109), (Start: 112 @22154 has 1 MA's), (113, 22157), (Start: 195 @22289 has 27 MA's), (Start: 200 @22295 has 2 MA's), (217, 22325), (224, 22340), (254, 22400), (293, 22481), (309, 22520), (349, 22592), (380, 22655), (395, 22700), (399, 22718), (406, 22739), (409, 22748), (500, 22880), (506, 22889), (510, 22901),

Gene: Phlop_43 Start: 36377, Stop: 37132, Start Num: 150

Candidate Starts for Phlop_43:

(140, 36362), (Start: 150 @36377 has 18 MA's), (206, 36449), (225, 36485), (266, 36557), (376, 36752), (382, 36758), (392, 36785), (405, 36833), (455, 36935), (505, 37019), (540, 37091),

Gene: Phomeo_18 Start: 9091, Stop: 9759, Start Num: 172

Candidate Starts for Phomeo_18:

(Start: 119 @9034 has 26 MA's), (143, 9058), (172, 9091), (210, 9094), (231, 9130), (235, 9145), (257, 9187), (278, 9226), (331, 9334), (405, 9526), (457, 9628), (475, 9658), (487, 9679), (493, 9694), (520, 9754),

Gene: PhorbesPhlower_24 Start: 19442, Stop: 20146, Start Num: 173

Candidate Starts for PhorbesPhlower_24:

(Start: 173 @19442 has 16 MA's), (231, 19538), (271, 19628), (282, 19649), (284, 19652), (292, 19676), (302, 19700), (303, 19703), (309, 19718), (339, 19754), (370, 19832), (390, 19859), (402, 19910), (409, 19931), (496, 20108), (510, 20138),

Gene: PhriskyACE_24 Start: 20739, Stop: 21473, Start Num: 196

Candidate Starts for PhriskyACE_24:

(76, 20526), (Start: 146 @20676 has 2 MA's), (Start: 152 @20685 has 27 MA's), (Start: 167 @20697 has 3 MA's), (169, 20700), (Start: 184 @20727 has 1 MA's), (Start: 196 @20739 has 1 MA's), (225, 20790), (268, 20883), (289, 20928), (290, 20931), (291, 20934), (292, 20937), (319, 20994), (330, 21012), (339, 21027), (340, 21030), (376, 21108), (385, 21120), (392, 21147), (410, 21207), (427, 21243), (497, 21375), (507, 21393), (527, 21429), (542, 21465),

Gene: PhrostedPhlake_27 Start: 21845, Stop: 22648, Start Num: 156

Candidate Starts for PhrostedPhlake_27:

(Start: 156 @21845 has 75 MA's), (Start: 184 @21893 has 1 MA's), (Start: 196 @21905 has 1 MA's), (207, 21920), (225, 21956), (268, 22049), (291, 22100), (315, 22157), (319, 22160), (330, 22178), (337, 22190), (339, 22193), (340, 22196), (410, 22373), (423, 22394), (425, 22400), (506, 22556), (527, 22592), (536, 22616), (547, 22637),

Gene: Pickett_23 Start: 18631, Stop: 19332, Start Num: 177

Candidate Starts for Pickett_23:

(164, 18616), (166, 18619), (Start: 177 @18631 has 45 MA's), (235, 18739), (253, 18775), (290, 18856), (305, 18895), (339, 18940), (355, 18979), (402, 19096), (409, 19117), (411, 19123), (439, 19180), (510, 19324),

Gene: PinkCoffee_46 Start: 36480, Stop: 37235, Start Num: 150

Candidate Starts for PinkCoffee_46:

(140, 36465), (Start: 150 @36480 has 18 MA's), (206, 36552), (225, 36588), (266, 36660), (376, 36855), (382, 36861), (392, 36888), (405, 36936), (455, 37038), (505, 37122), (540, 37194),

Gene: Pipp_25 Start: 21146, Stop: 21946, Start Num: 156

Candidate Starts for Pipp_25:

(Start: 156 @21146 has 75 MA's), (Start: 184 @21194 has 1 MA's), (Start: 196 @21206 has 1 MA's), (225, 21257), (268, 21350), (291, 21401), (315, 21458), (319, 21461), (330, 21479), (337, 21491), (339, 21494), (340, 21497), (401, 21650), (410, 21674), (423, 21695), (527, 21893), (536, 21917), (547, 21935),

Gene: Pleakley_25 Start: 9799, Stop: 10464, Start Num: 208

Candidate Starts for Pleakley_25:

(Start: 208 @9799 has 1 MA's), (210, 9802), (235, 9859), (257, 9901), (309, 10015), (320, 10030), (331, 10048), (350, 10084), (379, 10153), (385, 10159), (406, 10237), (409, 10246), (431, 10300), (475, 10360),

Gene: POCO6_034 Start: 30846, Stop: 31637, Start Num: 171

Candidate Starts for POCO6_034:

(Start: 171 @30846 has 34 MA's), (242, 30987), (269, 31038), (309, 31137), (339, 31185), (388, 31296), (409, 31374), (429, 31431), (453, 31479), (499, 31584),

Gene: Pollux_27 Start: 21910, Stop: 22626, Start Num: 173

Candidate Starts for Pollux_27:

(Start: 156 @21883 has 75 MA's), (Start: 158 @21886 has 1 MA's), (Start: 173 @21910 has 16 MA's), (185, 21928), (217, 21982), (258, 22066), (276, 22105), (291, 22141), (302, 22168), (339, 22222), (346, 22240), (388, 22333), (409, 22411), (411, 22417), (500, 22594), (509, 22612),

Gene: Polly_24 Start: 21758, Stop: 22366, Start Num: 200

Candidate Starts for Polly_24:

(121, 21650), (153, 21689), (Start: 174 @21722 has 6 MA's), (Start: 189 @21749 has 20 MA's), (Start: 200 @21758 has 2 MA's), (224, 21800), (231, 21812), (254, 21860), (266, 21881), (276, 21902), (290, 21935), (309, 21980), (334, 22019), (356, 22067), (380, 22115), (399, 22178), (437, 22259), (487, 22310), (500, 22337),

Gene: Polyuki_20 Start: 9999, Stop: 10895, Start Num: 131

Candidate Starts for Polyuki_20:

(46, 9762), (Start: 131 @9999 has 6 MA's), (178, 10077), (227, 10164), (244, 10212), (254, 10227), (295, 10305), (312, 10350), (385, 10482), (412, 10575), (420, 10590), (471, 10689), (503, 10770), (527, 10818), (545, 10863),

Gene: Portcullis_45 Start: 35691, Stop: 36446, Start Num: 151

Candidate Starts for Portcullis_45:

(100, 35595), (Start: 151 @35691 has 15 MA's), (206, 35763), (225, 35799), (266, 35871), (376, 36066), (382, 36072), (392, 36099), (455, 36249), (505, 36333), (540, 36405),

Gene: Posh_28 Start: 22753, Stop: 23376, Start Num: 189

Candidate Starts for Posh_28:

(Start: 189 @22753 has 20 MA's), (202, 22762), (224, 22804), (239, 22840), (266, 22885), (276, 22906), (290, 22939), (309, 22984), (349, 23056), (356, 23071), (380, 23119), (395, 23164), (399, 23182), (406, 23203), (409, 23212), (437, 23266), (487, 23317), (500, 23344), (506, 23353), (507, 23356),

Gene: PrincePatrick_25 Start: 21553, Stop: 22266, Start Num: 173

Candidate Starts for PrincePatrick_25:

(Start: 163 @21538 has 4 MA's), (Start: 173 @21553 has 16 MA's), (181, 21565), (183, 21568), (185, 21571), (241, 21679), (258, 21709), (271, 21739), (291, 21784), (309, 21829), (313, 21838), (339, 21871), (346, 21889), (388, 21976), (390, 21982), (402, 22033), (409, 22054), (411, 22060), (427, 22099), (431, 22111), (476, 22183), (506, 22246),

Gene: PullumCavea_43 Start: 36377, Stop: 37132, Start Num: 150

Candidate Starts for PullumCavea_43:

(140, 36362), (Start: 150 @36377 has 18 MA's), (206, 36449), (225, 36485), (266, 36557), (376, 36752), (382, 36758), (392, 36785), (405, 36833), (455, 36935), (505, 37019), (540, 37091),

Gene: Pytheas_28 Start: 22899, Stop: 23522, Start Num: 189

Candidate Starts for Pytheas_28:

(Start: 189 @22899 has 20 MA's), (202, 22908), (224, 22950), (239, 22986), (266, 23031), (276, 23052), (290, 23085), (309, 23130), (349, 23202), (356, 23217), (380, 23265), (395, 23310), (399, 23328), (406, 23349), (409, 23358), (437, 23412), (487, 23463), (500, 23490), (506, 23499), (507, 23502),

Gene: Rabbitrun_118 Start: 66939, Stop: 67664, Start Num: 159

Candidate Starts for Rabbitrun_118:

(Start: 159 @66939 has 16 MA's), (194, 66999), (221, 67047), (236, 67083), (272, 67137), (304, 67200), (335, 67242), (346, 67266), (348, 67272), (383, 67341), (385, 67344), (427, 67464), (460, 67524), (529, 67656),

Gene: Ranch_90 Start: 58464, Stop: 59315, Start Num: 152

Candidate Starts for Ranch_90:

