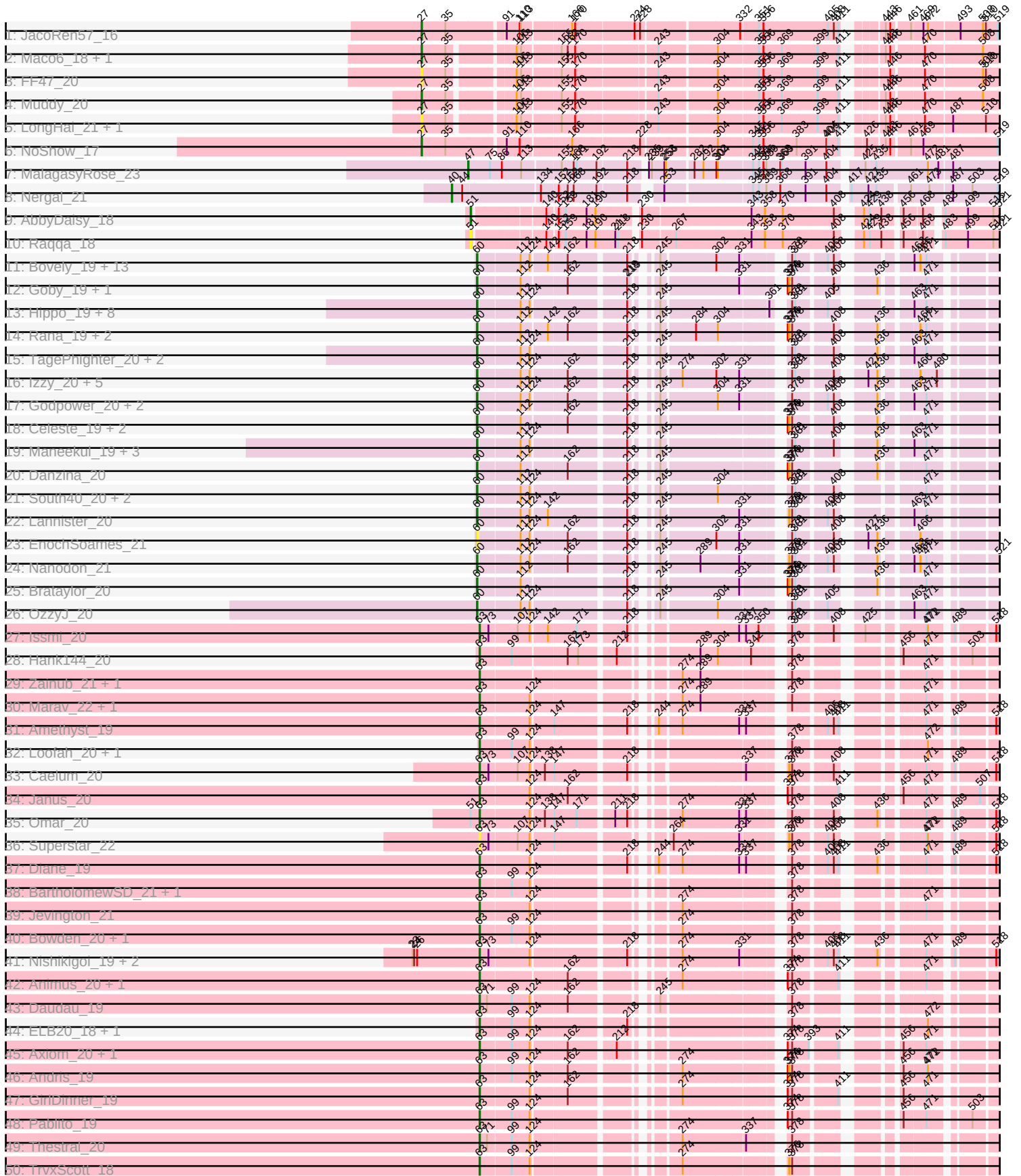
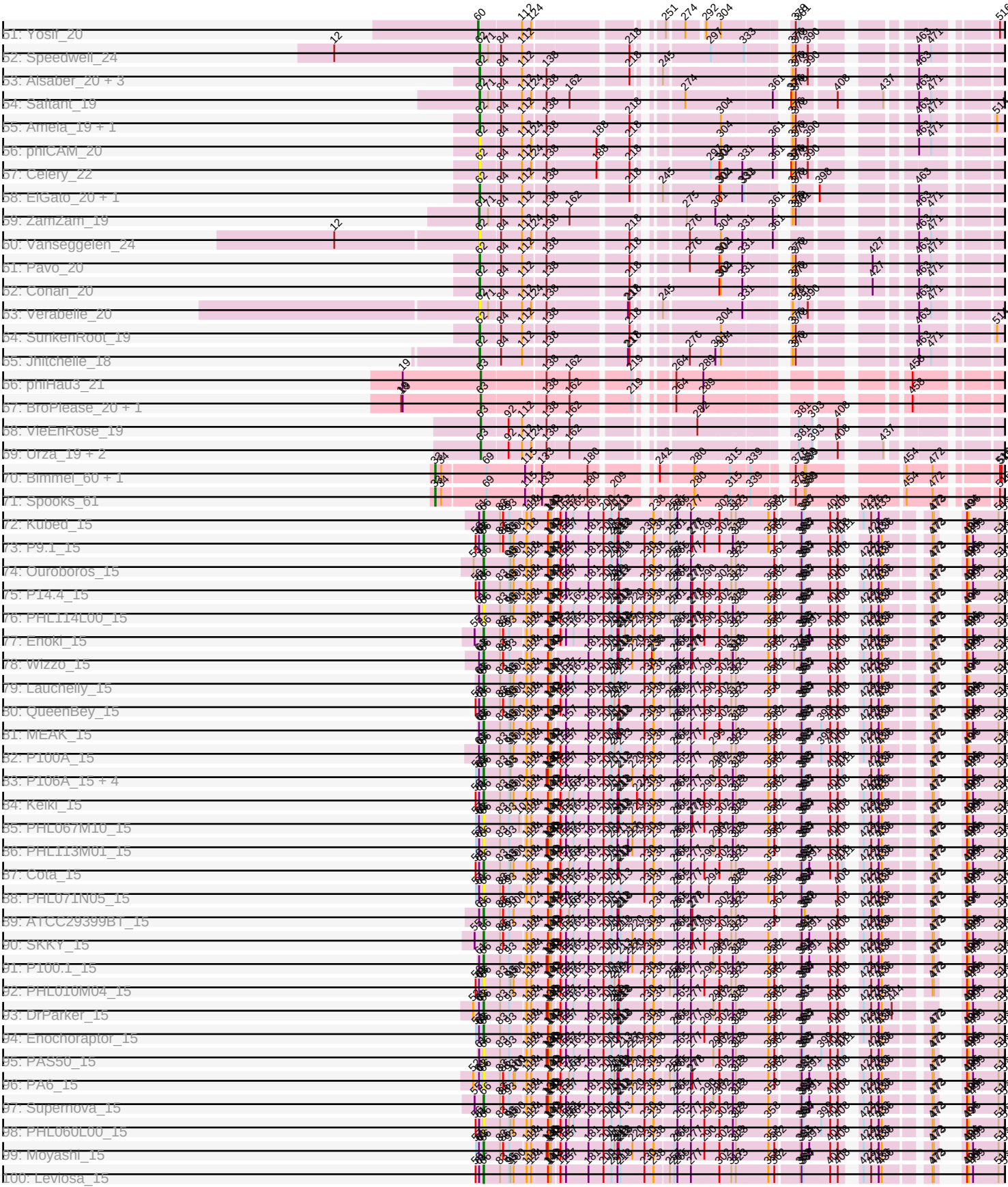


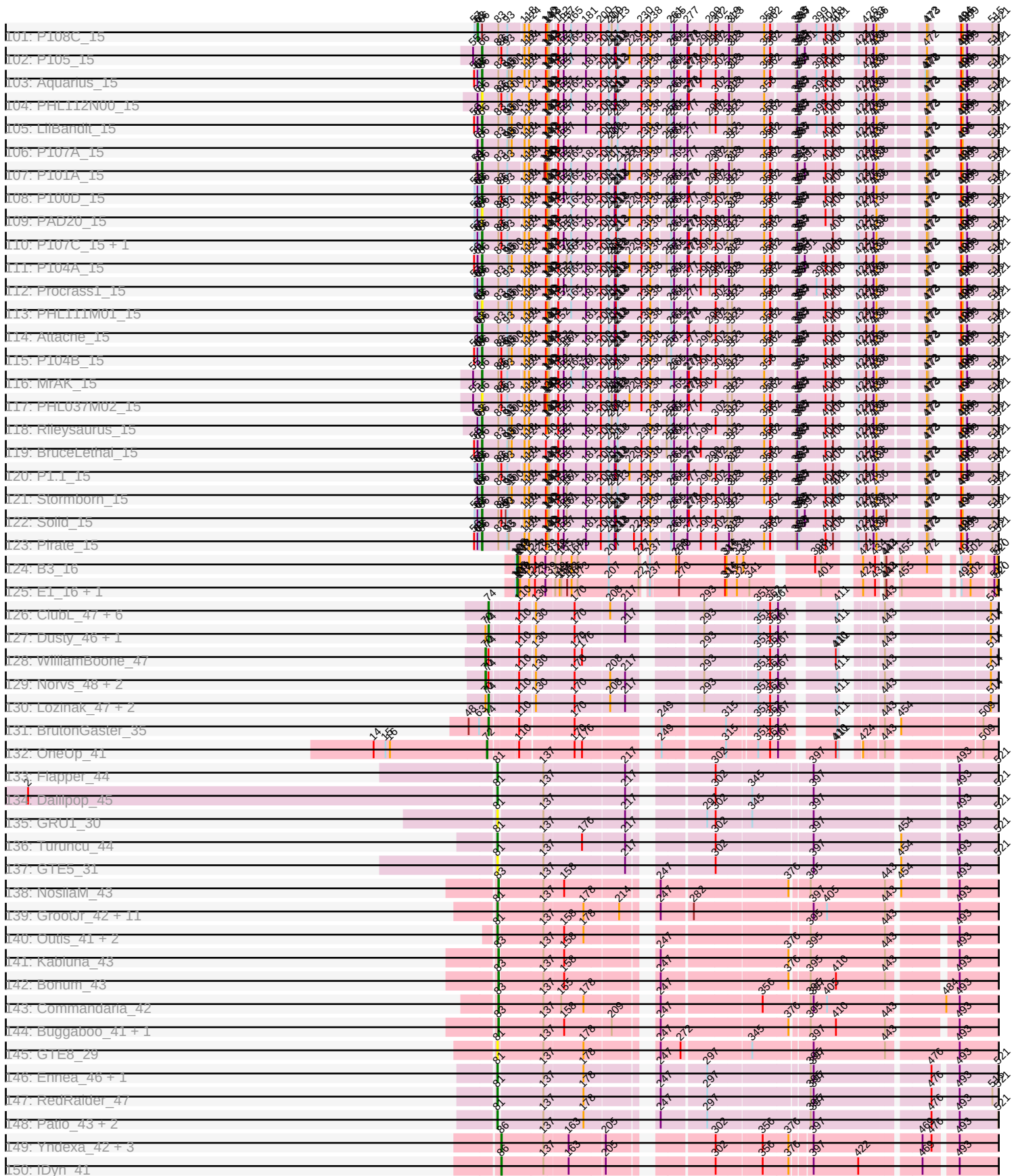
Zoomed Pham 330276



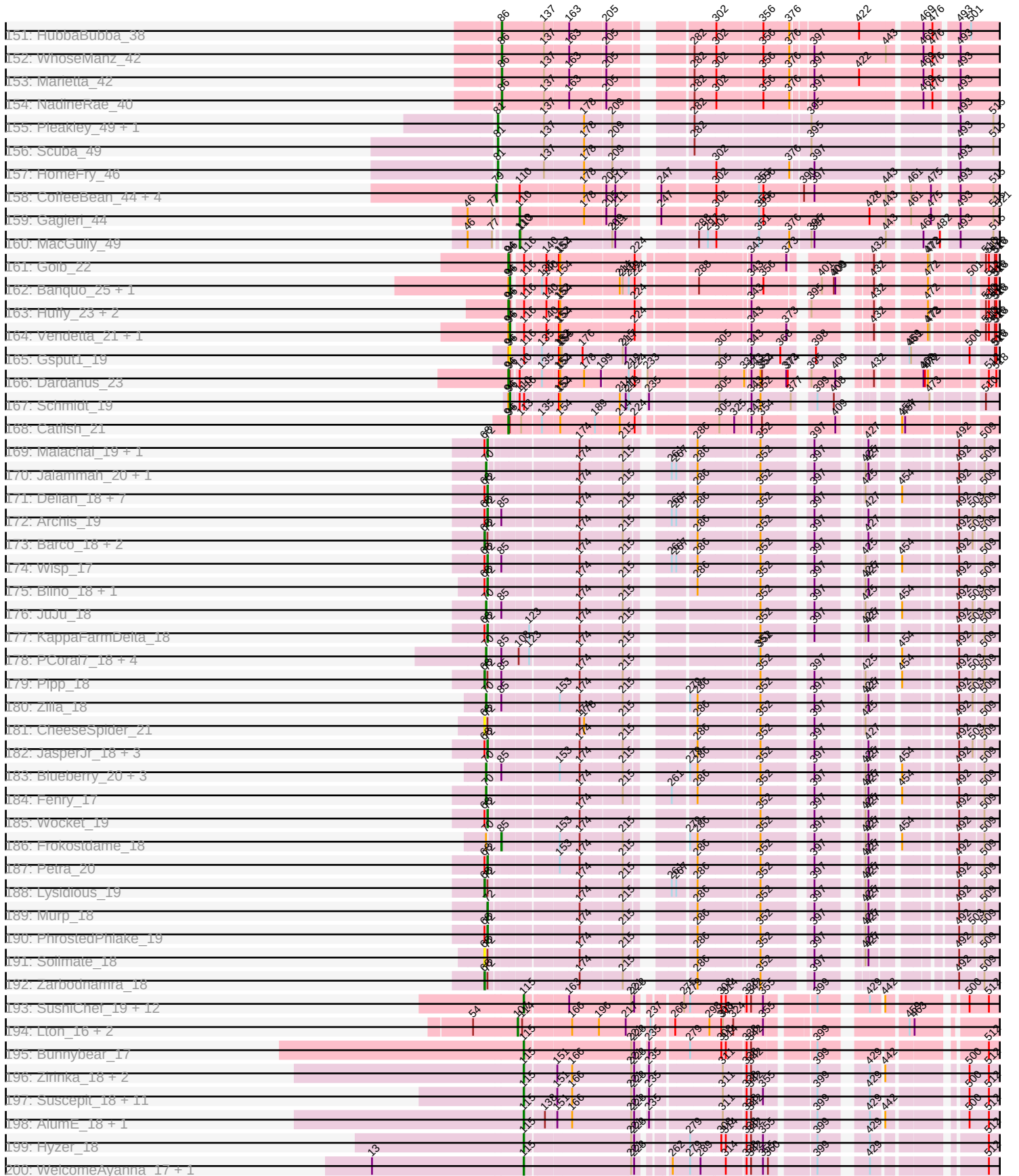
Zoomed Pham 330276



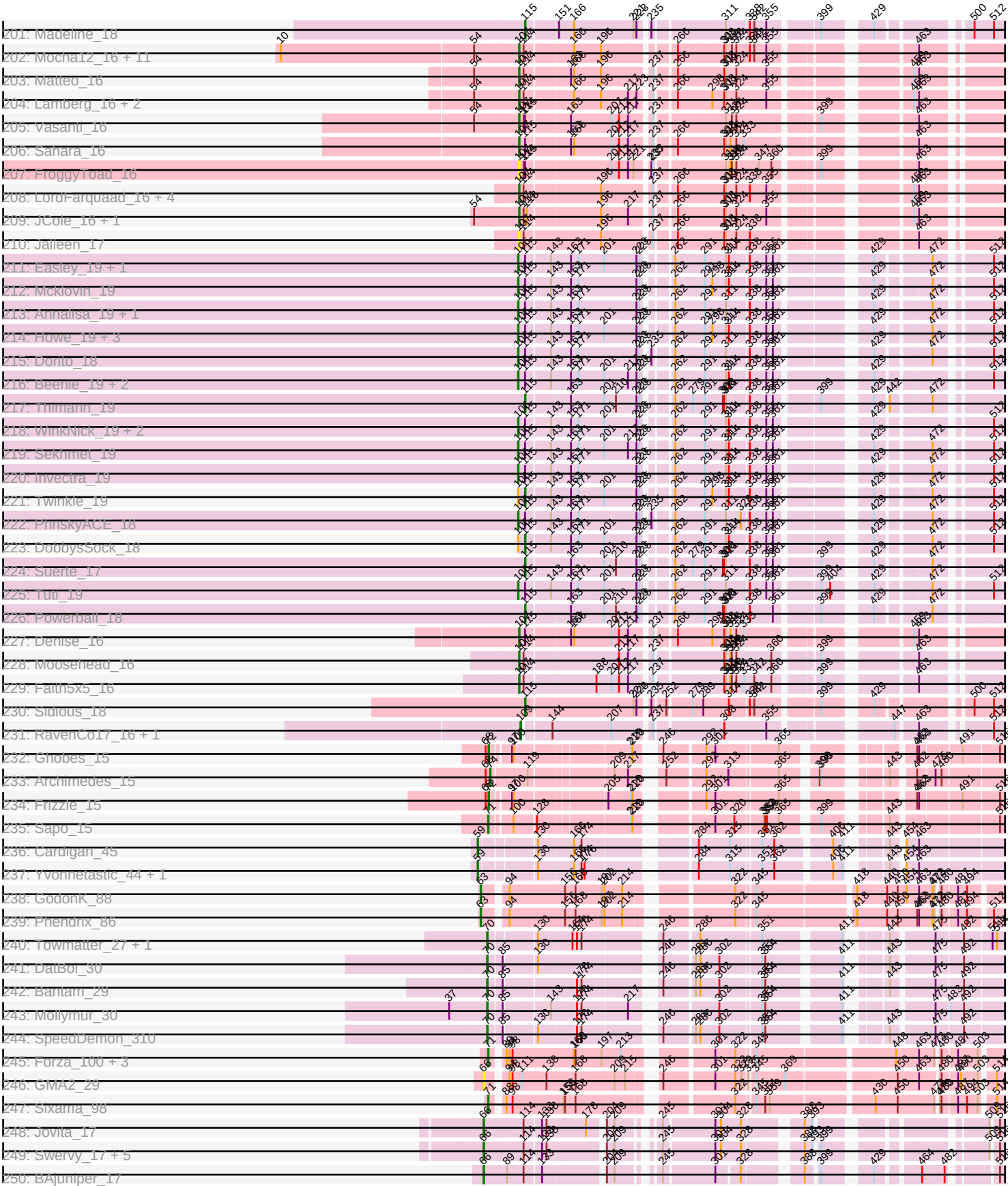
Zoomed Pham 330276



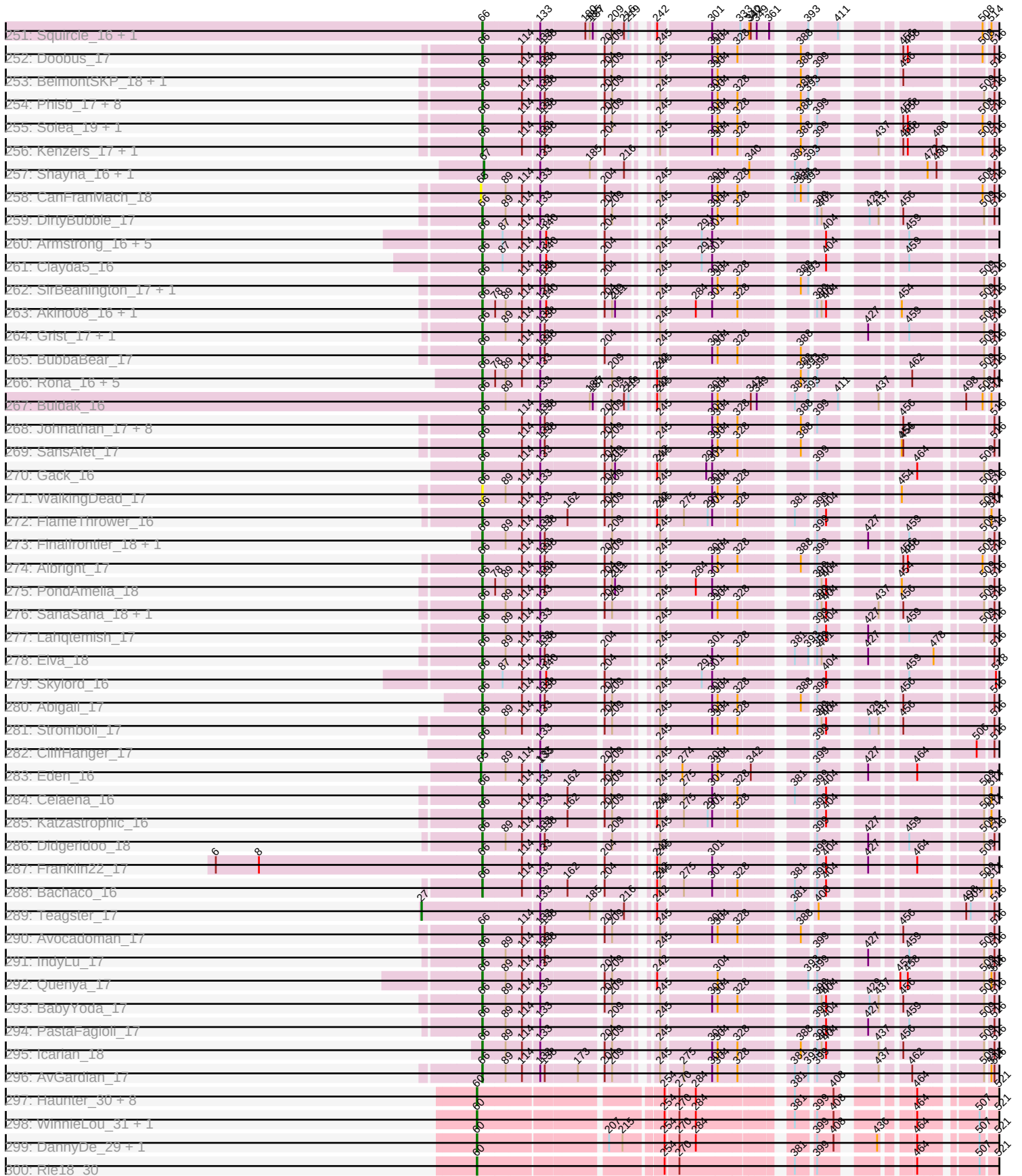
Zoomed Pham 330276



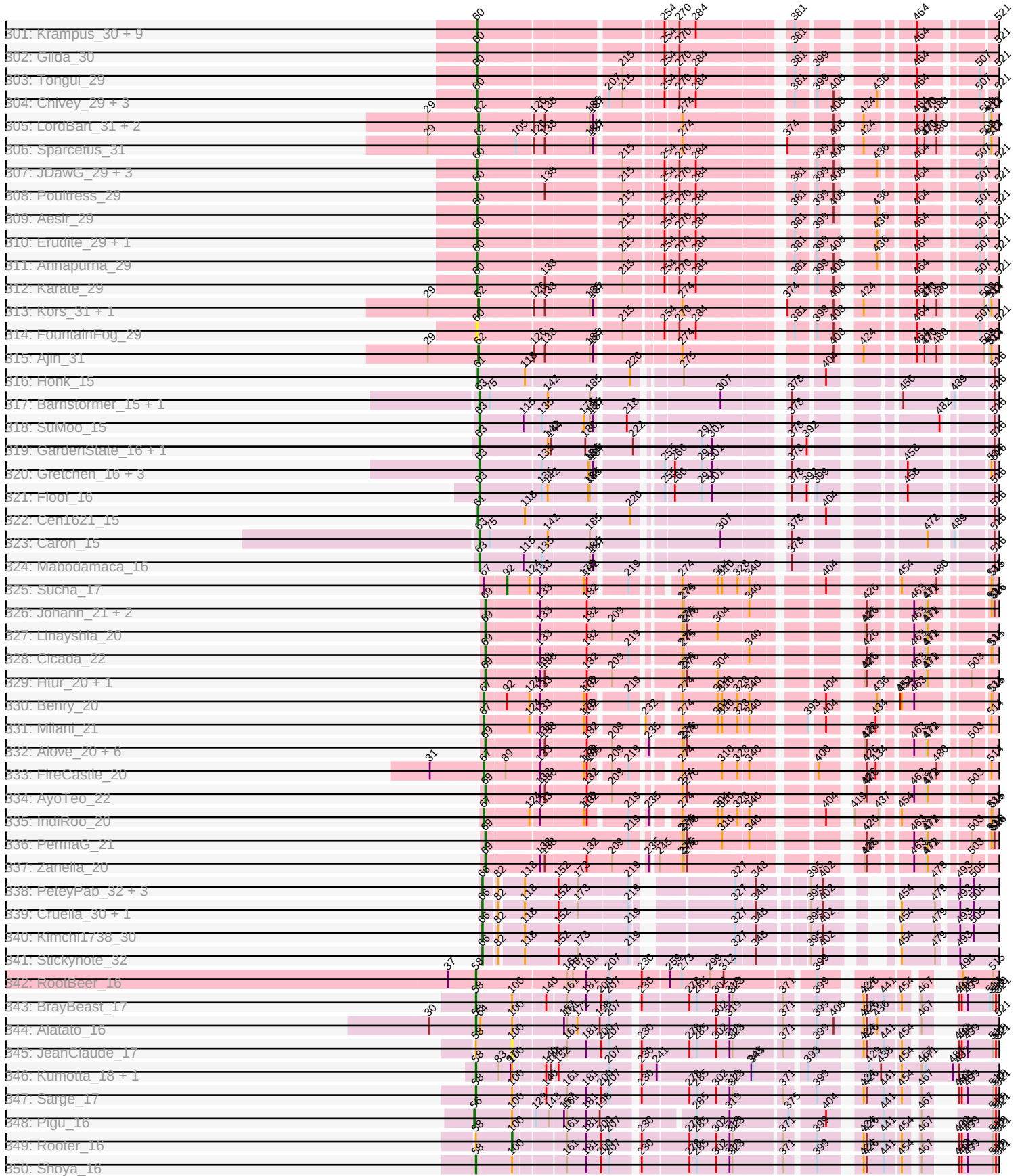
Zoomed Pham 330276



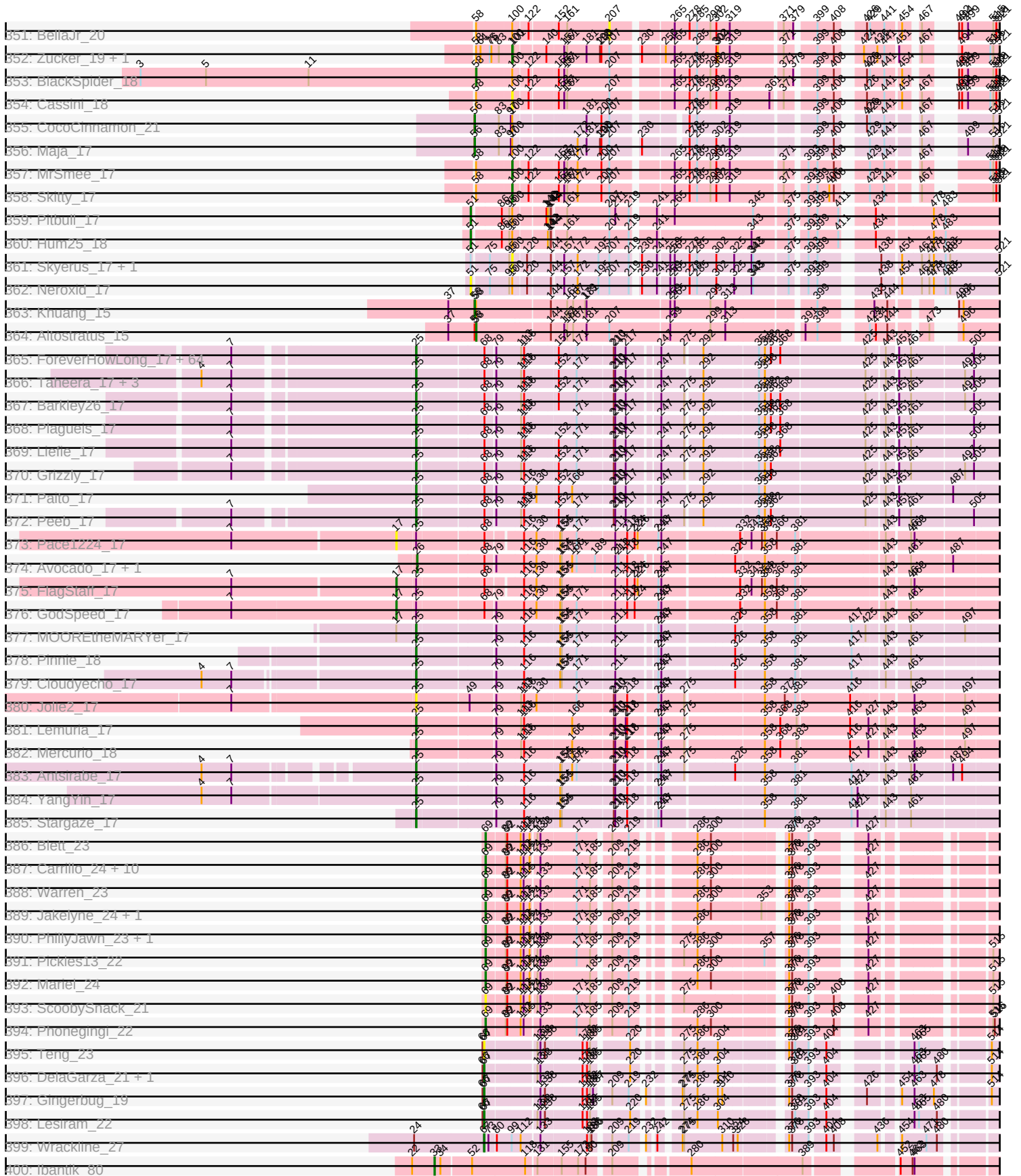
Zoomed Pham 330276



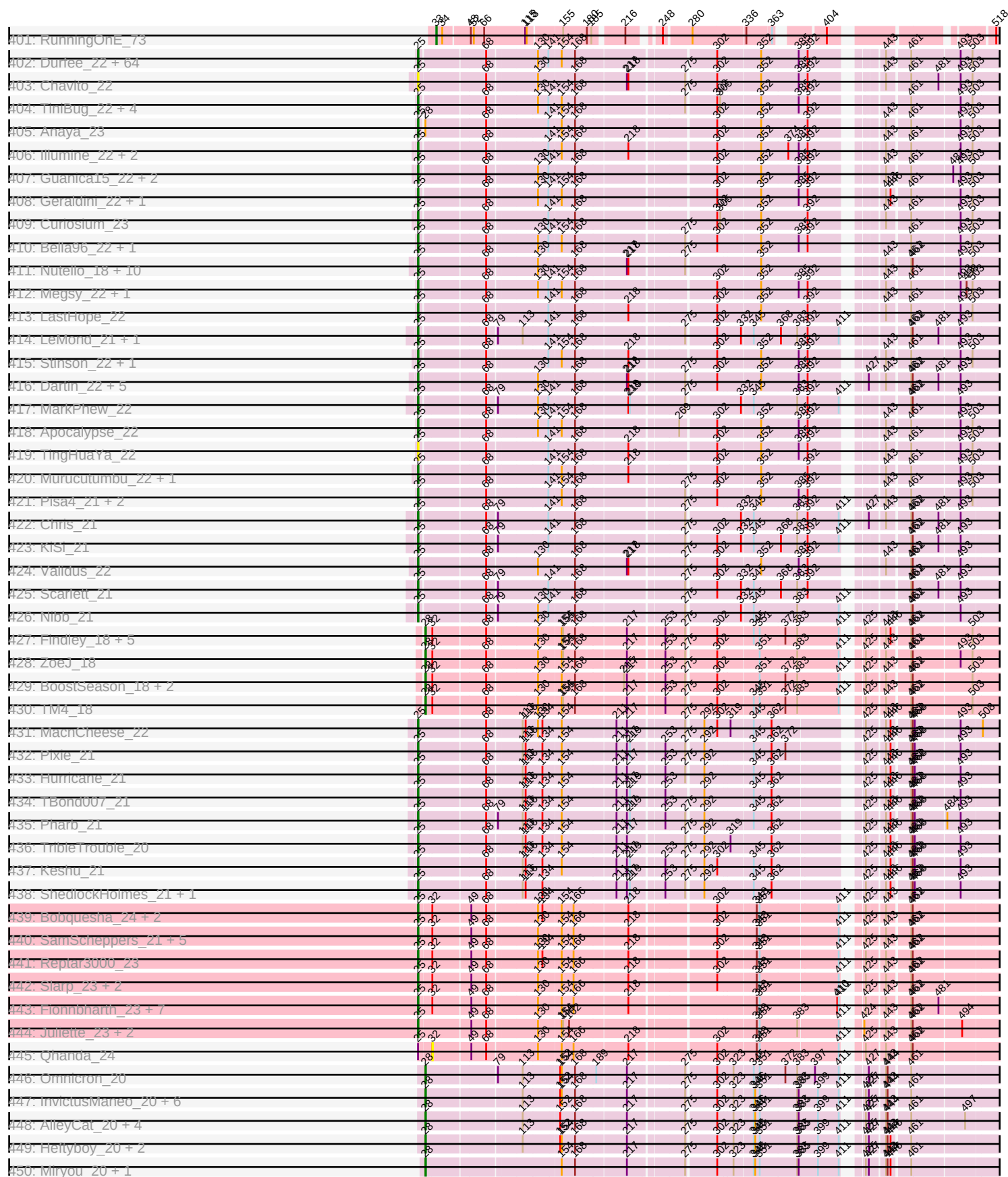
Zoomed Pham 330276



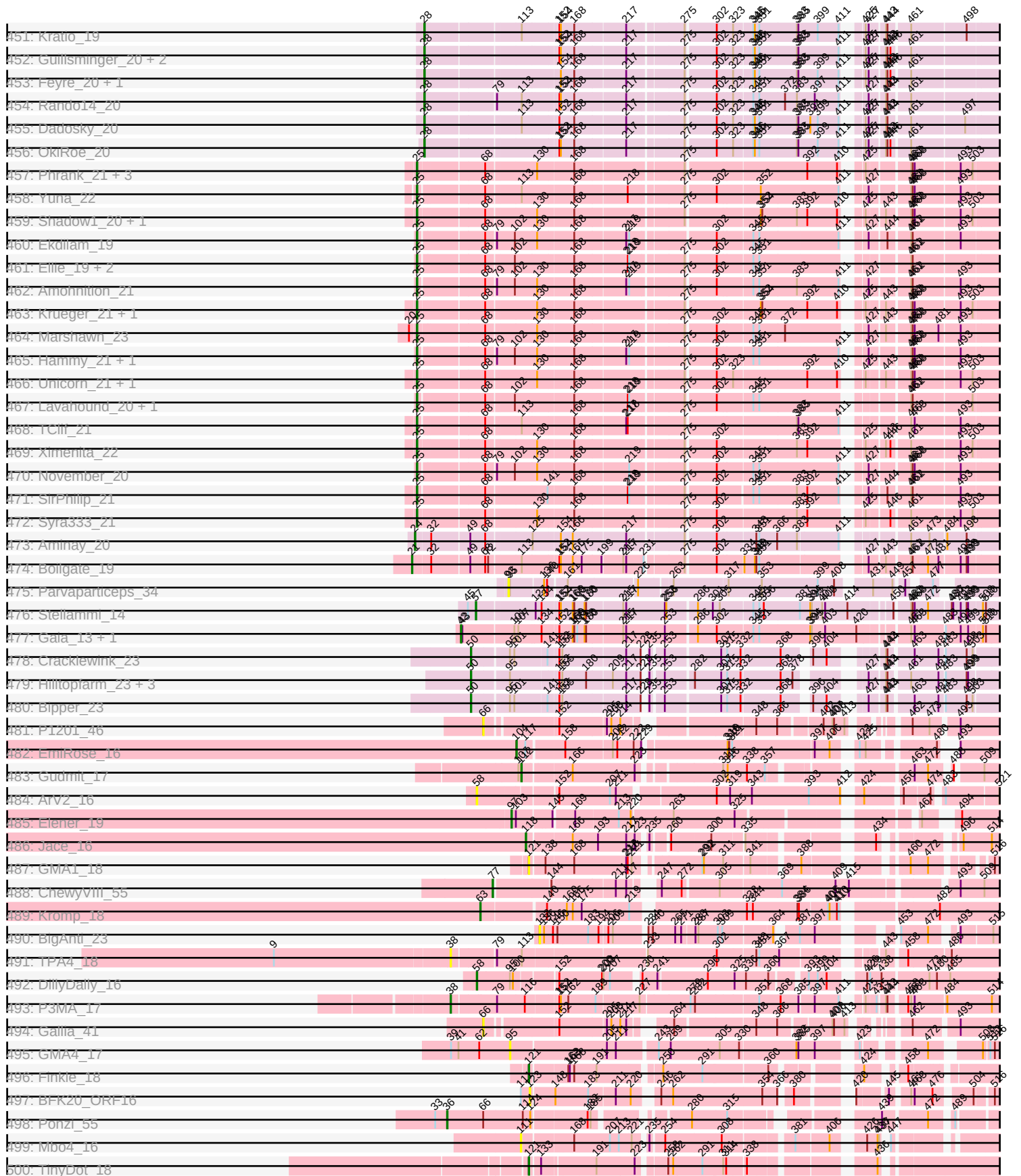
Zoomed Pham 330276



Zoomed Pham 330276



Zoomed Pham 330276



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 330276 Report

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

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

Pham number 330276 has 1014 members, 90 are drafts.

Phages represented in each track:

- Track 1 : JacoRen57_16
- Track 2 : Maco6_18, 8UZL_20
- Track 3 : FF47_20
- Track 4 : Muddy_20
- Track 5 : LongHai_21, Salvus_21
- Track 6 : NoShow_17
- Track 7 : MalagasyRose_23
- Track 8 : Nergal_21
- Track 9 : AbbyDaisy_18
- Track 10 : Raqqa_18
- Track 11 : Bovely_19, Nerdos_19, Aaronocolus_19, Unstoppable_19, Hydra_21, BeardedLady_20, SunsetPointe_19, Esperer_19, Indigo_19, Ozzie_19, Phettuccine_19, Leviticus_19, Caliburn_19, Legacy_19
- Track 12 : Goby_19, Toma_19
- Track 13 : Hippo_19, BarryBee_21, Triste_19, SarahRose_19, Dwayne_19, Whatever_19, Asten_19, Emaanora_21, Werner_19
- Track 14 : Rana_19, Nabi_19, Lorelei_19
- Track 15 : TagePhighter_20, Snorlax_19, Chucky_19
- Track 16 : Izzy_20, Eddasa_20, Rusticus_20, BryanRecycles_20, Oliynyk_20, Jash_20
- Track 17 : Godpower_20, Sujidade_20, Lika_19
- Track 18 : Celeste_19, Zemlya_20, Dattran_20
- Track 19 : Maneekul_19, TuanPN_19, Ejemplo_19, Yasdnii_19
- Track 20 : Danzina_20
- Track 21 : South40_20, Katalie_20, RedBear_21
- Track 22 : Lannister_20
- Track 23 : EnochSoames_21
- Track 24 : Nanodon_21
- Track 25 : Brataylor_20
- Track 26 : OzzyJ_20
- Track 27 : Issmi_20
- Track 28 : Hank144_20
- Track 29 : Zainub_21, Paolo_21

- Track 30 : Marav_22, Puginator_21
- Track 31 : Amethyst_19
- Track 32 : Loofah_20, Paedore_19
- Track 33 : Caelum_20
- Track 34 : Janus_20
- Track 35 : Omar_20
- Track 36 : Superstar_22
- Track 37 : Diane_19
- Track 38 : BartholomewSD_21, Alvy_21
- Track 39 : Jevington_21
- Track 40 : Bowden_20, TinaBelcher_19
- Track 41 : Nishikigoi_19, Tefunt_19, Haizum_19
- Track 42 : Animus_20, SqueakyClean_20
- Track 43 : Daudau_19
- Track 44 : ELB20_18, R4_19
- Track 45 : Axiom_20, Triumph_21
- Track 46 : Andris_19
- Track 47 : GirlDinner_19
- Track 48 : Pablito_19
- Track 49 : Thestral_20
- Track 50 : TrvxScott_18
- Track 51 : Yosif_20
- Track 52 : Speedwell_24
- Track 53 : Alsaber_20, Dexers_18, Sudan_19, Kaine_19
- Track 54 : Saftant_19
- Track 55 : Amela_19, Verse_19
- Track 56 : phiCAM_20
- Track 57 : Celery_22
- Track 58 : ElGato_20, Provolone_20
- Track 59 : ZamZam_19
- Track 60 : Vanseggelen_24
- Track 61 : Pavo_20
- Track 62 : Conan_20
- Track 63 : Verabelle_20
- Track 64 : SunkenRoot_19
- Track 65 : Jhitchelle_18
- Track 66 : phiHau3_21
- Track 67 : BroPlease_20, GreenWeasel_21
- Track 68 : VieEnRose_19
- Track 69 : Urza_19, Itza_19, Celia_19
- Track 70 : Bimmel_60, Success_62
- Track 71 : Spooks_61
- Track 72 : Kubed_15
- Track 73 : P9.1_15
- Track 74 : Ouroboros_15
- Track 75 : P14.4_15
- Track 76 : PHL114L00_15
- Track 77 : Enoki_15
- Track 78 : Wizzo_15
- Track 79 : Lauchelly_15
- Track 80 : QueenBey_15
- Track 81 : MEAK_15
- Track 82 : P100A_15

- Track 83 : P106A_15, P106I_15, P106C_15, P106L_15, P106M_15
- Track 84 : Keiki_15
- Track 85 : PHL067M10_15
- Track 86 : PHL113M01_15
- Track 87 : Cota_15
- Track 88 : PHL071N05_15
- Track 89 : ATCC29399BT_15
- Track 90 : SKKY_15
- Track 91 : P100.I_15
- Track 92 : PHL010M04_15
- Track 93 : DrParker_15
- Track 94 : Enochoraptor_15
- Track 95 : PAS50_15
- Track 96 : PA6_15
- Track 97 : Supernova_15
- Track 98 : PHL060L00_15
- Track 99 : Moyashi_15
- Track 100 : Leviosa_15
- Track 101 : P108C_15
- Track 102 : P105_15
- Track 103 : Aquarius_15
- Track 104 : PHL112N00_15
- Track 105 : LilBandit_15
- Track 106 : P107A_15
- Track 107 : P101A_15
- Track 108 : P100D_15
- Track 109 : PAD20_15
- Track 110 : P107C_15, ATCC29399BC_15
- Track 111 : P104A_15
- Track 112 : Procrass1_15
- Track 113 : PHL111M01_15
- Track 114 : Attacne_15
- Track 115 : P104B_15
- Track 116 : MrAK_15
- Track 117 : PHL037M02_15
- Track 118 : Rileysaurus_15
- Track 119 : BruceLethal_15
- Track 120 : P1.1_15
- Track 121 : Stormborn_15
- Track 122 : Solid_15
- Track 123 : Pirate_15
- Track 124 : B3_16
- Track 125 : E1_16, Anatole_16
- Track 126 : ClubL_47, Geeche_46, Aphelion_47, Bachita_49, Toniann_47, PhinkBoden_47, Cucurbita_49
- Track 127 : Dusty_46, Abscondus_46
- Track 128 : WilliamBoone_47
- Track 129 : Norvs_48, Smoothie_48, Culver_47
- Track 130 : Lozinak_47, Miskis_45, Engineer_48
- Track 131 : BrutonGaster_35
- Track 132 : OneUp_41
- Track 133 : Flapper_44
- Track 134 : Dalilpop_45

- Track 135 : GRU1_30
- Track 136 : Turuncu_44
- Track 137 : GTE5_31
- Track 138 : NosilaM_43
- Track 139 : GrootJr_42, Emianna_40, Jifall16_39, Tracker_40, Arti_40, NatB6_40, KidneyBean_40, Kurt_40, Foxboro_41, Phomeo_39, Wheezy_40, NovumRegina_40
- Track 140 : Outis_41, MerCougar_41, StarStruck_41
- Track 141 : Kabluna_43
- Track 142 : Bonum_43
- Track 143 : Commandaria_42
- Track 144 : Buggaboo_41, SuperSulley_41
- Track 145 : GTE8_29
- Track 146 : Ennea_46, Lollipop1437_45
- Track 147 : RedRaider_47
- Track 148 : Patio_43, Skysand_42, Float294_42
- Track 149 : Yndexa_42, BiPauneto_43, Sukkupi_42, Pemberton_43
- Track 150 : IDyn_41
- Track 151 : HubbaBubba_38
- Track 152 : WhoseManz_42
- Track 153 : Marietta_42
- Track 154 : NadineRae_40
- Track 155 : Pleakley_49, Fury_49
- Track 156 : Scuba_49
- Track 157 : HomeFry_46
- Track 158 : CoffeeBean_44, Maselop_44, Polyuyuki_44, Apiary_44, Braxoaddie_44
- Track 159 : Gagieri_44
- Track 160 : MacGully_49
- Track 161 : Goib_22
- Track 162 : Banquo_25, TinaLin_24
- Track 163 : Huffy_23, DinoDaryn_23, TZGordon_23
- Track 164 : Vendetta_21, Splinter_21
- Track 165 : Gspu1_19
- Track 166 : Dardanus_23
- Track 167 : Schmidt_19
- Track 168 : Catfish_21
- Track 169 : Malachai_19, Begonia_19
- Track 170 : Jalammah_20, Samba_18
- Track 171 : Delian_18, UmaThurman_18, CaptainKirk2_18, Mellie_17, Obliviate_17, Hitter_18, ZiggyZoo_17, Walrus_19
- Track 172 : Archis_19
- Track 173 : Barco_18, Melba_18, Guacamole_18
- Track 174 : Wisp_17
- Track 175 : Blino_18, CarolAnn_18
- Track 176 : JuJu_18
- Track 177 : KappaFarmDelta_18
- Track 178 : PCoral7_18, Fairfaxidum_18, William_18, PrincePatrick_18, Toast_18
- Track 179 : Pipp_18
- Track 180 : Zilla_18
- Track 181 : CheeseSpider_21
- Track 182 : JasperJr_18, MintFen_18, BlingBling_18, Utz_18
- Track 183 : Blueberry_20, MissRona_20, Azula_20, Gambino_20
- Track 184 : Fenry_17
- Track 185 : Wocket_19

- Track 186 : Frokostdame_18
- Track 187 : Petra_20
- Track 188 : Lysidious_19
- Track 189 : Murp_18
- Track 190 : PhrostedPhlake_19
- Track 191 : Soilmate_18
- Track 192 : Zarbodnamra_18
- Track 193 : SushiChef_19, Madavieve_18, Eviarto_18, BatStarr_18, BaxterFox_17, Ohgeesy_18, Yeezy_19, Nymphadora_18, PantheRoc_18, Bosnia_18, Herod_18, Hugley_18, TimTam_18
- Track 194 : Lton_16, Pepperoni_16, OneDirection_16
- Track 195 : Bunnybear_17
- Track 196 : Zirinka_18, Bialota_18, Agueybana_18
- Track 197 : Suscepit_18, Antonio_18, Kita_18, Polly_18, Zameen_18, Trumpet_18, Tayonia_18, Eudoria_18, Manasvini_18, Maridalia_17, Neobush_18, Dillpickles_19
- Track 198 : AlumE_18, BoyNamedSue_18
- Track 199 : Hyzer_18
- Track 200 : WelcomeAyanna_17, ThankyouJordi_17
- Track 201 : Madeline_18
- Track 202 : Mocha12_16, GemG_16, Cynthia_16, Sproutie_16, Haley23_16, Gizermo_16, TuertoX_16, Clap_16, Savage_16, Ebert_16, Whiteclaw_16, Yinzer_16
- Track 203 : Matteo_16
- Track 204 : Lamberg_16, Nettuno_16, EdnaMode_16
- Track 205 : Vasanti_16
- Track 206 : Sahara_16
- Track 207 : FroggyToad_16
- Track 208 : LordFarquaad_16, Attis_16, Yeet412_16, SoilAssassin_16, Bjanes7_16
- Track 209 : JCole_16, Pickett_16
- Track 210 : Jalleen_17
- Track 211 : Easley_19, Oregano_19
- Track 212 : Mcklovin_19
- Track 213 : Annalisa_19, Clark_19
- Track 214 : Howe_19, Hortense_19, Adora_19, Shlim410_19
- Track 215 : Dorito_18
- Track 216 : Beenie_19, Rizz_22, MichaelScott_19
- Track 217 : Thimann_19
- Track 218 : WinkNick_19, Samman98_19, Dolores_19
- Track 219 : Sekhmet_19
- Track 220 : Invectra_19
- Track 221 : Twinkle_19
- Track 222 : PhriskyACE_18
- Track 223 : DobbysSock_18
- Track 224 : Suerte_17
- Track 225 : Tuti_19
- Track 226 : Powerball_18
- Track 227 : Denise_16
- Track 228 : Moosehead_16
- Track 229 : Faith5x5_16
- Track 230 : Sidious_18
- Track 231 : RavenCo17_16, Eyre_16
- Track 232 : Ghobes_15
- Track 233 : Archimedes_15
- Track 234 : Frizzle_15

- Track 235 : Sapo_15
- Track 236 : Cardigan_45
- Track 237 : Yvonnestic_44, JonJames_46
- Track 238 : GodonK_88
- Track 239 : Phendrix_86
- Track 240 : Towmatter_27, Daredevil_28
- Track 241 : DatBoi_30
- Track 242 : Bantam_29
- Track 243 : Mollymur_30
- Track 244 : SpeedDemon_310
- Track 245 : Forza_100, BlueNGold_99, Mareelih_98, Boopy_100
- Track 246 : GMA2_29
- Track 247 : Sixama_98
- Track 248 : Jovita_17
- Track 249 : Swervy_17, Slay_17, CupcakePrincess_17, MsUbiquitous_17, Jabb_17, SarBear_17
- Track 250 : BAjuniper_17
- Track 251 : Squirrel_16, Olliecat_16
- Track 252 : Doobus_17
- Track 253 : BelmontSKP_18, AnnaLie_18
- Track 254 : Phisb_17, TukTuk_17, Pecas_17, Lilo27_17, Eula_17, QMacho_18, AylexOG_18, Softsoap_16, Nicky22_18
- Track 255 : Solea_19, Milomuff_18
- Track 256 : Kenzers_17, Lynlen_17
- Track 257 : Shayna_16, SunnyD_16
- Track 258 : CanFranMach_18
- Track 259 : DirtyBubble_17
- Track 260 : Armstrong_16, Coltrane_16, Bernstein_16, Rollins_16, Vitas_16, Brahms_16
- Track 261 : Clayda5_16
- Track 262 : SirBeanington_17, Albedo_17
- Track 263 : Akino08_16, Loviatar_17
- Track 264 : Grist_17, Kate33_17
- Track 265 : BubbaBear_17
- Track 266 : Rona_16, Kamdara_16, Sharkboy_16, Kieran_16, ChiliPepper_16, Dismas_16
- Track 267 : Buldak_16
- Track 268 : Johnathan_17, CroZenni_17, Bengal_17, Cashington_17, DickRichards_17, PhigPhack_18, LimaBean_17, Burritobowl_17, Arroyo_18
- Track 269 : SansAfet_17
- Track 270 : Gack_16
- Track 271 : WalkingDead_17
- Track 272 : FlameThrower_16
- Track 273 : Finalfrontier_18, BabyDaisy_18
- Track 274 : Albright_17
- Track 275 : PondAmelia_18
- Track 276 : SanaSana_18, Stoor_17
- Track 277 : Lahqtemish_17
- Track 278 : Elva_18
- Track 279 : Skylord_16
- Track 280 : Abigail_17
- Track 281 : Stromboli_17
- Track 282 : CliffHanger_17

- Track 283 : Eden_16
- Track 284 : Celaena_16
- Track 285 : Katzastrophic_16
- Track 286 : Didgeridoo_18
- Track 287 : Franklin22_17
- Track 288 : Bachaco_16
- Track 289 : Teagster_17
- Track 290 : Avocadoman_17
- Track 291 : IndyLu_17
- Track 292 : Quenya_17
- Track 293 : BabyYoda_17
- Track 294 : PastaFagioli_17
- Track 295 : Icarian_18
- Track 296 : AvGardian_17
- Track 297 : Haunter_30, Pharpay_30, CoolCookie_30, Rachella_30, Artiphact_30, AnnaSerena_30, Tiggy93_30, PhunaPhoke_30, Tedro_30
- Track 298 : WinnieLou_31, Hager_31
- Track 299 : DannyDe_29, SilentWarrior_29
- Track 300 : Rie18_30
- Track 301 : Krampus_30, Kate_30, Anakin_30, OverHedge_30, Potty_30, NarutoRun_30, SafetyGuy_30, OhDear_30, Cybele_30, Neptune_30
- Track 302 : Gilda_30
- Track 303 : Tongui_29
- Track 304 : Chivey_29, Snakehole_30, FreddieHg_29, Hiddenleaf_29
- Track 305 : LordBart_31, TinyMiny_31, RikSengupta_31
- Track 306 : Sparcetis_31
- Track 307 : JDawG_29, Crestdrop_29, JingleBells_29, MortySmith_28
- Track 308 : Poultriss_29
- Track 309 : Aesir_29
- Track 310 : Erudite_29, Dauntless_29
- Track 311 : Annapurna_29
- Track 312 : Karate_29
- Track 313 : Kors_31, Bramble_31
- Track 314 : FountainFog_29
- Track 315 : Ajin_31
- Track 316 : Honk_15
- Track 317 : Barnstormer_15, UtzChips_15
- Track 318 : SuMoo_15
- Track 319 : GardenState_16, IAmGroot_16
- Track 320 : Gretchen_16, SuperHands_16, Forester_16, Percival_16
- Track 321 : Floof_16
- Track 322 : Cen1621_15
- Track 323 : Caron_15
- Track 324 : Mabodamaca_16
- Track 325 : Sucha_17
- Track 326 : Johann_21, Olympi_22, Goodman_21
- Track 327 : Linayshia_20
- Track 328 : Cicada_22
- Track 329 : Htur_20, Rasovi_20
- Track 330 : Benry_20
- Track 331 : Milani_21
- Track 332 : Alove_20, TurboVicky_20, Labella_22, Typher_22, SBlackberry_20, Jera_21, Rootkit7_20

- Track 333 : FireCastle_20
- Track 334 : AyoTeo_22
- Track 335 : IndiRoo_20
- Track 336 : PermaG_21
- Track 337 : Zanella_20
- Track 338 : PeteyPab_32, Darwin_33, Zion_33, PotatoChip_33
- Track 339 : Cruella_30, C3PO_30
- Track 340 : Kimchi1738_30
- Track 341 : Stickynote_32
- Track 342 : RootBeer_16
- Track 343 : BrayBeast_17
- Track 344 : Alatato_16
- Track 345 : JeanClaude_17
- Track 346 : Kumotta_18, MargaretKali_18
- Track 347 : Sarge_17
- Track 348 : Pigu_16
- Track 349 : Rooter_16
- Track 350 : Shoya_16
- Track 351 : BellaJr_20
- Track 352 : Zucker_19, Bauer_20
- Track 353 : BlackSpider_18
- Track 354 : Cassini_18
- Track 355 : CocoCinnamon_21
- Track 356 : Maja_17
- Track 357 : MrSmee_17
- Track 358 : Skitty_17
- Track 359 : Pitbull_17
- Track 360 : Hum25_18
- Track 361 : Skyerus_17, Raya_17
- Track 362 : Neroxid_17
- Track 363 : Khuang_15
- Track 364 : Altostratus_15
- Track 365 : ForeverHowLong_17, DingDing_17, Jolene_17, Rattrick_17, CassieYates_17, Angel_17, OctaviousRex_17, ECartman_17, Periodt_17, Phloodle_17, Avrafan_17, CLED96_17, Schiebel_17, Hope_17, Hotshotbaby7_17, Cedasite_17, Renaissance_17, AzulaCat_17, BPs_17, Jeilious_17, ZoMa_17, Marmie_17, LouisV14_17, BQuat_17, Coleslaw_17, DMoney_17, DNAll_0017, Gideon_17, Neoh_17, Aroostook_17, Annihilator_17, Chance64_17, BruceB_17, Primanti_17, Crespo_17, Darionha_17, Frosty24_17, Gomashi_17, Ruriko_17, AizenPogi_17, Richarlison_17, Remy19_17, Kasen3_17, Halo_17, Mowgli_17, Sweets_17, Kareem_17, Cherrybomb426_17, Phreak_17, Olga_17, Maliketh_17, Zombie_17, MZKinsey_17, Camri_17, JorRay_17, ShaboiShabazz_17, PinkYoshi_17, Jane_17, Wendigo_17, Jonghyun_17, TomBrady_17, Sizemore_17, Phish_17, TinaBug_17, GoldenAsh_17
- Track 366 : Taheera_17, Rabbs_17, Terror_17, Sneeze_17
- Track 367 : Barkley26_17
- Track 368 : Plagueis_17
- Track 369 : Liefie_17
- Track 370 : Grizzly_17
- Track 371 : Paito_17
- Track 372 : Peeb_17
- Track 373 : Pace1224_17
- Track 374 : Avocado_17, Cambiare_18

- Track 375 : FlagStaff_17
- Track 376 : GodSpeed_17
- Track 377 : MOOREtheMARYer_17
- Track 378 : Pinnie_18
- Track 379 : Cloudyecho_17
- Track 380 : Jolie2_17
- Track 381 : Lemuria_17
- Track 382 : Mercurio_18
- Track 383 : Antsirabe_17
- Track 384 : YangYin_17
- Track 385 : Stargaze_17
- Track 386 : Blett_23
- Track 387 : Carrillo_24, Appa_22, MenE_23, Dropshot_22, Losacky_24, NCRodriguez_24, Guzman_24, Bush_23, CookieDog_23, Antuna_23, Violeta_24
- Track 388 : Warren_23
- Track 389 : Jakelyne_24, Phingu_25
- Track 390 : PhillyJawn_23, Winchester007_24
- Track 391 : Pickles13_22
- Track 392 : Mariel_24
- Track 393 : ScoobySnack_21
- Track 394 : Phonegingi_22
- Track 395 : Teng_23
- Track 396 : DelaGarza_21, Sweetums_23
- Track 397 : Gingerbug_19
- Track 398 : Lesiram_22
- Track 399 : Wrackline_27
- Track 400 : Ibantik_80
- Track 401 : RunningOnE_73
- Track 402 : Durfee_22, Joy99_22, Adonis_22, Zavala_22, HedwigODU_22, Dalmuri_22, Inky_22, BGlluviae_22, Capricorn_22, Jeckyll_22, CallaLilly_22, Prithvi_22, Ramen_22, Ganymede_23, Rapunzel97_22, Pokerus_21, Boiiii_22, Hyperbowlee_22, Belladonna_22, CheetoDust_22, Peel_22, Angelica_22, Jayhawk_22, Mynx_22, Asayake_22, AlishaPH_22, MacKat_22, Twitch_22, Emerson_22, CaseJules_22, BarrelRoll_22, Deby_22, Llorens_22, Piatt_22, Blizzard_22, BaghaKamala_22, JAWS_22, Rosmarinus_22, BEEEST_22, Beezoo_22, Atiba_22, Sulley_22, YoureAdopted_21, Tiri_22, Jarvi_22, Spock_22, QuincyRose_21, TruffulaTree_22, Slimphazie_22, Adephagia_22, Tachez_22, TreyKay_22, Veliki_22, Topper_22, CREW_22, LindNT_22, Padpat_22, ActinUp_22, Homura_22, Clipper_22, Padfoot_22, CrimD_22, ShiaSurprise_22, Zabiza_22, Lunahalos_22
- Track 403 : Chavito_22
- Track 404 : TiniBug_22, Anma_22, Urkel_22, DrHayes_22, SamuelLPlaqson_22
- Track 405 : Anaya_23
- Track 406 : Illumine_22, Devera_22, Dole_22
- Track 407 : Guanica15_22, Efra2_22, Yunkel11_22
- Track 408 : Geraldini_22, MeaningOfLife_22
- Track 409 : Curiosium_23
- Track 410 : Bella96_22, DartGoblin_22
- Track 411 : Nutello_18, Teejan_18, SgtBeansprout_18, Mdavu_18, Trice_18, Enkosi_18, Amelie_18, Binglebops_18, Torres_18, Nikao_18, LilPharaoh_18
- Track 412 : Megsy_22, TaiwanKao_23
- Track 413 : LastHope_22
- Track 414 : LeMond_21, Oscar_21

- Track 415 : Stinson_22, Ageofdapage_22
- Track 416 : Dartin_22, McMatr_22, Peanam_22, Richo_22, Shaobing_22, Niklas_22
- Track 417 : MarkPhew_22
- Track 418 : Apocalypse_22
- Track 419 : TingHuaYa_22
- Track 420 : Murucutumbu_22, LaterM_22
- Track 421 : Pisa4_21, Bern_22, Pisa1_21
- Track 422 : Chris_21
- Track 423 : KiSi_21
- Track 424 : Validus_22
- Track 425 : Scarlett_21
- Track 426 : Nibb_21
- Track 427 : Findley_18, Strobilo_18, DismalStressor_18, DismalFunk_18, Milly_18, Marcoliusprime_18
- Track 428 : ZoeJ_18
- Track 429 : BoostSeason_18, Doughnut_18, Mufasa_18
- Track 430 : TM4_18
- Track 431 : MacnCheese_22
- Track 432 : Pixie_21
- Track 433 : Hurricane_21
- Track 434 : TBond007_21
- Track 435 : Pharb_21
- Track 436 : TribbleTrouble_20
- Track 437 : Keshu_21
- Track 438 : ShedlockHolmes_21, Lea83_21
- Track 439 : Bobquesha_24, MissDaisy_23, Patt_23
- Track 440 : SamScheppers_21, DanSyl44_24, OmniCritical_23, Lebo14_23, Taquito_21, Mitti_23
- Track 441 : Reptar3000_23
- Track 442 : Slarp_23, Cheetobro_23, Chancellor_23
- Track 443 : Fionnbharth_23, Kraw_23, Y10_23, JF1_23, YasnayaPolyana_23, Wintermute_23, Y2_23, Malthus_24
- Track 444 : Juliette_23, Ruthiejr_22, Eponine_23
- Track 445 : Qhanda_24
- Track 446 : Omnicron_20
- Track 447 : InvictusManeo_20, ViviJ_19, Agent47_20, LilDirt_19, Collard_20, DoubleChamp_20, BananenDer11_20
- Track 448 : AlleyCat_20, Edugator_19, Neighly_20, Psycho_20, Larva_20
- Track 449 : Heftyboy_20, SoSeph_20, Gengar_20
- Track 450 : Miryou_20, Thyatira_20
- Track 451 : Kratio_19
- Track 452 : Guillsminger_20, Leston_20, Paola_20
- Track 453 : Feyre_20, Waterfoul_20
- Track 454 : Rando14_20
- Track 455 : Dadosky_20
- Track 456 : OkiRoe_20
- Track 457 : Phrank_21, Bryler_21, Cain_21, Tierra_21
- Track 458 : Yuna_22
- Track 459 : Shadow1_20, Sunflower1121_20
- Track 460 : Ekdilam_19
- Track 461 : Ellie_19, Applecrisp_20, Fefferhead_21
- Track 462 : Amohnition_21

- Track 463 : Krueger_21, Tigress9_21
- Track 464 : Marshawn_23
- Track 465 : Hammy_21, DarthP_21
- Track 466 : Unicorn_21, PhelpsODU_21
- Track 467 : Lavahound_20, Amgine_20
- Track 468 : TClif_21
- Track 469 : Ximenita_22
- Track 470 : November_20
- Track 471 : SirPhilip_21
- Track 472 : Syra333_21
- Track 473 : Aminay_20
- Track 474 : Boilgate_19
- Track 475 : Parvaparticeps_34
- Track 476 : Stellammi_14
- Track 477 : Gaia_13, Nebkiss_14
- Track 478 : Cracklewink_23
- Track 479 : Hilltopfarm_23, AuntGwenStacy_23, Faiyaz_23, Typha_23
- Track 480 : Bipper_23
- Track 481 : P1201_46
- Track 482 : EmiRose_16
- Track 483 : Gudmit_17
- Track 484 : ArV2_16
- Track 485 : Elener_19
- Track 486 : Jace_16
- Track 487 : GMA1_18
- Track 488 : ChewyVIII_55
- Track 489 : Kromp_18
- Track 490 : BigAnti_23
- Track 491 : TPA4_18
- Track 492 : DillyDally_16
- Track 493 : P3MA_17
- Track 494 : Gallia_41
- Track 495 : GMA4_17
- Track 496 : Finkle_18
- Track 497 : BFK20_ORF16
- Track 498 : Ponzi_55
- Track 499 : Mbo4_16
- Track 500 : TinyDot_18

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

The start number called the most often in the published annotations is 25, it was called in 250 of the 924 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ActinUp_22, Adephagia_22, Adonis_22, Ageofdapage_22, AizenPogi_17, AlishaPH_22, Amelie_18, Amgine_20, Amohnition_21, Anaya_23, Angel_17, Angelica_22, Anma_22, Annihilator_17, Antsirabe_17, Apocalypse_22, Applecrisp_20, Aroostook_17, Asayake_22, Atiba_22, Avrafan_17, AzulaCat_17, BEEST_22, BGlluviae_22, BPs_17, BQuat_17, BaghaKamala_22, Barkley26_17,

BarrelRoll_22, Beezoo_22, Bella96_22, Belladonna_22, Bern_22, Binglebops_18,
 Blizzard_22, Bobquesha_24, Boiiii_22, BruceB_17, Bryler_21, CLED96_17,
 CREW_22, Cain_21, CallaLilly_22, Camri_17, Capricorn_22, CaseJules_22,
 CassieYates_17, Cedasite_17, Chance64_17, Chancellor_23, Chavito_22,
 CheetoDust_22, Cheetobro_23, Cherrybomb426_17, Chris_21, Clipper_22,
 Cloudyecho_17, Coleslaw_17, Crespo_17, CrimD_22, Curiosium_23, DMoney_17,
 DNAIII_0017, Dalmuri_22, DanSyl44_24, Darionha_17, DartGoblin_22, DarthP_21,
 Dartin_22, Deby_22, Devera_22, DingDing_17, Dole_22, DrHayes_22, Durfee_22,
 ECartman_17, Efra2_22, Ekdilam_19, Ellie_19, Emerson_22, Enkosi_18,
 Eponine_23, Fefferhead_21, Fionnbharth_23, ForeverHowLong_17, Frosty24_17,
 Ganymede_23, Geraldini_22, Gideon_17, GoldenAsh_17, Gomashi_17, Grizzly_17,
 Guanica15_22, Halo_17, Hammy_21, HedwigODU_22, Homura_22, Hope_17,
 Hotshotbaby7_17, Hurricane_21, Hyperbowlee_22, Illumine_22, Inky_22, JAWS_22,
 JF1_23, Jane_17, Jarvi_22, Jayhawk_22, Jeckyll_22, Jeilious_17, Jolene_17,
 Jolie2_17, Jonghyun_17, JorRay_17, Joy99_22, Juliette_23, Kareem_17,
 Kasen3_17, Keshu_21, KiSi_21, Kraw_23, Krueger_21, LastHope_22, LaterM_22,
 Lavahound_20, LeMond_21, Lea83_21, Lebo14_23, Lemuria_17, Liefie_17,
 LilPharaoh_18, LindNT_22, Llorens_22, LouisV14_17, Lunahalos_22,
 MOOREtheMARYer_17, MZKinsey_17, MacKat_22, MacnCheese_22, Maliketh_17,
 Malthus_24, MarkPhew_22, Marmie_17, Marshawn_23, McMater_22, Mdavu_18,
 MeaningOfLife_22, Megsy_22, Mercurio_18, MissDaisy_23, Mitti_23, Mowgli_17,
 Murucutumbu_22, Mynx_22, Neoh_17, Nibb_21, Nikao_18, Niklas_22,
 November_20, Nutello_18, OctaviousRex_17, Olga_17, OmniCritical_23, Oscar_21,
 Padfoot_22, Padpat_22, Paito_17, Patt_23, Peanam_22, Peeb_17, Peel_22,
 Periodt_17, Pharb_21, PhelpsODU_21, Phish_17, Phloodle_17, Phrank_21,
 Phreak_17, Piatt_22, PinkYoshi_17, Pinnie_18, Pisa1_21, Pisa4_21, Pixie_21,
 Plagueis_17, Pokerus_21, Primanti_17, Prithvi_22, QuincyRose_21, Rabbs_17,
 Ramen_22, Rapunzel97_22, Ratrick_17, Remy19_17, Renaissance_17,
 Reptar3000_23, Richarlison_17, Richo_22, Rosmarinus_22, Ruriko_17, Ruthiejr_22,
 SamScheppers_21, SamuelLPlaqson_22, Scarlett_21, Schiebel_17,
 SgtBeansprout_18, ShaboiShabazz_17, Shadow1_20, Shaobing_22,
 ShedlockHolmes_21, ShiaSurprise_22, SirPhilip_21, Sizemore_17, Slarp_23,
 Slimphazie_22, Sneeze_17, Spock_22, Stargaze_17, Stinson_22, Sulley_22,
 Sunflower1121_20, Sweets_17, Syra333_21, TBond007_21, TClif_21, Tachez_22,
 Taheera_17, TaiwanKao_23, Taquito_21, Teejan_18, Terror_17, Tierra_21,
 Tigress9_21, TinaBug_17, TingHuaYa_22, TiniBug_22, Tiri_22, TomBrady_17,
 Topper_22, Torres_18, TreyKay_22, TribbleTrouble_20, Trice_18, TruffulaTree_22,
 Twitch_22, Unicorn_21, Urkel_22, Validus_22, Veliki_22, Wendigo_17,
 Wintermute_23, Ximenita_22, Y10_23, Y2_23, YangYin_17, YasnayaPolyana_23,
 YoureAdopted_21, Yuna_22, Yunkel11_22, Zabiza_22, Zavala_22, ZoMa_17,
 Zombie_17,

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

- FlagStaff_17, GodSpeed_17, Pace1224_17, Qhanda_24,

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

- 8UZL_20, ATCC29399BC_15, ATCC29399BT_15, Aaronocolus_19, AbbyDaisy_18,
 Abigail_17, Abscondus_46, Adora_19, Aesir_29, Agent47_20, Agueybana_18,
 Ajin_31, Akino08_16, Alataato_16, Albedo_17, Albright_17, AlleyCat_20, Alove_20,
 Alsaber_20, Altostratus_15, AlumE_18, Alvy_21, Amela_19, Amethyst_19,
 Aminay_20, Anakin_30, Anatole_16, Andris_19, Animus_20, AnnaLie_18,
 AnnaSerena_30, Annalisa_19, Annapurna_29, Antonio_18, Antuna_23, Aphelion_47,
 Apiary_44, Appa_22, Aquarius_15, ArV2_16, Archimedes_15, Archis_19,

Armstrong_16, Arroyo_18, Arti_40, Artiphact_30, Asten_19, Attacne_15, Attis_16, AuntGwenStacy_23, AvGardian_17, Avocado_17, Avocadoman_17, Axiom_20, AylexOG_18, AyoTeo_22, Azula_20, B3_16, BAjuniper_17, BFK20_ORF16, BabyDaisy_18, BabyYoda_17, Bachaco_16, Bachita_49, BananenDer11_20, Banquo_25, Bantam_29, Barco_18, Barnstormer_15, BarryBee_21, BartholomewSD_21, BatStarr_18, Bauer_20, BaxterFox_17, BeardedLady_20, Beenie_19, Begonia_19, BellaJr_20, BelmontSKP_18, Bengal_17, Benry_20, Bernstein_16, BiPauneto_43, Bialota_18, BigAnti_23, Bimmel_60, Bipper_23, Bjaner7_16, BlackSpider_18, Blett_23, BlingBling_18, Blino_18, BlueNGold_99, Blueberry_20, Boilgate_19, Bonum_43, Boopy_100, BoostSeason_18, Bosnia_18, Bovely_19, Bowden_20, BoyNamedSue_18, Brahms_16, Bramble_31, Brataylor_20, Braxoaddie_44, BrayBeast_17, BroPlease_20, BruceLethal_15, BrutonGaster_35, BryanRecycles_20, BubbaBear_17, Buggaboo_41, Buldak_16, Bunnybear_17, Burritobowl_17, Bush_23, C3PO_30, Caelum_20, Caliburn_19, Cambiare_18, CanFranMach_18, CaptainKirk2_18, Cardigan_45, CarolAnn_18, Caron_15, Carrillo_24, Cashington_17, Cassini_18, Catfish_21, Celaena_16, Celery_22, Celeste_19, Celia_19, Cen1621_15, CheeseSpider_21, ChewyVIII_55, ChiliPepper_16, Chivey_29, Chucky_19, Cicada_22, Clap_16, Clark_19, Clayda5_16, CliffHanger_17, ClubL_47, CocoCinnamon_21, CoffeeBean_44, Collard_20, Coltrane_16, Commandaria_42, Conan_20, CookieDog_23, CoolCookie_30, Cota_15, Cracklewink_23, Crestdrop_29, CroZenni_17, Cruella_30, Cucurbita_49, Culver_47, CupcakePrincess_17, Cybele_30, Cynthia_16, Dadosky_20, Dalilpop_45, DannyDe_29, Danzina_20, Dardanus_23, Daredevil_28, Darwin_33, DatBoi_30, Dattran_20, Daudau_19, Dauntless_29, DelaGarza_21, Delian_18, Denise_16, Dexers_18, Diane_19, DickRichards_17, Didgeridoo_18, Dillpickles_19, DillyDally_16, DinoDaryn_23, DirtyBubble_17, DismalFunk_18, DismalStressor_18, Dismas_16, DobbysSock_18, Dolores_19, Doobus_17, Dorito_18, DoubleChamp_20, Doughnut_18, DrParker_15, Dropshot_22, Dusty_46, Dwayne_19, E1_16, ELB20_18, Easley_19, Ebert_16, Eddasa_20, Eden_16, EdnaMode_16, Edugator_19, Ejemplo_19, ElGato_20, Elener_19, Elva_18, Emaanora_21, EmiRose_16, Emianna_40, Engineer_48, Ennea_46, EnochSoames_21, Enochoraptor_15, Enoki_15, Erudite_29, Esperer_19, Eudoria_18, Eula_17, Eviarto_18, Eyre_16, FF47_20, Fairfaxidum_18, Faith5x5_16, Faiyaz_23, Fenry_17, Feyre_20, Finalfrontier_18, Findley_18, Finkle_18, FireCastle_20, FlameThrower_16, Flapper_44, Float294_42, Floof_16, Forester_16, Forza_100, FountainFog_29, Foxboro_41, Franklin22_17, FreddieHg_29, Frizzle_15, FroggyToad_16, Frokostdame_18, Fury_49, GMA1_18, GMA2_29, GMA4_17, GRU1_30, GTE5_31, GTE8_29, Gack_16, Gagieri_44, Gaia_13, Gallia_41, Gambino_20, GardenState_16, Geeche_46, GemG_16, Gengar_20, Ghobes_15, Gilda_30, Gingerbug_19, GirlDinner_19, Gizermo_16, Goby_19, GodonK_88, Godpower_20, Goib_22, Goodman_21, GreenWeasel_21, Gretchen_16, Grist_17, GrootJr_42, Gspu1_19, Guacamole_18, Gudmit_17, Guillsminger_20, Guzman_24, Hager_31, Haizum_19, Haley23_16, Hank144_20, Haunter_30, Heftyboy_20, Herod_18, Hiddenleaf_29, Hilltopfarm_23, Hippo_19, Hitter_18, HomeFry_46, Honk_15, Hortense_19, Howe_19, Htur_20, HubbaBubba_38, Huffy_23, Hugley_18, Hum25_18, Hydra_21, Hyzer_18, IAmGroot_16, IDyn_41, Ibantik_80, Icarian_18, IndiRoo_20, Indigo_19, IndyLu_17, Invectra_19, InvictusManeo_20, Issmi_20, Itza_19, Izzy_20, JCole_16, JDawG_29, Jabb_17, Jace_16, JacoRen57_16, Jakelyne_24, Jalammah_20, Jalleen_17, Janus_20, Jash_20, JasperJr_18, JeanClaude_17, Jera_21, Jevington_21, Jhitchelle_18, Jifall16_39, JingleBells_29, Johann_21, Johnathan_17, JonJames_46, Jovita_17, JuJu_18, Kabluna_43, Kaine_19, Kamdara_16, KappaFarmDelta_18, Karate_29, Katalie_20, Kate33_17, Kate_30, Katzastrophic_16, Keiki_15, Kenzers_17, Khuang_15, KidneyBean_40, Kieran_16, Kimchi1738_30,

