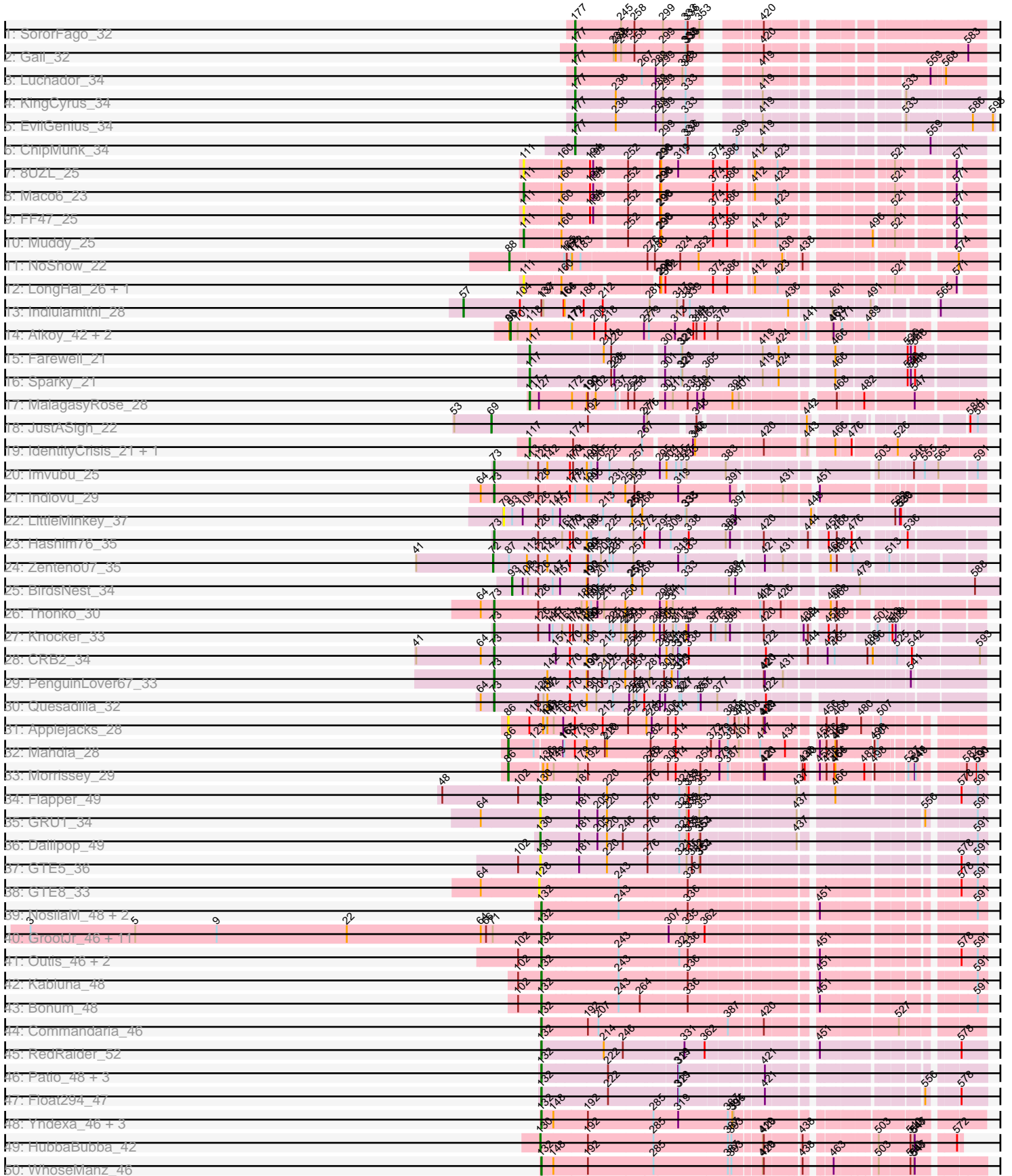
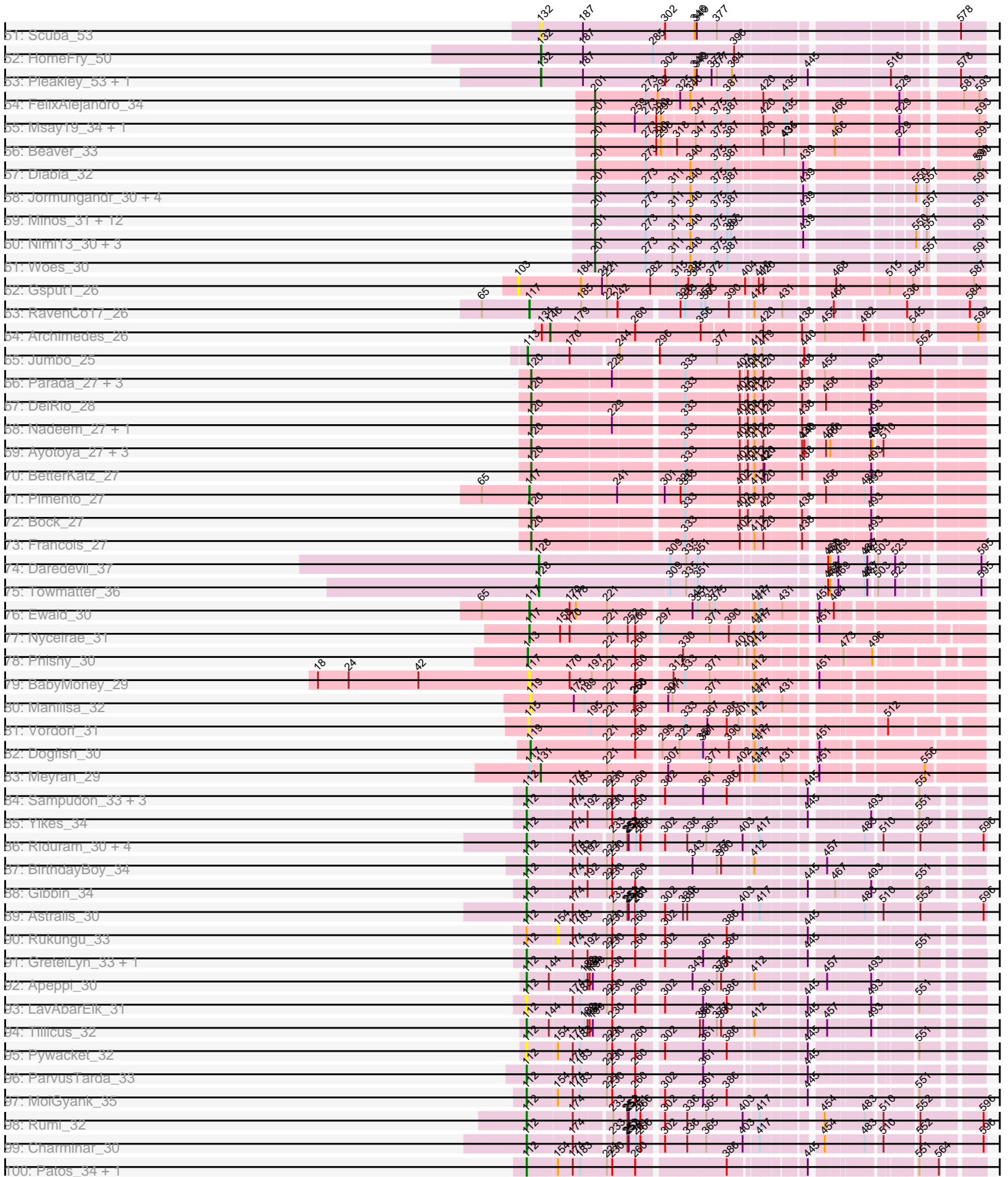


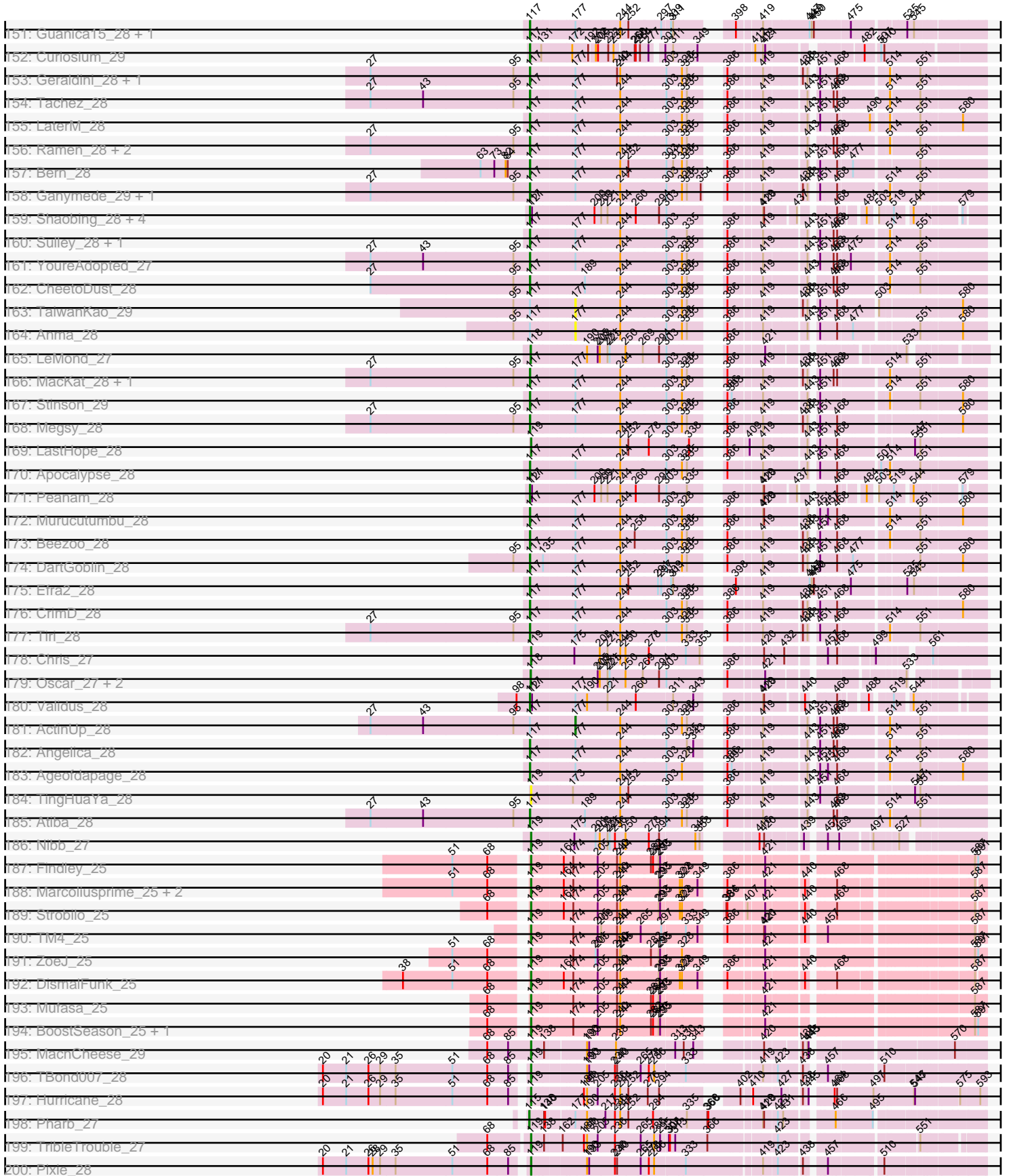
Zoomed Pham 311045



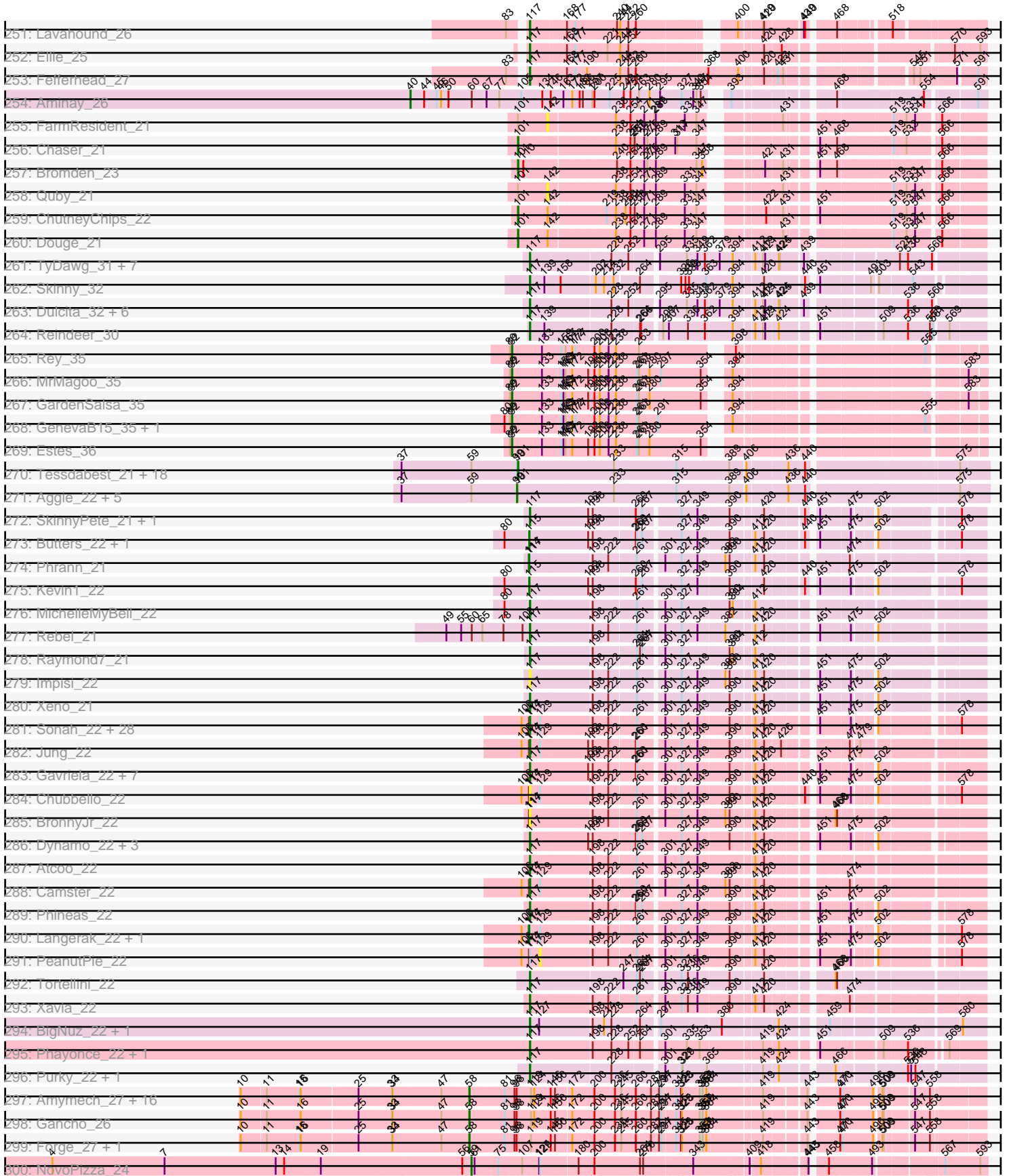
Zoomed Pham 311045



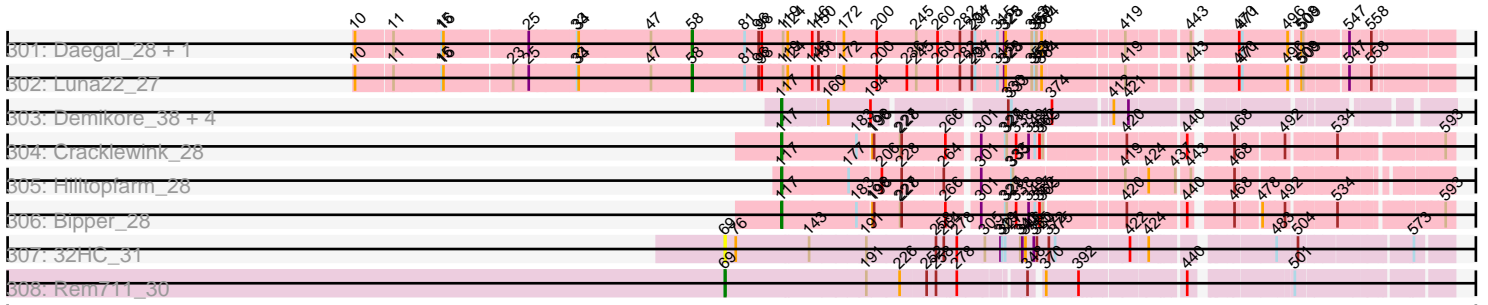
Zoomed Pham 311045



Zoomed Pham 311045



Zoomed Pham 311045



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 311045 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311045 has 574 members, 64 are drafts.

Phages represented in each track:

- Track 1 : SororFago_32
- Track 2 : Gail_32
- Track 3 : Luchador_34
- Track 4 : KingCyrus_34
- Track 5 : EvilGenius_34
- Track 6 : ChipMunk_34
- Track 7 : 8UZL_25
- Track 8 : Maco6_23
- Track 9 : FF47_25
- Track 10 : Muddy_25
- Track 11 : NoShow_22
- Track 12 : LongHai_26, Salvus_26
- Track 13 : Indlulamithi_28
- Track 14 : Aikoy_42, Onyinye_43, Leopard_42
- Track 15 : Farewell_21
- Track 16 : Sparky_21
- Track 17 : MalagasyRose_28
- Track 18 : JustASigh_22
- Track 19 : IdentityCrisis_21, WST1_22
- Track 20 : Imvubu_25
- Track 21 : Indlovu_29
- Track 22 : LittleMinkey_37
- Track 23 : Hashim76_35
- Track 24 : Zenteno07_35
- Track 25 : BirdsNest_34
- Track 26 : Thonko_30
- Track 27 : Knocker_33
- Track 28 : CRB2_34
- Track 29 : PenguinLover67_33
- Track 30 : Quesadilla_32
- Track 31 : Applejacks_28
- Track 32 : Mahdia_28
- Track 33 : Morrissey_29
- Track 34 : Flapper_49
- Track 35 : GRU1_34
- Track 36 : Dalilpop_49
- Track 37 : GTE5_36

- Track 38 : GTE8_33
- Track 39 : NosilaM_48, Buggaboo_46, SuperSulley_46
- Track 40 : GrootJr_46, Emianna_44, Kurt_44, NovumRegina_44, Tracker_44, Arti_44, NatB6_44, KidneyBean_44, Phomeo_43, Foxboro_45, Wheezy_44, Jifall16_43
- Track 41 : Outis_46, MerCougar_46, StarStruck_46
- Track 42 : Kabluna_48
- Track 43 : Bonum_48
- Track 44 : Commandaria_46
- Track 45 : RedRaider_52
- Track 46 : Patio_48, Skysand_47, Ennea_51, Lollipop1437_50
- Track 47 : Float294_47
- Track 48 : Yndexa_46, BiPauneto_47, Sukkupi_46, Pemberton_48
- Track 49 : HubbaBubba_42
- Track 50 : WhoseManz_46
- Track 51 : Scuba_53
- Track 52 : HomeFry_50
- Track 53 : Pleakley_53, Fury_53
- Track 54 : FelixAlejandro_34
- Track 55 : Msay19_34, Poland_34
- Track 56 : Beaver_33
- Track 57 : Diabla_32
- Track 58 : Jormungandr_30, Damp_30, Luker_31, Harambe_30, Lahirium_30
- Track 59 : Minos_31, Bianmat_30, GalacticEye_30, Lidong_30, Hello_30, Kaseim_30, Newt_31, Charianelly_30, Teal_30, Shelley_30, Jams_30, Berries_30, MrWormie_30
- Track 60 : Nimi13_30, Neoevie_30, Hail2Pitt_30, Anamika_30
- Track 61 : Woes_30
- Track 62 : Gspu1_26
- Track 63 : RavenCo17_26
- Track 64 : Archimedes_26
- Track 65 : Jumbo_25
- Track 66 : Parada_27, Brylie_27, Mulch_27, NancyRae_27
- Track 67 : DelRio_28
- Track 68 : Nadeem_27, WheatThin_27
- Track 69 : Ayotoya_27, Hamood_27, Chop_27, GrandSlam_27
- Track 70 : BetterKatz_27
- Track 71 : Pimento_27
- Track 72 : Bock_27
- Track 73 : Francois_27
- Track 74 : Daredevil_37
- Track 75 : Towmatter_36
- Track 76 : Ewald_30
- Track 77 : Nyceirae_31
- Track 78 : Phishy_30
- Track 79 : BabyMoney_29
- Track 80 : Manilisa_32
- Track 81 : Vordorf_31
- Track 82 : Dogfish_30
- Track 83 : Meyran_29
- Track 84 : Sampudon_33, Jalebi_32, GOATification_34, Fulcrum_34
- Track 85 : Yikes_34

- Track 86 : Riduram_30, Jamemuya19_30, NovaSharks_32, Alyssamiracle_33, RazorC_31
- Track 87 : BirthdayBoy_34
- Track 88 : Gibbin_34
- Track 89 : Astralis_30
- Track 90 : Rukungu_33
- Track 91 : GretelLyn_33, OtterstedtS21_33
- Track 92 : Apeppi_30
- Track 93 : LavAbarElk_31
- Track 94 : Tillicus_32
- Track 95 : Pywacket_32
- Track 96 : ParvusTarda_33
- Track 97 : MoiGyank_35
- Track 98 : Rumi_32
- Track 99 : Charminar_30
- Track 100 : Patos_34, NorManre_34
- Track 101 : Erutan_33
- Track 102 : LuckyLeo_32
- Track 103 : Mima20_31
- Track 104 : Rota_32
- Track 105 : DaviePasture_33
- Track 106 : Ranch_33
- Track 107 : Zany_32
- Track 108 : Wojtek_32
- Track 109 : Lambo_33
- Track 110 : Avian_30, Stormer_32
- Track 111 : DoobyDoo_32
- Track 112 : Alephilan_30
- Track 113 : Lila22_32
- Track 114 : Genamy16_33
- Track 115 : Zodiariah_22
- Track 116 : DumpsterDude_23
- Track 117 : Sprinklemunch_22
- Track 118 : MakCheese_24
- Track 119 : LordVader_21
- Track 120 : Okabe_21, Bluvara_22
- Track 121 : Cambiare_24
- Track 122 : Avocado_23
- Track 123 : Pace1224_23
- Track 124 : GodSpeed_24
- Track 125 : FlagStaff_23
- Track 126 : Pinnie_24
- Track 127 : MOOREtheMARYer_24
- Track 128 : Cloudyecho_23
- Track 129 : Lemuria_24
- Track 130 : Mercurio_25
- Track 131 : Antsirabe_23
- Track 132 : DrLupo_39
- Track 133 : Barnyard_37
- Track 134 : Sbash_21
- Track 135 : Mdavu_24, Enkosi_24, Amelie_24, Nikao_24, LilPharaoh_24, Binglebops_24, Torres_24, SgtBeansprout_24, Nutello_24