(70, 58287), (83, 58314), (88, 58323), (91, 58338), (96, 58347), (139, 58440), (140, 58443), (Start: 152 @58464 has 27 MA's), (Start: 158 @58473 has 1 MA's), (Start: 171 @58494 has 34 MA's), (201, 58536), (205, 58542), (275, 58692), (280, 58701), (289, 58728), (293, 58740), (309, 58779), (328, 58809), (330, 58812), (337, 58824), (392, 58959), (416, 59034), (430, 59064), (446, 59094), (454, 59112), (456, 59115), (478, 59169), (496, 59214), (533, 59292),

Gene: RavenCo17_24 Start: 20690, Stop: 21409, Start Num: 177

Candidate Starts for RavenCo17_24:

(14, 19883), (17, 20024), (40, 20324), (101, 20546), (Start: 177 @20690 has 45 MA's), (217, 20756), (231, 20783), (235, 20798), (258, 20843), (282, 20894), (290, 20915), (302, 20945), (339, 20999), (342, 21008), (346, 21017), (409, 21185), (411, 21191), (463, 21293), (491, 21356),

Gene: RayTheFireFly_27 Start: 22566, Stop: 23267, Start Num: 174

Candidate Starts for RayTheFireFly_27:

(Start: 174 @22566 has 6 MA's), (187, 22584), (231, 22659), (235, 22674), (282, 22770), (285, 22776), (302, 22821), (339, 22875), (342, 22884), (346, 22893), (386, 22968), (388, 22974), (409, 23052), (411, 23058), (476, 23181), (506, 23244),

Gene: Reyja_51 Start: 33537, Stop: 34391, Start Num: 128

Candidate Starts for Reyja_51:

(Start: 128 @33537 has 5 MA's), (233, 33720), (332, 33918), (347, 33951), (388, 34044), (409, 34122), (458, 34233), (460, 34236), (462, 34242), (476, 34278), (489, 34305), (519, 34380),

Gene: Reynauld_61 Start: 54042, Stop: 53173, Start Num: 148

Candidate Starts for Reynauld_61:

(Start: 148 @54042 has 1 MA's), (Start: 163 @54015 has 4 MA's), (192, 53964), (197, 53958), (269, 53832), (317, 53715), (329, 53682), (344, 53643), (385, 53553), (409, 53466), (448, 53388), (464, 53355), (491, 53295), (500, 53274), (518, 53235), (525, 53226), (544, 53178),

Gene: Ribeye_46 Start: 40481, Stop: 41224, Start Num: 156

Candidate Starts for Ribeye_46:

(Start: 156 @40481 has 75 MA's), (Start: 167 @40499 has 3 MA's), (197, 40544), (225, 40589), (265, 40664), (274, 40682), (302, 40751), (360, 40844), (363, 40856), (427, 41012), (431, 41024), (446, 41051), (467, 41084), (479, 41111), (501, 41150), (517, 41177),

Gene: Rickmore_29 Start: 20743, Stop: 21531, Start Num: 171

Candidate Starts for Rickmore_29:

(Start: 171 @20743 has 34 MA's), (236, 20869), (242, 20884), (310, 21031), (337, 21073), (390, 21193), (409, 21265), (506, 21487),

Gene: RiverRaider_47 Start: 38597, Stop: 39352, Start Num: 156

Candidate Starts for RiverRaider_47:

(Start: 156 @38597 has 75 MA's), (Start: 167 @38615 has 3 MA's), (Start: 184 @38645 has 1 MA's), (225, 38702), (251, 38747), (265, 38777), (276, 38798), (291, 38837), (325, 38903), (360, 38957), (410, 39086), (431, 39140), (446, 39167), (517, 39293), (530, 39314),

Gene: RobinSparkles_42 Start: 41471, Stop: 42193, Start Num: 179

Candidate Starts for RobinSparkles_42:

(Start: 179 @41471 has 5 MA's), (182, 41477), (205, 41513), (212, 41525), (256, 41618), (309, 41744), (330, 41762), (333, 41768), (352, 41810), (373, 41864), (381, 41876), (410, 41972), (450, 42032), (498, 42146),

Gene: Rofo_46 Start: 40199, Stop: 40933, Start Num: 156

Candidate Starts for Rofo_46:

(82, 40052), (Start: 120 @40142 has 3 MA's), (Start: 156 @40199 has 75 MA's), (Start: 167 @40217 has 3 MA's), (225, 40304), (237, 40331), (265, 40379), (274, 40397), (291, 40439), (335, 40517), (360, 40559), (375, 40592), (427, 40727), (446, 40766), (501, 40865), (517, 40892), (534, 40925),

Gene: RogerDodger_47 Start: 36520, Stop: 37275, Start Num: 151

Candidate Starts for RogerDodger_47:

(108, 36442), (Start: 151 @36520 has 15 MA's), (206, 36592), (225, 36628), (266, 36700), (376, 36895), (382, 36901), (392, 36928), (405, 36976), (455, 37078), (505, 37162), (540, 37234),

Gene: Roney_27 Start: 19428, Stop: 20213, Start Num: 171

Candidate Starts for Roney_27:

(Start: 171 @19428 has 34 MA's), (Start: 179 @19443 has 5 MA's), (Start: 208 @19491 has 1 MA's), (225, 19524), (242, 19569), (246, 19575), (309, 19713), (330, 19746), (337, 19758), (408, 19947),

(409, 19950), (440, 20025), (452, 20052), (506, 20172),

Gene: Rumi_85 Start: 56474, Stop: 57325, Start Num: 152

Candidate Starts for Rumi_85:

(83, 56324), (88, 56333), (91, 56348), (96, 56357), (139, 56450), (140, 56453), (Start: 152 @56474 has 27 MA's), (Start: 158 @56483 has 1 MA's), (Start: 165 @56495 has 1 MA's), (Start: 171 @56504 has 34 MA's), (201, 56546), (205, 56552), (228, 56597), (273, 56699), (275, 56702), (289, 56738), (293, 56750), (309, 56789), (328, 56819), (330, 56822), (337, 56834), (339, 56837), (392, 56969), (412, 57035), (416, 57044), (430, 57074), (444, 57101), (454, 57122), (478, 57179), (496, 57224), (533, 57302),

Gene: Runhaar_30 Start: 22093, Stop: 22881, Start Num: 171

Candidate Starts for Runhaar_30:

(Start: 171 @22093 has 34 MA's), (215, 22168), (220, 22180), (242, 22234), (246, 22240), (269, 22285), (283, 22315), (310, 22381), (322, 22399), (330, 22411), (333, 22417), (337, 22423), (408, 22612), (409, 22615), (414, 22630), (440, 22690), (506, 22837),

Gene: Ruthy_29 Start: 24516, Stop: 25301, Start Num: 167

Candidate Starts for Ruthy_29:

(Start: 154 @24495 has 1 MA's), (Start: 159 @24504 has 16 MA's), (Start: 167 @24516 has 3 MA's), (169, 24519), (Start: 184 @24546 has 1 MA's), (Start: 196 @24558 has 1 MA's), (225, 24609), (291, 24753), (310, 24801), (319, 24813), (330, 24831), (337, 24843), (339, 24846), (340, 24849), (410, 25026), (423, 25047), (441, 25089), (497, 25194), (527, 25248), (536, 25272),

Gene: Sadboi_86 Start: 58752, Stop: 59600, Start Num: 152

Candidate Starts for Sadboi_86:

(139, 58728), (140, 58731), (Start: 147 @58740 has 1 MA's), (Start: 152 @58752 has 27 MA's), (Start: 158 @58761 has 1 MA's), (Start: 165 @58773 has 1 MA's), (Start: 171 @58782 has 34 MA's), (Start: 184 @58806 has 1 MA's), (201, 58824), (205, 58830), (232, 58881), (275, 58977), (280, 58986), (289, 59013), (293, 59025), (328, 59094), (330, 59097), (337, 59109), (392, 59244), (416, 59319), (430, 59349), (454, 59397), (456, 59400), (478, 59454), (496, 59499), (502, 59511), (533, 59577),

Gene: Sahara_23 Start: 19470, Stop: 20177, Start Num: 177

Candidate Starts for Sahara_23:

(98, 19326), (Start: 177 @19470 has 45 MA's), (211, 19527), (231, 19566), (258, 19626), (266, 19644), (267, 19647), (276, 19665), (291, 19701), (305, 19737), (313, 19755), (340, 19785), (370, 19860), (409, 19959), (411, 19965), (510, 20169),

Gene: Salvador_43 Start: 36189, Stop: 36944, Start Num: 151

Candidate Starts for Salvador_43:

(100, 36093), (Start: 151 @36189 has 15 MA's), (206, 36261), (225, 36297), (266, 36369), (275, 36384), (376, 36564), (382, 36570), (392, 36597), (405, 36645), (455, 36747), (505, 36831), (540, 36903),

Gene: Samba_25 Start: 21230, Stop: 22033, Start Num: 156

Candidate Starts for Samba_25:

(Start: 156 @21230 has 75 MA's), (Start: 184 @21278 has 1 MA's), (Start: 196 @21290 has 1 MA's), (207, 21305), (268, 21434), (277, 21446), (291, 21485), (310, 21533), (319, 21545), (330, 21563), (337, 21575), (339, 21578), (340, 21581), (410, 21758), (423, 21779), (425, 21785), (506, 21941), (527, 21977), (536, 22001), (547, 22022),