Kita_18, Kors_31, Krampus_30, Kratio_19, Kromp_18, Kubed_15, Kumotta_18, Kurt_40, Labella_22, Lahqtemish_17, Lamberg_16, Lannister_20, Larva_20, Lauchelly_15, Legacy_19, Lesiram_22, Leston_20, Leviosa_15, Leviticus_19, Lika_19, LilBandit_15, LilDirt_19, Lilo27_17, LimaBean_17, Linayshia_20, Lollipop1437_45, LongHai_21, Loofah_20, LordBart_31, LordFarquaad_16, Lorelei_19, Losacky_24, Loviatar_17, Lozinak_47, Lton_16, Lynlen_17, Lysidious_19, MEAK_15, Mabodamaca_16, MacGully_49, Maco6_18, Madavieve_18, Madeline_18, Maja_17, Malachai_19, MalagasyRose_23, Manasvini_18, Maneekul_19, Marav_22, Marcoliusprime_18, Mareelih_98, MargaretKali_18, Maridalia_17, Mariel_24, Marietta_42, Maselop_44, Matteo_16, Mbo4_16, Mcklovin_19, Melba_18, Mellie_17, MenE_23, MerCougar_41, MichaelScott_19, Milani_21, Milly_18, Milomuff_18, MintFen_18, Miryou_20, Miskis_45, MissRona_20, Mocha12_16, Mollymur_30, Moosehead_16, MortySmith_28, Moyashi_15, MrAK_15, MrSme_17, MsUbiquitous_17, Muddy_20, Mufasa_18, Murp_18, NCRodriguez_24, Nabi_19, NadineRae_40, Nanodon_21, NarutoRun_30, NatB6_40, Nebkiss_14, Neighly_20, Neobush_18, Neptune_30, Nerdos_19, Nergal_21, Neroxid_17, Nettuno_16, Nicky22_18, Nishikigoi_19, NoShow_17, Norvs_48, NosilaM_43, NovumRegina_40, Nymphadora_18, Obliviate_17, OhDear_30, Ohgeesy_18, OkiRoe_20, Oliynyk_20, Olliecat_16, Olympi_22, Omar_20, Omnicron_20, OneDirection_16, OneUp_41, Oregano_19, Ouroboros_15, Outis_41, OverHedge_30, Ozzie_19, OzzyJ_20, P1.1_15, P100.1_15, P100A_15, P100D_15, P101A_15, P104A_15, P104B_15, P105_15, P106A_15, P106C_15, P106I_15, P106L_15, P106M_15, P107A_15, P107C_15, P108C_15, P1201_46, P14.4_15, P3MA_17, P9.1_15, PA6_15, PAD20_15, PAS50_15, PCoral7_18, PHL010M04_15, PHL037M02_15, PHL060L00_15, PHL067M10_15, PHL071N05_15, PHL111M01_15, PHL112N00_15, PHL113M01_15, PHL114L00_15, Pablito_19, Paedore_19, PantheRoc_18, Paola_20, Paolo_21, Parvaparticeps_34, PastaFagioli_17, Patio_43, Pavo_20, Pecas_17, Pemberton_43, Pepperoni_16, Percival_16, PermaG_21, PeteyPab_32, Petra_20, Pharpay_30, Phendrix_86, Phettuccine_19, PhigPhack_18, PhillyJawn_23, Phingu_25, PhinkBoden_47, Phisb_17, Phomeo_39, Phonegingi_22, PhriskyACE_18, PhrostedPhlake_19, PhunaPhoke_30, Pickett_16, Pickles13_22, Pigu_16, Pipp_18, Pirate_15, Pitbull_17, Pleakley_49, Polly_18, Polyyuki_44, PondAmelia_18, Ponzi_55, PotatoChip_33, Potty_30, Poultress_29, Powerball_18, PrincePatrick_18, Procrass1_15, Provolone_20, Psycho_20, Puginator_21, QMacho_18, QueenBey_15, Quenya_17, R4_19, Rachella_30, Rana_19, Rando14_20, Raqqa_18, Rasovi_20, RavenCo17_16, Raya_17, RedBear_21, RedRaider_47, Rie18_30, RikSengupta_31, Rileysaurus_15, Rizz_22, Rollins_16, Rona_16, RootBeer_16, Rooter_16, Rootkit7_20, RunningOnE_73, Rusticus_20, SBlackberry_20, SKKY_15, SafetyGuy_30, Saftant_19, Sahara_16, Salvus_21, Samba_18, Samman98_19, SanaSana_18, SansAfet_17, Sapo_15, SarBear_17, SarahRose_19, Sarge_17, Savage_16, Schmidt_19, ScoobySnack_21, Scuba_49, Sekhmet_19, Sharkboy_16, Shayna_16, Shlim410_19, Shoya_16, Sidious_18, SilentWarrior_29, SirBeanington_17, Sixama_98, Skitty_17, Skyerus_17, Skylord_16, Skysand_42, Slay_17, Smoothie_48, Snakehole_30, Snorlax_19, SoSeph_20, Softsoap_16, SoilAssassin_16, Soilmate_18, Solea_19, Solid_15, South40_20, Sparcetis_31, SpeedDemon_310, Speedwell_24, Splinter_21, Spooks_61, Sproutie_16, SqueakyClean_20, Squircle_16, StarStruck_41, Stellammi_14, Stickynote_32, Stoor_17, Stormborn_15, Strobilo_18, Stromboli_17, SuMoo_15, Success_62, Sucha_17, Sudan_19, Suerte_17, Sujidade_20, Sukkupi_42, SunkenRoot_19, SunnyD_16, SunsetPointe_19, SuperHands_16, SuperSulley_41, Supernova_15, Superstar_22, Suscepit_18, SushiChef_19, Sweetums_23, Swervy_17, TM4_18, TPA4_18, TZGordon_23, TagePhigher_20, Tayonia_18, Teagster_17, Tedro_30, Tefunt_19, Teng_23, ThankyouJordi_17, Thestral_20,

Thimann_19, Thyatira_20, Tiggy93_30, TimTam_18, TinaBelcher_19, TinaLin_24, TinyDot_18, TinyMiny_31, Toast_18, Toma_19, Tongui_29, Toniann_47, Towmatter_27, Tracker_40, Triste_19, Triumph_21, Trumpet_18, TrvxScott_18, TuanPN_19, TuertoX_16, TukTuk_17, TurboVicky_20, Turuncu_44, Tuti_19, Twinkle_19, Typha_23, Typher_22, UmaThurman_18, Unstoppable_19, Urza_19, UtzChips_15, Utz_18, Vanseggelen_24, Vasanti_16, Vendetta_21, Verabelle_20, Verse_19, VieEnRose_19, Violeta_24, Vitas_16, ViviJ_19, WalkingDead_17, Walrus_19, Warren_23, Waterfoul_20, WelcomeAyanna_17, Werner_19, Whatever_19, Wheezy_40, Whiteclaw_16, WhoseManz_42, WilliamBoone_47, William_18, Winchester007_24, WinkNick_19, WinnieLou_31, Wisp_17, Wizzo_15, Wocket_19, Wrackline_27, Yasdnil_19, Yeet412_16, Yeezy_19, Yinzer_16, Yndexa_42, Yosif_20, Yvonnestic_44, Zainub_21, ZamZam_19, Zameen_18, Zanella_20, Zarbodnamra_18, Zemlya_20, ZiggyZoo_17, Zilla_18, Zion_33, Zirinka_18, ZoeJ_18, Zucker_19, phiCAM_20, phiHau3_21,

Summary by start number:

Start 17:

- Found in 4 of 1014 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 924
- Called 75.0% of time when present
- Phage (with cluster) where this start called: FlagStaff_17 (G2), GodSpeed_17 (G2), Pace1224_17 (G2),

Start 21:

- Found in 1 of 1014 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Boilgate_19 (K8),

Start 24:

- Found in 5 of 1014 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Aminay_20 (K7),

Start 25:

- Found in 267 of 1014 (26.3%) of genes in pham
- Manual Annotations of this start: 250 of 924
- Called 98.5% of time when present
- Phage (with cluster) where this start called: ActinUp_22 (K1), Adephagia_22 (K1), Adonis_22 (K1), Ageofdapage_22 (K1), AizenPogi_17 (G1), AlishaPH_22 (K1), Amelie_18 (K1), Amgine_20 (K6), Amohnition_21 (K6), Anaya_23 (K1), Angel_17 (G1), Angelica_22 (K1), Anma_22 (K1), Annihilator_17 (G1), Antsirabe_17 (G5), Apocalypse_22 (K1), Applecrisp_20 (K6), Aroostook_17 (G1), Asayake_22 (K1), Atiba_22 (K1), Avrafan_17 (G1), AzulaCat_17 (G1), BEEST_22 (K1), BGlluviae_22 (K1), BPs_17 (G1), BQuat_17 (G1), BaghaKamala_22 (K1), Barkley26_17 (G1), BarrelRoll_22 (K1), Beezoo_22 (K1), Bella96_22 (K1), Belladonna_22 (K1), Bern_22 (K1), Binglebops_18 (K1), Blizzard_22 (K1), Bobquesha_24 (K4), Boiii_22 (K1), BruceB_17 (G1), Bryler_21 (K6), CLED96_17 (G1), CREW_22 (K1), Cain_21 (K6), CallaLilly_22 (K1), Camri_17 (G1), Capricorn_22 (K1), CaseJules_22 (K1), CassieYates_17 (G1), Cedasite_17 (G1), Chance64_17 (G1), Chancellor_23 (K4), Chavito_22 (K1), CheetoDust_22 (K1), Cheetobro_23 (K4), Cherrybomb426_17 (G1),

Chris_21 (K1), Clipper_22 (K1), Cloudyecho_17 (G3), Coleslaw_17 (G1), Crespo_17 (G1), CrimD_22 (K1), Curiosium_23 (K1), DMoney_17 (G1), DNAll_0017 (G1), Dalmuri_22 (K1), DanSyl44_24 (K4), Darionha_17 (G1), DartGoblin_22 (K1), DarthP_21 (K6), Dartin_22 (K1), Deby_22 (K1), Devera_22 (K1), DingDing_17 (G1), Dole_22 (K1), DrHayes_22 (K1), Durfee_22 (K1), ECartman_17 (G1), Efra2_22 (K1), Ekdilam_19 (K6), Ellie_19 (K6), Emerson_22 (K1), Enkosi_18 (K1), Eponine_23 (K4), Fefferhead_21 (K6), Fionnbharth_23 (K4), ForeverHowLong_17 (G1), Frosty24_17 (G1), Ganymede_23 (K1), Geraldini_22 (K1), Gideon_17 (G1), GoldenAsh_17 (G1), Gomashi_17 (G1), Grizzly_17 (G1), Guanica15_22 (K1), Halo_17 (G1), Hammy_21 (K6), HedwigODU_22 (K1), Homura_22 (K1), Hope_17 (G1), Hotshotbaby7_17 (G1), Hurricane_21 (K3), Hyperbowlee_22 (K1), Illumine_22 (K1), Inky_22 (K1), JAWS_22 (K1), JF1_23 (K4), Jane_17 (G1), Jarvi_22 (K1), Jayhawk_22 (K1), Jeckyll_22 (K1), Jeilious_17 (G), Jolene_17 (G1), Jolie2_17 (G4), Jonghyun_17 (G1), JorRay_17 (G1), Joy99_22 (K1), Juliette_23 (K4), Kareem_17 (G1), Kasen3_17 (G1), Keshu_21 (K3), KiSi_21 (K1), Kraw_23 (K4), Krueger_21 (K6), LastHope_22 (K1), LaterM_22 (K1), Lavahound_20 (K6), LeMond_21 (K1), Lea83_21 (K3), Lebo14_23 (K4), Lemuria_17 (G4), Liefie_17 (G1), LilPharaoh_18 (K1), LindNT_22 (K1), Llorens_22 (K1), LouisV14_17 (G1), Lunahalos_22 (K1), MOOREtheMARYer_17 (G3), MZKinsey_17 (G1), MacKat_22 (K1), MacnCheese_22 (K3), Maliketh_17 (G1), Malthus_24 (K4), MarkPhew_22 (K1), Marmie_17 (G1), Marshawn_23 (K6), McMater_22 (K1), Mdavu_18 (K1), MeaningOfLife_22 (K1), Megsy_22 (K1), Mercurio_18 (G4), MissDaisy_23 (K4), Mitti_23 (K4), Mowgli_17 (G1), Murucutumbu_22 (K1), Mynx_22 (K1), Neoh_17 (G), Nibb_21 (K1), Nikao_18 (K1), Niklas_22 (K1), November_20 (K6), Nutello_18 (K1), OctaviousRex_17 (G1), Olga_17 (G1), OmniCritical_23 (K4), Oscar_21 (K1), Padfoot_22 (K1), Padpat_22 (K1), Paito_17 (G1), Patt_23 (K4), Peanam_22 (K1), Peeb_17 (G1), Peel_22 (K1), Periodt_17 (G1), Pharb_21 (K3), PhelpsODU_21 (K6), Phish_17 (G1), Phloodle_17 (G1), Phrank_21 (K6), Phreak_17 (G1), Piatt_22 (K1), PinkYoshi_17 (G1), Pinnie_18 (G3), Pisa1_21 (K1), Pisa4_21 (K1), Pixie_21 (K3), Plagueis_17 (G1), Pokerus_21 (K1), Primanti_17 (G1), Prithvi_22 (K1), QuincyRose_21 (K1), Rabbs_17 (G1), Ramen_22 (K1), Rapunzel97_22 (K1), Rattrick_17 (G1), Remy19_17 (G1), Renaissance_17 (G1), Reptar3000_23 (K4), Richarlison_17 (G1), Richo_22 (K1), Rosmarinus_22 (K1), Ruriko_17 (G1), Ruthiejr_22 (K4), SamScheppers_21 (K4), SamuelLPlaqson_22 (K1), Scarlett_21 (K1), Schiebel_17 (G1), SgtBeansprout_18 (K1), ShaboiShabazz_17 (G1), Shadow1_20 (K6), Shaobing_22 (K1), ShedlockHolmes_21 (K3), ShiaSurprise_22 (K1), SirPhilip_21 (K6), Sizemore_17 (G1), Slarp_23 (K4), Slimphazie_22 (K1), Sneeze_17 (G1), Spock_22 (K1), Stargaze_17 (G5), Stinson_22 (K1), Sulley_22 (K1), Sunflower1121_20 (K6), Sweets_17 (G1), Syra333_21 (K6), TBond007_21 (K3), TClif_21 (K6), Tachez_22 (K1), Taheera_17 (G1), TaiwanKao_23 (K1), Taquito_21 (K4), Teejan_18 (K1), Terror_17 (G1), Tierra_21 (K6), Tigress9_21 (K6), TinaBug_17 (G1), TingHuaYa_22 (K1), TiniBug_22 (K1), Tiri_22 (K1), TomBrady_17 (G1), Topper_22 (K1), Torres_18 (K1), TreyKay_22 (K1), TribbleTrouble_20 (K3), Trice_18 (K1), TruffulaTree_22 (K1), Twitch_22 (K1), Unicorn_21 (K6), Urkel_22 (K1), Validus_22 (K1), Veliki_22 (K1), Wendigo_17 (G1), Wintermute_23 (K4), Ximenita_22 (K6), Y10_23 (K4), Y2_23 (K4), YangYin_17 (G5), YasnayaPolyana_23 (K4), YoureAdopted_21 (K1), Yuna_22 (K6), Yunkel11_22 (K1), Zabiza_22 (K1), Zavala_22 (K1), ZoMa_17 (G1), Zombie_17 (G1),

Start 26:

- Found in 5 of 1014 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 924
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Avocado_17 (G2), Cambiare_18 (G2),

Start 27:

- Found in 9 of 1014 (0.9%) of genes in pham
- Manual Annotations of this start: 5 of 924
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_20 (AB), FF47_20 (AB), JacoRen57_16 (AB), LongHai_21 (AB), Maco6_18 (AB), Muddy_20 (AB), NoShow_17 (AB), Salvus_21 (AB), Teagster_17 (EB),

Start 28:

- Found in 39 of 1014 (3.8%) of genes in pham
- Manual Annotations of this start: 36 of 924
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Agent47_20 (K5), AlleyCat_20 (K5), BananenDer11_20 (K5), BoostSeason_18 (K2), Collard_20 (K5), Dadosky_20 (K5), DismalFunk_18 (K2), DismalStressor_18 (K2), DoubleChamp_20 (K5), Doughnut_18 (K2), Edugator_19 (K5), Feyre_20 (K5), Findley_18 (K2), Gengar_20 (K5), Guillsminger_20 (K5), Heftyboy_20 (K5), InvictusManeo_20 (K5), Kratio_19 (K5), Larva_20 (K5), Leston_20 (K5), LilDirt_19 (K5), Marcoliusprime_18 (K2), Milly_18 (K2), Miryou_20 (K5), Mufasa_18 (K2), Neighly_20 (K3), OkiRoe_20 (K5), Omnicron_20 (K5), Paola_20 (K5), Psycho_20 (K5), Rando14_20 (K5), SoSeph_20 (K5), Strobilo_18 (K2), TM4_18 (K2), Thyatira_20 (K5), ViviJ_19 (K5), Waterfoul_20 (K5), ZoeJ_18 (K2),

Start 32:

- Found in 35 of 1014 (3.5%) of genes in pham
- No Manual Annotations of this start.
- Called 2.9% of time when present
- Phage (with cluster) where this start called: Qhanda_24 (K4),

Start 33:

- Found in 6 of 1014 (0.6%) of genes in pham
- Manual Annotations of this start: 5 of 924
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Bimmel_60 (BT), Ibantik_80 (JN), RunningOnE_73 (JN), Spooks_61 (BT), Success_62 (BT),

Start 36:

- Found in 1 of 1014 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ponzi_55 (singleton),

Start 38:

- Found in 2 of 1014 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 100.0% of time when present
- Phage (with cluster) where this start called: P3MA_17 (singleton), TPA4_18 (singleton),

Start 40:

- Found in 1 of 1014 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 924

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nergal_21 (AG),

Start 42:

- Found in 2 of 1014 (0.2%) of genes in pham
- Manual Annotations of this start: 2 of 924
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_13 (X), Nebkiss_14 (X),

Start 47:

- Found in 1 of 1014 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MalagasyRose_23 (AG),

Start 50:

- Found in 6 of 1014 (0.6%) of genes in pham
- Manual Annotations of this start: 6 of 924
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_23 (Y), Bipper_23 (Y), Cracklewink_23 (Y), Faiyaz_23 (Y), Hilltopfarm_23 (Y), Typha_23 (Y),

Start 51:

- Found in 8 of 1014 (0.8%) of genes in pham
- Manual Annotations of this start: 3 of 924
- Called 62.5% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_18 (AY), Hum25_18 (FQ1), Neroxid_17 (FQ2), Pitbull_17 (FQ1), Raqqa_18 (AY),

Start 56:

- Found in 19 of 1014 (1.9%) of genes in pham
- Manual Annotations of this start: 4 of 924
- Called 21.1% of time when present
- Phage (with cluster) where this start called: CocoCinnamon_21 (FO), Khuang_15 (FS), Maja_17 (FO), Pigu_16 (FB),

Start 57:

- Found in 19 of 1014 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Stellammi_14 (UNK),

Start 58:

- Found in 20 of 1014 (2.0%) of genes in pham
- Manual Annotations of this start: 10 of 924
- Called 55.0% of time when present
- Phage (with cluster) where this start called: Alatato_16 (FB), Altostratus_15 (FS), ArV2_16 (singleton), BlackSpider_18 (FN), BrayBeast_17 (FB), DillyDally_16 (singleton), Kumotta_18 (FB), MargaretKali_18 (FB), RootBeer_16 (FA), Sarge_17 (FB), Shoya_16 (FB),

Start 59:

- Found in 4 of 1014 (0.4%) of genes in pham

- Manual Annotations of this start: 3 of 924
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Cardigan_45 (DD), JonJames_46 (DD), Yvonnestic_44 (DD),

Start 60:

- Found in 98 of 1014 (9.7%) of genes in pham
- Manual Annotations of this start: 92 of 924
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aaronocolus_19 (BD1), Aesir_29 (EF), Anakin_30 (EF), AnnaSerena_30 (EF), Annapurna_29 (EF), Artiphact_30 (EF), Asten_19 (BD1), BarryBee_21 (BD1), BeardedLady_20 (BD1), Bovely_19 (BD1), Brataylor_20 (BD1), BryanRecycles_20 (BD1), Caliburn_19 (BD1), Celeste_19 (BD1), Chivey_29 (EF), Chucky_19 (BD1), CoolCookie_30 (EF), Crestdrop_29 (EF), Cybele_30 (EF), DannyDe_29 (EF), Danzina_20 (BD1), Dattran_20 (BD1), Dauntless_29 (EF), Dwayne_19 (BD1), Eddasa_20 (BD1), Ejemplo_19 (BD1), Emaanora_21 (BD1), EnochSoames_21 (BD1), Erudite_29 (EF), Esperer_19 (BD1), FountainFog_29 (EF), FreddieHg_29 (EF), Gilda_30 (EF), Goby_19 (BD1), Godpower_20 (BD1), Hager_31 (EF), Haunter_30 (EF), Hiddenleaf_29 (EF), Hippo_19 (BD1), Hydra_21 (BD1), Indigo_19 (BD1), Izzy_20 (BD1), JDawG_29 (EF), Jash_20 (BD1), JingleBells_29 (EF), Karate_29 (EF), Katalie_20 (BD1), Kate_30 (EF), Krampus_30 (EF), Lannister_20 (BD1), Legacy_19 (BD1), Leviticus_19 (BD1), Lika_19 (BD1), Lorelei_19 (BD1), Maneekul_19 (BD1), MortySmith_28 (EF), Nabi_19 (BD1), Nanodon_21 (BD1), NarutoRun_30 (EF), Neptune_30 (EF), Nerdos_19 (BD1), OhDear_30 (EF), Oliynyk_20 (BD1), OverHedge_30 (EF), Ozzie_19 (BD1), OzzyJ_20 (BD1), Pharpay_30 (EF), Phettuccine_19 (BD1), PhunaPhoke_30 (EF), Potty_30 (EF), Poultress_29 (EF), Rachella_30 (EF), Rana_19 (BD1), RedBear_21 (BD1), Rie18_30 (EF), Rusticus_20 (BD1), SafetyGuy_30 (EF), SarahRose_19 (BD1), SilentWarrior_29 (EF), Snakehole_30 (EF), Snorlax_19 (BD1), South40_20 (BD1), Sujidade_20 (BD1), SunsetPointe_19 (BD1), TagePhighter_20 (BD1), Tedro_30 (EF), Tiggy93_30 (EF), Toma_19 (BD1), Tongui_29 (EF), Triste_19 (BD1), TuanPN_19 (BD1), Unstoppable_19 (BD1), Werner_19 (BD1), Whatever_19 (BD1), WinnieLou_31 (EF), Yasdnail_19 (BD1), Yosif_20 (BD3), Zemlya_20 (BD1),

Start 61:

- Found in 53 of 1014 (5.2%) of genes in pham
- Manual Annotations of this start: 4 of 924
- Called 7.5% of time when present
- Phage (with cluster) where this start called: Cen1621_15 (EH), Honk_15 (EH), P108C_15 (BU), ZamZam_19 (BD3),

Start 62:

- Found in 26 of 1014 (2.6%) of genes in pham
- Manual Annotations of this start: 21 of 924
- Called 96.2% of time when present
- Phage (with cluster) where this start called: Ajin_31 (EF), Alsaber_20 (BD3), Amela_19 (BD3), Bramble_31 (EF), Celery_22 (BD3), Conan_20 (BD3), Dexers_18 (BD3), ElGato_20 (BD3), Hitchhelle_18 (BD3), Kaine_19 (BD3), Kors_31 (EF), LordBart_31 (EF), Pavo_20 (BD3), Provolone_20 (BD3), RikSengupta_31 (EF), Saftant_19 (BD3), Sparcetus_31 (EF), Speedwell_24 (BD3), Sudan_19 (BD3), SunkenRoot_19 (BD3), TinyMiny_31 (EF), Vanseggelen_24 (BD3), Verabelle_20 (BD3), Verse_19 (BD3), phiCAM_20 (BD3),

Start 63:

- Found in 88 of 1014 (8.7%) of genes in pham
- Manual Annotations of this start: 55 of 924
- Called 63.6% of time when present
- Phage (with cluster) where this start called: Alvy_21 (BD2), Amethyst_19 (BD2), Andris_19 (BD2), Animus_20 (BD2), Axiom_20 (BD2), Barnstormer_15 (EH), BartholomewSD_21 (BD2), Bowden_20 (BD2), BroPlease_20 (BD4), Caelum_20 (BD2), Caron_15 (EH), Celia_19 (BD6), Daudau_19 (BD2), Diane_19 (BD2), ELB20_18 (BD2), Floof_16 (EH), Forester_16 (EH), GardenState_16 (EH), GirlDinner_19 (BD2), GodonK_88 (DK), GreenWeasel_21 (BD4), Gretchen_16 (EH), Haizum_19 (BD2), Hank144_20 (BD2), IAmGroot_16 (EH), Issmi_20 (BD2), Itza_19 (BD6), Janus_20 (BD2), Jevington_21 (BD2), Kromp_18 (singleton), Loofah_20 (BD2), Mabodamaca_16 (EH), Marav_22 (BD2), Nishikigoi_19 (BD2), Omar_20 (BD2), Pablito_19 (BD2), Paedore_19 (BD2), Paolo_21 (BD2), Percival_16 (EH), Phendrix_86 (DK), Puginator_21 (BD2), R4_19 (BD2), SqueakyClean_20 (BD2), SuMoo_15 (EH), SuperHands_16 (EH), Superstar_22 (BD2), Tefunt_19 (BD2), Thestral_20 (BD2), TinaBelcher_19 (BD2), Triumph_21 (BD2), TrvxScott_18 (BD2), Urza_19 (BD6), UtzChips_15 (EH), VieEnRose_19 (BD6), Zainub_21 (BD2), phiHau3_21 (BD4),

Start 65:

- Found in 2 of 1014 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CanFranMach_18 (EB), Eden_16 (EB),

Start 66:

- Found in 160 of 1014 (15.8%) of genes in pham
- Manual Annotations of this start: 131 of 924
- Called 95.0% of time when present
- Phage (with cluster) where this start called: ATCC29399BC_15 (BU), ATCC29399BT_15 (BU), Abigail_17 (EB), Akino08_16 (EB), Albedo_17 (EB), Albright_17 (EB), AnnaLie_18 (EB), Aquarius_15 (BU), Armstrong_16 (EB), Arroyo_18 (EB), Attacne_15 (BU), AvGardian_17 (EB), Avocadoman_17 (EB), AylexOG_18 (EB), BAjuniper_17 (EB), BabyDaisy_18 (EB), BabyYoda_17 (EB), Bachaco_16 (EB), BelmontSKP_18 (EB), Bengal_17 (EB), Bernstein_16 (EB), Brahms_16 (EB), BruceLethal_15 (BU), BubbaBear_17 (EB), Buldak_16 (EB), Burritobowl_17 (EB), C3PO_30 (EN), Cashington_17 (EB), Celaena_16 (EB), ChiliPepper_16 (EB), Clayda5_16 (EB), CliffHanger_17 (EB), Coltrane_16 (EB), Cota_15 (BU), CroZenni_17 (EB), Cruella_30 (EN), CupcakePrincess_17 (EB), Darwin_33 (EN), DickRichards_17 (EB), Didgeridoo_18 (EB), DirtyBubble_17 (EB), Dismas_16 (EB), Doobus_17 (EB), DrParker_15 (BU), Elva_18 (EB), Enochoraptor_15 (BU), Enoki_15 (BU), Eula_17 (EB), Finalfrontier_18 (EB), FlameThrower_16 (EB), Franklin22_17 (EB), GMA2_29 (DS), Gack_16 (EB), Gallia_41 (singleton), Grist_17 (EB), Icarian_18 (EB), IndyLu_17 (EB), Jabb_17 (EB), Johnathan_17 (EB), Jovita_17 (EB), Kamdara_16 (EB), Kate33_17 (EB), Katzastrophic_16 (EB), Keiki_15 (BU), Kenzers_17 (EB), Kieran_16 (EB), Kimchi1738_30 (EN), Kubed_15 (BU), Lahqtemish_17 (EB), Lauchelly_15 (BU), Leviosa_15 (BU), LilBandit_15 (BU), Lilo27_17 (EB), LimaBean_17 (EB), Loviatar_17 (EB), Lynlen_17 (EB), MEAK_15 (BU), Milomuff_18 (EB), Moyashi_15 (BU), MrAK_15 (BU), MsUbiquitous_17 (EB), Nicky22_18 (EB), Olliecat_16 (EB), Ouroboros_15 (BU), P1.1_15 (BU), P100.1_15 (BU), P100A_15 (BU), P100D_15 (BU), P101A_15 (BU), P104A_15 (BU), P104B_15 (BU), P105_15 (BU), P106A_15

(BU), P106C_15 (BU), P106I_15 (BU), P106L_15 (BU), P106M_15 (BU), P107A_15 (BU), P107C_15 (BU), P1201_46 (singleton), P14.4_15 (BU), P9.1_15 (BU), PA6_15 (BU), PAD20_15 (BU), PAS50_15 (BU), PHL010M04_15 (BU), PHL037M02_15 (BU), PHL060L00_15 (BU), PHL067M10_15 (BU), PHL071N05_15 (BU), PHL111M01_15 (BU), PHL112N00_15 (BU), PHL113M01_15 (BU), PHL114L00_15 (BU), PastaFagioli_17 (EB), Pecas_17 (EB), PeteyPab_32 (EN), PhigPhack_18 (EB), Phisb_17 (EB), Pirate_15 (BU), PondAmelia_18 (EB), PotatoChip_33 (EN), Procrass1_15 (BU), QMacho_18 (EB), QueenBey_15 (BU), Quenya_17 (EB), Rileysaurus_15 (BU), Rollins_16 (EB), Rona_16 (EB), SKKY_15 (BU), SanaSana_18 (EB), SansAfet_17 (EB), SarBear_17 (EB), Sharkboy_16 (EB), SirBeanington_17 (EB), Skylord_16 (EB), Slay_17 (EB), Softsoap_16 (EB), Solea_19 (EB), Solid_15 (BU), Squircle_16 (EB), Stickynote_32 (EN), Stoor_17 (EB), Stormborn_15 (BU), Stromboli_17 (EB), Supernova_15 (BU), Swervy_17 (EB), TukTuk_17 (EB), Vitas_16 (EB), WalkingDead_17 (EB), Wizzo_15 (BU), Zion_33 (EN),

Start 67:

- Found in 13 of 1014 (1.3%) of genes in pham
- Manual Annotations of this start: 11 of 924
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Benry_20 (EJ), DelaGarza_21 (GF), FireCastle_20 (EJ), Gingerbug_19 (GF), IndiRoo_20 (EJ), Lesiram_22 (GF), Milani_21 (EJ), Shayna_16 (EB), SunnyD_16 (EB), Sweetums_23 (GF), Teng_23 (GF), Wrackline_27 (GF),

Start 68:

- Found in 306 of 1014 (30.2%) of genes in pham
- Manual Annotations of this start: 6 of 924
- Called 2.6% of time when present
- Phage (with cluster) where this start called: Barco_18 (CV), CheeseSpider_21 (CV), Guacamole_18 (CV), Lysidious_19 (CV), Melba_18 (CV), Pipp_18 (CV), Soilmate_18 (CV), Zarbodnamra_18 (CV),

Start 69:

- Found in 41 of 1014 (4.0%) of genes in pham
- Manual Annotations of this start: 33 of 924
- Called 92.7% of time when present
- Phage (with cluster) where this start called: Alove_20 (EJ), Antuna_23 (GA), Appa_22 (GA), AyoTeo_22 (EJ), Blett_23 (GA), Bush_23 (GA), Carrillo_24 (GA), Cicada_22 (EJ), CookieDog_23 (GA), Dropshot_22 (GA), Goodman_21 (EJ), Guzman_24 (GA), Htur_20 (EJ), Jakelyne_24 (GA), Jera_21 (EJ), Johann_21 (EJ), Labella_22 (EJ), Linayshia_20 (EJ), Losacky_24 (GA), Mariel_24 (GA), MenE_23 (GA), NCRodriguez_24 (GA), Olympi_22 (EJ), PermaG_21 (EJ), PhillyJawn_23 (GA), Phingu_25 (GA), Phonegingi_22 (GA), Pickles13_22 (GA), Rasovi_20 (EJ), Rootkit7_20 (EJ), SBlackberry_20 (EJ), ScoobySnack_21 (GA), TurboVicky_20 (EJ), Typher_22 (EJ), Violeta_24 (GA), Warren_23 (GA), Winchester007_24 (GA), Zanella_20 (EJ),

Start 70:

- Found in 30 of 1014 (3.0%) of genes in pham
- Manual Annotations of this start: 24 of 924
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Azula_20 (CV), Bantam_29 (DL), Blueberry_20 (CV), Culver_47 (CQ1), Daredevil_28 (DL), DatBoi_30 (DL),

Fairfaxidum_18 (CV), Fenry_17 (CV), Gambino_20 (CV), Jalammah_20 (CV), JuJu_18 (CV), MissRona_20 (CV), Mollymur_30 (DL), Norvs_48 (CQ1), PCoral7_18 (CV), PrincePatrick_18 (CV), Samba_18 (CV), Smoothie_48 (CQ1), SpeedDemon_310 (DL), Toast_18 (CV), Towmatter_27 (DL), WilliamBoone_47 (CQ1), William_18 (CV), Zilla_18 (CV),

Start 71:

- Found in 12 of 1014 (1.2%) of genes in pham
- Manual Annotations of this start: 6 of 924
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_99 (DS), Boopy_100 (DS), Forza_100 (DS), Mareelih_98 (DS), Sapo_15 (DA), Sixama_98 (DS),

Start 72:

- Found in 35 of 1014 (3.5%) of genes in pham
- Manual Annotations of this start: 26 of 924
- Called 74.3% of time when present
- Phage (with cluster) where this start called: Archis_19 (CV), Begonia_19 (CV), BlingBling_18 (CV), Blino_18 (CV), CaptainKirk2_18 (CV), CarolAnn_18 (CV), Delian_18 (CV), Frizzle_15 (DA), Ghobes_15 (DA), Hitter_18 (CV), JasperJr_18 (CV), KappaFarmDelta_18 (CV), Malachai_19 (CV), Mellie_17 (CV), MintFen_18 (CV), Murp_18 (CV), Obliviate_17 (CV), OneUp_41 (CQ2), Petra_20 (CV), PhrostedPhlake_19 (CV), UmaThurman_18 (CV), Utz_18 (CV), Walrus_19 (CV), Wisp_17 (CV), Wocket_19 (CV), ZiggyZoo_17 (CV),

Start 74:

- Found in 18 of 1014 (1.8%) of genes in pham
- Manual Annotations of this start: 13 of 924
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Abscondus_46 (CQ1), Aphelion_47 (CQ1), Archimedes_15 (DA), Bachita_49 (CQ1), BrutonGaster_35 (CQ2), ClubL_47 (CQ1), Cucurbita_49 (CQ1), Dusty_46 (CQ1), Engineer_48 (CQ1), Geeche_46 (CQ1), Lozinak_47 (CQ1), Miskis_45 (CQ1), PhinkBoden_47 (CQ1), Toniann_47 (CQ1),

Start 77:

- Found in 3 of 1014 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 33.3% of time when present
- Phage (with cluster) where this start called: ChewyVIII_55 (singleton),

Start 79:

- Found in 109 of 1014 (10.7%) of genes in pham
- Manual Annotations of this start: 5 of 924
- Called 4.6% of time when present
- Phage (with cluster) where this start called: Apiary_44 (CR6), Braxoaddie_44 (CR6), CoffeeBean_44 (CR6), Maselop_44 (CR6), Polygyuki_44 (CR6),

Start 81:

- Found in 31 of 1014 (3.1%) of genes in pham
- Manual Annotations of this start: 28 of 924
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Arti_40 (CR2), Dalilpop_45 (CR1), Emianna_40 (CR2), Ennea_46 (CR3), Flapper_44 (CR1), Float294_42 (CR3), Foxboro_41 (CR2), Fury_49 (CR5), GRU1_30 (CR1), GTE5_31 (CR1), GTE8_29 (CR2), GrootJr_42 (CR2), HomeFry_46 (CR5), Jifall16_39 (CR2), KidneyBean_40 (CR2), Kurt_40 (CR2), Lollipop1437_45 (CR3), MerCougar_41 (CR2), NatB6_40 (CR2), NovumRegina_40 (CR2), Outis_41 (CR2), Patio_43 (CR3), Phomeo_39 (CR2), Pleakley_49 (CR5), RedRaider_47 (CR3), Scuba_49 (CR5), Skysand_42 (CR3), StarStruck_41 (CR2), Tracker_40 (CR2), Turuncu_44 (CR1), Wheezy_40 (CR2),

Start 83:

- Found in 68 of 1014 (6.7%) of genes in pham
- Manual Annotations of this start: 6 of 924
- Called 8.8% of time when present
- Phage (with cluster) where this start called: Bonum_43 (CR2), Buggaboo_41 (CR2), Commandaria_42 (CR2), Kabluna_43 (CR2), NosilaM_43 (CR2), SuperSulley_41 (CR2),

Start 85:

- Found in 19 of 1014 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Frokostdame_18 (CV),

Start 86:

- Found in 34 of 1014 (3.4%) of genes in pham
- Manual Annotations of this start: 9 of 924
- Called 26.5% of time when present
- Phage (with cluster) where this start called: BiPauneto_43 (CR4), HubbaBubba_38 (CR4), IDyn_41 (CR4), Marietta_42 (CR4), NadineRae_40 (CR4), Pemberton_43 (CR4), Sukkupi_42 (CR4), WhoseManz_42 (CR4), Yndexa_42 (CR4),

Start 92:

- Found in 27 of 1014 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 3.7% of time when present
- Phage (with cluster) where this start called: Sucha_17 (EJ),

Start 93:

- Found in 58 of 1014 (5.7%) of genes in pham
- No Manual Annotations of this start.
- Called 1.7% of time when present
- Phage (with cluster) where this start called: Parvaparticeps_34 (UNK),

Start 94:

- Found in 19 of 1014 (1.9%) of genes in pham
- Manual Annotations of this start: 6 of 924
- Called 31.6% of time when present
- Phage (with cluster) where this start called: Catfish_21 (CU5), Dardanus_23 (CU3), DinoDaryn_23 (CU1), Goib_22 (CU1), Huffy_23 (CU1), TZGordon_23 (CU1),

Start 95:

- Found in 42 of 1014 (4.1%) of genes in pham

- No Manual Annotations of this start.
- Called 2.4% of time when present
- Phage (with cluster) where this start called: GMA4_17 (singleton),

Start 96:

- Found in 12 of 1014 (1.2%) of genes in pham
- Manual Annotations of this start: 5 of 924
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Banquo_25 (CU1), Gsput1_19 (CU2), Schmidt_19 (CU4), Splinter_21 (CU1), TinaLin_24 (CU1), Vendetta_21 (CU1),

Start 97:

- Found in 7 of 1014 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Elener_19 (singleton),

Start 100:

- Found in 52 of 1014 (5.1%) of genes in pham
- Manual Annotations of this start: 5 of 924
- Called 17.3% of time when present
- Phage (with cluster) where this start called: Bauer_20 (FN), Cassini_18 (FN), JeanClaude_17 (FB), MrSmee_17 (FQ1), Raya_17 (FQ2), Rooter_16 (FB), Skitty_17 (FQ1), Skyerus_17 (FQ2), Zucker_19 (FN),

Start 104:

- Found in 1 of 1014 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EmiRose_16 (singleton),

Start 106:

- Found in 28 of 1014 (2.8%) of genes in pham
- Manual Annotations of this start: 19 of 924
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Adora_19 (CZ4), Annalisa_19 (CZ4), Beenie_19 (CZ4), Clark_19 (CZ4), Dolores_19 (CZ4), Dorito_18 (CZ4), Easley_19 (CZ4), Hortense_19 (CZ4), Howe_19 (CZ4), Invectra_19 (CZ4), Mcklovin_19 (CZ4), MichaelScott_19 (CZ4), Oregano_19 (CZ4), PhriskyACE_18 (CZ4), Rizz_22 (CZ4), Samman98_19 (CZ4), Sekhmet_19 (CZ4), Shlim410_19 (CZ4), Tuti_19 (CZ4), WinkNick_19 (CZ4),

Start 107:

- Found in 43 of 1014 (4.2%) of genes in pham
- Manual Annotations of this start: 33 of 924
- Called 83.7% of time when present
- Phage (with cluster) where this start called: Anatole_16 (BV), Attis_16 (CZ2), B3_16 (BV), Bjaness_16 (CZ2), Clap_16 (CZ2), Cynthia_16 (CZ2), Denise_16 (CZ5), E1_16 (BV), Ebert_16 (CZ2), EdnaMode_16 (CZ2), Faith5x5_16 (CZ6), FroggyToad_16 (CZ2), GemG_16 (CZ2), Gizermo_16 (CZ2), Haley23_16 (CZ2), JCole_16 (CZ2), Jalleen_17 (CZ2), Lamberg_16 (CZ2), LordFarquaad_16 (CZ2), Lton_16 (CZ), Matteo_16 (CZ2), Mocha12_16 (CZ2), Moosehead_16 (CZ6), Nettuno_16 (CZ2), OneDirection_16 (CZ6), Pepperoni_16 (CZ), Pickett_16 (CZ2), Sahara_16 (CZ2),

Savage_16 (CZ2), SoilAssassin_16 (CZ2), Sproutie_16 (CZ2), TuertoX_16 (CZ2), Vasanti_16 (CZ2), Whiteclaw_16 (CZ2), Yeet412_16 (CZ2), Yinzer_16 (CZ2),

Start 109:

- Found in 5 of 1014 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 924
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Eyre_16 (singleton), RavenCo17_16 (CZ8),

Start 110:

- Found in 29 of 1014 (2.9%) of genes in pham
- Manual Annotations of this start: 2 of 924
- Called 6.9% of time when present
- Phage (with cluster) where this start called: Gagieri_44 (CR6), MacGully_49 (CR7),

Start 111:

- Found in 3 of 1014 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Mbo4_16 (singleton),

Start 112:

- Found in 106 of 1014 (10.5%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 0.9% of time when present
- Phage (with cluster) where this start called: Gudmit_17 (singleton),

Start 115:

- Found in 92 of 1014 (9.1%) of genes in pham
- Manual Annotations of this start: 37 of 924
- Called 44.6% of time when present
- Phage (with cluster) where this start called: Agueybana_18 (CZ1), AlumE_18 (CZ1), Antonio_18 (CZ1), BatStarr_18 (CZ1), BaxterFox_17 (CZ3), Bialota_18 (CZ1), Bosnia_18 (CZ1), BoyNamedSue_18 (CZ1), Bunnybear_17 (CZ), Dillpickles_19 (CZ1), DobbysSock_18 (CZ4), Eudoria_18 (CZ1), Eviarto_18 (CZ1), Herod_18 (CZ1), Hugley_18 (CZ1), Hyzer_18 (CZ1), Kita_18 (CZ1), Madavieve_18 (CZ1), Madeline_18 (CZ1), Manasvini_18 (CZ1), Maridalia_17 (CZ1), Neobush_18 (CZ1), Nymphadora_18 (CZ1), Ohgeesy_18 (CZ), PantheRoc_18 (CZ3), Polly_18 (CZ1), Powerball_18 (CZ4), Sidious_18 (CZ7), Suerte_17 (CZ4), Suscepit_18 (CZ1), SushiChef_19 (CZ), Tayonia_18 (CZ1), ThankyouJordi_17 (CZ1), Thimann_19 (CZ4), TimTam_18 (CZ1), Trumpet_18 (CZ1), Twinkle_19 (CZ4), WelcomeAyanna_17 (CZ1), Yeezy_19 (CZ3), Zameen_18 (CZ1), Zirinka_18 (CZ1),

Start 118:

- Found in 70 of 1014 (6.9%) of genes in pham
- Manual Annotations of this start: 1 of 924
- Called 1.4% of time when present
- Phage (with cluster) where this start called: Jace_16 (singleton),

Start 121:

- Found in 3 of 1014 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 924

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finkle_18 (singleton), GMA1_18 (singleton), TinyDot_18 (singleton),

Start 123:

- Found in 7 of 1014 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: BFK20_ORF16 (singleton),

Start 132:

- Found in 1 of 1014 (0.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigAnti_23 (singleton),

Start 207:

- Found in 100 of 1014 (9.9%) of genes in pham
- No Manual Annotations of this start.
- Called 1.0% of time when present
- Phage (with cluster) where this start called: BellaJr_20 (FN),

Summary by clusters:

There are 73 clusters represented in this pham: singleton, FS, Y, DK, CZ2, CZ3, DD, CZ1, CZ6, DL, CZ4, DA, K3, BU, K1, AB, AG, K6, K5, K4, K8, CZ5, DS, FN, FO, G5, G4, CU3, G2, G1, CZ7, BD4, CR7, BD6, BD1, BD3, BD2, CQ2, CQ1, G3, EN, EH, G, EJ, BV, EF, FA, CU5, EB, CZ, CU4, GA, AY, X, UNK, K2, CV, BT, CU2, CR2, CR3, CR1, CR6, CU1, CR4, GF, FB, CR5, JN, CZ8, FQ2, K7, FQ1,

Info for manual annotations of cluster AB:

- Start number 27 was manually annotated 4 times for cluster AB.

Info for manual annotations of cluster AG:

- Start number 40 was manually annotated 1 time for cluster AG.
- Start number 47 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AY:

- Start number 51 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster BD1:

- Start number 60 was manually annotated 55 times for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 63 was manually annotated 33 times for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 60 was manually annotated 1 time for cluster BD3.
- Start number 61 was manually annotated 1 time for cluster BD3.
- Start number 62 was manually annotated 14 times for cluster BD3.

Info for manual annotations of cluster BD4:

- Start number 63 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:

- Start number 63 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BT:

- Start number 33 was manually annotated 3 times for cluster BT.

Info for manual annotations of cluster BU:

- Start number 61 was manually annotated 1 time for cluster BU.
- Start number 66 was manually annotated 44 times for cluster BU.

Info for manual annotations of cluster BV:

- Start number 107 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster CQ1:

- Start number 70 was manually annotated 4 times for cluster CQ1.
- Start number 74 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 72 was manually annotated 1 time for cluster CQ2.
- Start number 74 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CR1:

- Start number 81 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 81 was manually annotated 15 times for cluster CR2.
- Start number 83 was manually annotated 6 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 81 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 86 was manually annotated 9 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 81 was manually annotated 4 times for cluster CR5.

Info for manual annotations of cluster CR6:

- Start number 79 was manually annotated 5 times for cluster CR6.
- Start number 110 was manually annotated 1 time for cluster CR6.

Info for manual annotations of cluster CR7:

- Start number 110 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster CU1:

- Start number 94 was manually annotated 4 times for cluster CU1.
- Start number 96 was manually annotated 4 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 94 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 96 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 94 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CV:

- Start number 68 was manually annotated 6 times for cluster CV.
- Start number 70 was manually annotated 14 times for cluster CV.
- Start number 72 was manually annotated 23 times for cluster CV.
- Start number 85 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ:

- Start number 107 was manually annotated 2 times for cluster CZ.
- Start number 115 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 115 was manually annotated 26 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 107 was manually annotated 24 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 115 was manually annotated 3 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 106 was manually annotated 19 times for cluster CZ4.
- Start number 115 was manually annotated 5 times for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 107 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 107 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster CZ7:

- Start number 115 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster CZ8:

- Start number 109 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DA:

- Start number 71 was manually annotated 1 time for cluster DA.
- Start number 72 was manually annotated 2 times for cluster DA.
- Start number 74 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DD:

- Start number 59 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DK:

- Start number 63 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DL:

- Start number 70 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DS:

- Start number 71 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster EB:

- Start number 27 was manually annotated 1 time for cluster EB.
- Start number 65 was manually annotated 1 time for cluster EB.
- Start number 66 was manually annotated 79 times for cluster EB.
- Start number 67 was manually annotated 2 times for cluster EB.

Info for manual annotations of cluster EF:

- Start number 60 was manually annotated 36 times for cluster EF.
- Start number 62 was manually annotated 7 times for cluster EF.

Info for manual annotations of cluster EH:

- Start number 61 was manually annotated 2 times for cluster EH.
- Start number 63 was manually annotated 12 times for cluster EH.

Info for manual annotations of cluster EJ:

- Start number 67 was manually annotated 4 times for cluster EJ.
- Start number 69 was manually annotated 16 times for cluster EJ.
- Start number 92 was manually annotated 1 time for cluster EJ.

Info for manual annotations of cluster EN:

- Start number 66 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster FA:

- Start number 58 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster FB:

- Start number 56 was manually annotated 1 time for cluster FB.
- Start number 58 was manually annotated 6 times for cluster FB.
- Start number 100 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FN:

- Start number 58 was manually annotated 1 time for cluster FN.
- Start number 100 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FO:

- Start number 56 was manually annotated 2 times for cluster FO.

Info for manual annotations of cluster FQ1:

- Start number 51 was manually annotated 2 times for cluster FQ1.
- Start number 100 was manually annotated 2 times for cluster FQ1.

Info for manual annotations of cluster FS:

- Start number 56 was manually annotated 1 time for cluster FS.
- Start number 58 was manually annotated 1 time for cluster FS.

Info for manual annotations of cluster G:

- Start number 25 was manually annotated 2 times for cluster G.

Info for manual annotations of cluster G1:

- Start number 25 was manually annotated 70 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 17 was manually annotated 2 times for cluster G2.
- Start number 26 was manually annotated 2 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 25 was manually annotated 3 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 25 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 25 was manually annotated 3 times for cluster G5.

Info for manual annotations of cluster GA:

- Start number 69 was manually annotated 17 times for cluster GA.

Info for manual annotations of cluster GF:

- Start number 67 was manually annotated 5 times for cluster GF.

Info for manual annotations of cluster JN:

- Start number 33 was manually annotated 2 times for cluster JN.

Info for manual annotations of cluster K1:

- Start number 25 was manually annotated 113 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 28 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 25 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 25 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 28 was manually annotated 25 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 25 was manually annotated 26 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 24 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 21 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster UNK:

- Start number 57 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster X:

- Start number 42 was manually annotated 2 times for cluster X.

Info for manual annotations of cluster Y:

- Start number 50 was manually annotated 6 times for cluster Y.

Gene Information:

Gene: 8UZL_20 Start: 14891, Stop: 16003, Start Num: 27

Candidate Starts for 8UZL_20:

(Start: 27 @14891 has 5 MA's), (35, 14939), (Start: 106 @15047 has 19 MA's), (113, 15056), (155, 15125), (162, 15137), (170, 15152), (243, 15299), (304, 15407), (351, 15482), (356, 15491), (369, 15527), (399, 15596), (411, 15638), (443, 15683), (446, 15692), (470, 15749), (508, 15854), (547, 15965),

Gene: ATCC29399BC_15 Start: 11283, Stop: 12224, Start Num: 66

Candidate Starts for ATCC29399BC_15:

(Start: 57 @11268 has 1 MA's), (Start: 61 @11274 has 4 MA's), (Start: 63 @11277 has 55 MA's), (Start: 66 @11283 has 131 MA's), (Start: 83 @11316 has 6 MA's), (Start: 86 @11322 has 9 MA's), (93, 11334), (Start: 118 @11361 has 1 MA's), (124, 11370), (140, 11400), (142, 11403), (143, 11406), (152, 11418), (157, 11427), (165, 11442), (181, 11472), (200, 11502), (207, 11517), (212, 11532), (213, 11535), (230, 11583), (238, 11601), (261, 11637), (265, 11643), (277, 11670), (278, 11673), (290, 11694), (299, 11712), (302, 11721), (317, 11745), (323, 11754), (358, 11817), (362, 11829), (383, 11871), (385, 11874), (387, 11877), (408, 11943), (423, 11964), (426, 11979), (433, 11994), (436, 12000), (472, 12072), (473, 12075), (494, 12093), (496, 12096), (499, 12105), (515, 12153), (521, 12165), (524, 12174), (529, 12183), (531, 12189), (534, 12195), (540, 12210),

Gene: ATCC29399BT_15 Start: 11281, Stop: 12228, Start Num: 66

Candidate Starts for ATCC29399BT_15:

(Start: 61 @11272 has 4 MA's), (Start: 66 @11281 has 131 MA's), (Start: 83 @11314 has 6 MA's), (Start: 86 @11320 has 9 MA's), (93, 11332), (Start: 100 @11341 has 5 MA's), (124, 11374), (140, 11404), (142, 11407), (143, 11410), (152, 11422), (161, 11437), (165, 11446), (181, 11476), (200, 11506), (207, 11521), (211, 11533), (212, 11536), (213, 11539), (238, 11605), (261, 11641), (265, 11647), (277, 11674), (278, 11677), (302, 11725), (317, 11749), (323, 11758), (362, 11833), (385, 11878), (387, 11881), (388, 11884), (408, 11947), (423, 11968), (426, 11983), (433, 11998), (436, 12004), (472, 12076), (473, 12079), (494, 12097), (496, 12100), (515, 12157), (521, 12169), (524, 12178), (531, 12193), (534, 12199), (540, 12214),

Gene: Aaronocolus_19 Start: 14993, Stop: 15850, Start Num: 60

Candidate Starts for Aaronocolus_19:

(Start: 60 @14993 has 92 MA's), (Start: 112 @15065 has 1 MA's), (124, 15083), (142, 15113), (162, 15146), (218, 15251), (245, 15278), (302, 15380), (331, 15425), (378, 15491), (381, 15497), (405, 15551), (408, 15563), (463, 15665), (466, 15677), (471, 15686), (542, 15839), (544, 15842),

Gene: AbbyDaisy_18 Start: 14442, Stop: 15422, Start Num: 51

Candidate Starts for AbbyDaisy_18:

(Start: 51 @14442 has 3 MA's), (140, 14571), (152, 14589), (159, 14601), (181, 14643), (190, 14661), (230, 14736), (343, 14943), (358, 14970), (370, 15006), (408, 15105), (424, 15135), (429, 15147), (438, 15168), (456, 15198), (468, 15231), (483, 15258), (499, 15300), (515, 15351), (521, 15363),

Gene: Abigail_17 Start: 13263, Stop: 14117, Start Num: 66

Candidate Starts for Abigail_17:

(Start: 66 @13263 has 131 MA's), (114, 13338), (133, 13368), (138, 13377), (204, 13476), (209, 13491), (245, 13548), (301, 13644), (304, 13653), (328, 13686), (388, 13770), (399, 13791), (456, 13908), (516, 14049), (544, 14109),

Gene: Abscondus_46 Start: 28440, Stop: 29321, Start Num: 74

Candidate Starts for Abscondus_46:

(Start: 70 @28434 has 24 MA's), (Start: 74 @28440 has 13 MA's), (Start: 110 @28488 has 2 MA's), (130, 28515), (170, 28587), (217, 28683), (293, 28791), (351, 28884), (362, 28908), (367, 28923), (411, 29019), (443, 29067), (514, 29247), (530, 29283),

Gene: ActinUp_22 Start: 16020, Stop: 17156, Start Num: 25

Candidate Starts for ActinUp_22:

(Start: 25 @16020 has 250 MA's), (Start: 68 @16137 has 6 MA's), (130, 16227), (141, 16248), (154, 16269), (168, 16296), (302, 16551), (352, 16632), (385, 16707), (392, 16722), (443, 16833), (461, 16875), (493, 16968), (503, 16992), (541, 17085), (549, 17124), (550, 17142),

Gene: Adephagia_22 Start: 16017, Stop: 17153, Start Num: 25

Candidate Starts for Adephagia_22:

(Start: 25 @16017 has 250 MA's), (Start: 68 @16134 has 6 MA's), (130, 16224), (141, 16245), (154, 16266), (168, 16293), (302, 16548), (352, 16629), (385, 16704), (392, 16719), (443, 16830), (461, 16872), (493, 16965), (503, 16989), (541, 17082), (549, 17121), (550, 17139),

Gene: Adonis_22 Start: 16023, Stop: 17159, Start Num: 25

Candidate Starts for Adonis_22:

(Start: 25 @16023 has 250 MA's), (Start: 68 @16140 has 6 MA's), (130, 16230), (141, 16251), (154, 16272), (168, 16299), (302, 16554), (352, 16635), (385, 16710), (392, 16725), (443, 16836), (461, 16878), (493, 16971), (503, 16995), (541, 17088), (549, 17127), (550, 17145),

Gene: Adora_19 Start: 17022, Stop: 17858, Start Num: 106

Candidate Starts for Adora_19:

(Start: 106 @17022 has 19 MA's), (Start: 115 @17031 has 37 MA's), (143, 17073), (163, 17106), (171, 17121), (201, 17169), (223, 17232), (225, 17238), (262, 17277), (291, 17331), (298, 17346), (311, 17370), (314, 17376), (338, 17412), (355, 17442), (361, 17451), (429, 17601), (472, 17691), (512, 17778),

Gene: Aesir_29 Start: 17532, Stop: 18422, Start Num: 60

Candidate Starts for Aesir_29:

(Start: 60 @17532 has 92 MA's), (215, 17787), (254, 17856), (270, 17880), (284, 17913), (381, 18069), (399, 18102), (408, 18135), (436, 18192), (464, 18243), (507, 18333), (521, 18363), (544, 18414), (545, 18417),

Gene: Agent47_20 Start: 16419, Stop: 17549, Start Num: 28

Candidate Starts for Agent47_20:

(Start: 28 @16419 has 36 MA's), (113, 16593), (152, 16659), (154, 16662), (168, 16689), (217, 16788), (275, 16890), (302, 16944), (323, 16974), (345, 17010), (346, 17013), (351, 17022), (383, 17097), (385, 17100), (399, 17136), (411, 17178), (425, 17196), (427, 17202), (443, 17226), (444, 17229), (461, 17268), (541, 17478), (549, 17517), (550, 17535),

Gene: Ageofdapage_22 Start: 15951, Stop: 17087, Start Num: 25

Candidate Starts for Ageofdapage_22:

(Start: 25 @15951 has 250 MA's), (Start: 68 @16068 has 6 MA's), (141, 16179), (154, 16200), (168, 16227), (218, 16329), (302, 16482), (352, 16563), (385, 16638), (392, 16653), (443, 16764), (461,

16806), (493, 16899), (503, 16923), (541, 17016), (549, 17055), (550, 17073),

Gene: Agueybana_18 Start: 16953, Stop: 17780, Start Num: 115

Candidate Starts for Agueybana_18:

(Start: 115 @16953 has 37 MA's), (151, 17007), (166, 17034), (221, 17148), (223, 17154), (235, 17169), (311, 17292), (338, 17334), (342, 17343), (399, 17448), (429, 17523), (442, 17544), (500, 17667), (512, 17700),

Gene: AizenPogi_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for AizenPogi_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Ajin_31 Start: 17618, Stop: 18502, Start Num: 62

Candidate Starts for Ajin_31:

(29, 17519), (Start: 62 @17618 has 21 MA's), (126, 17714), (138, 17735), (185, 17819), (187, 17825), (274, 17966), (408, 18215), (424, 18245), (464, 18323), (470, 18335), (471, 18338), (480, 18356), (509, 18422), (513, 18425), (514, 18428), (545, 18497),

Gene: Akino08_16 Start: 13047, Stop: 13904, Start Num: 66

Candidate Starts for Akino08_16:

(Start: 66 @13047 has 131 MA's), (78, 13071), (89, 13092), (114, 13122), (133, 13152), (140, 13164), (204, 13260), (209, 13275), (211, 13281), (245, 13332), (284, 13395), (301, 13428), (328, 13470), (399, 13575), (401, 13584), (404, 13593), (454, 13689), (509, 13824), (516, 13836), (544, 13896),

Gene: Alatato_16 Start: 12479, Stop: 13390, Start Num: 58

Candidate Starts for Alatato_16:

(30, 12392), (Start: 58 @12479 has 10 MA's), (64, 12488), (Start: 100 @12548 has 5 MA's), (157, 12635), (161, 12641), (172, 12662), (198, 12707), (207, 12725), (302, 12914), (319, 12941), (371, 13034), (399, 13079), (408, 13112), (424, 13142), (426, 13148), (436, 13169), (467, 13229), (521, 13331), (530, 13352),

Gene: Albedo_17 Start: 13131, Stop: 13985, Start Num: 66

Candidate Starts for Albedo_17:

(Start: 66 @13131 has 131 MA's), (114, 13206), (133, 13236), (138, 13245), (204, 13344), (245, 13416), (301, 13512), (304, 13521), (328, 13554), (388, 13638), (393, 13653), (509, 13905), (516, 13917), (544, 13977),

Gene: Albright_17 Start: 13042, Stop: 13896, Start Num: 66

Candidate Starts for Albright_17:

(Start: 66 @13042 has 131 MA's), (114, 13117), (133, 13147), (138, 13156), (204, 13255), (209, 13270), (245, 13327), (301, 13423), (304, 13432), (328, 13465), (388, 13549), (399, 13570), (456, 13687), (458, 13696), (508, 13813), (516, 13828), (544, 13888),

Gene: AlishaPH_22 Start: 16010, Stop: 17146, Start Num: 25

Candidate Starts for AlishaPH_22:

(Start: 25 @16010 has 250 MA's), (Start: 68 @16127 has 6 MA's), (130, 16217), (141, 16238), (154, 16259), (168, 16286), (302, 16541), (352, 16622), (385, 16697), (392, 16712), (443, 16823), (461, 16865), (493, 16958), (503, 16982), (541, 17075), (549, 17114), (550, 17132),

Gene: AlleyCat_20 Start: 16301, Stop: 17431, Start Num: 28

Candidate Starts for AlleyCat_20:

(Start: 28 @16301 has 36 MA's), (113, 16475), (152, 16541), (168, 16571), (217, 16670), (275, 16772), (302, 16826), (323, 16856), (345, 16892), (346, 16895), (351, 16904), (383, 16979), (385, 16982), (399, 17018), (411, 17060), (425, 17078), (427, 17084), (443, 17108), (444, 17111), (461, 17150), (497, 17252), (541, 17360), (549, 17399), (550, 17417),

Gene: Alove_20 Start: 15338, Stop: 16231, Start Num: 69

Candidate Starts for Alove_20:

(Start: 69 @15338 has 33 MA's), (133, 15431), (138, 15440), (182, 15518), (209, 15569), (235, 15629), (274, 15683), (275, 15686), (276, 15692), (425, 15974), (426, 15977), (463, 16046), (471, 16067), (472, 16070), (503, 16130), (531, 16196),

Gene: Alsaber_20 Start: 15677, Stop: 16534, Start Num: 62

Candidate Starts for Alsaber_20:

(Start: 62 @15677 has 21 MA's), (84, 15713), (Start: 112 @15749 has 1 MA's), (138, 15791), (218, 15935), (245, 15962), (376, 16169), (378, 16175), (390, 16199), (463, 16349), (531, 16499), (542, 16523), (544, 16526),

Gene: Altostratus_15 Start: 12904, Stop: 13848, Start Num: 58

Candidate Starts for Altostratus_15:

(37, 12850), (Start: 56 @12901 has 4 MA's), (Start: 58 @12904 has 10 MA's), (144, 13045), (157, 13066), (161, 13072), (167, 13084), (181, 13111), (207, 13156), (259, 13273), (299, 13354), (313, 13381), (391, 13516), (399, 13537), (429, 13612), (434, 13624), (444, 13645), (473, 13702), (496, 13720),

Gene: AlumE_18 Start: 16952, Stop: 17779, Start Num: 115

Candidate Starts for AlumE_18:

(Start: 115 @16952 has 37 MA's), (138, 16985), (151, 17006), (166, 17033), (221, 17147), (223, 17153), (235, 17168), (311, 17291), (338, 17333), (342, 17342), (399, 17447), (429, 17522), (442, 17543), (500, 17666), (512, 17699),

Gene: Alvy_21 Start: 15007, Stop: 15861, Start Num: 63

Candidate Starts for Alvy_21:

(Start: 63 @15007 has 55 MA's), (99, 15061), (124, 15097), (378, 15502), (542, 15850), (544, 15853),

Gene: Amela_19 Start: 15969, Stop: 16826, Start Num: 62

Candidate Starts for Amela_19:

(Start: 62 @15969 has 21 MA's), (84, 16005), (Start: 112 @16041 has 1 MA's), (138, 16083), (218, 16227), (304, 16359), (376, 16461), (378, 16467), (463, 16641), (471, 16662), (514, 16752), (531, 16791), (542, 16815), (544, 16818),

Gene: Amelie_18 Start: 15554, Stop: 16696, Start Num: 25

Candidate Starts for Amelie_18:

(Start: 25 @15554 has 250 MA's), (Start: 68 @15677 has 6 MA's), (130, 15767), (168, 15836), (217, 15935), (218, 15938), (275, 16037), (352, 16172), (443, 16373), (461, 16415), (462, 16418), (493, 16508), (503, 16532), (541, 16625), (549, 16664), (550, 16682),

Gene: Amethyst_19 Start: 15455, Stop: 16312, Start Num: 63

Candidate Starts for Amethyst_19:

(Start: 63 @15455 has 55 MA's), (124, 15545), (147, 15584), (218, 15713), (244, 15737), (274, 15776), (331, 15887), (337, 15896), (405, 16013), (408, 16025), (411, 16034), (471, 16148), (489, 16184), (518, 16247), (542, 16301), (544, 16304),

Gene: Amgine_20 Start: 16119, Stop: 17255, Start Num: 25

Candidate Starts for Amgine_20:

(Start: 25 @16119 has 250 MA's), (Start: 68 @16236 has 6 MA's), (102, 16287), (168, 16395), (218, 16497), (219, 16500), (275, 16596), (302, 16650), (345, 16716), (351, 16728), (461, 16974), (462, 16977), (503, 17091), (541, 17184), (549, 17223), (550, 17241),

Gene: Aminay_20 Start: 16296, Stop: 17435, Start Num: 24

Candidate Starts for Aminay_20:

(Start: 24 @16296 has 1 MA's), (32, 16320), (49, 16392), (Start: 68 @16422 has 6 MA's), (125, 16506), (154, 16554), (166, 16578), (217, 16680), (275, 16782), (302, 16836), (348, 16905), (351, 16911), (366, 16947), (383, 16986), (411, 17064), (461, 17154), (473, 17190), (484, 17220), (498, 17259), (541, 17364), (549, 17403), (550, 17421),

Gene: Amohnition_21 Start: 16493, Stop: 17629, Start Num: 25

Candidate Starts for Amohnition_21:

(Start: 25 @16493 has 250 MA's), (Start: 68 @16610 has 6 MA's), (Start: 79 @16628 has 5 MA's), (102, 16661), (130, 16700), (168, 16769), (217, 16868), (219, 16874), (275, 16970), (302, 17024), (345, 17090), (351, 17102), (383, 17177), (411, 17258), (427, 17282), (461, 17348), (462, 17351), (493, 17441), (541, 17558), (549, 17597), (550, 17615),

Gene: Anakin_30 Start: 17786, Stop: 18676, Start Num: 60

Candidate Starts for Anakin_30:

(Start: 60 @17786 has 92 MA's), (254, 18110), (270, 18134), (284, 18167), (381, 18323), (464, 18497), (521, 18617), (544, 18668), (545, 18671),

Gene: Anatole_16 Start: 12979, Stop: 13818, Start Num: 107

Candidate Starts for Anatole_16:

(105, 12976), (Start: 107 @12979 has 33 MA's), (Start: 109 @12982 has 2 MA's), (Start: 112 @12985 has 1 MA's), (124, 13003), (128, 13015), (139, 13036), (149, 13051), (154, 13060), (155, 13063), (162, 13075), (166, 13084), (173, 13096), (207, 13159), (227, 13219), (237, 13228), (270, 13282), (314, 13375), (316, 13378), (328, 13399), (341, 13423), (401, 13543), (424, 13597), (434, 13621), (443, 13630), (444, 13633), (455, 13651), (495, 13738), (502, 13756), (517, 13792), (520, 13798),

Gene: Anaya_23 Start: 16036, Stop: 17172, Start Num: 25

Candidate Starts for Anaya_23:

(Start: 25 @16036 has 250 MA's), (Start: 28 @16042 has 36 MA's), (Start: 68 @16153 has 6 MA's), (141, 16264), (154, 16285), (168, 16312), (302, 16567), (352, 16648), (392, 16738), (443, 16849), (461, 16891), (493, 16984), (503, 17008), (541, 17101), (549, 17140), (550, 17158),

Gene: Andris_19 Start: 14711, Stop: 15565, Start Num: 63

Candidate Starts for Andris_19:

(Start: 63 @14711 has 55 MA's), (99, 14765), (124, 14801), (162, 14864), (274, 15032), (374, 15197), (376, 15200), (378, 15206), (456, 15362), (471, 15401), (472, 15404), (542, 15554), (544, 15557),

Gene: Angel_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Angel_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Angelica_22 Start: 15985, Stop: 17121, Start Num: 25

Candidate Starts for Angelica_22:

(Start: 25 @15985 has 250 MA's), (Start: 68 @16102 has 6 MA's), (130, 16192), (141, 16213), (154, 16234), (168, 16261), (302, 16516), (352, 16597), (385, 16672), (392, 16687), (443, 16798), (461, 16840), (493, 16933), (503, 16957), (541, 17050), (549, 17089), (550, 17107),

Gene: Animus_20 Start: 15047, Stop: 15901, Start Num: 63

Candidate Starts for Animus_20:

(Start: 63 @15047 has 55 MA's), (162, 15200), (274, 15368), (374, 15533), (378, 15542), (411, 15623), (471, 15737), (542, 15890), (544, 15893),

Gene: Anma_22 Start: 15965, Stop: 17101, Start Num: 25

Candidate Starts for Anma_22:

(Start: 25 @15965 has 250 MA's), (Start: 68 @16082 has 6 MA's), (130, 16172), (141, 16193), (154, 16214), (168, 16241), (275, 16442), (302, 16496), (305, 16502), (352, 16577), (385, 16652), (392, 16667), (461, 16820), (493, 16913), (503, 16937), (541, 17030), (549, 17069), (550, 17087),

Gene: AnnaLie_18 Start: 13450, Stop: 14304, Start Num: 66

Candidate Starts for AnnaLie_18:

(Start: 66 @13450 has 131 MA's), (114, 13525), (133, 13555), (138, 13564), (204, 13663), (209, 13678), (245, 13735), (301, 13831), (304, 13840), (388, 13957), (399, 13978), (456, 14095), (516, 14236), (544, 14296),

Gene: AnnaSerena_30 Start: 17795, Stop: 18685, Start Num: 60

Candidate Starts for AnnaSerena_30:

(Start: 60 @17795 has 92 MA's), (254, 18119), (270, 18143), (284, 18176), (381, 18332), (408, 18398), (464, 18506), (521, 18626), (544, 18677), (545, 18680),

Gene: Annalisa_19 Start: 16513, Stop: 17349, Start Num: 106

Candidate Starts for Annalisa_19:

(Start: 106 @16513 has 19 MA's), (Start: 115 @16522 has 37 MA's), (143, 16564), (163, 16597), (171, 16612), (223, 16723), (225, 16729), (262, 16768), (291, 16822), (311, 16861), (338, 16903), (355, 16933), (361, 16942), (429, 17092), (472, 17182), (512, 17269),

Gene: Annapurna_29 Start: 16994, Stop: 17884, Start Num: 60

Candidate Starts for Annapurna_29:

(Start: 60 @16994 has 92 MA's), (215, 17249), (254, 17318), (270, 17342), (284, 17375), (381, 17531), (399, 17564), (408, 17597), (436, 17654), (464, 17705), (507, 17795), (521, 17825), (529, 17843), (544, 17876), (545, 17879),

Gene: Annihilator_17 Start: 15468, Stop: 16640, Start Num: 25

Candidate Starts for Annihilator_17:

(7, 15135), (Start: 25 @15468 has 250 MA's), (Start: 68 @15588 has 6 MA's), (Start: 79 @15606 has 5 MA's), (113, 15651), (116, 15657), (152, 15720), (171, 15756), (210, 15825), (211, 15828), (217, 15849), (247, 15903), (275, 15948), (292, 15978), (351, 16080), (358, 16092), (362, 16104), (368, 16122), (425, 16287), (443, 16317), (451, 16335), (461, 16359), (505, 16479), (541, 16569), (547, 16602),

Gene: Antonio_18 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Antonio_18:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500, 17663), (512, 17696),

Gene: Antsirabe_17 Start: 15810, Stop: 16985, Start Num: 25

Candidate Starts for Antsirabe_17:

(4, 15441), (7, 15501), (Start: 25 @15810 has 250 MA's), (Start: 79 @15951 has 5 MA's), (116, 16002), (154, 16068), (155, 16071), (166, 16092), (171, 16101), (210, 16170), (211, 16173), (218, 16197), (243, 16242), (247, 16248), (275, 16293), (326, 16383), (358, 16437), (381, 16497), (417, 16605), (443, 16662), (461, 16704), (463, 16710), (487, 16782), (494, 16800), (524, 16878), (526, 16881), (535, 16899), (547, 16947), (549, 16953),

Gene: Antuna_23 Start: 13703, Stop: 14563, Start Num: 69

Candidate Starts for Antuna_23:

(Start: 69 @13703 has 33 MA's), (89, 13739), (Start: 92 @13742 has 1 MA's), (Start: 112 @13763 has 1 MA's), (Start: 115 @13769 has 37 MA's), (124, 13781), (133, 13796), (171, 13862), (185, 13889), (209, 13919), (219, 13952), (286, 14045), (300, 14072), (376, 14195), (378, 14201), (393, 14234), (427, 14312), (540, 14549), (542, 14552),

Gene: Aphelion_47 Start: 28709, Stop: 29590, Start Num: 74

Candidate Starts for Aphelion_47:

(Start: 74 @28709 has 13 MA's), (Start: 110 @28757 has 2 MA's), (130, 28784), (170, 28856), (208, 28922), (217, 28952), (293, 29060), (351, 29153), (362, 29177), (367, 29192), (411, 29288), (443, 29336), (514, 29516), (530, 29552),

Gene: Apiary_44 Start: 30416, Stop: 31342, Start Num: 79

Candidate Starts for Apiary_44:

(Start: 79 @30416 has 5 MA's), (Start: 110 @30452 has 2 MA's), (178, 30569), (205, 30608), (211, 30626), (247, 30677), (302, 30776), (351, 30851), (356, 30860), (390, 30935), (397, 30956), (443, 31094), (461, 31130), (475, 31169), (493, 31211), (515, 31274), (531, 31307),

Gene: Apocalypse_22 Start: 15988, Stop: 17124, Start Num: 25

Candidate Starts for Apocalypse_22:

(Start: 25 @15988 has 250 MA's), (Start: 68 @16105 has 6 MA's), (130, 16195), (141, 16216), (154, 16237), (168, 16264), (269, 16453), (302, 16519), (352, 16600), (385, 16675), (392, 16690), (443, 16801), (461, 16843), (493, 16936), (503, 16960), (541, 17053), (549, 17092), (550, 17110),

Gene: Appa_22 Start: 13565, Stop: 14425, Start Num: 69

Candidate Starts for Appa_22:

(Start: 69 @13565 has 33 MA's), (89, 13601), (Start: 92 @13604 has 1 MA's), (Start: 112 @13625 has 1 MA's), (Start: 115 @13631 has 37 MA's), (124, 13643), (133, 13658), (171, 13724), (185, 13751), (209, 13781), (219, 13814), (286, 13907), (300, 13934), (376, 14057), (378, 14063), (393, 14096), (427, 14174), (540, 14411), (542, 14414),

Gene: Applecrisp_20 Start: 16530, Stop: 17666, Start Num: 25

Candidate Starts for Applecrisp_20:

(Start: 25 @16530 has 250 MA's), (Start: 68 @16647 has 6 MA's), (102, 16698), (168, 16806), (218, 16908), (219, 16911), (275, 17007), (302, 17061), (345, 17127), (351, 17139), (461, 17385), (462, 17388), (541, 17595), (549, 17634), (550, 17652),

Gene: Aquarius_15 Start: 11300, Stop: 12247, Start Num: 66

Candidate Starts for Aquarius_15:

(Start: 56 @11285 has 4 MA's), (Start: 61 @11291 has 4 MA's), (Start: 63 @11294 has 55 MA's), (Start: 66 @11300 has 131 MA's), (Start: 83 @11333 has 6 MA's), (93, 11351), (95, 11354), (Start: 100 @11360 has 5 MA's), (Start: 118 @11384 has 1 MA's), (124, 11393), (140, 11423), (142, 11426), (143, 11429), (152, 11441), (157, 11450), (181, 11495), (200, 11525), (207, 11540), (212, 11555), (213,

11558), (230, 11606), (238, 11624), (261, 11660), (265, 11666), (277, 11693), (278, 11696), (290, 11717), (302, 11744), (319, 11771), (323, 11777), (358, 11840), (362, 11852), (383, 11894), (385, 11897), (387, 11900), (399, 11933), (404, 11951), (408, 11966), (426, 12002), (433, 12017), (436, 12023), (471, 12092), (472, 12095), (473, 12098), (494, 12116), (496, 12119), (499, 12128), (515, 12176), (521, 12188), (524, 12197), (531, 12212), (534, 12218), (540, 12233),

Gene: ArV2_16 Start: 12791, Stop: 13762, Start Num: 58

Candidate Starts for ArV2_16:

(Start: 58 @12791 has 10 MA's), (152, 12935), (207, 13034), (211, 13046), (302, 13220), (319, 13247), (343, 13289), (393, 13403), (412, 13463), (424, 13481), (456, 13544), (474, 13592), (483, 13604), (521, 13703),

Gene: Archimedes_15 Start: 13707, Stop: 14570, Start Num: 74

Candidate Starts for Archimedes_15:

(Start: 68 @13698 has 6 MA's), (Start: 74 @13707 has 13 MA's), (119, 13767), (209, 13914), (217, 13941), (252, 13983), (292, 14052), (313, 14088), (365, 14178), (398, 14235), (399, 14238), (443, 14325), (462, 14361), (475, 14391), (480, 14400),

Gene: Archis_19 Start: 16004, Stop: 16864, Start Num: 72

Candidate Starts for Archis_19:

(Start: 68 @15998 has 6 MA's), (Start: 72 @16004 has 26 MA's), (Start: 85 @16019 has 1 MA's), (174, 16160), (215, 16241), (261, 16298), (267, 16307), (286, 16340), (352, 16448), (397, 16532), (427, 16604), (492, 16733), (503, 16760), (509, 16775),

Gene: Armstrong_16 Start: 11609, Stop: 12466, Start Num: 66

Candidate Starts for Armstrong_16:

(Start: 66 @11609 has 131 MA's), (87, 11648), (114, 11684), (133, 11714), (140, 11726), (204, 11822), (245, 11894), (291, 11969), (301, 11990), (404, 12158), (459, 12269),

Gene: Aroostook_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Aroostook_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Arroyo_18 Start: 13651, Stop: 14505, Start Num: 66

Candidate Starts for Arroyo_18:

(Start: 66 @13651 has 131 MA's), (114, 13726), (133, 13756), (138, 13765), (204, 13864), (209, 13879), (245, 13936), (301, 14032), (304, 14041), (328, 14074), (388, 14158), (399, 14179), (456, 14296), (516, 14437), (544, 14497),

Gene: Arti_40 Start: 28866, Stop: 29807, Start Num: 81

Candidate Starts for Arti_40:

(Start: 81 @28866 has 28 MA's), (137, 28953), (178, 29028), (214, 29094), (247, 29136), (282, 29193), (397, 29406), (405, 29433), (443, 29544), (493, 29676), (531, 29772),

Gene: Artiphact_30 Start: 17787, Stop: 18677, Start Num: 60

Candidate Starts for Artiphact_30:

(Start: 60 @17787 has 92 MA's), (254, 18111), (270, 18135), (284, 18168), (381, 18324), (408, 18390), (464, 18498), (521, 18618), (544, 18669), (545, 18672),

Gene: Asayake_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Asayake_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Asten_19 Start: 14959, Stop: 15816, Start Num: 60

Candidate Starts for Asten_19:

(Start: 60 @14959 has 92 MA's), (Start: 112 @15031 has 1 MA's), (124, 15049), (218, 15217), (245, 15244), (361, 15439), (378, 15457), (381, 15463), (405, 15517), (463, 15631), (471, 15652), (542, 15805), (544, 15808),

Gene: Atiba_22 Start: 15980, Stop: 17116, Start Num: 25

Candidate Starts for Atiba_22:

(Start: 25 @15980 has 250 MA's), (Start: 68 @16097 has 6 MA's), (130, 16187), (141, 16208), (154, 16229), (168, 16256), (302, 16511), (352, 16592), (385, 16667), (392, 16682), (443, 16793), (461, 16835), (493, 16928), (503, 16952), (541, 17045), (549, 17084), (550, 17102),

Gene: Attacne_15 Start: 11286, Stop: 12227, Start Num: 66

Candidate Starts for Attacne_15:

(Start: 61 @11277 has 4 MA's), (Start: 63 @11280 has 55 MA's), (Start: 66 @11286 has 131 MA's), (Start: 83 @11319 has 6 MA's), (93, 11337), (Start: 118 @11364 has 1 MA's), (124, 11373), (140, 11403), (142, 11406), (143, 11409), (152, 11421), (181, 11475), (200, 11505), (207, 11520), (211, 11532), (212, 11535), (213, 11538), (230, 11586), (238, 11604), (261, 11640), (265, 11646), (277, 11673), (278, 11676), (299, 11715), (302, 11724), (317, 11748), (323, 11757), (358, 11820), (362, 11832), (383, 11874), (385, 11877), (387, 11880), (404, 11931), (408, 11946), (423, 11967), (426, 11982), (433, 11997), (436, 12003), (472, 12075), (473, 12078), (494, 12096), (496, 12099), (499, 12108), (515, 12156), (521, 12168), (524, 12177), (531, 12192), (534, 12198), (540, 12213),

Gene: Attis_16 Start: 13903, Stop: 14751, Start Num: 107

Candidate Starts for Attis_16:

(Start: 107 @13903 has 33 MA's), (114, 13909), (196, 14044), (237, 14131), (266, 14164), (308, 14251), (311, 14254), (324, 14275), (338, 14299), (355, 14332), (459, 14554), (463, 14560), (534, 14722),

Gene: AuntGwenStacy_23 Start: 18613, Stop: 19611, Start Num: 50

Candidate Starts for AuntGwenStacy_23:

(Start: 50 @18613 has 6 MA's), (95, 18679), (152, 18769), (155, 18775), (180, 18823), (209, 18871), (217, 18898), (228, 18925), (235, 18928), (253, 18949), (282, 19000), (307, 19051), (315, 19060), (332, 19087), (368, 19162), (378, 19186), (427, 19276), (443, 19300), (444, 19303), (461, 19339), (481, 19393), (483, 19402), (498, 19444), (499, 19447), (535, 19528), (538, 19537), (549, 19582),

Gene: AvGardian_17 Start: 12793, Stop: 13647, Start Num: 66

Candidate Starts for AvGardian_17:

(Start: 66 @12793 has 131 MA's), (89, 12838), (114, 12868), (133, 12898), (138, 12907), (173, 12967), (204, 13006), (209, 13021), (245, 13078), (275, 13117), (301, 13174), (304, 13183), (328, 13216), (381, 13288), (393, 13315), (399, 13321), (437, 13414), (462, 13456), (509, 13567), (514, 13573), (516, 13579), (544, 13639),

Gene: Avocado_17 Start: 15733, Stop: 16914, Start Num: 26

Candidate Starts for Avocado_17:

(Start: 26 @15733 has 2 MA's), (Start: 68 @15862 has 6 MA's), (Start: 79 @15880 has 5 MA's), (116, 15931), (130, 15955), (154, 15997), (155, 16000), (166, 16021), (171, 16030), (189, 16066), (211,

16102), (213, 16108), (218, 16126), (247, 16177), (326, 16312), (358, 16366), (381, 16426), (443, 16591), (461, 16633), (487, 16711), (524, 16807), (526, 16810), (547, 16876),

Gene: Avocadoman_17 Start: 13206, Stop: 14060, Start Num: 66

Candidate Starts for Avocadoman_17:

(Start: 66 @13206 has 131 MA's), (114, 13281), (133, 13311), (138, 13320), (204, 13419), (209, 13434), (245, 13491), (301, 13587), (304, 13596), (328, 13629), (388, 13713), (456, 13851), (516, 13992), (544, 14052),

Gene: Avrafan_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Avrafan_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Axiom_20 Start: 14860, Stop: 15714, Start Num: 63

Candidate Starts for Axiom_20:

(Start: 63 @14860 has 55 MA's), (99, 14914), (124, 14950), (162, 15013), (212, 15097), (374, 15346), (378, 15355), (393, 15388), (411, 15436), (456, 15511), (471, 15550), (542, 15703), (544, 15706),

Gene: AylexOG_18 Start: 13465, Stop: 14319, Start Num: 66

Candidate Starts for AylexOG_18:

(Start: 66 @13465 has 131 MA's), (114, 13540), (133, 13570), (138, 13579), (204, 13678), (209, 13693), (245, 13750), (301, 13846), (304, 13855), (328, 13888), (388, 13972), (393, 13987), (509, 14239), (516, 14251), (544, 14311),

Gene: AyoTeo_22 Start: 15465, Stop: 16358, Start Num: 69

Candidate Starts for AyoTeo_22:

(Start: 69 @15465 has 33 MA's), (133, 15558), (138, 15567), (182, 15645), (209, 15696), (274, 15810), (276, 15819), (425, 16101), (426, 16104), (463, 16173), (471, 16194), (472, 16197), (503, 16257), (531, 16323),

Gene: Azula_20 Start: 16105, Stop: 16965, Start Num: 70

Candidate Starts for Azula_20:

(Start: 70 @16105 has 24 MA's), (Start: 85 @16120 has 1 MA's), (153, 16222), (174, 16261), (215, 16342), (279, 16426), (286, 16441), (352, 16549), (397, 16633), (425, 16699), (427, 16705), (454, 16744), (492, 16834), (509, 16876),

Gene: AzulaCat_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for AzulaCat_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: B3_16 Start: 12982, Stop: 13821, Start Num: 107

Candidate Starts for B3_16:

(105, 12979), (Start: 107 @12982 has 33 MA's), (Start: 109 @12985 has 2 MA's), (Start: 112 @12988 has 1 MA's), (124, 13006), (128, 13018), (139, 13039), (149, 13054), (155, 13066), (166, 13087), (173, 13099), (207, 13162), (227, 13222), (237, 13231), (268, 13279), (270, 13285), (314, 13378), (316,

13381), (328, 13402), (334, 13414), (398, 13534), (401, 13546), (424, 13600), (434, 13624), (443, 13633), (444, 13636), (455, 13654), (472, 13702), (495, 13741), (502, 13759), (517, 13795), (520, 13801),

Gene: BAJuniper_17 Start: 12793, Stop: 13644, Start Num: 66

Candidate Starts for BAJuniper_17:

(Start: 66 @12793 has 131 MA's), (89, 12838), (114, 12868), (133, 12898), (204, 13006), (209, 13021), (245, 13078), (301, 13174), (328, 13213), (388, 13297), (399, 13318), (429, 13393), (464, 13462), (482, 13504), (516, 13576), (544, 13636),

Gene: BEEST_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for BEEST_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: BFK20_ORF16 Start: 14538, Stop: 15356, Start Num: 123

Candidate Starts for BFK20_ORF16:

(111, 14520), (123, 14538), (148, 14580), (183, 14643), (211, 14694), (220, 14724), (246, 14757), (262, 14778), (354, 14955), (366, 14985), (380, 15003), (420, 15084), (445, 15135), (461, 15165), (463, 15171), (476, 15207), (504, 15270), (516, 15300), (522, 15312), (531, 15333),

Gene: BGlluviae_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for BGlluviae_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: BPs_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for BPs_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: BQuat_17 Start: 15468, Stop: 16640, Start Num: 25

Candidate Starts for BQuat_17:

(7, 15135), (Start: 25 @15468 has 250 MA's), (Start: 68 @15588 has 6 MA's), (Start: 79 @15606 has 5 MA's), (113, 15651), (116, 15657), (152, 15720), (171, 15756), (210, 15825), (211, 15828), (217, 15849), (247, 15903), (275, 15948), (292, 15978), (351, 16080), (358, 16092), (362, 16104), (368, 16122), (425, 16287), (443, 16317), (451, 16335), (461, 16359), (505, 16479), (541, 16569), (547, 16602),

Gene: BabyDaisy_18 Start: 13266, Stop: 14120, Start Num: 66

Candidate Starts for BabyDaisy_18:

(Start: 66 @13266 has 131 MA's), (89, 13311), (114, 13341), (133, 13371), (138, 13380), (209, 13494), (245, 13551), (399, 13794), (427, 13866), (459, 13923), (509, 14040), (516, 14052), (544, 14112),

Gene: BabyYoda_17 Start: 13134, Stop: 13988, Start Num: 66

Candidate Starts for BabyYoda_17:

(Start: 66 @13134 has 131 MA's), (89, 13179), (114, 13209), (133, 13239), (204, 13347), (209, 13362), (245, 13419), (301, 13515), (304, 13524), (328, 13557), (399, 13662), (401, 13671), (404, 13680),

(429, 13737), (437, 13755), (456, 13779), (509, 13908), (516, 13920), (544, 13980),

Gene: Bachaco_16 Start: 12667, Stop: 13521, Start Num: 66

Candidate Starts for Bachaco_16:

(Start: 66 @12667 has 131 MA's), (114, 12742), (133, 12772), (162, 12820), (204, 12880), (242, 12946), (245, 12952), (275, 12991), (301, 13048), (328, 13090), (381, 13162), (399, 13195), (404, 13213), (509, 13441), (514, 13447), (544, 13513),

Gene: Bachita_49 Start: 29142, Stop: 30023, Start Num: 74

Candidate Starts for Bachita_49:

(Start: 74 @29142 has 13 MA's), (Start: 110 @29190 has 2 MA's), (130, 29217), (170, 29289), (208, 29355), (217, 29385), (293, 29493), (351, 29586), (362, 29610), (367, 29625), (411, 29721), (443, 29769), (514, 29949), (530, 29985),

Gene: BaghaKamala_22 Start: 15980, Stop: 17116, Start Num: 25

Candidate Starts for BaghaKamala_22:

(Start: 25 @15980 has 250 MA's), (Start: 68 @16097 has 6 MA's), (130, 16187), (141, 16208), (154, 16229), (168, 16256), (302, 16511), (352, 16592), (385, 16667), (392, 16682), (443, 16793), (461, 16835), (493, 16928), (503, 16952), (541, 17045), (549, 17084), (550, 17102),

Gene: BananenDer11_20 Start: 16380, Stop: 17510, Start Num: 28

Candidate Starts for BananenDer11_20:

(Start: 28 @16380 has 36 MA's), (113, 16554), (152, 16620), (154, 16623), (168, 16650), (217, 16749), (275, 16851), (302, 16905), (323, 16935), (345, 16971), (346, 16974), (351, 16983), (383, 17058), (385, 17061), (399, 17097), (411, 17139), (425, 17157), (427, 17163), (443, 17187), (444, 17190), (461, 17229), (541, 17439), (549, 17478), (550, 17496),

Gene: Banquo_25 Start: 16992, Stop: 17822, Start Num: 96

Candidate Starts for Banquo_25:

(Start: 94 @16989 has 6 MA's), (Start: 96 @16992 has 5 MA's), (116, 17007), (135, 17037), (140, 17046), (154, 17070), (214, 17184), (215, 17190), (219, 17202), (224, 17214), (288, 17313), (343, 17400), (356, 17424), (401, 17508), (408, 17532), (409, 17535), (432, 17571), (472, 17652), (501, 17718), (512, 17742), (516, 17754), (518, 17757),

Gene: Bantam_29 Start: 26180, Stop: 27064, Start Num: 70

Candidate Starts for Bantam_29:

(Start: 70 @26180 has 24 MA's), (Start: 85 @26201 has 1 MA's), (170, 26327), (174, 26336), (246, 26456), (281, 26507), (286, 26516), (302, 26552), (351, 26624), (354, 26630), (411, 26759), (443, 26807), (475, 26882), (492, 26930),

Gene: Barco_18 Start: 15787, Stop: 16653, Start Num: 68

Candidate Starts for Barco_18:

(Start: 68 @15787 has 6 MA's), (Start: 72 @15793 has 26 MA's), (174, 15949), (215, 16030), (286, 16129), (352, 16237), (397, 16321), (427, 16393), (492, 16522), (503, 16549), (509, 16564),

Gene: Barkley26_17 Start: 15480, Stop: 16652, Start Num: 25

Candidate Starts for Barkley26_17:

(7, 15147), (Start: 25 @15480 has 250 MA's), (Start: 68 @15600 has 6 MA's), (Start: 79 @15618 has 5 MA's), (113, 15663), (116, 15669), (152, 15732), (171, 15768), (210, 15837), (211, 15840), (217, 15861), (247, 15915), (275, 15960), (292, 15990), (351, 16092), (358, 16104), (362, 16116), (368, 16134), (425, 16299), (443, 16329), (451, 16347), (461, 16371), (497, 16473), (505, 16491), (541, 16581), (547, 16614),

Gene: Barnstormer_15 Start: 12284, Stop: 13150, Start Num: 63

Candidate Starts for Barnstormer_15:

(Start: 63 @12284 has 55 MA's), (75, 12305), (142, 12410), (185, 12488), (307, 12695), (378, 12797), (456, 12947), (489, 13022), (516, 13082), (539, 13133),

Gene: BarrelRoll_22 Start: 16003, Stop: 17139, Start Num: 25

Candidate Starts for BarrelRoll_22:

(Start: 25 @16003 has 250 MA's), (Start: 68 @16120 has 6 MA's), (130, 16210), (141, 16231), (154, 16252), (168, 16279), (302, 16534), (352, 16615), (385, 16690), (392, 16705), (443, 16816), (461, 16858), (493, 16951), (503, 16975), (541, 17068), (549, 17107), (550, 17125),

Gene: BarryBee_21 Start: 14969, Stop: 15826, Start Num: 60

Candidate Starts for BarryBee_21:

(Start: 60 @14969 has 92 MA's), (Start: 112 @15041 has 1 MA's), (124, 15059), (218, 15227), (245, 15254), (361, 15449), (378, 15467), (381, 15473), (405, 15527), (463, 15641), (471, 15662), (542, 15815), (544, 15818),

Gene: BartholomewSD_21 Start: 15007, Stop: 15861, Start Num: 63

Candidate Starts for BartholomewSD_21:

(Start: 63 @15007 has 55 MA's), (99, 15061), (124, 15097), (378, 15502), (542, 15850), (544, 15853),

Gene: BatStarr_18 Start: 16940, Stop: 17767, Start Num: 115

Candidate Starts for BatStarr_18:

(Start: 115 @16940 has 37 MA's), (163, 17015), (221, 17135), (223, 17141), (275, 17207), (279, 17219), (308, 17276), (314, 17285), (338, 17321), (342, 17330), (355, 17351), (399, 17435), (429, 17510), (442, 17531), (500, 17654), (512, 17687),

Gene: Bauer_20 Start: 15182, Stop: 16024, Start Num: 100

Candidate Starts for Bauer_20:

(Start: 58 @15113 has 10 MA's), (64, 15122), (75, 15140), (76, 15143), (Start: 83 @15158 has 6 MA's), (Start: 100 @15182 has 5 MA's), (101, 15185), (140, 15239), (157, 15269), (161, 15275), (181, 15314), (198, 15341), (200, 15344), (207, 15359), (230, 15407), (256, 15449), (265, 15467), (285, 15512), (302, 15548), (304, 15551), (319, 15575), (371, 15668), (399, 15713), (408, 15746), (424, 15776), (436, 15803), (441, 15815), (451, 15836), (467, 15863), (494, 15893), (513, 15947), (515, 15953), (521, 15965),

Gene: BaxterFox_17 Start: 16279, Stop: 17106, Start Num: 115

Candidate Starts for BaxterFox_17:

(Start: 115 @16279 has 37 MA's), (163, 16354), (221, 16474), (223, 16480), (275, 16546), (279, 16558), (308, 16615), (314, 16624), (338, 16660), (342, 16669), (355, 16690), (399, 16774), (429, 16849), (442, 16870), (500, 16993), (512, 17026),

Gene: BeardedLady_20 Start: 15240, Stop: 16097, Start Num: 60

Candidate Starts for BeardedLady_20:

(Start: 60 @15240 has 92 MA's), (Start: 112 @15312 has 1 MA's), (124, 15330), (142, 15360), (162, 15393), (218, 15498), (245, 15525), (302, 15627), (331, 15672), (378, 15738), (381, 15744), (405, 15798), (408, 15810), (463, 15912), (466, 15924), (471, 15933), (542, 16086), (544, 16089),

Gene: Beenie_19 Start: 16864, Stop: 17706, Start Num: 106

Candidate Starts for Beenie_19:

(Start: 106 @16864 has 19 MA's), (Start: 115 @16873 has 37 MA's), (143, 16915), (163, 16948), (171, 16963), (201, 17011), (217, 17059), (223, 17074), (225, 17080), (262, 17119), (291, 17173), (311, 17212), (314, 17218), (338, 17254), (355, 17284), (361, 17293), (429, 17449), (512, 17626),

Gene: Beezoo_22 Start: 16027, Stop: 17163, Start Num: 25

Candidate Starts for Beezoo_22:

(Start: 25 @16027 has 250 MA's), (Start: 68 @16144 has 6 MA's), (130, 16234), (141, 16255), (154, 16276), (168, 16303), (302, 16558), (352, 16639), (385, 16714), (392, 16729), (443, 16840), (461, 16882), (493, 16975), (503, 16999), (541, 17092), (549, 17131), (550, 17149),

Gene: Begonia_19 Start: 16271, Stop: 17131, Start Num: 72

Candidate Starts for Begonia_19:

(Start: 68 @16265 has 6 MA's), (Start: 72 @16271 has 26 MA's), (174, 16427), (215, 16508), (286, 16607), (352, 16715), (397, 16799), (427, 16871), (492, 17000), (509, 17042),

Gene: Bella96_22 Start: 15947, Stop: 17083, Start Num: 25

Candidate Starts for Bella96_22:

(Start: 25 @15947 has 250 MA's), (Start: 68 @16064 has 6 MA's), (130, 16154), (141, 16175), (154, 16196), (168, 16223), (275, 16424), (302, 16478), (352, 16559), (385, 16634), (392, 16649), (461, 16802), (493, 16895), (503, 16919), (541, 17012), (549, 17051), (550, 17069),

Gene: BellaJr_20 Start: 16170, Stop: 16835, Start Num: 207

Candidate Starts for BellaJr_20:

(Start: 58 @15924 has 10 MA's), (Start: 100 @15993 has 5 MA's), (122, 16020), (152, 16071), (161, 16086), (207, 16170), (265, 16278), (278, 16308), (285, 16323), (299, 16350), (302, 16359), (319, 16386), (371, 16479), (379, 16494), (399, 16524), (408, 16557), (426, 16593), (429, 16599), (441, 16626), (454, 16653), (467, 16674), (492, 16698), (494, 16704), (499, 16716), (515, 16764), (518, 16770), (521, 16776),

Gene: Belladonna_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Belladonna_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: BelmontSKP_18 Start: 13450, Stop: 14304, Start Num: 66

Candidate Starts for BelmontSKP_18:

(Start: 66 @13450 has 131 MA's), (114, 13525), (133, 13555), (138, 13564), (204, 13663), (209, 13678), (245, 13735), (301, 13831), (304, 13840), (388, 13957), (399, 13978), (456, 14095), (516, 14236), (544, 14296),

Gene: Bengal_17 Start: 13041, Stop: 13895, Start Num: 66

Candidate Starts for Bengal_17:

(Start: 66 @13041 has 131 MA's), (114, 13116), (133, 13146), (138, 13155), (204, 13254), (209, 13269), (245, 13326), (301, 13422), (304, 13431), (328, 13464), (388, 13548), (399, 13569), (456, 13686), (516, 13827), (544, 13887),

Gene: Benry_20 Start: 13807, Stop: 14670, Start Num: 67

Candidate Starts for Benry_20:

(Start: 67 @13807 has 11 MA's), (Start: 92 @13849 has 1 MA's), (124, 13888), (133, 13903), (178, 13984), (182, 13990), (219, 14059), (274, 14125), (304, 14194), (310, 14203), (328, 14233), (340, 14251), (404, 14368), (436, 14437), (452, 14458), (454, 14461), (463, 14485), (514, 14596), (515, 14599), (540, 14656), (542, 14659),

Gene: Bern_22 Start: 15975, Stop: 17111, Start Num: 25

Candidate Starts for Bern_22:

(Start: 25 @15975 has 250 MA's), (Start: 68 @16092 has 6 MA's), (141, 16203), (154, 16224), (168, 16251), (275, 16452), (302, 16506), (352, 16587), (385, 16662), (392, 16677), (443, 16788), (461, 16830), (493, 16923), (503, 16947), (541, 17040), (549, 17079), (550, 17097),

Gene: Bernstein_16 Start: 11669, Stop: 12526, Start Num: 66

Candidate Starts for Bernstein_16:

(Start: 66 @11669 has 131 MA's), (87, 11708), (114, 11744), (133, 11774), (140, 11786), (204, 11882), (245, 11954), (291, 12029), (301, 12050), (404, 12218), (459, 12329),

Gene: BiPauneto_43 Start: 28641, Stop: 29561, Start Num: 86

Candidate Starts for BiPauneto_43:

(Start: 86 @28641 has 9 MA's), (137, 28722), (163, 28767), (205, 28836), (302, 29004), (356, 29088), (376, 29139), (397, 29172), (469, 29370), (476, 29388), (493, 29430), (529, 29520), (531, 29526), (540, 29547),

Gene: Bialota_18 Start: 16952, Stop: 17779, Start Num: 115

Candidate Starts for Bialota_18:

(Start: 115 @16952 has 37 MA's), (151, 17006), (166, 17033), (221, 17147), (223, 17153), (235, 17168), (311, 17291), (338, 17333), (342, 17342), (399, 17447), (429, 17522), (442, 17543), (500, 17666), (512, 17699),

Gene: BigAnti_23 Start: 21568, Stop: 22392, Start Num: 132

Candidate Starts for BigAnti_23:

(132, 21568), (136, 21577), (146, 21595), (150, 21604), (183, 21664), (194, 21685), (206, 21700), (209, 21709), (234, 21766), (240, 21775), (265, 21820), (271, 21832), (283, 21856), (287, 21862), (303, 21901), (309, 21910), (364, 22003), (387, 22033), (397, 22063), (453, 22171), (472, 22225), (493, 22261), (515, 22321),

Gene: Binglebops_18 Start: 15554, Stop: 16696, Start Num: 25

Candidate Starts for Binglebops_18:

(Start: 25 @15554 has 250 MA's), (Start: 68 @15677 has 6 MA's), (130, 15767), (168, 15836), (217, 15935), (218, 15938), (275, 16037), (352, 16172), (443, 16373), (461, 16415), (462, 16418), (493, 16508), (503, 16532), (541, 16625), (549, 16664), (550, 16682),

Gene: Bimmel_60 Start: 37721, Stop: 38719, Start Num: 33

Candidate Starts for Bimmel_60:

(Start: 33 @37721 has 5 MA's), (34, 37733), (Start: 69 @37814 has 33 MA's), (Start: 115 @37889 has 37 MA's), (133, 37916), (180, 38003), (242, 38102), (280, 38162), (315, 38231), (339, 38267), (378, 38327), (388, 38345), (389, 38348), (454, 38504), (472, 38555), (516, 38651), (518, 38654),

Gene: Bipper_23 Start: 18745, Stop: 19743, Start Num: 50

Candidate Starts for Bipper_23:

(Start: 50 @18745 has 6 MA's), (95, 18811), (101, 18820), (141, 18883), (152, 18901), (155, 18907), (217, 19030), (228, 19057), (235, 19060), (253, 19081), (307, 19183), (315, 19192), (332, 19219), (368, 19294), (396, 19336), (404, 19363), (427, 19408), (443, 19432), (444, 19435), (463, 19477), (481, 19525), (483, 19534), (498, 19576), (503, 19588), (528, 19645), (549, 19714),

Gene: Bjaner7_16 Start: 13903, Stop: 14751, Start Num: 107

Candidate Starts for Bjaner7_16:

(Start: 107 @13903 has 33 MA's), (114, 13909), (196, 14044), (237, 14131), (266, 14164), (308, 14251), (311, 14254), (324, 14275), (338, 14299), (355, 14332), (459, 14554), (463, 14560), (534, 14722),

Gene: BlackSpider_18 Start: 14770, Stop: 15681, Start Num: 58

Candidate Starts for BlackSpider_18:

(3, 14101), (5, 14233), (11, 14440), (Start: 58 @14770 has 10 MA's), (Start: 100 @14839 has 5 MA's), (122, 14866), (152, 14917), (157, 14926), (161, 14932), (207, 15016), (265, 15124), (278, 15154), (285, 15169), (299, 15196), (302, 15205), (319, 15232), (371, 15325), (379, 15340), (399, 15370), (408, 15403), (426, 15439), (429, 15445), (441, 15472), (454, 15499), (492, 15544), (494, 15550), (499, 15562), (515, 15610), (518, 15616), (521, 15622),

Gene: Blett_23 Start: 13718, Stop: 14578, Start Num: 69

Candidate Starts for Blett_23:

(Start: 69 @13718 has 33 MA's), (89, 13754), (Start: 92 @13757 has 1 MA's), (Start: 112 @13778 has 1 MA's), (Start: 115 @13784 has 37 MA's), (124, 13796), (131, 13805), (133, 13811), (171, 13877), (209, 13934), (219, 13967), (286, 14060), (300, 14087), (376, 14210), (378, 14216), (393, 14249), (427, 14327), (540, 14564), (542, 14567),

Gene: BlingBling_18 Start: 15793, Stop: 16653, Start Num: 72

Candidate Starts for BlingBling_18:

(Start: 68 @15787 has 6 MA's), (Start: 72 @15793 has 26 MA's), (174, 15949), (215, 16030), (286, 16129), (352, 16237), (397, 16321), (427, 16393), (492, 16522), (503, 16549), (509, 16564),

Gene: Blino_18 Start: 15761, Stop: 16621, Start Num: 72

Candidate Starts for Blino_18:

(Start: 68 @15755 has 6 MA's), (Start: 72 @15761 has 26 MA's), (174, 15917), (215, 15998), (286, 16097), (352, 16205), (397, 16289), (425, 16355), (427, 16361), (492, 16490), (509, 16532),

Gene: Blizzard_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Blizzard_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: BlueNGold_99 Start: 59080, Stop: 60015, Start Num: 71

Candidate Starts for BlueNGold_99:

(Start: 71 @59080 has 6 MA's), (88, 59095), (Start: 94 @59101 has 6 MA's), (98, 59107), (166, 59224), (168, 59227), (197, 59278), (213, 59314), (301, 59449), (322, 59485), (345, 59515), (448, 59767), (463, 59812), (473, 59842), (480, 59848), (487, 59875), (503, 59914), (534, 59983),

Gene: Blueberry_20 Start: 16105, Stop: 16965, Start Num: 70

Candidate Starts for Blueberry_20:

(Start: 70 @16105 has 24 MA's), (Start: 85 @16120 has 1 MA's), (153, 16222), (174, 16261), (215, 16342), (279, 16426), (286, 16441), (352, 16549), (397, 16633), (425, 16699), (427, 16705), (454, 16744), (492, 16834), (509, 16876),

Gene: Bobquesha_24 Start: 17234, Stop: 18367, Start Num: 25

Candidate Starts for Bobquesha_24:

(Start: 25 @17234 has 250 MA's), (32, 17252), (49, 17324), (Start: 68 @17354 has 6 MA's), (130, 17444), (134, 17453), (154, 17486), (166, 17510), (218, 17615), (302, 17768), (348, 17837), (351, 17843), (411, 17996), (425, 18014), (443, 18044), (461, 18086), (462, 18089), (535, 18281), (541, 18296), (549, 18335), (550, 18353),

Gene: Boiiii_22 Start: 16053, Stop: 17189, Start Num: 25

Candidate Starts for Boiiii_22:

(Start: 25 @16053 has 250 MA's), (Start: 68 @16170 has 6 MA's), (130, 16260), (141, 16281), (154, 16302), (168, 16329), (302, 16584), (352, 16665), (385, 16740), (392, 16755), (443, 16866), (461, 16908), (493, 17001), (503, 17025), (541, 17118), (549, 17157), (550, 17175),

Gene: Boilgate_19 Start: 16429, Stop: 17568, Start Num: 21

Candidate Starts for Boilgate_19:

(Start: 21 @16429 has 1 MA's), (32, 16453), (49, 16525), (Start: 68 @16555 has 6 MA's), (Start: 72 @16561 has 26 MA's), (113, 16618), (152, 16684), (154, 16687), (166, 16711), (175, 16729), (199, 16768), (215, 16807), (217, 16813), (231, 16846), (275, 16915), (302, 16969), (334, 17017), (346, 17035), (348, 17038), (351, 17044), (427, 17221), (443, 17245), (461, 17287), (462, 17290), (472, 17320), (481, 17341), (493, 17380), (498, 17392), (499, 17395), (535, 17482), (541, 17497), (549, 17536), (550, 17554),

Gene: Bonum_43 Start: 29225, Stop: 30142, Start Num: 83

Candidate Starts for Bonum_43:

(Start: 83 @29225 has 6 MA's), (137, 29306), (158, 29342), (247, 29489), (376, 29723), (395, 29750), (410, 29801), (443, 29894), (493, 30011), (531, 30107), (534, 30113), (540, 30128),

Gene: Boopy_100 Start: 59092, Stop: 60027, Start Num: 71

Candidate Starts for Boopy_100:

(Start: 71 @59092 has 6 MA's), (88, 59107), (Start: 94 @59113 has 6 MA's), (98, 59119), (166, 59236), (168, 59239), (197, 59290), (213, 59326), (301, 59461), (322, 59497), (345, 59527), (448, 59779), (463, 59824), (473, 59854), (480, 59860), (487, 59887), (503, 59926), (534, 59995),

Gene: BoostSeason_18 Start: 13915, Stop: 15042, Start Num: 28

Candidate Starts for BoostSeason_18:

(Start: 28 @13915 has 36 MA's), (32, 13924), (Start: 68 @14026 has 6 MA's), (130, 14116), (154, 14158), (168, 14185), (215, 14278), (217, 14284), (253, 14347), (275, 14386), (302, 14440), (351, 14518), (372, 14569), (383, 14593), (411, 14671), (425, 14689), (443, 14719), (461, 14761), (462, 14764), (503, 14878), (535, 14956), (541, 14971), (549, 15010), (550, 15028),

Gene: Bosnia_18 Start: 16940, Stop: 17767, Start Num: 115

Candidate Starts for Bosnia_18:

(Start: 115 @16940 has 37 MA's), (163, 17015), (221, 17135), (223, 17141), (275, 17207), (279, 17219), (308, 17276), (314, 17285), (338, 17321), (342, 17330), (355, 17351), (399, 17435), (429, 17510), (442, 17531), (500, 17654), (512, 17687),

Gene: Bovely_19 Start: 14999, Stop: 15856, Start Num: 60

Candidate Starts for Bovely_19:

(Start: 60 @14999 has 92 MA's), (Start: 112 @15071 has 1 MA's), (124, 15089), (142, 15119), (162, 15152), (218, 15257), (245, 15284), (302, 15386), (331, 15431), (378, 15497), (381, 15503), (405, 15557), (408, 15569), (463, 15671), (466, 15683), (471, 15692), (542, 15845), (544, 15848),

Gene: Bowden_20 Start: 14939, Stop: 15793, Start Num: 63

Candidate Starts for Bowden_20:

(Start: 63 @14939 has 55 MA's), (99, 14993), (124, 15029), (274, 15260), (378, 15434), (542, 15782), (544, 15785),

Gene: BoyNamedSue_18 Start: 16952, Stop: 17779, Start Num: 115

Candidate Starts for BoyNamedSue_18:

(Start: 115 @16952 has 37 MA's), (138, 16985), (151, 17006), (166, 17033), (221, 17147), (223, 17153), (235, 17168), (311, 17291), (338, 17333), (342, 17342), (399, 17447), (429, 17522), (442, 17543), (500, 17666), (512, 17699),

Gene: Brahms_16 Start: 11609, Stop: 12466, Start Num: 66

Candidate Starts for Brahms_16:

(Start: 66 @11609 has 131 MA's), (87, 11648), (114, 11684), (133, 11714), (140, 11726), (204, 11822), (245, 11894), (291, 11969), (301, 11990), (404, 12158), (459, 12269),

Gene: Bramble_31 Start: 17584, Stop: 18468, Start Num: 62

Candidate Starts for Bramble_31:

(29, 17485), (Start: 62 @17584 has 21 MA's), (126, 17680), (138, 17701), (185, 17785), (187, 17791), (274, 17932), (374, 18100), (408, 18181), (424, 18211), (464, 18289), (470, 18301), (471, 18304), (480, 18322), (509, 18388), (513, 18391), (514, 18394), (544, 18460), (545, 18463),

Gene: Brataylor_20 Start: 14985, Stop: 15842, Start Num: 60

Candidate Starts for Brataylor_20:

(Start: 60 @14985 has 92 MA's), (Start: 112 @15057 has 1 MA's), (218, 15243), (245, 15270), (331, 15417), (374, 15474), (376, 15477), (378, 15483), (381, 15489), (436, 15612), (471, 15678), (542, 15831), (544, 15834),

Gene: Braxoaddie_44 Start: 30405, Stop: 31331, Start Num: 79

Candidate Starts for Braxoaddie_44:

(Start: 79 @30405 has 5 MA's), (Start: 110 @30441 has 2 MA's), (178, 30558), (205, 30597), (211, 30615), (247, 30666), (302, 30765), (351, 30840), (356, 30849), (390, 30924), (397, 30945), (443, 31083), (461, 31119), (475, 31158), (493, 31200), (515, 31263), (531, 31296),

Gene: BrayBeast_17 Start: 13162, Stop: 14070, Start Num: 58

Candidate Starts for BrayBeast_17:

(Start: 58 @13162 has 10 MA's), (Start: 100 @13231 has 5 MA's), (140, 13288), (161, 13321), (181, 13360), (200, 13390), (207, 13405), (230, 13453), (278, 13543), (285, 13558), (302, 13594), (319, 13621), (323, 13627), (371, 13714), (399, 13759), (424, 13822), (426, 13828), (441, 13861), (454, 13888), (467, 13909), (492, 13933), (494, 13939), (499, 13951), (513, 13993), (515, 13999), (518, 14005), (521, 14011),

Gene: BroPlease_20 Start: 15689, Stop: 16543, Start Num: 63

Candidate Starts for BroPlease_20:

(18, 15533), (19, 15536), (Start: 63 @15689 has 55 MA's), (138, 15803), (162, 15842), (219, 15950), (264, 15992), (289, 16046), (458, 16349), (542, 16532), (544, 16535), (545, 16538),

Gene: BruceB_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for BruceB_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: BruceLethal_15 Start: 11290, Stop: 12237, Start Num: 66

Candidate Starts for BruceLethal_15:

(Start: 56 @11275 has 4 MA's), (Start: 61 @11281 has 4 MA's), (Start: 66 @11290 has 131 MA's), (Start: 83 @11323 has 6 MA's), (93, 11341), (95, 11344), (Start: 100 @11350 has 5 MA's), (Start: 118 @11374 has 1 MA's), (124, 11383), (140, 11413), (152, 11431), (157, 11440), (181, 11485), (200, 11515), (207, 11530), (211, 11542), (213, 11548), (230, 11596), (238, 11614), (257, 11641), (261, 11650), (265, 11656), (277, 11683), (290, 11707), (317, 11758), (323, 11767), (358, 11830), (362, 11842), (383, 11884), (385, 11887), (387, 11890), (404, 11941), (408, 11956), (423, 11977), (426,

11992), (433, 12007), (436, 12013), (472, 12085), (473, 12088), (494, 12106), (496, 12109), (499, 12118), (515, 12166), (521, 12178), (524, 12187), (531, 12202), (534, 12208), (540, 12223),

Gene: BrutonGaster_35 Start: 25054, Stop: 25935, Start Num: 74

Candidate Starts for BrutonGaster_35:

(48, 25015), (Start: 63 @25036 has 55 MA's), (Start: 74 @25054 has 13 MA's), (Start: 110 @25102 has 2 MA's), (170, 25201), (249, 25333), (315, 25444), (351, 25498), (362, 25522), (367, 25537), (411, 25633), (443, 25681), (454, 25699), (509, 25846), (529, 25894), (530, 25897),

Gene: BryanRecycles_20 Start: 15156, Stop: 16013, Start Num: 60

Candidate Starts for BryanRecycles_20:

(Start: 60 @15156 has 92 MA's), (Start: 112 @15228 has 1 MA's), (124, 15246), (162, 15309), (218, 15414), (245, 15441), (274, 15477), (302, 15543), (331, 15588), (378, 15654), (381, 15660), (408, 15726), (427, 15765), (436, 15783), (466, 15840), (480, 15867), (542, 16002), (544, 16005),

Gene: Bryler_21 Start: 15211, Stop: 16350, Start Num: 25

Candidate Starts for Bryler_21:

(Start: 25 @15211 has 250 MA's), (Start: 68 @15331 has 6 MA's), (130, 15421), (168, 15490), (275, 15691), (392, 15916), (410, 15976), (425, 15997), (461, 16069), (462, 16072), (463, 16075), (493, 16162), (503, 16186), (535, 16264), (541, 16279), (549, 16318), (550, 16336),

Gene: BubbaBear_17 Start: 13131, Stop: 13985, Start Num: 66

Candidate Starts for BubbaBear_17:

(Start: 66 @13131 has 131 MA's), (114, 13206), (133, 13236), (138, 13245), (204, 13344), (245, 13416), (301, 13512), (304, 13521), (328, 13554), (388, 13638), (509, 13905), (516, 13917), (544, 13977),

Gene: Buggaboo_41 Start: 29704, Stop: 30621, Start Num: 83

Candidate Starts for Buggaboo_41:

(Start: 83 @29704 has 6 MA's), (137, 29785), (158, 29821), (209, 29911), (247, 29968), (376, 30202), (395, 30229), (410, 30280), (443, 30373), (493, 30490), (531, 30586), (534, 30592), (540, 30607),

Gene: Buldak_16 Start: 13043, Stop: 13900, Start Num: 66

Candidate Starts for Buldak_16:

(Start: 66 @13043 has 131 MA's), (89, 13085), (133, 13145), (185, 13238), (187, 13244), (209, 13268), (216, 13292), (219, 13301), (242, 13319), (245, 13325), (301, 13421), (304, 13430), (342, 13484), (349, 13493), (381, 13538), (393, 13565), (411, 13613), (437, 13664), (498, 13787), (508, 13817), (514, 13826), (542, 13889),

Gene: Bunnybear_17 Start: 16957, Stop: 17784, Start Num: 115

Candidate Starts for Bunnybear_17:

(Start: 115 @16957 has 37 MA's), (221, 17152), (223, 17158), (235, 17173), (279, 17236), (308, 17293), (314, 17302), (338, 17338), (342, 17347), (399, 17452), (512, 17704),

Gene: Burritobowl_17 Start: 13209, Stop: 14063, Start Num: 66

Candidate Starts for Burritobowl_17:

(Start: 66 @13209 has 131 MA's), (114, 13284), (133, 13314), (138, 13323), (204, 13422), (209, 13437), (245, 13494), (301, 13590), (304, 13599), (328, 13632), (388, 13716), (399, 13737), (456, 13854), (516, 13995), (544, 14055),

Gene: Bush_23 Start: 13699, Stop: 14559, Start Num: 69

Candidate Starts for Bush_23:

(Start: 69 @13699 has 33 MA's), (89, 13735), (Start: 92 @13738 has 1 MA's), (Start: 112 @13759 has 1 MA's), (Start: 115 @13765 has 37 MA's), (124, 13777), (133, 13792), (171, 13858), (185, 13885), (209, 13915), (219, 13948), (286, 14041), (300, 14068), (376, 14191), (378, 14197), (393, 14230), (427, 14308), (540, 14545), (542, 14548),

Gene: C3PO_30 Start: 27616, Stop: 28482, Start Num: 66

Candidate Starts for C3PO_30:

(Start: 66 @27616 has 131 MA's), (82, 27640), (Start: 118 @27685 has 1 MA's), (152, 27745), (173, 27784), (219, 27880), (327, 28042), (348, 28075), (395, 28150), (402, 28174), (454, 28249), (479, 28315), (493, 28351), (505, 28378), (525, 28435),

Gene: CLED96_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for CLED96_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: CREW_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for CREW_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Caelum_20 Start: 15485, Stop: 16339, Start Num: 63

Candidate Starts for Caelum_20:

(Start: 63 @15485 has 55 MA's), (73, 15503), (Start: 107 @15551 has 33 MA's), (124, 15575), (138, 15599), (147, 15614), (218, 15743), (337, 15923), (376, 15974), (378, 15980), (408, 16052), (471, 16175), (489, 16211), (518, 16274), (542, 16328), (544, 16331),

Gene: Cain_21 Start: 15199, Stop: 16338, Start Num: 25

Candidate Starts for Cain_21:

(Start: 25 @15199 has 250 MA's), (Start: 68 @15319 has 6 MA's), (130, 15409), (168, 15478), (275, 15679), (392, 15904), (410, 15964), (425, 15985), (461, 16057), (462, 16060), (463, 16063), (493, 16150), (503, 16174), (535, 16252), (541, 16267), (549, 16306), (550, 16324),

Gene: Caliburn_19 Start: 14973, Stop: 15830, Start Num: 60

Candidate Starts for Caliburn_19:

(Start: 60 @14973 has 92 MA's), (Start: 112 @15045 has 1 MA's), (124, 15063), (142, 15093), (162, 15126), (218, 15231), (245, 15258), (302, 15360), (331, 15405), (378, 15471), (381, 15477), (405, 15531), (408, 15543), (463, 15645), (466, 15657), (471, 15666), (542, 15819), (544, 15822),

Gene: CallaLilly_22 Start: 15974, Stop: 17110, Start Num: 25

Candidate Starts for CallaLilly_22:

(Start: 25 @15974 has 250 MA's), (Start: 68 @16091 has 6 MA's), (130, 16181), (141, 16202), (154, 16223), (168, 16250), (302, 16505), (352, 16586), (385, 16661), (392, 16676), (443, 16787), (461, 16829), (493, 16922), (503, 16946), (541, 17039), (549, 17078), (550, 17096),

Gene: Cambiare_18 Start: 16198, Stop: 17379, Start Num: 26

Candidate Starts for Cambiare_18:

(Start: 26 @16198 has 2 MA's), (Start: 68 @16327 has 6 MA's), (Start: 79 @16345 has 5 MA's), (116, 16396), (130, 16420), (154, 16462), (155, 16465), (166, 16486), (171, 16495), (189, 16531), (211,

16567), (213, 16573), (218, 16591), (247, 16642), (326, 16777), (358, 16831), (381, 16891), (443, 17056), (461, 17098), (487, 17176), (524, 17272), (526, 17275), (547, 17341),

Gene: Camri_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Camri_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: CanFranMach_18 Start: 13135, Stop: 13989, Start Num: 65

Candidate Starts for CanFranMach_18:

(Start: 65 @13135 has 1 MA's), (89, 13180), (114, 13210), (133, 13240), (204, 13348), (245, 13420), (301, 13516), (304, 13525), (328, 13558), (381, 13630), (388, 13642), (393, 13657), (508, 13906), (516, 13921), (544, 13981),

Gene: Capricorn_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Capricorn_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: CaptainKirk2_18 Start: 15817, Stop: 16677, Start Num: 72

Candidate Starts for CaptainKirk2_18:

(Start: 68 @15811 has 6 MA's), (Start: 72 @15817 has 26 MA's), (174, 15973), (215, 16054), (286, 16153), (352, 16261), (397, 16345), (425, 16411), (454, 16456), (492, 16546), (509, 16588),

Gene: Cardigan_45 Start: 29891, Stop: 30787, Start Num: 59

Candidate Starts for Cardigan_45:

(Start: 59 @29891 has 3 MA's), (130, 29978), (166, 30044), (174, 30059), (284, 30236), (315, 30293), (351, 30347), (362, 30371), (406, 30470), (411, 30488), (443, 30536), (454, 30554), (463, 30578), (529, 30746),

Gene: CarolAnn_18 Start: 15760, Stop: 16620, Start Num: 72

Candidate Starts for CarolAnn_18:

(Start: 68 @15754 has 6 MA's), (Start: 72 @15760 has 26 MA's), (174, 15916), (215, 15997), (286, 16096), (352, 16204), (397, 16288), (425, 16354), (427, 16360), (492, 16489), (509, 16531),

Gene: Caron_15 Start: 12326, Stop: 13192, Start Num: 63

Candidate Starts for Caron_15:

(Start: 63 @12326 has 55 MA's), (75, 12347), (142, 12452), (185, 12530), (307, 12737), (378, 12839), (472, 13028), (489, 13064), (516, 13124), (539, 13175),

Gene: Carrillo_24 Start: 13672, Stop: 14532, Start Num: 69

Candidate Starts for Carrillo_24:

(Start: 69 @13672 has 33 MA's), (89, 13708), (Start: 92 @13711 has 1 MA's), (Start: 112 @13732 has 1 MA's), (Start: 115 @13738 has 37 MA's), (124, 13750), (133, 13765), (171, 13831), (185, 13858), (209, 13888), (219, 13921), (286, 14014), (300, 14041), (376, 14164), (378, 14170), (393, 14203), (427, 14281), (540, 14518), (542, 14521),

Gene: CaseJules_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for CaseJules_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Cashington_17 Start: 13058, Stop: 13912, Start Num: 66

Candidate Starts for Cashington_17:

(Start: 66 @13058 has 131 MA's), (114, 13133), (133, 13163), (138, 13172), (204, 13271), (209, 13286), (245, 13343), (301, 13439), (304, 13448), (328, 13481), (388, 13565), (399, 13586), (456, 13703), (516, 13844), (544, 13904),

Gene: CassieYates_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for CassieYates_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Cassini_18 Start: 15074, Stop: 15916, Start Num: 100

Candidate Starts for Cassini_18:

(Start: 58 @15005 has 10 MA's), (Start: 100 @15074 has 5 MA's), (122, 15101), (152, 15152), (157, 15161), (161, 15167), (207, 15251), (265, 15359), (278, 15389), (285, 15404), (299, 15431), (302, 15440), (319, 15467), (361, 15545), (371, 15560), (399, 15605), (408, 15638), (426, 15674), (441, 15707), (454, 15734), (467, 15755), (492, 15779), (494, 15785), (499, 15797), (513, 15839), (515, 15845), (518, 15851), (521, 15857), (536, 15890),

Gene: Catfish_21 Start: 17616, Stop: 18467, Start Num: 94

Candidate Starts for Catfish_21:

(Start: 94 @17616 has 6 MA's), (Start: 96 @17619 has 5 MA's), (113, 17640), (135, 17676), (154, 17709), (189, 17778), (214, 17823), (224, 17853), (305, 17988), (325, 18015), (343, 18039), (354, 18060), (409, 18180), (454, 18246), (457, 18252), (537, 18447),

Gene: Cedasite_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Cedasite_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Celaena_16 Start: 12603, Stop: 13457, Start Num: 66

Candidate Starts for Celaena_16:

(Start: 66 @12603 has 131 MA's), (114, 12678), (133, 12708), (162, 12756), (204, 12816), (209, 12831), (245, 12888), (275, 12927), (301, 12984), (328, 13026), (381, 13098), (399, 13131), (404, 13149), (509, 13377), (514, 13383), (544, 13449),

Gene: Celery_22 Start: 15630, Stop: 16484, Start Num: 62

Candidate Starts for Celery_22:

(Start: 62 @15630 has 21 MA's), (84, 15666), (Start: 112 @15702 has 1 MA's), (124, 15720), (138, 15744), (188, 15837), (218, 15888), (297, 16002), (302, 16017), (304, 16020), (331, 16062), (361, 16107), (374, 16116), (376, 16119), (378, 16125), (390, 16149), (531, 16449), (542, 16473), (544, 16476),

Gene: Celeste_19 Start: 14977, Stop: 15834, Start Num: 60

Candidate Starts for Celeste_19:

(Start: 60 @14977 has 92 MA's), (Start: 112 @15049 has 1 MA's), (162, 15130), (218, 15235), (245, 15262), (374, 15466), (376, 15469), (378, 15475), (408, 15547), (436, 15604), (471, 15670), (542, 15823), (544, 15826),

Gene: Celia_19 Start: 15416, Stop: 16273, Start Num: 63

Candidate Starts for Celia_19:

(Start: 63 @15416 has 55 MA's), (Start: 92 @15467 has 1 MA's), (Start: 112 @15488 has 1 MA's), (124, 15506), (138, 15530), (162, 15569), (381, 15920), (393, 15947), (408, 15986), (437, 16046), (530, 16235), (542, 16262), (544, 16265),

Gene: Cen1621_15 Start: 11346, Stop: 12224, Start Num: 61

Candidate Starts for Cen1621_15:

(Start: 61 @11346 has 4 MA's), (Start: 118 @11436 has 1 MA's), (220, 11619), (404, 11919), (516, 12156), (544, 12216),

Gene: Chance64_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Chance64_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Chancellor_23 Start: 17500, Stop: 18633, Start Num: 25

Candidate Starts for Chancellor_23:

(Start: 25 @17500 has 250 MA's), (32, 17518), (49, 17590), (Start: 68 @17620 has 6 MA's), (130, 17710), (154, 17752), (166, 17776), (218, 17881), (302, 18034), (348, 18103), (351, 18109), (411, 18262), (425, 18280), (443, 18310), (461, 18352), (462, 18355), (541, 18562), (549, 18601), (550, 18619),

Gene: Chavito_22 Start: 15385, Stop: 16524, Start Num: 25

Candidate Starts for Chavito_22:

(Start: 25 @15385 has 250 MA's), (Start: 68 @15505 has 6 MA's), (130, 15595), (168, 15664), (217, 15763), (218, 15766), (275, 15865), (302, 15919), (352, 16000), (385, 16075), (392, 16090), (443, 16201), (461, 16243), (481, 16297), (493, 16336), (503, 16360), (526, 16420), (535, 16438), (541, 16453), (549, 16492), (550, 16510),

Gene: CheeseSpider_21 Start: 16153, Stop: 17019, Start Num: 68

Candidate Starts for CheeseSpider_21:

(Start: 68 @16153 has 6 MA's), (Start: 72 @16159 has 26 MA's), (174, 16315), (178, 16324), (215, 16396), (286, 16495), (352, 16603), (397, 16687), (425, 16753), (492, 16888), (509, 16930),

Gene: CheetoDust_22 Start: 16028, Stop: 17164, Start Num: 25

Candidate Starts for CheetoDust_22:

(Start: 25 @16028 has 250 MA's), (Start: 68 @16145 has 6 MA's), (130, 16235), (141, 16256), (154, 16277), (168, 16304), (302, 16559), (352, 16640), (385, 16715), (392, 16730), (443, 16841), (461, 16883), (493, 16976), (503, 17000), (541, 17093), (549, 17132), (550, 17150),

Gene: Cheetobro_23 Start: 17497, Stop: 18630, Start Num: 25

Candidate Starts for Cheetobro_23:

(Start: 25 @17497 has 250 MA's), (32, 17515), (49, 17587), (Start: 68 @17617 has 6 MA's), (130, 17707), (154, 17749), (166, 17773), (218, 17878), (302, 18031), (348, 18100), (351, 18106), (411, 18259), (425, 18277), (443, 18307), (461, 18349), (462, 18352), (541, 18559), (549, 18598), (550, 18616),

Gene: Cherrybomb426_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Cherrybomb426_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: ChewyVIII_55 Start: 37234, Stop: 38175, Start Num: 77

Candidate Starts for ChewyVIII_55:

(Start: 77 @37234 has 1 MA's), (144, 37336), (211, 37456), (217, 37477), (247, 37507), (272, 37546), (305, 37612), (369, 37726), (409, 37828), (415, 37855), (493, 38038), (509, 38086), (524, 38125), (527, 38131),

Gene: ChiliPepper_16 Start: 12807, Stop: 13661, Start Num: 66

Candidate Starts for ChiliPepper_16:

(Start: 66 @12807 has 131 MA's), (78, 12831), (89, 12852), (114, 12882), (133, 12912), (209, 13035), (242, 13086), (245, 13092), (388, 13314), (393, 13329), (399, 13335), (462, 13470), (509, 13581), (516, 13593), (544, 13653),

Gene: Chivey_29 Start: 16948, Stop: 17838, Start Num: 60

Candidate Starts for Chivey_29:

(Start: 60 @16948 has 92 MA's), (207, 17176), (215, 17203), (254, 17272), (270, 17296), (284, 17329), (381, 17485), (399, 17518), (408, 17551), (436, 17608), (464, 17659), (507, 17749), (521, 17779), (544, 17830), (545, 17833),

Gene: Chris_21 Start: 15243, Stop: 16379, Start Num: 25

Candidate Starts for Chris_21:

(Start: 25 @15243 has 250 MA's), (Start: 68 @15360 has 6 MA's), (Start: 79 @15378 has 5 MA's), (141, 15471), (168, 15519), (275, 15720), (332, 15819), (345, 15840), (383, 15927), (392, 15945), (411, 16008), (427, 16032), (443, 16056), (461, 16098), (462, 16101), (481, 16152), (493, 16191), (541, 16308), (546, 16335), (549, 16347), (550, 16365),

Gene: Chucky_19 Start: 14970, Stop: 15827, Start Num: 60

Candidate Starts for Chucky_19:

(Start: 60 @14970 has 92 MA's), (Start: 112 @15042 has 1 MA's), (124, 15060), (218, 15228), (245, 15255), (378, 15468), (381, 15474), (408, 15540), (436, 15597), (463, 15642), (471, 15663), (542, 15816), (544, 15819),

Gene: Cicada_22 Start: 15575, Stop: 16468, Start Num: 69

Candidate Starts for Cicada_22:

(Start: 69 @15575 has 33 MA's), (133, 15668), (182, 15755), (219, 15839), (274, 15920), (275, 15923), (340, 16046), (426, 16214), (463, 16283), (471, 16304), (472, 16307), (514, 16394), (515, 16397), (531, 16433),

Gene: Clap_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for Clap_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: Clark_19 Start: 16513, Stop: 17349, Start Num: 106

Candidate Starts for Clark_19:

(Start: 106 @16513 has 19 MA's), (Start: 115 @16522 has 37 MA's), (143, 16564), (163, 16597), (171, 16612), (223, 16723), (225, 16729), (262, 16768), (291, 16822), (311, 16861), (338, 16903), (355, 16933), (361, 16942), (429, 17092), (472, 17182), (512, 17269),

Gene: Clayda5_16 Start: 11609, Stop: 12466, Start Num: 66

Candidate Starts for Clayda5_16:

(Start: 66 @11609 has 131 MA's), (87, 11648), (114, 11684), (133, 11714), (140, 11726), (204, 11822), (245, 11894), (291, 11969), (301, 11990), (404, 12158), (459, 12269),

Gene: CliffHanger_17 Start: 12643, Stop: 13500, Start Num: 66

Candidate Starts for CliffHanger_17:

(Start: 66 @12643 has 131 MA's), (133, 12745), (245, 12925), (399, 13171), (506, 13405), (516, 13432), (542, 13489), (544, 13492),

Gene: Clipper_22 Start: 16028, Stop: 17164, Start Num: 25

Candidate Starts for Clipper_22:

(Start: 25 @16028 has 250 MA's), (Start: 68 @16145 has 6 MA's), (130, 16235), (141, 16256), (154, 16277), (168, 16304), (302, 16559), (352, 16640), (385, 16715), (392, 16730), (443, 16841), (461, 16883), (493, 16976), (503, 17000), (541, 17093), (549, 17132), (550, 17150),

Gene: Cloudyecho_17 Start: 15656, Stop: 16834, Start Num: 25

Candidate Starts for Cloudyecho_17:

(4, 15257), (7, 15317), (Start: 25 @15656 has 250 MA's), (Start: 79 @15800 has 5 MA's), (116, 15851), (154, 15917), (155, 15920), (171, 15950), (211, 16022), (243, 16091), (247, 16097), (326, 16232), (358, 16286), (381, 16346), (417, 16454), (443, 16511), (461, 16553), (524, 16727), (526, 16730), (541, 16763), (547, 16796),

Gene: ClubL_47 Start: 28631, Stop: 29512, Start Num: 74

Candidate Starts for ClubL_47:

(Start: 74 @28631 has 13 MA's), (Start: 110 @28679 has 2 MA's), (130, 28706), (170, 28778), (208, 28844), (217, 28874), (293, 28982), (351, 29075), (362, 29099), (367, 29114), (411, 29210), (443, 29258), (514, 29438), (530, 29474),

Gene: CocoCinnamon_21 Start: 14814, Stop: 15716, Start Num: 56

Candidate Starts for CocoCinnamon_21:

(Start: 56 @14814 has 4 MA's), (Start: 83 @14862 has 6 MA's), (Start: 97 @14883 has 1 MA's), (Start: 100 @14886 has 5 MA's), (181, 15015), (200, 15045), (207, 15060), (278, 15183), (285, 15198), (319, 15261), (399, 15405), (408, 15438), (426, 15474), (429, 15480), (441, 15507), (467, 15555), (515, 15645), (521, 15657),

Gene: CoffeeBean_44 Start: 30363, Stop: 31289, Start Num: 79

Candidate Starts for CoffeeBean_44:

(Start: 79 @30363 has 5 MA's), (Start: 110 @30399 has 2 MA's), (178, 30516), (205, 30555), (211, 30573), (247, 30624), (302, 30723), (351, 30798), (356, 30807), (390, 30882), (397, 30903), (443, 31041), (461, 31077), (475, 31116), (493, 31158), (515, 31221), (531, 31254),

Gene: Coleslaw_17 Start: 15468, Stop: 16640, Start Num: 25

Candidate Starts for Coleslaw_17:

(7, 15135), (Start: 25 @15468 has 250 MA's), (Start: 68 @15588 has 6 MA's), (Start: 79 @15606 has 5 MA's), (113, 15651), (116, 15657), (152, 15720), (171, 15756), (210, 15825), (211, 15828), (217, 15849), (247, 15903), (275, 15948), (292, 15978), (351, 16080), (358, 16092), (362, 16104), (368, 16122), (425, 16287), (443, 16317), (451, 16335), (461, 16359), (505, 16479), (541, 16569), (547, 16602),

Gene: Collard_20 Start: 16380, Stop: 17510, Start Num: 28

Candidate Starts for Collard_20:

(Start: 28 @16380 has 36 MA's), (113, 16554), (152, 16620), (154, 16623), (168, 16650), (217, 16749), (275, 16851), (302, 16905), (323, 16935), (345, 16971), (346, 16974), (351, 16983), (383, 17058), (385, 17061), (399, 17097), (411, 17139), (425, 17157), (427, 17163), (443, 17187), (444, 17190), (461, 17229), (541, 17439), (549, 17478), (550, 17496),

Gene: Coltrane_16 Start: 11609, Stop: 12466, Start Num: 66

Candidate Starts for Coltrane_16:

(Start: 66 @11609 has 131 MA's), (87, 11648), (114, 11684), (133, 11714), (140, 11726), (204, 11822), (245, 11894), (291, 11969), (301, 11990), (404, 12158), (459, 12269),

Gene: Commandaria_42 Start: 30197, Stop: 31138, Start Num: 83

Candidate Starts for Commandaria_42:

(Start: 83 @30197 has 6 MA's), (137, 30284), (155, 30314), (178, 30359), (247, 30467), (356, 30650), (395, 30731), (397, 30737), (405, 30764), (484, 30980), (493, 31007), (531, 31103),

Gene: Conan_20 Start: 15399, Stop: 16256, Start Num: 62

Candidate Starts for Conan_20:

(Start: 62 @15399 has 21 MA's), (84, 15435), (Start: 112 @15471 has 1 MA's), (138, 15513), (218, 15657), (302, 15786), (304, 15789), (331, 15831), (376, 15891), (378, 15897), (427, 16008), (463, 16071), (471, 16092), (531, 16221), (542, 16245), (544, 16248),

Gene: CookieDog_23 Start: 13699, Stop: 14559, Start Num: 69

Candidate Starts for CookieDog_23:

(Start: 69 @13699 has 33 MA's), (89, 13735), (Start: 92 @13738 has 1 MA's), (Start: 112 @13759 has 1 MA's), (Start: 115 @13765 has 37 MA's), (124, 13777), (133, 13792), (171, 13858), (185, 13885), (209, 13915), (219, 13948), (286, 14041), (300, 14068), (376, 14191), (378, 14197), (393, 14230), (427, 14308), (540, 14545), (542, 14548),

Gene: CoolCookie_30 Start: 17793, Stop: 18683, Start Num: 60

Candidate Starts for CoolCookie_30:

(Start: 60 @17793 has 92 MA's), (254, 18117), (270, 18141), (284, 18174), (381, 18330), (408, 18396), (464, 18504), (521, 18624), (544, 18675), (545, 18678),

Gene: Cota_15 Start: 11295, Stop: 12242, Start Num: 66

Candidate Starts for Cota_15:

(Start: 56 @11280 has 4 MA's), (Start: 61 @11286 has 4 MA's), (Start: 66 @11295 has 131 MA's), (Start: 83 @11328 has 6 MA's), (93, 11346), (95, 11349), (Start: 100 @11355 has 5 MA's), (Start: 118 @11379 has 1 MA's), (124, 11388), (140, 11418), (142, 11421), (143, 11424), (152, 11436), (161, 11451), (165, 11460), (181, 11490), (200, 11520), (207, 11535), (211, 11547), (212, 11550), (213, 11553), (230, 11601), (238, 11619), (261, 11655), (265, 11661), (277, 11688), (290, 11712), (302, 11739), (317, 11763), (323, 11772), (358, 11835), (383, 11889), (385, 11892), (387, 11895), (391, 11907), (404, 11946), (408, 11961), (411, 11970), (423, 11982), (426, 11997), (433, 12012), (436, 12018), (472, 12090), (473, 12093), (494, 12111), (496, 12114), (499, 12123), (515, 12171), (521, 12183), (524, 12192), (531, 12207), (534, 12213), (540, 12228),

Gene: Cracklewink_23 Start: 18745, Stop: 19743, Start Num: 50

Candidate Starts for Cracklewink_23:

(Start: 50 @18745 has 6 MA's), (95, 18811), (101, 18820), (141, 18883), (152, 18901), (155, 18907), (217, 19030), (228, 19057), (235, 19060), (253, 19081), (307, 19183), (315, 19192), (332, 19219), (368, 19294), (396, 19336), (404, 19363), (443, 19432), (444, 19435), (463, 19477), (481, 19525), (483, 19534), (498, 19576), (503, 19588), (528, 19645), (549, 19714),

Gene: Crespo_17 Start: 15478, Stop: 16650, Start Num: 25

Candidate Starts for Crespo_17:

(7, 15145), (Start: 25 @15478 has 250 MA's), (Start: 68 @15598 has 6 MA's), (Start: 79 @15616 has 5 MA's), (113, 15661), (116, 15667), (152, 15730), (171, 15766), (210, 15835), (211, 15838), (217, 15859), (247, 15913), (275, 15958), (292, 15988), (351, 16090), (358, 16102), (362, 16114), (368, 16132), (425, 16297), (443, 16327), (451, 16345), (461, 16369), (505, 16489), (541, 16579), (547, 16612),

Gene: Crestdrop_29 Start: 16857, Stop: 17747, Start Num: 60

Candidate Starts for Crestdrop_29:

(Start: 60 @16857 has 92 MA's), (215, 17112), (254, 17181), (270, 17205), (284, 17238), (399, 17427), (408, 17460), (436, 17517), (464, 17568), (507, 17658), (521, 17688), (544, 17739), (545, 17742),

Gene: CrimD_22 Start: 15989, Stop: 17125, Start Num: 25

Candidate Starts for CrimD_22:

(Start: 25 @15989 has 250 MA's), (Start: 68 @16106 has 6 MA's), (130, 16196), (141, 16217), (154, 16238), (168, 16265), (302, 16520), (352, 16601), (385, 16676), (392, 16691), (443, 16802), (461, 16844), (493, 16937), (503, 16961), (541, 17054), (549, 17093), (550, 17111),

Gene: CroZenni_17 Start: 13041, Stop: 13895, Start Num: 66

Candidate Starts for CroZenni_17:

(Start: 66 @13041 has 131 MA's), (114, 13116), (133, 13146), (138, 13155), (204, 13254), (209, 13269), (245, 13326), (301, 13422), (304, 13431), (328, 13464), (388, 13548), (399, 13569), (456, 13686), (516, 13827), (544, 13887),

Gene: Cruella_30 Start: 27616, Stop: 28482, Start Num: 66

Candidate Starts for Cruella_30:

(Start: 66 @27616 has 131 MA's), (82, 27640), (Start: 118 @27685 has 1 MA's), (152, 27745), (173, 27784), (219, 27880), (327, 28042), (348, 28075), (395, 28150), (402, 28174), (454, 28249), (479, 28315), (493, 28351), (505, 28378), (525, 28435),

Gene: Cucurbita_49 Start: 30001, Stop: 30882, Start Num: 74

Candidate Starts for Cucurbita_49:

(Start: 74 @30001 has 13 MA's), (Start: 110 @30049 has 2 MA's), (130, 30076), (170, 30148), (208, 30214), (217, 30244), (293, 30352), (351, 30445), (362, 30469), (367, 30484), (411, 30580), (443, 30628), (514, 30808), (530, 30844),