- Track 136 : Durfee_28, Piatt_28, Asayake_28, AlishaPH_28, Pokerus_27, Boiiii_28, Hyperbowlee_28, Padfoot_28, CaseJules_28, BaghaKamala_28, BEEST_28, Blizzard_28, Homura_28, ShiaSurprise_28
- Track 137 : MarkPheW_28
- Track 138 : Teejan_24, Trice_24
- Track 139 : Chavito_28
- Track 140 : Joy99_28, Capricorn_28, Dalmuri_28, Jeckyll_28, BGlluviae_28, CallaLilly_28, Inky_28, Belladonna_28, Peel_28, Llorens_28, Rosmarinus_28, Jarvi_28, Spock_28, Twitch_28, Topper_28, CREW_28, Lunahalos_28
- Track 141 : Bella96_28
- Track 142 : DrHayes_28, Urkel_28, SamuelLPlaqson_28
- Track 143 : Adonis_28
- Track 144 : TiniBug_28
- Track 145 : Zavala_28, Mynx_28, Emerson_28, TruffulaTree_28, Padpat_28
- Track 146 : HedwigODU_28, Veliki_28, Zabiza_28, Rapunzel97_28, Jayhawk_28, Slimphazie_28, Adephagia_28
- Track 147 : TreyKay_28, Prithvi_28, LindNT_28
- Track 148 : Anaya_29
- Track 149 : Illumine_28, Devera_28, Dole_28
- Track 150 : Pisa4_27, Pisa1_27
- Track 151 : Guanica15_28, Yunkel11_28
- Track 152 : Curiosium_29
- Track 153 : Geraldini_28, MeaningOfLife_28
- Track 154 : Tachez_28
- Track 155 : LaterM_28
- Track 156 : Ramen_28, BarrelRoll_28, JAWS_28
- Track 157 : Bern_28
- Track 158 : Ganymede_29, QuincyRose_27
- Track 159 : Shaobing_28, Dartin_28, McMater_28, Richo_28, Niklas_28
- Track 160 : Sulley_28, Deby_28
- Track 161 : YoureAdopted_27
- Track 162 : CheetoDust_28
- Track 163 : TaiwanKao_29
- Track 164 : Anma_28
- Track 165 : LeMond_27
- Track 166 : MacKat_28, Clipper_28
- Track 167 : Stinson_29
- Track 168 : Megsy_28
- Track 169 : LastHope_28
- Track 170 : Apocalypse_28
- Track 171 : Peanam_28
- Track 172 : Murucutumbu_28
- Track 173 : Beezoo_28
- Track 174 : DartGoblin_28
- Track 175 : Efra2_28
- Track 176 : CrimD_28
- Track 177 : Tiri_28
- Track 178 : Chris_27
- Track 179 : Oscar_27, Scarlett_27, KiSi_27
- Track 180 : Validus_28
- Track 181 : ActinUp_28
- Track 182 : Angelica_28
- Track 183 : Ageofdapage_28

- Track 184 : TingHuaYa_28
- Track 185 : Atiba_28
- Track 186 : Nibb_27
- Track 187 : Findley_25
- Track 188 : Marcoliusprime_25, Milly_25, DismalStressor_25
- Track 189 : Strobilo_25
- Track 190 : TM4_25
- Track 191 : ZoeJ_25
- Track 192 : DismalFunk_25
- Track 193 : Mufasa_25
- Track 194 : BoostSeason_25, Doughnut_25
- Track 195 : MacnCheese_29
- Track 196 : TBond007_28
- Track 197 : Hurricane_28
- Track 198 : Pharb_27
- Track 199 : TripleTrouble_27
- Track 200 : Pixie_28
- Track 201 : Keshu_28
- Track 202 : ShedlockHolmes_28, Lea83_28
- Track 203 : Bobquesha_30
- Track 204 : Juliette_30, Ruthiejr_29
- Track 205 : Lebo14_29
- Track 206 : Kraw_29, Fionnbharth_29, Y10_29, JF1_29, Y2_29
- Track 207 : SamScheppers_27, Eponine_29
- Track 208 : DanSyl44_30
- Track 209 : Reptar3000_29
- Track 210 : MissDaisy_29
- Track 211 : Slarp_29, Cheetobro_29, Chancellor_29, Qhanda_30
- Track 212 : Mitti_29
- Track 213 : OmniCritical_29
- Track 214 : Patt_29
- Track 215 : YasnayaPolyana_29
- Track 216 : Wintermute_29
- Track 217 : Malthus_30
- Track 218 : Taquito_27
- Track 219 : Larva_28, Dadosky_28, Neighly_28, Psycho_28, AlleyCat_28
- Track 220 : Rando14_28
- Track 221 : Miryou_27
- Track 222 : Leston_27, Heftyboy_27, Paola_27, Guillsminger_27, SoSeph_27
- Track 223 : Gengar_27
- Track 224 : Collard_27, BananenDer11_27, ViviJ_26, Agent47_27, LilDirt_26, DoubleChamp_27, InvictusManeo_27
- Track 225 : Feyre_27
- Track 226 : OkiRoe_27
- Track 227 : Waterfoul_27
- Track 228 : Kratio_26
- Track 229 : Omnicron_28
- Track 230 : Thyatira_27
- Track 231 : Edugator_27
- Track 232 : Ekdilam_25
- Track 233 : Bryler_28, Phrank_28, Cain_28
- Track 234 : Shadow1_27
- Track 235 : Amohnition_27

- Track 236 : Unicorn_28, PhelpsODU_28
- Track 237 : Krueger_28, Tigress9_28
- Track 238 : DarthP_27
- Track 239 : Tierra_28
- Track 240 : Marshawn_29
- Track 241 : Hammy_27
- Track 242 : Applecrisp_26
- Track 243 : Syra333_28
- Track 244 : TClif_28
- Track 245 : Ximenita_29
- Track 246 : Yuna_29
- Track 247 : Sunflower1121_27
- Track 248 : November_26
- Track 249 : Amgine_26
- Track 250 : SirPhilip_27
- Track 251 : Lavahound_26
- Track 252 : Ellie_25
- Track 253 : Fefferhead_27
- Track 254 : Aminay_26
- Track 255 : FarmResident_21
- Track 256 : Chaser_21
- Track 257 : Bromden_23
- Track 258 : Quby_21
- Track 259 : ChutneyChips_22
- Track 260 : Douge_21
- Track 261 : TyDawg_31, LilhomieP_30, FreakyGoo_32, Bongo_31, TpudiCK_32, Bricole_31, IPHane7_31, PegLeg_31
- Track 262 : Skinny_32
- Track 263 : Dulcita_32, Auspice_31, Diminimus_32, SlimJimmy_30, Izel_32, Glaske16_32, KleverKiS_31
- Track 264 : Reindeer_30
- Track 265 : Rey_35
- Track 266 : MrMagoo_35
- Track 267 : GardenSalsa_35
- Track 268 : GenevaB15_35, Aziz_35
- Track 269 : Estes_36
- Track 270 : Tessdabest_21, Schnauzer_22, Silvy_22, Magsby_22, Duplicity_22, Journey_22, Xerxes_22, Tapioca_22, Melville_22, Gex_22, MulchSalad_20, EGUnicorn_22, Chewbacca_22, Silvafighter_22, Parmesanjohn_22, Cubone_22, LilSpotty_25, Tortoise12_22, Smurph_22
- Track 271 : Aggie_22, Philonius_22, Bosection6_22, Charlie_22, Carcharodon_22, Pipsqueaks_22
- Track 272 : SkinnyPete_21, Panchino_21
- Track 273 : Butters_22, Rubeelu_22
- Track 274 : Phrann_21
- Track 275 : Kevin1_22
- Track 276 : MichelleMyBell_22
- Track 277 : Rebel_21
- Track 278 : Raymond7_21
- Track 279 : Impisi_22
- Track 280 : Xeno_21
- Track 281 : Sonah_22, Ksquared_22, Phegasus_22, Fishburne_22, Techage_22, Bhagsy_22, Brusacoram_22, Jebeks_22, Etoile_22, Zilizebeth_22, Kari_22,

Juniormint_22, Bartholomew_22, Venti_22, Polkaroo_22, Mangethe_22, Necropolis_22, Majeke_22, HUHilltop_22, Vidya_22, FirstPlacePfu_22, HC_22, Babsiella_22, StevieRay_22, Bunnies_22, Donovan_22, Thespis_22, Arib1_22, GaloreK_22

- Track 282 : Jung_22
- Track 283 : Gavriela_22, CactusJack_22, StressBall_22, Glaske_22, Shweta_21, Megiddo_22, KilKor_22, Phalm_22
- Track 284 : Chubbello_22
- Track 285 : BronnyJr_22
- Track 286 : Dynamo_22, Andies_21, Willsammy_22, Scitech_21
- Track 287 : Atcoo_22
- Track 288 : Camster_22
- Track 289 : Phineas_22
- Track 290 : Langerak_22, Malithi_22
- Track 291 : PeanutPie_22
- Track 292 : Tortellini_22
- Track 293 : Xavia_22
- Track 294 : BigNuz_22, Nazo_22
- Track 295 : Phayonce_22, ThulaThula_22
- Track 296 : Purky_22, Che9c_21
- Track 297 : Amymech_27, Giles_27, LilHazelNut_27, Webster2_27, Kinbote_27, BloominB_27, Gravaiilia_27, Hadrien_27, Evanesce_27, HH92_27, Wishmaker_27, Ein37_27, Dewey_27, Hail_27, Ubuntu_27, DeepSoil15_27, OBUpride_27
- Track 298 : Gancho_26
- Track 299 : Forge_27, Luke_27
- Track 300 : NovoPizza_24
- Track 301 : Daegal_28, Amochick_27
- Track 302 : Luna22_27
- Track 303 : Demikore_38, Patience_38, SuperSonics_37, Labelle_37, Madrugua_36
- Track 304 : Cracklewink_28
- Track 305 : Hilltopfarm_28
- Track 306 : Bipper_28
- Track 307 : 32HC_31
- Track 308 : Rem711_30

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

The start number called the most often in the published annotations is 117, it was called in 228 of the 510 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adephagia_28, Agent47_27, Ageofdapage_28, AlishaPH_28, AlleyCat_28, Amgine_26, Amohnition_27, Andies_21, Angelica_28, Apocalypse_28, Applecrisp_26, Arib1_22, Asayake_28, Atcoo_22, Atiba_28, Auspice_31, BEEST_28, BGlluviae_28, Babsiella_22, BabyMoney_29, BaghaKamala_28, BananenDer11_27, BarrelRoll_28, Bartholomew_22, Beezoo_28, Bella96_28, Belladonna_28, Bern_28, Bhagsy_22, BigNuz_22, Bipper_28, Blizzard_28, Bluvara_22, Bobquesha_30, Boiiii_28, Bongo_31, Bricole_31, BronnyJr_22, Brusacoram_22, Bunnies_22, CREW_28, CactusJack_22, CallaLilly_28, Camster_22, Capricorn_28, CaseJules_28, Chancellor_29, Che9c_21, CheetoDust_28, Cheetobro_29,

Chubbello_22, Clipper_28, Collard_27, Cracklewink_28, CrimD_28, Curiosium_29, Dadosky_28, Dalmuri_28, DanSyl44_30, DartGoblin_28, DarthP_27, Dartin_28, Deby_28, Demikore_38, Devera_28, Diminimus_32, Dole_28, Donovan_22, DoubleChamp_27, DrHayes_28, Dulcita_32, DumpsterDude_23, Durfee_28, Dynamo_22, Edugator_27, Efra2_28, Ekdilam_25, Ellie_25, Emerson_28, Etoile_22, Ewald_30, Farewell_21, Fefferhead_27, Feyre_27, Fionnbharth_29, FirstPlacePfu_22, Fishburne_22, FreakyGoo_32, GaloreK_22, Ganymede_29, Gavriela_22, Gengar_27, Geraldini_28, Glaske16_32, Glaske_22, Guanica15_28, Guillsminger_27, HC_22, HUHilltop_22, Hammy_27, HedwigODU_28, Heftyboy_27, Hilltopfarm_28, Homura_28, Hyperbowlee_28, IPhane7_31, IdentityCrisis_21, Illumine_28, Impisi_22, Inky_28, InvictusManeo_27, Izel_32, JAWS_28, JF1_29, Jarvi_28, Jayhawk_28, Jebeks_22, Jeckyll_28, Joy99_28, Jung_22, Juniormint_22, Kari_22, KilKor_22, KleverKiS_31, Kratio_26, Kraw_29, Ksquared_22, Labelle_37, Larva_28, LaterM_28, Lavahound_26, Lebo14_29, Leston_27, LilDirt_26, LilhomieP_30, LindNT_28, Llorens_28, LordVader_21, Lunahalos_28, MacKat_28, Madrug_36, Majeke_22, MalagasyRose_28, Malthus_30, Mangethe_22, McMater_28, MeaningOfLife_28, Megiddo_22, Megsy_28, MichelleMyBell_22, Miryou_27, MissDaisy_29, Mitti_29, Murucutumbu_28, Mynx_28, Nazo_22, Necropolis_22, Neighly_28, Niklas_28, November_26, Nyceirae_31, Okabe_21, OkiRoe_27, OmniCritical_29, Omnicron_28, Padfoot_28, Padpat_28, Panchino_21, Paola_27, Patience_38, Patt_29, Peanam_28, Peel_28, PegLeg_31, Phalm_22, Phayonce_22, Phegasus_22, Phineas_22, Piatt_28, Pimento_27, Pisa1_27, Pisa4_27, Pokerus_27, Polkaroo_22, Prithvi_28, Psycho_28, Purky_22, Qhanda_30, QuincyRose_27, Ramen_28, Rando14_28, Rapunzel97_28, RavenCo17_26, Raymond7_21, Rebel_21, Reindeer_30, Reptar3000_29, Richo_28, Rosmarinus_28, SamuelLPlaqson_28, Sbash_21, Scitech_21, Shaobing_28, ShiaSurprise_28, Shweta_21, SkinnyPete_21, Skinny_32, Slarp_29, SlimJimmy_30, Slimphazie_28, SoSeph_27, Sonah_22, Sparky_21, Spock_28, StevieRay_22, Stinson_29, StressBall_22, Sulley_28, SuperSonics_37, TClif_28, Tachez_28, Techage_22, Thespis_22, ThulaThula_22, Thyatira_27, TiniBug_28, Tiri_28, Topper_28, Tortellini_22, TpudiCK_32, TreyKay_28, TruffulaTree_28, Twitch_28, TyDawg_31, Urkel_28, Validus_28, Veliki_28, Venti_22, Vidya_22, ViviJ_26, WST1_22, Waterfoul_27, Willsammy_22, Wintermute_29, Xavia_22, Xeno_21, Y10_29, Y2_29, YoureAdopted_27, Yuna_29, Yunkel11_28, Zabiza_28, Zavala_28, Zilizebeth_22,

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

- ActinUp_28, Adonis_28, Anaya_29, Anma_28, Eponine_29, Langerak_22, Malithi_22, Meyran_29, PeanutPie_22, Phrann_21, SamScheppers_27, TaiwanKao_29, Taquito_27, YasnayaPolyana_29,

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

- 32HC_31, 8UZL_25, Aggie_22, Aikoy_42, Alephilan_30, Alyssamiracle_33, Amelie_24, Aminay_26, Amochick_27, Amymech_27, Anamika_30, Antsirabe_23, Apeppi_30, Applejacks_28, Archimedes_26, Arti_44, Astralis_30, Avian_30, Avocado_23, Ayotoya_27, Aziz_35, Barnyard_37, Beaver_33, Berries_30, BetterKatz_27, BiPauneto_47, Bianmat_30, Binglebops_24, BirdsNest_34, BirthdayBoy_34, BloominB_27, Bock_27, Bonum_48, BoostSeason_25, Bosection6_22, Bromden_23, Bryler_28, Brylie_27, Buggaboo_46, Butters_22, CRB2_34, Cain_28, Cambiare_24, Carcharodon_22, Charianelly_30, Charlie_22, Charminar_30, Chaser_21, Chavito_28, Chewbacca_22, ChipMunk_34, Chop_27, Chris_27, ChutneyChips_22, Cloudyecho_23, Commandaria_46, Cubone_22, Daegal_28, Dalilpop_49, Damp_30, Daredevil_37, DaviePasture_33, DeepSoil15_27, DelRio_28, Dewey_27, Diabla_32, DismalFunk_25, DismalStressor_25, Dogfish_30,

DoobyDoo_32, Douge_21, Doughnut_25, DrLupo_39, Duplicity_22, EGUunicorn_22, Ein37_27, Emianna_44, Enkosi_24, Ennea_51, Erutan_33, Estes_36, Evanesce_27, EvilGenius_34, FF47_25, FarmResident_21, FelixAlejandro_34, Findley_25, FlagStaff_23, Flapper_49, Float294_47, Forge_27, Foxboro_45, Francois_27, Fulcrum_34, Fury_53, GOATification_34, GRU1_34, GTE5_36, GTE8_33, Gail_32, GalacticEye_30, Gancho_26, GardenSalsa_35, Genamy16_33, GenevaB15_35, Gex_22, Gibbin_34, Giles_27, GodSpeed_24, GrandSlam_27, Gravaiilla_27, Gretellyn_33, GrootJr_46, Gspu1_26, HH92_27, Hadrien_27, Hail2Pitt_30, Hail_27, Hamood_27, Harambe_30, Hashim76_35, Hello_30, HomeFry_50, HubbaBubba_42, Hurricane_28, Imvubu_25, Indlovu_29, Indlulamithi_28, Jalebi_32, Jamemuya19_30, Jams_30, Jifall16_43, Jormungandr_30, Journey_22, Juliette_30, Jumbo_25, JustASigh_22, Kabluna_48, Kaseim_30, Keshu_28, Kevin1_22, KiSi_27, KidneyBean_44, Kinbote_27, KingCyrus_34, Knocker_33, Krueger_28, Kurt_44, Lahirium_30, Lambo_33, LastHope_28, LavAbarElk_31, LeMond_27, Lea83_28, Lemuria_24, Leopard_42, Lidong_30, LilHazelNut_27, LilPharaoh_24, LilSpotty_25, Lila22_32, LittleMinkey_37, Lollipop1437_50, LongHai_26, Luchador_34, LuckyLeo_32, Luke_27, Luker_31, Luna22_27, MOOREtheMARYer_24, MacnCheese_29, Maco6_23, Magsby_22, Mahdia_28, MakCheese_24, Manilisa_32, Marcoliusprime_25, MarkPhew_28, Marshawn_29, Mdavu_24, Melville_22, MerCougar_46, Mercurio_25, Milly_25, Mima20_31, Minos_31, MoiGyank_35, Morrissey_29, MrMagoo_35, MrWormie_30, Msay19_34, Muddy_25, Mufasa_25, MulchSalad_20, Mulch_27, Nadeem_27, NancyRae_27, NatB6_44, Neovie_30, Newt_31, Nibb_27, Nikao_24, Nimi13_30, NoShow_22, NorManre_34, NosilaM_48, NovaSharks_32, NovoPizza_24, NovumRegina_44, Nutello_24, OBUpride_27, Onyinye_43, Oscar_27, OtterstedtS21_33, Outis_46, Pace1224_23, Parada_27, Parmesanjohn_22, ParvusTarda_33, Patio_48, Patos_34, Pemberton_48, PenguinLover67_33, Pharb_27, PhelpsODU_28, Philonius_22, Phishy_30, Phomeo_43, Phrank_28, Pinnie_24, Pipsqueaks_22, Pixie_28, Pleakley_53, Poland_34, Pywacket_32, Quby_21, Quesadilla_32, Ranch_33, RazorC_31, RedRaider_52, Rem711_30, Rey_35, Riduram_30, Rota_32, Rubeelu_22, Rukungu_33, Rumi_32, Ruthiejr_29, Salvus_26, Sampudon_33, Scarlett_27, Schnauzer_22, Scuba_53, SgtBeansprout_24, Shadow1_27, ShedlockHolmes_28, Shelley_30, Silvafighter_22, Silvy_22, SirPhilip_27, Skysand_47, Smurph_22, SororFago_32, Sprinklemunch_22, StarStruck_46, Stormer_32, Strobilo_25, Sukkupi_46, Sunflower1121_27, SuperSulley_46, Syra333_28, TBond007_28, TM4_25, Tapioca_22, Teal_30, Teejan_24, Tessdabest_21, Thonko_30, Tierra_28, Tigress9_28, Tillicus_32, TingHuaYa_28, Torres_24, Tortoise12_22, Towmatter_36, Tracker_44, TribbleTrouble_27, Trice_24, Ubuntu_27, Unicorn_28, Vordorf_31, Webster2_27, WheatThin_27, Wheezy_44, WhoseManz_46, Wishmaker_27, Woes_30, Wojtek_32, Xerxes_22, Ximenita_29, Yikes_34, Yndexa_46, Zany_32, Zenteno07_35, Zodiariah_22, ZoeJ_25,

Summary by start number:

Start 40:

- Found in 1 of 574 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay_26 (K7),

Start 52:

- Found in 1 of 574 (0.2%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chavito_28 (K1),

Start 57:

- Found in 1 of 574 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlulamithi_28 (AC),

Start 58:

- Found in 23 of 574 (4.0%) of genes in pham
- Manual Annotations of this start: 22 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amochick_27 (Q), Amymech_27 (Q), BloominB_27 (Q), Daegal_28 (Q), DeepSoil15_27 (Q), Dewey_27 (Q), Ein37_27 (Q), Evanesce_27 (Q), Forge_27 (Q), Gancho_26 (Q), Giles_27 (Q), Gravaillia_27 (Q), HH92_27 (Q), Hadrien_27 (Q), Hail_27 (Q), Kinbote_27 (Q), LilHazelNut_27 (Q), Luke_27 (Q), Luna22_27 (Q), OBUpride_27 (Q), Ubuntu_27 (Q), Webster2_27 (Q), Wishmaker_27 (Q),

Start 59:

- Found in 26 of 574 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 510
- Called 3.8% of time when present
- Phage (with cluster) where this start called: NovoPizza_24 (Q),

Start 69:

- Found in 3 of 574 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_31 (Z), JustASigh_22 (AH), Rem711_30 (Z),

Start 72:

- Found in 1 of 574 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zenteno07_35 (B13),

Start 73:

- Found in 9 of 574 (1.6%) of genes in pham
- Manual Annotations of this start: 8 of 510
- Called 88.9% of time when present
- Phage (with cluster) where this start called: CRB2_34 (B9), Hashim76_35 (B13), Imvubu_25 (B10), Indlovu_29 (B11), Knocker_33 (B9), PenguinLover67_33 (B9), Quesadilla_32 (B9), Thonko_30 (B8),

Start 74:

- Found in 5 of 574 (0.9%) of genes in pham
- Manual Annotations of this start: 5 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_23 (G5), Avocado_23 (G2), Cambiare_24 (G2), Lemuria_24 (G4), Mercurio_25 (G4),

Start 79:

- Found in 3 of 574 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: LittleMinkey_37 (B13),

Start 86:

- Found in 3 of 574 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Applejacks_28 (CD), Mahdia_28 (CD), Morrissey_29 (CD),

Start 88:

- Found in 4 of 574 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 510
- Called 25.0% of time when present
- Phage (with cluster) where this start called: NoShow_22 (AB),

Start 90:

- Found in 3 of 574 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aikoy_42 (AE), Leopard_42 (AE), Onyinye_43 (AE),

Start 92:

- Found in 6 of 574 (1.0%) of genes in pham
- Manual Annotations of this start: 6 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aziz_35 (M2), Estes_36 (M2), GardenSalsa_35 (M2), GenevaB15_35 (M2), MrMagoo_35 (M2), Rey_35 (M2),

Start 93:

- Found in 8 of 574 (1.4%) of genes in pham
- Manual Annotations of this start: 4 of 510
- Called 87.5% of time when present
- Phage (with cluster) where this start called: BirdsNest_34 (B13), Cloudyecho_23 (G3), FlagStaff_23 (G2), GodSpeed_24 (G2), MOOREtheMARYer_24 (G3), Pace1224_23 (G2), Pinnie_24 (G3),

Start 99:

- Found in 25 of 574 (4.4%) of genes in pham
- Manual Annotations of this start: 6 of 510
- Called 24.0% of time when present
- Phage (with cluster) where this start called: Aggie_22 (N), Bosection6_22 (N), Carcharodon_22 (N), Charlie_22 (N), Philonius_22 (N), Pipsqueaks_22 (N),

Start 100:

- Found in 11 of 574 (1.9%) of genes in pham
- No Manual Annotations of this start.
- Called 18.2% of time when present

- Phage (with cluster) where this start called: Teejan_24 (K1), Trice_24 (K1),

Start 101:

- Found in 34 of 574 (5.9%) of genes in pham
- Manual Annotations of this start: 20 of 510
- Called 67.6% of time when present
- Phage (with cluster) where this start called: Bromden_23 (L4), Chaser_21 (L4), Chewbacca_22 (N), ChutneyChips_22 (L4), Cubone_22 (N), Douge_21 (L4), Duplicity_22 (N), EGUunicorn_22 (N), Gex_22 (N), Journey_22 (N), LilSpotty_25 (singleton), Magsby_22 (N), Melville_22 (N), MulchSalad_20 (F7), Parmesanjohn_22 (N), Schnauzer_22 (N), Silvafighter_22 (N), Silvy_22 (N), Smurph_22 (N), Tapioca_22 (N), Tessdabest_21 (N), Tortoise12_22 (N), Xerxes_22 (N),

Start 103:

- Found in 1 of 574 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gspu1_26 (CU2),

Start 111:

- Found in 6 of 574 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_25 (AB), FF47_25 (AB), LongHai_26 (AB), Maco6_23 (AB), Muddy_25 (AB), Salvus_26 (AB),

Start 112:

- Found in 43 of 574 (7.5%) of genes in pham
- Manual Annotations of this start: 35 of 510
- Called 88.4% of time when present
- Phage (with cluster) where this start called: Alephlan_30 (DV), Alyssamiracle_33 (DV), Apeppi_30 (DV), Astralis_30 (DV), Avian_30 (DV), BirthdayBoy_34 (DV), Charminar_30 (DV), DaviePasture_33 (DV), DoobyDoo_32 (DV), Erutan_33 (DV), Fulcrum_34 (DV), GOATification_34 (DV), Genamy16_33 (DV), Gibbin_34 (DV), Gretellyn_33 (DV), Jalebi_32 (DV), Jamemuya19_30 (DV), Lambo_33 (DV), LavAbarElk_31 (DV), Lila22_32 (DV), Mima20_31 (DV), MoiGyank_35 (DV), NorManre_34 (DV), NovaSharks_32 (DV), OtterstedtS21_33 (DV), ParvusTarda_33 (DV), Patos_34 (DV), Pywacket_32 (DV), Ranch_33 (DV), RazorC_31 (DV), Riduram_30 (DV), Rumi_32 (DV), Sampudon_33 (DV), Stormer_32 (DV), Tillicus_32 (DV), Wojtek_32 (DV), Yikes_34 (DV), Zany_32 (DV),

Start 113:

- Found in 8 of 574 (1.4%) of genes in pham
- Manual Annotations of this start: 4 of 510
- Called 62.5% of time when present
- Phage (with cluster) where this start called: Jumbo_25 (DF3), Phishy_30 (DT), Sprinklemunch_22 (DW), Taquito_27 (K4), Zodiariah_22 (DW),

Start 114:

- Found in 42 of 574 (7.3%) of genes in pham
- Manual Annotations of this start: 5 of 510
- Called 11.9% of time when present

- Phage (with cluster) where this start called: Eponine_29 (K4), Langerak_22 (P1), Malithi_22 (P1), Phrann_21 (N), SamScheppers_27 (K4),

Start 115:

- Found in 8 of 574 (1.4%) of genes in pham
- Manual Annotations of this start: 6 of 510
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Butters_22 (N), Juliette_30 (K4), Kevin1_22 (N), Pharb_27 (K3), Rubeelu_22 (N), Ruthiejr_29 (K4), Vordorf_31 (DT),

Start 117:

- Found in 268 of 574 (46.7%) of genes in pham
- Manual Annotations of this start: 228 of 510
- Called 94.8% of time when present
- Phage (with cluster) where this start called: Adephagia_28 (K1), Agent47_27 (K5), Ageofdapage_28 (K1), AlishaPH_28 (K1), AlleyCat_28 (K5), Amgine_26 (K6), Amohntion_27 (K6), Andies_21 (N), Angelica_28 (K1), Apocalypse_28 (K1), Applecrisp_26 (K6), Arib1_22 (P1), Asayake_28 (K1), Atcoo_22 (P1), Atiba_28 (K1), Auspice_31 (M1), BEEST_28 (K1), BGlluviae_28 (K1), Babsiella_22 (I1), BabyMoney_29 (DT), BaghaKamala_28 (K1), BananenDer11_27 (K5), BarrelRoll_28 (K1), Bartholomew_22 (P1), Beezoo_28 (K1), Bella96_28 (K1), Belladonna_28 (K1), Bern_28 (K1), Bhagsy_22 (P1), BigNuz_22 (P4), Bipper_28 (Y), Blizzard_28 (K1), Bluvara_22 (I3), Bobquesha_30 (K4), Boiiii_28 (K1), Bongo_31 (M1), Bricole_31 (M1), BronnyJr_22 (P1), Brusacoram_22 (P1), Bunnies_22 (P1), CREW_28 (K1), CactusJack_22 (P1), CallaLilly_28 (K1), Camster_22 (P1), Capricorn_28 (K1), CaseJules_28 (K1), Chancellor_29 (K4), Che9c_21 (I2), CheetoDust_28 (K1), Cheetobro_29 (K4), Chubbello_22 (P1), Clipper_28 (K1), Collard_27 (K5), Cracklewink_28 (Y), CrimD_28 (K1), Curiosium_29 (K1), Dadosky_28 (K5), Dalmuri_28 (K1), DanSyl44_30 (K4), DartGoblin_28 (K1), DarthP_27 (K6), Dartin_28 (K1), Deby_28 (K1), Demikore_38 (U), Devera_28 (K1), Diminimus_32 (M1), Dole_28 (K1), Donovan_22 (P1), DoubleChamp_27 (K5), DrHayes_28 (K1), Dulcita_32 (M1), DumpsterDude_23 (DW), Durfee_28 (K1), Dynamo_22 (P1), Edugator_27 (K5), Efra2_28 (K1), Ekdilam_25 (K6), Ellie_25 (K6), Emerson_28 (K1), Etoile_22 (P1), Ewald_30 (DT), Farewell_21 (AF), Fefferhead_27 (K6), Feyre_27 (K5), Fionnbharth_29 (K4), FirstPlacePfu_22 (P1), Fishburne_22 (P1), FreakyGoo_32 (M1), GaloreK_22 (P1), Ganymede_29 (K1), Gavriela_22 (P1), Gengar_27 (K5), Geraldini_28 (K1), Glaske16_32 (M1), Glaske_22 (P1), Guanica15_28 (K1), Guillsminger_27 (K5), HC_22 (I1), HUHilltop_22 (P1), Hammy_27 (K6), HedwigODU_28 (K1), Heftyboy_27 (K5), Hilltopfarm_28 (Y), Homura_28 (K1), Hyperbowlee_28 (K1), IPhane7_31 (M1), IdentityCrisis_21 (AJ), Illumine_28 (K1), Impisi_22 (N), Inky_28 (K1), InvictusManeo_27 (K5), Izel_32 (M1), JAWS_28 (K1), JF1_29 (K4), Jarvi_28 (K1), Jayhawk_28 (K1), Jebeks_22 (P1), Jeckyll_28 (K1), Joy99_28 (K1), Jung_22 (P1), Juniormint_22 (P1), Kari_22 (P1), KilKor_22 (P1), KleverKiS_31 (M1), Kratio_26 (K5), Kraw_29 (K4), Ksquared_22 (P1), Labelle_37 (U), Larva_28 (K5), LaterM_28 (K1), Lavahound_26 (K6), Lebo14_29 (K4), Leston_27 (K5), LilDirt_26 (K5), LilhomieP_30 (M1), LindNT_28 (K1), Llorens_28 (K1), LordVader_21 (F), Lunahalos_28 (K1), MacKat_28 (K1), Madrugua_36 (U), Majeke_22 (P1), MalagasyRose_28 (AG), Malthus_30 (K4), Mangethe_22 (P1), McMater_28 (K1), MeaningOfLife_28 (K1), Megiddo_22 (P1), Megsy_28 (K1), MichelleMyBell_22 (N), Miryou_27 (K5), MissDaisy_29 (K4), Mitti_29 (K4), Murucutumbu_28 (K1), Mynx_28 (K1), Nazo_22 (P4), Necropolis_22 (P1), Neighly_28 (K3), Niklas_28 (K1), November_26 (K6), Nyceirae_31 (DT), Okabe_21 (F8), OkiRoe_27 (K5), OmniCritical_29 (K4), Omicron_28 (K5), Padfoot_28 (K1), Padpat_28 (K1),

Panchino_21 (N), Paola_27 (K5), Patience_38 (U), Patt_29 (K4), Peanam_28 (K1), Peel_28 (K1), PegLeg_31 (M1), Phalm_22 (P1), Phayonce_22 (P5), Phegasus_22 (P1), Phineas_22 (P1), Piatt_28 (K1), Pimento_27 (DI), Pisa1_27 (K1), Pisa4_27 (K1), Pokerus_27 (K1), Polkaroo_22 (P1), Prithvi_28 (K1), Psycho_28 (K5), Purky_22 (P6), Qhanda_30 (K4), QuincyRose_27 (K1), Ramen_28 (K1), Rando14_28 (K5), Rapunzel97_28 (K1), RavenCo17_26 (CZ8), Raymond7_21 (N), Rebel_21 (N), Reindeer_30 (M1), Reptar3000_29 (K4), Richo_28 (K1), Rosmarinus_28 (K1), SamuelLPlaqson_28 (K1), Sbash_21 (I2), Scitech_21 (N), Shaobing_28 (K1), ShiaSurprise_28 (K1), Shweta_21 (N), SkinnyPete_21 (N), Skinny_32 (M1), Slarp_29 (K4), SlimJimmy_30 (M1), Slimphazie_28 (K1), SoSeph_27 (K5), Sonah_22 (P1), Sparky_21 (AF), Spock_28 (K1), StevieRay_22 (P1), Stinson_29 (K1), StressBall_22 (P1), Sulley_28 (K1), SuperSonics_37 (U), TClif_28 (K6), Tachez_28 (K1), Techage_22 (P1), Thespis_22 (P1), ThulaThula_22 (P5), Thyatira_27 (K5), TiniBug_28 (K1), Tiri_28 (K1), Topper_28 (K1), Tortellini_22 (P2), TpudiCK_32 (M1), TreyKay_28 (K1), TruffulaTree_28 (K1), Twitch_28 (K1), TyDawg_31 (M1), Urkel_28 (K1), Validus_28 (K1), Veliki_28 (K1), Venti_22 (P1), Vidya_22 (P1), ViviJ_26 (K5), WST1_22 (AJ), Waterfoul_27 (K5), Willsammy_22 (P1), Wintermute_29 (K4), Xavia_22 (P3), Xeno_21 (N), Y10_29 (K4), Y2_29 (K4), YoureAdopted_27 (K1), Yuna_29 (K6), Yunkel11_28 (K1), Zabiza_28 (K1), Zavala_28 (K1), Zilizebeth_22 (P1),

Start 118:

- Found in 7 of 574 (1.2%) of genes in pham
- Manual Annotations of this start: 4 of 510
- Called 57.1% of time when present
- Phage (with cluster) where this start called: KiSi_27 (K1), LeMond_27 (K1), Oscar_27 (K1), Scarlett_27 (K1),

Start 119:

- Found in 74 of 574 (12.9%) of genes in pham
- Manual Annotations of this start: 47 of 510
- Called 66.2% of time when present
- Phage (with cluster) where this start called: Amelie_24 (K1), Binglebops_24 (K1), BoostSeason_25 (K2), Bryler_28 (K6), Cain_28 (K6), Chris_27 (K1), DismalFunk_25 (K2), DismalStressor_25 (K2), Dogfish_30 (DT), Doughnut_25 (K2), Enkosi_24 (K1), Findley_25 (K2), Hurricane_28 (K3), Keshu_28 (K3), Krueger_28 (K6), LastHope_28 (K1), Lea83_28 (K3), LilPharaoh_24 (K1), MacnCheese_29 (K3), Manilisa_32 (DT), Marcoliusprime_25 (K2), MarkPhew_28 (K1), Marshawn_29 (K6), Mdavu_24 (K1), Milly_25 (K2), Mufasa_25 (K2), Nibb_27 (K1), Nikao_24 (K1), Nutello_24 (K1), PhelpsODU_28 (K6), Phrank_28 (K6), Pixie_28 (K3), SgtBeansprout_24 (K1), Shadow1_27 (K6), ShedlockHolmes_28 (K3), SirPhilip_27 (K6), Strobilo_25 (K2), Sunflower1121_27 (K6), Syra333_28 (K6), TBond007_28 (K3), TM4_25 (K2), Tierra_28 (K6), Tigress9_28 (K6), TingHuaYa_28 (K1), Torres_24 (K1), TripleTrouble_27 (K3), Unicorn_28 (K6), Ximenita_29 (K6), ZoeJ_25 (K2),

Start 120:

- Found in 14 of 574 (2.4%) of genes in pham
- Manual Annotations of this start: 14 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ayotoya_27 (DI), BetterKatz_27 (DI), Bock_27 (DI), Brylie_27 (DI), Chop_27 (DI), DelRio_28 (DI), Francois_27 (DI), GrandSlam_27 (DI), Hamood_27 (DI), Mulch_27 (DI), Nadeem_27 (DI), NancyRae_27 (DI), Parada_27 (DI), WheatThin_27 (DI),

Start 128:

- Found in 3 of 574 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daredevil_37 (DL), GTE8_33 (CR2), Towmatter_36 (DL),

Start 129:

- Found in 39 of 574 (6.8%) of genes in pham
- No Manual Annotations of this start.
- Called 2.6% of time when present
- Phage (with cluster) where this start called: PeanutPie_22 (P1),

Start 130:

- Found in 5 of 574 (0.9%) of genes in pham
- Manual Annotations of this start: 3 of 510
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dalilpop_49 (CR1), Flapper_49 (CR1), GRU1_34 (CR1), GTE5_36 (CR1), HubbaBubba_42 (CR4),

Start 131:

- Found in 3 of 574 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 510
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Meyran_29 (DT),

Start 132:

- Found in 39 of 574 (6.8%) of genes in pham
- Manual Annotations of this start: 36 of 510
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Arti_44 (CR2), Barnyard_37 (H2), BiPauneto_47 (CR4), Bonum_48 (CR2), Buggaboo_46 (CR2), Commandaria_46 (CR2), DrLupo_39 (H2), Emianna_44 (CR2), Ennea_51 (CR3), Float294_47 (CR3), Foxboro_45 (CR2), Fury_53 (CR5), GrootJr_46 (CR2), HomeFry_50 (CR5), Jifall16_43 (CR2), Kabluna_48 (CR2), KidneyBean_44 (CR2), Kurt_44 (CR2), Lollipop1437_50 (CR3), MerCougar_46 (CR2), NatB6_44 (CR2), NosilaM_48 (CR2), NovumRegina_44 (CR2), Outis_46 (CR2), Patio_48 (CR3), Pemberton_48 (CR4), Phomeo_43 (CR2), Pleakley_53 (CR5), RedRaider_52 (CR3), Scuba_53 (CR5), Skysand_47 (CR3), StarStruck_46 (CR2), Sukkupi_46 (CR4), SuperSulley_46 (CR2), Tracker_44 (CR2), Wheezy_44 (CR2), WhoseManz_46 (CR4), Yndexa_46 (CR4),

Start 142:

- Found in 10 of 574 (1.7%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: FarmResident_21 (L4), Quby_21 (L4),

Start 144:

- Found in 3 of 574 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 510
- Called 33.3% of time when present
- Phage (with cluster) where this start called: LuckyLeo_32 (DV),

Start 146:

- Found in 25 of 574 (4.4%) of genes in pham
- Manual Annotations of this start: 1 of 510
- Called 4.0% of time when present
- Phage (with cluster) where this start called: Archimedes_26 (DA),

Start 154:

- Found in 8 of 574 (1.4%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Rota_32 (DV), Rukungu_33 (DV),

Start 156:

- Found in 8 of 574 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 510
- Called 12.5% of time when present
- Phage (with cluster) where this start called: YasnayaPolyana_29 (K4),

Start 170:

- Found in 15 of 574 (2.6%) of genes in pham
- No Manual Annotations of this start.
- Called 6.7% of time when present
- Phage (with cluster) where this start called: MakCheese_24 (DW),

Start 177:

- Found in 90 of 574 (15.7%) of genes in pham
- Manual Annotations of this start: 9 of 510
- Called 12.2% of time when present
- Phage (with cluster) where this start called: ActinUp_28 (K1), Adonis_28 (K1), Anaya_29 (K1), Anma_28 (K1), ChipMunk_34 (A2), EvilGenius_34 (A2), Gail_32 (A14), KingCyrus_34 (A2), Luchador_34 (A14), SororFago_32 (A14), TaiwanKao_29 (K1),

Start 201:

- Found in 32 of 574 (5.6%) of genes in pham
- Manual Annotations of this start: 28 of 510
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Anamika_30 (CS3), Beaver_33 (CS2), Berries_30 (CS3), Bianmat_30 (CS3), Charianelly_30 (CS3), Damp_30 (CS3), Diabla_32 (CS2), FelixAlejandro_34 (CS2), GalacticEye_30 (CS3), Hail2Pitt_30 (CS3), Harambe_30 (CS3), Hello_30 (CS3), Jams_30 (CS3), Jormungandr_30 (CS3), Kaseim_30 (CS3), Lahirium_30 (CS3), Lidong_30 (CS3), Luker_31 (CS3), Minos_31 (CS3), MrWormie_30 (CS3), Msay19_34 (CS2), Neoevie_30 (CS3), Newt_31 (CS3), Nimi13_30 (CS3), Poland_34 (CS2), Shelley_30 (CS3), Teal_30 (CS3), Woes_30 (CS3),

Summary by clusters:

There are 64 clusters represented in this pham: CZ8, B10, DI, M2, DL, DA, K3, K2, K1, AB, M1, K6, K5, K4, DV, DW, DT, A14, F, G4, G3, G2, I1, I3, I2, DF3, A2, CS3, CS2, P2, P3, AC, P1, AE, P4, P5, AH, AJ, G5, N, Q, L4, U, Y, singleton, Z, AF, CU2, CR2, CR3, CR1, P6, CR4, CR5, F8, F7, B11, H2, CD, AG, K7, B8, B9, B13,

Info for manual annotations of cluster A14:

- Start number 177 was manually annotated 3 times for cluster A14.

Info for manual annotations of cluster A2:

- Start number 177 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster AB:

- Start number 88 was manually annotated 1 time for cluster AB.
- Start number 111 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster AC:

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

Info for manual annotations of cluster AE:

- Start number 90 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster AF:

- Start number 117 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AG:

- Start number 117 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AH:

- Start number 69 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AJ:

- Start number 117 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster B10:

- Start number 73 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 73 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B13:

- Start number 72 was manually annotated 1 time for cluster B13.
- Start number 73 was manually annotated 1 time for cluster B13.
- Start number 93 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B8:

- Start number 73 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 73 was manually annotated 4 times for cluster B9.

Info for manual annotations of cluster CD:

- Start number 86 was manually annotated 2 times for cluster CD.

Info for manual annotations of cluster CR1:

- Start number 130 was manually annotated 2 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 132 was manually annotated 21 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 132 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 130 was manually annotated 1 time for cluster CR4.
- Start number 132 was manually annotated 4 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 132 was manually annotated 3 times for cluster CR5.

Info for manual annotations of cluster CS2:

- Start number 201 was manually annotated 5 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 201 was manually annotated 23 times for cluster CS3.

Info for manual annotations of cluster CZ8:

- Start number 117 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DA:

- Start number 146 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DF3:

- Start number 113 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DI:

- Start number 117 was manually annotated 1 time for cluster DI.
- Start number 120 was manually annotated 14 times for cluster DI.

Info for manual annotations of cluster DL:

- Start number 128 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster DT:

- Start number 113 was manually annotated 1 time for cluster DT.
- Start number 117 was manually annotated 2 times for cluster DT.
- Start number 119 was manually annotated 1 time for cluster DT.
- Start number 131 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster DV:

- Start number 112 was manually annotated 35 times for cluster DV.
- Start number 144 was manually annotated 1 time for cluster DV.