Gene: Samman98_25 Start: 21237, Stop: 22025, Start Num: 155

Candidate Starts for Samman98_25:

(Start: 146 @21225 has 2 MA's), (Start: 155 @21237 has 22 MA's), (Start: 167 @21249 has 3 MA's), (169, 21252), (Start: 184 @21279 has 1 MA's), (Start: 196 @21291 has 1 MA's), (225, 21342), (268, 21435), (289, 21480), (290, 21483), (291, 21486), (292, 21489), (319, 21546), (330, 21564), (337, 21576), (339, 21579), (340, 21582), (385, 21672), (410, 21759), (427, 21795), (497, 21927), (507, 21945), (527, 21981), (542, 22017),

Gene: Sampson_46 Start: 40628, Stop: 41350, Start Num: 159

Candidate Starts for Sampson_46:

(61, 40412), (99, 40517), (Start: 159 @40628 has 16 MA's), (225, 40733), (231, 40742), (265, 40793), (274, 40811), (291, 40853), (330, 40919), (333, 40925), (337, 40931), (370, 40997), (410, 41096), (501, 41270), (514, 41291), (521, 41306),

Gene: Sampudon_88 Start: 59669, Stop: 60520, Start Num: 152

Candidate Starts for Sampudon_88:

(139, 59645), (140, 59648), (Start: 152 @59669 has 27 MA's), (Start: 158 @59678 has 1 MA's), (Start: 171 @59699 has 34 MA's), (201, 59741), (205, 59747), (228, 59792), (275, 59897), (280, 59906), (289, 59933), (293, 59945), (309, 59984), (392, 60164), (412, 60230), (416, 60239), (430, 60269), (444, 60296), (456, 60320), (478, 60374), (496, 60419), (502, 60431), (533, 60497),

Gene: Sanjuju_44 Start: 40813, Stop: 41547, Start Num: 156

Candidate Starts for Sanjuju_44:

(82, 40666), (Start: 120 @40756 has 3 MA's), (Start: 156 @40813 has 75 MA's), (Start: 167 @40831 has 3 MA's), (225, 40918), (237, 40945), (265, 40993), (274, 41011), (291, 41053), (335, 41131), (360, 41173), (375, 41206), (427, 41341), (446, 41380), (501, 41479), (517, 41506), (534, 41539),

Gene: Santhid_48 Start: 31055, Stop: 31930, Start Num: 128

Candidate Starts for Santhid_48:

(50, 30830), (75, 30929), (79, 30938), (90, 30968), (111, 31019), (114, 31025), (Start: 128 @31055 has 5 MA's), (233, 31238), (331, 31457), (332, 31460), (347, 31493), (381, 31568), (385, 31574), (388, 31583), (409, 31661), (458, 31772), (460, 31775), (462, 31781), (476, 31817), (489, 31844), (519, 31919),

Gene: Sapo_40 Start: 36566, Stop: 37357, Start Num: 159

Candidate Starts for Sapo_40:

(133, 36521), (135, 36524), (Start: 159 @36566 has 16 MA's), (Start: 171 @36584 has 34 MA's), (205, 36641), (210, 36650), (277, 36785), (299, 36845), (322, 36893), (324, 36896), (369, 36989), (393, 37046), (412, 37109), (535, 37331),

Gene: Saronaya_45 Start: 39323, Stop: 40066, Start Num: 156

Candidate Starts for Saronaya_45:

(Start: 156 @39323 has 75 MA's), (Start: 167 @39341 has 3 MA's), (197, 39386), (225, 39431), (260, 39494), (265, 39506), (274, 39524), (291, 39566), (302, 39593), (360, 39686), (363, 39698), (412, 39818), (427, 39854), (431, 39866), (446, 39893), (467, 39926), (483, 39959), (501, 39992), (517, 40019),

Gene: Savage_24 Start: 19798, Stop: 20505, Start Num: 177

Candidate Starts for Savage_24:

(98, 19654), (Start: 177 @19798 has 45 MA's), (211, 19855), (231, 19894), (253, 19945), (258, 19954), (266, 19972), (267, 19975), (291, 20029), (292, 20032), (305, 20065), (313, 20083), (339, 20110), (370, 20188), (399, 20257), (401, 20263), (409, 20287), (411, 20293), (510, 20497),

Gene: Savbucketdawg_44 Start: 35970, Stop: 36725, Start Num: 151

Candidate Starts for Savbucketdawg_44:

(100, 35874), (Start: 151 @35970 has 15 MA's), (206, 36042), (266, 36150), (288, 36195), (376, 36345), (382, 36351), (392, 36378), (405, 36426), (455, 36528), (505, 36612), (540, 36684),

Gene: ScarletRaider_30 Start: 24488, Stop: 25168, Start Num: 119

Candidate Starts for ScarletRaider_30:

(Start: 119 @24488 has 26 MA's), (Start: 208 @24545 has 1 MA's), (276, 24662), (290, 24695), (303, 24725), (304, 24728), (313, 24749), (320, 24755), (331, 24773), (341, 24794), (370, 24863), (385, 24887), (391, 24905), (395, 24926), (431, 25019), (437, 25028), (487, 25079), (516, 25148), (526, 25163),

Gene: Schnabeltier_26 Start: 21755, Stop: 22468, Start Num: 177

Candidate Starts for Schnabeltier_26:

(Start: 142 @21698 has 1 MA's), (Start: 177 @21755 has 45 MA's), (231, 21848), (235, 21863), (258, 21908), (292, 21986), (302, 22010), (342, 22073), (346, 22082), (385, 22157), (405, 22232), (409, 22244), (411, 22250), (476, 22385),

Gene: Schomber_30 Start: 21318, Stop: 22016, Start Num: 119

Candidate Starts for Schomber_30:

(Start: 112 @21300 has 1 MA's), (Start: 119 @21318 has 26 MA's), (Start: 208 @21381 has 1 MA's), (227, 21417), (259, 21477), (266, 21489), (276, 21510), (290, 21543), (303, 21573), (304, 21576), (313, 21597), (320, 21603), (323, 21609), (336, 21630), (385, 21735), (388, 21744), (406, 21813), (408, 21819), (427, 21855), (431, 21867), (475, 21906), (487, 21927), (516, 21996), (525, 22008), (526, 22011),

Gene: SchottB_44 Start: 40323, Stop: 41066, Start Num: 156

Candidate Starts for SchottB_44:

(Start: 156 @40323 has 75 MA's), (Start: 167 @40341 has 3 MA's), (197, 40386), (225, 40431), (265, 40506), (274, 40524), (291, 40566), (360, 40686), (363, 40698), (412, 40818), (427, 40854), (431, 40866), (446, 40893), (467, 40926), (483, 40959), (501, 40992), (517, 41019),

Gene: Schwartz33_31 Start: 22450, Stop: 23235, Start Num: 171

Candidate Starts for Schwartz33_31:

(122, 22369), (Start: 171 @22450 has 34 MA's), (220, 22537), (242, 22591), (303, 22720), (322, 22756), (327, 22765), (330, 22768), (337, 22780), (392, 22912), (408, 22969), (409, 22972), (480, 23137),

Gene: Scioto_47 Start: 40684, Stop: 41406, Start Num: 159

Candidate Starts for Scioto_47:

(61, 40468), (99, 40573), (Start: 159 @40684 has 16 MA's), (225, 40789), (231, 40798), (265, 40849), (274, 40867), (291, 40909), (330, 40975), (333, 40981), (337, 40987), (370, 41053), (410, 41152), (501, 41326), (514, 41347), (521, 41362),

Gene: Secretariat_28 Start: 21176, Stop: 21964, Start Num: 171

Candidate Starts for Secretariat_28:

(Start: 171 @21176 has 34 MA's), (220, 21263), (242, 21317), (292, 21419), (293, 21422), (309, 21461), (322, 21482), (327, 21491), (337, 21506), (392, 21638), (408, 21695), (409, 21698), (452, 21800), (480, 21863),

Gene: Sedona_45 Start: 40410, Stop: 41144, Start Num: 156

Candidate Starts for Sedona_45:

(149, 40404), (Start: 156 @40410 has 75 MA's), (Start: 167 @40428 has 3 MA's), (225, 40515), (237, 40542), (265, 40590), (274, 40608), (291, 40650), (335, 40728), (360, 40770), (427, 40938), (446, 40977), (501, 41076), (517, 41103), (534, 41136),

Gene: Sekhmet_25 Start: 21597, Stop: 22385, Start Num: 155

Candidate Starts for Sekhmet_25:

(Start: 146 @21585 has 2 MA's), (Start: 155 @21597 has 22 MA's), (Start: 167 @21609 has 3 MA's), (169, 21612), (Start: 196 @21651 has 1 MA's), (199, 21654), (225, 21702), (268, 21795), (289, 21840), (290, 21843), (291, 21846), (292, 21849), (319, 21906), (330, 21924), (339, 21939), (340, 21942), (376, 22020), (385, 22032), (392, 22059), (410, 22119), (427, 22155), (497, 22287), (507, 22305), (527, 22341), (542, 22377),

Gene: Sephiroth_116 Start: 65083, Stop: 65805, Start Num: 163

Candidate Starts for Sephiroth_116:

(Start: 163 @65083 has 4 MA's), (191, 65131), (Start: 208 @65158 has 1 MA's), (218, 65173), (291, 65305), (394, 65515), (434, 65617), (475, 65689), (522, 65788), (525, 65791),