Gene: Culver_47 Start: 28434, Stop: 29321, Start Num: 70

Candidate Starts for Culver_47:

(Start: 70 @28434 has 24 MA's), (Start: 74 @28440 has 13 MA's), (Start: 110 @28488 has 2 MA's), (130, 28515), (170, 28587), (208, 28653), (217, 28683), (293, 28791), (351, 28884), (362, 28908), (367, 28923), (411, 29019), (443, 29067), (514, 29247), (530, 29283),

Gene: CupcakePrincess_17 Start: 13158, Stop: 14012, Start Num: 66

Candidate Starts for CupcakePrincess_17:

(Start: 66 @13158 has 131 MA's), (114, 13233), (133, 13263), (138, 13272), (204, 13371), (209, 13386), (245, 13443), (301, 13539), (304, 13548), (328, 13581), (388, 13665), (393, 13680), (399, 13686), (509, 13932), (516, 13944), (544, 14004),

Gene: Curiosium_23 Start: 15737, Stop: 16873, Start Num: 25

Candidate Starts for Curiosium_23:

(Start: 25 @15737 has 250 MA's), (Start: 68 @15854 has 6 MA's), (141, 15965), (168, 16013), (302, 16268), (305, 16274), (352, 16349), (392, 16439), (443, 16550), (461, 16592), (493, 16685), (503, 16709), (541, 16802), (549, 16841), (550, 16859),

Gene: Cybele_30 Start: 17763, Stop: 18653, Start Num: 60

Candidate Starts for Cybele_30:

(Start: 60 @17763 has 92 MA's), (254, 18087), (270, 18111), (284, 18144), (381, 18300), (464, 18474), (521, 18594), (544, 18645), (545, 18648),

Gene: Cynthia_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for Cynthia_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: DMoney_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for DMoney_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: DNAIII_0017 Start: 15486, Stop: 16658, Start Num: 25

Candidate Starts for DNAIII_0017:

(7, 15153), (Start: 25 @15486 has 250 MA's), (Start: 68 @15606 has 6 MA's), (Start: 79 @15624 has 5 MA's), (113, 15669), (116, 15675), (152, 15738), (171, 15774), (210, 15843), (211, 15846), (217, 15867), (247, 15921), (275, 15966), (292, 15996), (351, 16098), (358, 16110), (362, 16122), (368, 16140), (425, 16305), (443, 16335), (451, 16353), (461, 16377), (505, 16497), (541, 16587), (547, 16620),

Gene: Dadosky_20 Start: 16302, Stop: 17432, Start Num: 28

Candidate Starts for Dadosky_20:

(Start: 28 @16302 has 36 MA's), (113, 16476), (152, 16542), (168, 16572), (217, 16671), (275, 16773), (302, 16827), (323, 16857), (345, 16893), (346, 16896), (351, 16905), (383, 16980), (385, 16983), (394, 17004), (399, 17019), (411, 17061), (425, 17079), (427, 17085), (443, 17109), (444, 17112), (461, 17151), (497, 17253), (541, 17361), (549, 17400), (550, 17418),

Gene: Dalilpop_45 Start: 31200, Stop: 32117, Start Num: 81

Candidate Starts for Dalilpop_45:

(2, 30261), (Start: 81 @31200 has 28 MA's), (137, 31278), (217, 31431), (302, 31560), (345, 31623), (397, 31731), (493, 31986), (521, 32061), (531, 32082),

Gene: Dalmuri_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Dalmuri_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461,

16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: DanSyl44_24 Start: 17503, Stop: 18636, Start Num: 25

Candidate Starts for DanSyl44_24:

(Start: 25 @17503 has 250 MA's), (32, 17521), (49, 17593), (Start: 68 @17623 has 6 MA's), (130, 17713), (154, 17755), (166, 17779), (218, 17884), (302, 18037), (348, 18106), (351, 18112), (411, 18265), (425, 18283), (443, 18313), (461, 18355), (462, 18358), (535, 18550), (541, 18565), (549, 18604), (550, 18622),

Gene: DannyDe_29 Start: 16940, Stop: 17830, Start Num: 60

Candidate Starts for DannyDe_29:

(Start: 60 @16940 has 92 MA's), (207, 17168), (215, 17195), (254, 17264), (270, 17288), (284, 17321), (399, 17510), (408, 17543), (436, 17600), (464, 17651), (507, 17741), (521, 17771), (544, 17822), (545, 17825),

Gene: Danzina_20 Start: 15187, Stop: 16044, Start Num: 60

Candidate Starts for Danzina_20:

(Start: 60 @15187 has 92 MA's), (Start: 112 @15259 has 1 MA's), (162, 15340), (218, 15445), (245, 15472), (374, 15676), (376, 15679), (378, 15685), (436, 15814), (471, 15880), (542, 16033), (544, 16036),

Gene: Dardanus_23 Start: 15835, Stop: 16677, Start Num: 94

Candidate Starts for Dardanus_23:

(Start: 94 @15835 has 6 MA's), (Start: 96 @15838 has 5 MA's), (Start: 110 @15850 has 2 MA's), (135, 15886), (152, 15916), (154, 15919), (178, 15967), (199, 16000), (219, 16051), (224, 16063), (233, 16075), (305, 16198), (334, 16240), (343, 16249), (352, 16267), (354, 16270), (373, 16318), (374, 16321), (395, 16342), (409, 16390), (432, 16426), (469, 16498), (470, 16501), (472, 16507), (512, 16597), (518, 16612), (534, 16648),

Gene: Daredevil_28 Start: 24544, Stop: 25425, Start Num: 70

Candidate Starts for Daredevil_28:

(Start: 70 @24544 has 24 MA's), (130, 24619), (164, 24682), (170, 24691), (174, 24700), (246, 24820), (286, 24880), (351, 24988), (411, 25123), (443, 25171), (475, 25246), (492, 25294), (511, 25342), (514, 25351),

Gene: Darionha_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Darionha_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: DartGoblin_22 Start: 15944, Stop: 17080, Start Num: 25

Candidate Starts for DartGoblin_22:

(Start: 25 @15944 has 250 MA's), (Start: 68 @16061 has 6 MA's), (130, 16151), (141, 16172), (154, 16193), (168, 16220), (275, 16421), (302, 16475), (352, 16556), (385, 16631), (392, 16646), (461, 16799), (493, 16892), (503, 16916), (541, 17009), (549, 17048), (550, 17066),

Gene: DarthP_21 Start: 16442, Stop: 17578, Start Num: 25

Candidate Starts for DarthP_21:

(Start: 25 @16442 has 250 MA's), (Start: 68 @16559 has 6 MA's), (Start: 79 @16577 has 5 MA's), (102, 16610), (130, 16649), (168, 16718), (217, 16817), (219, 16823), (275, 16919), (302, 16973),

(345, 17039), (351, 17051), (411, 17207), (427, 17231), (461, 17297), (462, 17300), (463, 17303), (493, 17390), (541, 17507), (549, 17546), (550, 17564),

Gene: Dartin_22 Start: 15375, Stop: 16514, Start Num: 25

Candidate Starts for Dartin_22:

(Start: 25 @15375 has 250 MA's), (Start: 68 @15495 has 6 MA's), (130, 15585), (168, 15654), (217, 15753), (218, 15756), (275, 15855), (302, 15909), (352, 15990), (385, 16065), (392, 16080), (427, 16167), (443, 16191), (461, 16233), (462, 16236), (481, 16287), (493, 16326), (526, 16410), (535, 16428), (541, 16443), (549, 16482), (550, 16500),

Gene: Darwin_33 Start: 27301, Stop: 28167, Start Num: 66

Candidate Starts for Darwin_33:

(Start: 66 @27301 has 131 MA's), (82, 27325), (Start: 118 @27370 has 1 MA's), (152, 27430), (173, 27469), (219, 27565), (327, 27727), (348, 27760), (395, 27835), (402, 27859), (479, 28000), (493, 28036), (505, 28063), (525, 28120),

Gene: DatBoi_30 Start: 26971, Stop: 27855, Start Num: 70

Candidate Starts for DatBoi_30:

(Start: 70 @26971 has 24 MA's), (Start: 85 @26992 has 1 MA's), (130, 27046), (246, 27247), (281, 27298), (286, 27307), (302, 27343), (351, 27415), (354, 27421), (411, 27550), (443, 27598), (475, 27673), (492, 27721),

Gene: Dattran_20 Start: 14976, Stop: 15833, Start Num: 60

Candidate Starts for Dattran_20:

(Start: 60 @14976 has 92 MA's), (Start: 112 @15048 has 1 MA's), (162, 15129), (218, 15234), (245, 15261), (374, 15465), (376, 15468), (378, 15474), (408, 15546), (436, 15603), (471, 15669), (542, 15822), (544, 15825),

Gene: Daudau_19 Start: 14913, Stop: 15773, Start Num: 63

Candidate Starts for Daudau_19:

(Start: 63 @14913 has 55 MA's), (Start: 71 @14928 has 6 MA's), (99, 14970), (124, 15006), (162, 15069), (245, 15201), (378, 15414), (542, 15762), (544, 15765), (545, 15768),

Gene: Dauntless_29 Start: 17500, Stop: 18390, Start Num: 60

Candidate Starts for Dauntless_29:

(Start: 60 @17500 has 92 MA's), (215, 17755), (254, 17824), (270, 17848), (284, 17881), (381, 18037), (399, 18070), (436, 18160), (464, 18211), (507, 18301), (521, 18331), (529, 18349), (544, 18382), (545, 18385),

Gene: Deby_22 Start: 15985, Stop: 17121, Start Num: 25

Candidate Starts for Deby_22:

(Start: 25 @15985 has 250 MA's), (Start: 68 @16102 has 6 MA's), (130, 16192), (141, 16213), (154, 16234), (168, 16261), (302, 16516), (352, 16597), (385, 16672), (392, 16687), (443, 16798), (461, 16840), (493, 16933), (503, 16957), (541, 17050), (549, 17089), (550, 17107),

Gene: DelaGarza_21 Start: 14265, Stop: 15128, Start Num: 67

Candidate Starts for DelaGarza_21:

(Start: 66 @14262 has 131 MA's), (Start: 67 @14265 has 11 MA's), (131, 14355), (133, 14361), (176, 14439), (182, 14448), (185, 14454), (220, 14520), (275, 14586), (286, 14613), (304, 14652), (378, 14769), (381, 14775), (393, 14802), (404, 14826), (463, 14943), (465, 14952), (480, 14982), (514, 15054), (540, 15114),

Gene: Delian_18 Start: 15817, Stop: 16677, Start Num: 72

Candidate Starts for Delian_18:

(Start: 68 @15811 has 6 MA's), (Start: 72 @15817 has 26 MA's), (174, 15973), (215, 16054), (286, 16153), (352, 16261), (397, 16345), (425, 16411), (454, 16456), (492, 16546), (509, 16588),

Gene: Denise_16 Start: 13946, Stop: 14794, Start Num: 107

Candidate Starts for Denise_16:

(Start: 107 @13946 has 33 MA's), (Start: 115 @13955 has 37 MA's), (163, 14030), (166, 14036), (207, 14108), (212, 14123), (217, 14141), (237, 14174), (266, 14207), (298, 14273), (308, 14294), (311, 14297), (316, 14306), (324, 14318), (333, 14333), (459, 14597), (463, 14603), (531, 14759), (534, 14765),

Gene: Devera_22 Start: 16032, Stop: 17168, Start Num: 25

Candidate Starts for Devera_22:

(Start: 25 @16032 has 250 MA's), (Start: 68 @16149 has 6 MA's), (141, 16260), (154, 16281), (168, 16308), (218, 16410), (302, 16563), (352, 16644), (374, 16698), (385, 16719), (392, 16734), (443, 16845), (461, 16887), (493, 16980), (503, 17004), (541, 17097), (549, 17136), (550, 17154),

Gene: Dexers_18 Start: 15380, Stop: 16237, Start Num: 62

Candidate Starts for Dexers_18:

(Start: 62 @15380 has 21 MA's), (84, 15416), (Start: 112 @15452 has 1 MA's), (138, 15494), (218, 15638), (245, 15665), (376, 15872), (378, 15878), (390, 15902), (463, 16052), (531, 16202), (542, 16226), (544, 16229),

Gene: Diane_19 Start: 15448, Stop: 16305, Start Num: 63

Candidate Starts for Diane_19:

(Start: 63 @15448 has 55 MA's), (124, 15538), (218, 15706), (244, 15730), (274, 15769), (331, 15880), (337, 15889), (378, 15946), (405, 16006), (408, 16018), (411, 16027), (436, 16075), (471, 16141), (489, 16177), (518, 16240), (542, 16294), (544, 16297),

Gene: DickRichards_17 Start: 13536, Stop: 14390, Start Num: 66

Candidate Starts for DickRichards_17:

(Start: 66 @13536 has 131 MA's), (114, 13611), (133, 13641), (138, 13650), (204, 13749), (209, 13764), (245, 13821), (301, 13917), (304, 13926), (328, 13959), (388, 14043), (399, 14064), (456, 14181), (516, 14322), (544, 14382),

Gene: Didgeridoo_18 Start: 13268, Stop: 14122, Start Num: 66

Candidate Starts for Didgeridoo_18:

(Start: 66 @13268 has 131 MA's), (89, 13313), (114, 13343), (133, 13373), (138, 13382), (209, 13496), (245, 13553), (399, 13796), (427, 13868), (459, 13925), (509, 14042), (516, 14054), (544, 14114),

Gene: Dillpickles_19 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Dillpickles_19:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500, 17663), (512, 17696),

Gene: DillyDally_16 Start: 13389, Stop: 14372, Start Num: 58

Candidate Starts for DillyDally_16:

(Start: 58 @13389 has 10 MA's), (95, 13452), (Start: 100 @13458 has 5 MA's), (152, 13530), (200, 13614), (203, 13617), (207, 13629), (230, 13677), (241, 13707), (296, 13803), (325, 13854), (336, 13875), (360, 13920), (393, 13977), (399, 13992), (404, 14010), (426, 14061), (429, 14067), (438, 14088), (473, 14175), (480, 14190), (485, 14217), (529, 14331),

Gene: DingDing_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for DingDing_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: DinoDaryn_23 Start: 15864, Stop: 16697, Start Num: 94

Candidate Starts for DinoDaryn_23:

(Start: 94 @15864 has 6 MA's), (Start: 96 @15867 has 5 MA's), (116, 15882), (140, 15921), (152, 15942), (154, 15945), (224, 16089), (343, 16275), (395, 16362), (432, 16446), (472, 16527), (510, 16611), (512, 16617), (516, 16629), (518, 16632), (529, 16656),

Gene: DirtyBubble_17 Start: 13092, Stop: 13946, Start Num: 66

Candidate Starts for DirtyBubble_17:

(Start: 66 @13092 has 131 MA's), (89, 13137), (114, 13167), (133, 13197), (204, 13305), (209, 13320), (245, 13377), (301, 13473), (304, 13482), (328, 13515), (399, 13620), (401, 13629), (429, 13695), (437, 13713), (456, 13737), (509, 13866), (516, 13878), (544, 13938),

Gene: DismalFunk_18 Start: 13889, Stop: 15016, Start Num: 28

Candidate Starts for DismalFunk_18:

(Start: 28 @13889 has 36 MA's), (32, 13898), (Start: 68 @14000 has 6 MA's), (130, 14090), (154, 14132), (155, 14135), (168, 14159), (217, 14258), (253, 14321), (275, 14360), (302, 14414), (345, 14480), (351, 14492), (372, 14543), (383, 14567), (411, 14645), (425, 14663), (443, 14693), (446, 14702), (461, 14735), (462, 14738), (503, 14852), (535, 14930), (541, 14945), (549, 14984), (550, 15002),

Gene: DismalStressor_18 Start: 13889, Stop: 15016, Start Num: 28

Candidate Starts for DismalStressor_18:

(Start: 28 @13889 has 36 MA's), (32, 13898), (Start: 68 @14000 has 6 MA's), (130, 14090), (154, 14132), (155, 14135), (168, 14159), (217, 14258), (253, 14321), (275, 14360), (302, 14414), (345, 14480), (351, 14492), (372, 14543), (383, 14567), (411, 14645), (425, 14663), (443, 14693), (446, 14702), (461, 14735), (462, 14738), (503, 14852), (535, 14930), (541, 14945), (549, 14984), (550, 15002),

Gene: Dismas_16 Start: 12807, Stop: 13661, Start Num: 66

Candidate Starts for Dismas_16:

(Start: 66 @12807 has 131 MA's), (78, 12831), (89, 12852), (114, 12882), (133, 12912), (209, 13035), (242, 13086), (245, 13092), (388, 13314), (393, 13329), (399, 13335), (462, 13470), (509, 13581), (516, 13593), (544, 13653),

Gene: DobbysSock_18 Start: 15996, Stop: 16823, Start Num: 115

Candidate Starts for DobbysSock_18:

(Start: 106 @15987 has 19 MA's), (Start: 115 @15996 has 37 MA's), (143, 16038), (163, 16071), (171, 16086), (201, 16134), (223, 16197), (225, 16203), (262, 16242), (291, 16296), (311, 16335), (314, 16341), (338, 16377), (355, 16407), (361, 16416), (429, 16566), (472, 16656), (512, 16743),

Gene: Dole_22 Start: 16034, Stop: 17170, Start Num: 25

Candidate Starts for Dole_22:

(Start: 25 @16034 has 250 MA's), (Start: 68 @16151 has 6 MA's), (141, 16262), (154, 16283), (168, 16310), (218, 16412), (302, 16565), (352, 16646), (374, 16700), (385, 16721), (392, 16736), (443, 16847), (461, 16889), (493, 16982), (503, 17006), (541, 17099), (549, 17138), (550, 17156),

Gene: Dolores_19 Start: 16489, Stop: 17325, Start Num: 106

Candidate Starts for Dolores_19:

(Start: 106 @16489 has 19 MA's), (Start: 115 @16498 has 37 MA's), (143, 16540), (163, 16573), (171, 16588), (201, 16636), (223, 16699), (225, 16705), (262, 16744), (291, 16798), (311, 16837), (314, 16843), (338, 16879), (355, 16909), (361, 16918), (429, 17068), (512, 17245),

Gene: Doobus_17 Start: 13393, Stop: 14247, Start Num: 66

Candidate Starts for Doobus_17:

(Start: 66 @13393 has 131 MA's), (114, 13468), (133, 13498), (138, 13507), (204, 13606), (209, 13621), (245, 13678), (301, 13774), (304, 13783), (328, 13816), (388, 13900), (456, 14038), (458, 14047), (508, 14164), (516, 14179), (544, 14239),

Gene: Dorito_18 Start: 15989, Stop: 16825, Start Num: 106

Candidate Starts for Dorito_18:

(Start: 106 @15989 has 19 MA's), (Start: 115 @15998 has 37 MA's), (143, 16040), (163, 16073), (171, 16088), (223, 16199), (225, 16205), (235, 16214), (262, 16244), (291, 16298), (311, 16337), (338, 16379), (355, 16409), (361, 16418), (429, 16568), (472, 16658), (512, 16745),

Gene: DoubleChamp_20 Start: 16380, Stop: 17510, Start Num: 28

Candidate Starts for DoubleChamp_20:

(Start: 28 @16380 has 36 MA's), (113, 16554), (152, 16620), (154, 16623), (168, 16650), (217, 16749), (275, 16851), (302, 16905), (323, 16935), (345, 16971), (346, 16974), (351, 16983), (383, 17058), (385, 17061), (399, 17097), (411, 17139), (425, 17157), (427, 17163), (443, 17187), (444, 17190), (461, 17229), (541, 17439), (549, 17478), (550, 17496),

Gene: Doughnut_18 Start: 13909, Stop: 15036, Start Num: 28

Candidate Starts for Doughnut_18:

(Start: 28 @13909 has 36 MA's), (32, 13918), (Start: 68 @14020 has 6 MA's), (130, 14110), (154, 14152), (168, 14179), (215, 14272), (217, 14278), (253, 14341), (275, 14380), (302, 14434), (351, 14512), (372, 14563), (383, 14587), (411, 14665), (425, 14683), (443, 14713), (461, 14755), (462, 14758), (503, 14872), (535, 14950), (541, 14965), (549, 15004), (550, 15022),

Gene: DrHayes_22 Start: 15965, Stop: 17101, Start Num: 25

Candidate Starts for DrHayes_22:

(Start: 25 @15965 has 250 MA's), (Start: 68 @16082 has 6 MA's), (130, 16172), (141, 16193), (154, 16214), (168, 16241), (275, 16442), (302, 16496), (305, 16502), (352, 16577), (385, 16652), (392, 16667), (461, 16820), (493, 16913), (503, 16937), (541, 17030), (549, 17069), (550, 17087),

Gene: DrParker_15 Start: 11327, Stop: 12268, Start Num: 66

Candidate Starts for DrParker_15:

(52, 11306), (Start: 61 @11318 has 4 MA's), (Start: 63 @11321 has 55 MA's), (Start: 66 @11327 has 131 MA's), (Start: 83 @11360 has 6 MA's), (93, 11378), (Start: 118 @11405 has 1 MA's), (124, 11414), (138, 11441), (140, 11444), (142, 11447), (143, 11450), (152, 11462), (157, 11471), (165, 11486), (181, 11516), (200, 11546), (207, 11561), (209, 11567), (211, 11573), (212, 11576), (213, 11579), (230, 11627), (238, 11645), (265, 11687), (277, 11714), (299, 11756), (302, 11765), (319, 11792), (323, 11798), (358, 11861), (362, 11873), (383, 11915), (385, 11918), (404, 11972), (408, 11987), (423, 12008), (426, 12023), (433, 12038), (436, 12044), (444, 12062), (494, 12137), (496, 12140), (499, 12149), (515, 12197), (521, 12209), (524, 12218), (531, 12233), (534, 12239), (540, 12254),

Gene: Dropshot_22 Start: 13565, Stop: 14425, Start Num: 69

Candidate Starts for Dropshot_22:

(Start: 69 @13565 has 33 MA's), (89, 13601), (Start: 92 @13604 has 1 MA's), (Start: 112 @13625 has 1 MA's), (Start: 115 @13631 has 37 MA's), (124, 13643), (133, 13658), (171, 13724), (185, 13751), (209, 13781), (219, 13814), (286, 13907), (300, 13934), (376, 14057), (378, 14063), (393, 14096), (427, 14174), (540, 14411), (542, 14414),

Gene: Durfee_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Durfee_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Dusty_46 Start: 28440, Stop: 29321, Start Num: 74

Candidate Starts for Dusty_46:

(Start: 70 @28434 has 24 MA's), (Start: 74 @28440 has 13 MA's), (Start: 110 @28488 has 2 MA's), (130, 28515), (170, 28587), (217, 28683), (293, 28791), (351, 28884), (362, 28908), (367, 28923), (411, 29019), (443, 29067), (514, 29247), (530, 29283),

Gene: Dwayne_19 Start: 14966, Stop: 15823, Start Num: 60

Candidate Starts for Dwayne_19:

(Start: 60 @14966 has 92 MA's), (Start: 112 @15038 has 1 MA's), (124, 15056), (218, 15224), (245, 15251), (361, 15446), (378, 15464), (381, 15470), (405, 15524), (463, 15638), (471, 15659), (542, 15812), (544, 15815),

Gene: E1_16 Start: 12979, Stop: 13818, Start Num: 107

Candidate Starts for E1_16:

(105, 12976), (Start: 107 @12979 has 33 MA's), (Start: 109 @12982 has 2 MA's), (Start: 112 @12985 has 1 MA's), (124, 13003), (128, 13015), (139, 13036), (149, 13051), (154, 13060), (155, 13063), (162, 13075), (166, 13084), (173, 13096), (207, 13159), (227, 13219), (237, 13228), (270, 13282), (314, 13375), (316, 13378), (328, 13399), (341, 13423), (401, 13543), (424, 13597), (434, 13621), (443, 13630), (444, 13633), (455, 13651), (495, 13738), (502, 13756), (517, 13792), (520, 13798),

Gene: ECartman_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for ECartman_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: ELB20_18 Start: 15035, Stop: 15892, Start Num: 63

Candidate Starts for ELB20_18:

(Start: 63 @15035 has 55 MA's), (99, 15089), (124, 15125), (218, 15293), (378, 15533), (472, 15731), (542, 15881), (544, 15884),

Gene: Easley_19 Start: 16499, Stop: 17335, Start Num: 106

Candidate Starts for Easley_19:

(Start: 106 @16499 has 19 MA's), (Start: 115 @16508 has 37 MA's), (143, 16550), (163, 16583), (171, 16598), (201, 16646), (223, 16709), (225, 16715), (262, 16754), (291, 16808), (311, 16847), (314, 16853), (338, 16889), (355, 16919), (361, 16928), (429, 17078), (472, 17168), (512, 17255),

Gene: Ebert_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for Ebert_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: Eddasa_20 Start: 15156, Stop: 16013, Start Num: 60

Candidate Starts for Eddasa_20:

(Start: 60 @15156 has 92 MA's), (Start: 112 @15228 has 1 MA's), (124, 15246), (162, 15309), (218, 15414), (245, 15441), (274, 15477), (302, 15543), (331, 15588), (378, 15654), (381, 15660), (408, 15726), (427, 15765), (436, 15783), (466, 15840), (480, 15867), (542, 16002), (544, 16005),

Gene: Eden_16 Start: 11733, Stop: 12590, Start Num: 65

Candidate Starts for Eden_16:

(Start: 65 @11733 has 1 MA's), (89, 11778), (114, 11808), (133, 11838), (135, 11841), (204, 11946), (209, 11961), (245, 12018), (274, 12054), (301, 12114), (304, 12123), (342, 12180), (399, 12264), (427, 12336), (464, 12408), (544, 12582),

Gene: EdnaMode_16 Start: 13846, Stop: 14694, Start Num: 107

Candidate Starts for EdnaMode_16:

(54, 13759), (Start: 107 @13846 has 33 MA's), (114, 13852), (166, 13936), (196, 13987), (217, 14041), (223, 14056), (237, 14074), (266, 14107), (298, 14173), (308, 14194), (311, 14197), (324, 14218), (355, 14275), (459, 14497), (463, 14503), (531, 14659), (534, 14665),

Gene: Edugator_19 Start: 16302, Stop: 17432, Start Num: 28

Candidate Starts for Edugator_19:

(Start: 28 @16302 has 36 MA's), (113, 16476), (152, 16542), (168, 16572), (217, 16671), (275, 16773), (302, 16827), (323, 16857), (345, 16893), (346, 16896), (351, 16905), (383, 16980), (385, 16983), (399, 17019), (411, 17061), (425, 17079), (427, 17085), (443, 17109), (444, 17112), (461, 17151), (497, 17253), (541, 17361), (549, 17400), (550, 17418),

Gene: Efra2_22 Start: 15227, Stop: 16363, Start Num: 25

Candidate Starts for Efra2_22:

(Start: 25 @15227 has 250 MA's), (Start: 68 @15344 has 6 MA's), (130, 15434), (141, 15455), (168, 15503), (302, 15758), (352, 15839), (385, 15914), (392, 15929), (443, 16040), (461, 16082), (487, 16160), (493, 16175), (503, 16199), (541, 16292), (549, 16331), (550, 16349),

Gene: Ejemplo_19 Start: 14966, Stop: 15823, Start Num: 60

Candidate Starts for Ejemplo_19:

(Start: 60 @14966 has 92 MA's), (Start: 112 @15038 has 1 MA's), (124, 15056), (218, 15224), (245, 15251), (378, 15464), (381, 15470), (408, 15536), (436, 15593), (463, 15638), (471, 15659), (530, 15785), (542, 15812), (544, 15815),

Gene: Ekdilam_19 Start: 16204, Stop: 17340, Start Num: 25

Candidate Starts for Ekdilam_19:

(Start: 25 @16204 has 250 MA's), (Start: 68 @16321 has 6 MA's), (Start: 79 @16339 has 5 MA's), (102, 16372), (130, 16411), (168, 16480), (217, 16579), (219, 16585), (302, 16735), (345, 16801), (351, 16813), (411, 16969), (427, 16993), (444, 17020), (461, 17059), (462, 17062), (493, 17152), (541, 17269), (549, 17308), (550, 17326),

Gene: ElGato_20 Start: 15402, Stop: 16259, Start Num: 62

Candidate Starts for ElGato_20:

(Start: 62 @15402 has 21 MA's), (84, 15438), (Start: 112 @15474 has 1 MA's), (138, 15516), (218, 15660), (245, 15687), (302, 15789), (304, 15792), (331, 15834), (333, 15837), (376, 15894), (378, 15900), (398, 15936), (463, 16074), (531, 16224), (542, 16248), (544, 16251),

Gene: Elener_19 Start: 15583, Stop: 16464, Start Num: 97

Candidate Starts for Elener_19:

(Start: 97 @15583 has 1 MA's), (103, 15592), (145, 15658), (169, 15694), (213, 15778), (220, 15802), (263, 15883), (325, 16003), (467, 16288), (494, 16333),

Gene: Ellie_19 Start: 16200, Stop: 17336, Start Num: 25

Candidate Starts for Ellie_19:

(Start: 25 @16200 has 250 MA's), (Start: 68 @16317 has 6 MA's), (102, 16368), (168, 16476), (218, 16578), (219, 16581), (275, 16677), (302, 16731), (345, 16797), (351, 16809), (461, 17055), (462, 17058), (541, 17265), (549, 17304), (550, 17322),

Gene: Elva_18 Start: 13053, Stop: 13907, Start Num: 66

Candidate Starts for Elva_18:

(Start: 66 @13053 has 131 MA's), (89, 13098), (114, 13128), (133, 13158), (138, 13167), (204, 13266), (245, 13338), (301, 13434), (328, 13476), (381, 13548), (393, 13575), (399, 13581), (401, 13590), (427, 13653), (478, 13755), (516, 13839), (544, 13899),

Gene: Emaanora_21 Start: 14969, Stop: 15826, Start Num: 60

Candidate Starts for Emaanora_21:

(Start: 60 @14969 has 92 MA's), (Start: 112 @15041 has 1 MA's), (124, 15059), (218, 15227), (245, 15254), (361, 15449), (378, 15467), (381, 15473), (405, 15527), (463, 15641), (471, 15662), (542, 15815), (544, 15818),

Gene: Emerson_22 Start: 16011, Stop: 17147, Start Num: 25

Candidate Starts for Emerson_22:

(Start: 25 @16011 has 250 MA's), (Start: 68 @16128 has 6 MA's), (130, 16218), (141, 16239), (154, 16260), (168, 16287), (302, 16542), (352, 16623), (385, 16698), (392, 16713), (443, 16824), (461, 16866), (493, 16959), (503, 16983), (541, 17076), (549, 17115), (550, 17133),

Gene: EmiRose_16 Start: 13050, Stop: 13937, Start Num: 104

Candidate Starts for EmiRose_16:

(Start: 104 @13050 has 1 MA's), (117, 13068), (158, 13137), (209, 13227), (212, 13236), (222, 13269), (229, 13284), (316, 13440), (318, 13443), (321, 13449), (397, 13608), (406, 13638), (423, 13668), (425, 13680), (480, 13794), (493, 13800),

Gene: Emianna_40 Start: 29879, Stop: 30820, Start Num: 81

Candidate Starts for Emianna_40:

(Start: 81 @29879 has 28 MA's), (137, 29966), (178, 30041), (214, 30107), (247, 30149), (282, 30206), (397, 30419), (405, 30446), (443, 30557), (493, 30689), (531, 30785),

Gene: Engineer_48 Start: 28657, Stop: 29538, Start Num: 74

Candidate Starts for Engineer_48:

(Start: 70 @28651 has 24 MA's), (Start: 74 @28657 has 13 MA's), (Start: 110 @28705 has 2 MA's), (130, 28732), (170, 28804), (208, 28870), (217, 28900), (293, 29008), (351, 29101), (362, 29125), (367, 29140), (411, 29236), (443, 29284), (514, 29464), (530, 29500),

Gene: Enkosi_18 Start: 15554, Stop: 16696, Start Num: 25

Candidate Starts for Enkosi_18:

(Start: 25 @15554 has 250 MA's), (Start: 68 @15677 has 6 MA's), (130, 15767), (168, 15836), (217, 15935), (218, 15938), (275, 16037), (352, 16172), (443, 16373), (461, 16415), (462, 16418), (493, 16508), (503, 16532), (541, 16625), (549, 16664), (550, 16682),

Gene: Ennea_46 Start: 30548, Stop: 31465, Start Num: 81

Candidate Starts for Ennea_46:

(Start: 81 @30548 has 28 MA's), (137, 30626), (178, 30701), (247, 30809), (297, 30893), (395, 31073), (397, 31079), (476, 31295), (493, 31334), (521, 31409), (531, 31430), (540, 31451),

Gene: EnochSoames_21 Start: 15152, Stop: 16009, Start Num: 60

Candidate Starts for EnochSoames_21:

(Start: 60 @15152 has 92 MA's), (Start: 112 @15224 has 1 MA's), (124, 15242), (162, 15305), (218, 15410), (245, 15437), (302, 15539), (331, 15584), (378, 15650), (381, 15656), (408, 15722), (427, 15761), (436, 15779), (466, 15836), (542, 15998), (544, 16001),

Gene: Enochoraptor_15 Start: 11298, Stop: 12239, Start Num: 66

Candidate Starts for Enochoraptor_15:

(Start: 57 @11283 has 1 MA's), (Start: 61 @11289 has 4 MA's), (Start: 63 @11292 has 55 MA's), (Start: 66 @11298 has 131 MA's), (Start: 83 @11331 has 6 MA's), (93, 11349), (Start: 118 @11376 has 1 MA's), (124, 11385), (140, 11415), (142, 11418), (143, 11421), (152, 11433), (157, 11442), (181, 11487), (200, 11517), (207, 11532), (211, 11544), (212, 11547), (213, 11550), (230, 11598), (238, 11616), (261, 11652), (265, 11658), (277, 11685), (290, 11709), (302, 11736), (319, 11763), (323, 11769), (358, 11832), (362, 11844), (383, 11886), (385, 11889), (387, 11892), (404, 11943), (408, 11958), (423, 11979), (426, 11994), (433, 12009), (436, 12015), (472, 12087), (473, 12090), (494, 12108), (496, 12111), (499, 12120), (515, 12168), (521, 12180), (524, 12189), (531, 12204), (534, 12210), (540, 12225),

Gene: Enoki_15 Start: 11280, Stop: 12221, Start Num: 66

Candidate Starts for Enoki_15:

(55, 11262), (Start: 66 @11280 has 131 MA's), (Start: 83 @11313 has 6 MA's), (Start: 86 @11319 has 9 MA's), (93, 11331), (Start: 118 @11358 has 1 MA's), (124, 11367), (140, 11397), (142, 11400), (143, 11403), (152, 11415), (157, 11424), (165, 11439), (181, 11469), (200, 11499), (207, 11514), (211, 11526), (212, 11529), (213, 11532), (215, 11541), (220, 11556), (230, 11580), (238, 11598), (261, 11634), (265, 11640), (277, 11667), (278, 11670), (290, 11691), (302, 11718), (317, 11742), (323, 11751), (358, 11814), (362, 11826), (383, 11868), (385, 11871), (387, 11874), (391, 11886), (404, 11925), (408, 11940), (423, 11961), (426, 11976), (433, 11991), (436, 11997), (472, 12069), (473, 12072), (494, 12090), (496, 12093), (499, 12102), (515, 12150), (521, 12162), (524, 12171), (531, 12186), (534, 12192), (540, 12207),

Gene: Eponine_23 Start: 17390, Stop: 18523, Start Num: 25

Candidate Starts for Eponine_23:

(Start: 25 @17390 has 250 MA's), (49, 17480), (Start: 68 @17510 has 6 MA's), (130, 17600), (154, 17642), (155, 17645), (162, 17657), (348, 17993), (351, 17999), (383, 18074), (411, 18152), (424, 18167), (443, 18200), (461, 18242), (462, 18245), (494, 18338), (541, 18452), (549, 18491), (550, 18509),

Gene: Erudite_29 Start: 17500, Stop: 18390, Start Num: 60

Candidate Starts for Erudite_29:

(Start: 60 @17500 has 92 MA's), (215, 17755), (254, 17824), (270, 17848), (284, 17881), (381, 18037), (399, 18070), (436, 18160), (464, 18211), (507, 18301), (521, 18331), (529, 18349), (544, 18382), (545, 18385),

Gene: Esperer_19 Start: 14993, Stop: 15850, Start Num: 60

Candidate Starts for Esperer_19:

(Start: 60 @14993 has 92 MA's), (Start: 112 @15065 has 1 MA's), (124, 15083), (142, 15113), (162, 15146), (218, 15251), (245, 15278), (302, 15380), (331, 15425), (378, 15491), (381, 15497), (405, 15551), (408, 15563), (463, 15665), (466, 15677), (471, 15686), (542, 15839), (544, 15842),

Gene: Eudoria_18 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Eudoria_18:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500, 17663), (512, 17696),

Gene: Eula_17 Start: 13119, Stop: 13973, Start Num: 66

Candidate Starts for Eula_17:

(Start: 66 @13119 has 131 MA's), (114, 13194), (133, 13224), (138, 13233), (204, 13332), (209, 13347), (245, 13404), (301, 13500), (304, 13509), (328, 13542), (388, 13626), (393, 13641), (509, 13893), (516, 13905), (544, 13965),

Gene: Eviarto_18 Start: 16940, Stop: 17767, Start Num: 115

Candidate Starts for Eviarto_18:

(Start: 115 @16940 has 37 MA's), (163, 17015), (221, 17135), (223, 17141), (275, 17207), (279, 17219), (308, 17276), (314, 17285), (338, 17321), (342, 17330), (355, 17351), (399, 17435), (429, 17510), (442, 17531), (500, 17654), (512, 17687),

Gene: Eyre_16 Start: 14536, Stop: 15369, Start Num: 109

Candidate Starts for Eyre_16:

(Start: 109 @14536 has 2 MA's), (144, 14578), (207, 14686), (237, 14752), (308, 14872), (355, 14950), (447, 15145), (463, 15178), (512, 15289),

Gene: FF47_20 Start: 14818, Stop: 15930, Start Num: 27

Candidate Starts for FF47_20:

(Start: 27 @14818 has 5 MA's), (35, 14866), (Start: 106 @14974 has 19 MA's), (113, 14983), (155, 15052), (170, 15079), (243, 15226), (304, 15334), (351, 15409), (356, 15418), (369, 15454), (399, 15523), (411, 15565), (446, 15619), (470, 15676), (508, 15781), (510, 15787), (547, 15892),

Gene: Fairfaxidum_18 Start: 15961, Stop: 16821, Start Num: 70

Candidate Starts for Fairfaxidum_18:

(Start: 70 @15961 has 24 MA's), (Start: 85 @15976 has 1 MA's), (108, 16006), (123, 16027), (174, 16117), (215, 16198), (351, 16402), (352, 16405), (454, 16600), (492, 16690), (509, 16732), (529, 16780), (531, 16786),

Gene: Faith5x5_16 Start: 13806, Stop: 14654, Start Num: 107

Candidate Starts for Faith5x5_16:

(Start: 107 @13806 has 33 MA's), (114, 13812), (188, 13938), (207, 13968), (212, 13983), (217, 14001), (237, 14034), (308, 14154), (311, 14157), (316, 14166), (318, 14169), (324, 14178), (333, 14193), (342, 14211), (360, 14241), (399, 14313), (463, 14463), (534, 14625),

Gene: Faiyaz_23 Start: 18613, Stop: 19611, Start Num: 50

Candidate Starts for Faiyaz_23:

(Start: 50 @18613 has 6 MA's), (95, 18679), (152, 18769), (155, 18775), (180, 18823), (209, 18871), (217, 18898), (228, 18925), (235, 18928), (253, 18949), (282, 19000), (307, 19051), (315, 19060), (332, 19087), (368, 19162), (378, 19186), (427, 19276), (443, 19300), (444, 19303), (461, 19339), (481, 19393), (483, 19402), (498, 19444), (499, 19447), (535, 19528), (538, 19537), (549, 19582),

Gene: Fefferhead_21 Start: 16367, Stop: 17503, Start Num: 25

Candidate Starts for Fefferhead_21:

(Start: 25 @16367 has 250 MA's), (Start: 68 @16484 has 6 MA's), (102, 16535), (168, 16643), (218, 16745), (219, 16748), (275, 16844), (302, 16898), (345, 16964), (351, 16976), (461, 17222), (462,

17225), (541, 17432), (549, 17471), (550, 17489),

Gene: Fenry_17 Start: 15512, Stop: 16372, Start Num: 70

Candidate Starts for Fenry_17:

(Start: 70 @15512 has 24 MA's), (174, 15668), (215, 15749), (261, 15806), (286, 15848), (352, 15956), (397, 16040), (425, 16106), (427, 16112), (454, 16151), (492, 16241), (509, 16283),

Gene: Feyre_20 Start: 16241, Stop: 17371, Start Num: 28

Candidate Starts for Feyre_20:

(Start: 28 @16241 has 36 MA's), (154, 16484), (168, 16511), (217, 16610), (275, 16712), (302, 16766), (323, 16796), (345, 16832), (346, 16835), (351, 16844), (383, 16919), (385, 16922), (399, 16958), (411, 17000), (425, 17018), (427, 17024), (443, 17048), (444, 17051), (446, 17057), (461, 17090), (541, 17300), (549, 17339), (550, 17357),

Gene: Finalfrontier_18 Start: 13632, Stop: 14486, Start Num: 66

Candidate Starts for Finalfrontier_18:

(Start: 66 @13632 has 131 MA's), (89, 13677), (114, 13707), (133, 13737), (138, 13746), (209, 13860), (245, 13917), (399, 14160), (427, 14232), (459, 14289), (509, 14406), (516, 14418), (544, 14478),

Gene: Findley_18 Start: 13892, Stop: 15019, Start Num: 28

Candidate Starts for Findley_18:

(Start: 28 @13892 has 36 MA's), (32, 13901), (Start: 68 @14003 has 6 MA's), (130, 14093), (154, 14135), (155, 14138), (168, 14162), (217, 14261), (253, 14324), (275, 14363), (302, 14417), (345, 14483), (351, 14495), (372, 14546), (383, 14570), (411, 14648), (425, 14666), (443, 14696), (446, 14705), (461, 14738), (462, 14741), (503, 14855), (535, 14933), (541, 14948), (549, 14987), (550, 15005),

Gene: Finkle_18 Start: 15435, Stop: 16259, Start Num: 121

Candidate Starts for Finkle_18:

(Start: 121 @15435 has 2 MA's), (162, 15498), (163, 15501), (168, 15510), (191, 15555), (250, 15666), (291, 15741), (360, 15861), (424, 15990), (458, 16047), (529, 16215),

Gene: Fionnbharth_23 Start: 17490, Stop: 18623, Start Num: 25

Candidate Starts for Fionnbharth_23:

(Start: 25 @17490 has 250 MA's), (32, 17508), (49, 17580), (Start: 68 @17610 has 6 MA's), (130, 17700), (154, 17742), (166, 17766), (218, 17871), (348, 18093), (351, 18099), (410, 18249), (411, 18252), (425, 18270), (443, 18300), (461, 18342), (462, 18345), (481, 18396), (535, 18537), (541, 18552), (549, 18591), (550, 18609),

Gene: FireCastle_20 Start: 15375, Stop: 16238, Start Num: 67

Candidate Starts for FireCastle_20:

(31, 15270), (Start: 67 @15375 has 11 MA's), (89, 15414), (133, 15471), (178, 15552), (182, 15558), (185, 15564), (209, 15594), (219, 15627), (274, 15693), (310, 15771), (328, 15801), (340, 15819), (400, 15921), (426, 15987), (434, 16002), (480, 16092), (514, 16164), (529, 16197), (531, 16203), (533, 16206), (540, 16224),

Gene: FlagStaff_17 Start: 15628, Stop: 16848, Start Num: 17

Candidate Starts for FlagStaff_17:

(7, 15304), (Start: 17 @15628 has 2 MA's), (Start: 25 @15664 has 250 MA's), (Start: 68 @15790 has 6 MA's), (116, 15850), (130, 15874), (154, 15916), (155, 15919), (211, 16021), (218, 16045), (224, 16060), (226, 16066), (243, 16105), (247, 16111), (332, 16255), (343, 16273), (354, 16294), (358, 16300), (366, 16324), (381, 16360), (443, 16525), (461, 16567), (463, 16573), (526, 16744), (547, 16810),

Gene: FlameThrower_16 Start: 12491, Stop: 13345, Start Num: 66

Candidate Starts for FlameThrower_16:

(Start: 66 @12491 has 131 MA's), (114, 12566), (133, 12596), (162, 12644), (204, 12704), (209, 12719), (242, 12770), (245, 12776), (275, 12815), (297, 12863), (301, 12872), (328, 12914), (381, 12986), (399, 13019), (404, 13037), (509, 13265), (514, 13271), (544, 13337),

Gene: Flapper_44 Start: 30267, Stop: 31184, Start Num: 81

Candidate Starts for Flapper_44:

(Start: 81 @30267 has 28 MA's), (137, 30345), (217, 30498), (302, 30627), (397, 30798), (493, 31053), (521, 31128), (531, 31149),

Gene: Float294_42 Start: 29990, Stop: 30907, Start Num: 81

Candidate Starts for Float294_42:

(Start: 81 @29990 has 28 MA's), (137, 30068), (178, 30143), (247, 30251), (297, 30335), (395, 30515), (397, 30521), (476, 30737), (493, 30776), (521, 30851), (527, 30863), (531, 30872), (540, 30893),

Gene: Floof_16 Start: 12468, Stop: 13334, Start Num: 63

Candidate Starts for Floof_16:

(Start: 63 @12468 has 55 MA's), (135, 12582), (142, 12594), (184, 12669), (185, 12672), (255, 12780), (266, 12795), (291, 12846), (301, 12867), (378, 12981), (392, 13011), (399, 13020), (458, 13140), (516, 13266),

Gene: Forester_16 Start: 14001, Stop: 14867, Start Num: 63

Candidate Starts for Forester_16:

(Start: 63 @14001 has 55 MA's), (135, 14115), (184, 14202), (185, 14205), (187, 14211), (255, 14313), (266, 14328), (291, 14379), (301, 14400), (378, 14514), (458, 14673), (514, 14793), (516, 14799), (530, 14829),

Gene: ForeverHowLong_17 Start: 15472, Stop: 16644, Start Num: 25

Candidate Starts for ForeverHowLong_17:

(7, 15139), (Start: 25 @15472 has 250 MA's), (Start: 68 @15592 has 6 MA's), (Start: 79 @15610 has 5 MA's), (113, 15655), (116, 15661), (152, 15724), (171, 15760), (210, 15829), (211, 15832), (217, 15853), (247, 15907), (275, 15952), (292, 15982), (351, 16084), (358, 16096), (362, 16108), (368, 16126), (425, 16291), (443, 16321), (451, 16339), (461, 16363), (505, 16483), (541, 16573), (547, 16606),

Gene: Forza_100 Start: 59008, Stop: 59943, Start Num: 71

Candidate Starts for Forza_100:

(Start: 71 @59008 has 6 MA's), (88, 59023), (Start: 94 @59029 has 6 MA's), (98, 59035), (166, 59152), (168, 59155), (197, 59206), (213, 59242), (301, 59377), (322, 59413), (345, 59443), (448, 59695), (463, 59740), (473, 59770), (480, 59776), (487, 59803), (503, 59842), (534, 59911),

Gene: FountainFog_29 Start: 17105, Stop: 17995, Start Num: 60

Candidate Starts for FountainFog_29:

(Start: 60 @17105 has 92 MA's), (215, 17360), (254, 17429), (270, 17453), (284, 17486), (381, 17642), (399, 17675), (408, 17708), (464, 17816), (507, 17906), (521, 17936), (544, 17987), (545, 17990),

Gene: Foxboro_41 Start: 30385, Stop: 31326, Start Num: 81

Candidate Starts for Foxboro_41:

(Start: 81 @30385 has 28 MA's), (137, 30472), (178, 30547), (214, 30613), (247, 30655), (282, 30712), (397, 30925), (405, 30952), (443, 31063), (493, 31195), (531, 31291),

Gene: Franklin22_17 Start: 11912, Stop: 12769, Start Num: 66

Candidate Starts for Franklin22_17:

(6, 11378), (8, 11465), (Start: 66 @11912 has 131 MA's), (114, 11987), (133, 12017), (204, 12125), (242, 12191), (245, 12197), (301, 12293), (399, 12443), (404, 12461), (427, 12515), (464, 12587), (509, 12689), (544, 12761),

Gene: FreddieHg_29 Start: 16964, Stop: 17854, Start Num: 60

Candidate Starts for FreddieHg_29:

(Start: 60 @16964 has 92 MA's), (207, 17192), (215, 17219), (254, 17288), (270, 17312), (284, 17345), (381, 17501), (399, 17534), (408, 17567), (436, 17624), (464, 17675), (507, 17765), (521, 17795), (544, 17846), (545, 17849),

Gene: Frizzle_15 Start: 13493, Stop: 14353, Start Num: 72

Candidate Starts for Frizzle_15:

(Start: 68 @13487 has 6 MA's), (Start: 72 @13493 has 26 MA's), (Start: 97 @13520 has 1 MA's), (Start: 100 @13523 has 5 MA's), (205, 13682), (219, 13727), (220, 13730), (292, 13832), (301, 13850), (365, 13958), (462, 14144), (463, 14147), (491, 14219), (516, 14285), (533, 14321),

Gene: FroggyToad_16 Start: 13856, Stop: 14704, Start Num: 107

Candidate Starts for FroggyToad_16:

(Start: 107 @13856 has 33 MA's), (114, 13862), (Start: 115 @13865 has 37 MA's), (207, 14018), (212, 14033), (217, 14051), (221, 14060), (235, 14081), (237, 14084), (311, 14207), (316, 14216), (318, 14219), (324, 14228), (347, 14270), (360, 14291), (399, 14363), (463, 14513), (534, 14675),

Gene: Frokostdame_18 Start: 15774, Stop: 16619, Start Num: 85

Candidate Starts for Frokostdame_18:

(Start: 70 @15759 has 24 MA's), (Start: 85 @15774 has 1 MA's), (153, 15876), (174, 15915), (215, 15996), (279, 16080), (286, 16095), (352, 16203), (397, 16287), (425, 16353), (427, 16359), (454, 16398), (492, 16488), (509, 16530),

Gene: Frosty24_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Frosty24_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Fury_49 Start: 29757, Stop: 30677, Start Num: 81

Candidate Starts for Fury_49:

(Start: 81 @29757 has 28 MA's), (137, 29838), (178, 29913), (209, 29964), (282, 30078), (395, 30285), (493, 30546), (515, 30609), (531, 30642),

Gene: GMA1_18 Start: 15118, Stop: 15930, Start Num: 121

Candidate Starts for GMA1_18:

(Start: 121 @15118 has 2 MA's), (138, 15145), (168, 15196), (217, 15301), (218, 15304), (221, 15310), (291, 15421), (292, 15424), (311, 15460), (341, 15508), (388, 15589), (460, 15739), (472, 15772), (516, 15859),

Gene: GMA2_29 Start: 30651, Stop: 31595, Start Num: 66

Candidate Starts for GMA2_29:

(Start: 66 @30651 has 131 MA's), (Start: 94 @30681 has 6 MA's), (98, 30687), (111, 30702), (138, 30750), (168, 30807), (209, 30882), (215, 30903), (246, 30942), (301, 31029), (322, 31065), (329,

31077), (335, 31086), (345, 31095), (369, 31152), (450, 31350), (463, 31392), (480, 31428), (487, 31455), (490, 31461), (503, 31494), (514, 31518), (534, 31563),

Gene: GMA4_17 Start: 16043, Stop: 16957, Start Num: 95

Candidate Starts for GMA4_17:

(39, 15926), (41, 15941), (Start: 62 @15983 has 21 MA's), (95, 16043), (205, 16232), (211, 16250), (243, 16325), (259, 16349), (305, 16448), (330, 16487), (382, 16598), (385, 16601), (397, 16634), (423, 16694), (472, 16793), (508, 16871), (513, 16880), (516, 16889), (529, 16916), (537, 16937), (540, 16943),

Gene: GRU1_30 Start: 22167, Stop: 23084, Start Num: 81

Candidate Starts for GRU1_30:

(Start: 81 @22167 has 28 MA's), (137, 22245), (217, 22398), (297, 22512), (302, 22527), (345, 22590), (397, 22698), (493, 22953), (521, 23028), (531, 23049),

Gene: GTE5_31 Start: 23122, Stop: 24039, Start Num: 81

Candidate Starts for GTE5_31:

(Start: 81 @23122 has 28 MA's), (137, 23200), (217, 23353), (302, 23482), (397, 23653), (454, 23809), (493, 23908), (521, 23983), (531, 24004),

Gene: GTE8_29 Start: 23138, Stop: 24079, Start Num: 81

Candidate Starts for GTE8_29:

(Start: 81 @23138 has 28 MA's), (137, 23225), (178, 23300), (247, 23408), (272, 23447), (345, 23570), (397, 23678), (443, 23816), (493, 23948), (531, 24044),

Gene: Gack_16 Start: 11801, Stop: 12658, Start Num: 66

Candidate Starts for Gack_16:

(Start: 66 @11801 has 131 MA's), (114, 11876), (133, 11906), (204, 12014), (209, 12029), (211, 12035), (242, 12080), (245, 12086), (295, 12170), (301, 12182), (399, 12332), (464, 12476), (509, 12578), (544, 12650),

Gene: Gagieri_44 Start: 30280, Stop: 31170, Start Num: 110

Candidate Starts for Gagieri_44:

(46, 30193), (Start: 77 @30241 has 1 MA's), (Start: 110 @30280 has 2 MA's), (178, 30397), (205, 30436), (211, 30454), (247, 30505), (302, 30604), (351, 30679), (356, 30688), (428, 30892), (443, 30922), (461, 30958), (475, 30997), (493, 31039), (515, 31102), (521, 31114), (531, 31135),

Gene: Gaia_13 Start: 13325, Stop: 14437, Start Num: 42

Candidate Starts for Gaia_13:

(Start: 42 @13325 has 2 MA's), (43, 13328), (101, 13421), (Start: 107 @13427 has 33 MA's), (134, 13472), (152, 13502), (166, 13529), (168, 13532), (171, 13538), (178, 13553), (180, 13556), (215, 13625), (217, 13631), (253, 13709), (286, 13766), (302, 13802), (345, 13868), (351, 13880), (394, 13982), (395, 13985), (403, 14012), (420, 14075), (461, 14156), (463, 14162), (483, 14219), (493, 14249), (499, 14264), (508, 14288), (510, 14294), (535, 14351), (550, 14423),

Gene: Gallia_41 Start: 33872, Stop: 34774, Start Num: 66

Candidate Starts for Gallia_41:

(Start: 66 @33872 has 131 MA's), (152, 34001), (205, 34091), (208, 34100), (214, 34118), (217, 34130), (264, 34184), (348, 34331), (366, 34373), (407, 34466), (408, 34469), (413, 34490), (462, 34562), (493, 34643),

Gene: Gambino_20 Start: 16105, Stop: 16965, Start Num: 70

Candidate Starts for Gambino_20:

(Start: 70 @16105 has 24 MA's), (Start: 85 @16120 has 1 MA's), (153, 16222), (174, 16261), (215, 16342), (279, 16426), (286, 16441), (352, 16549), (397, 16633), (425, 16699), (427, 16705), (454, 16744), (492, 16834), (509, 16876),

Gene: Ganymede_23 Start: 16031, Stop: 17167, Start Num: 25

Candidate Starts for Ganymede_23:

(Start: 25 @16031 has 250 MA's), (Start: 68 @16148 has 6 MA's), (130, 16238), (141, 16259), (154, 16280), (168, 16307), (302, 16562), (352, 16643), (385, 16718), (392, 16733), (443, 16844), (461, 16886), (493, 16979), (503, 17003), (541, 17096), (549, 17135), (550, 17153),

Gene: GardenState_16 Start: 12560, Stop: 13426, Start Num: 63

Candidate Starts for GardenState_16:

(Start: 63 @12560 has 55 MA's), (142, 12686), (144, 12692), (180, 12755), (222, 12836), (291, 12938), (301, 12959), (378, 13073), (392, 13103), (516, 13358),

Gene: Geeche_46 Start: 28531, Stop: 29412, Start Num: 74

Candidate Starts for Geeche_46:

(Start: 74 @28531 has 13 MA's), (Start: 110 @28579 has 2 MA's), (130, 28606), (170, 28678), (208, 28744), (217, 28774), (293, 28882), (351, 28975), (362, 28999), (367, 29014), (411, 29110), (443, 29158), (514, 29338), (530, 29374),

Gene: GemG_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for GemG_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: Gengar_20 Start: 16348, Stop: 17478, Start Num: 28

Candidate Starts for Gengar_20:

(Start: 28 @16348 has 36 MA's), (113, 16522), (152, 16588), (154, 16591), (168, 16618), (217, 16717), (275, 16819), (302, 16873), (323, 16903), (345, 16939), (346, 16942), (351, 16951), (383, 17026), (385, 17029), (399, 17065), (411, 17107), (425, 17125), (427, 17131), (443, 17155), (444, 17158), (446, 17164), (461, 17197), (541, 17407), (549, 17446), (550, 17464),

Gene: Geraldini_22 Start: 16027, Stop: 17163, Start Num: 25

Candidate Starts for Geraldini_22:

(Start: 25 @16027 has 250 MA's), (Start: 68 @16144 has 6 MA's), (130, 16234), (141, 16255), (154, 16276), (168, 16303), (302, 16558), (352, 16639), (385, 16714), (392, 16729), (443, 16840), (446, 16849), (461, 16882), (493, 16975), (503, 16999), (541, 17092), (549, 17131), (550, 17149),

Gene: Ghobes_15 Start: 13491, Stop: 14351, Start Num: 72

Candidate Starts for Ghobes_15:

(Start: 68 @13485 has 6 MA's), (Start: 72 @13491 has 26 MA's), (Start: 97 @13518 has 1 MA's), (Start: 100 @13521 has 5 MA's), (219, 13725), (220, 13728), (246, 13755), (292, 13830), (301, 13848), (365, 13956), (462, 14142), (463, 14145), (491, 14217), (516, 14283), (533, 14319), (544, 14343),

Gene: Gideon_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Gideon_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Gilda_30 Start: 17787, Stop: 18677, Start Num: 60

Candidate Starts for Gilda_30:

(Start: 60 @17787 has 92 MA's), (254, 18111), (270, 18135), (381, 18324), (464, 18498), (521, 18618), (544, 18669), (545, 18672),

Gene: Gingerbug_19 Start: 13474, Stop: 14337, Start Num: 67

Candidate Starts for Gingerbug_19:

(Start: 66 @13471 has 131 MA's), (Start: 67 @13474 has 11 MA's), (133, 13570), (138, 13579), (176, 13648), (182, 13657), (185, 13663), (187, 13669), (209, 13693), (219, 13726), (232, 13747), (274, 13792), (275, 13795), (286, 13822), (304, 13861), (310, 13870), (376, 13972), (378, 13978), (393, 14011), (404, 14035), (426, 14086), (454, 14128), (463, 14152), (478, 14185), (514, 14263), (529, 14296), (531, 14302), (540, 14323), (542, 14326),

Gene: GirlDinner_19 Start: 14709, Stop: 15563, Start Num: 63

Candidate Starts for GirlDinner_19:

(Start: 63 @14709 has 55 MA's), (124, 14799), (162, 14862), (274, 15030), (374, 15195), (378, 15204), (411, 15285), (456, 15360), (471, 15399), (542, 15552), (544, 15555),

Gene: Gizermo_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for Gizermo_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: Goby_19 Start: 14982, Stop: 15839, Start Num: 60

Candidate Starts for Goby_19:

(Start: 60 @14982 has 92 MA's), (Start: 112 @15054 has 1 MA's), (162, 15135), (218, 15240), (219, 15243), (245, 15267), (331, 15414), (374, 15471), (376, 15474), (378, 15480), (408, 15552), (436, 15609), (471, 15675), (542, 15828), (544, 15831),

Gene: GodSpeed_17 Start: 15604, Stop: 16833, Start Num: 17

Candidate Starts for GodSpeed_17:

(7, 15277), (Start: 17 @15604 has 2 MA's), (Start: 25 @15640 has 250 MA's), (Start: 68 @15766 has 6 MA's), (Start: 79 @15784 has 5 MA's), (116, 15835), (130, 15859), (154, 15901), (155, 15904), (171, 15934), (211, 16006), (218, 16030), (224, 16045), (243, 16090), (247, 16096), (332, 16240), (358, 16285), (366, 16309), (381, 16345), (443, 16510), (461, 16552), (526, 16729), (547, 16795),

Gene: GodonK_88 Start: 51377, Stop: 52333, Start Num: 63

Candidate Starts for GodonK_88:

(Start: 63 @51377 has 55 MA's), (Start: 94 @51416 has 6 MA's), (156, 51521), (168, 51542), (197, 51593), (202, 51599), (214, 51632), (322, 51800), (345, 51830), (418, 52010), (440, 52064), (450, 52085), (454, 52103), (463, 52127), (472, 52154), (473, 52157), (480, 52163), (487, 52190), (494, 52208), (531, 52292), (534, 52298), (536, 52301),

Gene: Godpower_20 Start: 14994, Stop: 15851, Start Num: 60

Candidate Starts for Godpower_20:

(Start: 60 @14994 has 92 MA's), (Start: 112 @15066 has 1 MA's), (124, 15084), (162, 15147), (218, 15252), (245, 15279), (304, 15384), (331, 15426), (378, 15492), (405, 15552), (408, 15564), (436, 15621), (463, 15666), (471, 15687), (542, 15840), (544, 15843),

Gene: Goib_22 Start: 15642, Stop: 16475, Start Num: 94

Candidate Starts for Goib_22:

(Start: 94 @15642 has 6 MA's), (Start: 96 @15645 has 5 MA's), (116, 15660), (140, 15699), (152, 15720), (154, 15723), (224, 15867), (343, 16053), (373, 16122), (432, 16224), (472, 16305), (473, 16308), (510, 16389), (512, 16395), (516, 16407), (518, 16410), (529, 16434),

Gene: GoldenAsh_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for GoldenAsh_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Gomashi_17 Start: 15478, Stop: 16650, Start Num: 25

Candidate Starts for Gomashi_17:

(7, 15145), (Start: 25 @15478 has 250 MA's), (Start: 68 @15598 has 6 MA's), (Start: 79 @15616 has 5 MA's), (113, 15661), (116, 15667), (152, 15730), (171, 15766), (210, 15835), (211, 15838), (217, 15859), (247, 15913), (275, 15958), (292, 15988), (351, 16090), (358, 16102), (362, 16114), (368, 16132), (425, 16297), (443, 16327), (451, 16345), (461, 16369), (505, 16489), (541, 16579), (547, 16612),

Gene: Goodman_21 Start: 15488, Stop: 16381, Start Num: 69

Candidate Starts for Goodman_21:

(Start: 69 @15488 has 33 MA's), (133, 15581), (182, 15668), (274, 15833), (275, 15836), (340, 15959), (426, 16127), (463, 16196), (471, 16217), (472, 16220), (514, 16307), (515, 16310), (516, 16313), (531, 16346),

Gene: GreenWeasel_21 Start: 15698, Stop: 16552, Start Num: 63

Candidate Starts for GreenWeasel_21:

(18, 15542), (19, 15545), (Start: 63 @15698 has 55 MA's), (138, 15812), (162, 15851), (219, 15959), (264, 16001), (289, 16055), (458, 16358), (542, 16541), (544, 16544), (545, 16547),

Gene: Gretchen_16 Start: 13995, Stop: 14861, Start Num: 63

Candidate Starts for Gretchen_16:

(Start: 63 @13995 has 55 MA's), (135, 14109), (184, 14196), (185, 14199), (187, 14205), (255, 14307), (266, 14322), (291, 14373), (301, 14394), (378, 14508), (458, 14667), (514, 14787), (516, 14793), (530, 14823),

Gene: Grist_17 Start: 13090, Stop: 13944, Start Num: 66

Candidate Starts for Grist_17:

(Start: 66 @13090 has 131 MA's), (89, 13135), (114, 13165), (133, 13195), (138, 13204), (245, 13375), (427, 13690), (459, 13747), (509, 13864), (516, 13876), (544, 13936),

Gene: Grizzly_17 Start: 15480, Stop: 16652, Start Num: 25

Candidate Starts for Grizzly_17:

(7, 15147), (Start: 25 @15480 has 250 MA's), (Start: 68 @15600 has 6 MA's), (Start: 79 @15618 has 5 MA's), (113, 15663), (116, 15669), (152, 15732), (171, 15768), (210, 15837), (211, 15840), (217, 15861), (247, 15915), (275, 15960), (292, 15990), (351, 16092), (358, 16104), (362, 16116), (425, 16299), (443, 16329), (451, 16347), (461, 16371), (497, 16473), (505, 16491), (541, 16581), (547, 16614),

Gene: GrootJr_42 Start: 29261, Stop: 30202, Start Num: 81

Candidate Starts for GrootJr_42:

(Start: 81 @29261 has 28 MA's), (137, 29348), (178, 29423), (214, 29489), (247, 29531), (282, 29588), (397, 29801), (405, 29828), (443, 29939), (493, 30071), (531, 30167),

Gene: Gsput1_19 Start: 14904, Stop: 15749, Start Num: 96

Candidate Starts for Gsput1_19:

(Start: 94 @14901 has 6 MA's), (Start: 96 @14904 has 5 MA's), (116, 14928), (135, 14958), (152, 14988), (154, 14991), (155, 14994), (176, 15036), (215, 15111), (217, 15117), (305, 15270), (343, 15321), (368, 15378), (398, 15423), (459, 15543), (461, 15546), (500, 15642), (516, 15681), (518, 15684), (534, 15720),

Gene: Guacamole_18 Start: 15791, Stop: 16657, Start Num: 68

Candidate Starts for Guacamole_18:

(Start: 68 @15791 has 6 MA's), (Start: 72 @15797 has 26 MA's), (174, 15953), (215, 16034), (286, 16133), (352, 16241), (397, 16325), (427, 16397), (492, 16526), (503, 16553), (509, 16568),

Gene: Guanica15_22 Start: 15243, Stop: 16379, Start Num: 25

Candidate Starts for Guanica15_22:

(Start: 25 @15243 has 250 MA's), (Start: 68 @15360 has 6 MA's), (130, 15450), (141, 15471), (168, 15519), (302, 15774), (352, 15855), (385, 15930), (392, 15945), (443, 16056), (461, 16098), (487, 16176), (493, 16191), (503, 16215), (541, 16308), (549, 16347), (550, 16365),

Gene: Gudmit_17 Start: 14713, Stop: 15558, Start Num: 112

Candidate Starts for Gudmit_17:

(Start: 107 @14707 has 33 MA's), (Start: 112 @14713 has 1 MA's), (166, 14800), (223, 14920), (311, 15061), (316, 15070), (338, 15106), (357, 15142), (463, 15367), (472, 15394), (488, 15427), (509, 15472), (534, 15529),

Gene: Guillsminger_20 Start: 16323, Stop: 17453, Start Num: 28

Candidate Starts for Guillsminger_20:

(Start: 28 @16323 has 36 MA's), (152, 16563), (154, 16566), (168, 16593), (217, 16692), (275, 16794), (302, 16848), (323, 16878), (345, 16914), (346, 16917), (351, 16926), (383, 17001), (385, 17004), (411, 17082), (425, 17100), (427, 17106), (443, 17130), (444, 17133), (446, 17139), (461, 17172), (541, 17382), (549, 17421), (550, 17439),

Gene: Guzman_24 Start: 13980, Stop: 14840, Start Num: 69

Candidate Starts for Guzman_24:

(Start: 69 @13980 has 33 MA's), (89, 14016), (Start: 92 @14019 has 1 MA's), (Start: 112 @14040 has 1 MA's), (Start: 115 @14046 has 37 MA's), (124, 14058), (133, 14073), (171, 14139), (185, 14166), (209, 14196), (219, 14229), (286, 14322), (300, 14349), (376, 14472), (378, 14478), (393, 14511), (427, 14589), (540, 14826), (542, 14829),

Gene: Hager_31 Start: 17349, Stop: 18239, Start Num: 60

Candidate Starts for Hager_31:

(Start: 60 @17349 has 92 MA's), (254, 17673), (270, 17697), (284, 17730), (381, 17886), (399, 17919), (408, 17952), (464, 18060), (507, 18150), (521, 18180), (544, 18231), (545, 18234),

Gene: Haizum_19 Start: 15480, Stop: 16337, Start Num: 63

Candidate Starts for Haizum_19:

(23, 15354), (Start: 24 @15357 has 1 MA's), (Start: 26 @15363 has 2 MA's), (Start: 63 @15480 has 55 MA's), (73, 15498), (124, 15570), (218, 15738), (274, 15801), (331, 15912), (378, 15978), (405, 16038), (408, 16050), (411, 16059), (436, 16107), (471, 16173), (489, 16209), (518, 16272), (542, 16326), (544, 16329),

Gene: Haley23_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for Haley23_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: Halo_17 Start: 15472, Stop: 16644, Start Num: 25

Candidate Starts for Halo_17:

(7, 15139), (Start: 25 @15472 has 250 MA's), (Start: 68 @15592 has 6 MA's), (Start: 79 @15610 has 5 MA's), (113, 15655), (116, 15661), (152, 15724), (171, 15760), (210, 15829), (211, 15832), (217, 15853), (247, 15907), (275, 15952), (292, 15982), (351, 16084), (358, 16096), (362, 16108), (368, 16126), (425, 16291), (443, 16321), (451, 16339), (461, 16363), (505, 16483), (541, 16573), (547, 16606),

Gene: Hammy_21 Start: 16436, Stop: 17572, Start Num: 25

Candidate Starts for Hammy_21:

(Start: 25 @16436 has 250 MA's), (Start: 68 @16553 has 6 MA's), (Start: 79 @16571 has 5 MA's), (102, 16604), (130, 16643), (168, 16712), (217, 16811), (219, 16817), (275, 16913), (302, 16967), (345, 17033), (351, 17045), (411, 17201), (427, 17225), (461, 17291), (462, 17294), (463, 17297), (493, 17384), (541, 17501), (549, 17540), (550, 17558),

Gene: Hank144_20 Start: 15105, Stop: 15959, Start Num: 63

Candidate Starts for Hank144_20:

(Start: 63 @15105 has 55 MA's), (99, 15159), (162, 15258), (173, 15279), (212, 15342), (289, 15462), (304, 15495), (342, 15555), (378, 15600), (456, 15756), (471, 15795), (503, 15858), (542, 15948), (544, 15951), (545, 15954),

Gene: Haunter_30 Start: 17200, Stop: 18090, Start Num: 60

Candidate Starts for Haunter_30:

(Start: 60 @17200 has 92 MA's), (254, 17524), (270, 17548), (284, 17581), (381, 17737), (408, 17803), (464, 17911), (521, 18031), (544, 18082), (545, 18085),

Gene: HedwigODU_22 Start: 16020, Stop: 17156, Start Num: 25

Candidate Starts for HedwigODU_22:

(Start: 25 @16020 has 250 MA's), (Start: 68 @16137 has 6 MA's), (130, 16227), (141, 16248), (154, 16269), (168, 16296), (302, 16551), (352, 16632), (385, 16707), (392, 16722), (443, 16833), (461, 16875), (493, 16968), (503, 16992), (541, 17085), (549, 17124), (550, 17142),

Gene: Heftyboy_20 Start: 16471, Stop: 17601, Start Num: 28

Candidate Starts for Heftyboy_20:

(Start: 28 @16471 has 36 MA's), (113, 16645), (152, 16711), (154, 16714), (168, 16741), (217, 16840), (275, 16942), (302, 16996), (323, 17026), (345, 17062), (346, 17065), (351, 17074), (383, 17149), (385, 17152), (399, 17188), (411, 17230), (425, 17248), (427, 17254), (443, 17278), (444, 17281), (446, 17287), (461, 17320), (541, 17530), (549, 17569), (550, 17587),

Gene: Herod_18 Start: 16940, Stop: 17767, Start Num: 115

Candidate Starts for Herod_18:

(Start: 115 @16940 has 37 MA's), (163, 17015), (221, 17135), (223, 17141), (275, 17207), (279, 17219), (308, 17276), (314, 17285), (338, 17321), (342, 17330), (355, 17351), (399, 17435), (429, 17510), (442, 17531), (500, 17654), (512, 17687),

Gene: Hiddenleaf_29 Start: 16948, Stop: 17838, Start Num: 60

Candidate Starts for Hiddenleaf_29:

(Start: 60 @16948 has 92 MA's), (207, 17176), (215, 17203), (254, 17272), (270, 17296), (284, 17329), (381, 17485), (399, 17518), (408, 17551), (436, 17608), (464, 17659), (507, 17749), (521, 17779), (544, 17830), (545, 17833),

Gene: Hilltopfarm_23 Start: 18643, Stop: 19641, Start Num: 50

Candidate Starts for Hilltopfarm_23:

(Start: 50 @18643 has 6 MA's), (95, 18709), (152, 18799), (155, 18805), (180, 18853), (209, 18901), (217, 18928), (228, 18955), (235, 18958), (253, 18979), (282, 19030), (307, 19081), (315, 19090), (332, 19117), (368, 19192), (378, 19216), (427, 19306), (443, 19330), (444, 19333), (461, 19369), (481, 19423), (483, 19432), (498, 19474), (499, 19477), (535, 19558), (538, 19567), (549, 19612),

Gene: Hippo_19 Start: 14969, Stop: 15826, Start Num: 60

Candidate Starts for Hippo_19:

(Start: 60 @14969 has 92 MA's), (Start: 112 @15041 has 1 MA's), (124, 15059), (218, 15227), (245, 15254), (361, 15449), (378, 15467), (381, 15473), (405, 15527), (463, 15641), (471, 15662), (542, 15815), (544, 15818),

Gene: Hitter_18 Start: 15793, Stop: 16653, Start Num: 72

Candidate Starts for Hitter_18:

(Start: 68 @15787 has 6 MA's), (Start: 72 @15793 has 26 MA's), (174, 15949), (215, 16030), (286, 16129), (352, 16237), (397, 16321), (425, 16387), (454, 16432), (492, 16522), (509, 16564),

Gene: HomeFry_46 Start: 28359, Stop: 29288, Start Num: 81

Candidate Starts for HomeFry_46:

(Start: 81 @28359 has 28 MA's), (137, 28440), (178, 28515), (209, 28566), (302, 28722), (376, 28857), (397, 28896), (493, 29151), (531, 29253),

Gene: Homura_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Homura_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Honk_15 Start: 11270, Stop: 12148, Start Num: 61

Candidate Starts for Honk_15:

(Start: 61 @11270 has 4 MA's), (Start: 118 @11360 has 1 MA's), (220, 11543), (275, 11618), (404, 11843), (516, 12080), (544, 12140),

Gene: Hope_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Hope_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Hortense_19 Start: 17069, Stop: 17905, Start Num: 106

Candidate Starts for Hortense_19:

(Start: 106 @17069 has 19 MA's), (Start: 115 @17078 has 37 MA's), (143, 17120), (163, 17153), (171, 17168), (201, 17216), (223, 17279), (225, 17285), (262, 17324), (291, 17378), (298, 17393), (311, 17417), (314, 17423), (338, 17459), (355, 17489), (361, 17498), (429, 17648), (472, 17738), (512, 17825),

Gene: Hotshotbaby7_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Hotshotbaby7_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Howe_19 Start: 17069, Stop: 17905, Start Num: 106

Candidate Starts for Howe_19:

(Start: 106 @17069 has 19 MA's), (Start: 115 @17078 has 37 MA's), (143, 17120), (163, 17153), (171, 17168), (201, 17216), (223, 17279), (225, 17285), (262, 17324), (291, 17378), (298, 17393), (311, 17417), (314, 17423), (338, 17459), (355, 17489), (361, 17498), (429, 17648), (472, 17738), (512, 17825),

Gene: Htur_20 Start: 15518, Stop: 16411, Start Num: 69

Candidate Starts for Htur_20:

(Start: 69 @15518 has 33 MA's), (133, 15611), (138, 15620), (182, 15698), (209, 15749), (274, 15863), (275, 15866), (276, 15872), (304, 15932), (425, 16154), (426, 16157), (463, 16226), (471, 16247), (472, 16250), (503, 16310), (531, 16376),

Gene: HubbaBubba_38 Start: 25653, Stop: 26573, Start Num: 86

Candidate Starts for HubbaBubba_38:

(Start: 86 @25653 has 9 MA's), (137, 25734), (163, 25779), (205, 25848), (302, 26016), (356, 26100), (376, 26151), (422, 26274), (469, 26382), (476, 26400), (493, 26442), (501, 26463), (529, 26532), (531, 26538), (540, 26559),

Gene: Huffy_23 Start: 15864, Stop: 16697, Start Num: 94

Candidate Starts for Huffy_23:

(Start: 94 @15864 has 6 MA's), (Start: 96 @15867 has 5 MA's), (116, 15882), (140, 15921), (152, 15942), (154, 15945), (224, 16089), (343, 16275), (395, 16362), (432, 16446), (472, 16527), (510, 16611), (512, 16617), (516, 16629), (518, 16632), (529, 16656),

Gene: Hugley_18 Start: 16940, Stop: 17767, Start Num: 115

Candidate Starts for Hugley_18:

(Start: 115 @16940 has 37 MA's), (163, 17015), (221, 17135), (223, 17141), (275, 17207), (279, 17219), (308, 17276), (314, 17285), (338, 17321), (342, 17330), (355, 17351), (399, 17435), (429, 17510), (442, 17531), (500, 17654), (512, 17687),

Gene: Hum25_18 Start: 12574, Stop: 13560, Start Num: 51

Candidate Starts for Hum25_18:

(Start: 51 @12574 has 3 MA's), (Start: 86 @12628 has 9 MA's), (95, 12640), (Start: 100 @12646 has 5 MA's), (142, 12706), (143, 12709), (144, 12712), (161, 12736), (207, 12820), (219, 12859), (241, 12898), (343, 13078), (375, 13144), (393, 13168), (399, 13183), (411, 13225), (434, 13270), (478, 13372), (483, 13396), (524, 13510), (537, 13540),

Gene: Hurricane_21 Start: 16451, Stop: 17587, Start Num: 25

Candidate Starts for Hurricane_21:

(Start: 25 @16451 has 250 MA's), (Start: 68 @16574 has 6 MA's), (113, 16637), (116, 16643), (134, 16673), (154, 16706), (211, 16811), (217, 16832), (253, 16895), (275, 16934), (292, 16964), (345, 17051), (362, 17087), (425, 17234), (443, 17264), (446, 17273), (461, 17306), (462, 17309), (463, 17312), (493, 17399), (528, 17486), (547, 17549), (549, 17555),

Gene: Hydra_21 Start: 15521, Stop: 16378, Start Num: 60

Candidate Starts for Hydra_21:

(Start: 60 @15521 has 92 MA's), (Start: 112 @15593 has 1 MA's), (124, 15611), (142, 15641), (162, 15674), (218, 15779), (245, 15806), (302, 15908), (331, 15953), (378, 16019), (381, 16025), (405, 16079), (408, 16091), (463, 16193), (466, 16205), (471, 16214), (542, 16367), (544, 16370),

Gene: Hyperbowlee_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Hyperbowlee_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Hyzer_18 Start: 17011, Stop: 17838, Start Num: 115

Candidate Starts for Hyzer_18:

(Start: 115 @17011 has 37 MA's), (221, 17206), (223, 17212), (279, 17290), (308, 17347), (314, 17356), (338, 17392), (342, 17401), (355, 17422), (399, 17506), (429, 17581), (512, 17758),

Gene: IAmGroot_16 Start: 13204, Stop: 14070, Start Num: 63

Candidate Starts for IAmGroot_16:

(Start: 63 @13204 has 55 MA's), (142, 13330), (144, 13336), (180, 13399), (222, 13480), (291, 13582), (301, 13603), (378, 13717), (392, 13747), (516, 14002),

Gene: IDyn_41 Start: 27049, Stop: 27969, Start Num: 86

Candidate Starts for IDyn_41:

(Start: 86 @27049 has 9 MA's), (137, 27130), (163, 27175), (205, 27244), (302, 27412), (356, 27496), (376, 27547), (397, 27580), (422, 27670), (469, 27778), (493, 27838), (529, 27928), (531, 27934), (540, 27955),

Gene: Ibantik_80 Start: 41938, Stop: 42960, Start Num: 33

Candidate Starts for Ibantik_80:

(22, 41893), (Start: 33 @41938 has 5 MA's), (34, 41950), (52, 42007), (Start: 118 @42112 has 1 MA's), (131, 42130), (155, 42175), (173, 42208), (180, 42223), (209, 42262), (280, 42382), (389, 42598), (452, 42745), (462, 42769), (463, 42772),

Gene: Icarian_18 Start: 12974, Stop: 13828, Start Num: 66

Candidate Starts for Icarian_18:

(Start: 66 @12974 has 131 MA's), (89, 13019), (114, 13049), (133, 13079), (204, 13187), (209, 13202), (245, 13259), (301, 13355), (304, 13364), (328, 13397), (388, 13481), (399, 13502), (401, 13511), (404, 13520), (437, 13595), (456, 13619), (509, 13748), (516, 13760), (544, 13820),

Gene: Illumine_22 Start: 16034, Stop: 17170, Start Num: 25

Candidate Starts for Illumine_22:

(Start: 25 @16034 has 250 MA's), (Start: 68 @16151 has 6 MA's), (141, 16262), (154, 16283), (168, 16310), (218, 16412), (302, 16565), (352, 16646), (374, 16700), (385, 16721), (392, 16736), (443, 16847), (461, 16889), (493, 16982), (503, 17006), (541, 17099), (549, 17138), (550, 17156),

Gene: IndiRoo_20 Start: 13817, Stop: 14680, Start Num: 67

Candidate Starts for IndiRoo_20:

(Start: 67 @13817 has 11 MA's), (124, 13898), (133, 13913), (178, 13994), (182, 14000), (219, 14069), (235, 14096), (274, 14135), (304, 14204), (310, 14213), (328, 14243), (340, 14261), (404, 14378), (419, 14405), (437, 14450), (454, 14471), (514, 14606), (515, 14609), (529, 14639), (531, 14645), (540, 14666), (542, 14669),

Gene: Indigo_19 Start: 14993, Stop: 15850, Start Num: 60

Candidate Starts for Indigo_19:

(Start: 60 @14993 has 92 MA's), (Start: 112 @15065 has 1 MA's), (124, 15083), (142, 15113), (162, 15146), (218, 15251), (245, 15278), (302, 15380), (331, 15425), (378, 15491), (381, 15497), (405, 15551), (408, 15563), (463, 15665), (466, 15677), (471, 15686), (542, 15839), (544, 15842),

Gene: IndyLu_17 Start: 13090, Stop: 13944, Start Num: 66

Candidate Starts for IndyLu_17:

(Start: 66 @13090 has 131 MA's), (89, 13135), (114, 13165), (133, 13195), (138, 13204), (245, 13375), (399, 13618), (427, 13690), (459, 13747), (509, 13864), (516, 13876), (544, 13936),

Gene: Inky_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Inky_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Invectra_19 Start: 16870, Stop: 17706, Start Num: 106

Candidate Starts for Invectra_19:

(Start: 106 @16870 has 19 MA's), (Start: 115 @16879 has 37 MA's), (143, 16921), (163, 16954), (171, 16969), (223, 17080), (225, 17086), (262, 17125), (291, 17179), (311, 17218), (314, 17224), (338, 17260), (355, 17290), (361, 17299), (429, 17449), (472, 17539), (512, 17626),

Gene: InvictusManeo_20 Start: 16423, Stop: 17553, Start Num: 28

Candidate Starts for InvictusManeo_20:

(Start: 28 @16423 has 36 MA's), (113, 16597), (152, 16663), (154, 16666), (168, 16693), (217, 16792), (275, 16894), (302, 16948), (323, 16978), (345, 17014), (346, 17017), (351, 17026), (383, 17101), (385, 17104), (399, 17140), (411, 17182), (425, 17200), (427, 17206), (443, 17230), (444, 17233), (461, 17272), (541, 17482), (549, 17521), (550, 17539),

Gene: Issmi_20 Start: 15911, Stop: 16768, Start Num: 63

Candidate Starts for Issmi_20:

(Start: 63 @15911 has 55 MA's), (73, 15929), (Start: 107 @15977 has 33 MA's), (124, 16001), (142, 16031), (171, 16082), (218, 16169), (331, 16343), (337, 16352), (350, 16373), (378, 16409), (381, 16415), (408, 16481), (425, 16514), (471, 16604), (472, 16607), (489, 16640), (518, 16703), (542, 16757), (544, 16760),

Gene: Itza_19 Start: 15339, Stop: 16196, Start Num: 63

Candidate Starts for Itza_19:

(Start: 63 @15339 has 55 MA's), (Start: 92 @15390 has 1 MA's), (Start: 112 @15411 has 1 MA's), (124, 15429), (138, 15453), (162, 15492), (381, 15843), (393, 15870), (408, 15909), (437, 15969), (530, 16158), (542, 16185), (544, 16188),

Gene: Izzy_20 Start: 15203, Stop: 16060, Start Num: 60

Candidate Starts for Izzy_20:

(Start: 60 @15203 has 92 MA's), (Start: 112 @15275 has 1 MA's), (124, 15293), (162, 15356), (218, 15461), (245, 15488), (274, 15524), (302, 15590), (331, 15635), (378, 15701), (381, 15707), (408, 15773), (427, 15812), (436, 15830), (466, 15887), (480, 15914), (542, 16049), (544, 16052),

Gene: JAWS_22 Start: 16005, Stop: 17141, Start Num: 25

Candidate Starts for JAWS_22:

(Start: 25 @16005 has 250 MA's), (Start: 68 @16122 has 6 MA's), (130, 16212), (141, 16233), (154, 16254), (168, 16281), (302, 16536), (352, 16617), (385, 16692), (392, 16707), (443, 16818), (461,

16860), (493, 16953), (503, 16977), (541, 17070), (549, 17109), (550, 17127),

Gene: JCole_16 Start: 13901, Stop: 14749, Start Num: 107

Candidate Starts for JCole_16:

(54, 13814), (Start: 107 @13901 has 33 MA's), (114, 13907), (Start: 118 @13913 has 1 MA's), (196, 14042), (217, 14096), (237, 14129), (266, 14162), (308, 14249), (311, 14252), (324, 14273), (355, 14330), (459, 14552), (463, 14558), (534, 14720),

Gene: JDawG_29 Start: 17530, Stop: 18420, Start Num: 60

Candidate Starts for JDawG_29:

(Start: 60 @17530 has 92 MA's), (215, 17785), (254, 17854), (270, 17878), (284, 17911), (399, 18100), (408, 18133), (436, 18190), (464, 18241), (507, 18331), (521, 18361), (544, 18412), (545, 18415),

Gene: JF1_23 Start: 17489, Stop: 18622, Start Num: 25

Candidate Starts for JF1_23:

(Start: 25 @17489 has 250 MA's), (32, 17507), (49, 17579), (Start: 68 @17609 has 6 MA's), (130, 17699), (154, 17741), (166, 17765), (218, 17870), (348, 18092), (351, 18098), (410, 18248), (411, 18251), (425, 18269), (443, 18299), (461, 18341), (462, 18344), (481, 18395), (535, 18536), (541, 18551), (549, 18590), (550, 18608),

Gene: Jabb_17 Start: 13158, Stop: 14012, Start Num: 66

Candidate Starts for Jabb_17:

(Start: 66 @13158 has 131 MA's), (114, 13233), (133, 13263), (138, 13272), (204, 13371), (209, 13386), (245, 13443), (301, 13539), (304, 13548), (328, 13581), (388, 13665), (393, 13680), (399, 13686), (509, 13932), (516, 13944), (544, 14004),

Gene: Jace_16 Start: 13933, Stop: 14742, Start Num: 118

Candidate Starts for Jace_16:

(Start: 118 @13933 has 1 MA's), (166, 14011), (193, 14062), (217, 14119), (223, 14134), (235, 14149), (260, 14176), (300, 14251), (335, 14305), (434, 14503), (496, 14614), (514, 14665), (529, 14698), (531, 14704),

Gene: JacoRen57_16 Start: 14312, Stop: 15445, Start Num: 27

Candidate Starts for JacoRen57_16:

(Start: 27 @14312 has 5 MA's), (35, 14360), (91, 14465), (Start: 110 @14489 has 2 MA's), (113, 14492), (166, 14582), (170, 14588), (224, 14702), (228, 14711), (332, 14891), (351, 14924), (356, 14933), (405, 15062), (408, 15074), (411, 15083), (443, 15128), (446, 15137), (461, 15170), (469, 15191), (472, 15200), (493, 15260), (508, 15299), (510, 15305), (519, 15329), (547, 15410),

Gene: Jakelyne_24 Start: 13781, Stop: 14641, Start Num: 69

Candidate Starts for Jakelyne_24:

(Start: 69 @13781 has 33 MA's), (89, 13817), (Start: 92 @13820 has 1 MA's), (Start: 112 @13841 has 1 MA's), (Start: 115 @13847 has 37 MA's), (124, 13859), (133, 13874), (171, 13940), (185, 13967), (209, 13997), (219, 14030), (286, 14123), (300, 14150), (353, 14243), (376, 14273), (378, 14279), (393, 14312), (427, 14390), (540, 14627), (542, 14630),

Gene: Jalammah_20 Start: 16587, Stop: 17447, Start Num: 70

Candidate Starts for Jalammah_20:

(Start: 70 @16587 has 24 MA's), (174, 16743), (215, 16824), (261, 16881), (267, 16890), (286, 16923), (352, 17031), (397, 17115), (425, 17181), (427, 17187), (492, 17316), (509, 17358),

Gene: Jalleen_17 Start: 13903, Stop: 14751, Start Num: 107

Candidate Starts for Jalleen_17:

(Start: 107 @13903 has 33 MA's), (114, 13909), (196, 14044), (237, 14131), (266, 14164), (308, 14251), (311, 14254), (324, 14275), (338, 14299), (463, 14560), (534, 14722),

Gene: Jane_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Jane_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Janus_20 Start: 15047, Stop: 15901, Start Num: 63

Candidate Starts for Janus_20:

(Start: 63 @15047 has 55 MA's), (124, 15137), (162, 15200), (374, 15533), (378, 15542), (411, 15623), (456, 15698), (471, 15737), (507, 15812), (542, 15890), (544, 15893),

Gene: Jarvi_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Jarvi_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Jash_20 Start: 15156, Stop: 16013, Start Num: 60

Candidate Starts for Jash_20:

(Start: 60 @15156 has 92 MA's), (Start: 112 @15228 has 1 MA's), (124, 15246), (162, 15309), (218, 15414), (245, 15441), (274, 15477), (302, 15543), (331, 15588), (378, 15654), (381, 15660), (408, 15726), (427, 15765), (436, 15783), (466, 15840), (480, 15867), (542, 16002), (544, 16005),

Gene: JasperJr_18 Start: 15797, Stop: 16657, Start Num: 72

Candidate Starts for JasperJr_18:

(Start: 68 @15791 has 6 MA's), (Start: 72 @15797 has 26 MA's), (174, 15953), (215, 16034), (286, 16133), (352, 16241), (397, 16325), (427, 16397), (492, 16526), (503, 16553), (509, 16568),

Gene: Jayhawk_22 Start: 16018, Stop: 17154, Start Num: 25

Candidate Starts for Jayhawk_22:

(Start: 25 @16018 has 250 MA's), (Start: 68 @16135 has 6 MA's), (130, 16225), (141, 16246), (154, 16267), (168, 16294), (302, 16549), (352, 16630), (385, 16705), (392, 16720), (443, 16831), (461, 16873), (493, 16966), (503, 16990), (541, 17083), (549, 17122), (550, 17140),

Gene: JeanClaude_17 Start: 13138, Stop: 13977, Start Num: 100

Candidate Starts for JeanClaude_17:

(Start: 58 @13069 has 10 MA's), (Start: 100 @13138 has 5 MA's), (161, 13228), (181, 13267), (200, 13297), (207, 13312), (230, 13360), (278, 13450), (285, 13465), (302, 13501), (319, 13528), (323, 13534), (371, 13621), (399, 13666), (424, 13729), (426, 13735), (441, 13768), (454, 13795), (492, 13840), (494, 13846), (499, 13858), (515, 13906), (518, 13912), (521, 13918),

Gene: Jeckyll_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Jeckyll_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Jeilious_17 Start: 15476, Stop: 16648, Start Num: 25

Candidate Starts for Jeilious_17:

(7, 15143), (Start: 25 @15476 has 250 MA's), (Start: 68 @15596 has 6 MA's), (Start: 79 @15614 has 5 MA's), (113, 15659), (116, 15665), (152, 15728), (171, 15764), (210, 15833), (211, 15836), (217, 15857), (247, 15911), (275, 15956), (292, 15986), (351, 16088), (358, 16100), (362, 16112), (368, 16130), (425, 16295), (443, 16325), (451, 16343), (461, 16367), (505, 16487), (541, 16577), (547, 16610),

Gene: Jera_21 Start: 14585, Stop: 15478, Start Num: 69

Candidate Starts for Jera_21:

(Start: 69 @14585 has 33 MA's), (133, 14678), (138, 14687), (182, 14765), (209, 14816), (235, 14876), (274, 14930), (275, 14933), (276, 14939), (425, 15221), (426, 15224), (463, 15293), (471, 15314), (472, 15317), (503, 15377), (531, 15443),

Gene: Jevington_21 Start: 15349, Stop: 16206, Start Num: 63

Candidate Starts for Jevington_21:

(Start: 63 @15349 has 55 MA's), (124, 15439), (274, 15670), (378, 15847), (471, 16042), (542, 16195), (544, 16198),

Gene: Jhitchelle_18 Start: 15308, Stop: 16165, Start Num: 62

Candidate Starts for Jhitchelle_18:

(Start: 62 @15308 has 21 MA's), (84, 15344), (Start: 112 @15380 has 1 MA's), (138, 15422), (217, 15563), (218, 15566), (276, 15638), (301, 15689), (304, 15698), (376, 15800), (378, 15806), (463, 15980), (471, 16001), (531, 16130), (542, 16154), (544, 16157),

Gene: Jifall16_39 Start: 29533, Stop: 30474, Start Num: 81

Candidate Starts for Jifall16_39:

(Start: 81 @29533 has 28 MA's), (137, 29620), (178, 29695), (214, 29761), (247, 29803), (282, 29860), (397, 30073), (405, 30100), (443, 30211), (493, 30343), (531, 30439),

Gene: JingleBells_29 Start: 17064, Stop: 17954, Start Num: 60

Candidate Starts for JingleBells_29:

(Start: 60 @17064 has 92 MA's), (215, 17319), (254, 17388), (270, 17412), (284, 17445), (399, 17634), (408, 17667), (436, 17724), (464, 17775), (507, 17865), (521, 17895), (544, 17946), (545, 17949),

Gene: Johann_21 Start: 15488, Stop: 16381, Start Num: 69

Candidate Starts for Johann_21:

(Start: 69 @15488 has 33 MA's), (133, 15581), (182, 15668), (274, 15833), (275, 15836), (340, 15959), (426, 16127), (463, 16196), (471, 16217), (472, 16220), (514, 16307), (515, 16310), (516, 16313), (531, 16346),

Gene: Johnathan_17 Start: 13145, Stop: 13999, Start Num: 66

Candidate Starts for Johnathan_17:

(Start: 66 @13145 has 131 MA's), (114, 13220), (133, 13250), (138, 13259), (204, 13358), (209, 13373), (245, 13430), (301, 13526), (304, 13535), (328, 13568), (388, 13652), (399, 13673), (456, 13790), (516, 13931), (544, 13991),

Gene: Jolene_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Jolene_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Jolie2_17 Start: 14787, Stop: 15974, Start Num: 25

Candidate Starts for Jolie2_17:

(1, 13731), (7, 14433), (Start: 25 @14787 has 250 MA's), (49, 14886), (Start: 79 @14934 has 5 MA's), (113, 14979), (116, 14985), (130, 15009), (171, 15084), (210, 15153), (211, 15156), (218, 15180), (243, 15231), (247, 15237), (275, 15282), (358, 15426), (372, 15465), (381, 15486), (416, 15591), (463, 15699), (497, 15795), (541, 15903), (547, 15936), (549, 15942),

Gene: JonJames_46 Start: 32084, Stop: 32980, Start Num: 59

Candidate Starts for JonJames_46:

(Start: 59 @32084 has 3 MA's), (130, 32171), (166, 32237), (174, 32252), (176, 32258), (284, 32429), (315, 32486), (351, 32540), (362, 32564), (406, 32663), (411, 32681), (443, 32729), (454, 32747), (463, 32771), (529, 32939),

Gene: Jonghyun_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Jonghyun_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: JorRay_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for JorRay_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Jovita_17 Start: 13220, Stop: 14074, Start Num: 66

Candidate Starts for Jovita_17:

(Start: 66 @13220 has 131 MA's), (114, 13295), (133, 13325), (138, 13334), (178, 13406), (204, 13433), (209, 13448), (245, 13505), (301, 13601), (304, 13610), (328, 13643), (388, 13727), (393, 13742), (509, 13994), (516, 14006), (544, 14066),

Gene: Joy99_22 Start: 15980, Stop: 17116, Start Num: 25

Candidate Starts for Joy99_22:

(Start: 25 @15980 has 250 MA's), (Start: 68 @16097 has 6 MA's), (130, 16187), (141, 16208), (154, 16229), (168, 16256), (302, 16511), (352, 16592), (385, 16667), (392, 16682), (443, 16793), (461, 16835), (493, 16928), (503, 16952), (541, 17045), (549, 17084), (550, 17102),

Gene: JuJu_18 Start: 15718, Stop: 16578, Start Num: 70

Candidate Starts for JuJu_18:

(Start: 70 @15718 has 24 MA's), (Start: 85 @15733 has 1 MA's), (174, 15874), (215, 15955), (352, 16162), (397, 16246), (425, 16312), (454, 16357), (492, 16447), (503, 16474), (509, 16489),

Gene: Juliette_23 Start: 17390, Stop: 18523, Start Num: 25

Candidate Starts for Juliette_23:

(Start: 25 @17390 has 250 MA's), (49, 17480), (Start: 68 @17510 has 6 MA's), (130, 17600), (154, 17642), (155, 17645), (162, 17657), (348, 17993), (351, 17999), (383, 18074), (411, 18152), (424, 18167), (443, 18200), (461, 18242), (462, 18245), (494, 18338), (541, 18452), (549, 18491), (550, 18509),

Gene: Kabluna_43 Start: 28640, Stop: 29557, Start Num: 83

Candidate Starts for Kabluna_43:

(Start: 83 @28640 has 6 MA's), (137, 28721), (158, 28757), (247, 28904), (376, 29138), (395, 29165), (443, 29309), (493, 29426), (531, 29522), (534, 29528), (540, 29543),

Gene: Kaine_19 Start: 15380, Stop: 16237, Start Num: 62

Candidate Starts for Kaine_19:

(Start: 62 @15380 has 21 MA's), (84, 15416), (Start: 112 @15452 has 1 MA's), (138, 15494), (218, 15638), (245, 15665), (376, 15872), (378, 15878), (390, 15902), (463, 16052), (531, 16202), (542, 16226), (544, 16229),

Gene: Kamdara_16 Start: 12806, Stop: 13660, Start Num: 66

Candidate Starts for Kamdara_16:

(Start: 66 @12806 has 131 MA's), (78, 12830), (89, 12851), (114, 12881), (133, 12911), (209, 13034), (242, 13085), (245, 13091), (388, 13313), (393, 13328), (399, 13334), (462, 13469), (509, 13580), (516, 13592), (544, 13652),

Gene: KappaFarmDelta_18 Start: 15961, Stop: 16821, Start Num: 72

Candidate Starts for KappaFarmDelta_18:

(Start: 68 @15955 has 6 MA's), (Start: 72 @15961 has 26 MA's), (123, 16027), (174, 16117), (215, 16198), (352, 16405), (397, 16489), (425, 16555), (427, 16561), (492, 16690), (503, 16717), (509, 16732),

Gene: Karate_29 Start: 17199, Stop: 18089, Start Num: 60

Candidate Starts for Karate_29:

(Start: 60 @17199 has 92 MA's), (138, 17319), (215, 17454), (254, 17523), (270, 17547), (284, 17580), (381, 17736), (399, 17769), (408, 17802), (464, 17910), (507, 18000), (521, 18030), (544, 18081), (545, 18084),

Gene: Kareem_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Kareem_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Kasen3_17 Start: 15478, Stop: 16650, Start Num: 25

Candidate Starts for Kasen3_17:

(7, 15145), (Start: 25 @15478 has 250 MA's), (Start: 68 @15598 has 6 MA's), (Start: 79 @15616 has 5 MA's), (113, 15661), (116, 15667), (152, 15730), (171, 15766), (210, 15835), (211, 15838), (217, 15859), (247, 15913), (275, 15958), (292, 15988), (351, 16090), (358, 16102), (362, 16114), (368, 16132), (425, 16297), (443, 16327), (451, 16345), (461, 16369), (505, 16489), (541, 16579), (547, 16612),

Gene: Katalie_20 Start: 15234, Stop: 16091, Start Num: 60

Candidate Starts for Katalie_20:

(Start: 60 @15234 has 92 MA's), (Start: 112 @15306 has 1 MA's), (124, 15324), (218, 15492), (245, 15519), (304, 15624), (378, 15732), (381, 15738), (408, 15804), (471, 15927), (542, 16080), (544, 16083),

Gene: Kate_30 Start: 17795, Stop: 18685, Start Num: 60

Candidate Starts for Kate_30:

(Start: 60 @17795 has 92 MA's), (254, 18119), (270, 18143), (284, 18176), (381, 18332), (464, 18506), (521, 18626), (544, 18677), (545, 18680),

Gene: Kate33_17 Start: 13089, Stop: 13943, Start Num: 66

Candidate Starts for Kate33_17:

(Start: 66 @13089 has 131 MA's), (89, 13134), (114, 13164), (133, 13194), (138, 13203), (245, 13374), (427, 13689), (459, 13746), (509, 13863), (516, 13875), (544, 13935),

Gene: Katzastrophic_16 Start: 12666, Stop: 13520, Start Num: 66

Candidate Starts for Katzastrophic_16:

(Start: 66 @12666 has 131 MA's), (114, 12741), (133, 12771), (162, 12819), (204, 12879), (209, 12894), (242, 12945), (245, 12951), (275, 12990), (297, 13038), (301, 13047), (328, 13089), (399, 13194), (404, 13212), (509, 13440), (514, 13446), (544, 13512),

Gene: Keiki_15 Start: 11295, Stop: 12242, Start Num: 66

Candidate Starts for Keiki_15:

(Start: 56 @11280 has 4 MA's), (Start: 61 @11286 has 4 MA's), (Start: 66 @11295 has 131 MA's), (Start: 83 @11328 has 6 MA's), (93, 11346), (95, 11349), (Start: 100 @11355 has 5 MA's), (Start: 118 @11379 has 1 MA's), (124, 11388), (140, 11418), (142, 11421), (143, 11424), (152, 11436), (161, 11451), (165, 11460), (181, 11490), (200, 11520), (207, 11535), (211, 11547), (212, 11550), (213, 11553), (224, 11586), (230, 11601), (238, 11619), (261, 11655), (265, 11661), (277, 11688), (290, 11712), (302, 11739), (319, 11766), (323, 11772), (358, 11835), (362, 11847), (383, 11889), (385, 11892), (387, 11895), (404, 11946), (408, 11961), (423, 11982), (426, 11997), (429, 12003), (433, 12012), (436, 12018), (472, 12090), (473, 12093), (494, 12111), (496, 12114), (499, 12123), (515, 12171), (521, 12183), (524, 12192), (531, 12207), (534, 12213), (540, 12228),

Gene: Kenzers_17 Start: 13132, Stop: 13986, Start Num: 66

Candidate Starts for Kenzers_17:

(Start: 66 @13132 has 131 MA's), (114, 13207), (133, 13237), (138, 13246), (204, 13345), (245, 13417), (301, 13513), (304, 13522), (328, 13555), (388, 13639), (399, 13660), (437, 13753), (456, 13777), (458, 13786), (480, 13840), (508, 13903), (516, 13918), (544, 13978),

Gene: Keshu_21 Start: 16443, Stop: 17579, Start Num: 25

Candidate Starts for Keshu_21:

(Start: 25 @16443 has 250 MA's), (Start: 68 @16566 has 6 MA's), (113, 16629), (116, 16635), (134, 16665), (154, 16698), (211, 16803), (217, 16824), (219, 16830), (253, 16887), (275, 16926), (292, 16956), (302, 16980), (345, 17043), (362, 17079), (425, 17226), (443, 17256), (446, 17265), (461, 17298), (462, 17301), (463, 17304), (493, 17391), (528, 17478), (547, 17541), (549, 17547),

Gene: Khuang_15 Start: 13016, Stop: 13963, Start Num: 56

Candidate Starts for Khuang_15:

(37, 12965), (Start: 56 @13016 has 4 MA's), (Start: 58 @13019 has 10 MA's), (144, 13160), (161, 13187), (167, 13199), (179, 13223), (181, 13226), (259, 13388), (265, 13397), (299, 13469), (313, 13496), (399, 13652), (433, 13736), (444, 13760), (492, 13826), (496, 13835), (542, 13952), (545, 13958),

Gene: KiSi_21 Start: 15189, Stop: 16325, Start Num: 25

Candidate Starts for KiSi_21:

(Start: 25 @15189 has 250 MA's), (Start: 68 @15306 has 6 MA's), (Start: 79 @15324 has 5 MA's), (141, 15417), (168, 15465), (275, 15666), (302, 15720), (332, 15765), (345, 15786), (368, 15840), (383, 15873), (392, 15891), (411, 15954), (461, 16044), (462, 16047), (481, 16098), (493, 16137), (541, 16254), (549, 16293), (550, 16311),

Gene: KidneyBean_40 Start: 29657, Stop: 30598, Start Num: 81

Candidate Starts for KidneyBean_40:

(Start: 81 @29657 has 28 MA's), (137, 29744), (178, 29819), (214, 29885), (247, 29927), (282, 29984), (397, 30197), (405, 30224), (443, 30335), (493, 30467), (531, 30563),

Gene: Kieran_16 Start: 12810, Stop: 13664, Start Num: 66

Candidate Starts for Kieran_16:

(Start: 66 @12810 has 131 MA's), (78, 12834), (89, 12855), (114, 12885), (133, 12915), (209, 13038), (242, 13089), (245, 13095), (388, 13317), (393, 13332), (399, 13338), (462, 13473), (509, 13584), (516, 13596), (544, 13656),

Gene: Kimchi1738_30 Start: 26704, Stop: 27570, Start Num: 66

Candidate Starts for Kimchi1738_30:

(Start: 66 @26704 has 131 MA's), (82, 26728), (Start: 118 @26773 has 1 MA's), (152, 26833), (219, 26968), (327, 27130), (348, 27163), (395, 27238), (402, 27262), (454, 27337), (479, 27403), (493, 27439), (505, 27466), (525, 27523),

Gene: Kita_18 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Kita_18:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500, 17663), (512, 17696),

Gene: Kors_31 Start: 17664, Stop: 18548, Start Num: 62

Candidate Starts for Kors_31:

(29, 17565), (Start: 62 @17664 has 21 MA's), (126, 17760), (138, 17781), (185, 17865), (187, 17871), (274, 18012), (374, 18180), (408, 18261), (424, 18291), (464, 18369), (470, 18381), (471, 18384), (480, 18402), (509, 18468), (513, 18471), (514, 18474), (544, 18540), (545, 18543),

Gene: Krampus_30 Start: 17793, Stop: 18683, Start Num: 60

Candidate Starts for Krampus_30:

(Start: 60 @17793 has 92 MA's), (254, 18117), (270, 18141), (284, 18174), (381, 18330), (464, 18504), (521, 18624), (544, 18675), (545, 18678),

Gene: Kratio_19 Start: 16054, Stop: 17184, Start Num: 28

Candidate Starts for Kratio_19:

(Start: 28 @16054 has 36 MA's), (113, 16228), (152, 16294), (154, 16297), (168, 16324), (217, 16423), (275, 16525), (302, 16579), (323, 16609), (345, 16645), (346, 16648), (351, 16657), (383, 16732), (385, 16735), (399, 16771), (411, 16813), (425, 16831), (427, 16837), (443, 16861), (444, 16864), (461, 16903), (498, 17008), (541, 17113), (549, 17152), (550, 17170),

Gene: Kraw_23 Start: 17413, Stop: 18546, Start Num: 25

Candidate Starts for Kraw_23:

(Start: 25 @17413 has 250 MA's), (32, 17431), (49, 17503), (Start: 68 @17533 has 6 MA's), (130, 17623), (154, 17665), (166, 17689), (218, 17794), (348, 18016), (351, 18022), (410, 18172), (411, 18175), (425, 18193), (443, 18223), (461, 18265), (462, 18268), (481, 18319), (535, 18460), (541, 18475), (549, 18514), (550, 18532),

Gene: Kromp_18 Start: 16065, Stop: 17072, Start Num: 63

Candidate Starts for Kromp_18:

(Start: 63 @16065 has 55 MA's), (140, 16185), (160, 16224), (166, 16236), (175, 16254), (219, 16350), (338, 16554), (344, 16566), (384, 16656), (386, 16659), (405, 16713), (406, 16716), (410, 16731),

(411, 16734), (482, 16896),

Gene: Krueger_21 Start: 15170, Stop: 16309, Start Num: 25

Candidate Starts for Krueger_21:

(Start: 25 @15170 has 250 MA's), (Start: 68 @15290 has 6 MA's), (130, 15380), (168, 15449), (275, 15650), (352, 15785), (354, 15788), (392, 15875), (410, 15935), (425, 15956), (443, 15986), (461, 16028), (462, 16031), (463, 16034), (493, 16121), (503, 16145), (535, 16223), (541, 16238), (549, 16277), (550, 16295),

Gene: Kubed_15 Start: 11291, Stop: 12232, Start Num: 66

Candidate Starts for Kubed_15:

(Start: 61 @11282 has 4 MA's), (Start: 66 @11291 has 131 MA's), (Start: 83 @11324 has 6 MA's), (Start: 86 @11330 has 9 MA's), (93, 11342), (Start: 118 @11369 has 1 MA's), (124, 11378), (140, 11408), (142, 11411), (143, 11414), (152, 11426), (157, 11435), (165, 11450), (181, 11480), (200, 11510), (207, 11525), (212, 11540), (213, 11543), (238, 11609), (257, 11636), (261, 11645), (265, 11651), (277, 11678), (302, 11729), (317, 11753), (323, 11762), (358, 11825), (362, 11837), (385, 11882), (387, 11885), (404, 11936), (408, 11951), (423, 11972), (426, 11987), (433, 12002), (472, 12080), (473, 12083), (494, 12101), (496, 12104), (515, 12161), (521, 12173), (524, 12182), (531, 12197), (540, 12218),

Gene: Kumotta_18 Start: 14074, Stop: 15051, Start Num: 58

Candidate Starts for Kumotta_18:

(Start: 58 @14074 has 10 MA's), (Start: 83 @14119 has 6 MA's), (Start: 97 @14140 has 1 MA's), (Start: 100 @14143 has 5 MA's), (140, 14197), (144, 14206), (152, 14215), (207, 14314), (230, 14362), (241, 14392), (343, 14572), (345, 14575), (393, 14659), (429, 14749), (438, 14770), (454, 14803), (467, 14839), (471, 14848), (487, 14902), (492, 14914), (527, 15007), (534, 15022), (537, 15031),

Gene: Kurt_40 Start: 29894, Stop: 30835, Start Num: 81

Candidate Starts for Kurt_40:

(Start: 81 @29894 has 28 MA's), (137, 29981), (178, 30056), (214, 30122), (247, 30164), (282, 30221), (397, 30434), (405, 30461), (443, 30572), (493, 30704), (531, 30800),

Gene: Labella_22 Start: 15468, Stop: 16361, Start Num: 69

Candidate Starts for Labella_22:

(Start: 69 @15468 has 33 MA's), (133, 15561), (138, 15570), (182, 15648), (209, 15699), (235, 15759), (274, 15813), (275, 15816), (276, 15822), (425, 16104), (426, 16107), (463, 16176), (471, 16197), (472, 16200), (503, 16260), (531, 16326),

Gene: Lahqtemish_17 Start: 13135, Stop: 13989, Start Num: 66

Candidate Starts for Lahqtemish_17:

(Start: 66 @13135 has 131 MA's), (89, 13180), (114, 13210), (133, 13240), (245, 13420), (399, 13663), (404, 13681), (427, 13735), (459, 13792), (509, 13909), (516, 13921), (544, 13981),

Gene: Lamberg_16 Start: 13846, Stop: 14694, Start Num: 107

Candidate Starts for Lamberg_16:

(54, 13759), (Start: 107 @13846 has 33 MA's), (114, 13852), (166, 13936), (196, 13987), (217, 14041), (223, 14056), (237, 14074), (266, 14107), (298, 14173), (308, 14194), (311, 14197), (324, 14218), (355, 14275), (459, 14497), (463, 14503), (531, 14659), (534, 14665),

Gene: Lannister_20 Start: 15000, Stop: 15857, Start Num: 60

Candidate Starts for Lannister_20:

(Start: 60 @15000 has 92 MA's), (Start: 112 @15072 has 1 MA's), (124, 15090), (142, 15120), (218, 15258), (245, 15285), (331, 15432), (376, 15492), (378, 15498), (381, 15504), (405, 15558), (408,

15570), (463, 15672), (471, 15693), (542, 15846), (544, 15849),

Gene: Larva_20 Start: 16169, Stop: 17299, Start Num: 28

Candidate Starts for Larva_20:

(Start: 28 @16169 has 36 MA's), (113, 16343), (152, 16409), (168, 16439), (217, 16538), (275, 16640), (302, 16694), (323, 16724), (345, 16760), (346, 16763), (351, 16772), (383, 16847), (385, 16850), (399, 16886), (411, 16928), (425, 16946), (427, 16952), (443, 16976), (444, 16979), (461, 17018), (497, 17120), (541, 17228), (549, 17267), (550, 17285),

Gene: LastHope_22 Start: 15314, Stop: 16450, Start Num: 25

Candidate Starts for LastHope_22:

(Start: 25 @15314 has 250 MA's), (Start: 68 @15431 has 6 MA's), (141, 15542), (168, 15590), (218, 15692), (302, 15845), (352, 15926), (392, 16016), (443, 16127), (461, 16169), (493, 16262), (503, 16286), (541, 16379), (549, 16418), (550, 16436),

Gene: LaterM_22 Start: 15979, Stop: 17115, Start Num: 25

Candidate Starts for LaterM_22:

(Start: 25 @15979 has 250 MA's), (Start: 68 @16096 has 6 MA's), (141, 16207), (154, 16228), (168, 16255), (218, 16357), (302, 16510), (352, 16591), (392, 16681), (443, 16792), (461, 16834), (493, 16927), (503, 16951), (541, 17044), (549, 17083), (550, 17101),

Gene: Lauchelly_15 Start: 11298, Stop: 12245, Start Num: 66

Candidate Starts for Lauchelly_15:

(Start: 61 @11289 has 4 MA's), (Start: 63 @11292 has 55 MA's), (Start: 66 @11298 has 131 MA's), (Start: 83 @11331 has 6 MA's), (93, 11349), (95, 11352), (Start: 100 @11358 has 5 MA's), (Start: 118 @11382 has 1 MA's), (124, 11391), (140, 11421), (142, 11424), (143, 11427), (152, 11439), (157, 11448), (165, 11463), (181, 11493), (200, 11523), (207, 11538), (209, 11544), (213, 11556), (230, 11604), (238, 11622), (257, 11649), (261, 11658), (265, 11664), (277, 11691), (290, 11715), (302, 11742), (317, 11766), (323, 11775), (358, 11838), (362, 11850), (383, 11892), (385, 11895), (387, 11898), (404, 11949), (408, 11964), (423, 11985), (426, 12000), (433, 12015), (436, 12021), (472, 12093), (473, 12096), (494, 12114), (496, 12117), (515, 12174), (521, 12186), (524, 12195), (531, 12210), (534, 12216), (540, 12231),

Gene: Lavahound_20 Start: 16119, Stop: 17255, Start Num: 25

Candidate Starts for Lavahound_20:

(Start: 25 @16119 has 250 MA's), (Start: 68 @16236 has 6 MA's), (102, 16287), (168, 16395), (218, 16497), (219, 16500), (275, 16596), (302, 16650), (345, 16716), (351, 16728), (461, 16974), (462, 16977), (503, 17091), (541, 17184), (549, 17223), (550, 17241),

Gene: LeMond_21 Start: 15260, Stop: 16396, Start Num: 25

Candidate Starts for LeMond_21:

(Start: 25 @15260 has 250 MA's), (Start: 68 @15377 has 6 MA's), (Start: 79 @15395 has 5 MA's), (113, 15440), (141, 15488), (168, 15536), (275, 15737), (302, 15791), (332, 15836), (345, 15857), (368, 15911), (383, 15944), (392, 15962), (411, 16025), (461, 16115), (462, 16118), (481, 16169), (493, 16208), (541, 16325), (549, 16364), (550, 16382),

Gene: Lea83_21 Start: 16440, Stop: 17576, Start Num: 25

Candidate Starts for Lea83_21:

(Start: 25 @16440 has 250 MA's), (Start: 68 @16563 has 6 MA's), (113, 16626), (116, 16632), (134, 16662), (211, 16800), (217, 16821), (219, 16827), (253, 16884), (275, 16923), (292, 16953), (345, 17040), (362, 17076), (425, 17223), (443, 17253), (446, 17262), (461, 17295), (462, 17298), (463, 17301), (493, 17388), (528, 17475), (547, 17538), (549, 17544),

Gene: Lebo14_23 Start: 17506, Stop: 18639, Start Num: 25

Candidate Starts for Lebo14_23:

(Start: 25 @17506 has 250 MA's), (32, 17524), (49, 17596), (Start: 68 @17626 has 6 MA's), (130, 17716), (154, 17758), (166, 17782), (218, 17887), (302, 18040), (348, 18109), (351, 18115), (411, 18268), (425, 18286), (443, 18316), (461, 18358), (462, 18361), (535, 18553), (541, 18568), (549, 18607), (550, 18625),

Gene: Legacy_19 Start: 14964, Stop: 15821, Start Num: 60

Candidate Starts for Legacy_19:

(Start: 60 @14964 has 92 MA's), (Start: 112 @15036 has 1 MA's), (124, 15054), (142, 15084), (162, 15117), (218, 15222), (245, 15249), (302, 15351), (331, 15396), (378, 15462), (381, 15468), (405, 15522), (408, 15534), (463, 15636), (466, 15648), (471, 15657), (542, 15810), (544, 15813),

Gene: Lemuria_17 Start: 14821, Stop: 16008, Start Num: 25

Candidate Starts for Lemuria_17:

(Start: 25 @14821 has 250 MA's), (Start: 79 @14968 has 5 MA's), (113, 15013), (116, 15019), (166, 15109), (210, 15187), (211, 15190), (217, 15211), (218, 15214), (243, 15265), (247, 15271), (275, 15316), (358, 15460), (368, 15490), (383, 15523), (416, 15625), (427, 15661), (443, 15685), (463, 15733), (497, 15829), (532, 15916), (541, 15937), (547, 15970), (549, 15976),

Gene: Lesiram_22 Start: 14235, Stop: 15098, Start Num: 67

Candidate Starts for Lesiram_22:

(Start: 66 @14232 has 131 MA's), (Start: 67 @14235 has 11 MA's), (131, 14325), (133, 14331), (138, 14340), (176, 14409), (182, 14418), (185, 14424), (220, 14490), (275, 14556), (286, 14583), (304, 14622), (378, 14739), (381, 14745), (393, 14772), (404, 14796), (463, 14913), (465, 14922), (480, 14952), (531, 15063), (540, 15084),

Gene: Leston_20 Start: 16453, Stop: 17583, Start Num: 28

Candidate Starts for Leston_20:

(Start: 28 @16453 has 36 MA's), (152, 16693), (154, 16696), (168, 16723), (217, 16822), (275, 16924), (302, 16978), (323, 17008), (345, 17044), (346, 17047), (351, 17056), (383, 17131), (385, 17134), (411, 17212), (425, 17230), (427, 17236), (443, 17260), (444, 17263), (446, 17269), (461, 17302), (541, 17512), (549, 17551), (550, 17569),

Gene: Leviosa_15 Start: 11312, Stop: 12259, Start Num: 66

Candidate Starts for Leviosa_15:

(Start: 56 @11297 has 4 MA's), (Start: 61 @11303 has 4 MA's), (Start: 66 @11312 has 131 MA's), (Start: 83 @11345 has 6 MA's), (93, 11363), (95, 11366), (Start: 100 @11372 has 5 MA's), (Start: 118 @11396 has 1 MA's), (124, 11405), (140, 11435), (142, 11438), (143, 11441), (152, 11453), (157, 11462), (181, 11507), (200, 11537), (207, 11552), (211, 11564), (213, 11570), (230, 11618), (238, 11636), (257, 11663), (261, 11672), (265, 11678), (277, 11705), (302, 11756), (317, 11780), (323, 11789), (358, 11852), (362, 11864), (383, 11906), (385, 11909), (387, 11912), (404, 11963), (408, 11978), (423, 11999), (426, 12014), (433, 12029), (436, 12035), (472, 12107), (473, 12110), (494, 12128), (496, 12131), (499, 12140), (515, 12188), (521, 12200), (524, 12209), (531, 12224), (534, 12230), (540, 12245),

Gene: Leviticus_19 Start: 14993, Stop: 15850, Start Num: 60

Candidate Starts for Leviticus_19:

(Start: 60 @14993 has 92 MA's), (Start: 112 @15065 has 1 MA's), (124, 15083), (142, 15113), (162, 15146), (218, 15251), (245, 15278), (302, 15380), (331, 15425), (378, 15491), (381, 15497), (405, 15551), (408, 15563), (463, 15665), (466, 15677), (471, 15686), (542, 15839), (544, 15842),

Gene: Liefie_17 Start: 15476, Stop: 16648, Start Num: 25

Candidate Starts for Liefie_17:

(7, 15143), (Start: 25 @15476 has 250 MA's), (Start: 68 @15596 has 6 MA's), (Start: 79 @15614 has 5 MA's), (113, 15659), (116, 15665), (152, 15728), (171, 15764), (210, 15833), (211, 15836), (217, 15857), (247, 15911), (275, 15956), (292, 15986), (351, 16088), (358, 16100), (368, 16130), (425, 16295), (443, 16325), (451, 16343), (461, 16367), (505, 16487), (541, 16577), (547, 16610),

Gene: Lika_19 Start: 14998, Stop: 15855, Start Num: 60

Candidate Starts for Lika_19:

(Start: 60 @14998 has 92 MA's), (Start: 112 @15070 has 1 MA's), (124, 15088), (162, 15151), (218, 15256), (245, 15283), (304, 15388), (331, 15430), (378, 15496), (405, 15556), (408, 15568), (436, 15625), (463, 15670), (471, 15691), (542, 15844), (544, 15847),

Gene: LilBandit_15 Start: 11296, Stop: 12243, Start Num: 66

Candidate Starts for LilBandit_15:

(Start: 56 @11281 has 4 MA's), (Start: 61 @11287 has 4 MA's), (Start: 66 @11296 has 131 MA's), (Start: 83 @11329 has 6 MA's), (93, 11347), (95, 11350), (Start: 100 @11356 has 5 MA's), (Start: 118 @11380 has 1 MA's), (124, 11389), (140, 11419), (142, 11422), (143, 11425), (152, 11437), (157, 11446), (181, 11491), (200, 11521), (207, 11536), (211, 11548), (213, 11554), (230, 11602), (238, 11620), (257, 11647), (261, 11656), (265, 11662), (277, 11689), (299, 11731), (302, 11740), (317, 11764), (323, 11773), (358, 11836), (362, 11848), (383, 11890), (385, 11893), (387, 11896), (399, 11929), (404, 11947), (408, 11962), (423, 11983), (426, 11998), (433, 12013), (436, 12019), (472, 12091), (473, 12094), (494, 12112), (496, 12115), (499, 12124), (515, 12172), (521, 12184), (524, 12193), (531, 12208), (534, 12214), (540, 12229),

Gene: LilDirt_19 Start: 16180, Stop: 17310, Start Num: 28

Candidate Starts for LilDirt_19:

(Start: 28 @16180 has 36 MA's), (113, 16354), (152, 16420), (154, 16423), (168, 16450), (217, 16549), (275, 16651), (302, 16705), (323, 16735), (345, 16771), (346, 16774), (351, 16783), (383, 16858), (385, 16861), (399, 16897), (411, 16939), (425, 16957), (427, 16963), (443, 16987), (444, 16990), (461, 17029), (541, 17239), (549, 17278), (550, 17296),

Gene: LilPharaoh_18 Start: 15554, Stop: 16696, Start Num: 25

Candidate Starts for LilPharaoh_18:

(Start: 25 @15554 has 250 MA's), (Start: 68 @15677 has 6 MA's), (130, 15767), (168, 15836), (217, 15935), (218, 15938), (275, 16037), (352, 16172), (443, 16373), (461, 16415), (462, 16418), (493, 16508), (503, 16532), (541, 16625), (549, 16664), (550, 16682),

Gene: Lilo27_17 Start: 13092, Stop: 13946, Start Num: 66

Candidate Starts for Lilo27_17:

(Start: 66 @13092 has 131 MA's), (114, 13167), (133, 13197), (138, 13206), (204, 13305), (209, 13320), (245, 13377), (301, 13473), (304, 13482), (328, 13515), (388, 13599), (393, 13614), (509, 13866), (516, 13878), (544, 13938),

Gene: LimaBean_17 Start: 13144, Stop: 13998, Start Num: 66

Candidate Starts for LimaBean_17:

(Start: 66 @13144 has 131 MA's), (114, 13219), (133, 13249), (138, 13258), (204, 13357), (209, 13372), (245, 13429), (301, 13525), (304, 13534), (328, 13567), (388, 13651), (399, 13672), (456, 13789), (516, 13930), (544, 13990),

Gene: Linayshia_20 Start: 15510, Stop: 16403, Start Num: 69

Candidate Starts for Linayshia_20:

(Start: 69 @15510 has 33 MA's), (133, 15603), (182, 15690), (209, 15741), (274, 15855), (275, 15858), (276, 15864), (304, 15924), (425, 16146), (426, 16149), (463, 16218), (471, 16239), (472, 16242),

Gene: LindNT_22 Start: 15985, Stop: 17121, Start Num: 25

Candidate Starts for LindNT_22:

(Start: 25 @15985 has 250 MA's), (Start: 68 @16102 has 6 MA's), (130, 16192), (141, 16213), (154, 16234), (168, 16261), (302, 16516), (352, 16597), (385, 16672), (392, 16687), (443, 16798), (461, 16840), (493, 16933), (503, 16957), (541, 17050), (549, 17089), (550, 17107),

Gene: Llorens_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Llorens_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Lollipop1437_45 Start: 30536, Stop: 31453, Start Num: 81

Candidate Starts for Lollipop1437_45:

(Start: 81 @30536 has 28 MA's), (137, 30614), (178, 30689), (247, 30797), (297, 30881), (395, 31061), (397, 31067), (476, 31283), (493, 31322), (521, 31397), (531, 31418), (540, 31439),

Gene: LongHai_21 Start: 15192, Stop: 16304, Start Num: 27

Candidate Starts for LongHai_21:

(Start: 27 @15192 has 5 MA's), (35, 15240), (Start: 106 @15348 has 19 MA's), (113, 15357), (155, 15426), (170, 15453), (243, 15600), (304, 15708), (351, 15783), (356, 15792), (369, 15828), (399, 15897), (411, 15939), (443, 15984), (446, 15993), (470, 16050), (487, 16101), (510, 16161), (547, 16266),

Gene: Loofah_20 Start: 14964, Stop: 15821, Start Num: 63

Candidate Starts for Loofah_20:

(Start: 63 @14964 has 55 MA's), (99, 15018), (124, 15054), (378, 15462), (472, 15660), (542, 15810), (544, 15813),

Gene: LordBart_31 Start: 17580, Stop: 18464, Start Num: 62

Candidate Starts for LordBart_31:

(29, 17481), (Start: 62 @17580 has 21 MA's), (126, 17676), (138, 17697), (185, 17781), (187, 17787), (274, 17928), (408, 18177), (424, 18207), (464, 18285), (470, 18297), (471, 18300), (480, 18318), (509, 18384), (513, 18387), (514, 18390), (544, 18456), (545, 18459),

Gene: LordFarquaad_16 Start: 13903, Stop: 14751, Start Num: 107

Candidate Starts for LordFarquaad_16:

(Start: 107 @13903 has 33 MA's), (114, 13909), (196, 14044), (237, 14131), (266, 14164), (308, 14251), (311, 14254), (324, 14275), (338, 14299), (355, 14332), (459, 14554), (463, 14560), (534, 14722),

Gene: Lorelei_19 Start: 14967, Stop: 15824, Start Num: 60

Candidate Starts for Lorelei_19:

(Start: 60 @14967 has 92 MA's), (Start: 112 @15039 has 1 MA's), (142, 15087), (162, 15120), (218, 15225), (245, 15252), (284, 15315), (304, 15357), (374, 15456), (376, 15459), (378, 15465), (408, 15537), (436, 15594), (466, 15651), (471, 15660), (542, 15813), (544, 15816),

Gene: Losacky_24 Start: 13845, Stop: 14705, Start Num: 69

Candidate Starts for Losacky_24:

(Start: 69 @13845 has 33 MA's), (89, 13881), (Start: 92 @13884 has 1 MA's), (Start: 112 @13905 has 1 MA's), (Start: 115 @13911 has 37 MA's), (124, 13923), (133, 13938), (171, 14004), (185, 14031), (209, 14061), (219, 14094), (286, 14187), (300, 14214), (376, 14337), (378, 14343), (393, 14376),

(427, 14454), (540, 14691), (542, 14694),

Gene: LouisV14_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for LouisV14_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Loviatar_17 Start: 13062, Stop: 13919, Start Num: 66

Candidate Starts for Loviatar_17:

(Start: 66 @13062 has 131 MA's), (78, 13086), (89, 13107), (114, 13137), (133, 13167), (140, 13179), (204, 13275), (209, 13290), (211, 13296), (245, 13347), (284, 13410), (301, 13443), (328, 13485), (399, 13590), (401, 13599), (404, 13608), (454, 13704), (509, 13839), (516, 13851), (544, 13911),

Gene: Lozinak_47 Start: 28712, Stop: 29593, Start Num: 74

Candidate Starts for Lozinak_47:

(Start: 70 @28706 has 24 MA's), (Start: 74 @28712 has 13 MA's), (Start: 110 @28760 has 2 MA's), (130, 28787), (170, 28859), (208, 28925), (217, 28955), (293, 29063), (351, 29156), (362, 29180), (367, 29195), (411, 29291), (443, 29339), (514, 29519), (530, 29555),

Gene: Lton_16 Start: 13875, Stop: 14723, Start Num: 107

Candidate Starts for Lton_16:

(54, 13788), (Start: 107 @13875 has 33 MA's), (114, 13881), (166, 13965), (196, 14016), (217, 14070), (237, 14103), (266, 14136), (298, 14202), (308, 14223), (311, 14226), (324, 14247), (355, 14304), (459, 14526), (463, 14532), (531, 14688), (534, 14694),

Gene: Lunahalos_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Lunahalos_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Lynlen_17 Start: 13132, Stop: 13986, Start Num: 66

Candidate Starts for Lynlen_17:

(Start: 66 @13132 has 131 MA's), (114, 13207), (133, 13237), (138, 13246), (204, 13345), (245, 13417), (301, 13513), (304, 13522), (328, 13555), (388, 13639), (399, 13660), (437, 13753), (456, 13777), (458, 13786), (480, 13840), (508, 13903), (516, 13918), (544, 13978),

Gene: Lysidious_19 Start: 16311, Stop: 17177, Start Num: 68

Candidate Starts for Lysidious_19:

(Start: 68 @16311 has 6 MA's), (Start: 72 @16317 has 26 MA's), (174, 16473), (215, 16554), (261, 16611), (267, 16620), (286, 16653), (352, 16761), (397, 16845), (425, 16911), (427, 16917), (492, 17046), (509, 17088),

Gene: MEAK_15 Start: 11282, Stop: 12229, Start Num: 66

Candidate Starts for MEAK_15:

(Start: 61 @11273 has 4 MA's), (Start: 63 @11276 has 55 MA's), (Start: 66 @11282 has 131 MA's), (Start: 83 @11315 has 6 MA's), (93, 11333), (95, 11336), (Start: 100 @11342 has 5 MA's), (Start: 118 @11366 has 1 MA's), (124, 11375), (140, 11405), (142, 11408), (143, 11411), (157, 11432), (181, 11477), (200, 11507), (207, 11522), (211, 11534), (212, 11537), (213, 11540), (230, 11588), (238, 11606), (261, 11642), (265, 11648), (277, 11675), (290, 11699), (302, 11726), (319, 11753), (323,

11759), (358, 11822), (362, 11834), (383, 11876), (385, 11879), (387, 11882), (399, 11915), (404, 11933), (408, 11948), (423, 11969), (426, 11984), (433, 11999), (436, 12005), (472, 12077), (473, 12080), (494, 12098), (496, 12101), (499, 12110), (515, 12158), (521, 12170), (524, 12179), (531, 12194), (534, 12200), (540, 12215),

Gene: MOOREtheMARYer_17 Start: 15720, Stop: 16898, Start Num: 25

Candidate Starts for MOOREtheMARYer_17:

(Start: 17 @15684 has 2 MA's), (Start: 25 @15720 has 250 MA's), (Start: 79 @15864 has 5 MA's), (116, 15915), (154, 15981), (155, 15984), (171, 16014), (211, 16086), (243, 16155), (247, 16161), (326, 16296), (358, 16350), (381, 16410), (417, 16518), (425, 16545), (443, 16575), (461, 16617), (497, 16719), (524, 16791), (526, 16794), (535, 16812), (547, 16860),

Gene: MZKinsey_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for MZKinsey_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Mabodamaca_16 Start: 13111, Stop: 13977, Start Num: 63

Candidate Starts for Mabodamaca_16:

(Start: 63 @13111 has 55 MA's), (Start: 115 @13195 has 37 MA's), (135, 13225), (185, 13315), (187, 13321), (378, 13624), (516, 13909),

Gene: MacGully_49 Start: 30719, Stop: 31612, Start Num: 110

Candidate Starts for MacGully_49:

(46, 30635), (Start: 77 @30683 has 1 MA's), (Start: 110 @30719 has 2 MA's), (113, 30722), (209, 30890), (211, 30896), (288, 31013), (297, 31031), (302, 31046), (351, 31121), (376, 31181), (395, 31220), (397, 31226), (443, 31364), (469, 31424), (482, 31457), (493, 31481), (515, 31544), (531, 31577), (534, 31583),

Gene: MacKat_22 Start: 16028, Stop: 17164, Start Num: 25

Candidate Starts for MacKat_22:

(Start: 25 @16028 has 250 MA's), (Start: 68 @16145 has 6 MA's), (130, 16235), (141, 16256), (154, 16277), (168, 16304), (302, 16559), (352, 16640), (385, 16715), (392, 16730), (443, 16841), (461, 16883), (493, 16976), (503, 17000), (541, 17093), (549, 17132), (550, 17150),

Gene: MacnCheese_22 Start: 16685, Stop: 17821, Start Num: 25

Candidate Starts for MacnCheese_22:

(Start: 25 @16685 has 250 MA's), (Start: 68 @16808 has 6 MA's), (113, 16871), (116, 16877), (130, 16898), (134, 16907), (154, 16940), (211, 17045), (217, 17066), (275, 17168), (292, 17198), (302, 17222), (319, 17243), (345, 17285), (362, 17321), (425, 17468), (443, 17498), (446, 17507), (461, 17540), (462, 17543), (463, 17546), (493, 17633), (508, 17672), (528, 17720), (546, 17777), (547, 17783), (549, 17789),

Gene: Maco6_18 Start: 14149, Stop: 15261, Start Num: 27

Candidate Starts for Maco6_18:

(Start: 27 @14149 has 5 MA's), (35, 14197), (Start: 106 @14305 has 19 MA's), (113, 14314), (155, 14383), (162, 14395), (170, 14410), (243, 14557), (304, 14665), (351, 14740), (356, 14749), (369, 14785), (399, 14854), (411, 14896), (443, 14941), (446, 14950), (470, 15007), (508, 15112), (547, 15223),

Gene: Madavieve_18 Start: 17220, Stop: 18047, Start Num: 115

Candidate Starts for Madavieve_18:

(Start: 115 @17220 has 37 MA's), (163, 17295), (221, 17415), (223, 17421), (275, 17487), (279, 17499), (308, 17556), (314, 17565), (338, 17601), (342, 17610), (355, 17631), (399, 17715), (429, 17790), (442, 17811), (500, 17934), (512, 17967),

Gene: Madeline_18 Start: 17238, Stop: 18065, Start Num: 115

Candidate Starts for Madeline_18:

(Start: 115 @17238 has 37 MA's), (151, 17292), (166, 17319), (221, 17433), (223, 17439), (235, 17454), (311, 17577), (338, 17619), (342, 17628), (355, 17649), (399, 17733), (429, 17808), (500, 17952), (512, 17985),

Gene: Maja_17 Start: 13790, Stop: 14692, Start Num: 56

Candidate Starts for Maja_17:

(Start: 56 @13790 has 4 MA's), (Start: 83 @13838 has 6 MA's), (Start: 97 @13859 has 1 MA's), (Start: 100 @13862 has 5 MA's), (172, 13973), (181, 13991), (198, 14018), (200, 14021), (207, 14036), (230, 14084), (278, 14159), (285, 14174), (302, 14210), (319, 14237), (399, 14381), (408, 14414), (429, 14456), (441, 14483), (467, 14531), (499, 14573), (515, 14621), (521, 14633),

Gene: Malachai_19 Start: 16271, Stop: 17131, Start Num: 72

Candidate Starts for Malachai_19:

(Start: 68 @16265 has 6 MA's), (Start: 72 @16271 has 26 MA's), (174, 16427), (215, 16508), (286, 16607), (352, 16715), (397, 16799), (427, 16871), (492, 17000), (509, 17042),

Gene: MalagasyRose_23 Start: 15476, Stop: 16555, Start Num: 47

Candidate Starts for MalagasyRose_23:

(Start: 47 @15476 has 1 MA's), (75, 15518), (Start: 86 @15542 has 9 MA's), (113, 15581), (155, 15650), (168, 15674), (171, 15680), (192, 15719), (218, 15776), (235, 15803), (239, 15809), (253, 15830), (256, 15833), (282, 15881), (292, 15899), (302, 15923), (304, 15926), (345, 15989), (351, 16001), (356, 16010), (359, 16016), (368, 16043), (369, 16046), (391, 16091), (404, 16133), (425, 16187), (435, 16205), (472, 16307), (481, 16328), (487, 16352), (526, 16454), (535, 16472), (541, 16487), (548, 16523),

Gene: Maliketh_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Maliketh_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Malthus_24 Start: 17413, Stop: 18546, Start Num: 25

Candidate Starts for Malthus_24:

(Start: 25 @17413 has 250 MA's), (32, 17431), (49, 17503), (Start: 68 @17533 has 6 MA's), (130, 17623), (154, 17665), (166, 17689), (218, 17794), (348, 18016), (351, 18022), (410, 18172), (411, 18175), (425, 18193), (443, 18223), (461, 18265), (462, 18268), (481, 18319), (535, 18460), (541, 18475), (549, 18514), (550, 18532),

Gene: Manasvini_18 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Manasvini_18:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500, 17663), (512, 17696),

Gene: Maneekul_19 Start: 14965, Stop: 15822, Start Num: 60

Candidate Starts for Maneekul_19:

(Start: 60 @14965 has 92 MA's), (Start: 112 @15037 has 1 MA's), (124, 15055), (218, 15223), (245, 15250), (378, 15463), (381, 15469), (408, 15535), (436, 15592), (463, 15637), (471, 15658), (530, 15784), (542, 15811), (544, 15814),

Gene: Marav_22 Start: 15699, Stop: 16556, Start Num: 63

Candidate Starts for Marav_22:

(Start: 63 @15699 has 55 MA's), (124, 15789), (274, 16020), (289, 16056), (378, 16197), (471, 16392), (542, 16545), (544, 16548),

Gene: Marcoliusprime_18 Start: 13889, Stop: 15016, Start Num: 28

Candidate Starts for Marcoliusprime_18:

(Start: 28 @13889 has 36 MA's), (32, 13898), (Start: 68 @14000 has 6 MA's), (130, 14090), (154, 14132), (155, 14135), (168, 14159), (217, 14258), (253, 14321), (275, 14360), (302, 14414), (345, 14480), (351, 14492), (372, 14543), (383, 14567), (411, 14645), (425, 14663), (443, 14693), (446, 14702), (461, 14735), (462, 14738), (503, 14852), (535, 14930), (541, 14945), (549, 14984), (550, 15002),

Gene: Mareelih_98 Start: 58510, Stop: 59445, Start Num: 71

Candidate Starts for Mareelih_98:

(Start: 71 @58510 has 6 MA's), (88, 58525), (Start: 94 @58531 has 6 MA's), (98, 58537), (166, 58654), (168, 58657), (197, 58708), (213, 58744), (301, 58879), (322, 58915), (345, 58945), (448, 59197), (463, 59242), (473, 59272), (480, 59278), (487, 59305), (503, 59344), (534, 59413),

Gene: MargaretKali_18 Start: 13709, Stop: 14686, Start Num: 58

Candidate Starts for MargaretKali_18:

(Start: 58 @13709 has 10 MA's), (Start: 83 @13754 has 6 MA's), (Start: 97 @13775 has 1 MA's), (Start: 100 @13778 has 5 MA's), (140, 13832), (144, 13841), (152, 13850), (207, 13949), (230, 13997), (241, 14027), (343, 14207), (345, 14210), (393, 14294), (429, 14384), (438, 14405), (454, 14438), (467, 14474), (471, 14483), (487, 14537), (492, 14549), (527, 14642), (534, 14657), (537, 14666),

Gene: Maridalia_17 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Maridalia_17:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500, 17663), (512, 17696),

Gene: Mariel_24 Start: 14137, Stop: 14997, Start Num: 69

Candidate Starts for Mariel_24:

(Start: 69 @14137 has 33 MA's), (89, 14173), (Start: 92 @14176 has 1 MA's), (Start: 112 @14197 has 1 MA's), (Start: 115 @14203 has 37 MA's), (124, 14215), (131, 14224), (133, 14230), (185, 14323), (209, 14353), (219, 14386), (286, 14479), (300, 14506), (376, 14629), (378, 14635), (393, 14668), (427, 14746), (515, 14926), (540, 14983), (542, 14986),

Gene: Marietta_42 Start: 26965, Stop: 27885, Start Num: 86

Candidate Starts for Marietta_42:

(Start: 86 @26965 has 9 MA's), (137, 27046), (163, 27091), (205, 27160), (282, 27286), (302, 27328), (356, 27412), (376, 27463), (397, 27496), (422, 27586), (469, 27694), (476, 27712), (493, 27754), (529, 27844), (531, 27850), (540, 27871),

Gene: MarkPhew_22 Start: 15151, Stop: 16287, Start Num: 25

Candidate Starts for MarkPhew_22:

(Start: 25 @15151 has 250 MA's), (Start: 68 @15268 has 6 MA's), (Start: 79 @15286 has 5 MA's), (130, 15358), (141, 15379), (168, 15427), (218, 15529), (219, 15532), (275, 15628), (332, 15727), (345, 15748), (383, 15835), (392, 15853), (411, 15916), (461, 16006), (462, 16009), (493, 16099), (541, 16216), (546, 16243), (549, 16255), (550, 16273),

Gene: Marmie_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Marmie_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Marshawn_23 Start: 15766, Stop: 16905, Start Num: 25

Candidate Starts for Marshawn_23:

(20, 15754), (Start: 25 @15766 has 250 MA's), (Start: 68 @15886 has 6 MA's), (130, 15976), (168, 16045), (275, 16246), (302, 16300), (345, 16366), (351, 16378), (372, 16429), (427, 16558), (443, 16582), (461, 16624), (462, 16627), (463, 16630), (481, 16678), (493, 16717), (546, 16861), (549, 16873), (550, 16891),

Gene: Maselop_44 Start: 30439, Stop: 31365, Start Num: 79

Candidate Starts for Maselop_44:

(Start: 79 @30439 has 5 MA's), (Start: 110 @30475 has 2 MA's), (178, 30592), (205, 30631), (211, 30649), (247, 30700), (302, 30799), (351, 30874), (356, 30883), (390, 30958), (397, 30979), (443, 31117), (461, 31153), (475, 31192), (493, 31234), (515, 31297), (531, 31330),

Gene: Matteo_16 Start: 13846, Stop: 14694, Start Num: 107

Candidate Starts for Matteo_16:

(54, 13759), (Start: 107 @13846 has 33 MA's), (114, 13852), (163, 13930), (166, 13936), (196, 13987), (237, 14074), (266, 14107), (308, 14194), (311, 14197), (324, 14218), (355, 14275), (459, 14497), (463, 14503), (534, 14665),

Gene: Mbo4_16 Start: 14927, Stop: 15760, Start Num: 111

Candidate Starts for Mbo4_16:

(111, 14927), (168, 15017), (207, 15086), (213, 15104), (221, 15128), (235, 15149), (254, 15173), (308, 15278), (381, 15401), (406, 15464), (426, 15509), (436, 15530), (437, 15533), (447, 15536),

Gene: McMater_22 Start: 15375, Stop: 16514, Start Num: 25

Candidate Starts for McMater_22:

(Start: 25 @15375 has 250 MA's), (Start: 68 @15495 has 6 MA's), (130, 15585), (168, 15654), (217, 15753), (218, 15756), (275, 15855), (302, 15909), (352, 15990), (385, 16065), (392, 16080), (427, 16167), (443, 16191), (461, 16233), (462, 16236), (481, 16287), (493, 16326), (526, 16410), (535, 16428), (541, 16443), (549, 16482), (550, 16500),

Gene: Mcklovin_19 Start: 19238, Stop: 20074, Start Num: 106

Candidate Starts for Mcklovin_19:

(Start: 106 @19238 has 19 MA's), (Start: 115 @19247 has 37 MA's), (143, 19289), (163, 19322), (171, 19337), (223, 19448), (225, 19454), (262, 19493), (291, 19547), (298, 19562), (311, 19586), (314, 19592), (338, 19628), (355, 19658), (361, 19667), (429, 19817), (472, 19907), (512, 19994),

Gene: Mdavu_18 Start: 15542, Stop: 16684, Start Num: 25

Candidate Starts for Mdavu_18:

(Start: 25 @15542 has 250 MA's), (Start: 68 @15665 has 6 MA's), (130, 15755), (168, 15824), (217, 15923), (218, 15926), (275, 16025), (352, 16160), (443, 16361), (461, 16403), (462, 16406), (493, 16496), (503, 16520), (541, 16613), (549, 16652), (550, 16670),

Gene: MeaningOfLife_22 Start: 15987, Stop: 17123, Start Num: 25

Candidate Starts for MeaningOfLife_22:

(Start: 25 @15987 has 250 MA's), (Start: 68 @16104 has 6 MA's), (130, 16194), (141, 16215), (154, 16236), (168, 16263), (302, 16518), (352, 16599), (385, 16674), (392, 16689), (443, 16800), (446, 16809), (461, 16842), (493, 16935), (503, 16959), (541, 17052), (549, 17091), (550, 17109),

Gene: Megsy_22 Start: 15988, Stop: 17124, Start Num: 25

Candidate Starts for Megsy_22:

(Start: 25 @15988 has 250 MA's), (Start: 68 @16105 has 6 MA's), (130, 16195), (141, 16216), (154, 16237), (168, 16264), (302, 16519), (352, 16600), (385, 16675), (392, 16690), (443, 16801), (461, 16843), (493, 16936), (498, 16948), (503, 16960), (541, 17053), (549, 17092), (550, 17110),

Gene: Melba_18 Start: 15787, Stop: 16653, Start Num: 68

Candidate Starts for Melba_18:

(Start: 68 @15787 has 6 MA's), (Start: 72 @15793 has 26 MA's), (174, 15949), (215, 16030), (286, 16129), (352, 16237), (397, 16321), (427, 16393), (492, 16522), (503, 16549), (509, 16564),