Info for manual annotations of cluster DW:

- Start number 113 was manually annotated 1 time for cluster DW.
- Start number 117 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster G2:

- Start number 74 was manually annotated 2 times for cluster G2.
- Start number 93 was manually annotated 1 time for cluster G2.

Info for manual annotations of cluster G3:

- Start number 93 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 74 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 74 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster H2:

- Start number 132 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster I1:

- Start number 117 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster I2:

- Start number 117 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster K1:

- Start number 117 was manually annotated 89 times for cluster K1.
- Start number 118 was manually annotated 4 times for cluster K1.
- Start number 119 was manually annotated 13 times for cluster K1.
- Start number 177 was manually annotated 3 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 119 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 115 was manually annotated 1 time for cluster K3.
- Start number 119 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 113 was manually annotated 1 time for cluster K4.
- Start number 114 was manually annotated 2 times for cluster K4.
- Start number 115 was manually annotated 2 times for cluster K4.
- Start number 117 was manually annotated 16 times for cluster K4.
- Start number 156 was manually annotated 1 time for cluster K4.

Info for manual annotations of cluster K5:

- Start number 117 was manually annotated 25 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 117 was manually annotated 12 times for cluster K6.
- Start number 119 was manually annotated 14 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 40 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster L4:

- Start number 101 was manually annotated 4 times for cluster L4.

Info for manual annotations of cluster M1:

- Start number 117 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 92 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster N:

- Start number 99 was manually annotated 6 times for cluster N.
- Start number 101 was manually annotated 15 times for cluster N.
- Start number 114 was manually annotated 1 time for cluster N.
- Start number 115 was manually annotated 3 times for cluster N.
- Start number 117 was manually annotated 8 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 114 was manually annotated 2 times for cluster P1.
- Start number 117 was manually annotated 37 times for cluster P1.

Info for manual annotations of cluster P2:

- Start number 117 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 117 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:

- Start number 117 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 117 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:

- Start number 117 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster Q:

- Start number 58 was manually annotated 22 times for cluster Q.
- Start number 59 was manually annotated 1 time for cluster Q.

Info for manual annotations of cluster U:

- Start number 117 was manually annotated 3 times for cluster U.

Info for manual annotations of cluster Y:

- Start number 117 was manually annotated 3 times for cluster Y.

Info for manual annotations of cluster Z:

- Start number 69 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_31 Start: 25140, Stop: 26351, Start Num: 69

Candidate Starts for 32HC_31:

(Start: 69 @25140 has 2 MA's), (76, 25161), (143, 25299), (191, 25401), (258, 25524), (264, 25539), (278, 25560), (305, 25611), (319, 25641), (321, 25644), (327, 25650), (341, 25677), (343, 25680), (346, 25686), (355, 25701), (360, 25707), (372, 25728), (375, 25740), (422, 25872), (424, 25899), (483, 26082), (504, 26115), (573, 26289),

Gene: 8UZL_25 Start: 21727, Stop: 22752, Start Num: 111

Candidate Starts for 8UZL_25:

(Start: 111 @21727 has 2 MA's), (160, 21817), (194, 21886), (199, 21895), (252, 21973), (296, 22036), (298, 22039), (319, 22087), (374, 22183), (386, 22219), (412, 22270), (423, 22327), (521, 22564), (571, 22690),

Gene: ActinUp_28 Start: 23436, Stop: 24338, Start Num: 177

Candidate Starts for ActinUp_28:

(27, 22881), (43, 23028), (95, 23280), (Start: 117 @23325 has 228 MA's), (Start: 177 @23436 has 9 MA's), (244, 23550), (303, 23667), (328, 23709), (335, 23721), (386, 23775), (419, 23853), (443, 23949), (451, 23961), (462, 23991), (468, 24000), (514, 24114), (551, 24183),

Gene: Adephagia_28 Start: 23322, Stop: 24335, Start Num: 117

Candidate Starts for Adephagia_28:

(27, 22878), (43, 23025), (95, 23277), (Start: 117 @23322 has 228 MA's), (Start: 177 @23433 has 9 MA's), (244, 23547), (303, 23664), (328, 23706), (335, 23718), (386, 23772), (419, 23850), (443, 23946), (451, 23958), (462, 23988), (468, 23997), (514, 24111), (551, 24180),

Gene: Adonis_28 Start: 23439, Stop: 24341, Start Num: 177

Candidate Starts for Adonis_28:

(27, 22884), (95, 23283), (Start: 117 @23328 has 228 MA's), (Start: 177 @23439 has 9 MA's), (244, 23553), (303, 23670), (328, 23712), (335, 23724), (386, 23778), (419, 23856), (438, 23940), (443, 23952), (451, 23964), (468, 24003), (514, 24117), (551, 24186),

Gene: Agent47_27 Start: 24079, Stop: 25143, Start Num: 117

Candidate Starts for Agent47_27:

(Start: 117 @24079 has 228 MA's), (163, 24169), (174, 24196), (206, 24259), (237, 24307), (258, 24346), (266, 24364), (301, 24409), (323, 24448), (349, 24496), (361, 24514), (394, 24589), (420, 24655), (440, 24745), (441, 24748), (443, 24751), (458, 24784), (493, 24883), (496, 24886), (538, 24970), (543, 24982), (584, 25099),

Gene: Ageofdapage_28 Start: 23272, Stop: 24285, Start Num: 117

Candidate Starts for Ageofdapage_28:

(Start: 117 @23272 has 228 MA's), (Start: 177 @23383 has 9 MA's), (244, 23497), (303, 23614), (328, 23656), (386, 23722), (393, 23731), (419, 23800), (443, 23896), (451, 23908), (457, 23926), (468, 23947), (514, 24061), (551, 24130), (580, 24226),

Gene: Aggie_22 Start: 20221, Stop: 21438, Start Num: 99

Candidate Starts for Aggie_22:

(37, 19894), (Start: 59 @20092 has 1 MA's), (Start: 99 @20221 has 6 MA's), (Start: 101 @20224 has 20 MA's), (233, 20485), (315, 20656), (389, 20806), (406, 20845), (436, 20947), (440, 20989), (575, 21361),

Gene: Aikoy_42 Start: 32875, Stop: 34014, Start Num: 90

Candidate Starts for Aikoy_42:

(Start: 88 @32872 has 1 MA's), (Start: 90 @32875 has 3 MA's), (Start: 101 @32896 has 20 MA's), (Start: 118 @32932 has 4 MA's), (171, 33046), (172, 33049), (200, 33103), (218, 33130), (271, 33235), (279, 33244), (313, 33316), (344, 33367), (348, 33376), (362, 33397), (378, 33433), (441, 33619),

(461, 33661), (463, 33664), (471, 33688), (489, 33754),

Gene: Alephilan_30 Start: 28717, Stop: 29766, Start Num: 112

Candidate Starts for Alephilan_30:

(Start: 112 @28717 has 35 MA's), (174, 28831), (192, 28873), (Start: 201 @28894 has 28 MA's), (221, 28927), (230, 28942), (260, 29005), (270, 29023), (365, 29176), (377, 29206), (388, 29233), (453, 29416), (467, 29446), (542, 29620), (564, 29674),

Gene: AlishaPH_28 Start: 23315, Stop: 24328, Start Num: 117

Candidate Starts for AlishaPH_28:

(27, 22871), (95, 23270), (Start: 117 @23315 has 228 MA's), (Start: 177 @23426 has 9 MA's), (244, 23540), (303, 23657), (328, 23699), (335, 23711), (386, 23765), (419, 23843), (443, 23939), (451, 23951), (462, 23981), (468, 23990), (514, 24104), (551, 24173),

Gene: AlleyCat_28 Start: 24010, Stop: 25074, Start Num: 117

Candidate Starts for AlleyCat_28:

(Start: 117 @24010 has 228 MA's), (163, 24100), (175, 24130), (202, 24184), (206, 24190), (237, 24238), (258, 24277), (266, 24295), (267, 24298), (323, 24379), (349, 24427), (361, 24445), (420, 24586), (440, 24676), (441, 24679), (443, 24682), (458, 24715), (464, 24727), (493, 24814), (496, 24817), (543, 24913), (584, 25030),

Gene: Alyssamiracle_33 Start: 27521, Stop: 28618, Start Num: 112

Candidate Starts for Alyssamiracle_33:

(Start: 112 @27521 has 35 MA's), (174, 27635), (233, 27728), (251, 27761), (252, 27764), (253, 27767), (261, 27788), (266, 27800), (302, 27848), (336, 27911), (365, 27965), (403, 28061), (417, 28103), (483, 28337), (510, 28376), (552, 28463), (596, 28610),

Gene: Amelie_24 Start: 22900, Stop: 23907, Start Num: 119

Candidate Starts for Amelie_24:

(94, 22849), (100, 22861), (Start: 119 @22900 has 47 MA's), (152, 22960), (190, 23032), (221, 23086), (236, 23107), (303, 23236), (330, 23281), (331, 23284), (384, 23341), (386, 23344), (408, 23389), (420, 23425), (443, 23521), (451, 23533), (500, 23653), (564, 23785),

Gene: Amgine_26 Start: 23356, Stop: 24351, Start Num: 117

Candidate Starts for Amgine_26:

(83, 23320), (Start: 117 @23356 has 228 MA's), (168, 23446), (Start: 177 @23467 has 9 MA's), (240, 23575), (244, 23581), (252, 23602), (260, 23623), (400, 23830), (419, 23884), (420, 23887), (439, 23971), (440, 23974), (518, 24139),

Gene: Aminay_26 Start: 23478, Stop: 24887, Start Num: 40

Candidate Starts for Aminay_26:

(Start: 40 @23478 has 1 MA's), (44, 23517), (45, 23553), (46, 23565), (50, 23586), (60, 23652), (67, 23694), (77, 23730), (105, 23790), (134, 23850), (Start: 146 @23874 has 1 MA's), (163, 23910), (172, 23934), (182, 23955), (186, 23964), (197, 23988), (200, 23994), (225, 24036), (248, 24075), (254, 24090), (263, 24114), (280, 24144), (295, 24174), (327, 24234), (343, 24267), (347, 24276), (354, 24288), (393, 24324), (468, 24540), (554, 24747), (591, 24861),

Gene: Amochick_27 Start: 23377, Stop: 24615, Start Num: 58

Candidate Starts for Amochick_27:

(10, 22765), (11, 22831), (15, 22921), (16, 22924), (25, 23074), (33, 23161), (34, 23164), (47, 23302), (Start: 58 @23377 has 22 MA's), (81, 23473), (96, 23500), (98, 23506), (Start: 119 @23545 has 47 MA's), (124, 23554), (Start: 146 @23599 has 1 MA's), (150, 23611), (172, 23650), (200, 23707), (245, 23773), (260, 23812), (282, 23845), (294, 23866), (297, 23872), (315, 23908), (325, 23920), (328,

23923), (353, 23971), (357, 23977), (359, 23980), (364, 23989), (419, 24127), (443, 24220), (470, 24277), (471, 24283), (496, 24367), (508, 24382), (509, 24385), (547, 24451), (558, 24484),

Gene: Amohnition_27 Start: 23778, Stop: 24782, Start Num: 117

Candidate Starts for Amohnition_27:

(Start: 117 @23778 has 228 MA's), (249, 24015), (303, 24120), (410, 24279), (437, 24381), (440, 24393), (488, 24528), (507, 24546), (551, 24639), (570, 24705), (577, 24717),

Gene: Amymech_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Amymech_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: Anamika_30 Start: 38386, Stop: 39288, Start Num: 201

Candidate Starts for Anamika_30:

(Start: 201 @38386 has 28 MA's), (273, 38524), (311, 38593), (340, 38641), (375, 38704), (387, 38740), (393, 38749), (439, 38908), (550, 39142), (557, 39160), (591, 39265),

Gene: Anaya_29 Start: 23452, Stop: 24354, Start Num: 177

Candidate Starts for Anaya_29:

(27, 22897), (95, 23296), (Start: 117 @23341 has 228 MA's), (Start: 177 @23452 has 9 MA's), (244, 23566), (303, 23683), (328, 23725), (335, 23737), (386, 23791), (419, 23869), (443, 23965), (451, 23977), (462, 24007), (468, 24016), (514, 24130), (551, 24199),

Gene: Andies_21 Start: 20194, Stop: 21228, Start Num: 117

Candidate Starts for Andies_21:

(Start: 117 @20194 has 228 MA's), (192, 20350), (198, 20356), (260, 20464), (261, 20467), (267, 20482), (327, 20569), (349, 20614), (390, 20695), (412, 20752), (420, 20776), (451, 20881), (475, 20953), (502, 20998),

Gene: Angelica_28 Start: 23290, Stop: 24303, Start Num: 117

Candidate Starts for Angelica_28:

(Start: 117 @23290 has 228 MA's), (Start: 177 @23401 has 9 MA's), (244, 23515), (303, 23632), (335, 23686), (343, 23704), (386, 23740), (419, 23818), (443, 23914), (451, 23926), (462, 23956), (468, 23965), (514, 24079), (551, 24148),

Gene: Anma_28 Start: 23395, Stop: 24297, Start Num: 177

Candidate Starts for Anma_28:

(95, 23239), (Start: 117 @23284 has 228 MA's), (Start: 177 @23395 has 9 MA's), (244, 23509), (303, 23626), (328, 23668), (335, 23680), (386, 23734), (419, 23812), (443, 23908), (451, 23920), (468, 23959), (477, 23995), (551, 24142), (580, 24238),

Gene: Antsirabe_23 Start: 23216, Stop: 24619, Start Num: 74

Candidate Starts for Antsirabe_23:

(6, 22226), (8, 22427), (12, 22586), (68, 23192), (Start: 74 @23216 has 5 MA's), (137, 23342), (155, 23378), (161, 23387), (190, 23453), (193, 23459), (253, 23561), (286, 23630), (297, 23648), (316, 23690), (336, 23720), (355, 23756), (369, 23774), (381, 23813), (385, 23825), (413, 23894), (477, 24104), (513, 24191), (551, 24260),

Gene: Apeppi_30 Start: 28862, Stop: 29908, Start Num: 112

Candidate Starts for Apeppi_30:

(Start: 112 @28862 has 35 MA's), (Start: 144 @28919 has 1 MA's), (189, 29009), (192, 29018), (194, 29024), (199, 29033), (230, 29087), (343, 29285), (377, 29351), (380, 29363), (412, 29432), (457, 29573), (493, 29681),

Gene: Apocalypse_28 Start: 23293, Stop: 24306, Start Num: 117

Candidate Starts for Apocalypse_28:

(Start: 117 @23293 has 228 MA's), (Start: 177 @23404 has 9 MA's), (244, 23518), (303, 23635), (328, 23677), (335, 23689), (386, 23743), (419, 23821), (443, 23917), (451, 23929), (468, 23968), (507, 24064), (514, 24082), (551, 24151),

Gene: Applecrisp_26 Start: 23767, Stop: 24774, Start Num: 117

Candidate Starts for Applecrisp_26:

(83, 23731), (Start: 117 @23767 has 228 MA's), (168, 23857), (Start: 177 @23878 has 9 MA's), (221, 23959), (244, 23992), (252, 24013), (420, 24298), (428, 24337), (440, 24382), (570, 24697), (593, 24757),

Gene: Applejacks_28 Start: 21142, Stop: 22308, Start Num: 86

Candidate Starts for Applejacks_28:

(Start: 86 @21142 has 2 MA's), (116, 21202), (136, 21241), (141, 21250), (142, 21253), (149, 21271), (163, 21298), (176, 21331), (212, 21409), (252, 21478), (274, 21526), (283, 21541), (306, 21580), (314, 21601), (387, 21739), (396, 21757), (401, 21769), (408, 21784), (419, 21817), (420, 21820), (421, 21823), (456, 21943), (468, 21967), (480, 22027), (507, 22075),

Gene: Archimedes_26 Start: 23367, Stop: 24368, Start Num: 146

Candidate Starts for Archimedes_26:

(134, 23343), (Start: 146 @23367 has 1 MA's), (179, 23445), (260, 23595), (356, 23766), (420, 23898), (438, 23982), (455, 24018), (482, 24114), (545, 24213), (592, 24348),

Gene: Arib1_22 Start: 21305, Stop: 22342, Start Num: 117

Candidate Starts for Arib1_22:

(106, 21281), (Start: 114 @21302 has 5 MA's), (Start: 117 @21305 has 228 MA's), (129, 21329), (198, 21467), (222, 21509), (261, 21578), (301, 21638), (327, 21683), (349, 21728), (390, 21809), (412, 21866), (420, 21890), (451, 21995), (475, 22067), (502, 22112), (578, 22277),

Gene: Arti_44 Start: 34961, Stop: 36019, Start Num: 132

Candidate Starts for Arti_44:

(3, 33521), (5, 33818), (9, 34049), (22, 34418), (64, 34796), (66, 34811), (71, 34829), (Start: 132 @34961 has 36 MA's), (307, 35306), (335, 35357), (362, 35405),

Gene: Asayake_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Asayake_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (Start: 177 @23467 has 9 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (451, 23992), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Astralis_30 Start: 27111, Stop: 28208, Start Num: 112

Candidate Starts for Astralis_30:

(Start: 112 @27111 has 35 MA's), (174, 27225), (233, 27318), (251, 27351), (252, 27354), (253, 27357), (260, 27375), (261, 27378), (302, 27438), (330, 27489), (336, 27501), (403, 27651), (417, 27693), (483, 27927), (510, 27966), (552, 28053), (596, 28200),

Gene: Atcoo_22 Start: 21759, Stop: 22826, Start Num: 117

Candidate Starts for Atcoo_22:

(Start: 117 @21759 has 228 MA's), (198, 21921), (222, 21963), (261, 22032), (301, 22092), (327, 22137), (349, 22182), (412, 22320), (420, 22344),

Gene: Atiba_28 Start: 23285, Stop: 24298, Start Num: 117

Candidate Starts for Atiba_28:

(27, 22841), (43, 22988), (95, 23240), (Start: 117 @23285 has 228 MA's), (189, 23417), (244, 23510), (303, 23627), (328, 23669), (335, 23681), (386, 23735), (419, 23813), (443, 23909), (462, 23951), (468, 23960), (514, 24074), (551, 24143),

Gene: Auspice_31 Start: 26992, Stop: 28047, Start Num: 117

Candidate Starts for Auspice_31:

(Start: 117 @26992 has 228 MA's), (228, 27205), (252, 27241), (295, 27304), (335, 27376), (349, 27406), (362, 27427), (379, 27463), (394, 27499), (412, 27547), (419, 27568), (421, 27574), (424, 27604), (425, 27607), (439, 27655), (536, 27865), (560, 27919),

Gene: Avian_30 Start: 27503, Stop: 28600, Start Num: 112

Candidate Starts for Avian_30:

(Start: 112 @27503 has 35 MA's), (174, 27617), (233, 27710), (251, 27743), (252, 27746), (253, 27749), (260, 27767), (261, 27770), (302, 27830), (330, 27881), (336, 27893), (342, 27905), (365, 27947), (403, 28043), (417, 28085), (483, 28319), (510, 28358), (552, 28445), (596, 28592),

Gene: Avocado_23 Start: 23240, Stop: 24646, Start Num: 74

Candidate Starts for Avocado_23:

(17, 22718), (Start: 74 @23240 has 5 MA's), (Start: 115 @23330 has 6 MA's), (126, 23351), (137, 23366), (147, 23387), (193, 23483), (234, 23549), (239, 23555), (253, 23585), (255, 23591), (272, 23624), (305, 23687), (308, 23693), (312, 23705), (355, 23777), (381, 23831), (413, 23909), (442, 24020), (446, 24026), (448, 24032), (477, 24122), (479, 24140), (481, 24149), (517, 24215), (601, 24629),

Gene: Ayotoya_27 Start: 24101, Stop: 25168, Start Num: 120

Candidate Starts for Ayotoya_27:

(Start: 120 @24101 has 14 MA's), (333, 24479), (402, 24620), (408, 24635), (412, 24647), (420, 24671), (438, 24755), (440, 24761), (456, 24794), (460, 24806), (493, 24902), (496, 24905), (510, 24926),

Gene: Aziz_35 Start: 27886, Stop: 28968, Start Num: 92

Candidate Starts for Aziz_35:

(80, 27865), (89, 27880), (Start: 92 @27886 has 6 MA's), (133, 27961), (159, 28006), (163, 28012), (167, 28018), (172, 28036), (Start: 177 @28045 has 9 MA's), (200, 28096), (208, 28111), (223, 28135), (238, 28156), (261, 28210), (263, 28216), (291, 28270), (394, 28426), (555, 28837),

Gene: BEEST_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for BEEST_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (Start: 177 @23467 has 9 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (451, 23992), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: BGlluviae_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for BGlluviae_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Babsiella_22 Start: 21313, Stop: 22350, Start Num: 117

Candidate Starts for Babsiella_22:

(106, 21289), (Start: 114 @21310 has 5 MA's), (Start: 117 @21313 has 228 MA's), (129, 21337), (198, 21475), (222, 21517), (261, 21586), (301, 21646), (327, 21691), (349, 21736), (390, 21817), (412, 21874), (420, 21898), (451, 22003), (475, 22075), (502, 22120), (578, 22285),

Gene: BabyMoney_29 Start: 25948, Stop: 27033, Start Num: 117

Candidate Starts for BabyMoney_29:

(18, 25351), (24, 25438), (42, 25636), (Start: 117 @25948 has 228 MA's), (170, 26053), (197, 26116), (221, 26158), (260, 26236), (312, 26320), (333, 26350), (371, 26413), (412, 26521), (451, 26653),

Gene: BaghaKamala_28 Start: 23285, Stop: 24298, Start Num: 117

Candidate Starts for BaghaKamala_28:

(27, 22841), (95, 23240), (Start: 117 @23285 has 228 MA's), (Start: 177 @23396 has 9 MA's), (244, 23510), (303, 23627), (328, 23669), (335, 23681), (386, 23735), (419, 23813), (443, 23909), (451, 23921), (462, 23951), (468, 23960), (514, 24074), (551, 24143),

Gene: BananenDer11_27 Start: 24040, Stop: 25104, Start Num: 117

Candidate Starts for BananenDer11_27:

(Start: 117 @24040 has 228 MA's), (163, 24130), (174, 24157), (206, 24220), (237, 24268), (258, 24307), (266, 24325), (301, 24370), (323, 24409), (349, 24457), (361, 24475), (394, 24550), (420, 24616), (440, 24706), (441, 24709), (443, 24712), (458, 24745), (493, 24844), (496, 24847), (538, 24931), (543, 24943), (584, 25060),

Gene: Barnyard_37 Start: 29858, Stop: 30898, Start Num: 132

Candidate Starts for Barnyard_37:

(62, 29684), (122, 29834), (Start: 132 @29858 has 36 MA's), (224, 30035), (257, 30089), (311, 30188), (348, 30254), (350, 30257), (357, 30266), (376, 30308), (411, 30389), (414, 30401), (443, 30506), (461, 30545), (485, 30635), (505, 30656), (545, 30725), (551, 30740), (593, 30878), (594, 30881), (595, 30884),

Gene: BarrelRoll_28 Start: 23308, Stop: 24321, Start Num: 117

Candidate Starts for BarrelRoll_28:

(27, 22864), (95, 23263), (Start: 117 @23308 has 228 MA's), (Start: 177 @23419 has 9 MA's), (244, 23533), (303, 23650), (328, 23692), (335, 23704), (386, 23758), (419, 23836), (443, 23932), (462, 23974), (468, 23983), (514, 24097), (551, 24166),

Gene: Bartholomew_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for Bartholomew_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412, 21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: Beaver_33 Start: 37866, Stop: 38768, Start Num: 201

Candidate Starts for Beaver_33:

(Start: 201 @37866 has 28 MA's), (273, 38001), (290, 38031), (298, 38043), (318, 38076), (347, 38127), (375, 38175), (387, 38211), (420, 38292), (434, 38343), (435, 38346), (466, 38436), (529, 38583), (593, 38751),

Gene: Beezoo_28 Start: 23333, Stop: 24346, Start Num: 117

Candidate Starts for Beezoo_28:

(Start: 117 @23333 has 228 MA's), (Start: 177 @23444 has 9 MA's), (244, 23558), (258, 23597), (303, 23675), (328, 23717), (335, 23729), (386, 23783), (419, 23861), (438, 23945), (443, 23957), (451, 23969), (468, 24008), (514, 24122), (551, 24191),

Gene: Bella96_28 Start: 23266, Stop: 24279, Start Num: 117

Candidate Starts for Bella96_28:

(95, 23221), (Start: 117 @23266 has 228 MA's), (135, 23299), (Start: 177 @23377 has 9 MA's), (244, 23491), (303, 23608), (328, 23650), (335, 23662), (386, 23716), (419, 23794), (438, 23878), (443, 23890), (451, 23902), (455, 23914), (468, 23941), (477, 23977), (551, 24124), (580, 24220),

Gene: Belladonna_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Belladonna_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Bern_28 Start: 23278, Stop: 24291, Start Num: 117

Candidate Starts for Bern_28:

(63, 23140), (Start: 73 @23179 has 8 MA's), (82, 23209), (84, 23215), (Start: 117 @23278 has 228 MA's), (Start: 177 @23389 has 9 MA's), (244, 23503), (252, 23524), (303, 23620), (311, 23638), (328, 23662), (335, 23674), (386, 23728), (419, 23806), (443, 23902), (451, 23914), (468, 23953), (477, 23989), (551, 24136),

Gene: Berries_30 Start: 38356, Stop: 39258, Start Num: 201

Candidate Starts for Berries_30:

(Start: 201 @38356 has 28 MA's), (273, 38494), (311, 38563), (340, 38611), (375, 38674), (387, 38710), (439, 38878), (557, 39130), (591, 39235),

Gene: BetterKatz_27 Start: 23574, Stop: 24641, Start Num: 120

Candidate Starts for BetterKatz_27:

(Start: 120 @23574 has 14 MA's), (333, 23952), (402, 24093), (408, 24108), (412, 24120), (420, 24144), (421, 24147), (438, 24228), (493, 24375),

Gene: Bhagsy_22 Start: 21306, Stop: 22343, Start Num: 117

Candidate Starts for Bhagsy_22:

(106, 21282), (Start: 114 @21303 has 5 MA's), (Start: 117 @21306 has 228 MA's), (129, 21330), (198, 21468), (222, 21510), (261, 21579), (301, 21639), (327, 21684), (349, 21729), (390, 21810), (412, 21867), (420, 21891), (451, 21996), (475, 22068), (502, 22113), (578, 22278),

Gene: BiPauneto_47 Start: 34721, Stop: 35812, Start Num: 132

Candidate Starts for BiPauneto_47:

(Start: 132 @34721 has 36 MA's), (148, 34754), (192, 34850), (285, 35033), (319, 35102), (387, 35240), (394, 35252), (395, 35255),

Gene: Bianmat_30 Start: 38396, Stop: 39298, Start Num: 201

Candidate Starts for Bianmat_30:

(Start: 201 @38396 has 28 MA's), (273, 38534), (311, 38603), (340, 38651), (375, 38714), (387, 38750), (439, 38918), (557, 39170), (591, 39275),

Gene: BigNuz_22 Start: 21497, Stop: 22546, Start Num: 117

Candidate Starts for BigNuz_22:

(Start: 117 @21497 has 228 MA's), (127, 21518), (198, 21659), (214, 21689), (228, 21710), (264, 21773), (297, 21812), (380, 21971), (424, 22103), (459, 22199), (580, 22484),

Gene: Biglebops_24 Start: 22900, Stop: 23907, Start Num: 119

Candidate Starts for Biglebops_24:

(94, 22849), (100, 22861), (Start: 119 @22900 has 47 MA's), (152, 22960), (190, 23032), (221, 23086), (236, 23107), (303, 23236), (330, 23281), (331, 23284), (384, 23341), (386, 23344), (408, 23389), (420, 23425), (443, 23521), (451, 23533), (500, 23653), (564, 23785),

Gene: Bipper_28 Start: 26155, Stop: 27216, Start Num: 117

Candidate Starts for Bipper_28:

(Start: 117 @26155 has 228 MA's), (183, 26293), (196, 26314), (198, 26317), (227, 26365), (228, 26368), (266, 26443), (301, 26488), (327, 26530), (329, 26533), (338, 26551), (349, 26575), (357, 26587), (362, 26596), (365, 26602), (420, 26734), (440, 26824), (468, 26881), (478, 26917), (492, 26956), (534, 27037), (593, 27199),

Gene: BirdsNest_34 Start: 30801, Stop: 32168, Start Num: 93

Candidate Starts for BirdsNest_34:

(Start: 93 @30801 has 4 MA's), (109, 30831), (Start: 113 @30843 has 4 MA's), (126, 30867), (147, 30903), (157, 30921), (190, 30993), (192, 30996), (207, 31023), (255, 31107), (256, 31110), (268, 31137), (333, 31254), (389, 31368), (397, 31386), (479, 31662), (588, 31929),

Gene: BirthdayBoy_34 Start: 29543, Stop: 30589, Start Num: 112

Candidate Starts for BirthdayBoy_34:

(Start: 112 @29543 has 35 MA's), (174, 29657), (183, 29678), (192, 29699), (221, 29753), (230, 29768), (343, 29966), (377, 30032), (380, 30044), (412, 30113), (457, 30254),

Gene: Blizzard_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Blizzard_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (Start: 177 @23467 has 9 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (451, 23992), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: BloominB_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for BloominB_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: Bluvara_22 Start: 21380, Stop: 22417, Start Num: 117

Candidate Starts for Bluvara_22:

(106, 21356), (Start: 114 @21377 has 5 MA's), (Start: 117 @21380 has 228 MA's), (129, 21404), (198, 21542), (222, 21584), (261, 21653), (301, 21713), (327, 21758), (349, 21803), (390, 21884), (412, 21941), (420, 21965), (451, 22070), (475, 22142), (502, 22187),

Gene: Bobquesha_30 Start: 24333, Stop: 25337, Start Num: 117

Candidate Starts for Bobquesha_30:

(Start: 117 @24333 has 228 MA's), (209, 24501), (240, 24546), (244, 24552), (265, 24606), (313, 24696), (330, 24717), (335, 24726), (419, 24858), (420, 24861), (464, 24999), (481, 25068), (576,

25272),

Gene: Bock_27 Start: 23324, Stop: 24391, Start Num: 120

Candidate Starts for Bock_27:

(Start: 120 @23324 has 14 MA's), (333, 23702), (402, 23843), (408, 23858), (420, 23894), (438, 23978), (493, 24125),

Gene: Boiiii_28 Start: 23358, Stop: 24371, Start Num: 117

Candidate Starts for Boiiii_28:

(27, 22914), (95, 23313), (Start: 117 @23358 has 228 MA's), (Start: 177 @23469 has 9 MA's), (244, 23583), (303, 23700), (328, 23742), (335, 23754), (386, 23808), (419, 23886), (443, 23982), (451, 23994), (462, 24024), (468, 24033), (514, 24147), (551, 24216),

Gene: Bongo_31 Start: 26992, Stop: 28047, Start Num: 117

Candidate Starts for Bongo_31:

(Start: 117 @26992 has 228 MA's), (228, 27205), (252, 27241), (295, 27304), (335, 27376), (349, 27406), (362, 27427), (379, 27463), (394, 27499), (412, 27547), (419, 27568), (421, 27574), (424, 27604), (425, 27607), (439, 27655), (528, 27844), (536, 27865), (560, 27919),

Gene: Bonum_48 Start: 35639, Stop: 36694, Start Num: 132

Candidate Starts for Bonum_48:

(102, 35576), (Start: 132 @35639 has 36 MA's), (243, 35852), (264, 35909), (336, 36035), (451, 36323), (591, 36668),

Gene: BoostSeason_25 Start: 21308, Stop: 22333, Start Num: 119

Candidate Starts for BoostSeason_25:

(68, 21224), (Start: 119 @21308 has 47 MA's), (174, 21413), (205, 21473), (240, 21527), (244, 21533), (282, 21614), (284, 21620), (293, 21635), (295, 21638), (421, 21842), (587, 22301), (591, 22310),

Gene: Bosection6_22 Start: 20220, Stop: 21437, Start Num: 99

Candidate Starts for Bosection6_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: Bricole_31 Start: 26978, Stop: 28033, Start Num: 117

Candidate Starts for Bricole_31:

(Start: 117 @26978 has 228 MA's), (228, 27191), (252, 27227), (295, 27290), (335, 27362), (349, 27392), (362, 27413), (379, 27449), (394, 27485), (412, 27533), (419, 27554), (421, 27560), (424, 27590), (425, 27593), (439, 27641), (528, 27830), (536, 27851), (560, 27905),

Gene: Bromden_23 Start: 22120, Stop: 23205, Start Num: 101

Candidate Starts for Bromden_23:

(Start: 101 @22120 has 20 MA's), (110, 22132), (240, 22375), (254, 22411), (271, 22450), (275, 22459), (289, 22483), (347, 22594), (358, 22609), (421, 22711), (431, 22756), (451, 22810), (468, 22849), (566, 23092),

Gene: BronnyJr_22 Start: 21730, Stop: 22797, Start Num: 117

Candidate Starts for BronnyJr_22:

(Start: 114 @21727 has 5 MA's), (Start: 117 @21730 has 228 MA's), (198, 21892), (222, 21934), (261, 22003), (301, 22063), (327, 22108), (349, 22153), (382, 22222), (390, 22234), (412, 22291), (420, 22315), (466, 22453), (468, 22456),

Gene: Brusacoram_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for Brusacoram_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412, 21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: Bryler_28 Start: 22694, Stop: 23755, Start Num: 119

Candidate Starts for Bryler_28:

(Start: 119 @22694 has 47 MA's), (165, 22772), (167, 22775), (174, 22793), (236, 22901), (250, 22928), (252, 22934), (303, 23030), (309, 23042), (368, 23144), (384, 23195), (423, 23312), (520, 23555), (530, 23573), (551, 23612),

Gene: Brylie_27 Start: 23315, Stop: 24382, Start Num: 120

Candidate Starts for Brylie_27:

(Start: 120 @23315 has 14 MA's), (229, 23525), (333, 23693), (402, 23834), (408, 23849), (412, 23861), (420, 23885), (438, 23969), (455, 24005), (493, 24116),

Gene: Buggaboo_46 Start: 36118, Stop: 37173, Start Num: 132

Candidate Starts for Buggaboo_46:

(Start: 132 @36118 has 36 MA's), (243, 36331), (336, 36514), (451, 36802), (591, 37147),

Gene: Bunnies_22 Start: 21321, Stop: 22358, Start Num: 117

Candidate Starts for Bunnies_22:

(106, 21297), (Start: 114 @21318 has 5 MA's), (Start: 117 @21321 has 228 MA's), (129, 21345), (198, 21483), (222, 21525), (261, 21594), (301, 21654), (327, 21699), (349, 21744), (390, 21825), (412, 21882), (420, 21906), (451, 22011), (475, 22083), (502, 22128), (578, 22293),

Gene: Butters_22 Start: 19998, Stop: 21038, Start Num: 115

Candidate Starts for Butters_22:

(80, 19932), (Start: 115 @19998 has 6 MA's), (192, 20157), (198, 20163), (260, 20271), (261, 20274), (267, 20289), (327, 20379), (349, 20424), (390, 20505), (412, 20562), (420, 20586), (440, 20673), (451, 20691), (475, 20763), (502, 20808), (578, 20973),

Gene: CRB2_34 Start: 34225, Stop: 35433, Start Num: 73

Candidate Starts for CRB2_34:

(41, 34009), (64, 34192), (Start: 73 @34225 has 8 MA's), (151, 34387), (170, 34423), (190, 34471), (215, 34516), (252, 34576), (258, 34594), (295, 34660), (304, 34678), (311, 34696), (319, 34711), (321, 34714), (338, 34738), (422, 34933), (444, 35023), (457, 35068), (465, 35083), (486, 35170), (496, 35185), (525, 35236), (542, 35269), (593, 35416),

Gene: CREW_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for CREW_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: CactusJack_22 Start: 21561, Stop: 22601, Start Num: 117

Candidate Starts for CactusJack_22:

(Start: 117 @21561 has 228 MA's), (192, 21720), (198, 21726), (222, 21768), (260, 21834), (261, 21837), (301, 21897), (327, 21942), (349, 21987), (390, 22068), (412, 22125), (420, 22149), (451, 22254), (475, 22326), (502, 22371),

Gene: Cain_28 Start: 22682, Stop: 23743, Start Num: 119

Candidate Starts for Cain_28:

(Start: 119 @22682 has 47 MA's), (165, 22760), (167, 22763), (174, 22781), (236, 22889), (250, 22916), (252, 22922), (303, 23018), (309, 23030), (368, 23132), (384, 23183), (423, 23300), (520, 23543), (530, 23561), (551, 23600),

Gene: CallaLilly_28 Start: 23279, Stop: 24292, Start Num: 117

Candidate Starts for CallaLilly_28:

(27, 22835), (95, 23234), (Start: 117 @23279 has 228 MA's), (244, 23504), (303, 23621), (328, 23663), (335, 23675), (386, 23729), (419, 23807), (443, 23903), (462, 23945), (468, 23954), (514, 24068), (551, 24137),

Gene: Cambiare_24 Start: 23705, Stop: 25111, Start Num: 74

Candidate Starts for Cambiare_24:

(6, 22700), (12, 23075), (17, 23183), (Start: 74 @23705 has 5 MA's), (126, 23816), (137, 23831), (147, 23852), (193, 23948), (234, 24014), (239, 24020), (255, 24056), (272, 24089), (305, 24152), (308, 24158), (312, 24170), (355, 24242), (381, 24296), (413, 24374), (442, 24485), (446, 24491), (448, 24497), (477, 24587), (479, 24605), (481, 24614), (517, 24680), (601, 25094),

Gene: Camster_22 Start: 21300, Stop: 22367, Start Num: 117

Candidate Starts for Camster_22:

(106, 21276), (Start: 114 @21297 has 5 MA's), (Start: 117 @21300 has 228 MA's), (129, 21324), (198, 21462), (222, 21504), (261, 21573), (301, 21633), (327, 21678), (349, 21723), (382, 21792), (390, 21804), (412, 21861), (420, 21885), (474, 22056),

Gene: Capricorn_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Capricorn_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Carcharodon_22 Start: 20220, Stop: 21437, Start Num: 99

Candidate Starts for Carcharodon_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: CaseJules_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for CaseJules_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (Start: 177 @23467 has 9 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (451, 23992), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Chancellor_29 Start: 24596, Stop: 25600, Start Num: 117

Candidate Starts for Chancellor_29:

(Start: 117 @24596 has 228 MA's), (209, 24764), (240, 24809), (244, 24815), (265, 24869), (271, 24878), (313, 24959), (330, 24980), (333, 24986), (335, 24989), (419, 25121), (420, 25124), (457, 25247),

Gene: Charianelly_30 Start: 38106, Stop: 39008, Start Num: 201

Candidate Starts for Charianelly_30:

(Start: 201 @38106 has 28 MA's), (273, 38244), (311, 38313), (340, 38361), (375, 38424), (387, 38460), (439, 38628), (557, 38880), (591, 38985),

Gene: Charlie_22 Start: 20220, Stop: 21437, Start Num: 99

Candidate Starts for Charlie_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: Charminar_30 Start: 27114, Stop: 28211, Start Num: 112

Candidate Starts for Charminar_30:

(Start: 112 @27114 has 35 MA's), (174, 27228), (233, 27321), (251, 27354), (252, 27357), (253, 27360), (261, 27381), (266, 27393), (302, 27441), (336, 27504), (365, 27558), (403, 27654), (417, 27696), (454, 27822), (483, 27930), (510, 27969), (552, 28056), (596, 28203),

Gene: Chaser_21 Start: 21531, Stop: 22616, Start Num: 101

Candidate Starts for Chaser_21:

(Start: 101 @21531 has 20 MA's), (238, 21783), (254, 21822), (257, 21831), (258, 21834), (271, 21861), (275, 21870), (289, 21894), (313, 21945), (317, 21951), (347, 22005), (451, 22221), (468, 22260), (519, 22401), (533, 22434), (566, 22503),

Gene: Chavito_28 Start: 22750, Stop: 24003, Start Num: 52

Candidate Starts for Chavito_28:

(52, 22750), (54, 22756), (70, 22858), (97, 22921), (105, 22939), (Start: 177 @23074 has 9 MA's), (183, 23089), (200, 23125), (236, 23182), (240, 23188), (309, 23323), (317, 23341), (346, 23389), (357, 23407), (421, 23503), (440, 23584), (445, 23593), (462, 23632), (464, 23635), (545, 23833), (587, 23968),

Gene: Che9c_21 Start: 21007, Stop: 22053, Start Num: 117

Candidate Starts for Che9c_21:

(Start: 117 @21007 has 228 MA's), (228, 21220), (301, 21331), (327, 21373), (329, 21376), (365, 21445), (419, 21577), (424, 21613), (466, 21721), (536, 21874), (541, 21883), (548, 21895),

Gene: CheetoDust_28 Start: 23333, Stop: 24346, Start Num: 117

Candidate Starts for CheetoDust_28:

(27, 22889), (95, 23288), (Start: 117 @23333 has 228 MA's), (189, 23465), (244, 23558), (303, 23675), (328, 23717), (335, 23729), (386, 23783), (419, 23861), (443, 23957), (462, 23999), (468, 24008), (514, 24122), (551, 24191),

Gene: Cheetobro_29 Start: 24593, Stop: 25597, Start Num: 117

Candidate Starts for Cheetobro_29:

(Start: 117 @24593 has 228 MA's), (209, 24761), (240, 24806), (244, 24812), (265, 24866), (271, 24875), (313, 24956), (330, 24977), (333, 24983), (335, 24986), (419, 25118), (420, 25121), (457, 25244),

Gene: Chewbacca_22 Start: 20223, Stop: 21437, Start Num: 101

Candidate Starts for Chewbacca_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: ChipMunk_34 Start: 25662, Stop: 26558, Start Num: 177

Candidate Starts for ChipMunk_34:

(Start: 177 @25662 has 9 MA's), (299, 25893), (333, 25956), (336, 25962), (399, 26034), (419, 26088), (559, 26424),

Gene: Chop_27 Start: 23849, Stop: 24916, Start Num: 120

Candidate Starts for Chop_27:

(Start: 120 @23849 has 14 MA's), (333, 24227), (402, 24368), (408, 24383), (412, 24395), (420, 24419), (438, 24503), (440, 24509), (456, 24542), (460, 24554), (493, 24650), (496, 24653), (510, 24674),

Gene: Chris_27 Start: 22610, Stop: 23596, Start Num: 119

Candidate Starts for Chris_27:

(Start: 119 @22610 has 47 MA's), (175, 22715), (208, 22778), (221, 22799), (244, 22832), (250, 22847), (278, 22907), (333, 23000), (353, 23039), (420, 23138), (432, 23189), (457, 23261), (468, 23282), (499, 23363), (561, 23465),

Gene: Chubbello_22 Start: 21298, Stop: 22335, Start Num: 117

Candidate Starts for Chubbello_22:

(106, 21274), (Start: 114 @21295 has 5 MA's), (Start: 117 @21298 has 228 MA's), (129, 21322), (198, 21460), (222, 21502), (261, 21571), (301, 21631), (327, 21676), (349, 21721), (390, 21802), (412, 21859), (420, 21883), (440, 21970), (451, 21988), (475, 22060), (502, 22105), (578, 22270),

Gene: ChutneyChips_22 Start: 21717, Stop: 22802, Start Num: 101

Candidate Starts for ChutneyChips_22:

(Start: 101 @21717 has 20 MA's), (142, 21798), (219, 21945), (238, 21969), (250, 21996), (254, 22008), (258, 22020), (271, 22047), (289, 22080), (331, 22158), (347, 22191), (422, 22311), (431, 22353), (451, 22407), (519, 22587), (533, 22620), (547, 22644), (566, 22689),

Gene: Clipper_28 Start: 23333, Stop: 24346, Start Num: 117

Candidate Starts for Clipper_28:

(27, 22889), (95, 23288), (Start: 117 @23333 has 228 MA's), (Start: 177 @23444 has 9 MA's), (244, 23558), (303, 23675), (328, 23717), (335, 23729), (386, 23783), (419, 23861), (438, 23945), (443, 23957), (451, 23969), (462, 23999), (468, 24008), (514, 24122), (551, 24191),

Gene: Cloudyecho_23 Start: 23107, Stop: 24477, Start Num: 93

Candidate Starts for Cloudyecho_23:

(Start: 93 @23107 has 4 MA's), (157, 23227), (255, 23413), (320, 23542), (330, 23554), (355, 23602), (372, 23626), (397, 23692), (477, 23956), (479, 23974), (481, 23983), (599, 24436),

Gene: Collard_27 Start: 24040, Stop: 25104, Start Num: 117

Candidate Starts for Collard_27:

(Start: 117 @24040 has 228 MA's), (163, 24130), (174, 24157), (206, 24220), (237, 24268), (258, 24307), (266, 24325), (301, 24370), (323, 24409), (349, 24457), (361, 24475), (394, 24550), (420, 24616), (440, 24706), (441, 24709), (443, 24712), (458, 24745), (493, 24844), (496, 24847), (538, 24931), (543, 24943), (584, 25060),