Gene: Shatter_42 Start: 35273, Stop: 35995, Start Num: 177

Candidate Starts for Shatter_42:

(29, 34883), (64, 35060), (104, 35168), (Start: 177 @35273 has 45 MA's), (262, 35435), (282, 35480), (305, 35543), (313, 35561), (339, 35588), (370, 35666), (372, 35669), (399, 35738), (409, 35768), (411, 35774), (502, 35963),

Gene: Shinji_44 Start: 35841, Stop: 36488, Start Num: 225

Candidate Starts for Shinji_44:

(140, 35718), (Start: 150 @35733 has 18 MA's), (182, 35778), (206, 35805), (225, 35841), (266, 35913), (303, 35994), (376, 36108), (382, 36114), (392, 36141), (405, 36189), (455, 36291), (505, 36375), (540, 36447),

Gene: Shivanishola_45 Start: 39080, Stop: 39814, Start Num: 156

Candidate Starts for Shivanishola_45:

(82, 38933), (Start: 120 @39023 has 3 MA's), (Start: 156 @39080 has 75 MA's), (Start: 167 @39098 has 3 MA's), (225, 39185), (237, 39212), (265, 39260), (274, 39278), (291, 39320), (335, 39398), (360, 39440), (375, 39473), (427, 39608), (446, 39647), (501, 39746), (517, 39773), (534, 39806),

Gene: Shlim410_25 Start: 21831, Stop: 22619, Start Num: 155

Candidate Starts for Shlim410_25:

(Start: 146 @21819 has 2 MA's), (Start: 155 @21831 has 22 MA's), (Start: 167 @21843 has 3 MA's), (169, 21846), (Start: 184 @21873 has 1 MA's), (Start: 196 @21885 has 1 MA's), (225, 21936), (268, 22029), (289, 22074), (290, 22077), (291, 22080), (319, 22140), (330, 22158), (337, 22170), (339, 22173), (340, 22176), (385, 22266), (410, 22353), (497, 22521), (507, 22539), (527, 22575), (536, 22599),

Gene: Sidious_26 Start: 22171, Stop: 22956, Start Num: 155

Candidate Starts for Sidious_26:

(Start: 155 @22171 has 22 MA's), (Start: 184 @22213 has 1 MA's), (Start: 196 @22225 has 1 MA's), (216, 22258), (225, 22276), (268, 22369), (291, 22420), (315, 22477), (319, 22480), (330, 22498), (337, 22510), (339, 22513), (340, 22516), (399, 22663), (410, 22693), (425, 22720), (441, 22756), (497, 22861), (506, 22876), (507, 22879), (527, 22912),

Gene: Sisko_42 Start: 36073, Stop: 36798, Start Num: 175

Candidate Starts for Sisko_42:

(74, 35875), (104, 35947), (Start: 175 @36073 has 6 MA's), (180, 36082), (258, 36232), (262, 36238), (271, 36262), (276, 36271), (282, 36283), (287, 36298), (303, 36340), (313, 36364), (340, 36394), (381, 36478), (399, 36541), (407, 36565), (409, 36571), (496, 36754), (500, 36763),

Gene: Sitar_45 Start: 40763, Stop: 41497, Start Num: 156

Candidate Starts for Sitar_45:

(Start: 120 @40706 has 3 MA's), (Start: 156 @40763 has 75 MA's), (Start: 167 @40781 has 3 MA's), (225, 40868), (237, 40895), (265, 40943), (274, 40961), (291, 41003), (335, 41081), (360, 41123), (375, 41156), (427, 41291), (446, 41330), (501, 41429), (517, 41456), (534, 41489),

Gene: Skysand_20 Start: 9079, Stop: 9852, Start Num: 119

Candidate Starts for Skysand_20:

(Start: 119 @9079 has 26 MA's), (Start: 208 @9187 has 1 MA's), (210, 9190), (235, 9241), (257, 9283), (309, 9397), (341, 9451), (395, 9583), (487, 9772), (511, 9826),

Gene: SmokingBunny_44 Start: 36282, Stop: 37037, Start Num: 150

Candidate Starts for SmokingBunny_44:

(127, 36246), (140, 36267), (Start: 150 @36282 has 18 MA's), (206, 36354), (225, 36390), (266, 36462), (303, 36543), (376, 36657), (382, 36663), (392, 36690), (405, 36738), (455, 36840), (505, 36924), (540, 36996),

Gene: SoilAssassin_24 Start: 19791, Stop: 20498, Start Num: 177

Candidate Starts for SoilAssassin_24:

(98, 19647), (Start: 177 @19791 has 45 MA's), (211, 19848), (231, 19887), (258, 19947), (266, 19965), (267, 19968), (276, 19986), (291, 20022), (292, 20025), (305, 20058), (313, 20076), (339, 20103), (370, 20181), (399, 20250), (409, 20280), (411, 20286), (510, 20490),

Gene: Sour_47 Start: 39940, Stop: 40659, Start Num: 175

Candidate Starts for Sour_47:

(104, 39817), (Start: 175 @39940 has 6 MA's), (181, 39949), (217, 40009), (258, 40096), (262, 40102), (271, 40126), (282, 40147), (290, 40171), (292, 40177), (303, 40204), (305, 40210), (313, 40228), (339, 40255), (340, 40258), (399, 40402), (409, 40432), (491, 40600), (508, 40639),

Gene: SpeedDemon_1340 Start: 81228, Stop: 81950, Start Num: 159

Candidate Starts for SpeedDemon_1340:

(76, 81057), (126, 81177), (Start: 142 @81201 has 1 MA's), (Start: 159 @81228 has 16 MA's), (192, 81285), (243, 81381),

Gene: Spooky_28 Start: 21590, Stop: 22213, Start Num: 195

Candidate Starts for Spooky_28:

(42, 21218), (52, 21275), (62, 21320), (78, 21374), (80, 21377), (94, 21413), (Start: 112 @21458 has 1 MA's), (113, 21461), (Start: 195 @21590 has 27 MA's), (202, 21599), (217, 21626), (224, 21641), (254, 21701), (298, 21794), (309, 21821), (349, 21893), (380, 21956), (395, 22001), (399, 22019), (406, 22040), (409, 22049), (500, 22181), (506, 22190),

Gene: Sproutie_24 Start: 19798, Stop: 20505, Start Num: 177

Candidate Starts for Sproutie_24:

(98, 19654), (Start: 177 @19798 has 45 MA's), (211, 19855), (231, 19894), (253, 19945), (258, 19954), (266, 19972), (267, 19975), (291, 20029), (292, 20032), (305, 20065), (313, 20083), (339, 20110), (370, 20188), (399, 20257), (401, 20263), (409, 20287), (411, 20293), (510, 20497),

Gene: Squiddly_30 Start: 23002, Stop: 23625, Start Num: 195

Candidate Starts for Squiddly_30:

(42, 22630), (52, 22687), (62, 22732), (78, 22786), (80, 22789), (94, 22825), (Start: 112 @22870 has 1 MA's), (113, 22873), (Start: 195 @23002 has 27 MA's), (202, 23011), (217, 23038), (224, 23053), (254, 23113), (298, 23206), (309, 23233), (349, 23305), (380, 23368), (395, 23413), (399, 23431), (406, 23452), (409, 23461), (500, 23593), (506, 23602),

Gene: StarStruck_19 Start: 8535, Stop: 9323, Start Num: 124

Candidate Starts for StarStruck_19:

(Start: 124 @8535 has 8 MA's), (127, 8544), (192, 8634), (Start: 208 @8658 has 1 MA's), (216, 8673), (234, 8706), (257, 8754), (341, 8922), (351, 8943), (487, 9249), (489, 9258), (493, 9264), (496, 9273), (508, 9297),

Gene: StorminNorm_45 Start: 39414, Stop: 40157, Start Num: 156

Candidate Starts for StorminNorm_45:

(Start: 156 @39414 has 75 MA's), (Start: 167 @39432 has 3 MA's), (197, 39477), (225, 39522), (265, 39597), (274, 39615), (281, 39627), (291, 39657), (302, 39684), (360, 39777), (363, 39789), (427, 39945), (431, 39957), (446, 39984), (467, 40017), (501, 40083), (517, 40110),

Gene: Stultus_44 Start: 39716, Stop: 40450, Start Num: 156

Candidate Starts for Stultus_44:

(Start: 120 @39659 has 3 MA's), (Start: 156 @39716 has 75 MA's), (Start: 167 @39734 has 3 MA's), (225, 39821), (237, 39848), (265, 39896), (274, 39914), (291, 39956), (335, 40034), (360, 40076), (375, 40109), (427, 40244), (446, 40283), (501, 40382), (517, 40409), (534, 40442),

Gene: Suerte_23 Start: 20721, Stop: 21509, Start Num: 155

Candidate Starts for Suerte_23:

(Start: 146 @20709 has 2 MA's), (Start: 155 @20721 has 22 MA's), (Start: 167 @20733 has 3 MA's), (169, 20736), (Start: 184 @20763 has 1 MA's), (Start: 196 @20775 has 1 MA's), (225, 20826), (268, 20919), (289, 20964), (291, 20970), (319, 21030), (330, 21048), (337, 21060), (339, 21063), (340, 21066), (385, 21156), (392, 21183), (410, 21243), (427, 21279), (497, 21411), (507, 21429), (527, 21465),