Gene: Mellie_17 Start: 15554, Stop: 16414, Start Num: 72

Candidate Starts for Mellie_17:

(Start: 68 @15548 has 6 MA's), (Start: 72 @15554 has 26 MA's), (174, 15710), (215, 15791), (286, 15890), (352, 15998), (397, 16082), (425, 16148), (454, 16193), (492, 16283), (509, 16325),

Gene: MenE_23 Start: 13833, Stop: 14693, Start Num: 69

Candidate Starts for MenE_23:

(Start: 69 @13833 has 33 MA's), (89, 13869), (Start: 92 @13872 has 1 MA's), (Start: 112 @13893 has 1 MA's), (Start: 115 @13899 has 37 MA's), (124, 13911), (133, 13926), (171, 13992), (185, 14019), (209, 14049), (219, 14082), (286, 14175), (300, 14202), (376, 14325), (378, 14331), (393, 14364), (427, 14442), (540, 14679), (542, 14682),

Gene: MerCougar_41 Start: 29816, Stop: 30739, Start Num: 81

Candidate Starts for MerCougar_41:

(Start: 81 @29816 has 28 MA's), (137, 29903), (158, 29939), (178, 29978), (395, 30347), (443, 30491), (493, 30608), (531, 30704), (534, 30710), (540, 30725),

Gene: Mercurio_18 Start: 15481, Stop: 16668, Start Num: 25

Candidate Starts for Mercurio_18:

(Start: 25 @15481 has 250 MA's), (Start: 79 @15628 has 5 MA's), (113, 15673), (116, 15679), (166, 15769), (210, 15847), (211, 15850), (217, 15871), (218, 15874), (243, 15925), (247, 15931), (275, 15976), (358, 16120), (368, 16150), (383, 16183), (416, 16285), (427, 16321), (443, 16345), (463, 16393), (497, 16489), (526, 16564), (541, 16597), (547, 16630), (549, 16636),

Gene: MichaelScott_19 Start: 16864, Stop: 17706, Start Num: 106

Candidate Starts for MichaelScott_19:

(Start: 106 @16864 has 19 MA's), (Start: 115 @16873 has 37 MA's), (143, 16915), (163, 16948), (171, 16963), (201, 17011), (217, 17059), (223, 17074), (225, 17080), (262, 17119), (291, 17173), (311, 17212), (314, 17218), (338, 17254), (355, 17284), (361, 17293), (429, 17449), (512, 17626),

Gene: Milani_21 Start: 14466, Stop: 15329, Start Num: 67

Candidate Starts for Milani_21:

(Start: 67 @14466 has 11 MA's), (124, 14547), (133, 14562), (178, 14643), (182, 14649), (232, 14739), (274, 14784), (304, 14853), (310, 14862), (328, 14892), (340, 14910), (393, 15003), (404, 15027), (434, 15093), (514, 15255), (529, 15288), (540, 15315), (542, 15318),

Gene: Milly_18 Start: 13889, Stop: 15016, Start Num: 28

Candidate Starts for Milly_18:

(Start: 28 @13889 has 36 MA's), (32, 13898), (Start: 68 @14000 has 6 MA's), (130, 14090), (154, 14132), (155, 14135), (168, 14159), (217, 14258), (253, 14321), (275, 14360), (302, 14414), (345, 14480), (351, 14492), (372, 14543), (383, 14567), (411, 14645), (425, 14663), (443, 14693), (446, 14702), (461, 14735), (462, 14738), (503, 14852), (535, 14930), (541, 14945), (549, 14984), (550, 15002),

Gene: Milomuff_18 Start: 13530, Stop: 14384, Start Num: 66

Candidate Starts for Milomuff_18:

(Start: 66 @13530 has 131 MA's), (114, 13605), (133, 13635), (138, 13644), (204, 13743), (209, 13758), (245, 13815), (301, 13911), (304, 13920), (328, 13953), (388, 14037), (399, 14058), (456, 14175), (458, 14184), (508, 14301), (516, 14316), (544, 14376),

Gene: MintFen_18 Start: 15793, Stop: 16653, Start Num: 72

Candidate Starts for MintFen_18:

(Start: 68 @15787 has 6 MA's), (Start: 72 @15793 has 26 MA's), (174, 15949), (215, 16030), (286, 16129), (352, 16237), (397, 16321), (427, 16393), (492, 16522), (503, 16549), (509, 16564),

Gene: Miryou_20 Start: 16308, Stop: 17438, Start Num: 28

Candidate Starts for Miryou_20:

(Start: 28 @16308 has 36 MA's), (154, 16551), (168, 16578), (217, 16677), (275, 16779), (302, 16833), (323, 16863), (345, 16899), (346, 16902), (351, 16911), (383, 16986), (385, 16989), (399, 17025), (411, 17067), (425, 17085), (427, 17091), (443, 17115), (444, 17118), (446, 17124), (461, 17157), (541, 17367), (549, 17406), (550, 17424),

Gene: Miskis_45 Start: 28475, Stop: 29356, Start Num: 74

Candidate Starts for Miskis_45:

(Start: 70 @28469 has 24 MA's), (Start: 74 @28475 has 13 MA's), (Start: 110 @28523 has 2 MA's), (130, 28550), (170, 28622), (208, 28688), (217, 28718), (293, 28826), (351, 28919), (362, 28943), (367, 28958), (411, 29054), (443, 29102), (514, 29282), (530, 29318),

Gene: MissDaisy_23 Start: 17255, Stop: 18388, Start Num: 25

Candidate Starts for MissDaisy_23:

(Start: 25 @17255 has 250 MA's), (32, 17273), (49, 17345), (Start: 68 @17375 has 6 MA's), (130, 17465), (134, 17474), (154, 17507), (166, 17531), (218, 17636), (302, 17789), (348, 17858), (351, 17864), (411, 18017), (425, 18035), (443, 18065), (461, 18107), (462, 18110), (535, 18302), (541, 18317), (549, 18356), (550, 18374),

Gene: MissRona_20 Start: 16105, Stop: 16965, Start Num: 70

Candidate Starts for MissRona_20:

(Start: 70 @16105 has 24 MA's), (Start: 85 @16120 has 1 MA's), (153, 16222), (174, 16261), (215, 16342), (279, 16426), (286, 16441), (352, 16549), (397, 16633), (425, 16699), (427, 16705), (454, 16744), (492, 16834), (509, 16876),

Gene: Mitti_23 Start: 17413, Stop: 18546, Start Num: 25

Candidate Starts for Mitti_23:

(Start: 25 @17413 has 250 MA's), (32, 17431), (49, 17503), (Start: 68 @17533 has 6 MA's), (130, 17623), (154, 17665), (166, 17689), (218, 17794), (302, 17947), (348, 18016), (351, 18022), (411,

18175), (425, 18193), (443, 18223), (461, 18265), (462, 18268), (535, 18460), (541, 18475), (549, 18514), (550, 18532),

Gene: Mocha12_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for Mocha12_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: Mollymur_30 Start: 27246, Stop: 28130, Start Num: 70

Candidate Starts for Mollymur_30:

(37, 27171), (Start: 70 @27246 has 24 MA's), (Start: 85 @27267 has 1 MA's), (143, 27345), (170, 27393), (174, 27402), (217, 27489), (302, 27618), (351, 27690), (354, 27696), (411, 27825), (475, 27948), (483, 27969), (492, 27996),

Gene: Moosehead_16 Start: 13815, Stop: 14663, Start Num: 107

Candidate Starts for Moosehead_16:

(Start: 107 @13815 has 33 MA's), (114, 13821), (212, 13992), (217, 14010), (237, 14043), (308, 14163), (311, 14166), (316, 14175), (318, 14178), (324, 14187), (360, 14250), (399, 14322), (463, 14472), (534, 14634),

Gene: MortySmith_28 Start: 16923, Stop: 17813, Start Num: 60

Candidate Starts for MortySmith_28:

(Start: 60 @16923 has 92 MA's), (215, 17178), (254, 17247), (270, 17271), (284, 17304), (399, 17493), (408, 17526), (436, 17583), (464, 17634), (507, 17724), (521, 17754), (544, 17805), (545, 17808),

Gene: Mowgli_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Mowgli_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Moyashi_15 Start: 11324, Stop: 12265, Start Num: 66

Candidate Starts for Moyashi_15:

(Start: 57 @11309 has 1 MA's), (Start: 61 @11315 has 4 MA's), (Start: 63 @11318 has 55 MA's), (Start: 66 @11324 has 131 MA's), (Start: 83 @11357 has 6 MA's), (Start: 86 @11363 has 9 MA's), (93, 11375), (Start: 118 @11402 has 1 MA's), (124, 11411), (138, 11438), (140, 11441), (142, 11444), (143, 11447), (152, 11459), (157, 11468), (181, 11513), (200, 11543), (207, 11558), (209, 11564), (211, 11570), (212, 11573), (213, 11576), (220, 11600), (230, 11624), (238, 11642), (261, 11678), (265, 11684), (277, 11711), (290, 11735), (302, 11762), (319, 11789), (323, 11795), (358, 11858), (362, 11870), (383, 11912), (385, 11915), (391, 11930), (404, 11969), (408, 11984), (423, 12005), (426, 12020), (433, 12035), (436, 12041), (472, 12113), (473, 12116), (494, 12134), (496, 12137), (499, 12146), (515, 12194), (521, 12206), (524, 12215), (531, 12230), (534, 12236), (540, 12251),

Gene: MrAK_15 Start: 11335, Stop: 12276, Start Num: 66

Candidate Starts for MrAK_15:

(55, 11317), (Start: 66 @11335 has 131 MA's), (Start: 83 @11368 has 6 MA's), (Start: 86 @11374 has 9 MA's), (93, 11386), (Start: 118 @11413 has 1 MA's), (124, 11422), (140, 11452), (142, 11455), (143, 11458), (152, 11470), (157, 11479), (165, 11494), (177, 11518), (181, 11524), (200, 11554), (207, 11569), (211, 11581), (213, 11587), (230, 11635), (238, 11653), (261, 11689), (265, 11695), (277, 11722), (278, 11725), (290, 11746), (302, 11773), (317, 11797), (323, 11806), (358, 11869), (383,

11923), (385, 11926), (404, 11980), (408, 11995), (423, 12016), (426, 12031), (433, 12046), (436, 12052), (472, 12124), (473, 12127), (494, 12145), (496, 12148), (499, 12157), (515, 12205), (521, 12217), (524, 12226), (531, 12241), (534, 12247), (540, 12262),

Gene: MrSmee_17 Start: 12921, Stop: 13763, Start Num: 100

Candidate Starts for MrSmee_17:

(Start: 58 @12852 has 10 MA's), (Start: 100 @12921 has 5 MA's), (122, 12948), (152, 12999), (157, 13008), (161, 13014), (172, 13035), (200, 13083), (207, 13098), (265, 13206), (278, 13236), (285, 13251), (299, 13278), (302, 13287), (319, 13314), (371, 13407), (393, 13437), (399, 13452), (408, 13485), (429, 13527), (441, 13554), (467, 13602), (513, 13686), (515, 13692), (518, 13698), (521, 13704),

Gene: MsUbiquitous_17 Start: 13158, Stop: 14012, Start Num: 66

Candidate Starts for MsUbiquitous_17:

(Start: 66 @13158 has 131 MA's), (114, 13233), (133, 13263), (138, 13272), (204, 13371), (209, 13386), (245, 13443), (301, 13539), (304, 13548), (328, 13581), (388, 13665), (393, 13680), (399, 13686), (509, 13932), (516, 13944), (544, 14004),

Gene: Muddy_20 Start: 15099, Stop: 16211, Start Num: 27

Candidate Starts for Muddy_20:

(Start: 27 @15099 has 5 MA's), (35, 15147), (Start: 106 @15255 has 19 MA's), (113, 15264), (155, 15333), (170, 15360), (243, 15507), (304, 15615), (351, 15690), (356, 15699), (369, 15735), (399, 15804), (411, 15846), (443, 15891), (446, 15900), (470, 15957), (508, 16062), (547, 16173),

Gene: Mufasa_18 Start: 13909, Stop: 15036, Start Num: 28

Candidate Starts for Mufasa_18:

(Start: 28 @13909 has 36 MA's), (32, 13918), (Start: 68 @14020 has 6 MA's), (130, 14110), (154, 14152), (168, 14179), (215, 14272), (217, 14278), (253, 14341), (275, 14380), (302, 14434), (351, 14512), (372, 14563), (383, 14587), (411, 14665), (425, 14683), (443, 14713), (461, 14755), (462, 14758), (503, 14872), (535, 14950), (541, 14965), (549, 15004), (550, 15022),

Gene: Murp_18 Start: 15861, Stop: 16721, Start Num: 72

Candidate Starts for Murp_18:

(Start: 72 @15861 has 26 MA's), (174, 16017), (215, 16098), (286, 16197), (352, 16305), (397, 16389), (425, 16455), (427, 16461), (492, 16590), (509, 16632),

Gene: Murucutumbu_22 Start: 15969, Stop: 17105, Start Num: 25

Candidate Starts for Murucutumbu_22:

(Start: 25 @15969 has 250 MA's), (Start: 68 @16086 has 6 MA's), (141, 16197), (154, 16218), (168, 16245), (218, 16347), (302, 16500), (352, 16581), (392, 16671), (443, 16782), (461, 16824), (493, 16917), (503, 16941), (541, 17034), (549, 17073), (550, 17091),

Gene: Mynx_22 Start: 16034, Stop: 17170, Start Num: 25

Candidate Starts for Mynx_22:

(Start: 25 @16034 has 250 MA's), (Start: 68 @16151 has 6 MA's), (130, 16241), (141, 16262), (154, 16283), (168, 16310), (302, 16565), (352, 16646), (385, 16721), (392, 16736), (443, 16847), (461, 16889), (493, 16982), (503, 17006), (541, 17099), (549, 17138), (550, 17156),

Gene: NCRodriguez_24 Start: 13894, Stop: 14754, Start Num: 69

Candidate Starts for NCRodriguez_24:

(Start: 69 @13894 has 33 MA's), (89, 13930), (Start: 92 @13933 has 1 MA's), (Start: 112 @13954 has 1 MA's), (Start: 115 @13960 has 37 MA's), (124, 13972), (133, 13987), (171, 14053), (185, 14080), (209, 14110), (219, 14143), (286, 14236), (300, 14263), (376, 14386), (378, 14392), (393, 14425),

(427, 14503), (540, 14740), (542, 14743),

Gene: Nabi_19 Start: 14967, Stop: 15824, Start Num: 60

Candidate Starts for Nabi_19:

(Start: 60 @14967 has 92 MA's), (Start: 112 @15039 has 1 MA's), (142, 15087), (162, 15120), (218, 15225), (245, 15252), (284, 15315), (304, 15357), (374, 15456), (376, 15459), (378, 15465), (408, 15537), (436, 15594), (466, 15651), (471, 15660), (542, 15813), (544, 15816),

Gene: NadineRae_40 Start: 26218, Stop: 27138, Start Num: 86

Candidate Starts for NadineRae_40:

(Start: 86 @26218 has 9 MA's), (137, 26299), (163, 26344), (205, 26413), (282, 26539), (302, 26581), (356, 26665), (376, 26716), (397, 26749), (469, 26947), (476, 26965), (493, 27007), (531, 27103), (540, 27124),

Gene: Nanodon_21 Start: 15175, Stop: 16032, Start Num: 60

Candidate Starts for Nanodon_21:

(Start: 60 @15175 has 92 MA's), (Start: 112 @15247 has 1 MA's), (124, 15265), (162, 15328), (218, 15433), (245, 15460), (289, 15532), (331, 15607), (376, 15667), (378, 15673), (381, 15679), (405, 15733), (408, 15745), (436, 15802), (463, 15847), (466, 15859), (471, 15868), (521, 15973), (542, 16021), (544, 16024),

Gene: NarutoRun_30 Start: 17786, Stop: 18676, Start Num: 60

Candidate Starts for NarutoRun_30:

(Start: 60 @17786 has 92 MA's), (254, 18110), (270, 18134), (284, 18167), (381, 18323), (464, 18497), (521, 18617), (544, 18668), (545, 18671),

Gene: NatB6_40 Start: 28930, Stop: 29871, Start Num: 81

Candidate Starts for NatB6_40:

(Start: 81 @28930 has 28 MA's), (137, 29017), (178, 29092), (214, 29158), (247, 29200), (282, 29257), (397, 29470), (405, 29497), (443, 29608), (493, 29740), (531, 29836),

Gene: Nebkiss_14 Start: 13326, Stop: 14438, Start Num: 42

Candidate Starts for Nebkiss_14:

(Start: 42 @13326 has 2 MA's), (43, 13329), (101, 13422), (Start: 107 @13428 has 33 MA's), (134, 13473), (152, 13503), (166, 13530), (168, 13533), (171, 13539), (178, 13554), (180, 13557), (215, 13626), (217, 13632), (253, 13710), (286, 13767), (302, 13803), (345, 13869), (351, 13881), (394, 13983), (395, 13986), (403, 14013), (420, 14076), (461, 14157), (463, 14163), (483, 14220), (493, 14250), (499, 14265), (508, 14289), (510, 14295), (535, 14352), (550, 14424),

Gene: Neighly_20 Start: 16168, Stop: 17298, Start Num: 28

Candidate Starts for Neighly_20:

(Start: 28 @16168 has 36 MA's), (113, 16342), (152, 16408), (168, 16438), (217, 16537), (275, 16639), (302, 16693), (323, 16723), (345, 16759), (346, 16762), (351, 16771), (383, 16846), (385, 16849), (399, 16885), (411, 16927), (425, 16945), (427, 16951), (443, 16975), (444, 16978), (461, 17017), (497, 17119), (541, 17227), (549, 17266), (550, 17284),

Gene: Neobush_18 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Neobush_18:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500, 17663), (512, 17696),

Gene: Neoh_17 Start: 15469, Stop: 16641, Start Num: 25

Candidate Starts for Neoh_17:

(7, 15136), (Start: 25 @15469 has 250 MA's), (Start: 68 @15589 has 6 MA's), (Start: 79 @15607 has 5 MA's), (113, 15652), (116, 15658), (152, 15721), (171, 15757), (210, 15826), (211, 15829), (217, 15850), (247, 15904), (275, 15949), (292, 15979), (351, 16081), (358, 16093), (362, 16105), (368, 16123), (425, 16288), (443, 16318), (451, 16336), (461, 16360), (505, 16480), (541, 16570), (547, 16603),

Gene: Neptune_30 Start: 17763, Stop: 18653, Start Num: 60

Candidate Starts for Neptune_30:

(Start: 60 @17763 has 92 MA's), (254, 18087), (270, 18111), (284, 18144), (381, 18300), (464, 18474), (521, 18594), (544, 18645), (545, 18648),

Gene: Nerdos_19 Start: 14993, Stop: 15850, Start Num: 60

Candidate Starts for Nerdos_19:

(Start: 60 @14993 has 92 MA's), (Start: 112 @15065 has 1 MA's), (124, 15083), (142, 15113), (162, 15146), (218, 15251), (245, 15278), (302, 15380), (331, 15425), (378, 15491), (381, 15497), (405, 15551), (408, 15563), (463, 15665), (466, 15677), (471, 15686), (542, 15839), (544, 15842),

Gene: Nergal_21 Start: 15940, Stop: 17028, Start Num: 40

Candidate Starts for Nergal_21:

(Start: 40 @15940 has 1 MA's), (44, 15961), (134, 16105), (152, 16135), (162, 16153), (168, 16165), (192, 16210), (218, 16267), (253, 16312), (345, 16471), (351, 16483), (359, 16498), (368, 16525), (391, 16573), (404, 16615), (417, 16645), (427, 16678), (435, 16690), (461, 16747), (473, 16783), (487, 16825), (503, 16864), (519, 16912), (526, 16927), (535, 16945), (547, 16993), (548, 16996),

Gene: Neroxid_17 Start: 12061, Stop: 13044, Start Num: 51

Candidate Starts for Neroxid_17:

(Start: 51 @12061 has 3 MA's), (75, 12091), (95, 12127), (Start: 100 @12133 has 5 MA's), (120, 12154), (144, 12196), (157, 12214), (172, 12241), (195, 12283), (207, 12304), (219, 12343), (230, 12352), (241, 12382), (259, 12403), (265, 12412), (278, 12442), (285, 12457), (302, 12493), (325, 12529), (343, 12562), (345, 12565), (375, 12628), (393, 12652), (399, 12667), (438, 12763), (454, 12796), (467, 12832), (473, 12847), (478, 12856), (483, 12880), (485, 12889), (521, 12985),

Gene: Nettuno_16 Start: 13849, Stop: 14697, Start Num: 107

Candidate Starts for Nettuno_16:

(54, 13762), (Start: 107 @13849 has 33 MA's), (114, 13855), (166, 13939), (196, 13990), (217, 14044), (223, 14059), (237, 14077), (266, 14110), (298, 14176), (308, 14197), (311, 14200), (324, 14221), (355, 14278), (459, 14500), (463, 14506), (531, 14662), (534, 14668),

Gene: Nibb_21 Start: 15295, Stop: 16431, Start Num: 25

Candidate Starts for Nibb_21:

(Start: 25 @15295 has 250 MA's), (Start: 68 @15412 has 6 MA's), (Start: 79 @15430 has 5 MA's), (130, 15502), (141, 15523), (168, 15571), (275, 15772), (332, 15871), (345, 15892), (383, 15979), (411, 16060), (461, 16150), (462, 16153), (493, 16243), (541, 16360), (546, 16387), (549, 16399), (550, 16417),

Gene: Nicky22_18 Start: 13563, Stop: 14417, Start Num: 66

Candidate Starts for Nicky22_18:

(Start: 66 @13563 has 131 MA's), (114, 13638), (133, 13668), (138, 13677), (204, 13776), (209, 13791), (245, 13848), (301, 13944), (304, 13953), (328, 13986), (388, 14070), (393, 14085), (509, 14337), (516, 14349), (544, 14409),

Gene: Nikao_18 Start: 15554, Stop: 16696, Start Num: 25

Candidate Starts for Nikao_18:

(Start: 25 @15554 has 250 MA's), (Start: 68 @15677 has 6 MA's), (130, 15767), (168, 15836), (217, 15935), (218, 15938), (275, 16037), (352, 16172), (443, 16373), (461, 16415), (462, 16418), (493, 16508), (503, 16532), (541, 16625), (549, 16664), (550, 16682),

Gene: Niklas_22 Start: 15378, Stop: 16517, Start Num: 25

Candidate Starts for Niklas_22:

(Start: 25 @15378 has 250 MA's), (Start: 68 @15498 has 6 MA's), (130, 15588), (168, 15657), (217, 15756), (218, 15759), (275, 15858), (302, 15912), (352, 15993), (385, 16068), (392, 16083), (427, 16170), (443, 16194), (461, 16236), (462, 16239), (481, 16290), (493, 16329), (526, 16413), (535, 16431), (541, 16446), (549, 16485), (550, 16503),

Gene: Nishikigoi_19 Start: 15480, Stop: 16337, Start Num: 63

Candidate Starts for Nishikigoi_19:

(23, 15354), (Start: 24 @15357 has 1 MA's), (Start: 26 @15363 has 2 MA's), (Start: 63 @15480 has 55 MA's), (73, 15498), (124, 15570), (218, 15738), (274, 15801), (331, 15912), (378, 15978), (405, 16038), (408, 16050), (411, 16059), (436, 16107), (471, 16173), (489, 16209), (518, 16272), (542, 16326), (544, 16329),

Gene: NoShow_17 Start: 14354, Stop: 15487, Start Num: 27

Candidate Starts for NoShow_17:

(Start: 27 @14354 has 5 MA's), (35, 14402), (91, 14507), (Start: 110 @14531 has 2 MA's), (166, 14624), (228, 14753), (304, 14888), (345, 14954), (351, 14966), (356, 14975), (383, 15041), (404, 15101), (405, 15104), (411, 15125), (426, 15146), (443, 15170), (446, 15179), (461, 15212), (469, 15233), (519, 15371), (543, 15422), (547, 15452), (549, 15458),

Gene: Norvs_48 Start: 28708, Stop: 29595, Start Num: 70

Candidate Starts for Norvs_48:

(Start: 70 @28708 has 24 MA's), (Start: 74 @28714 has 13 MA's), (Start: 110 @28762 has 2 MA's), (130, 28789), (170, 28861), (208, 28927), (217, 28957), (293, 29065), (351, 29158), (362, 29182), (367, 29197), (411, 29293), (443, 29341), (514, 29521), (530, 29557),

Gene: NosilaM_43 Start: 29537, Stop: 30454, Start Num: 83

Candidate Starts for NosilaM_43:

(Start: 83 @29537 has 6 MA's), (137, 29618), (158, 29654), (247, 29801), (376, 30035), (395, 30062), (443, 30206), (454, 30224), (493, 30323), (531, 30419), (534, 30425), (540, 30440),

Gene: November_20 Start: 16335, Stop: 17471, Start Num: 25

Candidate Starts for November_20:

(Start: 25 @16335 has 250 MA's), (Start: 68 @16452 has 6 MA's), (Start: 79 @16470 has 5 MA's), (102, 16503), (130, 16542), (168, 16611), (219, 16716), (275, 16812), (302, 16866), (345, 16932), (351, 16944), (411, 17100), (427, 17124), (461, 17190), (462, 17193), (463, 17196), (493, 17283), (541, 17400), (550, 17457),

Gene: NovumRegina_40 Start: 29260, Stop: 30201, Start Num: 81

Candidate Starts for NovumRegina_40:

(Start: 81 @29260 has 28 MA's), (137, 29347), (178, 29422), (214, 29488), (247, 29530), (282, 29587), (397, 29800), (405, 29827), (443, 29938), (493, 30070), (531, 30166),

Gene: Nutello_18 Start: 15554, Stop: 16696, Start Num: 25

Candidate Starts for Nutello_18:

(Start: 25 @15554 has 250 MA's), (Start: 68 @15677 has 6 MA's), (130, 15767), (168, 15836), (217, 15935), (218, 15938), (275, 16037), (352, 16172), (443, 16373), (461, 16415), (462, 16418), (493,

16508), (503, 16532), (541, 16625), (549, 16664), (550, 16682),

Gene: Nymphadora_18 Start: 16940, Stop: 17767, Start Num: 115

Candidate Starts for Nymphadora_18:

(Start: 115 @16940 has 37 MA's), (163, 17015), (221, 17135), (223, 17141), (275, 17207), (279, 17219), (308, 17276), (314, 17285), (338, 17321), (342, 17330), (355, 17351), (399, 17435), (429, 17510), (442, 17531), (500, 17654), (512, 17687),

Gene: Obliviate_17 Start: 15583, Stop: 16443, Start Num: 72

Candidate Starts for Obliviate_17:

(Start: 68 @15577 has 6 MA's), (Start: 72 @15583 has 26 MA's), (174, 15739), (215, 15820), (286, 15919), (352, 16027), (397, 16111), (425, 16177), (454, 16222), (492, 16312), (509, 16354),

Gene: OctaviousRex_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for OctaviousRex_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: OhDear_30 Start: 17792, Stop: 18682, Start Num: 60

Candidate Starts for OhDear_30:

(Start: 60 @17792 has 92 MA's), (254, 18116), (270, 18140), (284, 18173), (381, 18329), (464, 18503), (521, 18623), (544, 18674), (545, 18677),

Gene: Ohgeesy_18 Start: 16563, Stop: 17390, Start Num: 115

Candidate Starts for Ohgeesy_18:

(Start: 115 @16563 has 37 MA's), (163, 16638), (221, 16758), (223, 16764), (275, 16830), (279, 16842), (308, 16899), (314, 16908), (338, 16944), (342, 16953), (355, 16974), (399, 17058), (429, 17133), (442, 17154), (500, 17277), (512, 17310),

Gene: OkiRoe_20 Start: 16324, Stop: 17454, Start Num: 28

Candidate Starts for OkiRoe_20:

(Start: 28 @16324 has 36 MA's), (152, 16564), (154, 16567), (168, 16594), (217, 16693), (275, 16795), (302, 16849), (323, 16879), (345, 16915), (346, 16918), (351, 16927), (383, 17002), (385, 17005), (399, 17041), (411, 17083), (425, 17101), (427, 17107), (443, 17131), (444, 17134), (446, 17140), (461, 17173), (541, 17383), (549, 17422), (550, 17440),

Gene: Olga_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Olga_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Oliynyk_20 Start: 15156, Stop: 16013, Start Num: 60

Candidate Starts for Oliynyk_20:

(Start: 60 @15156 has 92 MA's), (Start: 112 @15228 has 1 MA's), (124, 15246), (162, 15309), (218, 15414), (245, 15441), (274, 15477), (302, 15543), (331, 15588), (378, 15654), (381, 15660), (408, 15726), (427, 15765), (436, 15783), (466, 15840), (480, 15867), (542, 16002), (544, 16005),

Gene: Olliecat_16 Start: 13002, Stop: 13859, Start Num: 66

Candidate Starts for Olliecat_16:

(Start: 66 @13002 has 131 MA's), (133, 13104), (180, 13188), (185, 13197), (187, 13203), (209, 13227), (216, 13251), (219, 13260), (242, 13278), (301, 13380), (333, 13428), (340, 13440), (342, 13443), (349, 13452), (361, 13473), (393, 13524), (411, 13572), (508, 13776), (514, 13785),

Gene: Olympi_22 Start: 15475, Stop: 16368, Start Num: 69

Candidate Starts for Olympi_22:

(Start: 69 @15475 has 33 MA's), (133, 15568), (182, 15655), (274, 15820), (275, 15823), (340, 15946), (426, 16114), (463, 16183), (471, 16204), (472, 16207), (514, 16294), (515, 16297), (516, 16300), (531, 16333),

Gene: Omar_20 Start: 15815, Stop: 16672, Start Num: 63

Candidate Starts for Omar_20:

(Start: 51 @15797 has 3 MA's), (Start: 63 @15815 has 55 MA's), (124, 15905), (138, 15929), (147, 15944), (171, 15986), (211, 16049), (218, 16073), (274, 16136), (331, 16247), (337, 16256), (378, 16313), (408, 16385), (436, 16442), (471, 16508), (489, 16544), (518, 16607), (542, 16661), (544, 16664),

Gene: OmniCritical_23 Start: 17398, Stop: 18531, Start Num: 25

Candidate Starts for OmniCritical_23:

(Start: 25 @17398 has 250 MA's), (32, 17416), (49, 17488), (Start: 68 @17518 has 6 MA's), (130, 17608), (154, 17650), (166, 17674), (218, 17779), (302, 17932), (348, 18001), (351, 18007), (411, 18160), (425, 18178), (443, 18208), (461, 18250), (462, 18253), (535, 18445), (541, 18460), (549, 18499), (550, 18517),

Gene: Omnicron_20 Start: 15090, Stop: 16220, Start Num: 28

Candidate Starts for Omnicron_20:

(Start: 28 @15090 has 36 MA's), (Start: 79 @15219 has 5 MA's), (113, 15264), (152, 15330), (154, 15333), (168, 15360), (189, 15402), (217, 15459), (275, 15561), (302, 15615), (323, 15645), (345, 15681), (351, 15693), (372, 15744), (383, 15768), (397, 15801), (411, 15849), (427, 15873), (443, 15897), (444, 15900), (461, 15939), (541, 16149), (549, 16188), (550, 16206),

Gene: OneDirection_16 Start: 13816, Stop: 14664, Start Num: 107

Candidate Starts for OneDirection_16:

(54, 13729), (Start: 107 @13816 has 33 MA's), (114, 13822), (166, 13906), (196, 13957), (217, 14011), (237, 14044), (266, 14077), (298, 14143), (308, 14164), (311, 14167), (324, 14188), (355, 14245), (459, 14467), (463, 14473), (531, 14629), (534, 14635),

Gene: OneUp_41 Start: 26148, Stop: 27029, Start Num: 72

Candidate Starts for OneUp_41:

(14, 25920), (15, 25944), (16, 25953), (Start: 72 @26148 has 26 MA's), (Start: 110 @26196 has 2 MA's), (170, 26295), (176, 26310), (249, 26427), (315, 26538), (351, 26592), (362, 26616), (367, 26631), (410, 26724), (411, 26727), (424, 26742), (443, 26775), (509, 26940), (529, 26988), (530, 26991),

Gene: Oregano_19 Start: 16535, Stop: 17371, Start Num: 106

Candidate Starts for Oregano_19:

(Start: 106 @16535 has 19 MA's), (Start: 115 @16544 has 37 MA's), (143, 16586), (163, 16619), (171, 16634), (201, 16682), (223, 16745), (225, 16751), (262, 16790), (291, 16844), (311, 16883), (314, 16889), (338, 16925), (355, 16955), (361, 16964), (429, 17114), (472, 17204), (512, 17291),

Gene: Oscar_21 Start: 15261, Stop: 16397, Start Num: 25

Candidate Starts for Oscar_21:

(Start: 25 @15261 has 250 MA's), (Start: 68 @15378 has 6 MA's), (Start: 79 @15396 has 5 MA's), (113, 15441), (141, 15489), (168, 15537), (275, 15738), (302, 15792), (332, 15837), (345, 15858), (368, 15912), (383, 15945), (392, 15963), (411, 16026), (461, 16116), (462, 16119), (481, 16170), (493, 16209), (541, 16326), (549, 16365), (550, 16383),

Gene: Ouroboros_15 Start: 11284, Stop: 12231, Start Num: 66

Candidate Starts for Ouroboros_15:

(53, 11266), (Start: 66 @11284 has 131 MA's), (93, 11335), (95, 11338), (Start: 100 @11344 has 5 MA's), (Start: 118 @11368 has 1 MA's), (124, 11377), (140, 11407), (142, 11410), (143, 11413), (152, 11425), (157, 11434), (181, 11479), (200, 11509), (207, 11524), (211, 11536), (213, 11542), (230, 11590), (238, 11608), (257, 11635), (261, 11644), (265, 11650), (277, 11677), (317, 11752), (323, 11761), (362, 11836), (383, 11878), (385, 11881), (387, 11884), (404, 11935), (408, 11950), (423, 11971), (426, 11986), (433, 12001), (436, 12007), (472, 12079), (473, 12082), (494, 12100), (496, 12103), (499, 12112), (515, 12160), (521, 12172), (524, 12181), (531, 12196), (534, 12202), (540, 12217),

Gene: Outis_41 Start: 29510, Stop: 30433, Start Num: 81

Candidate Starts for Outis_41:

(Start: 81 @29510 has 28 MA's), (137, 29597), (158, 29633), (178, 29672), (395, 30041), (443, 30185), (493, 30302), (531, 30398), (534, 30404), (540, 30419),

Gene: OverHedge_30 Start: 17753, Stop: 18643, Start Num: 60

Candidate Starts for OverHedge_30:

(Start: 60 @17753 has 92 MA's), (254, 18077), (270, 18101), (284, 18134), (381, 18290), (464, 18464), (521, 18584), (544, 18635), (545, 18638),

Gene: Ozzie_19 Start: 14973, Stop: 15830, Start Num: 60

Candidate Starts for Ozzie_19:

(Start: 60 @14973 has 92 MA's), (Start: 112 @15045 has 1 MA's), (124, 15063), (142, 15093), (162, 15126), (218, 15231), (245, 15258), (302, 15360), (331, 15405), (378, 15471), (381, 15477), (405, 15531), (408, 15543), (463, 15645), (466, 15657), (471, 15666), (542, 15819), (544, 15822),

Gene: OzzyJ_20 Start: 14960, Stop: 15817, Start Num: 60

Candidate Starts for OzzyJ_20:

(Start: 60 @14960 has 92 MA's), (Start: 112 @15032 has 1 MA's), (124, 15050), (218, 15218), (245, 15245), (304, 15350), (378, 15458), (381, 15464), (405, 15518), (463, 15632), (471, 15653), (542, 15806), (544, 15809),

Gene: P1.1_15 Start: 11293, Stop: 12234, Start Num: 66

Candidate Starts for P1.1_15:

(Start: 57 @11278 has 1 MA's), (Start: 61 @11284 has 4 MA's), (Start: 63 @11287 has 55 MA's), (Start: 66 @11293 has 131 MA's), (Start: 83 @11326 has 6 MA's), (Start: 86 @11332 has 9 MA's), (93, 11344), (Start: 118 @11371 has 1 MA's), (124, 11380), (140, 11410), (142, 11413), (143, 11416), (152, 11428), (157, 11437), (181, 11482), (200, 11512), (207, 11527), (211, 11539), (212, 11542), (213, 11545), (220, 11569), (230, 11593), (238, 11611), (261, 11647), (265, 11653), (277, 11680), (278, 11683), (299, 11722), (302, 11731), (319, 11758), (323, 11764), (358, 11827), (362, 11839), (383, 11881), (385, 11884), (387, 11887), (404, 11938), (408, 11953), (423, 11974), (426, 11989), (433, 12004), (436, 12010), (472, 12082), (473, 12085), (494, 12103), (496, 12106), (499, 12115), (515, 12163), (521, 12175), (524, 12184), (531, 12199), (534, 12205), (540, 12220),

Gene: P100.1_15 Start: 11300, Stop: 12241, Start Num: 66

Candidate Starts for P100.1_15:

(Start: 61 @11291 has 4 MA's), (Start: 66 @11300 has 131 MA's), (Start: 83 @11333 has 6 MA's), (93, 11351), (Start: 118 @11378 has 1 MA's), (124, 11387), (138, 11414), (140, 11417), (142, 11420), (143, 11423), (152, 11435), (157, 11444), (165, 11459), (181, 11489), (200, 11519), (207, 11534), (213, 11552), (217, 11567), (220, 11576), (230, 11600), (238, 11618), (265, 11660), (277, 11687), (299, 11729), (302, 11738), (319, 11765), (323, 11771), (358, 11834), (362, 11846), (383, 11888), (385, 11891), (391, 11906), (404, 11945), (408, 11960), (423, 11981), (426, 11996), (433, 12011), (436, 12017), (472, 12089), (473, 12092), (494, 12110), (496, 12113), (499, 12122), (515, 12170), (521, 12182), (524, 12191), (531, 12206), (534, 12212), (540, 12227),

Gene: P100A_15 Start: 11295, Stop: 12242, Start Num: 66

Candidate Starts for P100A_15:

(Start: 61 @11286 has 4 MA's), (Start: 63 @11289 has 55 MA's), (Start: 66 @11295 has 131 MA's), (Start: 83 @11328 has 6 MA's), (93, 11346), (95, 11349), (Start: 100 @11355 has 5 MA's), (Start: 118 @11379 has 1 MA's), (124, 11388), (140, 11418), (142, 11421), (143, 11424), (152, 11436), (157, 11445), (181, 11490), (200, 11520), (207, 11535), (209, 11541), (213, 11553), (230, 11601), (238, 11619), (261, 11655), (265, 11661), (277, 11688), (299, 11730), (317, 11763), (323, 11772), (358, 11835), (362, 11847), (383, 11889), (385, 11892), (387, 11895), (399, 11928), (404, 11946), (408, 11961), (423, 11982), (426, 11997), (433, 12012), (436, 12018), (472, 12090), (473, 12093), (494, 12111), (496, 12114), (515, 12171), (521, 12183), (524, 12192), (531, 12207), (534, 12213), (540, 12228),

Gene: P100D_15 Start: 11296, Stop: 12237, Start Num: 66

Candidate Starts for P100D_15:

(Start: 57 @11281 has 1 MA's), (Start: 61 @11287 has 4 MA's), (Start: 63 @11290 has 55 MA's), (Start: 66 @11296 has 131 MA's), (Start: 83 @11329 has 6 MA's), (Start: 86 @11335 has 9 MA's), (93, 11347), (Start: 118 @11374 has 1 MA's), (124, 11383), (140, 11413), (142, 11416), (143, 11419), (152, 11431), (157, 11440), (165, 11455), (181, 11485), (200, 11515), (207, 11530), (211, 11542), (212, 11545), (213, 11548), (230, 11596), (238, 11614), (257, 11641), (261, 11650), (265, 11656), (277, 11683), (278, 11686), (299, 11725), (302, 11734), (317, 11758), (323, 11767), (358, 11830), (362, 11842), (383, 11884), (385, 11887), (387, 11890), (404, 11941), (408, 11956), (423, 11977), (426, 11992), (433, 12007), (436, 12013), (472, 12085), (473, 12088), (494, 12106), (496, 12109), (499, 12118), (515, 12166), (521, 12178), (524, 12187), (531, 12202), (534, 12208), (540, 12223),

Gene: P101A_15 Start: 11308, Stop: 12249, Start Num: 66

Candidate Starts for P101A_15:

(Start: 59 @11296 has 3 MA's), (Start: 61 @11299 has 4 MA's), (Start: 66 @11308 has 131 MA's), (Start: 83 @11341 has 6 MA's), (93, 11359), (Start: 118 @11386 has 1 MA's), (124, 11395), (138, 11422), (140, 11425), (142, 11428), (143, 11431), (152, 11443), (157, 11452), (165, 11467), (181, 11497), (200, 11527), (207, 11542), (213, 11560), (217, 11575), (220, 11584), (230, 11608), (238, 11626), (265, 11668), (277, 11695), (299, 11737), (302, 11746), (319, 11773), (323, 11779), (358, 11842), (362, 11854), (383, 11896), (385, 11899), (391, 11914), (404, 11953), (408, 11968), (423, 11989), (426, 12004), (433, 12019), (436, 12025), (472, 12097), (473, 12100), (494, 12118), (496, 12121), (499, 12130), (515, 12178), (521, 12190), (524, 12199), (531, 12214), (534, 12220), (540, 12235),

Gene: P104A_15 Start: 11279, Stop: 12226, Start Num: 66

Candidate Starts for P104A_15:

(Start: 56 @11264 has 4 MA's), (Start: 61 @11270 has 4 MA's), (Start: 66 @11279 has 131 MA's), (Start: 83 @11312 has 6 MA's), (93, 11330), (95, 11333), (Start: 100 @11339 has 5 MA's), (Start: 118 @11363 has 1 MA's), (124, 11372), (140, 11402), (142, 11405), (143, 11408), (152, 11420), (161, 11435), (165, 11444), (181, 11474), (200, 11504), (207, 11519), (209, 11525), (211, 11531), (212, 11534), (213, 11537), (220, 11561), (230, 11585), (238, 11603), (257, 11630), (261, 11639), (265, 11645), (277, 11672), (278, 11675), (290, 11696), (302, 11723), (319, 11750), (323, 11756), (358,

11819), (362, 11831), (383, 11873), (385, 11876), (387, 11879), (391, 11891), (404, 11930), (408, 11945), (423, 11966), (426, 11981), (433, 11996), (436, 12002), (472, 12074), (473, 12077), (494, 12095), (496, 12098), (499, 12107), (515, 12155), (521, 12167), (524, 12176), (531, 12191), (534, 12197), (540, 12212),

Gene: P104B_15 Start: 11296, Stop: 12243, Start Num: 66

Candidate Starts for P104B_15:

(Start: 56 @11281 has 4 MA's), (Start: 61 @11287 has 4 MA's), (Start: 63 @11290 has 55 MA's), (Start: 66 @11296 has 131 MA's), (Start: 83 @11329 has 6 MA's), (Start: 86 @11335 has 9 MA's), (93, 11347), (95, 11350), (Start: 100 @11356 has 5 MA's), (Start: 118 @11380 has 1 MA's), (124, 11389), (140, 11419), (142, 11422), (143, 11425), (152, 11437), (157, 11446), (161, 11452), (181, 11491), (200, 11521), (207, 11536), (211, 11548), (212, 11551), (213, 11554), (230, 11602), (238, 11620), (257, 11647), (261, 11656), (277, 11689), (290, 11713), (302, 11740), (317, 11764), (323, 11773), (358, 11836), (362, 11848), (383, 11890), (385, 11893), (387, 11896), (404, 11947), (408, 11962), (423, 11983), (426, 11998), (433, 12013), (436, 12019), (472, 12091), (473, 12094), (494, 12112), (496, 12115), (499, 12124), (515, 12172), (521, 12184), (524, 12193), (531, 12208), (534, 12214), (540, 12229),

Gene: P105_15 Start: 11205, Stop: 12146, Start Num: 66

Candidate Starts for P105_15:

(55, 11187), (Start: 66 @11205 has 131 MA's), (Start: 83 @11238 has 6 MA's), (Start: 86 @11244 has 9 MA's), (93, 11256), (Start: 118 @11283 has 1 MA's), (124, 11292), (140, 11322), (142, 11325), (143, 11328), (152, 11340), (157, 11349), (165, 11364), (181, 11394), (200, 11424), (207, 11439), (211, 11451), (212, 11454), (213, 11457), (220, 11481), (230, 11505), (238, 11523), (261, 11559), (265, 11565), (277, 11592), (278, 11595), (290, 11616), (299, 11634), (302, 11643), (319, 11670), (323, 11676), (358, 11739), (362, 11751), (383, 11793), (385, 11796), (387, 11799), (391, 11811), (404, 11850), (408, 11865), (423, 11886), (426, 11901), (433, 11916), (436, 11922), (472, 11994), (494, 12015), (496, 12018), (499, 12027), (515, 12075), (521, 12087), (524, 12096), (531, 12111), (534, 12117), (540, 12132),

Gene: P106A_15 Start: 11324, Stop: 12271, Start Num: 66

Candidate Starts for P106A_15:

(Start: 57 @11309 has 1 MA's), (Start: 61 @11315 has 4 MA's), (Start: 63 @11318 has 55 MA's), (Start: 66 @11324 has 131 MA's), (Start: 83 @11357 has 6 MA's), (93, 11375), (95, 11378), (Start: 118 @11408 has 1 MA's), (124, 11417), (138, 11444), (140, 11447), (142, 11450), (143, 11453), (152, 11465), (157, 11474), (181, 11519), (200, 11549), (207, 11564), (212, 11579), (213, 11582), (220, 11606), (230, 11630), (238, 11648), (265, 11690), (277, 11717), (299, 11759), (302, 11768), (319, 11795), (323, 11801), (358, 11864), (362, 11876), (383, 11918), (385, 11921), (387, 11924), (404, 11975), (408, 11990), (411, 11999), (426, 12026), (433, 12041), (436, 12047), (472, 12119), (473, 12122), (494, 12140), (496, 12143), (499, 12152), (515, 12200), (521, 12212), (524, 12221), (531, 12236), (534, 12242), (540, 12257),

Gene: P106C_15 Start: 11324, Stop: 12271, Start Num: 66

Candidate Starts for P106C_15:

(Start: 57 @11309 has 1 MA's), (Start: 61 @11315 has 4 MA's), (Start: 63 @11318 has 55 MA's), (Start: 66 @11324 has 131 MA's), (Start: 83 @11357 has 6 MA's), (93, 11375), (95, 11378), (Start: 118 @11408 has 1 MA's), (124, 11417), (138, 11444), (140, 11447), (142, 11450), (143, 11453), (152, 11465), (157, 11474), (181, 11519), (200, 11549), (207, 11564), (212, 11579), (213, 11582), (220, 11606), (230, 11630), (238, 11648), (265, 11690), (277, 11717), (299, 11759), (302, 11768), (319, 11795), (323, 11801), (358, 11864), (362, 11876), (383, 11918), (385, 11921), (387, 11924), (404, 11975), (408, 11990), (411, 11999), (426, 12026), (433, 12041), (436, 12047), (472, 12119), (473, 12122), (494, 12140), (496, 12143), (499, 12152), (515, 12200), (521, 12212), (524, 12221), (531, 12236), (534, 12242), (540, 12257),

Gene: P106I_15 Start: 11324, Stop: 12271, Start Num: 66

Candidate Starts for P106I_15:

(Start: 57 @11309 has 1 MA's), (Start: 61 @11315 has 4 MA's), (Start: 63 @11318 has 55 MA's), (Start: 66 @11324 has 131 MA's), (Start: 83 @11357 has 6 MA's), (93, 11375), (95, 11378), (Start: 118 @11408 has 1 MA's), (124, 11417), (138, 11444), (140, 11447), (142, 11450), (143, 11453), (152, 11465), (157, 11474), (181, 11519), (200, 11549), (207, 11564), (212, 11579), (213, 11582), (220, 11606), (230, 11630), (238, 11648), (265, 11690), (277, 11717), (299, 11759), (302, 11768), (319, 11795), (323, 11801), (358, 11864), (362, 11876), (383, 11918), (385, 11921), (387, 11924), (404, 11975), (408, 11990), (411, 11999), (426, 12026), (433, 12041), (436, 12047), (472, 12119), (473, 12122), (494, 12140), (496, 12143), (499, 12152), (515, 12200), (521, 12212), (524, 12221), (531, 12236), (534, 12242), (540, 12257),

Gene: P106L_15 Start: 11324, Stop: 12271, Start Num: 66

Candidate Starts for P106L_15:

(Start: 57 @11309 has 1 MA's), (Start: 61 @11315 has 4 MA's), (Start: 63 @11318 has 55 MA's), (Start: 66 @11324 has 131 MA's), (Start: 83 @11357 has 6 MA's), (93, 11375), (95, 11378), (Start: 118 @11408 has 1 MA's), (124, 11417), (138, 11444), (140, 11447), (142, 11450), (143, 11453), (152, 11465), (157, 11474), (181, 11519), (200, 11549), (207, 11564), (212, 11579), (213, 11582), (220, 11606), (230, 11630), (238, 11648), (265, 11690), (277, 11717), (299, 11759), (302, 11768), (319, 11795), (323, 11801), (358, 11864), (362, 11876), (383, 11918), (385, 11921), (387, 11924), (404, 11975), (408, 11990), (411, 11999), (426, 12026), (433, 12041), (436, 12047), (472, 12119), (473, 12122), (494, 12140), (496, 12143), (499, 12152), (515, 12200), (521, 12212), (524, 12221), (531, 12236), (534, 12242), (540, 12257),

Gene: P106M_15 Start: 11324, Stop: 12271, Start Num: 66

Candidate Starts for P106M_15:

(Start: 57 @11309 has 1 MA's), (Start: 61 @11315 has 4 MA's), (Start: 63 @11318 has 55 MA's), (Start: 66 @11324 has 131 MA's), (Start: 83 @11357 has 6 MA's), (93, 11375), (95, 11378), (Start: 118 @11408 has 1 MA's), (124, 11417), (138, 11444), (140, 11447), (142, 11450), (143, 11453), (152, 11465), (157, 11474), (181, 11519), (200, 11549), (207, 11564), (212, 11579), (213, 11582), (220, 11606), (230, 11630), (238, 11648), (265, 11690), (277, 11717), (299, 11759), (302, 11768), (319, 11795), (323, 11801), (358, 11864), (362, 11876), (383, 11918), (385, 11921), (387, 11924), (404, 11975), (408, 11990), (411, 11999), (426, 12026), (433, 12041), (436, 12047), (472, 12119), (473, 12122), (494, 12140), (496, 12143), (499, 12152), (515, 12200), (521, 12212), (524, 12221), (531, 12236), (534, 12242), (540, 12257),

Gene: P107A_15 Start: 11301, Stop: 12248, Start Num: 66

Candidate Starts for P107A_15:

(Start: 61 @11292 has 4 MA's), (Start: 66 @11301 has 131 MA's), (Start: 83 @11334 has 6 MA's), (93, 11352), (95, 11355), (Start: 100 @11361 has 5 MA's), (Start: 118 @11385 has 1 MA's), (124, 11394), (140, 11424), (142, 11427), (143, 11430), (152, 11442), (157, 11451), (200, 11526), (207, 11541), (209, 11547), (213, 11559), (230, 11607), (238, 11625), (257, 11652), (261, 11661), (265, 11667), (277, 11694), (317, 11769), (323, 11778), (358, 11841), (362, 11853), (383, 11895), (385, 11898), (387, 11901), (404, 11952), (408, 11967), (423, 11988), (426, 12003), (433, 12018), (436, 12024), (472, 12096), (473, 12099), (494, 12117), (496, 12120), (515, 12177), (521, 12189), (524, 12198), (531, 12213), (534, 12219), (540, 12234),

Gene: P107C_15 Start: 11283, Stop: 12224, Start Num: 66

Candidate Starts for P107C_15:

(Start: 57 @11268 has 1 MA's), (Start: 61 @11274 has 4 MA's), (Start: 63 @11277 has 55 MA's), (Start: 66 @11283 has 131 MA's), (Start: 83 @11316 has 6 MA's), (Start: 86 @11322 has 9 MA's), (93, 11334), (Start: 118 @11361 has 1 MA's), (124, 11370), (140, 11400), (142, 11403), (143, 11406), (152,

11418), (157, 11427), (165, 11442), (181, 11472), (200, 11502), (207, 11517), (212, 11532), (213, 11535), (230, 11583), (238, 11601), (261, 11637), (265, 11643), (277, 11670), (278, 11673), (290, 11694), (299, 11712), (302, 11721), (317, 11745), (323, 11754), (358, 11817), (362, 11829), (383, 11871), (385, 11874), (387, 11877), (408, 11943), (423, 11964), (426, 11979), (433, 11994), (436, 12000), (472, 12072), (473, 12075), (494, 12093), (496, 12096), (499, 12105), (515, 12153), (521, 12165), (524, 12174), (529, 12183), (531, 12189), (534, 12195), (540, 12210),

Gene: P108C_15 Start: 11282, Stop: 12232, Start Num: 61

Candidate Starts for P108C_15:

(Start: 57 @11276 has 1 MA's), (Start: 61 @11282 has 4 MA's), (Start: 63 @11285 has 55 MA's), (Start: 66 @11291 has 131 MA's), (Start: 83 @11324 has 6 MA's), (93, 11342), (Start: 118 @11369 has 1 MA's), (124, 11378), (140, 11408), (142, 11411), (143, 11414), (152, 11426), (157, 11435), (165, 11450), (181, 11480), (200, 11510), (207, 11525), (209, 11531), (213, 11543), (230, 11591), (238, 11609), (261, 11645), (265, 11651), (277, 11678), (299, 11720), (302, 11729), (319, 11756), (323, 11762), (358, 11825), (362, 11837), (383, 11879), (385, 11882), (387, 11885), (399, 11918), (404, 11936), (408, 11951), (411, 11960), (426, 11987), (433, 12002), (436, 12008), (472, 12080), (473, 12083), (494, 12101), (496, 12104), (499, 12113), (515, 12161), (521, 12173), (524, 12182), (531, 12197), (534, 12203), (540, 12218),

Gene: P1201_46 Start: 33556, Stop: 34458, Start Num: 66

Candidate Starts for P1201_46:

(Start: 66 @33556 has 131 MA's), (152, 33685), (205, 33775), (208, 33784), (214, 33802), (348, 34015), (366, 34057), (402, 34132), (407, 34150), (408, 34153), (413, 34174), (462, 34246), (473, 34279), (493, 34327),

Gene: P14.4_15 Start: 11291, Stop: 12238, Start Num: 66

Candidate Starts for P14.4_15:

(Start: 56 @11276 has 4 MA's), (Start: 61 @11282 has 4 MA's), (Start: 66 @11291 has 131 MA's), (Start: 83 @11324 has 6 MA's), (93, 11342), (95, 11345), (Start: 100 @11351 has 5 MA's), (Start: 118 @11375 has 1 MA's), (124, 11384), (140, 11414), (142, 11417), (143, 11420), (152, 11432), (157, 11441), (181, 11486), (200, 11516), (207, 11531), (209, 11537), (211, 11543), (212, 11546), (230, 11597), (238, 11615), (257, 11642), (261, 11651), (265, 11657), (277, 11684), (278, 11687), (290, 11708), (302, 11735), (317, 11759), (323, 11768), (358, 11831), (362, 11843), (383, 11885), (385, 11888), (387, 11891), (404, 11942), (408, 11957), (423, 11978), (426, 11993), (433, 12008), (436, 12014), (472, 12086), (473, 12089), (494, 12107), (496, 12110), (499, 12119), (515, 12167), (521, 12179), (531, 12203), (534, 12209), (540, 12224),

Gene: P3MA_17 Start: 13196, Stop: 14293, Start Num: 38

Candidate Starts for P3MA_17:

(Start: 38 @13196 has 1 MA's), (Start: 79 @13280 has 5 MA's), (116, 13331), (152, 13391), (154, 13394), (162, 13409), (189, 13463), (227, 13547), (279, 13640), (282, 13649), (351, 13769), (368, 13811), (385, 13847), (397, 13874), (411, 13922), (425, 13940), (435, 13958), (443, 13970), (444, 13973), (458, 14003), (461, 14006), (463, 14012), (484, 14072), (514, 14162), (523, 14183), (535, 14207), (541, 14222), (547, 14255), (549, 14261), (551, 14285),

Gene: P9.1_15 Start: 11286, Stop: 12233, Start Num: 66

Candidate Starts for P9.1_15:

(Start: 56 @11271 has 4 MA's), (Start: 61 @11277 has 4 MA's), (Start: 63 @11280 has 55 MA's), (Start: 66 @11286 has 131 MA's), (Start: 83 @11319 has 6 MA's), (Start: 86 @11325 has 9 MA's), (93, 11337), (95, 11340), (Start: 100 @11346 has 5 MA's), (Start: 118 @11370 has 1 MA's), (140, 11409), (142, 11412), (143, 11415), (152, 11427), (157, 11436), (181, 11481), (200, 11511), (207, 11526), (209, 11532), (211, 11538), (212, 11541), (213, 11544), (230, 11592), (238, 11610), (257, 11637), (261, 11646), (277, 11679), (278, 11682), (290, 11703), (302, 11730), (319, 11757), (323, 11763),

(358, 11826), (362, 11838), (383, 11880), (385, 11883), (387, 11886), (404, 11937), (408, 11952), (411, 11961), (426, 11988), (433, 12003), (436, 12009), (472, 12081), (473, 12084), (494, 12102), (496, 12105), (499, 12114), (515, 12162), (521, 12174), (524, 12183), (531, 12198), (534, 12204), (540, 12219),

Gene: PA6_15 Start: 11315, Stop: 12262, Start Num: 66

Candidate Starts for PA6_15:

(52, 11294), (Start: 61 @11306 has 4 MA's), (Start: 63 @11309 has 55 MA's), (Start: 66 @11315 has 131 MA's), (Start: 83 @11348 has 6 MA's), (Start: 86 @11354 has 9 MA's), (93, 11366), (Start: 100 @11375 has 5 MA's), (101, 11378), (Start: 118 @11399 has 1 MA's), (124, 11408), (140, 11438), (142, 11441), (143, 11444), (152, 11456), (161, 11471), (165, 11480), (181, 11510), (200, 11540), (207, 11555), (209, 11561), (211, 11567), (212, 11570), (213, 11573), (220, 11597), (230, 11621), (238, 11639), (257, 11666), (261, 11675), (265, 11681), (277, 11708), (278, 11711), (302, 11759), (319, 11786), (323, 11792), (358, 11855), (362, 11867), (383, 11909), (385, 11912), (391, 11927), (404, 11966), (408, 11981), (423, 12002), (426, 12017), (433, 12032), (436, 12038), (472, 12110), (473, 12113), (494, 12131), (496, 12134), (499, 12143), (515, 12191), (521, 12203), (524, 12212), (531, 12227), (534, 12233), (540, 12248),

Gene: PAD20_15 Start: 11289, Stop: 12230, Start Num: 66

Candidate Starts for PAD20_15:

(Start: 57 @11274 has 1 MA's), (Start: 61 @11280 has 4 MA's), (Start: 63 @11283 has 55 MA's), (Start: 66 @11289 has 131 MA's), (Start: 83 @11322 has 6 MA's), (Start: 86 @11328 has 9 MA's), (93, 11340), (Start: 118 @11367 has 1 MA's), (124, 11376), (140, 11406), (142, 11409), (143, 11412), (152, 11424), (165, 11448), (181, 11478), (200, 11508), (207, 11523), (211, 11535), (212, 11538), (213, 11541), (220, 11565), (230, 11589), (238, 11607), (257, 11634), (261, 11643), (265, 11649), (277, 11676), (290, 11700), (302, 11727), (319, 11754), (323, 11760), (358, 11823), (362, 11835), (383, 11877), (385, 11880), (387, 11883), (404, 11934), (408, 11949), (423, 11970), (426, 11985), (436, 12006), (472, 12078), (473, 12081), (494, 12099), (496, 12102), (499, 12111), (515, 12159), (521, 12171), (531, 12195), (534, 12201), (540, 12216),

Gene: PAS50_15 Start: 11298, Stop: 12239, Start Num: 66

Candidate Starts for PAS50_15:

(Start: 61 @11289 has 4 MA's), (Start: 66 @11298 has 131 MA's), (Start: 83 @11331 has 6 MA's), (93, 11349), (Start: 118 @11376 has 1 MA's), (124, 11385), (138, 11412), (140, 11415), (142, 11418), (143, 11421), (152, 11433), (157, 11442), (165, 11457), (181, 11487), (200, 11517), (207, 11532), (213, 11550), (217, 11565), (220, 11574), (230, 11598), (238, 11616), (265, 11658), (277, 11685), (299, 11727), (302, 11736), (319, 11763), (323, 11769), (358, 11832), (362, 11844), (383, 11886), (385, 11889), (387, 11892), (399, 11925), (404, 11943), (408, 11958), (411, 11967), (426, 11994), (433, 12009), (436, 12015), (472, 12087), (473, 12090), (494, 12108), (496, 12111), (499, 12120), (515, 12168), (521, 12180), (524, 12189), (531, 12204), (534, 12210), (540, 12225),

Gene: PCoral7_18 Start: 15883, Stop: 16743, Start Num: 70

Candidate Starts for PCoral7_18:

(Start: 70 @15883 has 24 MA's), (Start: 85 @15898 has 1 MA's), (108, 15928), (123, 15949), (174, 16039), (215, 16120), (351, 16324), (352, 16327), (454, 16522), (492, 16612), (509, 16654), (529, 16702), (531, 16708),

Gene: PHL010M04_15 Start: 11286, Stop: 12233, Start Num: 66

Candidate Starts for PHL010M04_15:

(Start: 56 @11271 has 4 MA's), (Start: 61 @11277 has 4 MA's), (Start: 63 @11280 has 55 MA's), (Start: 66 @11286 has 131 MA's), (Start: 83 @11319 has 6 MA's), (93, 11337), (95, 11340), (Start: 100 @11346 has 5 MA's), (Start: 118 @11370 has 1 MA's), (124, 11379), (140, 11409), (142, 11412), (143, 11415), (152, 11427), (157, 11436), (165, 11451), (181, 11481), (200, 11511), (207, 11526), (209,

11532), (212, 11541), (230, 11592), (238, 11610), (257, 11637), (261, 11646), (265, 11652), (277, 11679), (290, 11703), (302, 11730), (317, 11754), (323, 11763), (358, 11826), (362, 11838), (383, 11880), (385, 11883), (387, 11886), (404, 11937), (408, 11952), (423, 11973), (426, 11988), (433, 12003), (436, 12009), (472, 12081), (473, 12084), (494, 12102), (496, 12105), (499, 12114), (515, 12162), (521, 12174), (524, 12183), (531, 12198), (534, 12204), (540, 12219),

Gene: PHL037M02_15 Start: 11301, Stop: 12242, Start Num: 66

Candidate Starts for PHL037M02_15:

(55, 11283), (Start: 66 @11301 has 131 MA's), (Start: 83 @11334 has 6 MA's), (Start: 86 @11340 has 9 MA's), (93, 11352), (Start: 118 @11379 has 1 MA's), (124, 11388), (138, 11415), (140, 11418), (142, 11421), (143, 11424), (152, 11436), (157, 11445), (181, 11490), (200, 11520), (207, 11535), (209, 11541), (211, 11547), (212, 11550), (213, 11553), (220, 11577), (230, 11601), (238, 11619), (265, 11661), (277, 11688), (278, 11691), (290, 11712), (317, 11763), (323, 11772), (358, 11835), (362, 11847), (383, 11889), (385, 11892), (387, 11895), (404, 11946), (408, 11961), (423, 11982), (426, 11997), (433, 12012), (436, 12018), (472, 12090), (473, 12093), (494, 12111), (496, 12114), (515, 12171), (521, 12183), (524, 12192), (531, 12207), (534, 12213), (540, 12228),

Gene: PHL060L00_15 Start: 11302, Stop: 12249, Start Num: 66

Candidate Starts for PHL060L00_15:

(Start: 56 @11287 has 4 MA's), (Start: 61 @11293 has 4 MA's), (Start: 66 @11302 has 131 MA's), (Start: 83 @11335 has 6 MA's), (93, 11353), (95, 11356), (Start: 100 @11362 has 5 MA's), (Start: 118 @11386 has 1 MA's), (124, 11395), (140, 11425), (142, 11428), (143, 11431), (152, 11443), (157, 11452), (161, 11458), (165, 11467), (181, 11497), (200, 11527), (207, 11542), (213, 11560), (230, 11608), (238, 11626), (265, 11668), (277, 11695), (290, 11719), (302, 11746), (319, 11773), (323, 11779), (358, 11842), (383, 11896), (385, 11899), (387, 11902), (399, 11935), (404, 11953), (408, 11968), (423, 11989), (426, 12004), (433, 12019), (436, 12025), (472, 12097), (473, 12100), (494, 12118), (496, 12121), (515, 12178), (521, 12190), (524, 12199), (531, 12214), (534, 12220), (540, 12235),

Gene: PHL067M10_15 Start: 11269, Stop: 12210, Start Num: 66

Candidate Starts for PHL067M10_15:

(Start: 57 @11254 has 1 MA's), (Start: 61 @11260 has 4 MA's), (Start: 63 @11263 has 55 MA's), (Start: 66 @11269 has 131 MA's), (Start: 83 @11302 has 6 MA's), (93, 11320), (Start: 107 @11338 has 33 MA's), (Start: 118 @11347 has 1 MA's), (124, 11356), (140, 11386), (142, 11389), (143, 11392), (152, 11404), (157, 11413), (165, 11428), (181, 11458), (200, 11488), (207, 11503), (211, 11515), (212, 11518), (213, 11521), (220, 11545), (230, 11569), (238, 11587), (261, 11623), (265, 11629), (277, 11656), (278, 11659), (290, 11680), (302, 11707), (319, 11734), (323, 11740), (358, 11803), (362, 11815), (383, 11857), (385, 11860), (387, 11863), (404, 11914), (408, 11929), (423, 11950), (426, 11965), (433, 11980), (436, 11986), (472, 12058), (473, 12061), (494, 12079), (496, 12082), (499, 12091), (515, 12139), (521, 12151), (524, 12160), (531, 12175), (534, 12181), (540, 12196),

Gene: PHL071N05_15 Start: 11297, Stop: 12238, Start Num: 66

Candidate Starts for PHL071N05_15:

(Start: 57 @11282 has 1 MA's), (Start: 61 @11288 has 4 MA's), (Start: 66 @11297 has 131 MA's), (Start: 83 @11330 has 6 MA's), (Start: 86 @11336 has 9 MA's), (93, 11348), (Start: 118 @11375 has 1 MA's), (124, 11384), (140, 11414), (142, 11417), (143, 11420), (152, 11432), (157, 11441), (165, 11456), (181, 11486), (200, 11516), (207, 11531), (213, 11549), (230, 11597), (238, 11615), (261, 11651), (265, 11657), (277, 11684), (294, 11717), (319, 11762), (323, 11768), (358, 11831), (362, 11843), (383, 11885), (385, 11888), (387, 11891), (408, 11957), (423, 11978), (426, 11993), (433, 12008), (436, 12014), (472, 12086), (473, 12089), (494, 12107), (496, 12110), (499, 12119), (515, 12167), (521, 12179), (524, 12188), (531, 12203), (534, 12209), (540, 12224),

Gene: PHL111M01_15 Start: 11287, Stop: 12234, Start Num: 66

Candidate Starts for PHL111M01_15:

(Start: 61 @11278 has 4 MA's), (Start: 63 @11281 has 55 MA's), (Start: 66 @11287 has 131 MA's), (Start: 83 @11320 has 6 MA's), (93, 11338), (95, 11341), (Start: 100 @11347 has 5 MA's), (Start: 118 @11371 has 1 MA's), (124, 11380), (140, 11410), (142, 11413), (143, 11416), (152, 11428), (165, 11452), (181, 11482), (200, 11512), (207, 11527), (211, 11539), (212, 11542), (213, 11545), (230, 11593), (238, 11611), (261, 11647), (265, 11653), (277, 11680), (302, 11731), (317, 11755), (323, 11764), (358, 11827), (362, 11839), (383, 11881), (385, 11884), (387, 11887), (404, 11938), (408, 11953), (423, 11974), (426, 11989), (433, 12004), (436, 12010), (472, 12082), (473, 12085), (494, 12103), (496, 12106), (499, 12115), (515, 12163), (521, 12175), (524, 12184), (531, 12199), (534, 12205), (540, 12220),

Gene: PHL112N00_15 Start: 11284, Stop: 12231, Start Num: 66

Candidate Starts for PHL112N00_15:

(Start: 61 @11275 has 4 MA's), (Start: 66 @11284 has 131 MA's), (Start: 83 @11317 has 6 MA's), (Start: 86 @11323 has 9 MA's), (93, 11335), (Start: 100 @11344 has 5 MA's), (124, 11377), (140, 11407), (142, 11410), (143, 11413), (152, 11425), (157, 11434), (165, 11449), (181, 11479), (200, 11509), (207, 11524), (211, 11536), (212, 11539), (213, 11542), (230, 11590), (238, 11608), (261, 11644), (265, 11650), (277, 11677), (278, 11680), (302, 11728), (319, 11755), (323, 11761), (358, 11824), (383, 11878), (385, 11881), (387, 11884), (399, 11917), (404, 11935), (408, 11950), (423, 11971), (426, 11986), (433, 12001), (436, 12007), (472, 12079), (473, 12082), (494, 12100), (496, 12103), (499, 12112), (515, 12160), (521, 12172), (524, 12181), (531, 12196), (534, 12202), (540, 12217),

Gene: PHL113M01_15 Start: 11311, Stop: 12252, Start Num: 66

Candidate Starts for PHL113M01_15:

(Start: 57 @11296 has 1 MA's), (Start: 61 @11302 has 4 MA's), (Start: 66 @11311 has 131 MA's), (Start: 83 @11344 has 6 MA's), (93, 11362), (Start: 118 @11389 has 1 MA's), (124, 11398), (138, 11425), (140, 11428), (142, 11431), (143, 11434), (152, 11446), (157, 11455), (165, 11470), (181, 11500), (200, 11530), (207, 11545), (211, 11557), (217, 11578), (220, 11587), (230, 11611), (238, 11629), (261, 11665), (265, 11671), (277, 11698), (299, 11740), (302, 11749), (319, 11776), (323, 11782), (358, 11845), (362, 11857), (383, 11899), (385, 11902), (387, 11905), (404, 11956), (408, 11971), (423, 11992), (426, 12007), (433, 12022), (436, 12028), (472, 12100), (473, 12103), (494, 12121), (496, 12124), (499, 12133), (515, 12181), (521, 12193), (524, 12202), (531, 12217), (534, 12223), (540, 12238),

Gene: PHL114L00_15 Start: 11289, Stop: 12236, Start Num: 66

Candidate Starts for PHL114L00_15:

(Start: 61 @11280 has 4 MA's), (Start: 66 @11289 has 131 MA's), (Start: 83 @11322 has 6 MA's), (93, 11340), (95, 11343), (Start: 100 @11349 has 5 MA's), (Start: 118 @11373 has 1 MA's), (124, 11382), (140, 11412), (142, 11415), (143, 11418), (152, 11430), (165, 11454), (181, 11484), (200, 11514), (207, 11529), (211, 11541), (212, 11544), (213, 11547), (220, 11571), (230, 11595), (238, 11613), (257, 11640), (261, 11649), (277, 11682), (278, 11685), (290, 11706), (302, 11733), (319, 11760), (323, 11766), (358, 11829), (362, 11841), (383, 11883), (385, 11886), (387, 11889), (404, 11940), (408, 11955), (423, 11976), (426, 11991), (433, 12006), (436, 12012), (472, 12084), (473, 12087), (494, 12105), (496, 12108), (515, 12165), (521, 12177), (524, 12186), (531, 12201), (534, 12207), (540, 12222),

Gene: Pablito_19 Start: 14808, Stop: 15662, Start Num: 63

Candidate Starts for Pablito_19:

(Start: 63 @14808 has 55 MA's), (99, 14862), (124, 14898), (374, 15294), (378, 15303), (456, 15459), (471, 15498), (503, 15561), (542, 15651), (544, 15654), (545, 15657),

Gene: Pace1224_17 Start: 15628, Stop: 16848, Start Num: 17

Candidate Starts for Pace1224_17:

(7, 15304), (Start: 17 @15628 has 2 MA's), (Start: 25 @15664 has 250 MA's), (Start: 68 @15790 has 6 MA's), (116, 15850), (130, 15874), (154, 15916), (155, 15919), (171, 15949), (211, 16021), (218, 16045), (224, 16060), (226, 16066), (243, 16105), (247, 16111), (332, 16255), (343, 16273), (354, 16294), (358, 16300), (366, 16324), (381, 16360), (443, 16525), (461, 16567), (463, 16573), (526, 16744), (547, 16810),

Gene: Padfoot_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Padfoot_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Padpat_22 Start: 16011, Stop: 17147, Start Num: 25

Candidate Starts for Padpat_22:

(Start: 25 @16011 has 250 MA's), (Start: 68 @16128 has 6 MA's), (130, 16218), (141, 16239), (154, 16260), (168, 16287), (302, 16542), (352, 16623), (385, 16698), (392, 16713), (443, 16824), (461, 16866), (493, 16959), (503, 16983), (541, 17076), (549, 17115), (550, 17133),

Gene: Paedore_19 Start: 14964, Stop: 15821, Start Num: 63

Candidate Starts for Paedore_19:

(Start: 63 @14964 has 55 MA's), (99, 15018), (124, 15054), (378, 15462), (472, 15660), (542, 15810), (544, 15813),

Gene: Paito_17 Start: 15610, Stop: 16782, Start Num: 25

Candidate Starts for Paito_17:

(Start: 25 @15610 has 250 MA's), (Start: 68 @15730 has 6 MA's), (Start: 79 @15748 has 5 MA's), (116, 15799), (130, 15823), (152, 15862), (166, 15889), (210, 15967), (211, 15970), (217, 15991), (247, 16045), (292, 16120), (351, 16222), (358, 16234), (425, 16429), (443, 16459), (451, 16477), (487, 16579), (547, 16744),

Gene: PantheRoc_18 Start: 16271, Stop: 17098, Start Num: 115

Candidate Starts for PantheRoc_18:

(Start: 115 @16271 has 37 MA's), (163, 16346), (221, 16466), (223, 16472), (275, 16538), (279, 16550), (308, 16607), (314, 16616), (338, 16652), (342, 16661), (355, 16682), (399, 16766), (429, 16841), (442, 16862), (500, 16985), (512, 17018),

Gene: Paola_20 Start: 16323, Stop: 17453, Start Num: 28

Candidate Starts for Paola_20:

(Start: 28 @16323 has 36 MA's), (152, 16563), (154, 16566), (168, 16593), (217, 16692), (275, 16794), (302, 16848), (323, 16878), (345, 16914), (346, 16917), (351, 16926), (383, 17001), (385, 17004), (411, 17082), (425, 17100), (427, 17106), (443, 17130), (444, 17133), (446, 17139), (461, 17172), (541, 17382), (549, 17421), (550, 17439),

Gene: Paolo_21 Start: 15362, Stop: 16219, Start Num: 63

Candidate Starts for Paolo_21:

(Start: 63 @15362 has 55 MA's), (274, 15683), (289, 15719), (378, 15860), (471, 16055), (542, 16208), (544, 16211),

Gene: Parvaparticeps_34 Start: 24373, Stop: 23477, Start Num: 93

Candidate Starts for Parvaparticeps_34:

(93, 24373), (95, 24370), (136, 24310), (140, 24304), (161, 24274), (226, 24139), (263, 24079), (317, 23974), (353, 23911), (399, 23800), (408, 23767), (431, 23716), (449, 23680), (457, 23665), (477, 23632),

Gene: PastaFagioli_17 Start: 13123, Stop: 13977, Start Num: 66

Candidate Starts for PastaFagioli_17:

(Start: 66 @13123 has 131 MA's), (89, 13168), (114, 13198), (133, 13228), (209, 13351), (245, 13408), (399, 13651), (404, 13669), (427, 13723), (459, 13780), (509, 13897), (516, 13909), (544, 13969),

Gene: Patio_43 Start: 29772, Stop: 30689, Start Num: 81

Candidate Starts for Patio_43:

(Start: 81 @29772 has 28 MA's), (137, 29850), (178, 29925), (247, 30033), (297, 30117), (395, 30297), (397, 30303), (476, 30519), (493, 30558), (521, 30633), (527, 30645), (531, 30654), (540, 30675),

Gene: Patt_23 Start: 17231, Stop: 18364, Start Num: 25

Candidate Starts for Patt_23:

(Start: 25 @17231 has 250 MA's), (32, 17249), (49, 17321), (Start: 68 @17351 has 6 MA's), (130, 17441), (134, 17450), (154, 17483), (166, 17507), (218, 17612), (302, 17765), (348, 17834), (351, 17840), (411, 17993), (425, 18011), (443, 18041), (461, 18083), (462, 18086), (535, 18278), (541, 18293), (549, 18332), (550, 18350),

Gene: Pavo_20 Start: 15672, Stop: 16529, Start Num: 62

Candidate Starts for Pavo_20:

(Start: 62 @15672 has 21 MA's), (84, 15708), (Start: 112 @15744 has 1 MA's), (138, 15786), (218, 15930), (276, 16002), (302, 16059), (304, 16062), (331, 16104), (376, 16164), (378, 16170), (427, 16281), (463, 16344), (471, 16365), (531, 16494), (542, 16518), (544, 16521),

Gene: Peanam_22 Start: 15375, Stop: 16514, Start Num: 25

Candidate Starts for Peanam_22:

(Start: 25 @15375 has 250 MA's), (Start: 68 @15495 has 6 MA's), (130, 15585), (168, 15654), (217, 15753), (218, 15756), (275, 15855), (302, 15909), (352, 15990), (385, 16065), (392, 16080), (427, 16167), (443, 16191), (461, 16233), (462, 16236), (481, 16287), (493, 16326), (526, 16410), (535, 16428), (541, 16443), (549, 16482), (550, 16500),

Gene: Pecas_17 Start: 13119, Stop: 13973, Start Num: 66

Candidate Starts for Pecas_17:

(Start: 66 @13119 has 131 MA's), (114, 13194), (133, 13224), (138, 13233), (204, 13332), (209, 13347), (245, 13404), (301, 13500), (304, 13509), (328, 13542), (388, 13626), (393, 13641), (509, 13893), (516, 13905), (544, 13965),

Gene: Peeb_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Peeb_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Peel_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Peel_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Pemberton_43 Start: 26958, Stop: 27878, Start Num: 86

Candidate Starts for Pemberton_43:

(Start: 86 @26958 has 9 MA's), (137, 27039), (163, 27084), (205, 27153), (302, 27321), (356, 27405), (376, 27456), (397, 27489), (469, 27687), (476, 27705), (493, 27747), (529, 27837), (531, 27843), (540, 27864),

Gene: Pepperoni_16 Start: 14166, Stop: 15014, Start Num: 107

Candidate Starts for Pepperoni_16:

(54, 14079), (Start: 107 @14166 has 33 MA's), (114, 14172), (166, 14256), (196, 14307), (217, 14361), (237, 14394), (266, 14427), (298, 14493), (308, 14514), (311, 14517), (324, 14538), (355, 14595), (459, 14817), (463, 14823), (531, 14979), (534, 14985),

Gene: Percival_16 Start: 13829, Stop: 14695, Start Num: 63

Candidate Starts for Percival_16:

(Start: 63 @13829 has 55 MA's), (135, 13943), (184, 14030), (185, 14033), (187, 14039), (255, 14141), (266, 14156), (291, 14207), (301, 14228), (378, 14342), (458, 14501), (514, 14621), (516, 14627), (530, 14657),

Gene: Periodt_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Periodt_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: PermaG_21 Start: 15549, Stop: 16442, Start Num: 69

Candidate Starts for PermaG_21:

(Start: 69 @15549 has 33 MA's), (219, 15813), (274, 15894), (275, 15897), (276, 15903), (310, 15972), (340, 16020), (426, 16188), (463, 16257), (471, 16278), (472, 16281), (503, 16341), (514, 16368), (515, 16371), (516, 16374), (531, 16407), (533, 16410), (544, 16434),

Gene: PeteyPab_32 Start: 28461, Stop: 29327, Start Num: 66

Candidate Starts for PeteyPab_32:

(Start: 66 @28461 has 131 MA's), (82, 28485), (Start: 118 @28530 has 1 MA's), (152, 28590), (173, 28629), (219, 28725), (327, 28887), (348, 28920), (395, 28995), (402, 29019), (479, 29160), (493, 29196), (505, 29223), (525, 29280),

Gene: Petra_20 Start: 16194, Stop: 17054, Start Num: 72

Candidate Starts for Petra_20:

(Start: 68 @16188 has 6 MA's), (Start: 72 @16194 has 26 MA's), (153, 16311), (174, 16350), (215, 16431), (286, 16530), (352, 16638), (397, 16722), (425, 16788), (427, 16794), (492, 16923), (509, 16965),

Gene: Pharb_21 Start: 16291, Stop: 17427, Start Num: 25

Candidate Starts for Pharb_21:

(Start: 25 @16291 has 250 MA's), (Start: 68 @16414 has 6 MA's), (Start: 79 @16432 has 5 MA's), (113, 16477), (116, 16483), (134, 16513), (154, 16546), (211, 16651), (217, 16672), (219, 16678), (253, 16735), (275, 16774), (292, 16804), (345, 16891), (362, 16927), (425, 17074), (443, 17104), (446, 17113), (461, 17146), (462, 17149), (463, 17152), (484, 17212), (493, 17239), (528, 17326), (546, 17383), (547, 17389), (549, 17395),

Gene: Pharpay_30 Start: 17808, Stop: 18698, Start Num: 60

Candidate Starts for Pharpay_30:

(Start: 60 @17808 has 92 MA's), (254, 18132), (270, 18156), (284, 18189), (381, 18345), (408, 18411), (464, 18519), (521, 18639), (544, 18690), (545, 18693),

Gene: PhelpsODU_21 Start: 15233, Stop: 16372, Start Num: 25

Candidate Starts for PhelpsODU_21:

(Start: 25 @15233 has 250 MA's), (Start: 68 @15353 has 6 MA's), (130, 15443), (168, 15512), (275, 15713), (302, 15767), (323, 15797), (392, 15938), (410, 15998), (425, 16019), (443, 16049), (461, 16091), (462, 16094), (463, 16097), (493, 16184), (503, 16208), (535, 16286), (541, 16301), (549, 16340), (550, 16358),

Gene: Phendrix_86 Start: 51239, Stop: 52195, Start Num: 63

Candidate Starts for Phendrix_86:

(Start: 63 @51239 has 55 MA's), (Start: 94 @51278 has 6 MA's), (156, 51383), (168, 51404), (197, 51455), (202, 51461), (214, 51494), (322, 51662), (345, 51692), (418, 51872), (440, 51926), (450, 51947), (462, 51986), (463, 51989), (472, 52016), (473, 52019), (480, 52025), (487, 52052), (494, 52070), (512, 52109), (531, 52154), (534, 52160), (536, 52163),

Gene: Phettuccine_19 Start: 14993, Stop: 15850, Start Num: 60

Candidate Starts for Phettuccine_19:

(Start: 60 @14993 has 92 MA's), (Start: 112 @15065 has 1 MA's), (124, 15083), (142, 15113), (162, 15146), (218, 15251), (245, 15278), (302, 15380), (331, 15425), (378, 15491), (381, 15497), (405, 15551), (408, 15563), (463, 15665), (466, 15677), (471, 15686), (542, 15839), (544, 15842),

Gene: PhigPhack_18 Start: 13118, Stop: 13972, Start Num: 66

Candidate Starts for PhigPhack_18:

(Start: 66 @13118 has 131 MA's), (114, 13193), (133, 13223), (138, 13232), (204, 13331), (209, 13346), (245, 13403), (301, 13499), (304, 13508), (328, 13541), (388, 13625), (399, 13646), (456, 13763), (516, 13904), (544, 13964),

Gene: PhillyJawn_23 Start: 13565, Stop: 14425, Start Num: 69

Candidate Starts for PhillyJawn_23:

(Start: 69 @13565 has 33 MA's), (89, 13601), (Start: 92 @13604 has 1 MA's), (Start: 112 @13625 has 1 MA's), (Start: 115 @13631 has 37 MA's), (124, 13643), (133, 13658), (171, 13724), (185, 13751), (209, 13781), (219, 13814), (286, 13907), (376, 14057), (378, 14063), (393, 14096), (427, 14174), (540, 14411), (542, 14414),

Gene: Phingu_25 Start: 13784, Stop: 14644, Start Num: 69

Candidate Starts for Phingu_25:

(Start: 69 @13784 has 33 MA's), (89, 13820), (Start: 92 @13823 has 1 MA's), (Start: 112 @13844 has 1 MA's), (Start: 115 @13850 has 37 MA's), (124, 13862), (133, 13877), (171, 13943), (185, 13970), (209, 14000), (219, 14033), (286, 14126), (300, 14153), (353, 14246), (376, 14276), (378, 14282), (393, 14315), (427, 14393), (540, 14630), (542, 14633),

Gene: PhinkBoden_47 Start: 29095, Stop: 29976, Start Num: 74

Candidate Starts for PhinkBoden_47:

(Start: 74 @29095 has 13 MA's), (Start: 110 @29143 has 2 MA's), (130, 29170), (170, 29242), (208, 29308), (217, 29338), (293, 29446), (351, 29539), (362, 29563), (367, 29578), (411, 29674), (443, 29722), (514, 29902), (530, 29938),

Gene: Phisb_17 Start: 13132, Stop: 13986, Start Num: 66

Candidate Starts for Phisb_17:

(Start: 66 @13132 has 131 MA's), (114, 13207), (133, 13237), (138, 13246), (204, 13345), (209, 13360), (245, 13417), (301, 13513), (304, 13522), (328, 13555), (388, 13639), (393, 13654), (509, 13906), (516, 13918), (544, 13978),

Gene: Phish_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Phish_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Phloodle_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Phloodle_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Phomeo_39 Start: 29529, Stop: 30470, Start Num: 81

Candidate Starts for Phomeo_39:

(Start: 81 @29529 has 28 MA's), (137, 29616), (178, 29691), (214, 29757), (247, 29799), (282, 29856), (397, 30069), (405, 30096), (443, 30207), (493, 30339), (531, 30435),

Gene: Phonegingi_22 Start: 13626, Stop: 14486, Start Num: 69

Candidate Starts for Phonegingi_22:

(Start: 69 @13626 has 33 MA's), (89, 13662), (Start: 92 @13665 has 1 MA's), (Start: 112 @13686 has 1 MA's), (Start: 115 @13692 has 37 MA's), (133, 13719), (171, 13785), (185, 13812), (209, 13842), (219, 13875), (286, 13968), (300, 13995), (376, 14118), (378, 14124), (393, 14157), (408, 14196), (427, 14235), (515, 14415), (516, 14418), (540, 14472), (542, 14475),

Gene: Phrank_21 Start: 15187, Stop: 16326, Start Num: 25

Candidate Starts for Phrank_21:

(Start: 25 @15187 has 250 MA's), (Start: 68 @15307 has 6 MA's), (130, 15397), (168, 15466), (275, 15667), (392, 15892), (410, 15952), (425, 15973), (461, 16045), (462, 16048), (463, 16051), (493, 16138), (503, 16162), (535, 16240), (541, 16255), (549, 16294), (550, 16312),

Gene: Phreak_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Phreak_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: PhriskyACE_18 Start: 15989, Stop: 16825, Start Num: 106

Candidate Starts for PhriskyACE_18:

(Start: 106 @15989 has 19 MA's), (Start: 115 @15998 has 37 MA's), (143, 16040), (163, 16073), (171, 16088), (223, 16199), (225, 16205), (235, 16214), (262, 16244), (291, 16298), (311, 16337), (328, 16367), (338, 16379), (355, 16409), (361, 16418), (429, 16568), (472, 16658), (512, 16745),

Gene: PhrostedPhlake_19 Start: 16169, Stop: 17029, Start Num: 72

Candidate Starts for PhrostedPhlake_19:

(Start: 68 @16163 has 6 MA's), (Start: 72 @16169 has 26 MA's), (174, 16325), (215, 16406), (286, 16505), (352, 16613), (397, 16697), (425, 16763), (427, 16769), (492, 16898), (503, 16925), (509, 16940),

Gene: PhunaPhoke_30 Start: 17781, Stop: 18671, Start Num: 60

Candidate Starts for PhunaPhoke_30:

(Start: 60 @17781 has 92 MA's), (254, 18105), (270, 18129), (284, 18162), (381, 18318), (408, 18384), (464, 18492), (521, 18612), (544, 18663), (545, 18666),

Gene: Piatt_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Piatt_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Pickett_16 Start: 13834, Stop: 14682, Start Num: 107

Candidate Starts for Pickett_16:

(54, 13747), (Start: 107 @13834 has 33 MA's), (114, 13840), (Start: 118 @13846 has 1 MA's), (196, 13975), (217, 14029), (237, 14062), (266, 14095), (308, 14182), (311, 14185), (324, 14206), (355, 14263), (459, 14485), (463, 14491), (534, 14653),

Gene: Pickles13_22 Start: 13990, Stop: 14850, Start Num: 69

Candidate Starts for Pickles13_22:

(Start: 69 @13990 has 33 MA's), (89, 14026), (Start: 92 @14029 has 1 MA's), (Start: 112 @14050 has 1 MA's), (Start: 115 @14056 has 37 MA's), (124, 14068), (131, 14077), (133, 14083), (171, 14149), (185, 14176), (209, 14206), (219, 14239), (275, 14305), (286, 14332), (300, 14359), (357, 14458), (376, 14482), (378, 14488), (393, 14521), (427, 14599), (515, 14779), (531, 14815), (540, 14836),

Gene: Pigu_16 Start: 12876, Stop: 13781, Start Num: 56

Candidate Starts for Pigu_16:

(Start: 56 @12876 has 4 MA's), (Start: 100 @12948 has 5 MA's), (129, 12984), (143, 13011), (157, 13035), (161, 13041), (181, 13080), (198, 13107), (285, 13263), (319, 13326), (375, 13431), (404, 13488), (441, 13572), (467, 13620), (515, 13710), (518, 13716), (521, 13722),

Gene: PinkYoshi_17 Start: 15468, Stop: 16640, Start Num: 25

Candidate Starts for PinkYoshi_17:

(7, 15135), (Start: 25 @15468 has 250 MA's), (Start: 68 @15588 has 6 MA's), (Start: 79 @15606 has 5 MA's), (113, 15651), (116, 15657), (152, 15720), (171, 15756), (210, 15825), (211, 15828), (217, 15849), (247, 15903), (275, 15948), (292, 15978), (351, 16080), (358, 16092), (362, 16104), (368, 16122), (425, 16287), (443, 16317), (451, 16335), (461, 16359), (505, 16479), (541, 16569), (547, 16602),

Gene: Pinnie_18 Start: 16180, Stop: 17358, Start Num: 25

Candidate Starts for Pinnie_18:

(Start: 25 @16180 has 250 MA's), (Start: 79 @16324 has 5 MA's), (116, 16375), (154, 16441), (155, 16444), (171, 16474), (211, 16546), (243, 16615), (247, 16621), (326, 16756), (358, 16810), (381, 16870), (417, 16978), (443, 17035), (461, 17077), (524, 17251), (526, 17254), (547, 17320),

Gene: Pipp_18 Start: 15781, Stop: 16647, Start Num: 68

Candidate Starts for Pipp_18:

(Start: 68 @15781 has 6 MA's), (Start: 72 @15787 has 26 MA's), (Start: 85 @15802 has 1 MA's), (174, 15943), (215, 16024), (352, 16231), (397, 16315), (425, 16381), (454, 16426), (492, 16516), (503,

16543), (509, 16558),

Gene: Pirate_15 Start: 11280, Stop: 12227, Start Num: 66

Candidate Starts for Pirate_15:

(Start: 56 @11265 has 4 MA's), (Start: 61 @11271 has 4 MA's), (Start: 63 @11274 has 55 MA's), (Start: 66 @11280 has 131 MA's), (Start: 83 @11313 has 6 MA's), (93, 11331), (95, 11334), (Start: 118 @11364 has 1 MA's), (124, 11373), (140, 11403), (142, 11406), (143, 11409), (152, 11421), (157, 11430), (181, 11475), (200, 11505), (207, 11520), (211, 11532), (212, 11535), (213, 11538), (224, 11571), (230, 11586), (238, 11604), (261, 11640), (265, 11646), (277, 11673), (290, 11697), (302, 11724), (319, 11751), (323, 11757), (358, 11820), (362, 11832), (383, 11874), (385, 11877), (387, 11880), (404, 11931), (408, 11946), (423, 11967), (426, 11982), (433, 11997), (436, 12003), (472, 12075), (473, 12078), (494, 12096), (496, 12099), (499, 12108), (515, 12156), (521, 12168), (524, 12177), (531, 12192), (534, 12198), (540, 12213),

Gene: Pisa1_21 Start: 16089, Stop: 17225, Start Num: 25

Candidate Starts for Pisa1_21:

(Start: 25 @16089 has 250 MA's), (Start: 68 @16206 has 6 MA's), (141, 16317), (154, 16338), (168, 16365), (275, 16566), (302, 16620), (352, 16701), (385, 16776), (392, 16791), (443, 16902), (461, 16944), (493, 17037), (503, 17061), (541, 17154), (549, 17193), (550, 17211),

Gene: Pisa4_21 Start: 16089, Stop: 17225, Start Num: 25

Candidate Starts for Pisa4_21:

(Start: 25 @16089 has 250 MA's), (Start: 68 @16206 has 6 MA's), (141, 16317), (154, 16338), (168, 16365), (275, 16566), (302, 16620), (352, 16701), (385, 16776), (392, 16791), (443, 16902), (461, 16944), (493, 17037), (503, 17061), (541, 17154), (549, 17193), (550, 17211),

Gene: Pitbull_17 Start: 12204, Stop: 13190, Start Num: 51

Candidate Starts for Pitbull_17:

(Start: 51 @12204 has 3 MA's), (Start: 86 @12258 has 9 MA's), (95, 12270), (Start: 100 @12276 has 5 MA's), (140, 12333), (142, 12336), (143, 12339), (144, 12342), (161, 12366), (207, 12450), (211, 12462), (219, 12489), (241, 12528), (265, 12558), (345, 12711), (375, 12774), (393, 12798), (399, 12813), (411, 12855), (434, 12900), (478, 13002), (483, 13026), (524, 13140), (537, 13170),

Gene: Pixie_21 Start: 16222, Stop: 17358, Start Num: 25

Candidate Starts for Pixie_21:

(Start: 25 @16222 has 250 MA's), (Start: 68 @16345 has 6 MA's), (113, 16408), (116, 16414), (134, 16444), (154, 16477), (211, 16582), (217, 16603), (219, 16609), (253, 16666), (275, 16705), (292, 16735), (345, 16822), (362, 16858), (372, 16885), (425, 17005), (443, 17035), (446, 17044), (461, 17077), (462, 17080), (463, 17083), (493, 17170), (528, 17257), (547, 17320), (549, 17326),

Gene: Plagueis_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Plagueis_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Pleakley_49 Start: 29758, Stop: 30678, Start Num: 81

Candidate Starts for Pleakley_49:

(Start: 81 @29758 has 28 MA's), (137, 29839), (178, 29914), (209, 29965), (282, 30079), (395, 30286), (493, 30547), (515, 30610), (531, 30643),

Gene: Pokerus_21 Start: 15968, Stop: 17104, Start Num: 25

Candidate Starts for Pokerus_21:

(Start: 25 @15968 has 250 MA's), (Start: 68 @16085 has 6 MA's), (130, 16175), (141, 16196), (154, 16217), (168, 16244), (302, 16499), (352, 16580), (385, 16655), (392, 16670), (443, 16781), (461, 16823), (493, 16916), (503, 16940), (541, 17033), (549, 17072), (550, 17090),

Gene: Polly_18 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Polly_18:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500, 17663), (512, 17696),

Gene: Polyyuki_44 Start: 30428, Stop: 31354, Start Num: 79

Candidate Starts for Polyyuki_44:

(Start: 79 @30428 has 5 MA's), (Start: 110 @30464 has 2 MA's), (178, 30581), (205, 30620), (211, 30638), (247, 30689), (302, 30788), (351, 30863), (356, 30872), (390, 30947), (397, 30968), (443, 31106), (461, 31142), (475, 31181), (493, 31223), (515, 31286), (531, 31319),

Gene: PondAmelia_18 Start: 13114, Stop: 13971, Start Num: 66

Candidate Starts for PondAmelia_18:

(Start: 66 @13114 has 131 MA's), (78, 13138), (89, 13159), (114, 13189), (133, 13219), (138, 13228), (204, 13327), (209, 13342), (211, 13348), (245, 13399), (284, 13462), (301, 13495), (399, 13642), (401, 13651), (404, 13660), (454, 13756), (509, 13891), (516, 13903), (544, 13963),

Gene: Ponzi_55 Start: 36570, Stop: 37538, Start Num: 36

Candidate Starts for Ponzi_55:

(Start: 33 @36546 has 5 MA's), (Start: 36 @36570 has 1 MA's), (Start: 66 @36642 has 131 MA's), (114, 36720), (124, 36735), (182, 36840), (185, 36846), (280, 36996), (315, 37065), (439, 37296), (472, 37377), (489, 37413), (529, 37500), (531, 37506),

Gene: PotatoChip_33 Start: 28463, Stop: 29329, Start Num: 66

Candidate Starts for PotatoChip_33:

(Start: 66 @28463 has 131 MA's), (82, 28487), (Start: 118 @28532 has 1 MA's), (152, 28592), (173, 28631), (219, 28727), (327, 28889), (348, 28922), (395, 28997), (402, 29021), (479, 29162), (493, 29198), (505, 29225), (525, 29282),

Gene: Potty_30 Start: 17786, Stop: 18676, Start Num: 60

Candidate Starts for Potty_30:

(Start: 60 @17786 has 92 MA's), (254, 18110), (270, 18134), (284, 18167), (381, 18323), (464, 18497), (521, 18617), (544, 18668), (545, 18671),

Gene: Poultruss_29 Start: 17550, Stop: 18440, Start Num: 60

Candidate Starts for Poultruss_29:

(Start: 60 @17550 has 92 MA's), (138, 17670), (215, 17805), (254, 17874), (270, 17898), (284, 17931), (381, 18087), (399, 18120), (408, 18153), (464, 18261), (507, 18351), (521, 18381), (544, 18432),

Gene: Powerball_18 Start: 15995, Stop: 16822, Start Num: 115

Candidate Starts for Powerball_18:

(Start: 115 @15995 has 37 MA's), (163, 16070), (201, 16133), (210, 16157), (223, 16196), (225, 16202), (262, 16241), (291, 16295), (306, 16328), (308, 16331), (311, 16334), (338, 16376), (361, 16415), (399, 16490), (429, 16565), (472, 16655),

Gene: Primanti_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Primanti_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: PrincePatrick_18 Start: 15957, Stop: 16817, Start Num: 70

Candidate Starts for PrincePatrick_18:

(Start: 70 @15957 has 24 MA's), (Start: 85 @15972 has 1 MA's), (108, 16002), (123, 16023), (174, 16113), (215, 16194), (351, 16398), (352, 16401), (454, 16596), (492, 16686), (509, 16728), (529, 16776), (531, 16782),

Gene: Prithvi_22 Start: 15985, Stop: 17121, Start Num: 25

Candidate Starts for Prithvi_22:

(Start: 25 @15985 has 250 MA's), (Start: 68 @16102 has 6 MA's), (130, 16192), (141, 16213), (154, 16234), (168, 16261), (302, 16516), (352, 16597), (385, 16672), (392, 16687), (443, 16798), (461, 16840), (493, 16933), (503, 16957), (541, 17050), (549, 17089), (550, 17107),

Gene: Procrass1_15 Start: 11294, Stop: 12235, Start Num: 66

Candidate Starts for Procrass1_15:

(Start: 57 @11279 has 1 MA's), (Start: 61 @11285 has 4 MA's), (Start: 63 @11288 has 55 MA's), (Start: 66 @11294 has 131 MA's), (Start: 83 @11327 has 6 MA's), (93, 11345), (Start: 118 @11372 has 1 MA's), (124, 11381), (140, 11411), (142, 11414), (143, 11417), (152, 11429), (157, 11438), (165, 11453), (181, 11483), (200, 11513), (207, 11528), (211, 11540), (212, 11543), (213, 11546), (230, 11594), (238, 11612), (261, 11648), (265, 11654), (277, 11681), (290, 11705), (299, 11723), (302, 11732), (319, 11759), (323, 11765), (358, 11828), (362, 11840), (383, 11882), (385, 11885), (387, 11888), (399, 11921), (404, 11939), (408, 11954), (423, 11975), (426, 11990), (433, 12005), (436, 12011), (472, 12083), (473, 12086), (494, 12104), (496, 12107), (499, 12116), (515, 12164), (521, 12176), (524, 12185), (531, 12200), (534, 12206), (540, 12221),

Gene: Provolone_20 Start: 15402, Stop: 16259, Start Num: 62

Candidate Starts for Provolone_20:

(Start: 62 @15402 has 21 MA's), (84, 15438), (Start: 112 @15474 has 1 MA's), (138, 15516), (218, 15660), (245, 15687), (302, 15789), (304, 15792), (331, 15834), (333, 15837), (376, 15894), (378, 15900), (398, 15936), (463, 16074), (531, 16224), (542, 16248), (544, 16251),

Gene: Psycho_20 Start: 16299, Stop: 17429, Start Num: 28

Candidate Starts for Psycho_20:

(Start: 28 @16299 has 36 MA's), (113, 16473), (152, 16539), (168, 16569), (217, 16668), (275, 16770), (302, 16824), (323, 16854), (345, 16890), (346, 16893), (351, 16902), (383, 16977), (385, 16980), (399, 17016), (411, 17058), (425, 17076), (427, 17082), (443, 17106), (444, 17109), (461, 17148), (497, 17250), (541, 17358), (549, 17397), (550, 17415),

Gene: Puginator_21 Start: 15407, Stop: 16264, Start Num: 63

Candidate Starts for Puginator_21:

(Start: 63 @15407 has 55 MA's), (124, 15497), (274, 15728), (289, 15764), (378, 15905), (471, 16100), (542, 16253), (544, 16256),

Gene: QMacho_18 Start: 13602, Stop: 14456, Start Num: 66

Candidate Starts for QMacho_18:

(Start: 66 @13602 has 131 MA's), (114, 13677), (133, 13707), (138, 13716), (204, 13815), (209, 13830), (245, 13887), (301, 13983), (304, 13992), (328, 14025), (388, 14109), (393, 14124), (509, 14376), (516, 14388), (544, 14448),

Gene: Qhanda_24 Start: 17527, Stop: 18642, Start Num: 32

Candidate Starts for Qhanda_24:

(Start: 25 @17509 has 250 MA's), (32, 17527), (49, 17599), (Start: 68 @17629 has 6 MA's), (130, 17719), (154, 17761), (166, 17785), (218, 17890), (302, 18043), (348, 18112), (351, 18118), (411, 18271), (425, 18289), (443, 18319), (461, 18361), (462, 18364), (541, 18571), (549, 18610), (550, 18628),

Gene: QueenBey_15 Start: 11288, Stop: 12235, Start Num: 66

Candidate Starts for QueenBey_15:

(Start: 56 @11273 has 4 MA's), (Start: 61 @11279 has 4 MA's), (Start: 66 @11288 has 131 MA's), (Start: 83 @11321 has 6 MA's), (Start: 86 @11327 has 9 MA's), (93, 11339), (95, 11342), (Start: 100 @11348 has 5 MA's), (Start: 118 @11372 has 1 MA's), (124, 11381), (140, 11411), (142, 11414), (143, 11417), (152, 11429), (157, 11438), (181, 11483), (200, 11513), (207, 11528), (209, 11534), (212, 11543), (230, 11594), (238, 11612), (257, 11639), (261, 11648), (265, 11654), (277, 11681), (290, 11705), (302, 11732), (317, 11756), (323, 11765), (358, 11828), (383, 11882), (385, 11885), (387, 11888), (404, 11939), (408, 11954), (423, 11975), (426, 11990), (433, 12005), (436, 12011), (472, 12083), (473, 12086), (494, 12104), (496, 12107), (499, 12116), (515, 12164), (521, 12176), (524, 12185), (531, 12200), (534, 12206), (540, 12221),

Gene: Quenya_17 Start: 12664, Stop: 13518, Start Num: 66

Candidate Starts for Quenya_17:

(Start: 66 @12664 has 131 MA's), (89, 12709), (114, 12739), (133, 12769), (204, 12877), (209, 12892), (242, 12943), (304, 13054), (393, 13186), (399, 13192), (452, 13303), (458, 13318), (509, 13438), (514, 13444), (516, 13450), (544, 13510),

Gene: QuincyRose_21 Start: 16031, Stop: 17167, Start Num: 25

Candidate Starts for QuincyRose_21:

(Start: 25 @16031 has 250 MA's), (Start: 68 @16148 has 6 MA's), (130, 16238), (141, 16259), (154, 16280), (168, 16307), (302, 16562), (352, 16643), (385, 16718), (392, 16733), (443, 16844), (461, 16886), (493, 16979), (503, 17003), (541, 17096), (549, 17135), (550, 17153),

Gene: R4_19 Start: 15046, Stop: 15903, Start Num: 63

Candidate Starts for R4_19:

(Start: 63 @15046 has 55 MA's), (99, 15100), (124, 15136), (218, 15304), (378, 15544), (472, 15742), (542, 15892), (544, 15895),

Gene: Rabbs_17 Start: 15479, Stop: 16657, Start Num: 25

Candidate Starts for Rabbs_17:

(4, 15083), (7, 15143), (Start: 25 @15479 has 250 MA's), (Start: 68 @15605 has 6 MA's), (Start: 79 @15623 has 5 MA's), (113, 15668), (116, 15674), (152, 15737), (171, 15773), (210, 15842), (211, 15845), (217, 15866), (247, 15920), (292, 15995), (351, 16097), (358, 16109), (425, 16304), (443, 16334), (451, 16352), (461, 16376), (497, 16478), (505, 16496), (541, 16586), (547, 16619),

Gene: Rachella_30 Start: 17789, Stop: 18679, Start Num: 60

Candidate Starts for Rachella_30:

(Start: 60 @17789 has 92 MA's), (254, 18113), (270, 18137), (284, 18170), (381, 18326), (408, 18392), (464, 18500), (521, 18620), (544, 18671), (545, 18674),

Gene: Ramen_22 Start: 16017, Stop: 17153, Start Num: 25

Candidate Starts for Ramen_22:

(Start: 25 @16017 has 250 MA's), (Start: 68 @16134 has 6 MA's), (130, 16224), (141, 16245), (154, 16266), (168, 16293), (302, 16548), (352, 16629), (385, 16704), (392, 16719), (443, 16830), (461,

16872), (493, 16965), (503, 16989), (541, 17082), (549, 17121), (550, 17139),

Gene: Rana_19 Start: 14967, Stop: 15824, Start Num: 60

Candidate Starts for Rana_19:

(Start: 60 @14967 has 92 MA's), (Start: 112 @15039 has 1 MA's), (142, 15087), (162, 15120), (218, 15225), (245, 15252), (284, 15315), (304, 15357), (374, 15456), (376, 15459), (378, 15465), (408, 15537), (436, 15594), (466, 15651), (471, 15660), (542, 15813), (544, 15816),

Gene: Rando14_20 Start: 14989, Stop: 16119, Start Num: 28

Candidate Starts for Rando14_20:

(Start: 28 @14989 has 36 MA's), (Start: 79 @15118 has 5 MA's), (113, 15163), (152, 15229), (154, 15232), (168, 15259), (217, 15358), (275, 15460), (302, 15514), (323, 15544), (345, 15580), (351, 15592), (372, 15643), (383, 15667), (397, 15700), (411, 15748), (427, 15772), (443, 15796), (444, 15799), (461, 15838), (541, 16048), (549, 16087), (550, 16105),

Gene: Rapunzel97_22 Start: 16018, Stop: 17154, Start Num: 25

Candidate Starts for Rapunzel97_22:

(Start: 25 @16018 has 250 MA's), (Start: 68 @16135 has 6 MA's), (130, 16225), (141, 16246), (154, 16267), (168, 16294), (302, 16549), (352, 16630), (385, 16705), (392, 16720), (443, 16831), (461, 16873), (493, 16966), (503, 16990), (541, 17083), (549, 17122), (550, 17140),

Gene: Raqqa_18 Start: 14740, Stop: 15720, Start Num: 51

Candidate Starts for Raqqa_18:

(Start: 51 @14740 has 3 MA's), (140, 14869), (152, 14887), (159, 14899), (181, 14941), (190, 14959), (211, 14998), (213, 15004), (230, 15034), (267, 15097), (343, 15241), (358, 15268), (370, 15304), (408, 15403), (424, 15433), (429, 15445), (438, 15466), (456, 15496), (468, 15529), (483, 15556), (499, 15598), (515, 15649), (521, 15661),

Gene: Rasovi_20 Start: 15518, Stop: 16411, Start Num: 69

Candidate Starts for Rasovi_20:

(Start: 69 @15518 has 33 MA's), (133, 15611), (138, 15620), (182, 15698), (209, 15749), (274, 15863), (275, 15866), (276, 15872), (304, 15932), (425, 16154), (426, 16157), (463, 16226), (471, 16247), (472, 16250), (503, 16310), (531, 16376),

Gene: Rattrick_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Rattrick_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: RavenCo17_16 Start: 14717, Stop: 15550, Start Num: 109

Candidate Starts for RavenCo17_16:

(Start: 109 @14717 has 2 MA's), (144, 14759), (207, 14867), (237, 14933), (308, 15053), (355, 15131), (447, 15326), (463, 15359), (512, 15470),

Gene: Raya_17 Start: 12133, Stop: 13044, Start Num: 100

Candidate Starts for Raya_17:

(Start: 51 @12061 has 3 MA's), (75, 12091), (95, 12127), (Start: 100 @12133 has 5 MA's), (120, 12154), (144, 12196), (157, 12214), (172, 12241), (195, 12283), (207, 12304), (219, 12343), (230, 12352), (241, 12382), (259, 12403), (265, 12412), (278, 12442), (285, 12457), (302, 12493), (325, 12529), (343, 12562), (345, 12565), (375, 12628), (393, 12652), (399, 12667), (438, 12763), (454,

12796), (467, 12832), (473, 12847), (478, 12856), (483, 12880), (485, 12889), (521, 12985),

Gene: RedBear_21 Start: 15234, Stop: 16091, Start Num: 60

Candidate Starts for RedBear_21:

(Start: 60 @15234 has 92 MA's), (Start: 112 @15306 has 1 MA's), (124, 15324), (218, 15492), (245, 15519), (304, 15624), (378, 15732), (381, 15738), (408, 15804), (471, 15927), (542, 16080), (544, 16083),

Gene: RedRaider_47 Start: 31794, Stop: 32711, Start Num: 81

Candidate Starts for RedRaider_47:

(Start: 81 @31794 has 28 MA's), (137, 31872), (178, 31947), (247, 32055), (297, 32139), (395, 32319), (397, 32325), (476, 32541), (493, 32580), (515, 32643), (521, 32655), (531, 32676), (540, 32697),

Gene: Remy19_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Remy19_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Renaissance_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Renaissance_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Reptar3000_23 Start: 17233, Stop: 18366, Start Num: 25

Candidate Starts for Reptar3000_23:

(Start: 25 @17233 has 250 MA's), (32, 17251), (49, 17323), (Start: 68 @17353 has 6 MA's), (130, 17443), (134, 17452), (154, 17485), (166, 17509), (218, 17614), (302, 17767), (348, 17836), (351, 17842), (411, 17995), (425, 18013), (443, 18043), (461, 18085), (462, 18088), (541, 18295), (549, 18334), (550, 18352),

Gene: Richarlison_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Richarlison_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Richo_22 Start: 15375, Stop: 16514, Start Num: 25

Candidate Starts for Richo_22:

(Start: 25 @15375 has 250 MA's), (Start: 68 @15495 has 6 MA's), (130, 15585), (168, 15654), (217, 15753), (218, 15756), (275, 15855), (302, 15909), (352, 15990), (385, 16065), (392, 16080), (427, 16167), (443, 16191), (461, 16233), (462, 16236), (481, 16287), (493, 16326), (526, 16410), (535, 16428), (541, 16443), (549, 16482), (550, 16500),

Gene: Rie18_30 Start: 17302, Stop: 18192, Start Num: 60

Candidate Starts for Rie18_30:

(Start: 60 @17302 has 92 MA's), (254, 17626), (270, 17650), (381, 17839), (399, 17872), (464, 18013), (507, 18103), (521, 18133), (544, 18184), (545, 18187),

Gene: RikSengupta_31 Start: 17701, Stop: 18585, Start Num: 62

Candidate Starts for RikSengupta_31:

(29, 17602), (Start: 62 @17701 has 21 MA's), (126, 17797), (138, 17818), (185, 17902), (187, 17908), (274, 18049), (408, 18298), (424, 18328), (464, 18406), (470, 18418), (471, 18421), (480, 18439), (509, 18505), (513, 18508), (514, 18511), (544, 18577), (545, 18580),

Gene: Rileysaurus_15 Start: 11284, Stop: 12231, Start Num: 66

Candidate Starts for Rileysaurus_15:

(Start: 61 @11275 has 4 MA's), (Start: 63 @11278 has 55 MA's), (Start: 66 @11284 has 131 MA's), (Start: 83 @11317 has 6 MA's), (93, 11335), (95, 11338), (Start: 100 @11344 has 5 MA's), (Start: 118 @11368 has 1 MA's), (124, 11377), (140, 11407), (142, 11410), (143, 11413), (152, 11425), (157, 11434), (181, 11479), (200, 11509), (207, 11524), (209, 11530), (213, 11542), (238, 11608), (257, 11635), (261, 11644), (265, 11650), (277, 11677), (302, 11728), (317, 11752), (323, 11761), (358, 11824), (362, 11836), (383, 11878), (385, 11881), (387, 11884), (404, 11935), (408, 11950), (423, 11971), (426, 11986), (433, 12001), (436, 12007), (472, 12079), (473, 12082), (494, 12100), (496, 12103), (499, 12112), (515, 12160), (521, 12172), (524, 12181), (531, 12196), (534, 12202), (540, 12217),

Gene: Rizz_22 Start: 16864, Stop: 17706, Start Num: 106

Candidate Starts for Rizz_22:

(Start: 106 @16864 has 19 MA's), (Start: 115 @16873 has 37 MA's), (143, 16915), (163, 16948), (171, 16963), (201, 17011), (217, 17059), (223, 17074), (225, 17080), (262, 17119), (291, 17173), (311, 17212), (314, 17218), (338, 17254), (355, 17284), (361, 17293), (429, 17449), (512, 17626),

Gene: Rollins_16 Start: 11669, Stop: 12526, Start Num: 66

Candidate Starts for Rollins_16:

(Start: 66 @11669 has 131 MA's), (87, 11708), (114, 11744), (133, 11774), (140, 11786), (204, 11882), (245, 11954), (291, 12029), (301, 12050), (404, 12218), (459, 12329),

Gene: Rona_16 Start: 12807, Stop: 13661, Start Num: 66

Candidate Starts for Rona_16:

(Start: 66 @12807 has 131 MA's), (78, 12831), (89, 12852), (114, 12882), (133, 12912), (209, 13035), (242, 13086), (245, 13092), (388, 13314), (393, 13329), (399, 13335), (462, 13470), (509, 13581), (516, 13593), (544, 13653),

Gene: RootBeer_16 Start: 13240, Stop: 14184, Start Num: 58

Candidate Starts for RootBeer_16:

(37, 13192), (Start: 58 @13240 has 10 MA's), (161, 13408), (167, 13420), (181, 13447), (207, 13492), (230, 13558), (259, 13609), (273, 13633), (299, 13690), (312, 13714), (399, 13873), (496, 14056), (515, 14113),

Gene: Rooter_16 Start: 12775, Stop: 13614, Start Num: 100

Candidate Starts for Rooter_16:

(Start: 58 @12706 has 10 MA's), (Start: 100 @12775 has 5 MA's), (161, 12865), (181, 12904), (200, 12934), (207, 12949), (230, 12997), (278, 13087), (285, 13102), (302, 13138), (319, 13165), (323, 13171), (371, 13258), (399, 13303), (424, 13366), (426, 13372), (441, 13405), (454, 13432), (467, 13453), (492, 13477), (494, 13483), (499, 13495), (515, 13543), (518, 13549), (521, 13555),

Gene: Rootkit7_20 Start: 15338, Stop: 16231, Start Num: 69

Candidate Starts for Rootkit7_20:

(Start: 69 @15338 has 33 MA's), (133, 15431), (138, 15440), (182, 15518), (209, 15569), (235, 15629), (274, 15683), (275, 15686), (276, 15692), (425, 15974), (426, 15977), (463, 16046), (471, 16067), (472, 16070), (503, 16130), (531, 16196),

Gene: Rosmarinus_22 Start: 16039, Stop: 17175, Start Num: 25

Candidate Starts for Rosmarinus_22:

(Start: 25 @16039 has 250 MA's), (Start: 68 @16156 has 6 MA's), (130, 16246), (141, 16267), (154, 16288), (168, 16315), (302, 16570), (352, 16651), (385, 16726), (392, 16741), (443, 16852), (461, 16894), (493, 16987), (503, 17011), (541, 17104), (549, 17143), (550, 17161),

Gene: RunningOnE_73 Start: 40650, Stop: 41642, Start Num: 33

Candidate Starts for RunningOnE_73:

(Start: 33 @40650 has 5 MA's), (34, 40662), (48, 40713), (52, 40719), (Start: 66 @40740 has 131 MA's), (Start: 115 @40821 has 37 MA's), (Start: 118 @40824 has 1 MA's), (155, 40887), (180, 40935), (185, 40944), (216, 40998), (248, 41043), (280, 41094), (336, 41196), (363, 41244), (404, 41319), (518, 41580),

Gene: Ruriko_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Ruriko_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Rusticus_20 Start: 15156, Stop: 16013, Start Num: 60

Candidate Starts for Rusticus_20:

(Start: 60 @15156 has 92 MA's), (Start: 112 @15228 has 1 MA's), (124, 15246), (162, 15309), (218, 15414), (245, 15441), (274, 15477), (302, 15543), (331, 15588), (378, 15654), (381, 15660), (408, 15726), (427, 15765), (436, 15783), (466, 15840), (480, 15867), (542, 16002), (544, 16005),

Gene: Ruthiejr_22 Start: 17121, Stop: 18254, Start Num: 25

Candidate Starts for Ruthiejr_22:

(Start: 25 @17121 has 250 MA's), (49, 17211), (Start: 68 @17241 has 6 MA's), (130, 17331), (154, 17373), (155, 17376), (162, 17388), (348, 17724), (351, 17730), (383, 17805), (411, 17883), (424, 17898), (443, 17931), (461, 17973), (462, 17976), (494, 18069), (541, 18183), (549, 18222), (550, 18240),

Gene: SBlackberry_20 Start: 15344, Stop: 16237, Start Num: 69

Candidate Starts for SBlackberry_20:

(Start: 69 @15344 has 33 MA's), (133, 15437), (138, 15446), (182, 15524), (209, 15575), (235, 15635), (274, 15689), (275, 15692), (276, 15698), (425, 15980), (426, 15983), (463, 16052), (471, 16073), (472, 16076), (503, 16136), (531, 16202),

Gene: SKKY_15 Start: 11329, Stop: 12270, Start Num: 66

Candidate Starts for SKKY_15:

(55, 11311), (Start: 66 @11329 has 131 MA's), (Start: 83 @11362 has 6 MA's), (Start: 86 @11368 has 9 MA's), (93, 11380), (Start: 118 @11407 has 1 MA's), (124, 11416), (140, 11446), (142, 11449), (143, 11452), (152, 11464), (157, 11473), (165, 11488), (181, 11518), (200, 11548), (207, 11563), (211, 11575), (213, 11581), (220, 11605), (230, 11629), (238, 11647), (261, 11683), (265, 11689), (277, 11716), (278, 11719), (290, 11740), (302, 11767), (317, 11791), (323, 11800), (358, 11863), (383, 11917), (385, 11920), (391, 11935), (404, 11974), (408, 11989), (423, 12010), (426, 12025), (433, 12040), (436, 12046), (472, 12118), (473, 12121), (494, 12139), (496, 12142), (499, 12151), (515,

12199), (521, 12211), (524, 12220), (531, 12235), (534, 12241), (540, 12256),

Gene: SafetyGuy_30 Start: 17792, Stop: 18682, Start Num: 60

Candidate Starts for SafetyGuy_30:

(Start: 60 @17792 has 92 MA's), (254, 18116), (270, 18140), (284, 18173), (381, 18329), (464, 18503), (521, 18623), (544, 18674), (545, 18677),

Gene: Saftant_19 Start: 15950, Stop: 16807, Start Num: 62

Candidate Starts for Saftant_19:

(Start: 62 @15950 has 21 MA's), (Start: 71 @15965 has 6 MA's), (84, 15986), (Start: 112 @16022 has 1 MA's), (124, 16040), (138, 16064), (162, 16103), (274, 16271), (361, 16430), (374, 16439), (376, 16442), (378, 16448), (408, 16520), (437, 16580), (463, 16622), (471, 16643), (531, 16772), (542, 16796), (544, 16799),

Gene: Sahara_16 Start: 13936, Stop: 14784, Start Num: 107

Candidate Starts for Sahara_16:

(Start: 107 @13936 has 33 MA's), (Start: 115 @13945 has 37 MA's), (163, 14020), (166, 14026), (207, 14098), (212, 14113), (217, 14131), (237, 14164), (266, 14197), (308, 14284), (311, 14287), (316, 14296), (324, 14308), (333, 14323), (463, 14593), (531, 14749), (534, 14755),

Gene: Salvus_21 Start: 15192, Stop: 16304, Start Num: 27

Candidate Starts for Salvus_21:

(Start: 27 @15192 has 5 MA's), (35, 15240), (Start: 106 @15348 has 19 MA's), (113, 15357), (155, 15426), (170, 15453), (243, 15600), (304, 15708), (351, 15783), (356, 15792), (369, 15828), (399, 15897), (411, 15939), (443, 15984), (446, 15993), (470, 16050), (487, 16101), (510, 16161), (547, 16266),

Gene: SamScheppers_21 Start: 17028, Stop: 18161, Start Num: 25

Candidate Starts for SamScheppers_21:

(Start: 25 @17028 has 250 MA's), (32, 17046), (49, 17118), (Start: 68 @17148 has 6 MA's), (130, 17238), (154, 17280), (166, 17304), (218, 17409), (302, 17562), (348, 17631), (351, 17637), (411, 17790), (425, 17808), (443, 17838), (461, 17880), (462, 17883), (535, 18075), (541, 18090), (549, 18129), (550, 18147),

Gene: Samba_18 Start: 15871, Stop: 16731, Start Num: 70

Candidate Starts for Samba_18:

(Start: 70 @15871 has 24 MA's), (174, 16027), (215, 16108), (261, 16165), (267, 16174), (286, 16207), (352, 16315), (397, 16399), (425, 16465), (427, 16471), (492, 16600), (509, 16642),

Gene: Samman98_19 Start: 16504, Stop: 17340, Start Num: 106

Candidate Starts for Samman98_19:

(Start: 106 @16504 has 19 MA's), (Start: 115 @16513 has 37 MA's), (143, 16555), (163, 16588), (171, 16603), (201, 16651), (223, 16714), (225, 16720), (262, 16759), (291, 16813), (311, 16852), (314, 16858), (338, 16894), (355, 16924), (361, 16933), (429, 17083), (512, 17260),

Gene: SamuelLPlaqson_22 Start: 15965, Stop: 17101, Start Num: 25

Candidate Starts for SamuelLPlaqson_22:

(Start: 25 @15965 has 250 MA's), (Start: 68 @16082 has 6 MA's), (130, 16172), (141, 16193), (154, 16214), (168, 16241), (275, 16442), (302, 16496), (305, 16502), (352, 16577), (385, 16652), (392, 16667), (461, 16820), (493, 16913), (503, 16937), (541, 17030), (549, 17069), (550, 17087),

Gene: SanaSana_18 Start: 13004, Stop: 13858, Start Num: 66

Candidate Starts for SanaSana_18:

(Start: 66 @13004 has 131 MA's), (89, 13049), (114, 13079), (133, 13109), (204, 13217), (209, 13232), (245, 13289), (301, 13385), (304, 13394), (328, 13427), (399, 13532), (401, 13541), (404, 13550), (437, 13625), (456, 13649), (509, 13778), (516, 13790), (544, 13850),

Gene: SansAfet_17 Start: 13052, Stop: 13906, Start Num: 66

Candidate Starts for SansAfet_17:

(Start: 66 @13052 has 131 MA's), (114, 13127), (133, 13157), (138, 13166), (204, 13265), (209, 13280), (245, 13337), (301, 13433), (304, 13442), (328, 13475), (388, 13559), (454, 13694), (456, 13697), (516, 13838), (544, 13898),

Gene: Sapo_15 Start: 13755, Stop: 14621, Start Num: 71

Candidate Starts for Sapo_15:

(Start: 71 @13755 has 6 MA's), (Start: 100 @13791 has 5 MA's), (128, 13827), (219, 13995), (220, 13998), (301, 14118), (320, 14148), (352, 14196), (354, 14199), (356, 14202), (365, 14226), (399, 14286), (443, 14373), (516, 14553),

Gene: SarBear_17 Start: 13097, Stop: 13951, Start Num: 66

Candidate Starts for SarBear_17:

(Start: 66 @13097 has 131 MA's), (114, 13172), (133, 13202), (138, 13211), (204, 13310), (209, 13325), (245, 13382), (301, 13478), (304, 13487), (328, 13520), (388, 13604), (393, 13619), (399, 13625), (509, 13871), (516, 13883), (544, 13943),

Gene: SarahRose_19 Start: 14966, Stop: 15823, Start Num: 60

Candidate Starts for SarahRose_19:

(Start: 60 @14966 has 92 MA's), (Start: 112 @15038 has 1 MA's), (124, 15056), (218, 15224), (245, 15251), (361, 15446), (378, 15464), (381, 15470), (405, 15524), (463, 15638), (471, 15659), (542, 15812), (544, 15815),

Gene: Sarge_17 Start: 13073, Stop: 13981, Start Num: 58

Candidate Starts for Sarge_17:

(Start: 58 @13073 has 10 MA's), (Start: 100 @13142 has 5 MA's), (140, 13199), (161, 13232), (181, 13271), (200, 13301), (207, 13316), (230, 13364), (278, 13454), (285, 13469), (302, 13505), (319, 13532), (323, 13538), (371, 13625), (399, 13670), (424, 13733), (426, 13739), (441, 13772), (454, 13799), (467, 13820), (492, 13844), (494, 13850), (499, 13862), (515, 13910), (518, 13916), (521, 13922),

Gene: Savage_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for Savage_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: Scarlett_21 Start: 15263, Stop: 16399, Start Num: 25

Candidate Starts for Scarlett_21:

(Start: 25 @15263 has 250 MA's), (Start: 68 @15380 has 6 MA's), (Start: 79 @15398 has 5 MA's), (141, 15491), (168, 15539), (275, 15740), (302, 15794), (332, 15839), (345, 15860), (368, 15914), (383, 15947), (392, 15965), (461, 16118), (462, 16121), (481, 16172), (493, 16211), (541, 16328), (549, 16367), (550, 16385),

Gene: Schiebel_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Schiebel_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217,

15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Schmidt_19 Start: 13858, Stop: 14700, Start Num: 96

Candidate Starts for Schmidt_19:

(Start: 94 @13855 has 6 MA's), (Start: 96 @13858 has 5 MA's), (Start: 110 @13873 has 2 MA's), (116, 13879), (152, 13939), (154, 13942), (214, 14056), (217, 14068), (219, 14074), (235, 14101), (305, 14221), (343, 14272), (352, 14290), (377, 14350), (399, 14377), (408, 14410), (473, 14533), (510, 14614), (529, 14659), (533, 14668),

Gene: ScoobySnack_21 Start: 13694, Stop: 14554, Start Num: 69

Candidate Starts for ScoobySnack_21:

(Start: 69 @13694 has 33 MA's), (89, 13730), (Start: 92 @13733 has 1 MA's), (Start: 112 @13754 has 1 MA's), (Start: 115 @13760 has 37 MA's), (124, 13772), (131, 13781), (133, 13787), (171, 13853), (185, 13880), (209, 13910), (219, 13943), (275, 14009), (376, 14186), (378, 14192), (393, 14225), (408, 14264), (427, 14303), (515, 14483), (531, 14519), (540, 14540), (542, 14543),

Gene: Scuba_49 Start: 29835, Stop: 30755, Start Num: 81

Candidate Starts for Scuba_49:

(Start: 81 @29835 has 28 MA's), (137, 29916), (178, 29991), (209, 30042), (282, 30156), (395, 30363), (493, 30624), (515, 30687), (531, 30720),

Gene: Sekhmet_19 Start: 16864, Stop: 17700, Start Num: 106

Candidate Starts for Sekhmet_19:

(Start: 106 @16864 has 19 MA's), (Start: 115 @16873 has 37 MA's), (143, 16915), (163, 16948), (171, 16963), (201, 17011), (217, 17059), (223, 17074), (225, 17080), (262, 17119), (291, 17173), (311, 17212), (314, 17218), (338, 17254), (355, 17284), (361, 17293), (429, 17443), (472, 17533), (512, 17620),

Gene: SgtBeansprout_18 Start: 15554, Stop: 16696, Start Num: 25

Candidate Starts for SgtBeansprout_18:

(Start: 25 @15554 has 250 MA's), (Start: 68 @15677 has 6 MA's), (130, 15767), (168, 15836), (217, 15935), (218, 15938), (275, 16037), (352, 16172), (443, 16373), (461, 16415), (462, 16418), (493, 16508), (503, 16532), (541, 16625), (549, 16664), (550, 16682),

Gene: ShaboiShabazz_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for ShaboiShabazz_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Shadow1_20 Start: 15075, Stop: 16214, Start Num: 25

Candidate Starts for Shadow1_20:

(Start: 25 @15075 has 250 MA's), (Start: 68 @15195 has 6 MA's), (130, 15285), (168, 15354), (275, 15555), (352, 15690), (354, 15693), (383, 15762), (392, 15780), (410, 15840), (425, 15861), (443, 15891), (461, 15933), (462, 15936), (463, 15939), (493, 16026), (503, 16050), (535, 16128), (541, 16143), (549, 16182), (550, 16200),

Gene: Shaobing_22 Start: 15375, Stop: 16514, Start Num: 25

Candidate Starts for Shaobing_22:

(Start: 25 @15375 has 250 MA's), (Start: 68 @15495 has 6 MA's), (130, 15585), (168, 15654), (217, 15753), (218, 15756), (275, 15855), (302, 15909), (352, 15990), (385, 16065), (392, 16080), (427, 16167), (443, 16191), (461, 16233), (462, 16236), (481, 16287), (493, 16326), (526, 16410), (535, 16428), (541, 16443), (549, 16482), (550, 16500),

Gene: Sharkboy_16 Start: 12806, Stop: 13660, Start Num: 66

Candidate Starts for Sharkboy_16:

(Start: 66 @12806 has 131 MA's), (78, 12830), (89, 12851), (114, 12881), (133, 12911), (209, 13034), (242, 13085), (245, 13091), (388, 13313), (393, 13328), (399, 13334), (462, 13469), (509, 13580), (516, 13592), (544, 13652),

Gene: Shayna_16 Start: 12861, Stop: 13715, Start Num: 67

Candidate Starts for Shayna_16:

(Start: 67 @12861 has 11 MA's), (133, 12960), (185, 13053), (216, 13107), (340, 13296), (381, 13353), (393, 13380), (472, 13548), (480, 13563), (516, 13647), (542, 13704), (544, 13707),

Gene: ShedlockHolmes_21 Start: 16440, Stop: 17576, Start Num: 25

Candidate Starts for ShedlockHolmes_21:

(Start: 25 @16440 has 250 MA's), (Start: 68 @16563 has 6 MA's), (113, 16626), (116, 16632), (134, 16662), (211, 16800), (217, 16821), (219, 16827), (253, 16884), (275, 16923), (292, 16953), (345, 17040), (362, 17076), (425, 17223), (443, 17253), (446, 17262), (461, 17295), (462, 17298), (463, 17301), (493, 17388), (528, 17475), (547, 17538), (549, 17544),

Gene: ShiaSurprise_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for ShiaSurprise_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Shlim410_19 Start: 17069, Stop: 17905, Start Num: 106

Candidate Starts for Shlim410_19:

(Start: 106 @17069 has 19 MA's), (Start: 115 @17078 has 37 MA's), (143, 17120), (163, 17153), (171, 17168), (201, 17216), (223, 17279), (225, 17285), (262, 17324), (291, 17378), (298, 17393), (311, 17417), (314, 17423), (338, 17459), (355, 17489), (361, 17498), (429, 17648), (472, 17738), (512, 17825),

Gene: Shoya_16 Start: 12709, Stop: 13617, Start Num: 58

Candidate Starts for Shoya_16:

(Start: 58 @12709 has 10 MA's), (Start: 100 @12778 has 5 MA's), (161, 12868), (181, 12907), (200, 12937), (207, 12952), (230, 13000), (278, 13090), (285, 13105), (302, 13141), (319, 13168), (323, 13174), (371, 13261), (399, 13306), (424, 13369), (426, 13375), (441, 13408), (454, 13435), (467, 13456), (492, 13480), (494, 13486), (499, 13498), (515, 13546), (518, 13552), (521, 13558),

Gene: Sidious_18 Start: 16465, Stop: 17292, Start Num: 115

Candidate Starts for Sidious_18:

(Start: 115 @16465 has 37 MA's), (221, 16660), (223, 16666), (235, 16681), (252, 16702), (279, 16744), (289, 16762), (314, 16810), (338, 16846), (342, 16855), (399, 16960), (429, 17035), (500, 17179), (512, 17212), (529, 17251),

Gene: SilentWarrior_29 Start: 16956, Stop: 17846, Start Num: 60

Candidate Starts for SilentWarrior_29:

(Start: 60 @16956 has 92 MA's), (207, 17184), (215, 17211), (254, 17280), (270, 17304), (284, 17337), (399, 17526), (408, 17559), (436, 17616), (464, 17667), (507, 17757), (521, 17787), (544, 17838),

(545, 17841),

Gene: SirBeanington_17 Start: 13139, Stop: 13993, Start Num: 66

Candidate Starts for SirBeanington_17:

(Start: 66 @13139 has 131 MA's), (114, 13214), (133, 13244), (138, 13253), (204, 13352), (245, 13424), (301, 13520), (304, 13529), (328, 13562), (388, 13646), (393, 13661), (509, 13913), (516, 13925), (544, 13985),

Gene: SirPhilip_21 Start: 14868, Stop: 16001, Start Num: 25

Candidate Starts for SirPhilip_21:

(Start: 25 @14868 has 250 MA's), (Start: 68 @14985 has 6 MA's), (141, 15096), (168, 15144), (218, 15246), (219, 15249), (275, 15345), (302, 15399), (345, 15462), (351, 15474), (383, 15549), (392, 15567), (411, 15630), (427, 15654), (444, 15681), (461, 15720), (462, 15723), (493, 15813), (528, 15900), (541, 15930), (546, 15957), (549, 15969), (550, 15987),

Gene: Sixama_98 Start: 58478, Stop: 59413, Start Num: 71

Candidate Starts for Sixama_98:

(Start: 71 @58478 has 6 MA's), (88, 58493), (98, 58505), (155, 58601), (156, 58604), (168, 58625), (322, 58883), (345, 58913), (354, 58931), (359, 58940), (430, 59126), (450, 59168), (473, 59240), (479, 59243), (480, 59246), (487, 59273), (494, 59291), (503, 59312), (514, 59336), (534, 59381),

Gene: Sizemore_17 Start: 15478, Stop: 16650, Start Num: 25

Candidate Starts for Sizemore_17:

(7, 15145), (Start: 25 @15478 has 250 MA's), (Start: 68 @15598 has 6 MA's), (Start: 79 @15616 has 5 MA's), (113, 15661), (116, 15667), (152, 15730), (171, 15766), (210, 15835), (211, 15838), (217, 15859), (247, 15913), (275, 15958), (292, 15988), (351, 16090), (358, 16102), (362, 16114), (368, 16132), (425, 16297), (443, 16327), (451, 16345), (461, 16369), (505, 16489), (541, 16579), (547, 16612),

Gene: Skitty_17 Start: 12921, Stop: 13763, Start Num: 100

Candidate Starts for Skitty_17:

(Start: 58 @12852 has 10 MA's), (Start: 100 @12921 has 5 MA's), (122, 12948), (152, 12999), (157, 13008), (161, 13014), (172, 13035), (200, 13083), (207, 13098), (265, 13206), (278, 13236), (285, 13251), (299, 13278), (302, 13287), (319, 13314), (371, 13407), (393, 13437), (399, 13452), (406, 13476), (408, 13485), (429, 13527), (441, 13554), (467, 13602), (515, 13692), (518, 13698), (521, 13704),

Gene: Skyerus_17 Start: 12133, Stop: 13044, Start Num: 100

Candidate Starts for Skyerus_17:

(Start: 51 @12061 has 3 MA's), (75, 12091), (95, 12127), (Start: 100 @12133 has 5 MA's), (120, 12154), (144, 12196), (157, 12214), (172, 12241), (195, 12283), (207, 12304), (219, 12343), (230, 12352), (241, 12382), (259, 12403), (265, 12412), (278, 12442), (285, 12457), (302, 12493), (325, 12529), (343, 12562), (345, 12565), (375, 12628), (393, 12652), (399, 12667), (438, 12763), (454, 12796), (467, 12832), (473, 12847), (478, 12856), (483, 12880), (485, 12889), (521, 12985),

Gene: Skylord_16 Start: 11609, Stop: 12466, Start Num: 66

Candidate Starts for Skylord_16:

(Start: 66 @11609 has 131 MA's), (87, 11648), (114, 11684), (133, 11714), (140, 11726), (204, 11822), (245, 11894), (291, 11969), (301, 11990), (404, 12158), (459, 12269), (518, 12401),

Gene: Skysand_42 Start: 29992, Stop: 30909, Start Num: 81

Candidate Starts for Skysand_42:

(Start: 81 @29992 has 28 MA's), (137, 30070), (178, 30145), (247, 30253), (297, 30337), (395, 30517), (397, 30523), (476, 30739), (493, 30778), (521, 30853), (527, 30865), (531, 30874), (540, 30895),

Gene: Slarp_23 Start: 17500, Stop: 18633, Start Num: 25

Candidate Starts for Slarp_23:

(Start: 25 @17500 has 250 MA's), (32, 17518), (49, 17590), (Start: 68 @17620 has 6 MA's), (130, 17710), (154, 17752), (166, 17776), (218, 17881), (302, 18034), (348, 18103), (351, 18109), (411, 18262), (425, 18280), (443, 18310), (461, 18352), (462, 18355), (541, 18562), (549, 18601), (550, 18619),

Gene: Slay_17 Start: 13639, Stop: 14493, Start Num: 66

Candidate Starts for Slay_17:

(Start: 66 @13639 has 131 MA's), (114, 13714), (133, 13744), (138, 13753), (204, 13852), (209, 13867), (245, 13924), (301, 14020), (304, 14029), (328, 14062), (388, 14146), (393, 14161), (399, 14167), (509, 14413), (516, 14425), (544, 14485),

Gene: Slimphazie_22 Start: 16018, Stop: 17154, Start Num: 25

Candidate Starts for Slimphazie_22:

(Start: 25 @16018 has 250 MA's), (Start: 68 @16135 has 6 MA's), (130, 16225), (141, 16246), (154, 16267), (168, 16294), (302, 16549), (352, 16630), (385, 16705), (392, 16720), (443, 16831), (461, 16873), (493, 16966), (503, 16990), (541, 17083), (549, 17122), (550, 17140),

Gene: Smoothie_48 Start: 28706, Stop: 29593, Start Num: 70

Candidate Starts for Smoothie_48:

(Start: 70 @28706 has 24 MA's), (Start: 74 @28712 has 13 MA's), (Start: 110 @28760 has 2 MA's), (130, 28787), (170, 28859), (208, 28925), (217, 28955), (293, 29063), (351, 29156), (362, 29180), (367, 29195), (411, 29291), (443, 29339), (514, 29519), (530, 29555),

Gene: Snakehole_30 Start: 17045, Stop: 17935, Start Num: 60

Candidate Starts for Snakehole_30:

(Start: 60 @17045 has 92 MA's), (207, 17273), (215, 17300), (254, 17369), (270, 17393), (284, 17426), (381, 17582), (399, 17615), (408, 17648), (436, 17705), (464, 17756), (507, 17846), (521, 17876), (544, 17927), (545, 17930),

Gene: Sneeze_17 Start: 15478, Stop: 16656, Start Num: 25

Candidate Starts for Sneeze_17:

(4, 15082), (7, 15142), (Start: 25 @15478 has 250 MA's), (Start: 68 @15604 has 6 MA's), (Start: 79 @15622 has 5 MA's), (113, 15667), (116, 15673), (152, 15736), (171, 15772), (210, 15841), (211, 15844), (217, 15865), (247, 15919), (292, 15994), (351, 16096), (358, 16108), (425, 16303), (443, 16333), (451, 16351), (461, 16375), (497, 16477), (505, 16495), (541, 16585), (547, 16618),

Gene: Snorlax_19 Start: 14969, Stop: 15826, Start Num: 60

Candidate Starts for Snorlax_19:

(Start: 60 @14969 has 92 MA's), (Start: 112 @15041 has 1 MA's), (124, 15059), (218, 15227), (245, 15254), (378, 15467), (381, 15473), (408, 15539), (436, 15596), (463, 15641), (471, 15662), (542, 15815), (544, 15818),

Gene: SoSeph_20 Start: 16471, Stop: 17601, Start Num: 28

Candidate Starts for SoSeph_20:

(Start: 28 @16471 has 36 MA's), (113, 16645), (152, 16711), (154, 16714), (168, 16741), (217, 16840), (275, 16942), (302, 16996), (323, 17026), (345, 17062), (346, 17065), (351, 17074), (383, 17149), (385, 17152), (399, 17188), (411, 17230), (425, 17248), (427, 17254), (443, 17278), (444, 17281), (446, 17287), (461, 17320), (541, 17530), (549, 17569), (550, 17587),

Gene: Softsoap_16 Start: 12873, Stop: 13727, Start Num: 66

Candidate Starts for Softsoap_16:

(Start: 66 @12873 has 131 MA's), (114, 12948), (133, 12978), (138, 12987), (204, 13086), (209, 13101), (245, 13158), (301, 13254), (304, 13263), (328, 13296), (388, 13380), (393, 13395), (509, 13647), (516, 13659), (544, 13719),

Gene: SoilAssassin_16 Start: 13903, Stop: 14751, Start Num: 107

Candidate Starts for SoilAssassin_16:

(Start: 107 @13903 has 33 MA's), (114, 13909), (196, 14044), (237, 14131), (266, 14164), (308, 14251), (311, 14254), (324, 14275), (338, 14299), (355, 14332), (459, 14554), (463, 14560), (534, 14722),

Gene: Soilmate_18 Start: 15754, Stop: 16620, Start Num: 68

Candidate Starts for Soilmate_18:

(Start: 68 @15754 has 6 MA's), (Start: 72 @15760 has 26 MA's), (174, 15916), (215, 15997), (286, 16096), (352, 16204), (397, 16288), (425, 16354), (427, 16360), (492, 16489), (509, 16531),

Gene: Solea_19 Start: 13530, Stop: 14384, Start Num: 66

Candidate Starts for Solea_19:

(Start: 66 @13530 has 131 MA's), (114, 13605), (133, 13635), (138, 13644), (204, 13743), (209, 13758), (245, 13815), (301, 13911), (304, 13920), (328, 13953), (388, 14037), (399, 14058), (456, 14175), (458, 14184), (508, 14301), (516, 14316), (544, 14376),

Gene: Solid_15 Start: 11283, Stop: 12224, Start Num: 66

Candidate Starts for Solid_15:

(Start: 57 @11268 has 1 MA's), (Start: 61 @11274 has 4 MA's), (Start: 63 @11277 has 55 MA's), (Start: 66 @11283 has 131 MA's), (Start: 83 @11316 has 6 MA's), (Start: 86 @11322 has 9 MA's), (90, 11331), (93, 11334), (Start: 118 @11361 has 1 MA's), (124, 11370), (140, 11400), (142, 11403), (143, 11406), (152, 11418), (157, 11427), (161, 11433), (181, 11472), (200, 11502), (207, 11517), (211, 11529), (212, 11532), (213, 11535), (230, 11583), (238, 11601), (261, 11637), (265, 11643), (277, 11670), (278, 11673), (290, 11694), (302, 11721), (317, 11745), (323, 11754), (362, 11829), (383, 11871), (385, 11874), (387, 11877), (391, 11889), (404, 11928), (408, 11943), (423, 11964), (426, 11979), (433, 11994), (436, 12000), (444, 12018), (472, 12072), (473, 12075), (494, 12093), (496, 12096), (515, 12153), (521, 12165), (524, 12174), (531, 12189), (534, 12195), (540, 12210),

Gene: South40_20 Start: 15234, Stop: 16091, Start Num: 60

Candidate Starts for South40_20:

(Start: 60 @15234 has 92 MA's), (Start: 112 @15306 has 1 MA's), (124, 15324), (218, 15492), (245, 15519), (304, 15624), (378, 15732), (381, 15738), (408, 15804), (471, 15927), (542, 16080), (544, 16083),

Gene: Sparcetus_31 Start: 17580, Stop: 18464, Start Num: 62

Candidate Starts for Sparcetus_31:

(29, 17481), (Start: 62 @17580 has 21 MA's), (105, 17646), (126, 17676), (138, 17697), (185, 17781), (187, 17787), (274, 17928), (374, 18096), (408, 18177), (424, 18207), (464, 18285), (470, 18297), (471, 18300), (480, 18318), (509, 18384), (513, 18387), (514, 18390), (544, 18456), (545, 18459),

Gene: SpeedDemon_310 Start: 28038, Stop: 28922, Start Num: 70

Candidate Starts for SpeedDemon_310:

(Start: 70 @28038 has 24 MA's), (Start: 85 @28059 has 1 MA's), (130, 28113), (170, 28185), (174, 28194), (246, 28314), (281, 28365), (286, 28374), (302, 28410), (351, 28482), (354, 28488), (411, 28617), (443, 28665), (475, 28740), (492, 28788),

Gene: Speedwell_24 Start: 17695, Stop: 18552, Start Num: 62

Candidate Starts for Speedwell_24:

(12, 17407), (Start: 62 @17695 has 21 MA's), (Start: 71 @17710 has 6 MA's), (84, 17731), (Start: 112 @17767 has 1 MA's), (218, 17953), (297, 18067), (333, 18130), (376, 18187), (378, 18193), (390, 18217), (463, 18367), (471, 18388), (531, 18517), (542, 18541), (544, 18544),

Gene: Splinter_21 Start: 15645, Stop: 16475, Start Num: 96

Candidate Starts for Splinter_21:

(Start: 94 @15642 has 6 MA's), (Start: 96 @15645 has 5 MA's), (116, 15660), (140, 15699), (152, 15720), (154, 15723), (224, 15867), (343, 16053), (373, 16122), (432, 16224), (472, 16305), (473, 16308), (510, 16389), (512, 16395), (516, 16407), (518, 16410), (529, 16434),

Gene: Spock_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Spock_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Spooks_61 Start: 39025, Stop: 40023, Start Num: 33

Candidate Starts for Spooks_61:

(Start: 33 @39025 has 5 MA's), (34, 39037), (Start: 69 @39118 has 33 MA's), (Start: 115 @39193 has 37 MA's), (133, 39220), (180, 39307), (209, 39346), (280, 39466), (315, 39535), (339, 39571), (378, 39631), (388, 39649), (389, 39652), (454, 39808), (472, 39859), (516, 39955),

Gene: Sproutie_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for Sproutie_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: SqueakyClean_20 Start: 14973, Stop: 15827, Start Num: 63

Candidate Starts for SqueakyClean_20:

(Start: 63 @14973 has 55 MA's), (162, 15126), (274, 15294), (374, 15459), (378, 15468), (411, 15549), (471, 15663), (542, 15816), (544, 15819),

Gene: Squirrel_16 Start: 13001, Stop: 13858, Start Num: 66

Candidate Starts for Squirrel_16:

(Start: 66 @13001 has 131 MA's), (133, 13103), (180, 13187), (185, 13196), (187, 13202), (209, 13226), (216, 13250), (219, 13259), (242, 13277), (301, 13379), (333, 13427), (340, 13439), (342, 13442), (349, 13451), (361, 13472), (393, 13523), (411, 13571), (508, 13775), (514, 13784),

Gene: StarStruck_41 Start: 29510, Stop: 30433, Start Num: 81

Candidate Starts for StarStruck_41:

(Start: 81 @29510 has 28 MA's), (137, 29597), (158, 29633), (178, 29672), (395, 30041), (443, 30185), (493, 30302), (531, 30398), (534, 30404), (540, 30419),

Gene: Stargaze_17 Start: 15800, Stop: 16978, Start Num: 25

Candidate Starts for Stargaze_17:

(Start: 25 @15800 has 250 MA's), (Start: 79 @15944 has 5 MA's), (116, 15995), (154, 16061), (155, 16064), (210, 16163), (211, 16166), (218, 16190), (243, 16235), (247, 16241), (358, 16430), (381, 16490), (417, 16598), (421, 16610), (443, 16655), (461, 16697), (524, 16871), (526, 16874), (535, 16892), (546, 16934), (547, 16940),

Gene: Stellammi_14 Start: 12723, Stop: 13808, Start Num: 57

Candidate Starts for Stellammi_14:

(45, 12708), (Start: 57 @12723 has 1 MA's), (127, 12831), (134, 12843), (152, 12873), (154, 12876), (166, 12900), (168, 12903), (178, 12924), (180, 12927), (215, 12996), (217, 13002), (253, 13080), (256, 13083), (286, 13137), (301, 13167), (305, 13179), (345, 13239), (351, 13251), (356, 13260), (387, 13332), (394, 13353), (395, 13356), (401, 13377), (403, 13383), (414, 13428), (450, 13503), (461, 13527), (462, 13530), (463, 13533), (472, 13560), (486, 13602), (487, 13605), (493, 13620), (498, 13632), (499, 13635), (508, 13659), (510, 13665), (535, 13722), (538, 13731), (541, 13737), (548, 13773), (550, 13794),

Gene: Stickynote_32 Start: 27883, Stop: 28749, Start Num: 66

Candidate Starts for Stickynote_32:

(Start: 66 @27883 has 131 MA's), (82, 27907), (Start: 118 @27952 has 1 MA's), (152, 28012), (173, 28051), (219, 28147), (327, 28309), (348, 28342), (395, 28417), (402, 28441), (454, 28516), (479, 28582), (493, 28618), (525, 28702),

Gene: Stinson_22 Start: 15984, Stop: 17120, Start Num: 25

Candidate Starts for Stinson_22:

(Start: 25 @15984 has 250 MA's), (Start: 68 @16101 has 6 MA's), (141, 16212), (154, 16233), (168, 16260), (218, 16362), (302, 16515), (352, 16596), (385, 16671), (392, 16686), (443, 16797), (461, 16839), (493, 16932), (503, 16956), (541, 17049), (549, 17088), (550, 17106),

Gene: Stoor_17 Start: 13001, Stop: 13855, Start Num: 66

Candidate Starts for Stoor_17:

(Start: 66 @13001 has 131 MA's), (89, 13046), (114, 13076), (133, 13106), (204, 13214), (209, 13229), (245, 13286), (301, 13382), (304, 13391), (328, 13424), (399, 13529), (401, 13538), (404, 13547), (437, 13622), (456, 13646), (509, 13775), (516, 13787), (544, 13847),

Gene: Stormborn_15 Start: 11299, Stop: 12246, Start Num: 66

Candidate Starts for Stormborn_15:

(Start: 61 @11290 has 4 MA's), (Start: 63 @11293 has 55 MA's), (Start: 66 @11299 has 131 MA's), (Start: 83 @11332 has 6 MA's), (93, 11350), (95, 11353), (Start: 100 @11359 has 5 MA's), (Start: 118 @11383 has 1 MA's), (124, 11392), (140, 11422), (142, 11425), (143, 11428), (152, 11440), (157, 11449), (161, 11455), (181, 11494), (200, 11524), (207, 11539), (209, 11545), (213, 11557), (230, 11605), (238, 11623), (261, 11659), (265, 11665), (277, 11692), (290, 11716), (302, 11743), (319, 11770), (323, 11776), (358, 11839), (362, 11851), (383, 11893), (385, 11896), (387, 11899), (404, 11950), (408, 11965), (411, 11974), (423, 11986), (426, 12001), (436, 12022), (472, 12094), (473, 12097), (494, 12115), (496, 12118), (515, 12175), (521, 12187), (524, 12196), (531, 12211), (534, 12217), (540, 12232),

Gene: Strobilo_18 Start: 13892, Stop: 15019, Start Num: 28

Candidate Starts for Strobilo_18:

(Start: 28 @13892 has 36 MA's), (32, 13901), (Start: 68 @14003 has 6 MA's), (130, 14093), (154, 14135), (155, 14138), (168, 14162), (217, 14261), (253, 14324), (275, 14363), (302, 14417), (345, 14483), (351, 14495), (372, 14546), (383, 14570), (411, 14648), (425, 14666), (443, 14696), (446, 14705), (461, 14738), (462, 14741), (503, 14855), (535, 14933), (541, 14948), (549, 14987), (550, 15005),

Gene: Stromboli_17 Start: 13132, Stop: 13986, Start Num: 66

Candidate Starts for Stromboli_17:

(Start: 66 @13132 has 131 MA's), (89, 13177), (114, 13207), (133, 13237), (204, 13345), (209, 13360), (245, 13417), (301, 13513), (304, 13522), (328, 13555), (399, 13660), (401, 13669), (404, 13678),

(429, 13735), (437, 13753), (456, 13777), (516, 13918), (544, 13978),

Gene: SuMoo_15 Start: 12068, Stop: 12934, Start Num: 63

Candidate Starts for SuMoo_15:

(Start: 63 @12068 has 55 MA's), (Start: 115 @12152 has 37 MA's), (135, 12182), (178, 12260), (185, 12272), (187, 12278), (218, 12332), (378, 12581), (482, 12794), (516, 12866),

Gene: Success_62 Start: 38159, Stop: 39157, Start Num: 33

Candidate Starts for Success_62:

(Start: 33 @38159 has 5 MA's), (34, 38171), (Start: 69 @38252 has 33 MA's), (Start: 115 @38327 has 37 MA's), (133, 38354), (180, 38441), (242, 38540), (280, 38600), (315, 38669), (339, 38705), (378, 38765), (388, 38783), (389, 38786), (454, 38942), (472, 38993), (516, 39089), (518, 39092),

Gene: Sucha_17 Start: 12846, Stop: 13667, Start Num: 92

Candidate Starts for Sucha_17:

(Start: 67 @12804 has 11 MA's), (Start: 92 @12846 has 1 MA's), (124, 12885), (133, 12900), (178, 12981), (182, 12987), (219, 13056), (274, 13122), (304, 13191), (310, 13200), (328, 13230), (340, 13248), (404, 13365), (454, 13458), (480, 13521), (514, 13593), (515, 13596), (529, 13626), (531, 13632), (540, 13653), (542, 13656),

Gene: Sudan_19 Start: 15667, Stop: 16524, Start Num: 62

Candidate Starts for Sudan_19:

(Start: 62 @15667 has 21 MA's), (84, 15703), (Start: 112 @15739 has 1 MA's), (138, 15781), (218, 15925), (245, 15952), (376, 16159), (378, 16165), (390, 16189), (463, 16339), (531, 16489), (542, 16513), (544, 16516),

Gene: Suerte_17 Start: 15987, Stop: 16814, Start Num: 115

Candidate Starts for Suerte_17:

(Start: 115 @15987 has 37 MA's), (163, 16062), (201, 16125), (210, 16149), (223, 16188), (225, 16194), (262, 16233), (279, 16266), (291, 16287), (306, 16320), (308, 16323), (311, 16326), (338, 16368), (355, 16398), (361, 16407), (399, 16482), (429, 16557), (472, 16647),

Gene: Sujidade_20 Start: 15274, Stop: 16131, Start Num: 60

Candidate Starts for Sujidade_20:

(Start: 60 @15274 has 92 MA's), (Start: 112 @15346 has 1 MA's), (124, 15364), (162, 15427), (218, 15532), (245, 15559), (304, 15664), (331, 15706), (378, 15772), (405, 15832), (408, 15844), (436, 15901), (463, 15946), (471, 15967), (542, 16120), (544, 16123),

Gene: Sukkupi_42 Start: 28532, Stop: 29452, Start Num: 86

Candidate Starts for Sukkupi_42:

(Start: 86 @28532 has 9 MA's), (137, 28613), (163, 28658), (205, 28727), (302, 28895), (356, 28979), (376, 29030), (397, 29063), (469, 29261), (476, 29279), (493, 29321), (529, 29411), (531, 29417), (540, 29438),

Gene: Sulley_22 Start: 15984, Stop: 17120, Start Num: 25

Candidate Starts for Sulley_22:

(Start: 25 @15984 has 250 MA's), (Start: 68 @16101 has 6 MA's), (130, 16191), (141, 16212), (154, 16233), (168, 16260), (302, 16515), (352, 16596), (385, 16671), (392, 16686), (443, 16797), (461, 16839), (493, 16932), (503, 16956), (541, 17049), (549, 17088), (550, 17106),

Gene: Sunflower1121_20 Start: 15087, Stop: 16226, Start Num: 25

Candidate Starts for Sunflower1121_20:

(Start: 25 @15087 has 250 MA's), (Start: 68 @15207 has 6 MA's), (130, 15297), (168, 15366), (275, 15567), (352, 15702), (354, 15705), (383, 15774), (392, 15792), (410, 15852), (425, 15873), (443, 15903), (461, 15945), (462, 15948), (463, 15951), (493, 16038), (503, 16062), (535, 16140), (541, 16155), (549, 16194), (550, 16212),

Gene: SunkenRoot_19 Start: 15962, Stop: 16819, Start Num: 62

Candidate Starts for SunkenRoot_19:

(Start: 62 @15962 has 21 MA's), (84, 15998), (Start: 112 @16034 has 1 MA's), (138, 16076), (218, 16220), (304, 16352), (376, 16454), (378, 16460), (463, 16634), (514, 16745), (531, 16784), (542, 16808), (544, 16811),

Gene: SunnyD_16 Start: 12861, Stop: 13715, Start Num: 67

Candidate Starts for SunnyD_16:

(Start: 67 @12861 has 11 MA's), (133, 12960), (185, 13053), (216, 13107), (340, 13296), (381, 13353), (393, 13380), (472, 13548), (480, 13563), (516, 13647), (542, 13704), (544, 13707),

Gene: SunsetPointe_19 Start: 14983, Stop: 15840, Start Num: 60

Candidate Starts for SunsetPointe_19:

(Start: 60 @14983 has 92 MA's), (Start: 112 @15055 has 1 MA's), (124, 15073), (142, 15103), (162, 15136), (218, 15241), (245, 15268), (302, 15370), (331, 15415), (378, 15481), (381, 15487), (405, 15541), (408, 15553), (463, 15655), (466, 15667), (471, 15676), (542, 15829), (544, 15832),

Gene: SuperHands_16 Start: 14001, Stop: 14867, Start Num: 63

Candidate Starts for SuperHands_16:

(Start: 63 @14001 has 55 MA's), (135, 14115), (184, 14202), (185, 14205), (187, 14211), (255, 14313), (266, 14328), (291, 14379), (301, 14400), (378, 14514), (458, 14673), (514, 14793), (516, 14799), (530, 14829),

Gene: SuperSulley_41 Start: 29704, Stop: 30621, Start Num: 83

Candidate Starts for SuperSulley_41:

(Start: 83 @29704 has 6 MA's), (137, 29785), (158, 29821), (209, 29911), (247, 29968), (376, 30202), (395, 30229), (410, 30280), (443, 30373), (493, 30490), (531, 30586), (534, 30592), (540, 30607),

Gene: Supernova_15 Start: 11301, Stop: 12242, Start Num: 66

Candidate Starts for Supernova_15:

(55, 11283), (Start: 66 @11301 has 131 MA's), (Start: 83 @11334 has 6 MA's), (Start: 86 @11340 has 9 MA's), (93, 11352), (Start: 118 @11379 has 1 MA's), (124, 11388), (138, 11415), (140, 11418), (142, 11421), (143, 11424), (152, 11436), (157, 11445), (181, 11490), (200, 11520), (207, 11535), (211, 11547), (212, 11550), (213, 11553), (220, 11577), (230, 11601), (238, 11619), (261, 11655), (265, 11661), (277, 11688), (290, 11712), (299, 11730), (302, 11739), (319, 11766), (323, 11772), (358, 11835), (383, 11889), (385, 11892), (387, 11895), (391, 11907), (404, 11946), (408, 11961), (423, 11982), (426, 11997), (433, 12012), (436, 12018), (472, 12090), (473, 12093), (494, 12111), (496, 12114), (499, 12123), (515, 12171), (521, 12183), (524, 12192), (531, 12207), (534, 12213), (540, 12228),

Gene: Superstar_22 Start: 16683, Stop: 17540, Start Num: 63

Candidate Starts for Superstar_22:

(Start: 63 @16683 has 55 MA's), (73, 16701), (Start: 107 @16749 has 33 MA's), (124, 16773), (147, 16812), (264, 16986), (331, 17115), (376, 17175), (378, 17181), (405, 17241), (408, 17253), (471, 17376), (472, 17379), (489, 17412), (518, 17475), (542, 17529), (544, 17532),

Gene: Suscepit_18 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Suscepit_18:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500, 17663), (512, 17696),

Gene: SushiChef_19 Start: 16940, Stop: 17767, Start Num: 115

Candidate Starts for SushiChef_19:

(Start: 115 @16940 has 37 MA's), (163, 17015), (221, 17135), (223, 17141), (275, 17207), (279, 17219), (308, 17276), (314, 17285), (338, 17321), (342, 17330), (355, 17351), (399, 17435), (429, 17510), (442, 17531), (500, 17654), (512, 17687),

Gene: Sweets_17 Start: 15472, Stop: 16644, Start Num: 25

Candidate Starts for Sweets_17:

(7, 15139), (Start: 25 @15472 has 250 MA's), (Start: 68 @15592 has 6 MA's), (Start: 79 @15610 has 5 MA's), (113, 15655), (116, 15661), (152, 15724), (171, 15760), (210, 15829), (211, 15832), (217, 15853), (247, 15907), (275, 15952), (292, 15982), (351, 16084), (358, 16096), (362, 16108), (368, 16126), (425, 16291), (443, 16321), (451, 16339), (461, 16363), (505, 16483), (541, 16573), (547, 16606),

Gene: Sweetums_23 Start: 14346, Stop: 15209, Start Num: 67

Candidate Starts for Sweetums_23:

(Start: 66 @14343 has 131 MA's), (Start: 67 @14346 has 11 MA's), (131, 14436), (133, 14442), (176, 14520), (182, 14529), (185, 14535), (220, 14601), (275, 14667), (286, 14694), (304, 14733), (378, 14850), (381, 14856), (393, 14883), (404, 14907), (463, 15024), (465, 15033), (480, 15063), (514, 15135), (540, 15195),

Gene: Swervy_17 Start: 13097, Stop: 13951, Start Num: 66

Candidate Starts for Swervy_17:

(Start: 66 @13097 has 131 MA's), (114, 13172), (133, 13202), (138, 13211), (204, 13310), (209, 13325), (245, 13382), (301, 13478), (304, 13487), (328, 13520), (388, 13604), (393, 13619), (399, 13625), (509, 13871), (516, 13883), (544, 13943),

Gene: Syra333_21 Start: 15182, Stop: 16321, Start Num: 25

Candidate Starts for Syra333_21:

(Start: 25 @15182 has 250 MA's), (Start: 68 @15302 has 6 MA's), (130, 15392), (168, 15461), (275, 15662), (302, 15716), (383, 15869), (392, 15887), (425, 15968), (446, 16007), (461, 16040), (493, 16133), (503, 16157), (535, 16235), (541, 16250), (549, 16289), (550, 16307),

Gene: TBond007_21 Start: 16221, Stop: 17357, Start Num: 25

Candidate Starts for TBond007_21:

(Start: 25 @16221 has 250 MA's), (Start: 68 @16344 has 6 MA's), (113, 16407), (116, 16413), (134, 16443), (154, 16476), (211, 16581), (217, 16602), (219, 16608), (253, 16665), (292, 16734), (345, 16821), (362, 16857), (425, 17004), (443, 17034), (446, 17043), (461, 17076), (462, 17079), (463, 17082), (493, 17169), (528, 17256), (547, 17319), (549, 17325),

Gene: TClif_21 Start: 15218, Stop: 16354, Start Num: 25

Candidate Starts for TClif_21:

(Start: 25 @15218 has 250 MA's), (Start: 68 @15335 has 6 MA's), (113, 15398), (168, 15494), (217, 15593), (218, 15596), (275, 15695), (383, 15902), (385, 15905), (411, 15983), (461, 16073), (463, 16079), (493, 16166), (541, 16283), (546, 16310), (549, 16322), (550, 16340),

Gene: TM4_18 Start: 13970, Stop: 15097, Start Num: 28

Candidate Starts for TM4_18:

(Start: 28 @13970 has 36 MA's), (32, 13979), (Start: 68 @14081 has 6 MA's), (130, 14171), (154, 14213), (155, 14216), (168, 14240), (217, 14339), (253, 14402), (275, 14441), (302, 14495), (345, 14561), (351, 14573), (372, 14624), (383, 14648), (411, 14726), (425, 14744), (443, 14774), (461, 14816), (462, 14819), (503, 14933), (535, 15011), (541, 15026), (549, 15065), (550, 15083),

Gene: TPA4_18 Start: 16629, Stop: 17726, Start Num: 38

Candidate Starts for TPA4_18:

(9, 16287), (Start: 38 @16629 has 1 MA's), (Start: 79 @16710 has 5 MA's), (113, 16755), (233, 16986), (302, 17121), (348, 17193), (351, 17199), (367, 17238), (443, 17400), (458, 17433), (486, 17511), (535, 17637), (547, 17685), (549, 17691),

Gene: TZGordon_23 Start: 15781, Stop: 16614, Start Num: 94

Candidate Starts for TZGordon_23:

(Start: 94 @15781 has 6 MA's), (Start: 96 @15784 has 5 MA's), (116, 15799), (140, 15838), (152, 15859), (154, 15862), (224, 16006), (343, 16192), (395, 16279), (432, 16363), (472, 16444), (510, 16528), (512, 16534), (516, 16546), (518, 16549), (529, 16573),

Gene: Tachez_22 Start: 15980, Stop: 17116, Start Num: 25

Candidate Starts for Tachez_22:

(Start: 25 @15980 has 250 MA's), (Start: 68 @16097 has 6 MA's), (130, 16187), (141, 16208), (154, 16229), (168, 16256), (302, 16511), (352, 16592), (385, 16667), (392, 16682), (443, 16793), (461, 16835), (493, 16928), (503, 16952), (541, 17045), (549, 17084), (550, 17102),

Gene: TagePhighter_20 Start: 14969, Stop: 15826, Start Num: 60

Candidate Starts for TagePhighter_20:

(Start: 60 @14969 has 92 MA's), (Start: 112 @15041 has 1 MA's), (124, 15059), (218, 15227), (245, 15254), (378, 15467), (381, 15473), (408, 15539), (436, 15596), (463, 15641), (471, 15662), (542, 15815), (544, 15818),

Gene: Taheera_17 Start: 15491, Stop: 16666, Start Num: 25

Candidate Starts for Taheera_17:

(4, 15095), (7, 15155), (Start: 25 @15491 has 250 MA's), (Start: 68 @15614 has 6 MA's), (Start: 79 @15632 has 5 MA's), (113, 15677), (116, 15683), (152, 15746), (171, 15782), (210, 15851), (211, 15854), (217, 15875), (247, 15929), (292, 16004), (351, 16106), (358, 16118), (425, 16313), (443, 16343), (451, 16361), (461, 16385), (497, 16487), (505, 16505), (541, 16595), (547, 16628),

Gene: TaiwanKao_23 Start: 15991, Stop: 17127, Start Num: 25

Candidate Starts for TaiwanKao_23:

(Start: 25 @15991 has 250 MA's), (Start: 68 @16108 has 6 MA's), (130, 16198), (141, 16219), (154, 16240), (168, 16267), (302, 16522), (352, 16603), (385, 16678), (392, 16693), (443, 16804), (461, 16846), (493, 16939), (498, 16951), (503, 16963), (541, 17056), (549, 17095), (550, 17113),

Gene: Taquito_21 Start: 17109, Stop: 18242, Start Num: 25

Candidate Starts for Taquito_21:

(Start: 25 @17109 has 250 MA's), (32, 17127), (49, 17199), (Start: 68 @17229 has 6 MA's), (130, 17319), (154, 17361), (166, 17385), (218, 17490), (302, 17643), (348, 17712), (351, 17718), (411, 17871), (425, 17889), (443, 17919), (461, 17961), (462, 17964), (535, 18156), (541, 18171), (549, 18210), (550, 18228),

Gene: Tayonia_18 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Tayonia_18:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500,

17663), (512, 17696),

Gene: Teagster_17 Start: 14372, Stop: 15349, Start Num: 27

Candidate Starts for Teagster_17:

(Start: 27 @14372 has 5 MA's), (133, 14594), (185, 14687), (216, 14741), (242, 14768), (381, 14987), (400, 15023), (498, 15236), (501, 15245), (516, 15281), (533, 15317), (544, 15341),

Gene: Tedro_30 Start: 17259, Stop: 18149, Start Num: 60

Candidate Starts for Tedro_30:

(Start: 60 @17259 has 92 MA's), (254, 17583), (270, 17607), (284, 17640), (381, 17796), (408, 17862), (464, 17970), (521, 18090), (544, 18141), (545, 18144),

Gene: Teejan_18 Start: 15554, Stop: 16696, Start Num: 25

Candidate Starts for Teejan_18:

(Start: 25 @15554 has 250 MA's), (Start: 68 @15677 has 6 MA's), (130, 15767), (168, 15836), (217, 15935), (218, 15938), (275, 16037), (352, 16172), (443, 16373), (461, 16415), (462, 16418), (493, 16508), (503, 16532), (541, 16625), (549, 16664), (550, 16682),

Gene: Tefunt_19 Start: 15480, Stop: 16337, Start Num: 63

Candidate Starts for Tefunt_19:

(23, 15354), (Start: 24 @15357 has 1 MA's), (Start: 26 @15363 has 2 MA's), (Start: 63 @15480 has 55 MA's), (73, 15498), (124, 15570), (218, 15738), (274, 15801), (331, 15912), (378, 15978), (405, 16038), (408, 16050), (411, 16059), (436, 16107), (471, 16173), (489, 16209), (518, 16272), (542, 16326), (544, 16329),

Gene: Teng_23 Start: 14262, Stop: 15125, Start Num: 67

Candidate Starts for Teng_23:

(Start: 66 @14259 has 131 MA's), (Start: 67 @14262 has 11 MA's), (131, 14352), (133, 14358), (138, 14367), (176, 14436), (182, 14445), (185, 14451), (220, 14517), (275, 14583), (286, 14610), (304, 14649), (376, 14760), (378, 14766), (381, 14772), (393, 14799), (404, 14823), (463, 14940), (465, 14949), (514, 15051), (529, 15084), (540, 15111),

Gene: Terror_17 Start: 15491, Stop: 16666, Start Num: 25

Candidate Starts for Terror_17:

(4, 15095), (7, 15155), (Start: 25 @15491 has 250 MA's), (Start: 68 @15614 has 6 MA's), (Start: 79 @15632 has 5 MA's), (113, 15677), (116, 15683), (152, 15746), (171, 15782), (210, 15851), (211, 15854), (217, 15875), (247, 15929), (292, 16004), (351, 16106), (358, 16118), (425, 16313), (443, 16343), (451, 16361), (461, 16385), (497, 16487), (505, 16505), (541, 16595), (547, 16628),

Gene: ThankyouJordi_17 Start: 16982, Stop: 17809, Start Num: 115

Candidate Starts for ThankyouJordi_17:

(13, 16682), (Start: 115 @16982 has 37 MA's), (221, 17177), (223, 17183), (262, 17228), (279, 17261), (289, 17279), (314, 17327), (338, 17363), (342, 17372), (355, 17393), (360, 17399), (399, 17477), (429, 17552), (512, 17729),

Gene: Thestral_20 Start: 14942, Stop: 15796, Start Num: 63

Candidate Starts for Thestral_20:

(Start: 63 @14942 has 55 MA's), (Start: 71 @14957 has 6 MA's), (99, 14996), (124, 15032), (274, 15263), (337, 15383), (378, 15437), (542, 15785), (544, 15788),

Gene: Thimann_19 Start: 16471, Stop: 17298, Start Num: 115

Candidate Starts for Thimann_19:

(Start: 115 @16471 has 37 MA's), (163, 16546), (201, 16609), (210, 16633), (223, 16672), (225, 16678), (262, 16717), (279, 16750), (291, 16771), (306, 16804), (308, 16807), (311, 16810), (338, 16852), (355, 16882), (361, 16891), (399, 16966), (429, 17041), (442, 17062), (472, 17131),

Gene: Thyatira_20 Start: 16323, Stop: 17453, Start Num: 28

Candidate Starts for Thyatira_20:

(Start: 28 @16323 has 36 MA's), (154, 16566), (168, 16593), (217, 16692), (275, 16794), (302, 16848), (323, 16878), (345, 16914), (346, 16917), (351, 16926), (383, 17001), (385, 17004), (399, 17040), (411, 17082), (425, 17100), (427, 17106), (443, 17130), (444, 17133), (446, 17139), (461, 17172), (541, 17382), (549, 17421), (550, 17439),

Gene: Tierra_21 Start: 15908, Stop: 17047, Start Num: 25

Candidate Starts for Tierra_21:

(Start: 25 @15908 has 250 MA's), (Start: 68 @16028 has 6 MA's), (130, 16118), (168, 16187), (275, 16388), (392, 16613), (410, 16673), (425, 16694), (461, 16766), (462, 16769), (463, 16772), (493, 16859), (503, 16883), (535, 16961), (541, 16976), (549, 17015), (550, 17033),

Gene: Tiggy93_30 Start: 17792, Stop: 18682, Start Num: 60

Candidate Starts for Tiggy93_30:

(Start: 60 @17792 has 92 MA's), (254, 18116), (270, 18140), (284, 18173), (381, 18329), (408, 18395), (464, 18503), (521, 18623), (544, 18674), (545, 18677),

Gene: Tigress9_21 Start: 15170, Stop: 16309, Start Num: 25

Candidate Starts for Tigress9_21:

(Start: 25 @15170 has 250 MA's), (Start: 68 @15290 has 6 MA's), (130, 15380), (168, 15449), (275, 15650), (352, 15785), (354, 15788), (392, 15875), (410, 15935), (425, 15956), (443, 15986), (461, 16028), (462, 16031), (463, 16034), (493, 16121), (503, 16145), (535, 16223), (541, 16238), (549, 16277), (550, 16295),

Gene: TimTam_18 Start: 16940, Stop: 17767, Start Num: 115

Candidate Starts for TimTam_18:

(Start: 115 @16940 has 37 MA's), (163, 17015), (221, 17135), (223, 17141), (275, 17207), (279, 17219), (308, 17276), (314, 17285), (338, 17321), (342, 17330), (355, 17351), (399, 17435), (429, 17510), (442, 17531), (500, 17654), (512, 17687),

Gene: TinaBelcher_19 Start: 14890, Stop: 15744, Start Num: 63

Candidate Starts for TinaBelcher_19:

(Start: 63 @14890 has 55 MA's), (99, 14944), (124, 14980), (274, 15211), (378, 15385), (542, 15733), (544, 15736),

Gene: TinaBug_17 Start: 15472, Stop: 16644, Start Num: 25

Candidate Starts for TinaBug_17:

(7, 15139), (Start: 25 @15472 has 250 MA's), (Start: 68 @15592 has 6 MA's), (Start: 79 @15610 has 5 MA's), (113, 15655), (116, 15661), (152, 15724), (171, 15760), (210, 15829), (211, 15832), (217, 15853), (247, 15907), (275, 15952), (292, 15982), (351, 16084), (358, 16096), (362, 16108), (368, 16126), (425, 16291), (443, 16321), (451, 16339), (461, 16363), (505, 16483), (541, 16573), (547, 16606),

Gene: TinaLin_24 Start: 16616, Stop: 17446, Start Num: 96

Candidate Starts for TinaLin_24:

(Start: 94 @16613 has 6 MA's), (Start: 96 @16616 has 5 MA's), (116, 16631), (135, 16661), (140, 16670), (154, 16694), (214, 16808), (215, 16814), (219, 16826), (224, 16838), (288, 16937), (343, 17024), (356, 17048), (401, 17132), (408, 17156), (409, 17159), (432, 17195), (472, 17276), (501,

17342), (512, 17366), (516, 17378), (518, 17381),

Gene: TingHuaYa_22 Start: 15317, Stop: 16453, Start Num: 25

Candidate Starts for TingHuaYa_22:

(Start: 25 @15317 has 250 MA's), (Start: 68 @15434 has 6 MA's), (141, 15545), (168, 15593), (218, 15695), (302, 15848), (352, 15929), (385, 16004), (392, 16019), (443, 16130), (461, 16172), (493, 16265), (503, 16289), (541, 16382), (549, 16421), (550, 16439),

Gene: TiniBug_22 Start: 15962, Stop: 17098, Start Num: 25

Candidate Starts for TiniBug_22:

(Start: 25 @15962 has 250 MA's), (Start: 68 @16079 has 6 MA's), (130, 16169), (141, 16190), (154, 16211), (168, 16238), (275, 16439), (302, 16493), (305, 16499), (352, 16574), (385, 16649), (392, 16664), (461, 16817), (493, 16910), (503, 16934), (541, 17027), (549, 17066), (550, 17084),

Gene: TinyDot_18 Start: 14464, Stop: 15303, Start Num: 121

Candidate Starts for TinyDot_18:

(Start: 121 @14464 has 2 MA's), (133, 14476), (191, 14572), (223, 14647), (258, 14695), (262, 14704), (291, 14761), (311, 14800), (314, 14806), (338, 14839), (436, 15043), (534, 15274),

Gene: TinyMiny_31 Start: 17599, Stop: 18483, Start Num: 62

Candidate Starts for TinyMiny_31:

(29, 17500), (Start: 62 @17599 has 21 MA's), (126, 17695), (138, 17716), (185, 17800), (187, 17806), (274, 17947), (408, 18196), (424, 18226), (464, 18304), (470, 18316), (471, 18319), (480, 18337), (509, 18403), (513, 18406), (514, 18409), (544, 18475), (545, 18478),

Gene: Tiri_22 Start: 16023, Stop: 17159, Start Num: 25

Candidate Starts for Tiri_22:

(Start: 25 @16023 has 250 MA's), (Start: 68 @16140 has 6 MA's), (130, 16230), (141, 16251), (154, 16272), (168, 16299), (302, 16554), (352, 16635), (385, 16710), (392, 16725), (443, 16836), (461, 16878), (493, 16971), (503, 16995), (541, 17088), (549, 17127), (550, 17145),

Gene: Toast_18 Start: 15883, Stop: 16743, Start Num: 70

Candidate Starts for Toast_18:

(Start: 70 @15883 has 24 MA's), (Start: 85 @15898 has 1 MA's), (108, 15928), (123, 15949), (174, 16039), (215, 16120), (351, 16324), (352, 16327), (454, 16522), (492, 16612), (509, 16654), (529, 16702), (531, 16708),

Gene: TomBrady_17 Start: 15478, Stop: 16650, Start Num: 25

Candidate Starts for TomBrady_17:

(7, 15145), (Start: 25 @15478 has 250 MA's), (Start: 68 @15598 has 6 MA's), (Start: 79 @15616 has 5 MA's), (113, 15661), (116, 15667), (152, 15730), (171, 15766), (210, 15835), (211, 15838), (217, 15859), (247, 15913), (275, 15958), (292, 15988), (351, 16090), (358, 16102), (362, 16114), (368, 16132), (425, 16297), (443, 16327), (451, 16345), (461, 16369), (505, 16489), (541, 16579), (547, 16612),

Gene: Toma_19 Start: 14982, Stop: 15839, Start Num: 60

Candidate Starts for Toma_19:

(Start: 60 @14982 has 92 MA's), (Start: 112 @15054 has 1 MA's), (162, 15135), (218, 15240), (219, 15243), (245, 15267), (331, 15414), (374, 15471), (376, 15474), (378, 15480), (408, 15552), (436, 15609), (471, 15675), (542, 15828), (544, 15831),

Gene: Tongui_29 Start: 17294, Stop: 18184, Start Num: 60

Candidate Starts for Tongui_29:

(Start: 60 @17294 has 92 MA's), (215, 17549), (254, 17618), (270, 17642), (284, 17675), (381, 17831), (399, 17864), (464, 18005), (507, 18095), (521, 18125), (544, 18176), (545, 18179),

Gene: Toniann_47 Start: 28657, Stop: 29538, Start Num: 74

Candidate Starts for Toniann_47:

(Start: 74 @28657 has 13 MA's), (Start: 110 @28705 has 2 MA's), (130, 28732), (170, 28804), (208, 28870), (217, 28900), (293, 29008), (351, 29101), (362, 29125), (367, 29140), (411, 29236), (443, 29284), (514, 29464), (530, 29500),

Gene: Topper_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Topper_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Torres_18 Start: 15554, Stop: 16696, Start Num: 25

Candidate Starts for Torres_18:

(Start: 25 @15554 has 250 MA's), (Start: 68 @15677 has 6 MA's), (130, 15767), (168, 15836), (217, 15935), (218, 15938), (275, 16037), (352, 16172), (443, 16373), (461, 16415), (462, 16418), (493, 16508), (503, 16532), (541, 16625), (549, 16664), (550, 16682),

Gene: Towmatter_27 Start: 24381, Stop: 25262, Start Num: 70

Candidate Starts for Towmatter_27:

(Start: 70 @24381 has 24 MA's), (130, 24456), (164, 24519), (170, 24528), (174, 24537), (246, 24657), (286, 24717), (351, 24825), (411, 24960), (443, 25008), (475, 25083), (492, 25131), (511, 25179), (514, 25188),

Gene: Tracker_40 Start: 28657, Stop: 29598, Start Num: 81

Candidate Starts for Tracker_40:

(Start: 81 @28657 has 28 MA's), (137, 28744), (178, 28819), (214, 28885), (247, 28927), (282, 28984), (397, 29197), (405, 29224), (443, 29335), (493, 29467), (531, 29563),

Gene: TreyKay_22 Start: 15985, Stop: 17121, Start Num: 25

Candidate Starts for TreyKay_22:

(Start: 25 @15985 has 250 MA's), (Start: 68 @16102 has 6 MA's), (130, 16192), (141, 16213), (154, 16234), (168, 16261), (302, 16516), (352, 16597), (385, 16672), (392, 16687), (443, 16798), (461, 16840), (493, 16933), (503, 16957), (541, 17050), (549, 17089), (550, 17107),

Gene: TribelTrouble_20 Start: 16264, Stop: 17403, Start Num: 25

Candidate Starts for TribelTrouble_20:

(Start: 25 @16264 has 250 MA's), (Start: 68 @16390 has 6 MA's), (113, 16453), (116, 16459), (134, 16489), (154, 16522), (211, 16627), (217, 16648), (275, 16750), (292, 16780), (319, 16825), (362, 16903), (425, 17050), (443, 17080), (446, 17089), (461, 17122), (462, 17125), (463, 17128), (493, 17215), (528, 17302), (538, 17326), (541, 17332), (547, 17365), (549, 17371),

Gene: Trice_18 Start: 15554, Stop: 16696, Start Num: 25

Candidate Starts for Trice_18:

(Start: 25 @15554 has 250 MA's), (Start: 68 @15677 has 6 MA's), (130, 15767), (168, 15836), (217, 15935), (218, 15938), (275, 16037), (352, 16172), (443, 16373), (461, 16415), (462, 16418), (493, 16508), (503, 16532), (541, 16625), (549, 16664), (550, 16682),

Gene: Triste_19 Start: 14960, Stop: 15817, Start Num: 60

Candidate Starts for Triste_19:

(Start: 60 @14960 has 92 MA's), (Start: 112 @15032 has 1 MA's), (124, 15050), (218, 15218), (245, 15245), (361, 15440), (378, 15458), (381, 15464), (405, 15518), (463, 15632), (471, 15653), (542, 15806), (544, 15809),

Gene: Triumph_21 Start: 14890, Stop: 15744, Start Num: 63

Candidate Starts for Triumph_21:

(Start: 63 @14890 has 55 MA's), (99, 14944), (124, 14980), (162, 15043), (212, 15127), (374, 15376), (378, 15385), (393, 15418), (411, 15466), (456, 15541), (471, 15580), (542, 15733), (544, 15736),

Gene: TruffulaTree_22 Start: 16014, Stop: 17150, Start Num: 25

Candidate Starts for TruffulaTree_22:

(Start: 25 @16014 has 250 MA's), (Start: 68 @16131 has 6 MA's), (130, 16221), (141, 16242), (154, 16263), (168, 16290), (302, 16545), (352, 16626), (385, 16701), (392, 16716), (443, 16827), (461, 16869), (493, 16962), (503, 16986), (541, 17079), (549, 17118), (550, 17136),

Gene: Trumpet_18 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Trumpet_18:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500, 17663), (512, 17696),

Gene: TrvxScott_18 Start: 14892, Stop: 15746, Start Num: 63

Candidate Starts for TrvxScott_18:

(Start: 63 @14892 has 55 MA's), (99, 14946), (124, 14982), (274, 15213), (376, 15381), (378, 15387), (542, 15735), (544, 15738),

Gene: TuanPN_19 Start: 14966, Stop: 15823, Start Num: 60

Candidate Starts for TuanPN_19:

(Start: 60 @14966 has 92 MA's), (Start: 112 @15038 has 1 MA's), (124, 15056), (218, 15224), (245, 15251), (378, 15464), (381, 15470), (408, 15536), (436, 15593), (463, 15638), (471, 15659), (530, 15785), (542, 15812), (544, 15815),

Gene: TuertoX_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for TuertoX_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: TukTuk_17 Start: 13155, Stop: 14009, Start Num: 66

Candidate Starts for TukTuk_17:

(Start: 66 @13155 has 131 MA's), (114, 13230), (133, 13260), (138, 13269), (204, 13368), (209, 13383), (245, 13440), (301, 13536), (304, 13545), (328, 13578), (388, 13662), (393, 13677), (509, 13929), (516, 13941), (544, 14001),

Gene: TurboVicky_20 Start: 15338, Stop: 16231, Start Num: 69

Candidate Starts for TurboVicky_20:

(Start: 69 @15338 has 33 MA's), (133, 15431), (138, 15440), (182, 15518), (209, 15569), (235, 15629), (274, 15683), (275, 15686), (276, 15692), (425, 15974), (426, 15977), (463, 16046), (471, 16067), (472, 16070), (503, 16130), (531, 16196),

Gene: Turuncu_44 Start: 29978, Stop: 30895, Start Num: 81

Candidate Starts for Turuncu_44:

(Start: 81 @29978 has 28 MA's), (137, 30056), (176, 30128), (217, 30209), (302, 30338), (397, 30509), (454, 30665), (493, 30764), (521, 30839), (531, 30860),

Gene: Tuti_19 Start: 16876, Stop: 17712, Start Num: 106

Candidate Starts for Tuti_19:

(Start: 106 @16876 has 19 MA's), (Start: 115 @16885 has 37 MA's), (143, 16927), (163, 16960), (171, 16975), (201, 17023), (223, 17086), (225, 17092), (262, 17131), (291, 17185), (311, 17224), (338, 17266), (355, 17296), (361, 17305), (399, 17380), (404, 17398), (429, 17455), (472, 17545), (512, 17632),

Gene: Twinkle_19 Start: 18137, Stop: 18964, Start Num: 115

Candidate Starts for Twinkle_19:

(Start: 106 @18128 has 19 MA's), (Start: 115 @18137 has 37 MA's), (143, 18179), (163, 18212), (171, 18227), (201, 18275), (223, 18338), (225, 18344), (262, 18383), (291, 18437), (298, 18452), (311, 18476), (314, 18482), (338, 18518), (355, 18548), (361, 18557), (429, 18707), (472, 18797), (512, 18884),

Gene: Twitch_22 Start: 16051, Stop: 17187, Start Num: 25

Candidate Starts for Twitch_22:

(Start: 25 @16051 has 250 MA's), (Start: 68 @16168 has 6 MA's), (130, 16258), (141, 16279), (154, 16300), (168, 16327), (302, 16582), (352, 16663), (385, 16738), (392, 16753), (443, 16864), (461, 16906), (493, 16999), (503, 17023), (541, 17116), (549, 17155), (550, 17173),

Gene: Typha_23 Start: 18613, Stop: 19611, Start Num: 50

Candidate Starts for Typha_23:

(Start: 50 @18613 has 6 MA's), (95, 18679), (152, 18769), (155, 18775), (180, 18823), (209, 18871), (217, 18898), (228, 18925), (235, 18928), (253, 18949), (282, 19000), (307, 19051), (315, 19060), (332, 19087), (368, 19162), (378, 19186), (427, 19276), (443, 19300), (444, 19303), (461, 19339), (481, 19393), (483, 19402), (498, 19444), (499, 19447), (535, 19528), (538, 19537), (549, 19582),

Gene: Typher_22 Start: 15468, Stop: 16361, Start Num: 69

Candidate Starts for Typher_22:

(Start: 69 @15468 has 33 MA's), (133, 15561), (138, 15570), (182, 15648), (209, 15699), (235, 15759), (274, 15813), (275, 15816), (276, 15822), (425, 16104), (426, 16107), (463, 16176), (471, 16197), (472, 16200), (503, 16260), (531, 16326),

Gene: UmaThurman_18 Start: 15921, Stop: 16781, Start Num: 72

Candidate Starts for UmaThurman_18:

(Start: 68 @15915 has 6 MA's), (Start: 72 @15921 has 26 MA's), (174, 16077), (215, 16158), (286, 16257), (352, 16365), (397, 16449), (425, 16515), (454, 16560), (492, 16650), (509, 16692),

Gene: Unicorn_21 Start: 15233, Stop: 16372, Start Num: 25

Candidate Starts for Unicorn_21:

(Start: 25 @15233 has 250 MA's), (Start: 68 @15353 has 6 MA's), (130, 15443), (168, 15512), (275, 15713), (302, 15767), (323, 15797), (392, 15938), (410, 15998), (425, 16019), (443, 16049), (461, 16091), (462, 16094), (463, 16097), (493, 16184), (503, 16208), (535, 16286), (541, 16301), (549, 16340), (550, 16358),

Gene: Unstoppable_19 Start: 14984, Stop: 15841, Start Num: 60

Candidate Starts for Unstoppable_19:

(Start: 60 @14984 has 92 MA's), (Start: 112 @15056 has 1 MA's), (124, 15074), (142, 15104), (162, 15137), (218, 15242), (245, 15269), (302, 15371), (331, 15416), (378, 15482), (381, 15488), (405, 15542), (408, 15554), (463, 15656), (466, 15668), (471, 15677), (542, 15830), (544, 15833),

Gene: Urkel_22 Start: 15965, Stop: 17101, Start Num: 25

Candidate Starts for Urkel_22:

(Start: 25 @15965 has 250 MA's), (Start: 68 @16082 has 6 MA's), (130, 16172), (141, 16193), (154, 16214), (168, 16241), (275, 16442), (302, 16496), (305, 16502), (352, 16577), (385, 16652), (392, 16667), (461, 16820), (493, 16913), (503, 16937), (541, 17030), (549, 17069), (550, 17087),

Gene: Urza_19 Start: 15351, Stop: 16208, Start Num: 63

Candidate Starts for Urza_19:

(Start: 63 @15351 has 55 MA's), (Start: 92 @15402 has 1 MA's), (Start: 112 @15423 has 1 MA's), (124, 15441), (138, 15465), (162, 15504), (381, 15855), (393, 15882), (408, 15921), (437, 15981), (530, 16170), (542, 16197), (544, 16200),

Gene: Utz_18 Start: 15788, Stop: 16648, Start Num: 72

Candidate Starts for Utz_18:

(Start: 68 @15782 has 6 MA's), (Start: 72 @15788 has 26 MA's), (174, 15944), (215, 16025), (286, 16124), (352, 16232), (397, 16316), (427, 16388), (492, 16517), (503, 16544), (509, 16559),

Gene: UtzChips_15 Start: 12272, Stop: 13138, Start Num: 63

Candidate Starts for UtzChips_15:

(Start: 63 @12272 has 55 MA's), (75, 12293), (142, 12398), (185, 12476), (307, 12683), (378, 12785), (456, 12935), (489, 13010), (516, 13070), (539, 13121),

Gene: Validus_22 Start: 15308, Stop: 16447, Start Num: 25

Candidate Starts for Validus_22:

(Start: 25 @15308 has 250 MA's), (Start: 68 @15428 has 6 MA's), (130, 15518), (168, 15587), (217, 15686), (218, 15689), (275, 15788), (302, 15842), (352, 15923), (385, 15998), (392, 16013), (443, 16124), (461, 16166), (462, 16169), (493, 16259), (526, 16343), (535, 16361), (541, 16376), (549, 16415), (550, 16433),

Gene: Vanseggelen_24 Start: 15333, Stop: 16190, Start Num: 62

Candidate Starts for Vanseggelen_24:

(12, 15054), (Start: 62 @15333 has 21 MA's), (84, 15369), (Start: 112 @15405 has 1 MA's), (124, 15423), (138, 15447), (218, 15591), (276, 15663), (304, 15723), (331, 15765), (361, 15813), (463, 16005), (471, 16026), (531, 16155), (542, 16179), (544, 16182),

Gene: Vasanti_16 Start: 13856, Stop: 14704, Start Num: 107

Candidate Starts for Vasanti_16:

(54, 13769), (Start: 107 @13856 has 33 MA's), (114, 13862), (Start: 115 @13865 has 37 MA's), (163, 13940), (207, 14018), (212, 14033), (217, 14051), (237, 14084), (311, 14207), (318, 14219), (324, 14228), (399, 14363), (463, 14513), (531, 14669), (534, 14675),

Gene: Veliki_22 Start: 16054, Stop: 17190, Start Num: 25

Candidate Starts for Veliki_22:

(Start: 25 @16054 has 250 MA's), (Start: 68 @16171 has 6 MA's), (130, 16261), (141, 16282), (154, 16303), (168, 16330), (302, 16585), (352, 16666), (385, 16741), (392, 16756), (443, 16867), (461, 16909), (493, 17002), (503, 17026), (541, 17119), (549, 17158), (550, 17176),

Gene: Vendetta_21 Start: 15645, Stop: 16475, Start Num: 96

Candidate Starts for Vendetta_21:

(Start: 94 @15642 has 6 MA's), (Start: 96 @15645 has 5 MA's), (116, 15660), (140, 15699), (152, 15720), (154, 15723), (224, 15867), (343, 16053), (373, 16122), (432, 16224), (472, 16305), (473, 16308), (510, 16389), (512, 16395), (516, 16407), (518, 16410), (529, 16434),

Gene: Verabelle_20 Start: 15664, Stop: 16521, Start Num: 62

Candidate Starts for Verabelle_20:

(Start: 62 @15664 has 21 MA's), (Start: 71 @15679 has 6 MA's), (84, 15700), (Start: 112 @15736 has 1 MA's), (124, 15754), (138, 15778), (217, 15919), (218, 15922), (245, 15949), (331, 16096), (376, 16156), (381, 16168), (390, 16186), (463, 16336), (471, 16357), (531, 16486), (542, 16510), (544, 16513),

Gene: Verse_19 Start: 15963, Stop: 16820, Start Num: 62

Candidate Starts for Verse_19:

(Start: 62 @15963 has 21 MA's), (84, 15999), (Start: 112 @16035 has 1 MA's), (138, 16077), (218, 16221), (304, 16353), (376, 16455), (378, 16461), (463, 16635), (471, 16656), (514, 16746), (531, 16785), (542, 16809), (544, 16812),

Gene: VieEnRose_19 Start: 15417, Stop: 16274, Start Num: 63

Candidate Starts for VieEnRose_19:

(Start: 63 @15417 has 55 MA's), (Start: 92 @15468 has 1 MA's), (Start: 112 @15489 has 1 MA's), (138, 15531), (162, 15570), (282, 15762), (381, 15921), (393, 15948), (408, 15987), (530, 16236), (542, 16263), (544, 16266),

Gene: Violeta_24 Start: 13663, Stop: 14523, Start Num: 69

Candidate Starts for Violeta_24:

(Start: 69 @13663 has 33 MA's), (89, 13699), (Start: 92 @13702 has 1 MA's), (Start: 112 @13723 has 1 MA's), (Start: 115 @13729 has 37 MA's), (124, 13741), (133, 13756), (171, 13822), (185, 13849), (209, 13879), (219, 13912), (286, 14005), (300, 14032), (376, 14155), (378, 14161), (393, 14194), (427, 14272), (540, 14509), (542, 14512),

Gene: Vitas_16 Start: 11609, Stop: 12466, Start Num: 66

Candidate Starts for Vitas_16:

(Start: 66 @11609 has 131 MA's), (87, 11648), (114, 11684), (133, 11714), (140, 11726), (204, 11822), (245, 11894), (291, 11969), (301, 11990), (404, 12158), (459, 12269),

Gene: ViviJ_19 Start: 16180, Stop: 17310, Start Num: 28

Candidate Starts for ViviJ_19:

(Start: 28 @16180 has 36 MA's), (113, 16354), (152, 16420), (154, 16423), (168, 16450), (217, 16549), (275, 16651), (302, 16705), (323, 16735), (345, 16771), (346, 16774), (351, 16783), (383, 16858), (385, 16861), (399, 16897), (411, 16939), (425, 16957), (427, 16963), (443, 16987), (444, 16990), (461, 17029), (541, 17239), (549, 17278), (550, 17296),

Gene: WalkingDead_17 Start: 13121, Stop: 13978, Start Num: 66

Candidate Starts for WalkingDead_17:

(Start: 66 @13121 has 131 MA's), (89, 13166), (114, 13196), (133, 13226), (204, 13334), (209, 13349), (245, 13406), (301, 13502), (304, 13511), (328, 13544), (454, 13763), (509, 13898), (516, 13910), (544, 13970),

Gene: Walrus_19 Start: 16016, Stop: 16876, Start Num: 72

Candidate Starts for Walrus_19:

(Start: 68 @16010 has 6 MA's), (Start: 72 @16016 has 26 MA's), (174, 16172), (215, 16253), (286, 16352), (352, 16460), (397, 16544), (425, 16610), (454, 16655), (492, 16745), (509, 16787),

Gene: Warren_23 Start: 13763, Stop: 14623, Start Num: 69

Candidate Starts for Warren_23:

(Start: 69 @13763 has 33 MA's), (89, 13799), (Start: 92 @13802 has 1 MA's), (Start: 112 @13823 has 1 MA's), (Start: 115 @13829 has 37 MA's), (133, 13856), (171, 13922), (185, 13949), (209, 13979), (219, 14012), (286, 14105), (300, 14132), (376, 14255), (378, 14261), (393, 14294), (427, 14372), (540, 14609), (542, 14612),

Gene: Waterfoul_20 Start: 16344, Stop: 17474, Start Num: 28

Candidate Starts for Waterfoul_20:

(Start: 28 @16344 has 36 MA's), (154, 16587), (168, 16614), (217, 16713), (275, 16815), (302, 16869), (323, 16899), (345, 16935), (346, 16938), (351, 16947), (383, 17022), (385, 17025), (399, 17061), (411, 17103), (425, 17121), (427, 17127), (443, 17151), (444, 17154), (446, 17160), (461, 17193), (541, 17403), (549, 17442), (550, 17460),

Gene: WelcomeAyanna_17 Start: 16982, Stop: 17809, Start Num: 115

Candidate Starts for WelcomeAyanna_17:

(13, 16682), (Start: 115 @16982 has 37 MA's), (221, 17177), (223, 17183), (262, 17228), (279, 17261), (289, 17279), (314, 17327), (338, 17363), (342, 17372), (355, 17393), (360, 17399), (399, 17477), (429, 17552), (512, 17729),

Gene: Wendigo_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Wendigo_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Werner_19 Start: 14970, Stop: 15827, Start Num: 60

Candidate Starts for Werner_19:

(Start: 60 @14970 has 92 MA's), (Start: 112 @15042 has 1 MA's), (124, 15060), (218, 15228), (245, 15255), (361, 15450), (378, 15468), (381, 15474), (405, 15528), (463, 15642), (471, 15663), (542, 15816), (544, 15819),

Gene: Whatever_19 Start: 14970, Stop: 15827, Start Num: 60

Candidate Starts for Whatever_19:

(Start: 60 @14970 has 92 MA's), (Start: 112 @15042 has 1 MA's), (124, 15060), (218, 15228), (245, 15255), (361, 15450), (378, 15468), (381, 15474), (405, 15528), (463, 15642), (471, 15663), (542, 15816), (544, 15819),

Gene: Wheezy_40 Start: 28862, Stop: 29803, Start Num: 81

Candidate Starts for Wheezy_40:

(Start: 81 @28862 has 28 MA's), (137, 28949), (178, 29024), (214, 29090), (247, 29132), (282, 29189), (397, 29402), (405, 29429), (443, 29540), (493, 29672), (531, 29768),

Gene: Whiteclaw_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for Whiteclaw_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: WhoseManz_42 Start: 26578, Stop: 27498, Start Num: 86

Candidate Starts for WhoseManz_42:

(Start: 86 @26578 has 9 MA's), (137, 26659), (163, 26704), (205, 26773), (282, 26899), (302, 26941), (356, 27025), (376, 27076), (397, 27109), (443, 27247), (469, 27307), (476, 27325), (493, 27367),

(529, 27457), (531, 27463), (540, 27484),

Gene: William_18 Start: 15832, Stop: 16692, Start Num: 70

Candidate Starts for William_18:

(Start: 70 @15832 has 24 MA's), (Start: 85 @15847 has 1 MA's), (108, 15877), (123, 15898), (174, 15988), (215, 16069), (351, 16273), (352, 16276), (454, 16471), (492, 16561), (509, 16603), (529, 16651), (531, 16657),

Gene: WilliamBoone_47 Start: 28015, Stop: 28902, Start Num: 70

Candidate Starts for WilliamBoone_47:

(Start: 70 @28015 has 24 MA's), (Start: 74 @28021 has 13 MA's), (Start: 110 @28069 has 2 MA's), (130, 28096), (170, 28168), (176, 28183), (293, 28372), (351, 28465), (362, 28489), (367, 28504), (410, 28597), (411, 28600), (443, 28648), (514, 28828), (530, 28864),

Gene: Winchester007_24 Start: 13706, Stop: 14566, Start Num: 69

Candidate Starts for Winchester007_24:

(Start: 69 @13706 has 33 MA's), (89, 13742), (Start: 92 @13745 has 1 MA's), (Start: 112 @13766 has 1 MA's), (Start: 115 @13772 has 37 MA's), (124, 13784), (133, 13799), (171, 13865), (185, 13892), (209, 13922), (219, 13955), (286, 14048), (376, 14198), (378, 14204), (393, 14237), (427, 14315), (540, 14552), (542, 14555),

Gene: WinkNick_19 Start: 16489, Stop: 17325, Start Num: 106

Candidate Starts for WinkNick_19:

(Start: 106 @16489 has 19 MA's), (Start: 115 @16498 has 37 MA's), (143, 16540), (163, 16573), (171, 16588), (201, 16636), (223, 16699), (225, 16705), (262, 16744), (291, 16798), (311, 16837), (314, 16843), (338, 16879), (355, 16909), (361, 16918), (429, 17068), (512, 17245),

Gene: WinnieLou_31 Start: 17418, Stop: 18308, Start Num: 60

Candidate Starts for WinnieLou_31:

(Start: 60 @17418 has 92 MA's), (254, 17742), (270, 17766), (284, 17799), (381, 17955), (399, 17988), (408, 18021), (464, 18129), (507, 18219), (521, 18249), (544, 18300), (545, 18303),

Gene: Wintermute_23 Start: 17489, Stop: 18622, Start Num: 25

Candidate Starts for Wintermute_23:

(Start: 25 @17489 has 250 MA's), (32, 17507), (49, 17579), (Start: 68 @17609 has 6 MA's), (130, 17699), (154, 17741), (166, 17765), (218, 17870), (348, 18092), (351, 18098), (410, 18248), (411, 18251), (425, 18269), (443, 18299), (461, 18341), (462, 18344), (481, 18395), (535, 18536), (541, 18551), (549, 18590), (550, 18608),

Gene: Wisp_17 Start: 15506, Stop: 16366, Start Num: 72

Candidate Starts for Wisp_17:

(Start: 68 @15500 has 6 MA's), (Start: 72 @15506 has 26 MA's), (Start: 85 @15521 has 1 MA's), (174, 15662), (215, 15743), (261, 15800), (267, 15809), (286, 15842), (352, 15950), (397, 16034), (425, 16100), (454, 16145), (492, 16235), (509, 16277), (544, 16358),

Gene: Wizzo_15 Start: 11316, Stop: 12257, Start Num: 66

Candidate Starts for Wizzo_15:

(Start: 61 @11307 has 4 MA's), (Start: 63 @11310 has 55 MA's), (Start: 66 @11316 has 131 MA's), (Start: 83 @11349 has 6 MA's), (Start: 86 @11355 has 9 MA's), (93, 11367), (Start: 118 @11394 has 1 MA's), (124, 11403), (140, 11433), (142, 11436), (143, 11439), (181, 11505), (200, 11535), (207, 11550), (211, 11562), (212, 11565), (213, 11568), (220, 11592), (230, 11616), (236, 11631), (238, 11634), (261, 11670), (265, 11676), (277, 11703), (278, 11706), (302, 11754), (317, 11778), (319, 11781), (323, 11787), (358, 11850), (362, 11862), (377, 11892), (383, 11904), (385, 11907), (387,

11910), (404, 11961), (408, 11976), (423, 11997), (426, 12012), (433, 12027), (436, 12033), (472, 12105), (473, 12108), (494, 12126), (496, 12129), (499, 12138), (515, 12186), (521, 12198), (524, 12207), (530, 12219), (531, 12222), (534, 12228), (540, 12243),

Gene: Wocket_19 Start: 15980, Stop: 16840, Start Num: 72

Candidate Starts for Wocket_19:

(Start: 68 @15974 has 6 MA's), (Start: 72 @15980 has 26 MA's), (174, 16136), (352, 16424), (397, 16508), (425, 16574), (427, 16580), (492, 16709), (509, 16751),

Gene: Wrackline_27 Start: 15094, Stop: 15957, Start Num: 67

Candidate Starts for Wrackline_27:

(Start: 24 @14956 has 1 MA's), (Start: 67 @15094 has 11 MA's), (73, 15103), (80, 15115), (99, 15139), (Start: 112 @15157 has 1 MA's), (133, 15190), (182, 15277), (185, 15283), (186, 15286), (209, 15313), (219, 15346), (232, 15367), (242, 15379), (274, 15412), (275, 15415), (310, 15490), (324, 15511), (328, 15520), (376, 15592), (378, 15598), (393, 15631), (404, 15655), (408, 15670), (436, 15724), (454, 15748), (471, 15793), (480, 15811), (542, 15946),

Gene: Ximenita_22 Start: 15360, Stop: 16499, Start Num: 25

Candidate Starts for Ximenita_22:

(Start: 25 @15360 has 250 MA's), (Start: 68 @15480 has 6 MA's), (130, 15570), (168, 15639), (275, 15840), (302, 15894), (383, 16047), (392, 16065), (425, 16146), (443, 16176), (446, 16185), (461, 16218), (493, 16311), (503, 16335), (535, 16413), (541, 16428), (549, 16467), (550, 16485),

Gene: Y10_23 Start: 17489, Stop: 18622, Start Num: 25

Candidate Starts for Y10_23:

(Start: 25 @17489 has 250 MA's), (32, 17507), (49, 17579), (Start: 68 @17609 has 6 MA's), (130, 17699), (154, 17741), (166, 17765), (218, 17870), (348, 18092), (351, 18098), (410, 18248), (411, 18251), (425, 18269), (443, 18299), (461, 18341), (462, 18344), (481, 18395), (535, 18536), (541, 18551), (549, 18590), (550, 18608),

Gene: Y2_23 Start: 17489, Stop: 18622, Start Num: 25

Candidate Starts for Y2_23:

(Start: 25 @17489 has 250 MA's), (32, 17507), (49, 17579), (Start: 68 @17609 has 6 MA's), (130, 17699), (154, 17741), (166, 17765), (218, 17870), (348, 18092), (351, 18098), (410, 18248), (411, 18251), (425, 18269), (443, 18299), (461, 18341), (462, 18344), (481, 18395), (535, 18536), (541, 18551), (549, 18590), (550, 18608),

Gene: YangYin_17 Start: 15824, Stop: 17002, Start Num: 25

Candidate Starts for YangYin_17:

(4, 15413), (7, 15473), (Start: 25 @15824 has 250 MA's), (Start: 79 @15968 has 5 MA's), (116, 16019), (154, 16085), (155, 16088), (210, 16187), (211, 16190), (218, 16214), (243, 16259), (247, 16265), (358, 16454), (381, 16514), (417, 16622), (421, 16634), (443, 16679), (461, 16721), (524, 16895), (526, 16898), (535, 16916), (546, 16958), (547, 16964),

Gene: Yasdnii_19 Start: 14962, Stop: 15819, Start Num: 60

Candidate Starts for Yasdnii_19:

(Start: 60 @14962 has 92 MA's), (Start: 112 @15034 has 1 MA's), (124, 15052), (218, 15220), (245, 15247), (378, 15460), (381, 15466), (408, 15532), (436, 15589), (463, 15634), (471, 15655), (530, 15781), (542, 15808), (544, 15811),

Gene: YasnayaPolyana_23 Start: 17490, Stop: 18623, Start Num: 25

Candidate Starts for YasnayaPolyana_23:

(Start: 25 @17490 has 250 MA's), (32, 17508), (49, 17580), (Start: 68 @17610 has 6 MA's), (130, 17700), (154, 17742), (166, 17766), (218, 17871), (348, 18093), (351, 18099), (410, 18249), (411, 18252), (425, 18270), (443, 18300), (461, 18342), (462, 18345), (481, 18396), (535, 18537), (541, 18552), (549, 18591), (550, 18609),

Gene: Yeet412_16 Start: 13903, Stop: 14751, Start Num: 107

Candidate Starts for Yeet412_16:

(Start: 107 @13903 has 33 MA's), (114, 13909), (196, 14044), (237, 14131), (266, 14164), (308, 14251), (311, 14254), (324, 14275), (338, 14299), (355, 14332), (459, 14554), (463, 14560), (534, 14722),

Gene: Yeezy_19 Start: 16295, Stop: 17122, Start Num: 115

Candidate Starts for Yeezy_19:

(Start: 115 @16295 has 37 MA's), (163, 16370), (221, 16490), (223, 16496), (275, 16562), (279, 16574), (308, 16631), (314, 16640), (338, 16676), (342, 16685), (355, 16706), (399, 16790), (429, 16865), (442, 16886), (500, 17009), (512, 17042),

Gene: Yinzer_16 Start: 13910, Stop: 14758, Start Num: 107

Candidate Starts for Yinzer_16:

(10, 13442), (54, 13823), (Start: 107 @13910 has 33 MA's), (114, 13916), (166, 14000), (196, 14051), (266, 14171), (308, 14258), (311, 14261), (318, 14273), (324, 14282), (338, 14309), (342, 14318), (355, 14339), (463, 14567), (531, 14723), (534, 14729),

Gene: Yndexa_42 Start: 28532, Stop: 29452, Start Num: 86

Candidate Starts for Yndexa_42:

(Start: 86 @28532 has 9 MA's), (137, 28613), (163, 28658), (205, 28727), (302, 28895), (356, 28979), (376, 29030), (397, 29063), (469, 29261), (476, 29279), (493, 29321), (529, 29411), (531, 29417), (540, 29438),

Gene: Yosif_20 Start: 15949, Stop: 16794, Start Num: 60

Candidate Starts for Yosif_20:

(Start: 60 @15949 has 92 MA's), (Start: 112 @16021 has 1 MA's), (124, 16039), (251, 16240), (274, 16270), (292, 16300), (304, 16327), (378, 16435), (381, 16441), (516, 16726), (542, 16783), (544, 16786),

Gene: YoureAdopted_21 Start: 15987, Stop: 17123, Start Num: 25

Candidate Starts for YoureAdopted_21:

(Start: 25 @15987 has 250 MA's), (Start: 68 @16104 has 6 MA's), (130, 16194), (141, 16215), (154, 16236), (168, 16263), (302, 16518), (352, 16599), (385, 16674), (392, 16689), (443, 16800), (461, 16842), (493, 16935), (503, 16959), (541, 17052), (549, 17091), (550, 17109),

Gene: Yuna_22 Start: 15278, Stop: 16414, Start Num: 25

Candidate Starts for Yuna_22:

(Start: 25 @15278 has 250 MA's), (Start: 68 @15395 has 6 MA's), (113, 15458), (168, 15554), (218, 15656), (275, 15755), (302, 15809), (352, 15890), (411, 16043), (427, 16067), (461, 16133), (462, 16136), (463, 16139), (493, 16226), (535, 16328), (541, 16343), (549, 16382), (550, 16400),

Gene: Yunkel11_22 Start: 15243, Stop: 16379, Start Num: 25

Candidate Starts for Yunkel11_22:

(Start: 25 @15243 has 250 MA's), (Start: 68 @15360 has 6 MA's), (130, 15450), (141, 15471), (168, 15519), (302, 15774), (352, 15855), (385, 15930), (392, 15945), (443, 16056), (461, 16098), (487, 16176), (493, 16191), (503, 16215), (541, 16308), (549, 16347), (550, 16365),

Gene: Yvonnetastic_44 Start: 29619, Stop: 30515, Start Num: 59

Candidate Starts for Yvonnetastic_44:

(Start: 59 @29619 has 3 MA's), (130, 29706), (166, 29772), (174, 29787), (176, 29793), (284, 29964), (315, 30021), (351, 30075), (362, 30099), (406, 30198), (411, 30216), (443, 30264), (454, 30282), (463, 30306), (529, 30474),

Gene: Zabiza_22 Start: 16018, Stop: 17154, Start Num: 25

Candidate Starts for Zabiza_22:

(Start: 25 @16018 has 250 MA's), (Start: 68 @16135 has 6 MA's), (130, 16225), (141, 16246), (154, 16267), (168, 16294), (302, 16549), (352, 16630), (385, 16705), (392, 16720), (443, 16831), (461, 16873), (493, 16966), (503, 16990), (541, 17083), (549, 17122), (550, 17140),

Gene: Zainub_21 Start: 15320, Stop: 16177, Start Num: 63

Candidate Starts for Zainub_21:

(Start: 63 @15320 has 55 MA's), (274, 15641), (289, 15677), (378, 15818), (471, 16013), (542, 16166), (544, 16169),

Gene: ZamZam_19 Start: 15956, Stop: 16813, Start Num: 61

Candidate Starts for ZamZam_19:

(Start: 61 @15956 has 4 MA's), (Start: 71 @15971 has 6 MA's), (84, 15992), (Start: 112 @16028 has 1 MA's), (138, 16070), (162, 16109), (275, 16280), (301, 16337), (361, 16436), (376, 16448), (378, 16454), (381, 16460), (463, 16628), (471, 16649), (531, 16778), (542, 16802), (544, 16805),

Gene: Zameen_18 Start: 16949, Stop: 17776, Start Num: 115

Candidate Starts for Zameen_18:

(Start: 115 @16949 has 37 MA's), (151, 17003), (166, 17030), (221, 17144), (223, 17150), (235, 17165), (311, 17288), (338, 17330), (342, 17339), (355, 17360), (399, 17444), (429, 17519), (500, 17663), (512, 17696),

Gene: Zanella_20 Start: 15341, Stop: 16234, Start Num: 69

Candidate Starts for Zanella_20:

(Start: 69 @15341 has 33 MA's), (133, 15434), (138, 15443), (182, 15521), (209, 15572), (235, 15632), (245, 15644), (274, 15686), (275, 15689), (276, 15695), (425, 15977), (426, 15980), (463, 16049), (471, 16070), (472, 16073), (503, 16133), (531, 16199),

Gene: Zarbodnamra_18 Start: 15786, Stop: 16652, Start Num: 68

Candidate Starts for Zarbodnamra_18:

(Start: 68 @15786 has 6 MA's), (Start: 72 @15792 has 26 MA's), (174, 15948), (215, 16029), (286, 16128), (352, 16236), (397, 16320), (492, 16521), (509, 16563),

Gene: Zavala_22 Start: 15992, Stop: 17128, Start Num: 25

Candidate Starts for Zavala_22:

(Start: 25 @15992 has 250 MA's), (Start: 68 @16109 has 6 MA's), (130, 16199), (141, 16220), (154, 16241), (168, 16268), (302, 16523), (352, 16604), (385, 16679), (392, 16694), (443, 16805), (461, 16847), (493, 16940), (503, 16964), (541, 17057), (549, 17096), (550, 17114),

Gene: Zemlya_20 Start: 14993, Stop: 15850, Start Num: 60

Candidate Starts for Zemlya_20:

(Start: 60 @14993 has 92 MA's), (Start: 112 @15065 has 1 MA's), (162, 15146), (218, 15251), (245, 15278), (374, 15482), (376, 15485), (378, 15491), (408, 15563), (436, 15620), (471, 15686), (542, 15839), (544, 15842),

Gene: ZiggyZoo_17 Start: 15583, Stop: 16443, Start Num: 72

Candidate Starts for ZiggyZoo_17:

(Start: 68 @15577 has 6 MA's), (Start: 72 @15583 has 26 MA's), (174, 15739), (215, 15820), (286, 15919), (352, 16027), (397, 16111), (425, 16177), (454, 16222), (492, 16312), (509, 16354),

Gene: Zilla_18 Start: 15810, Stop: 16670, Start Num: 70

Candidate Starts for Zilla_18:

(Start: 70 @15810 has 24 MA's), (Start: 85 @15825 has 1 MA's), (153, 15927), (174, 15966), (215, 16047), (279, 16131), (286, 16146), (352, 16254), (397, 16338), (425, 16404), (427, 16410), (492, 16539), (503, 16566), (509, 16581),

Gene: Zion_33 Start: 28461, Stop: 29327, Start Num: 66

Candidate Starts for Zion_33:

(Start: 66 @28461 has 131 MA's), (82, 28485), (Start: 118 @28530 has 1 MA's), (152, 28590), (173, 28629), (219, 28725), (327, 28887), (348, 28920), (395, 28995), (402, 29019), (479, 29160), (493, 29196), (505, 29223), (525, 29280),

Gene: Zirinka_18 Start: 16952, Stop: 17779, Start Num: 115

Candidate Starts for Zirinka_18:

(Start: 115 @16952 has 37 MA's), (151, 17006), (166, 17033), (221, 17147), (223, 17153), (235, 17168), (311, 17291), (338, 17333), (342, 17342), (399, 17447), (429, 17522), (442, 17543), (500, 17666), (512, 17699),

Gene: ZoMa_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for ZoMa_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: ZoeJ_18 Start: 13830, Stop: 14957, Start Num: 28

Candidate Starts for ZoeJ_18:

(Start: 28 @13830 has 36 MA's), (32, 13839), (Start: 68 @13941 has 6 MA's), (130, 14031), (154, 14073), (155, 14076), (168, 14100), (217, 14199), (253, 14262), (275, 14301), (302, 14355), (351, 14433), (383, 14508), (411, 14586), (425, 14604), (443, 14634), (461, 14676), (462, 14679), (493, 14769), (503, 14793), (535, 14871), (541, 14886), (549, 14925), (550, 14943),

Gene: Zombie_17 Start: 15477, Stop: 16649, Start Num: 25

Candidate Starts for Zombie_17:

(7, 15144), (Start: 25 @15477 has 250 MA's), (Start: 68 @15597 has 6 MA's), (Start: 79 @15615 has 5 MA's), (113, 15660), (116, 15666), (152, 15729), (171, 15765), (210, 15834), (211, 15837), (217, 15858), (247, 15912), (275, 15957), (292, 15987), (351, 16089), (358, 16101), (362, 16113), (368, 16131), (425, 16296), (443, 16326), (451, 16344), (461, 16368), (505, 16488), (541, 16578), (547, 16611),

Gene: Zucker_19 Start: 14495, Stop: 15337, Start Num: 100

Candidate Starts for Zucker_19:

(Start: 58 @14426 has 10 MA's), (64, 14435), (75, 14453), (76, 14456), (Start: 83 @14471 has 6 MA's), (Start: 100 @14495 has 5 MA's), (101, 14498), (140, 14552), (157, 14582), (161, 14588), (181, 14627), (198, 14654), (200, 14657), (207, 14672), (230, 14720), (256, 14762), (265, 14780), (285, 14825), (302, 14861), (304, 14864), (319, 14888), (371, 14981), (399, 15026), (408, 15059), (424, 15089), (436, 15116), (441, 15128), (451, 15149), (467, 15176), (494, 15206), (513, 15260), (515, 15266), (521, 15278),

Gene: phiCAM_20 Start: 17629, Stop: 18483, Start Num: 62

Candidate Starts for phiCAM_20:

(Start: 62 @17629 has 21 MA's), (84, 17665), (Start: 112 @17701 has 1 MA's), (124, 17719), (138, 17743), (188, 17836), (218, 17887), (304, 18019), (361, 18106), (376, 18118), (378, 18124), (390, 18148), (463, 18298), (471, 18319), (531, 18448), (542, 18472), (544, 18475),

Gene: phiHau3_21 Start: 15666, Stop: 16520, Start Num: 63

Candidate Starts for phiHau3_21:

(19, 15513), (Start: 63 @15666 has 55 MA's), (138, 15780), (162, 15819), (219, 15927), (264, 15969), (289, 16023), (458, 16326), (542, 16509), (544, 16512), (545, 16515),