Gene: Commandaria_46 Start: 36317, Stop: 37420, Start Num: 132

Candidate Starts for Commandaria_46:

(Start: 132 @36317 has 36 MA's), (192, 36446), (207, 36476), (387, 36836), (420, 36917), (527, 37220),

Gene: Cracklewink_28 Start: 26155, Stop: 27216, Start Num: 117

Candidate Starts for Cracklewink_28:

(Start: 117 @26155 has 228 MA's), (183, 26293), (196, 26314), (198, 26317), (227, 26365), (228, 26368), (266, 26443), (301, 26488), (327, 26530), (329, 26533), (338, 26551), (349, 26575), (357, 26587), (362, 26596), (365, 26602), (420, 26734), (440, 26824), (468, 26881), (492, 26956), (534, 27037), (593, 27199),

Gene: CrimD_28 Start: 23294, Stop: 24307, Start Num: 117

Candidate Starts for CrimD_28:

(Start: 117 @23294 has 228 MA's), (Start: 177 @23405 has 9 MA's), (244, 23519), (303, 23636), (328, 23678), (335, 23690), (386, 23744), (419, 23822), (438, 23906), (443, 23918), (451, 23930), (468, 23969), (580, 24248),

Gene: Cubone_22 Start: 20245, Stop: 21459, Start Num: 101

Candidate Starts for Cubone_22:

(37, 19915), (Start: 59 @20113 has 1 MA's), (Start: 99 @20242 has 6 MA's), (Start: 101 @20245 has 20 MA's), (233, 20506), (315, 20677), (389, 20827), (406, 20866), (436, 20968), (440, 21010), (575, 21382),

Gene: Curiosium_29 Start: 23069, Stop: 24148, Start Num: 117

Candidate Starts for Curiosium_29:

(Start: 117 @23069 has 228 MA's), (Start: 131 @23096 has 1 MA's), (172, 23183), (192, 23228), (202, 23243), (206, 23249), (222, 23276), (232, 23291), (258, 23336), (260, 23339), (264, 23351), (277, 23372), (301, 23399), (311, 23420), (349, 23486), (412, 23630), (419, 23651), (421, 23657), (482, 23855), (507, 23888), (510, 23897),

Gene: Dadosky_28 Start: 24011, Stop: 25075, Start Num: 117

Candidate Starts for Dadosky_28:

(Start: 117 @24011 has 228 MA's), (163, 24101), (175, 24131), (202, 24185), (206, 24191), (237, 24239), (258, 24278), (266, 24296), (267, 24299), (323, 24380), (349, 24428), (361, 24446), (420, 24587), (440, 24677), (441, 24680), (443, 24683), (458, 24716), (464, 24728), (493, 24815), (496, 24818), (543, 24914), (584, 25031),

Gene: Daegal_28 Start: 23665, Stop: 24903, Start Num: 58

Candidate Starts for Daegal_28:

(10, 23053), (11, 23119), (15, 23209), (16, 23212), (25, 23362), (33, 23449), (34, 23452), (47, 23590), (Start: 58 @23665 has 22 MA's), (81, 23761), (96, 23788), (98, 23794), (Start: 119 @23833 has 47 MA's), (124, 23842), (Start: 146 @23887 has 1 MA's), (150, 23899), (172, 23938), (200, 23995), (245, 24061), (260, 24100), (282, 24133), (294, 24154), (297, 24160), (315, 24196), (325, 24208), (328, 24211), (353, 24259), (357, 24265), (359, 24268), (364, 24277), (419, 24415), (443, 24508), (470, 24565), (471, 24571), (496, 24655), (508, 24670), (509, 24673), (547, 24739), (558, 24772),

Gene: Dalilpop_49 Start: 37250, Stop: 38311, Start Num: 130

Candidate Starts for Dalilpop_49:

(Start: 130 @37250 has 3 MA's), (181, 37358), (205, 37409), (220, 37436), (246, 37481), (276, 37544), (321, 37628), (335, 37649), (338, 37655), (353, 37682), (354, 37685), (437, 37910), (591, 38285),

Gene: Dalmuri_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Dalmuri_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Damp_30 Start: 37270, Stop: 38172, Start Num: 201

Candidate Starts for Damp_30:

(Start: 201 @37270 has 28 MA's), (273, 37408), (311, 37477), (340, 37525), (375, 37588), (387, 37624), (439, 37792), (550, 38026), (557, 38044), (591, 38149),

Gene: DanSyl44_30 Start: 25030, Stop: 26100, Start Num: 117

Candidate Starts for DanSyl44_30:

(Start: 114 @25027 has 5 MA's), (Start: 117 @25030 has 228 MA's), (247, 25270), (261, 25306), (264, 25315), (267, 25321), (301, 25366), (327, 25411), (336, 25429), (349, 25456), (390, 25537), (412, 25594), (420, 25618),

Gene: Daredevil_37 Start: 34603, Stop: 35670, Start Num: 128

Candidate Starts for Daredevil_37:

(Start: 128 @34603 has 2 MA's), (309, 34948), (335, 34993), (351, 35023), (458, 35314), (460, 35320), (469, 35338), (483, 35404), (487, 35407), (503, 35425), (523, 35473), (595, 35659),

Gene: DartGoblin_28 Start: 23263, Stop: 24276, Start Num: 117

Candidate Starts for DartGoblin_28:

(95, 23218), (Start: 117 @23263 has 228 MA's), (135, 23296), (Start: 177 @23374 has 9 MA's), (244, 23488), (303, 23605), (328, 23647), (335, 23659), (386, 23713), (419, 23791), (438, 23875), (443, 23887), (451, 23899), (468, 23938), (477, 23974), (551, 24121), (580, 24217),

Gene: DarthP_27 Start: 23700, Stop: 24704, Start Num: 117

Candidate Starts for DarthP_27:

(Start: 117 @23700 has 228 MA's), (303, 24042), (400, 24174), (410, 24201), (440, 24315), (507, 24468), (551, 24561), (553, 24564), (570, 24627), (577, 24639),

Gene: Dartin_28 Start: 22728, Stop: 23693, Start Num: 117

Candidate Starts for Dartin_28:

(Start: 117 @22728 has 228 MA's), (121, 22734), (200, 22887), (209, 22905), (221, 22923), (244, 22956), (260, 22998), (294, 23058), (303, 23073), (419, 23259), (420, 23262), (437, 23334), (468, 23403), (484, 23451), (503, 23466), (519, 23499), (544, 23538), (579, 23637),

Gene: DaviePasture_33 Start: 29342, Stop: 30391, Start Num: 112

Candidate Starts for DaviePasture_33:

(Start: 112 @29342 has 35 MA's), (174, 29456), (183, 29477), (221, 29552), (230, 29567), (260, 29630), (377, 29831), (386, 29855), (445, 30026), (539, 30239), (551, 30254), (564, 30299),

Gene: Deby_28 Start: 23290, Stop: 24303, Start Num: 117

Candidate Starts for Deby_28:

(Start: 117 @23290 has 228 MA's), (Start: 177 @23401 has 9 MA's), (244, 23515), (303, 23632), (335, 23686), (386, 23740), (419, 23818), (443, 23914), (451, 23926), (462, 23956), (468, 23965), (514, 24079), (551, 24148),

Gene: DeepSoil15_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for DeepSoil15_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: DelRio_28 Start: 24323, Stop: 25387, Start Num: 120

Candidate Starts for DelRio_28:

(Start: 120 @24323 has 14 MA's), (333, 24701), (402, 24842), (408, 24854), (412, 24866), (420, 24890), (438, 24974), (456, 25013), (493, 25121),

Gene: Demikore_38 Start: 32041, Stop: 33081, Start Num: 117

Candidate Starts for Demikore_38:

(Start: 117 @32041 has 228 MA's), (160, 32119), (194, 32197), (330, 32410), (333, 32416), (374, 32494), (412, 32587), (421, 32614),

Gene: Devera_28 Start: 23337, Stop: 24350, Start Num: 117

Candidate Starts for Devera_28:

(Start: 117 @23337 has 228 MA's), (Start: 177 @23448 has 9 MA's), (182, 23457), (244, 23562), (290, 23658), (303, 23679), (328, 23721), (335, 23733), (386, 23787), (419, 23865), (443, 23961), (451, 23973), (468, 24012), (514, 24126), (551, 24195), (580, 24291),

Gene: Dewey_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Dewey_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: Diabla_32 Start: 37690, Stop: 38598, Start Num: 201

Candidate Starts for Diabla_32:

(Start: 201 @37690 has 28 MA's), (273, 37825), (340, 37942), (375, 38005), (387, 38041), (439, 38209), (591, 38575), (593, 38581),

Gene: Diminimus_32 Start: 26991, Stop: 28046, Start Num: 117

Candidate Starts for Diminimus_32:

(Start: 117 @26991 has 228 MA's), (228, 27204), (252, 27240), (295, 27303), (335, 27375), (349, 27405), (362, 27426), (379, 27462), (394, 27498), (412, 27546), (419, 27567), (421, 27573), (424, 27603), (425, 27606), (439, 27654), (536, 27864), (560, 27918),

Gene: DismalFunk_25 Start: 21282, Stop: 22277, Start Num: 119

Candidate Starts for DismalFunk_25:

(38, 20961), (51, 21099), (68, 21198), (Start: 119 @21282 has 47 MA's), (164, 21363), (174, 21387), (205, 21447), (240, 21501), (244, 21507), (293, 21609), (295, 21612), (322, 21660), (328, 21666), (349, 21708), (386, 21732), (421, 21816), (440, 21900), (468, 21957), (587, 22254),

Gene: DismalStressor_25 Start: 21282, Stop: 22277, Start Num: 119

Candidate Starts for DismalStressor_25:

(51, 21099), (68, 21198), (Start: 119 @21282 has 47 MA's), (164, 21363), (174, 21387), (205, 21447), (240, 21501), (244, 21507), (293, 21609), (295, 21612), (322, 21660), (328, 21666), (349, 21708), (386, 21732), (421, 21816), (440, 21900), (468, 21957), (587, 22254),

Gene: Dogfish_30 Start: 26617, Stop: 27699, Start Num: 119

Candidate Starts for Dogfish_30:

(Start: 119 @26617 has 47 MA's), (221, 26827), (260, 26905), (299, 26959), (323, 27004), (357, 27061), (361, 27067), (390, 27130), (412, 27187), (417, 27202), (451, 27319),

Gene: Dole_28 Start: 23339, Stop: 24352, Start Num: 117

Candidate Starts for Dole_28:

(Start: 117 @23339 has 228 MA's), (Start: 177 @23450 has 9 MA's), (182, 23459), (244, 23564), (290, 23660), (303, 23681), (328, 23723), (335, 23735), (386, 23789), (419, 23867), (443, 23963), (451,

23975), (468, 24014), (514, 24128), (551, 24197), (580, 24293),

Gene: Donovan_22 Start: 21288, Stop: 22325, Start Num: 117

Candidate Starts for Donovan_22:

(106, 21264), (Start: 114 @21285 has 5 MA's), (Start: 117 @21288 has 228 MA's), (129, 21312), (198, 21450), (222, 21492), (261, 21561), (301, 21621), (327, 21666), (349, 21711), (390, 21792), (412, 21849), (420, 21873), (451, 21978), (475, 22050), (502, 22095), (578, 22260),

Gene: DoobyDoo_32 Start: 28492, Stop: 29541, Start Num: 112

Candidate Starts for DoobyDoo_32:

(Start: 112 @28492 has 35 MA's), (154, 28567), (174, 28606), (183, 28627), (221, 28702), (230, 28717), (260, 28780), (302, 28840), (361, 28942), (445, 29176), (551, 29404),

Gene: DoubleChamp_27 Start: 24040, Stop: 25104, Start Num: 117

Candidate Starts for DoubleChamp_27:

(Start: 117 @24040 has 228 MA's), (163, 24130), (174, 24157), (206, 24220), (237, 24268), (258, 24307), (266, 24325), (301, 24370), (323, 24409), (349, 24457), (361, 24475), (394, 24550), (420, 24616), (440, 24706), (441, 24709), (443, 24712), (458, 24745), (493, 24844), (496, 24847), (538, 24931), (543, 24943), (584, 25060),

Gene: Douge_21 Start: 21469, Stop: 22554, Start Num: 101

Candidate Starts for Douge_21:

(Start: 101 @21469 has 20 MA's), (142, 21547), (238, 21721), (254, 21760), (271, 21799), (289, 21832), (331, 21910), (347, 21943), (431, 22105), (519, 22339), (533, 22372), (547, 22396), (566, 22441),

Gene: Doughnut_25 Start: 21302, Stop: 22327, Start Num: 119

Candidate Starts for Doughnut_25:

(68, 21218), (Start: 119 @21302 has 47 MA's), (174, 21407), (205, 21467), (240, 21521), (244, 21527), (282, 21608), (284, 21614), (293, 21629), (295, 21632), (421, 21836), (587, 22295), (591, 22304),

Gene: DrHayes_28 Start: 23284, Stop: 24297, Start Num: 117

Candidate Starts for DrHayes_28:

(95, 23239), (Start: 117 @23284 has 228 MA's), (Start: 177 @23395 has 9 MA's), (244, 23509), (303, 23626), (328, 23668), (335, 23680), (386, 23734), (419, 23812), (443, 23908), (451, 23920), (468, 23959), (477, 23995), (551, 24142), (580, 24238),

Gene: DrLupo_39 Start: 30258, Stop: 31286, Start Num: 132

Candidate Starts for DrLupo_39:

(Start: 132 @30258 has 36 MA's), (199, 30393), (257, 30486), (324, 30609), (405, 30771), (411, 30786), (414, 30798), (443, 30900), (461, 30939), (489, 31032), (545, 31113), (551, 31128), (593, 31266),

Gene: Dulcita_32 Start: 26991, Stop: 28046, Start Num: 117

Candidate Starts for Dulcita_32:

(Start: 117 @26991 has 228 MA's), (228, 27204), (252, 27240), (295, 27303), (335, 27375), (349, 27405), (362, 27426), (379, 27462), (394, 27498), (412, 27546), (419, 27567), (421, 27573), (424, 27603), (425, 27606), (439, 27654), (536, 27864), (560, 27918),

Gene: DumpsterDude_23 Start: 21990, Stop: 23072, Start Num: 117

Candidate Starts for DumpsterDude_23:

(65, 21855), (Start: 117 @21990 has 228 MA's), (153, 22062), (221, 22200), (242, 22230), (301, 22338), (326, 22380), (357, 22434), (412, 22560),

Gene: Duplicity_22 Start: 20223, Stop: 21437, Start Num: 101

Candidate Starts for Duplicity_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: Durfee_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Durfee_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (Start: 177 @23467 has 9 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (451, 23992), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Dynamo_22 Start: 21688, Stop: 22722, Start Num: 117

Candidate Starts for Dynamo_22:

(Start: 117 @21688 has 228 MA's), (192, 21844), (198, 21850), (260, 21958), (261, 21961), (267, 21976), (327, 22063), (349, 22108), (390, 22189), (412, 22246), (420, 22270), (451, 22375), (475, 22447), (502, 22492),

Gene: EGUunicorn_22 Start: 20223, Stop: 21437, Start Num: 101

Candidate Starts for EGUunicorn_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: Edugator_27 Start: 24010, Stop: 25074, Start Num: 117

Candidate Starts for Edugator_27:

(Start: 117 @24010 has 228 MA's), (163, 24100), (175, 24130), (202, 24184), (206, 24190), (237, 24238), (258, 24277), (266, 24295), (267, 24298), (323, 24379), (349, 24427), (361, 24445), (420, 24586), (440, 24676), (441, 24679), (443, 24682), (458, 24715), (464, 24727), (493, 24814), (496, 24817), (584, 25030),

Gene: Efra2_28 Start: 22526, Stop: 23587, Start Num: 117

Candidate Starts for Efra2_28:

(Start: 117 @22526 has 228 MA's), (Start: 177 @22640 has 9 MA's), (244, 22754), (252, 22775), (291, 22853), (297, 22862), (309, 22883), (311, 22889), (398, 22997), (419, 23057), (447, 23177), (449, 23183), (450, 23189), (475, 23279), (535, 23405), (545, 23420),

Gene: Ein37_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Ein37_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: Ekdilam_25 Start: 23459, Stop: 24463, Start Num: 117

Candidate Starts for Ekdilam_25:

(Start: 117 @23459 has 228 MA's), (221, 23651), (236, 23672), (252, 23705), (265, 23738), (303, 23801), (400, 23933), (410, 23960), (440, 24074), (507, 24227), (551, 24320), (570, 24386),

Gene: Ellie_25 Start: 23458, Stop: 24465, Start Num: 117

Candidate Starts for Ellie_25:

(Start: 117 @23458 has 228 MA's), (168, 23548), (Start: 177 @23569 has 9 MA's), (221, 23650), (244, 23683), (252, 23704), (420, 23989), (428, 24028), (570, 24388), (593, 24448),

Gene: Emerson_28 Start: 23316, Stop: 24329, Start Num: 117

Candidate Starts for Emerson_28:

(27, 22872), (95, 23271), (Start: 117 @23316 has 228 MA's), (244, 23541), (303, 23658), (328, 23700), (335, 23712), (386, 23766), (419, 23844), (443, 23940), (451, 23952), (462, 23982), (468, 23991), (514, 24105), (551, 24174),

Gene: Emianna_44 Start: 35974, Stop: 37032, Start Num: 132

Candidate Starts for Emianna_44:

(3, 34534), (5, 34831), (9, 35062), (22, 35431), (64, 35809), (66, 35824), (71, 35842), (Start: 132 @35974 has 36 MA's), (307, 36319), (335, 36370), (362, 36418),

Gene: Enkosi_24 Start: 22900, Stop: 23907, Start Num: 119

Candidate Starts for Enkosi_24:

(94, 22849), (100, 22861), (Start: 119 @22900 has 47 MA's), (152, 22960), (190, 23032), (221, 23086), (236, 23107), (303, 23236), (330, 23281), (331, 23284), (384, 23341), (386, 23344), (408, 23389), (420, 23425), (443, 23521), (451, 23533), (500, 23653), (564, 23785),

Gene: Ennea_51 Start: 36974, Stop: 38035, Start Num: 132

Candidate Starts for Ennea_51:

(Start: 132 @36974 has 36 MA's), (222, 37160), (319, 37346), (321, 37349), (421, 37559),

Gene: Eponine_29 Start: 24914, Stop: 25987, Start Num: 114

Candidate Starts for Eponine_29:

(Start: 114 @24914 has 5 MA's), (Start: 117 @24917 has 228 MA's), (247, 25157), (261, 25193), (264, 25202), (267, 25208), (301, 25253), (327, 25298), (336, 25316), (349, 25343), (390, 25424), (412, 25481), (420, 25505),

Gene: Erutan_33 Start: 29002, Stop: 30048, Start Num: 112

Candidate Starts for Erutan_33:

(Start: 112 @29002 has 35 MA's), (174, 29116), (183, 29137), (221, 29212), (230, 29227), (260, 29290), (386, 29515), (445, 29686), (467, 29731), (551, 29914),

Gene: Estes_36 Start: 28017, Stop: 29099, Start Num: 92

Candidate Starts for Estes_36:

(89, 28011), (Start: 92 @28017 has 6 MA's), (133, 28092), (159, 28137), (163, 28143), (167, 28149), (172, 28167), (192, 28212), (200, 28227), (208, 28242), (223, 28266), (238, 28287), (261, 28341), (263, 28347), (280, 28377), (354, 28521),

Gene: Etoile_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for Etoile_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412, 21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: Evanesce_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Evanesce_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47

MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: EvilGenius_34 Start: 25671, Stop: 26591, Start Num: 177

Candidate Starts for EvilGenius_34:

(Start: 177 @25671 has 9 MA's), (238, 25779), (289, 25881), (299, 25902), (333, 25965), (419, 26097), (533, 26379), (586, 26529), (598, 26586),

Gene: Ewald_30 Start: 26639, Stop: 27724, Start Num: 117

Candidate Starts for Ewald_30:

(65, 26504), (Start: 117 @26639 has 228 MA's), (170, 26744), (178, 26762), (221, 26849), (343, 27062), (351, 27077), (371, 27104), (375, 27119), (412, 27212), (417, 27227), (431, 27284), (451, 27344), (464, 27377),

Gene: FF47_25 Start: 21654, Stop: 22679, Start Num: 111

Candidate Starts for FF47_25:

(Start: 111 @21654 has 2 MA's), (160, 21744), (194, 21813), (199, 21822), (252, 21900), (296, 21963), (298, 21966), (374, 22110), (386, 22146), (423, 22254), (521, 22491), (571, 22617),

Gene: Farewell_21 Start: 21884, Stop: 22930, Start Num: 117

Candidate Starts for Farewell_21:

(Start: 117 @21884 has 228 MA's), (214, 22076), (228, 22097), (301, 22208), (327, 22250), (329, 22253), (419, 22454), (424, 22490), (466, 22598), (536, 22751), (541, 22760), (548, 22772),

Gene: FarmResident_21 Start: 21591, Stop: 22598, Start Num: 142

Candidate Starts for FarmResident_21:

(Start: 101 @21513 has 20 MA's), (142, 21591), (238, 21765), (254, 21804), (271, 21843), (287, 21873), (289, 21876), (331, 21954), (347, 21987), (431, 22149), (519, 22383), (533, 22416), (547, 22440), (566, 22485),

Gene: Fefferhead_27 Start: 23613, Stop: 24665, Start Num: 117

Candidate Starts for Fefferhead_27:

(83, 23577), (Start: 117 @23613 has 228 MA's), (168, 23703), (Start: 177 @23724 has 9 MA's), (190, 23751), (244, 23838), (252, 23859), (260, 23880), (368, 24069), (400, 24147), (420, 24204), (423, 24237), (431, 24252), (545, 24507), (551, 24522), (571, 24603), (591, 24642),

Gene: FelixAlejandro_34 Start: 38037, Stop: 38939, Start Num: 201

Candidate Starts for FelixAlejandro_34:

(Start: 201 @38037 has 28 MA's), (273, 38172), (292, 38205), (325, 38256), (340, 38283), (387, 38382), (420, 38463), (435, 38517), (529, 38754), (581, 38880), (593, 38922),

Gene: Feyre_27 Start: 23851, Stop: 24918, Start Num: 117

Candidate Starts for Feyre_27:

(Start: 117 @23851 has 228 MA's), (174, 23968), (232, 24073), (237, 24079), (267, 24139), (277, 24154), (301, 24181), (323, 24220), (327, 24223), (333, 24235), (335, 24238), (336, 24241), (343, 24256), (371, 24301), (373, 24307), (394, 24361), (412, 24409), (422, 24439), (433, 24484), (501, 24667),