Gene: Sukkupi_19 Start: 7686, Stop: 8480, Start Num: 120

Candidate Starts for Sukkupi_19:

(Start: 120 @7686 has 3 MA's), (Start: 208 @7800 has 1 MA's), (210, 7803), (216, 7815), (257, 7896), (331, 8046), (343, 8070), (357, 8103), (405, 8235), (469, 8361), (487, 8397), (511, 8451),

Gene: SuperSulley_20 Start: 8964, Stop: 9755, Start Num: 124

Candidate Starts for SuperSulley_20:

(Start: 124 @8964 has 8 MA's), (127, 8973), (Start: 156 @9009 has 75 MA's), (Start: 196 @9072 has 1 MA's), (Start: 208 @9090 has 1 MA's), (216, 9105), (231, 9129), (234, 9138), (257, 9186), (276, 9222), (331, 9333), (351, 9375), (475, 9660), (487, 9681), (489, 9690), (493, 9696), (508, 9729),

Gene: Suscepit_27 Start: 22303, Stop: 22923, Start Num: 190

Candidate Starts for Suscepit_27:

(39, 21928), (78, 22099), (80, 22102), (Start: 112 @22183 has 1 MA's), (121, 22204), (Start: 190 @22303 has 15 MA's), (Start: 200 @22312 has 2 MA's), (224, 22357), (266, 22438), (309, 22537), (332, 22573), (356, 22624), (380, 22672), (399, 22735), (409, 22765), (437, 22816), (487, 22867), (500, 22894),

Gene: Syleon_121 Start: 65865, Stop: 66587, Start Num: 163

Candidate Starts for Syleon_121:

(Start: 163 @65865 has 4 MA's), (191, 65913), (Start: 208 @65940 has 1 MA's), (218, 65955), (291, 66087), (394, 66297), (427, 66384), (434, 66399), (475, 66471), (482, 66486), (522, 66570), (525, 66573),

Gene: TPA4_30 Start: 27688, Stop: 28482, Start Num: 156

Candidate Starts for TPA4_30:

(69, 27505), (Start: 156 @27688 has 75 MA's), (Start: 204 @27760 has 3 MA's), (234, 27820), (251, 27856), (263, 27880), (395, 28165), (410, 28213), (460, 28309), (485, 28354),

Gene: Tangent_46 Start: 39790, Stop: 40524, Start Num: 156

Candidate Starts for Tangent_46:

(82, 39643), (Start: 120 @39733 has 3 MA's), (Start: 156 @39790 has 75 MA's), (Start: 167 @39808 has 3 MA's), (225, 39895), (237, 39922), (265, 39970), (274, 39988), (291, 40030), (335, 40108), (360, 40150), (375, 40183), (427, 40318), (446, 40357), (501, 40456), (517, 40483), (534, 40516),

Gene: Tangerine_45 Start: 39195, Stop: 39938, Start Num: 156

Candidate Starts for Tangerine_45:

(Start: 156 @39195 has 75 MA's), (Start: 167 @39213 has 3 MA's), (197, 39258), (225, 39303), (265, 39378), (274, 39396), (291, 39438), (302, 39465), (360, 39558), (363, 39570), (427, 39726), (431, 39738), (446, 39765), (467, 39798), (483, 39831), (501, 39864), (517, 39891),

Gene: Tanis_27 Start: 19278, Stop: 20063, Start Num: 171

Candidate Starts for Tanis_27:

(Start: 171 @19278 has 34 MA's), (Start: 179 @19293 has 5 MA's), (Start: 208 @19341 has 1 MA's), (225, 19374), (242, 19419), (246, 19425), (309, 19563), (330, 19596), (337, 19608), (408, 19797), (409, 19800), (440, 19875), (452, 19902), (506, 20022),

Gene: Tardus_47 Start: 40038, Stop: 40760, Start Num: 159

Candidate Starts for Tardus_47:

(61, 39822), (86, 39891), (99, 39927), (Start: 159 @40038 has 16 MA's), (225, 40143), (231, 40152), (265, 40203), (274, 40221), (291, 40263), (337, 40341), (410, 40506), (427, 40542), (441, 40569), (501, 40680), (521, 40716),

Gene: TaronosaurusRx_26 Start: 21786, Stop: 22499, Start Num: 177

Candidate Starts for TaronosaurusRx_26:

(Start: 142 @21729 has 1 MA's), (Start: 148 @21738 has 1 MA's), (Start: 177 @21786 has 45 MA's), (217, 21852), (231, 21879), (235, 21894), (258, 21939), (282, 21990), (292, 22017), (302, 22041), (342, 22104), (346, 22113), (385, 22188), (405, 22263), (409, 22275), (411, 22281), (463, 22383),

Gene: Tarzan_50 Start: 32536, Stop: 33387, Start Num: 128

Candidate Starts for Tarzan_50:

(111, 32500), (114, 32506), (Start: 128 @32536 has 5 MA's), (233, 32719), (332, 32917), (347, 32950), (381, 33025), (388, 33040), (409, 33118), (458, 33229), (460, 33232), (462, 33238), (476, 33274), (489, 33301), (519, 33376),

Gene: Tayonia_27 Start: 22303, Stop: 22923, Start Num: 190

Candidate Starts for Tayonia_27:

(39, 21928), (78, 22099), (80, 22102), (Start: 112 @22183 has 1 MA's), (121, 22204), (Start: 190 @22303 has 15 MA's), (Start: 200 @22312 has 2 MA's), (224, 22357), (266, 22438), (309, 22537), (332, 22573), (356, 22624), (380, 22672), (399, 22735), (409, 22765), (437, 22816), (487, 22867), (500, 22894),

Gene: TenaciousP_34 Start: 23744, Stop: 24532, Start Num: 171

Candidate Starts for TenaciousP_34:

(Start: 171 @23744 has 34 MA's), (197, 23789), (215, 23819), (220, 23831), (242, 23885), (310, 24032), (337, 24074), (369, 24158), (408, 24263), (409, 24266), (440, 24341), (506, 24488),

Gene: ThankyouJordi_24 Start: 22284, Stop: 22901, Start Num: 189

Candidate Starts for ThankyouJordi_24:

(121, 22185), (153, 22224), (Start: 174 @22257 has 6 MA's), (Start: 189 @22284 has 20 MA's), (198, 22290), (Start: 200 @22293 has 2 MA's), (224, 22335), (254, 22395), (290, 22470), (298, 22488), (309, 22515), (332, 22551), (356, 22602), (364, 22623), (399, 22713), (437, 22794), (500, 22872),

Gene: Thimann_25 Start: 21189, Stop: 21977, Start Num: 155

Candidate Starts for Thimann_25:

(Start: 146 @21177 has 2 MA's), (Start: 155 @21189 has 22 MA's), (Start: 167 @21201 has 3 MA's), (169, 21204), (Start: 184 @21231 has 1 MA's), (Start: 196 @21243 has 1 MA's), (225, 21294), (268, 21387), (289, 21432), (291, 21438), (319, 21498), (330, 21516), (337, 21528), (339, 21531), (340, 21534), (385, 21624), (392, 21651), (410, 21711), (427, 21747), (497, 21879), (507, 21897), (527, 21933),

Gene: Thing3_43 Start: 39019, Stop: 39753, Start Num: 156

Candidate Starts for Thing3_43:

(Start: 120 @38962 has 3 MA's), (Start: 156 @39019 has 75 MA's), (Start: 167 @39037 has 3 MA's), (225, 39124), (237, 39151), (265, 39199), (274, 39217), (291, 39259), (335, 39337), (360, 39379), (375, 39412), (427, 39547), (446, 39586), (501, 39685), (517, 39712), (534, 39745),

Gene: Tillicus_82 Start: 58169, Stop: 59020, Start Num: 152

Candidate Starts for Tillicus_82:

(140, 58148), (Start: 152 @58169 has 27 MA's), (Start: 158 @58178 has 1 MA's), (Start: 165 @58190 has 1 MA's), (Start: 171 @58199 has 34 MA's), (Start: 184 @58223 has 1 MA's), (201, 58241), (231, 58298), (289, 58433), (304, 58472), (309, 58484), (330, 58517), (337, 58529), (346, 58550), (385, 58637), (392, 58664), (401, 58700), (412, 58730), (418, 58742), (430, 58769), (454, 58817), (456, 58820), (478, 58874), (534, 59000),

Gene: TillyBobJoe_44 Start: 36086, Stop: 36841, Start Num: 150

Candidate Starts for TillyBobJoe_44:

(127, 36050), (140, 36071), (Start: 150 @36086 has 18 MA's), (206, 36158), (225, 36194), (266, 36266), (303, 36347), (376, 36461), (382, 36467), (392, 36494), (405, 36542), (455, 36644), (505, 36728), (540, 36800), (543, 36806),

Gene: TimTam_25 Start: 22309, Stop: 22926, Start Num: 189

Candidate Starts for TimTam_25:

(121, 22210), (153, 22249), (Start: 174 @22282 has 6 MA's), (Start: 189 @22309 has 20 MA's), (Start: 200 @22318 has 2 MA's), (224, 22360), (231, 22372), (254, 22420), (266, 22441), (276, 22462), (290, 22495), (292, 22498), (309, 22540), (332, 22576), (356, 22627), (380, 22675), (399, 22738), (409, 22768), (437, 22819), (500, 22897),

Gene: TinyDot_26 Start: 19158, Stop: 19859, Start Num: 177

Candidate Starts for TinyDot_26:

(21, 18633), (32, 18750), (36, 18777), (37, 18780), (44, 18819), (58, 18876), (59, 18879), (65, 18924), (108, 19041), (153, 19122), (166, 19143), (Start: 177 @19158 has 45 MA's), (181, 19167), (231, 19251), (235, 19266), (253, 19302), (290, 19383), (303, 19416), (305, 19422), (339, 19467), (355, 19506), (409, 19644), (411, 19650), (439, 19707), (510, 19851),

Gene: Toast_26 Start: 21477, Stop: 22187, Start Num: 173

Candidate Starts for Toast_26:

(Start: 173 @21477 has 16 MA's), (181, 21489), (185, 21495), (258, 21633), (271, 21663), (291, 21708), (302, 21735), (313, 21762), (346, 21813), (379, 21882), (388, 21897), (390, 21903), (396, 21933), (409, 21975), (411, 21981), (431, 22032), (476, 22104), (506, 22167),

Gene: Togo_43 Start: 36282, Stop: 37037, Start Num: 150

Candidate Starts for Togo_43:

(127, 36246), (140, 36267), (Start: 150 @36282 has 18 MA's), (206, 36354), (225, 36390), (266, 36462), (303, 36543), (376, 36657), (382, 36663), (392, 36690), (405, 36738), (455, 36840), (505, 36924), (540, 36996),

Gene: Tracker_19 Start: 9229, Stop: 9954, Start Num: 119

Candidate Starts for Tracker_19:

(Start: 119 @9229 has 26 MA's), (143, 9253), (172, 9286), (210, 9289), (231, 9325), (235, 9340), (257, 9382), (278, 9421), (331, 9529), (385, 9646), (405, 9721), (428, 9778), (455, 9820), (475, 9853), (487, 9874), (493, 9889), (520, 9949),

Gene: Trax_117 Start: 66615, Stop: 67343, Start Num: 159

Candidate Starts for Trax_117:

(Start: 159 @66615 has 16 MA's), (169, 66630), (194, 66675), (201, 66684), (221, 66723), (236, 66759), (272, 66813), (304, 66879), (346, 66945), (357, 66966), (385, 67023), (427, 67143), (460, 67203), (529, 67335),

Gene: Trumpet_27 Start: 22303, Stop: 22923, Start Num: 190

Candidate Starts for Trumpet_27:

(39, 21928), (78, 22099), (80, 22102), (Start: 112 @22183 has 1 MA's), (121, 22204), (Start: 190 @22303 has 15 MA's), (Start: 200 @22312 has 2 MA's), (224, 22357), (266, 22438), (309, 22537), (332, 22573), (356, 22624), (380, 22672), (399, 22735), (409, 22765), (437, 22816), (487, 22867), (500, 22894),

Gene: TuertoX_24 Start: 19798, Stop: 20505, Start Num: 177

Candidate Starts for TuertoX_24:

(98, 19654), (Start: 177 @19798 has 45 MA's), (211, 19855), (231, 19894), (253, 19945), (258, 19954), (266, 19972), (267, 19975), (291, 20029), (292, 20032), (305, 20065), (313, 20083), (339, 20110), (370, 20188), (399, 20257), (401, 20263), (409, 20287), (411, 20293), (510, 20497),

Gene: Turuncu_22 Start: 8752, Stop: 9522, Start Num: 119

Candidate Starts for Turuncu_22:

(Start: 119 @8752 has 26 MA's), (130, 8770), (Start: 208 @8860 has 1 MA's), (235, 8914), (257, 8956), (365, 9184), (385, 9217), (386, 9220), (487, 9439), (508, 9487), (511, 9493),

Gene: Twinkle_25 Start: 22890, Stop: 23678, Start Num: 155

Candidate Starts for Twinkle_25:

(Start: 146 @22878 has 2 MA's), (Start: 155 @22890 has 22 MA's), (Start: 167 @22902 has 3 MA's), (169, 22905), (Start: 184 @22932 has 1 MA's), (Start: 196 @22944 has 1 MA's), (225, 22995), (268, 23088), (289, 23133), (290, 23136), (291, 23139), (319, 23199), (330, 23217), (337, 23229), (339, 23232), (340, 23235), (385, 23325), (410, 23412), (497, 23580), (507, 23598), (527, 23634), (536, 23658),

Gene: Twister6_46 Start: 36083, Stop: 36838, Start Num: 151

Candidate Starts for Twister6_46:

(100, 35987), (Start: 151 @36083 has 15 MA's), (206, 36155), (225, 36191), (266, 36263), (275, 36278), (376, 36458), (382, 36464), (392, 36491), (455, 36641), (505, 36725), (540, 36797),

Gene: Tycho_45 Start: 39282, Stop: 40025, Start Num: 156

Candidate Starts for Tycho_45:

(Start: 156 @39282 has 75 MA's), (Start: 167 @39300 has 3 MA's), (197, 39345), (225, 39390), (265, 39465), (274, 39483), (281, 39495), (291, 39525), (302, 39552), (360, 39645), (363, 39657), (427, 39813), (431, 39825), (446, 39852), (467, 39885), (501, 39951), (517, 39978),

Gene: UBSmoodge_32 Start: 23407, Stop: 24087, Start Num: 119

Candidate Starts for UBSmoodge_32:

(110, 23386), (Start: 119 @23407 has 26 MA's), (Start: 208 @23464 has 1 MA's), (219, 23485), (276, 23581), (290, 23614), (303, 23644), (304, 23647), (313, 23668), (320, 23674), (331, 23692), (341, 23713), (370, 23782), (385, 23806), (391, 23824), (395, 23845), (431, 23938), (437, 23947), (446, 23953), (487, 23998), (516, 24067), (526, 24082),

Gene: UmaThurman_25 Start: 21277, Stop: 22080, Start Num: 156

Candidate Starts for UmaThurman_25:

(Start: 156 @21277 has 75 MA's), (Start: 184 @21325 has 1 MA's), (Start: 196 @21337 has 1 MA's), (268, 21481), (277, 21493), (291, 21532), (319, 21592), (330, 21610), (337, 21622), (339, 21625), (340, 21628), (410, 21805), (423, 21826), (425, 21832), (427, 21841), (506, 21988), (527, 22024), (536, 22048), (547, 22069),

Gene: Untouchable_30 Start: 22449, Stop: 23237, Start Num: 171

Candidate Starts for Untouchable_30:

(Start: 171 @22449 has 34 MA's), (197, 22494), (215, 22524), (220, 22536), (242, 22590), (246, 22596), (269, 22641), (310, 22737), (322, 22755), (327, 22764), (337, 22779), (408, 22968), (409, 22971), (414, 22986), (440, 23046), (452, 23073), (506, 23193),

Gene: Utz_25 Start: 21147, Stop: 21947, Start Num: 156

Candidate Starts for Utz_25:

(Start: 156 @21147 has 75 MA's), (Start: 184 @21195 has 1 MA's), (Start: 196 @21207 has 1 MA's), (225, 21258), (268, 21351), (291, 21402), (315, 21459), (319, 21462), (330, 21480), (337, 21492), (339, 21495), (340, 21498), (401, 21651), (410, 21675), (423, 21696), (527, 21894), (536, 21918), (547, 21936),

Gene: Valary_46 Start: 37125, Stop: 37880, Start Num: 151

Candidate Starts for Valary_46:

(108, 37047), (Start: 151 @37125 has 15 MA's), (206, 37197), (266, 37305), (288, 37350), (376, 37500), (382, 37506), (392, 37533), (405, 37581), (455, 37683), (505, 37767), (540, 37839),

Gene: VanDeWege_47 Start: 36417, Stop: 37172, Start Num: 151

Candidate Starts for VanDeWege_47:

(108, 36339), (Start: 151 @36417 has 15 MA's), (206, 36489), (266, 36597), (288, 36642), (376, 36792), (382, 36798), (392, 36825), (405, 36873), (455, 36975), (505, 37059), (540, 37131),

Gene: VanLee_104 Start: 55246, Stop: 55980, Start Num: 160

Candidate Starts for VanLee_104:

(129, 55198), (Start: 160 @55246 has 5 MA's), (Start: 173 @55264 has 16 MA's), (205, 55309), (214, 55321), (236, 55372), (263, 55399), (277, 55426), (291, 55462), (307, 55501), (337, 55537), (349, 55555), (361, 55579), (384, 55618), (392, 55645), (449, 55783), (498, 55864), (548, 55969),

Gene: Vardy_30 Start: 22058, Stop: 22846, Start Num: 171

Candidate Starts for Vardy_30:

(Start: 171 @22058 has 34 MA's), (215, 22133), (220, 22145), (242, 22199), (246, 22205), (269, 22250), (283, 22280), (310, 22346), (322, 22364), (330, 22376), (333, 22382), (337, 22388), (408, 22577), (409, 22580), (414, 22595), (440, 22655), (506, 22802),

Gene: Vasanti_23 Start: 19352, Stop: 20059, Start Num: 177

Candidate Starts for Vasanti_23:

(98, 19208), (Start: 177 @19352 has 45 MA's), (211, 19409), (231, 19448), (258, 19508), (267, 19529), (290, 19580), (291, 19583), (292, 19586), (305, 19619), (313, 19637), (315, 19640), (370, 19742), (399, 19811), (402, 19820), (409, 19841), (411, 19847), (496, 20021), (510, 20051),

Gene: Verity_46 Start: 41437, Stop: 42174, Start Num: 150

Candidate Starts for Verity_46:

(16, 40798), (22, 40969), (23, 41011), (47, 41152), (Start: 146 @41428 has 2 MA's), (Start: 150 @41437 has 18 MA's), (Start: 154 @41443 has 1 MA's), (Start: 159 @41452 has 16 MA's), (215, 41536), (225, 41557), (231, 41566), (260, 41605), (265, 41617), (274, 41635), (291, 41677), (333, 41749), (337, 41755), (397, 41881), (410, 41920), (423, 41941), (427, 41956), (441, 41983), (521, 42130),

Gene: ViaConlectus_46 Start: 39318, Stop: 40043, Start Num: 159

Candidate Starts for ViaConlectus_46:

(61, 39102), (99, 39207), (Start: 159 @39318 has 16 MA's), (225, 39423), (265, 39483), (274, 39501), (291, 39543), (321, 39600), (337, 39624), (370, 39690), (410, 39789), (427, 39825), (441, 39852), (501, 39963), (521, 39999),

Gene: Vivi2_48 Start: 40816, Stop: 41550, Start Num: 156

Candidate Starts for Vivi2_48:

(82, 40669), (Start: 120 @40759 has 3 MA's), (Start: 156 @40816 has 75 MA's), (Start: 167 @40834 has 3 MA's), (225, 40921), (237, 40948), (265, 40996), (274, 41014), (291, 41056), (335, 41134), (360, 41176), (375, 41209), (427, 41344), (446, 41383), (501, 41482), (517, 41509), (534, 41542),

Gene: Vordorf_47 Start: 35552, Stop: 36358, Start Num: 152

Candidate Starts for Vordorf_47:

(Start: 131 @35519 has 6 MA's), (Start: 152 @35552 has 27 MA's), (Start: 196 @35615 has 1 MA's), (240, 35705), (297, 35837), (300, 35843), (301, 35846), (371, 35993), (399, 36074), (410, 36104), (413, 36110), (437, 36161), (506, 36287), (532, 36335),

Gene: Walrus_27 Start: 21692, Stop: 22495, Start Num: 156

Candidate Starts for Walrus_27:

(Start: 156 @21692 has 75 MA's), (Start: 184 @21740 has 1 MA's), (Start: 196 @21752 has 1 MA's), (207, 21767), (268, 21896), (277, 21908), (291, 21947), (309, 21992), (310, 21995), (319, 22007), (330, 22025), (337, 22037), (339, 22040), (340, 22043), (410, 22220), (423, 22241), (425, 22247), (506, 22403), (527, 22439), (536, 22463), (547, 22484),

Gene: Weasels2_31 Start: 9643, Stop: 8966, Start Num: 204

Candidate Starts for Weasels2_31:

(Start: 204 @9643 has 3 MA's), (223, 9604), (238, 9574), (246, 9553), (264, 9520), (344, 9346), (365, 9292), (408, 9181),

Gene: WelcomeAyanna_24 Start: 22284, Stop: 22901, Start Num: 189

Candidate Starts for WelcomeAyanna_24:

(121, 22185), (153, 22224), (Start: 174 @22257 has 6 MA's), (Start: 189 @22284 has 20 MA's), (198, 22290), (Start: 200 @22293 has 2 MA's), (224, 22335), (254, 22395), (290, 22470), (298, 22488), (309, 22515), (332, 22551), (356, 22602), (364, 22623), (399, 22713), (437, 22794), (500, 22872),

Gene: Wheezy_19 Start: 9432, Stop: 10157, Start Num: 119

Candidate Starts for Wheezy_19:

(Start: 119 @9432 has 26 MA's), (143, 9456), (172, 9489), (210, 9492), (231, 9528), (235, 9543), (257, 9585), (278, 9624), (331, 9732), (385, 9849), (405, 9924), (428, 9981), (455, 10023), (475, 10056), (487, 10077), (493, 10092), (520, 10152),

Gene: Whiteclaw_24 Start: 19798, Stop: 20505, Start Num: 177

Candidate Starts for Whiteclaw_24:

(98, 19654), (Start: 177 @19798 has 45 MA's), (211, 19855), (231, 19894), (253, 19945), (258, 19954), (266, 19972), (267, 19975), (291, 20029), (292, 20032), (305, 20065), (313, 20083), (339, 20110), (370, 20188), (399, 20257), (401, 20263), (409, 20287), (411, 20293), (510, 20497),

Gene: Whitney_29 Start: 22410, Stop: 23033, Start Num: 195

Candidate Starts for Whitney_29:

(42, 22035), (52, 22092), (62, 22137), (78, 22191), (80, 22194), (94, 22230), (Start: 112 @22275 has 1 MA's), (113, 22278), (Start: 195 @22410 has 27 MA's), (Start: 200 @22416 has 2 MA's), (217, 22446), (224, 22461), (254, 22521), (293, 22602), (309, 22641), (349, 22713), (380, 22776), (395, 22821), (399, 22839), (406, 22860), (409, 22869), (500, 23001), (506, 23010), (510, 23022),

Gene: WhoseManz_19 Start: 7300, Stop: 8043, Start Num: 170

Candidate Starts for WhoseManz_19:

(102, 7171), (168, 7297), (Start: 170 @7300 has 2 MA's), (Start: 208 @7363 has 1 MA's), (210, 7366), (216, 7378), (257, 7459), (331, 7609), (343, 7633), (357, 7666), (405, 7798), (469, 7924), (487, 7960), (511, 8014),

Gene: William_26 Start: 21300, Stop: 22013, Start Num: 173

Candidate Starts for William_26:

(Start: 163 @21285 has 4 MA's), (Start: 173 @21300 has 16 MA's), (181, 21312), (183, 21315), (185, 21318), (241, 21426), (258, 21456), (271, 21486), (291, 21531), (309, 21576), (313, 21585), (339, 21618), (346, 21636), (388, 21723), (390, 21729), (396, 21759), (402, 21780), (409, 21801), (411, 21807), (427, 21846), (431, 21858), (476, 21930), (506, 21993),

Gene: WinkNick_25 Start: 21234, Stop: 22010, Start Num: 167

Candidate Starts for WinkNick_25:

(Start: 146 @21210 has 2 MA's), (Start: 155 @21222 has 22 MA's), (Start: 167 @21234 has 3 MA's), (169, 21237), (Start: 184 @21264 has 1 MA's), (Start: 196 @21276 has 1 MA's), (225, 21327), (268, 21420), (289, 21465), (290, 21468), (291, 21471), (319, 21531), (330, 21549), (337, 21561), (339, 21564), (340, 21567), (385, 21657), (410, 21744), (527, 21966), (536, 21990),

Gene: Wisp_24 Start: 20862, Stop: 21665, Start Num: 156

Candidate Starts for Wisp_24:

(Start: 156 @20862 has 75 MA's), (Start: 184 @20910 has 1 MA's), (Start: 196 @20922 has 1 MA's), (207, 20937), (225, 20973), (268, 21066), (291, 21117), (315, 21174), (319, 21177), (330, 21195), (337, 21207), (339, 21210), (340, 21213), (410, 21390), (423, 21411), (425, 21417), (506, 21573), (527, 21609), (536, 21633), (547, 21654),

Gene: Wizard_43 Start: 36323, Stop: 37078, Start Num: 151

Candidate Starts for Wizard_43:

(108, 36245), (Start: 151 @36323 has 15 MA's), (206, 36395), (266, 36503), (288, 36548), (376, 36698), (382, 36704), (392, 36731), (405, 36779), (455, 36881), (505, 36965), (540, 37037),

Gene: Wocket_27 Start: 21844, Stop: 22632, Start Num: 159

Candidate Starts for Wocket_27:

(110, 21760), (Start: 159 @21844 has 16 MA's), (Start: 196 @21898 has 1 MA's), (225, 21949), (268, 22042), (291, 22093), (310, 22141), (319, 22153), (330, 22171), (337, 22183), (339, 22186), (340, 22189), (410, 22366), (423, 22387), (527, 22585), (536, 22609),

Gene: Wojtek_79 Start: 58771, Stop: 59619, Start Num: 152

Candidate Starts for Wojtek_79:

(139, 58747), (140, 58750), (Start: 152 @58771 has 27 MA's), (Start: 158 @58780 has 1 MA's), (Start: 165 @58792 has 1 MA's), (Start: 171 @58801 has 34 MA's), (Start: 184 @58825 has 1 MA's), (201, 58843), (205, 58849), (232, 58900), (275, 58996), (280, 59005), (289, 59032), (293, 59044), (309, 59083), (392, 59263), (412, 59329), (416, 59338), (430, 59368), (444, 59395), (456, 59419), (478, 59473), (496, 59518), (502, 59530), (533, 59596),

Gene: Wooper_45 Start: 37588, Stop: 38310, Start Num: 177

Candidate Starts for Wooper_45:

(85, 37402), (Start: 177 @37588 has 45 MA's), (262, 37750), (273, 37777), (277, 37783), (339, 37897), (381, 37981), (409, 38074), (423, 38104),

Gene: Wrigley_28 Start: 22650, Stop: 23273, Start Num: 189

Candidate Starts for Wrigley_28:

(Start: 189 @22650 has 20 MA's), (202, 22659), (224, 22701), (239, 22737), (266, 22782), (276, 22803), (290, 22836), (309, 22881), (349, 22953), (356, 22968), (380, 23016), (395, 23061), (399, 23079), (406, 23100), (409, 23109), (437, 23163), (487, 23214), (500, 23241), (506, 23250), (507, 23253),

Gene: Xenia2_89 Start: 59110, Stop: 59985, Start Num: 134

Candidate Starts for Xenia2_89:

(Start: 134 @59110 has 1 MA's), (Start: 142 @59122 has 1 MA's), (Start: 151 @59140 has 15 MA's), (Start: 165 @59152 has 1 MA's), (Start: 171 @59161 has 34 MA's), (201, 59203), (255, 59311), (293, 59404), (346, 59509), (355, 59530), (358, 59536), (359, 59539), (392, 59623), (435, 59737), (444, 59755), (454, 59776), (488, 59851), (511, 59908),

Gene: Yago84_42 Start: 36147, Stop: 36872, Start Num: 175

Candidate Starts for Yago84_42:

(74, 35949), (104, 36021), (Start: 175 @36147 has 6 MA's), (258, 36306), (262, 36312), (271, 36336), (276, 36345), (282, 36357), (287, 36372), (313, 36438), (340, 36468), (381, 36552), (399, 36615), (407, 36639), (409, 36645), (496, 36828), (500, 36837),

Gene: Yeet412_24 Start: 19791, Stop: 20498, Start Num: 177

Candidate Starts for Yeet412_24:

(98, 19647), (Start: 177 @19791 has 45 MA's), (211, 19848), (231, 19887), (258, 19947), (266, 19965), (267, 19968), (276, 19986), (291, 20022), (292, 20025), (305, 20058), (313, 20076), (339, 20103), (370, 20181), (399, 20250), (409, 20280), (411, 20286), (510, 20490),

Gene: Yeezy_27 Start: 21525, Stop: 22145, Start Num: 190

Candidate Starts for Yeezy_27:

(Start: 190 @21525 has 15 MA's), (Start: 200 @21534 has 2 MA's), (224, 21579), (266, 21660), (290, 21714), (309, 21759), (332, 21795), (356, 21846), (380, 21894), (399, 21957), (409, 21987), (437, 22038), (500, 22116),

Gene: Yikes_87 Start: 59300, Stop: 60151, Start Num: 152

Candidate Starts for Yikes_87:

(70, 59123), (83, 59150), (88, 59159), (91, 59174), (96, 59183), (139, 59276), (140, 59279), (Start: 152 @59300 has 27 MA's), (Start: 158 @59309 has 1 MA's), (Start: 171 @59330 has 34 MA's), (201, 59372), (205, 59378), (228, 59423), (275, 59528), (289, 59564), (293, 59576), (309, 59615), (328, 59645), (330, 59648), (337, 59660), (392, 59795), (412, 59861), (416, 59870), (430, 59900), (444, 59927), (456, 59951), (478, 60005), (496, 60050), (502, 60062), (533, 60128),

Gene: Yndexa_19 Start: 7686, Stop: 8480, Start Num: 120

Candidate Starts for Yndexa_19:

(Start: 120 @7686 has 3 MA's), (Start: 208 @7800 has 1 MA's), (210, 7803), (216, 7815), (257, 7896), (331, 8046), (343, 8070), (357, 8103), (405, 8235), (469, 8361), (487, 8397), (511, 8451),

Gene: YorkOnyx_46 Start: 39539, Stop: 40282, Start Num: 156

Candidate Starts for YorkOnyx_46:

(Start: 156 @39539 has 75 MA's), (Start: 167 @39557 has 3 MA's), (197, 39602), (225, 39647), (237, 39674), (251, 39692), (265, 39722), (274, 39740), (281, 39752), (291, 39782), (302, 39809), (360, 39902), (363, 39914), (412, 40034), (427, 40070), (431, 40082), (446, 40109), (467, 40142), (479, 40169), (483, 40175), (501, 40208), (517, 40235),

Gene: YungMoney_47 Start: 38725, Stop: 39480, Start Num: 150

Candidate Starts for YungMoney_47:

(140, 38710), (Start: 150 @38725 has 18 MA's), (206, 38797), (223, 38830), (225, 38833), (236, 38860), (245, 38881), (266, 38905), (367, 39085), (376, 39100), (382, 39106), (392, 39133), (405, 39181), (455, 39283), (505, 39367), (540, 39439),

Gene: ZAYM_27 Start: 22255, Stop: 22968, Start Num: 177

Candidate Starts for ZAYM_27:

(54, 21961), (55, 21964), (72, 22045), (87, 22075), (Start: 142 @22198 has 1 MA's), (Start: 177 @22255 has 45 MA's), (217, 22321), (231, 22348), (235, 22363), (258, 22408), (282, 22459), (292, 22486), (302, 22510), (342, 22573), (385, 22657), (399, 22714), (405, 22732), (409, 22744), (411, 22750),

Gene: Zameen_27 Start: 22303, Stop: 22923, Start Num: 190

Candidate Starts for Zameen_27:

(39, 21928), (78, 22099), (80, 22102), (Start: 112 @22183 has 1 MA's), (121, 22204), (Start: 190 @22303 has 15 MA's), (Start: 200 @22312 has 2 MA's), (224, 22357), (266, 22438), (309, 22537), (332, 22573), (356, 22624), (380, 22672), (399, 22735), (409, 22765), (437, 22816), (487, 22867), (500, 22894),

Gene: Zany_85 Start: 59554, Stop: 60444, Start Num: 152

Candidate Starts for Zany_85:

(139, 59530), (140, 59533), (Start: 152 @59554 has 27 MA's), (Start: 158 @59563 has 1 MA's), (Start: 171 @59584 has 34 MA's), (201, 59626), (205, 59632), (275, 59782), (280, 59791), (289, 59818), (293, 59830), (309, 59869), (392, 60049), (412, 60115), (416, 60124), (430, 60154), (444, 60181), (456, 60205), (478, 60259), (496, 60304), (502, 60316), (544, 60403), (549, 60436),

Gene: Zarbodnamra_25 Start: 21151, Stop: 21954, Start Num: 156

Candidate Starts for Zarbodnamra_25:

(Start: 156 @21151 has 75 MA's), (Start: 184 @21199 has 1 MA's), (Start: 196 @21211 has 1 MA's), (207, 21226), (225, 21262), (268, 21355), (291, 21406), (315, 21463), (319, 21466), (330, 21484), (337, 21496), (339, 21499), (340, 21502), (410, 21679), (423, 21700), (425, 21706), (506, 21862), (527, 21898), (536, 21922), (547, 21943),

Gene: Zeph_32 Start: 22807, Stop: 23595, Start Num: 171

Candidate Starts for Zeph_32:

(Start: 171 @22807 has 34 MA's), (215, 22882), (220, 22894), (242, 22948), (246, 22954), (269, 22999), (310, 23095), (322, 23113), (327, 23122), (333, 23131), (337, 23137), (408, 23326), (409, 23329), (414, 23344), (440, 23404), (506, 23551),

Gene: ZiggyZoo_25 Start: 21074, Stop: 21871, Start Num: 155

Candidate Starts for ZiggyZoo_25:

(24, 20681), (48, 20810), (77, 20921), (89, 20948), (103, 20984), (Start: 155 @21074 has 22 MA's), (Start: 196 @21128 has 1 MA's), (207, 21143), (225, 21179), (268, 21272), (277, 21284), (290, 21320), (291, 21323), (310, 21371), (315, 21380), (319, 21383), (330, 21401), (337, 21413), (339, 21416), (340, 21419), (399, 21566), (410, 21596), (423, 21617), (425, 21623), (427, 21632), (527, 21815), (536, 21839), (547, 21860),

Gene: Zipp_47 Start: 41352, Stop: 42089, Start Num: 150

Candidate Starts for Zipp_47:

(18, 40737), (19, 40776), (22, 40884), (23, 40926), (47, 41067), (Start: 146 @41343 has 2 MA's), (Start: 150 @41352 has 18 MA's), (Start: 154 @41358 has 1 MA's), (Start: 159 @41367 has 16 MA's), (225, 41472), (231, 41481), (260, 41520), (265, 41532), (274, 41550), (291, 41592), (333, 41664), (337, 41670), (397, 41796), (410, 41835), (423, 41856), (427, 41871), (441, 41898), (521, 42045),

Gene: Zirinka_25 Start: 22321, Stop: 22938, Start Num: 189

Candidate Starts for Zirinka_25:

(121, 22222), (153, 22261), (Start: 174 @22294 has 6 MA's), (Start: 189 @22321 has 20 MA's), (Start: 200 @22330 has 2 MA's), (224, 22372), (231, 22384), (254, 22432), (266, 22453), (276, 22474), (290, 22507), (309, 22552), (332, 22588), (356, 22639), (399, 22750), (409, 22780), (437, 22831), (500, 22909),

Gene: Zitch_49 Start: 39473, Stop: 40198, Start Num: 159

Candidate Starts for Zitch_49:

(86, 39326), (99, 39362), (Start: 159 @39473 has 16 MA's), (Start: 196 @39527 has 1 MA's), (225, 39578), (231, 39587), (265, 39638), (274, 39656), (291, 39698), (321, 39755), (337, 39779), (370, 39845), (397, 39905), (410, 39944), (427, 39980), (441, 40007), (501, 40118), (521, 40154),