Gene: Findley_25 Start: 21282, Stop: 22307, Start Num: 119

Candidate Starts for Findley_25:

(51, 21099), (68, 21198), (Start: 119 @21282 has 47 MA's), (164, 21363), (174, 21387), (205, 21447), (240, 21501), (244, 21507), (282, 21588), (284, 21594), (293, 21609), (295, 21612), (421, 21816), (587, 22275), (591, 22284),

Gene: Fionnbharth_29 Start: 24586, Stop: 25590, Start Num: 117

Candidate Starts for Fionnbharth_29:

(Start: 117 @24586 has 228 MA's), (Start: 156 @24655 has 1 MA's), (209, 24754), (240, 24799), (244, 24805), (265, 24859), (271, 24868), (294, 24904), (313, 24949), (330, 24970), (333, 24976), (335, 24979), (419, 25111), (420, 25114), (457, 25237), (468, 25258), (576, 25525),

Gene: FirstPlacePfu_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for FirstPlacePfu_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412, 21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: Fishburne_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for Fishburne_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412, 21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: FlagStaff_23 Start: 23102, Stop: 24469, Start Num: 93

Candidate Starts for FlagStaff_23:

(79, 23078), (Start: 93 @23102 has 4 MA's), (159, 23225), (171, 23252), (186, 23282), (200, 23312), (231, 23363), (255, 23408), (256, 23411), (268, 23438), (286, 23471), (355, 23597), (397, 23687), (472, 23924), (479, 23969), (481, 23978), (517, 24044),

Gene: Flapper_49 Start: 36682, Stop: 37743, Start Num: 130

Candidate Starts for Flapper_49:

(48, 36406), (102, 36619), (Start: 130 @36682 has 3 MA's), (181, 36790), (220, 36868), (276, 36976), (321, 37060), (335, 37081), (338, 37087), (353, 37114), (437, 37342), (466, 37408), (578, 37672), (591, 37717),

Gene: Float294_47 Start: 36416, Stop: 37477, Start Num: 132

Candidate Starts for Float294_47:

(Start: 132 @36416 has 36 MA's), (222, 36602), (319, 36788), (321, 36791), (421, 37001), (556, 37340), (578, 37406),

Gene: Forge_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Forge_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: Foxboro_45 Start: 36480, Stop: 37538, Start Num: 132

Candidate Starts for Foxboro_45:

(3, 35040), (5, 35337), (9, 35568), (22, 35937), (64, 36315), (66, 36330), (71, 36348), (Start: 132 @36480 has 36 MA's), (307, 36825), (335, 36876), (362, 36924),

Gene: Francois_27 Start: 23338, Stop: 24405, Start Num: 120

Candidate Starts for Francois_27:

(Start: 120 @23338 has 14 MA's), (333, 23716), (402, 23857), (412, 23884), (420, 23908), (438, 23992), (493, 24139),

Gene: FreakyGoo_32 Start: 26992, Stop: 28047, Start Num: 117

Candidate Starts for FreakyGoo_32:

(Start: 117 @26992 has 228 MA's), (228, 27205), (252, 27241), (295, 27304), (335, 27376), (349, 27406), (362, 27427), (379, 27463), (394, 27499), (412, 27547), (419, 27568), (421, 27574), (424, 27604), (425, 27607), (439, 27655), (528, 27844), (536, 27865), (560, 27919),

Gene: Fulcrum_34 Start: 29520, Stop: 30569, Start Num: 112

Candidate Starts for Fulcrum_34:

(Start: 112 @29520 has 35 MA's), (174, 29634), (183, 29655), (221, 29730), (230, 29745), (260, 29808), (302, 29868), (361, 29970), (386, 30033), (445, 30204), (551, 30432),

Gene: Fury_53 Start: 35397, Stop: 36479, Start Num: 132

Candidate Starts for Fury_53:

(Start: 132 @35397 has 36 MA's), (187, 35514), (302, 35742), (346, 35826), (349, 35832), (373, 35871), (377, 35886), (394, 35928), (445, 36093), (516, 36273), (578, 36411),

Gene: GOATification_34 Start: 29520, Stop: 30569, Start Num: 112

Candidate Starts for GOATification_34:

(Start: 112 @29520 has 35 MA's), (174, 29634), (183, 29655), (221, 29730), (230, 29745), (260, 29808), (302, 29868), (361, 29970), (386, 30033), (445, 30204), (551, 30432),

Gene: GRU1_34 Start: 28214, Stop: 29290, Start Num: 130

Candidate Starts for GRU1_34:

(64, 28052), (Start: 130 @28214 has 3 MA's), (181, 28322), (205, 28373), (220, 28400), (276, 28508), (321, 28592), (335, 28613), (338, 28619), (353, 28646), (437, 28874), (556, 29153), (591, 29264),

Gene: GTE5_36 Start: 29539, Stop: 30600, Start Num: 130

Candidate Starts for GTE5_36:

(102, 29476), (Start: 130 @29539 has 3 MA's), (181, 29647), (220, 29725), (276, 29833), (321, 29917), (335, 29938), (342, 29950), (353, 29971), (354, 29974), (578, 30529), (591, 30574),

Gene: GTE8_33 Start: 29229, Stop: 30287, Start Num: 128

Candidate Starts for GTE8_33:

(64, 29067), (Start: 128 @29229 has 2 MA's), (243, 29445), (336, 29628), (578, 30216), (591, 30261),

Gene: Gail_32 Start: 24477, Stop: 25421, Start Num: 177

Candidate Starts for Gail_32:

(Start: 177 @24477 has 9 MA's), (233, 24582), (238, 24588), (245, 24600), (258, 24636), (299, 24711), (333, 24774), (335, 24777), (336, 24780), (420, 24915), (583, 25371),

Gene: GalacticEye_30 Start: 38068, Stop: 38970, Start Num: 201

Candidate Starts for GalacticEye_30:

(Start: 201 @38068 has 28 MA's), (273, 38206), (311, 38275), (340, 38323), (375, 38386), (387, 38422), (439, 38590), (557, 38842), (591, 38947),

Gene: GaloreK_22 Start: 21295, Stop: 22332, Start Num: 117

Candidate Starts for GaloreK_22:

(106, 21271), (Start: 114 @21292 has 5 MA's), (Start: 117 @21295 has 228 MA's), (129, 21319), (198, 21457), (222, 21499), (261, 21568), (301, 21628), (327, 21673), (349, 21718), (390, 21799), (412, 21856), (420, 21880), (451, 21985), (475, 22057), (502, 22102), (578, 22267),

Gene: Gancho_26 Start: 23095, Stop: 24333, Start Num: 58

Candidate Starts for Gancho_26:

(10, 22483), (11, 22549), (16, 22642), (25, 22792), (33, 22879), (34, 22882), (47, 23020), (Start: 58 @23095 has 22 MA's), (81, 23191), (96, 23218), (98, 23224), (Start: 119 @23263 has 47 MA's), (124, 23272), (Start: 146 @23317 has 1 MA's), (150, 23329), (172, 23368), (200, 23425), (236, 23476), (245, 23491), (260, 23530), (282, 23563), (294, 23584), (297, 23590), (315, 23626), (325, 23638), (328, 23641), (353, 23689), (357, 23695), (359, 23698), (364, 23707), (419, 23845), (443, 23938), (470, 23995), (471, 24001), (496, 24085), (508, 24100), (509, 24103), (547, 24169), (558, 24202),

Gene: Ganymede_29 Start: 23336, Stop: 24349, Start Num: 117

Candidate Starts for Ganymede_29:

(27, 22892), (95, 23291), (Start: 117 @23336 has 228 MA's), (Start: 177 @23447 has 9 MA's), (244, 23561), (303, 23678), (328, 23720), (335, 23732), (354, 23771), (386, 23786), (419, 23864), (438, 23948), (443, 23960), (451, 23972), (468, 24011), (514, 24125), (551, 24194),

Gene: GardenSalsa_35 Start: 27841, Stop: 28923, Start Num: 92

Candidate Starts for GardenSalsa_35:

(89, 27835), (Start: 92 @27841 has 6 MA's), (133, 27916), (159, 27961), (163, 27967), (167, 27973), (172, 27991), (192, 28036), (200, 28051), (208, 28066), (223, 28090), (238, 28111), (261, 28165), (263, 28171), (280, 28201), (354, 28345), (394, 28381), (583, 28879),

Gene: Gavriela_22 Start: 21561, Stop: 22601, Start Num: 117

Candidate Starts for Gavriela_22:

(Start: 117 @21561 has 228 MA's), (192, 21720), (198, 21726), (222, 21768), (260, 21834), (261, 21837), (301, 21897), (327, 21942), (349, 21987), (390, 22068), (412, 22125), (420, 22149), (451, 22254), (475, 22326), (502, 22371),

Gene: Genamy16_33 Start: 27521, Stop: 28618, Start Num: 112

Candidate Starts for Genamy16_33:

(Start: 112 @27521 has 35 MA's), (174, 27635), (233, 27728), (251, 27761), (252, 27764), (253, 27767), (260, 27785), (261, 27788), (266, 27800), (302, 27848), (336, 27911), (365, 27965), (403, 28061), (417, 28103), (483, 28337), (510, 28376), (552, 28463), (596, 28610),

Gene: GenevaB15_35 Start: 27886, Stop: 28968, Start Num: 92

Candidate Starts for GenevaB15_35:

(80, 27865), (89, 27880), (Start: 92 @27886 has 6 MA's), (133, 27961), (159, 28006), (163, 28012), (167, 28018), (172, 28036), (Start: 177 @28045 has 9 MA's), (200, 28096), (208, 28111), (223, 28135), (238, 28156), (261, 28210), (263, 28216), (291, 28270), (394, 28426), (555, 28837),

Gene: Gengar_27 Start: 23958, Stop: 25028, Start Num: 117

Candidate Starts for Gengar_27:

(Start: 117 @23958 has 228 MA's), (202, 24132), (237, 24186), (266, 24243), (267, 24246), (277, 24261), (301, 24288), (323, 24327), (327, 24330), (333, 24342), (335, 24345), (336, 24348), (373, 24417), (394, 24471), (422, 24549), (433, 24594), (501, 24777),

Gene: Geraldini_28 Start: 23332, Stop: 24345, Start Num: 117

Candidate Starts for Geraldini_28:

(27, 22888), (95, 23287), (Start: 117 @23332 has 228 MA's), (Start: 177 @23443 has 9 MA's), (240, 23551), (244, 23557), (303, 23674), (328, 23716), (335, 23728), (386, 23782), (419, 23860), (438,

23944), (443, 23956), (451, 23968), (468, 24007), (514, 24121), (551, 24190),

Gene: Gex_22 Start: 20219, Stop: 21433, Start Num: 101

Candidate Starts for Gex_22:

(37, 19889), (Start: 59 @20087 has 1 MA's), (Start: 99 @20216 has 6 MA's), (Start: 101 @20219 has 20 MA's), (233, 20480), (315, 20651), (389, 20801), (406, 20840), (436, 20942), (440, 20984), (575, 21356),

Gene: Gibbin_34 Start: 29619, Stop: 30668, Start Num: 112

Candidate Starts for Gibbin_34:

(Start: 112 @29619 has 35 MA's), (174, 29733), (192, 29775), (221, 29829), (230, 29844), (260, 29907), (445, 30303), (467, 30348), (493, 30438), (551, 30531),

Gene: Giles_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Giles_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: Glaske_22 Start: 21561, Stop: 22601, Start Num: 117

Candidate Starts for Glaske_22:

(Start: 117 @21561 has 228 MA's), (192, 21720), (198, 21726), (222, 21768), (260, 21834), (261, 21837), (301, 21897), (327, 21942), (349, 21987), (390, 22068), (412, 22125), (420, 22149), (451, 22254), (475, 22326), (502, 22371),

Gene: Glaske16_32 Start: 26991, Stop: 28046, Start Num: 117

Candidate Starts for Glaske16_32:

(Start: 117 @26991 has 228 MA's), (228, 27204), (252, 27240), (295, 27303), (335, 27375), (349, 27405), (362, 27426), (379, 27462), (394, 27498), (412, 27546), (419, 27567), (421, 27573), (424, 27603), (425, 27606), (439, 27654), (536, 27864), (560, 27918),

Gene: GodSpeed_24 Start: 23148, Stop: 24509, Start Num: 93

Candidate Starts for GodSpeed_24:

(Start: 93 @23148 has 4 MA's), (159, 23271), (171, 23298), (183, 23322), (225, 23400), (231, 23409), (255, 23454), (266, 23481), (333, 23601), (360, 23649), (397, 23733), (481, 24024), (517, 24090), (597, 24300), (600, 24480),

Gene: GrandSlam_27 Start: 23849, Stop: 24916, Start Num: 120

Candidate Starts for GrandSlam_27:

(Start: 120 @23849 has 14 MA's), (333, 24227), (402, 24368), (408, 24383), (412, 24395), (420, 24419), (438, 24503), (440, 24509), (456, 24542), (460, 24554), (493, 24650), (496, 24653), (510, 24674),

Gene: Gravaillia_27 Start: 23101, Stop: 24339, Start Num: 58

Candidate Starts for Gravaillia_27:

(10, 22489), (11, 22555), (15, 22645), (16, 22648), (25, 22798), (33, 22885), (34, 22888), (47, 23026), (Start: 58 @23101 has 22 MA's), (81, 23197), (96, 23224), (98, 23230), (Start: 119 @23269 has 47 MA's), (124, 23278), (Start: 146 @23323 has 1 MA's), (150, 23335), (172, 23374), (200, 23431), (236, 23482), (245, 23497), (260, 23536), (282, 23569), (294, 23590), (297, 23596), (315, 23632), (325,

23644), (328, 23647), (353, 23695), (357, 23701), (359, 23704), (364, 23713), (419, 23851), (443, 23944), (470, 24001), (471, 24007), (496, 24091), (508, 24106), (509, 24109), (547, 24175), (558, 24208),

Gene: GretellYn_33 Start: 29878, Stop: 30933, Start Num: 112

Candidate Starts for GretellYn_33:

(Start: 112 @29878 has 35 MA's), (174, 29992), (192, 30034), (221, 30088), (230, 30103), (260, 30166), (302, 30226), (361, 30328), (386, 30391), (445, 30562), (551, 30796),

Gene: GrootJr_46 Start: 35356, Stop: 36414, Start Num: 132

Candidate Starts for GrootJr_46:

(3, 33916), (5, 34213), (9, 34444), (22, 34813), (64, 35191), (66, 35206), (71, 35224), (Start: 132 @35356 has 36 MA's), (307, 35701), (335, 35752), (362, 35800),

Gene: Gspu1_26 Start: 21693, Stop: 22775, Start Num: 103

Candidate Starts for Gspu1_26:

(103, 21693), (184, 21855), (211, 21903), (221, 21915), (282, 22017), (315, 22077), (338, 22110), (345, 22125), (372, 22164), (404, 22248), (416, 22278), (420, 22290), (468, 22437), (515, 22563), (545, 22620), (587, 22743),

Gene: Guanica15_28 Start: 22542, Stop: 23603, Start Num: 117

Candidate Starts for Guanica15_28:

(Start: 117 @22542 has 228 MA's), (Start: 177 @22656 has 9 MA's), (244, 22770), (252, 22791), (297, 22878), (309, 22899), (311, 22905), (398, 23013), (419, 23073), (447, 23193), (449, 23199), (450, 23205), (475, 23295), (535, 23421), (545, 23436),

Gene: Guillsminger_27 Start: 23933, Stop: 25000, Start Num: 117

Candidate Starts for Guillsminger_27:

(Start: 117 @23933 has 228 MA's), (174, 24050), (202, 24107), (232, 24155), (237, 24161), (266, 24218), (267, 24221), (277, 24236), (301, 24263), (323, 24302), (327, 24305), (333, 24317), (335, 24320), (336, 24323), (343, 24338), (371, 24383), (373, 24389), (394, 24443), (412, 24491), (422, 24521), (433, 24566), (475, 24695), (501, 24749),

Gene: HC_22 Start: 21369, Stop: 22406, Start Num: 117

Candidate Starts for HC_22:

(106, 21345), (Start: 114 @21366 has 5 MA's), (Start: 117 @21369 has 228 MA's), (129, 21393), (198, 21531), (222, 21573), (261, 21642), (301, 21702), (327, 21747), (349, 21792), (390, 21873), (412, 21930), (420, 21954), (451, 22059), (475, 22131), (502, 22176), (578, 22341),

Gene: HH92_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for HH92_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: HUHilltop_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for HUHilltop_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412,

21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: Hadrien_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Hadrien_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: Hail_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Hail_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: Hail2Pitt_30 Start: 38595, Stop: 39497, Start Num: 201

Candidate Starts for Hail2Pitt_30:

(Start: 201 @38595 has 28 MA's), (273, 38733), (311, 38802), (340, 38850), (375, 38913), (387, 38949), (393, 38958), (439, 39117), (550, 39351), (557, 39369), (591, 39474),

Gene: Hammy_27 Start: 23691, Stop: 24695, Start Num: 117

Candidate Starts for Hammy_27:

(Start: 117 @23691 has 228 MA's), (269, 23976), (303, 24033), (400, 24165), (410, 24192), (440, 24306), (507, 24459), (551, 24552), (553, 24555), (570, 24618), (577, 24630),

Gene: Hamood_27 Start: 23849, Stop: 24916, Start Num: 120

Candidate Starts for Hamood_27:

(Start: 120 @23849 has 14 MA's), (333, 24227), (402, 24368), (408, 24383), (412, 24395), (420, 24419), (438, 24503), (440, 24509), (456, 24542), (460, 24554), (493, 24650), (496, 24653), (510, 24674),

Gene: Harambe_30 Start: 38385, Stop: 39287, Start Num: 201

Candidate Starts for Harambe_30:

(Start: 201 @38385 has 28 MA's), (273, 38523), (311, 38592), (340, 38640), (375, 38703), (387, 38739), (439, 38907), (550, 39141), (557, 39159), (591, 39264),

Gene: Hashim76_35 Start: 31239, Stop: 32393, Start Num: 73

Candidate Starts for Hashim76_35:

(Start: 73 @31239 has 8 MA's), (126, 31356), (161, 31416), (170, 31437), (174, 31446), (190, 31485), (195, 31494), (225, 31545), (257, 31605), (272, 31632), (295, 31674), (309, 31704), (338, 31752), (383, 31854), (391, 31866), (420, 31941), (444, 32037), (458, 32067), (468, 32085), (476, 32121), (536, 32223),

Gene: HedwigODU_28 Start: 23325, Stop: 24338, Start Num: 117

Candidate Starts for HedwigODU_28:

(27, 22881), (43, 23028), (95, 23280), (Start: 117 @23325 has 228 MA's), (Start: 177 @23436 has 9 MA's), (244, 23550), (303, 23667), (328, 23709), (335, 23721), (386, 23775), (419, 23853), (443, 23949), (451, 23961), (462, 23991), (468, 24000), (514, 24114), (551, 24183),

Gene: Heftyboy_27 Start: 24081, Stop: 25148, Start Num: 117

Candidate Starts for Heftyboy_27:

(Start: 117 @24081 has 228 MA's), (174, 24198), (202, 24255), (232, 24303), (237, 24309), (266, 24366), (267, 24369), (277, 24384), (301, 24411), (323, 24450), (327, 24453), (333, 24465), (335, 24468), (336, 24471), (343, 24486), (371, 24531), (373, 24537), (394, 24591), (412, 24639), (422, 24669), (433, 24714), (475, 24843), (501, 24897),

Gene: Hello_30 Start: 38347, Stop: 39249, Start Num: 201

Candidate Starts for Hello_30:

(Start: 201 @38347 has 28 MA's), (273, 38485), (311, 38554), (340, 38602), (375, 38665), (387, 38701), (439, 38869), (557, 39121), (591, 39226),

Gene: Hilltopfarm_28 Start: 26055, Stop: 27092, Start Num: 117

Candidate Starts for Hilltopfarm_28:

(Start: 117 @26055 has 228 MA's), (Start: 177 @26178 has 9 MA's), (206, 26232), (228, 26268), (264, 26331), (301, 26379), (333, 26433), (335, 26436), (419, 26622), (424, 26658), (437, 26700), (443, 26718), (468, 26769),

Gene: HomeFry_50 Start: 34029, Stop: 35111, Start Num: 132

Candidate Starts for HomeFry_50:

(Start: 132 @34029 has 36 MA's), (187, 34146), (285, 34341), (396, 34566),

Gene: Homura_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Homura_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (Start: 177 @23467 has 9 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (451, 23992), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: HubbaBubba_42 Start: 31720, Stop: 32760, Start Num: 130

Candidate Starts for HubbaBubba_42:

(Start: 130 @31720 has 3 MA's), (192, 31852), (285, 32035), (387, 32242), (393, 32251), (419, 32320), (420, 32323), (438, 32407), (503, 32560), (540, 32644), (545, 32653), (547, 32656), (572, 32752),

Gene: Hurricane_28 Start: 23950, Stop: 24975, Start Num: 119

Candidate Starts for Hurricane_28:

(20, 23398), (21, 23464), (26, 23527), (29, 23560), (35, 23602), (51, 23761), (68, 23860), (85, 23917), (Start: 119 @23950 has 47 MA's), (188, 24073), (190, 24082), (205, 24109), (236, 24157), (244, 24169), (252, 24190), (276, 24241), (294, 24271), (402, 24424), (410, 24445), (427, 24517), (438, 24553), (445, 24568), (464, 24610), (468, 24616), (497, 24706), (545, 24805), (547, 24808), (575, 24907), (593, 24958),

Gene: Hyperbowlee_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Hyperbowlee_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (Start: 177 @23467 has 9 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (451, 23992), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: IPHane7_31 Start: 26992, Stop: 28047, Start Num: 117

Candidate Starts for IPHane7_31:

(Start: 117 @26992 has 228 MA's), (228, 27205), (252, 27241), (295, 27304), (335, 27376), (349, 27406), (362, 27427), (379, 27463), (394, 27499), (412, 27547), (419, 27568), (421, 27574), (424, 27604), (425, 27607), (439, 27655), (528, 27844), (536, 27865), (560, 27919),

Gene: IdentityCrisis_21 Start: 19031, Stop: 20086, Start Num: 117

Candidate Starts for IdentityCrisis_21:

(Start: 117 @19031 has 228 MA's), (174, 19148), (267, 19322), (343, 19439), (346, 19445), (420, 19610), (443, 19703), (466, 19751), (476, 19787), (526, 19880),

Gene: Illumine_28 Start: 23339, Stop: 24352, Start Num: 117

Candidate Starts for Illumine_28:

(Start: 117 @23339 has 228 MA's), (Start: 177 @23450 has 9 MA's), (182, 23459), (244, 23564), (290, 23660), (303, 23681), (328, 23723), (335, 23735), (386, 23789), (419, 23867), (443, 23963), (451, 23975), (468, 24014), (514, 24128), (551, 24197), (580, 24293),

Gene: Impisi_22 Start: 20207, Stop: 21247, Start Num: 117

Candidate Starts for Impisi_22:

(Start: 117 @20207 has 228 MA's), (198, 20372), (222, 20414), (261, 20483), (301, 20543), (327, 20588), (349, 20633), (382, 20702), (390, 20714), (412, 20771), (420, 20795), (451, 20900), (475, 20972), (502, 21017),

Gene: Imvubu_25 Start: 28919, Stop: 30094, Start Num: 73

Candidate Starts for Imvubu_25:

(Start: 73 @28919 has 8 MA's), (Start: 113 @29009 has 4 MA's), (126, 29036), (142, 29057), (170, 29117), (174, 29126), (190, 29165), (195, 29174), (205, 29192), (225, 29225), (257, 29285), (295, 29354), (304, 29372), (315, 29399), (327, 29414), (335, 29426), (383, 29534), (503, 29858), (546, 29933), (555, 29954), (563, 29984), (591, 30071),

Gene: Indlovu_29 Start: 31250, Stop: 32386, Start Num: 73

Candidate Starts for Indlovu_29:

(64, 31217), (Start: 73 @31250 has 8 MA's), (126, 31367), (170, 31448), (Start: 177 @31463 has 9 MA's), (190, 31496), (195, 31505), (231, 31565), (250, 31595), (258, 31619), (319, 31736), (391, 31877), (431, 31985), (451, 32042),

Gene: Indlulamithi_28 Start: 26439, Stop: 27758, Start Num: 57

Candidate Starts for Indlulamithi_28:

(Start: 57 @26439 has 1 MA's), (104, 26598), (Start: 132 @26655 has 36 MA's), (137, 26661), (164, 26718), (166, 26721), (188, 26775), (212, 26829), (281, 26961), (317, 27036), (330, 27054), (339, 27072), (436, 27339), (461, 27414), (491, 27513), (565, 27633),

Gene: Inky_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Inky_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: InvictusManeo_27 Start: 24083, Stop: 25147, Start Num: 117

Candidate Starts for InvictusManeo_27:

(Start: 117 @24083 has 228 MA's), (163, 24173), (174, 24200), (206, 24263), (237, 24311), (258, 24350), (266, 24368), (301, 24413), (323, 24452), (349, 24500), (361, 24518), (394, 24593), (420, 24659), (440, 24749), (441, 24752), (443, 24755), (458, 24788), (493, 24887), (496, 24890), (538, 24974), (543, 24986), (584, 25103),

Gene: Izel_32 Start: 26991, Stop: 28046, Start Num: 117

Candidate Starts for Izel_32:

(Start: 117 @26991 has 228 MA's), (228, 27204), (252, 27240), (295, 27303), (335, 27375), (349, 27405), (362, 27426), (379, 27462), (394, 27498), (412, 27546), (419, 27567), (421, 27573), (424, 27603), (425, 27606), (439, 27654), (536, 27864), (560, 27918),

Gene: JAWS_28 Start: 23310, Stop: 24323, Start Num: 117

Candidate Starts for JAWS_28:

(27, 22866), (95, 23265), (Start: 117 @23310 has 228 MA's), (Start: 177 @23421 has 9 MA's), (244, 23535), (303, 23652), (328, 23694), (335, 23706), (386, 23760), (419, 23838), (443, 23934), (462, 23976), (468, 23985), (514, 24099), (551, 24168),

Gene: JF1_29 Start: 24585, Stop: 25589, Start Num: 117

Candidate Starts for JF1_29:

(Start: 117 @24585 has 228 MA's), (Start: 156 @24654 has 1 MA's), (209, 24753), (240, 24798), (244, 24804), (265, 24858), (271, 24867), (294, 24903), (313, 24948), (330, 24969), (333, 24975), (335, 24978), (419, 25110), (420, 25113), (457, 25236), (468, 25257), (576, 25524),

Gene: Jalebi_32 Start: 30054, Stop: 31103, Start Num: 112

Candidate Starts for Jalebi_32:

(Start: 112 @30054 has 35 MA's), (174, 30168), (183, 30189), (221, 30264), (230, 30279), (260, 30342), (302, 30402), (361, 30504), (386, 30567), (445, 30738), (551, 30966),

Gene: Jamemuya19_30 Start: 27111, Stop: 28208, Start Num: 112

Candidate Starts for Jamemuya19_30:

(Start: 112 @27111 has 35 MA's), (174, 27225), (233, 27318), (251, 27351), (252, 27354), (253, 27357), (261, 27378), (266, 27390), (302, 27438), (336, 27501), (365, 27555), (403, 27651), (417, 27693), (483, 27927), (510, 27966), (552, 28053), (596, 28200),

Gene: Jams_30 Start: 37556, Stop: 38458, Start Num: 201

Candidate Starts for Jams_30:

(Start: 201 @37556 has 28 MA's), (273, 37694), (311, 37763), (340, 37811), (375, 37874), (387, 37910), (439, 38078), (557, 38330), (591, 38435),

Gene: Jarvi_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Jarvi_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Jayhawk_28 Start: 23323, Stop: 24336, Start Num: 117

Candidate Starts for Jayhawk_28:

(27, 22879), (43, 23026), (95, 23278), (Start: 117 @23323 has 228 MA's), (Start: 177 @23434 has 9 MA's), (244, 23548), (303, 23665), (328, 23707), (335, 23719), (386, 23773), (419, 23851), (443, 23947), (451, 23959), (462, 23989), (468, 23998), (514, 24112), (551, 24181),

Gene: Jebeks_22 Start: 21284, Stop: 22321, Start Num: 117

Candidate Starts for Jebeks_22:

(106, 21260), (Start: 114 @21281 has 5 MA's), (Start: 117 @21284 has 228 MA's), (129, 21308), (198, 21446), (222, 21488), (261, 21557), (301, 21617), (327, 21662), (349, 21707), (390, 21788), (412, 21845), (420, 21869), (451, 21974), (475, 22046), (502, 22091), (578, 22256),

Gene: Jeckyll_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Jeckyll_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Jifall16_43 Start: 35628, Stop: 36686, Start Num: 132

Candidate Starts for Jifall16_43:

(3, 34188), (5, 34485), (9, 34716), (22, 35085), (64, 35463), (66, 35478), (71, 35496), (Start: 132 @35628 has 36 MA's), (307, 35973), (335, 36024), (362, 36072),

Gene: Jormungandr_30 Start: 38100, Stop: 39002, Start Num: 201

Candidate Starts for Jormungandr_30:

(Start: 201 @38100 has 28 MA's), (273, 38238), (311, 38307), (340, 38355), (375, 38418), (387, 38454), (439, 38622), (550, 38856), (557, 38874), (591, 38979),

Gene: Journey_22 Start: 20223, Stop: 21437, Start Num: 101

Candidate Starts for Journey_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: Joy99_28 Start: 23285, Stop: 24298, Start Num: 117

Candidate Starts for Joy99_28:

(27, 22841), (95, 23240), (Start: 117 @23285 has 228 MA's), (244, 23510), (303, 23627), (328, 23669), (335, 23681), (386, 23735), (419, 23813), (443, 23909), (462, 23951), (468, 23960), (514, 24074), (551, 24143),

Gene: Juliette_30 Start: 24531, Stop: 25565, Start Num: 115

Candidate Starts for Juliette_30:

(80, 24465), (Start: 115 @24531 has 6 MA's), (192, 24687), (196, 24690), (222, 24735), (228, 24744), (267, 24819), (327, 24906), (349, 24951), (390, 25032), (412, 25089), (420, 25113), (451, 25218), (475, 25290), (511, 25350), (578, 25500),

Gene: Jumbo_25 Start: 36377, Stop: 37471, Start Num: 113

Candidate Starts for Jumbo_25:

(Start: 113 @36377 has 4 MA's), (170, 36485), (244, 36602), (296, 36689), (377, 36851), (412, 36944), (419, 36965), (440, 37052), (552, 37319),

Gene: Jung_22 Start: 21225, Stop: 22292, Start Num: 117

Candidate Starts for Jung_22:

(106, 21201), (Start: 114 @21222 has 5 MA's), (Start: 117 @21225 has 228 MA's), (129, 21249), (192, 21381), (198, 21387), (222, 21429), (260, 21495), (261, 21498), (301, 21558), (327, 21603), (349, 21648), (390, 21729), (412, 21786), (420, 21810), (426, 21852), (474, 21981), (479, 22002),

Gene: Juniormint_22 Start: 21325, Stop: 22380, Start Num: 117

Candidate Starts for Juniormint_22:

(106, 21301), (Start: 114 @21322 has 5 MA's), (Start: 117 @21325 has 228 MA's), (129, 21349), (198, 21487), (222, 21529), (261, 21598), (301, 21676), (327, 21721), (349, 21766), (390, 21847), (412, 21904), (420, 21928), (451, 22033), (475, 22105), (502, 22150), (578, 22315),

Gene: JustASigh_22 Start: 22794, Stop: 23885, Start Num: 69

Candidate Starts for JustASigh_22:

(53, 22689), (Start: 69 @22794 has 2 MA's), (192, 23058), (271, 23202), (275, 23211), (348, 23322), (442, 23547), (584, 23841), (591, 23862),

Gene: Kabluna_48 Start: 35054, Stop: 36109, Start Num: 132

Candidate Starts for Kabluna_48:

(102, 34991), (Start: 132 @35054 has 36 MA's), (243, 35267), (336, 35450), (451, 35738), (591, 36083),

Gene: Kari_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for Kari_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412, 21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: Kaseim_30 Start: 37541, Stop: 38443, Start Num: 201

Candidate Starts for Kaseim_30:

(Start: 201 @37541 has 28 MA's), (273, 37679), (311, 37748), (340, 37796), (375, 37859), (387, 37895), (439, 38063), (557, 38315), (591, 38420),

Gene: Keshu_28 Start: 23942, Stop: 24964, Start Num: 119

Candidate Starts for Keshu_28:

(51, 23753), (68, 23852), (85, 23909), (Start: 119 @23942 has 47 MA's), (200, 24092), (236, 24149), (276, 24233), (294, 24263), (410, 24434), (420, 24464), (464, 24599), (494, 24692), (497, 24695), (507, 24716), (545, 24794), (568, 24863), (571, 24893),

Gene: Kevin1_22 Start: 19999, Stop: 21036, Start Num: 115

Candidate Starts for Kevin1_22:

(80, 19933), (Start: 115 @19999 has 6 MA's), (192, 20155), (198, 20161), (260, 20269), (267, 20287), (327, 20377), (349, 20422), (390, 20503), (420, 20584), (440, 20671), (451, 20689), (475, 20761), (502, 20806), (578, 20971),

Gene: KiSi_27 Start: 22512, Stop: 23480, Start Num: 118

Candidate Starts for KiSi_27:

(Start: 118 @22512 has 4 MA's), (205, 22674), (208, 22680), (221, 22701), (225, 22707), (250, 22749), (269, 22794), (294, 22836), (303, 22851), (386, 22959), (421, 23043), (533, 23319),

Gene: KidneyBean_44 Start: 35752, Stop: 36810, Start Num: 132

Candidate Starts for KidneyBean_44:

(3, 34312), (5, 34609), (9, 34840), (22, 35209), (64, 35587), (66, 35602), (71, 35620), (Start: 132 @35752 has 36 MA's), (307, 36097), (335, 36148), (362, 36196),

Gene: KilKor_22 Start: 21561, Stop: 22601, Start Num: 117

Candidate Starts for KilKor_22:

(Start: 117 @21561 has 228 MA's), (192, 21720), (198, 21726), (222, 21768), (260, 21834), (261, 21837), (301, 21897), (327, 21942), (349, 21987), (390, 22068), (412, 22125), (420, 22149), (451, 22254), (475, 22326), (502, 22371),

Gene: Kinbote_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Kinbote_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325,

23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: KingCyrus_34 Start: 25662, Stop: 26561, Start Num: 177

Candidate Starts for KingCyrus_34:

(Start: 177 @25662 has 9 MA's), (238, 25773), (289, 25875), (299, 25896), (333, 25959), (419, 26091), (533, 26373),

Gene: KleverKiS_31 Start: 26972, Stop: 28027, Start Num: 117

Candidate Starts for KleverKiS_31:

(Start: 117 @26972 has 228 MA's), (228, 27185), (252, 27221), (295, 27284), (335, 27356), (349, 27386), (362, 27407), (379, 27443), (394, 27479), (412, 27527), (419, 27548), (421, 27554), (424, 27584), (425, 27587), (439, 27635), (536, 27845), (560, 27899),

Gene: Knocker_33 Start: 33872, Stop: 35014, Start Num: 73

Candidate Starts for Knocker_33:

(Start: 73 @33872 has 8 MA's), (126, 33989), (145, 34016), (147, 34025), (161, 34049), (170, 34070), (174, 34079), (185, 34103), (190, 34118), (192, 34121), (195, 34127), (225, 34178), (231, 34187), (245, 34205), (250, 34217), (251, 34220), (258, 34241), (286, 34292), (295, 34307), (300, 34319), (311, 34343), (315, 34352), (334, 34379), (337, 34385), (372, 34445), (375, 34457), (383, 34487), (391, 34499), (420, 34574), (439, 34658), (444, 34670), (458, 34700), (468, 34718), (501, 34799), (513, 34826), (518, 34829), (523, 34838),

Gene: Kratio_26 Start: 23714, Stop: 24778, Start Num: 117

Candidate Starts for Kratio_26:

(Start: 117 @23714 has 228 MA's), (163, 23804), (175, 23834), (206, 23894), (237, 23942), (258, 23981), (266, 23999), (323, 24083), (349, 24131), (361, 24149), (394, 24224), (420, 24290), (440, 24380), (441, 24383), (443, 24386), (458, 24419), (493, 24518), (496, 24521), (538, 24605), (543, 24617), (584, 24734),

Gene: Kraw_29 Start: 24509, Stop: 25513, Start Num: 117

Candidate Starts for Kraw_29:

(Start: 117 @24509 has 228 MA's), (Start: 156 @24578 has 1 MA's), (209, 24677), (240, 24722), (244, 24728), (265, 24782), (271, 24791), (294, 24827), (313, 24872), (330, 24893), (333, 24899), (335, 24902), (419, 25034), (420, 25037), (457, 25160), (468, 25181), (576, 25448),

Gene: Krueger_28 Start: 22638, Stop: 23633, Start Num: 119

Candidate Starts for Krueger_28:

(68, 22548), (Start: 119 @22638 has 47 MA's), (174, 22737), (Start: 177 @22743 has 9 MA's), (257, 22893), (303, 22974), (313, 22998), (419, 23160), (420, 23163), (439, 23247), (459, 23292), (579, 23571), (585, 23592), (591, 23610),

Gene: Ksquared_22 Start: 21321, Stop: 22358, Start Num: 117

Candidate Starts for Ksquared_22:

(106, 21297), (Start: 114 @21318 has 5 MA's), (Start: 117 @21321 has 228 MA's), (129, 21345), (198, 21483), (222, 21525), (261, 21594), (301, 21654), (327, 21699), (349, 21744), (390, 21825), (412, 21882), (420, 21906), (451, 22011), (475, 22083), (502, 22128), (578, 22293),

Gene: Kurt_44 Start: 35989, Stop: 37047, Start Num: 132

Candidate Starts for Kurt_44:

(3, 34549), (5, 34846), (9, 35077), (22, 35446), (64, 35824), (66, 35839), (71, 35857), (Start: 132 @35989 has 36 MA's), (307, 36334), (335, 36385), (362, 36433),

Gene: Labelle_37 Start: 32043, Stop: 33083, Start Num: 117

Candidate Starts for Labelle_37:

(Start: 117 @32043 has 228 MA's), (160, 32121), (194, 32199), (330, 32412), (333, 32418), (374, 32496), (412, 32589), (421, 32616),

Gene: Lahirium_30 Start: 38622, Stop: 39524, Start Num: 201

Candidate Starts for Lahirium_30:

(Start: 201 @38622 has 28 MA's), (273, 38760), (311, 38829), (340, 38877), (375, 38940), (387, 38976), (439, 39144), (550, 39378), (557, 39396), (591, 39501),

Gene: Lambo_33 Start: 29541, Stop: 30587, Start Num: 112

Candidate Starts for Lambo_33:

(Start: 112 @29541 has 35 MA's), (174, 29655), (183, 29676), (221, 29751), (230, 29766), (343, 29964), (377, 30030), (380, 30042), (412, 30111), (457, 30252),

Gene: Langerak_22 Start: 21280, Stop: 22320, Start Num: 114

Candidate Starts for Langerak_22:

(106, 21259), (Start: 114 @21280 has 5 MA's), (Start: 117 @21283 has 228 MA's), (129, 21307), (198, 21445), (222, 21487), (261, 21556), (301, 21616), (327, 21661), (349, 21706), (390, 21787), (412, 21844), (420, 21868), (451, 21973), (475, 22045), (502, 22090), (578, 22255),

Gene: Larva_28 Start: 23878, Stop: 24942, Start Num: 117

Candidate Starts for Larva_28:

(Start: 117 @23878 has 228 MA's), (163, 23968), (175, 23998), (202, 24052), (206, 24058), (237, 24106), (258, 24145), (266, 24163), (267, 24166), (323, 24247), (349, 24295), (361, 24313), (420, 24454), (440, 24544), (441, 24547), (443, 24550), (458, 24583), (464, 24595), (493, 24682), (496, 24685), (543, 24781), (584, 24898),

Gene: LastHope_28 Start: 22491, Stop: 23498, Start Num: 119

Candidate Starts for LastHope_28:

(Start: 119 @22491 has 47 MA's), (244, 22710), (252, 22731), (278, 22785), (303, 22827), (338, 22887), (386, 22935), (409, 22983), (419, 23013), (443, 23109), (451, 23121), (468, 23160), (547, 23331), (551, 23343),

Gene: LaterM_28 Start: 23256, Stop: 24269, Start Num: 117

Candidate Starts for LaterM_28:

(Start: 117 @23256 has 228 MA's), (Start: 177 @23367 has 9 MA's), (244, 23481), (303, 23598), (328, 23640), (335, 23652), (386, 23706), (419, 23784), (443, 23880), (451, 23892), (468, 23931), (490, 24012), (514, 24045), (551, 24114), (580, 24210),

Gene: LavAbarElk_31 Start: 27993, Stop: 29042, Start Num: 112

Candidate Starts for LavAbarElk_31:

(Start: 112 @27993 has 35 MA's), (174, 28107), (183, 28128), (221, 28203), (230, 28218), (260, 28281), (302, 28341), (361, 28443), (386, 28506), (445, 28677), (493, 28812), (551, 28905),

Gene: Lavahound_26 Start: 23365, Stop: 24360, Start Num: 117

Candidate Starts for Lavahound_26:

(83, 23329), (Start: 117 @23365 has 228 MA's), (168, 23455), (Start: 177 @23476 has 9 MA's), (240, 23584), (244, 23590), (252, 23611), (260, 23632), (400, 23839), (419, 23893), (420, 23896), (439, 23980), (440, 23983), (468, 24040), (518, 24148),

Gene: LeMond_27 Start: 22583, Stop: 23551, Start Num: 118

Candidate Starts for LeMond_27:

(Start: 118 @22583 has 4 MA's), (190, 22718), (205, 22745), (208, 22751), (221, 22772), (225, 22778), (250, 22820), (269, 22865), (294, 22907), (303, 22922), (386, 23030), (421, 23114), (533, 23390),

Gene: Lea83_28 Start: 23930, Stop: 24949, Start Num: 119

Candidate Starts for Lea83_28:

(30, 23549), (32, 23561), (36, 23597), (39, 23621), (51, 23741), (68, 23840), (85, 23897), (Start: 119 @23930 has 47 MA's), (138, 23963), (190, 24062), (193, 24068), (200, 24080), (236, 24137), (240, 24143), (265, 24203), (303, 24266), (308, 24275), (330, 24311), (340, 24332), (346, 24344), (393, 24383), (419, 24452), (445, 24551), (468, 24599), (477, 24635), (506, 24698), (527, 24740), (551, 24788), (566, 24830), (591, 24926),

Gene: Lebo14_29 Start: 24599, Stop: 25603, Start Num: 117

Candidate Starts for Lebo14_29:

(Start: 117 @24599 has 228 MA's), (209, 24767), (217, 24779), (240, 24812), (244, 24818), (265, 24872), (271, 24881), (313, 24962), (330, 24983), (333, 24989), (335, 24992), (419, 25124), (420, 25127), (457, 25250),

Gene: Lemuria_24 Start: 23055, Stop: 24455, Start Num: 74

Candidate Starts for Lemuria_24:

(Start: 74 @23055 has 5 MA's), (91, 23094), (Start: 112 @23139 has 35 MA's), (255, 23406), (276, 23451), (286, 23469), (305, 23505), (346, 23580), (355, 23595), (380, 23646), (385, 23661), (413, 23727), (415, 23733), (442, 23838), (446, 23844), (473, 23916),

Gene: Leopard_42 Start: 33163, Stop: 34302, Start Num: 90

Candidate Starts for Leopard_42:

(Start: 88 @33160 has 1 MA's), (Start: 90 @33163 has 3 MA's), (Start: 101 @33184 has 20 MA's), (Start: 118 @33220 has 4 MA's), (171, 33334), (172, 33337), (200, 33391), (218, 33418), (271, 33523), (279, 33532), (313, 33604), (344, 33655), (348, 33664), (362, 33685), (378, 33721), (441, 33907), (461, 33949), (463, 33952), (471, 33976), (489, 34042),

Gene: Leston_27 Start: 24063, Stop: 25130, Start Num: 117

Candidate Starts for Leston_27:

(Start: 117 @24063 has 228 MA's), (174, 24180), (202, 24237), (232, 24285), (237, 24291), (266, 24348), (267, 24351), (277, 24366), (301, 24393), (323, 24432), (327, 24435), (333, 24447), (335, 24450), (336, 24453), (343, 24468), (371, 24513), (373, 24519), (394, 24573), (412, 24621), (422, 24651), (433, 24696), (475, 24825), (501, 24879),

Gene: Lidong_30 Start: 38356, Stop: 39258, Start Num: 201

Candidate Starts for Lidong_30:

(Start: 201 @38356 has 28 MA's), (273, 38494), (311, 38563), (340, 38611), (375, 38674), (387, 38710), (439, 38878), (557, 39130), (591, 39235),

Gene: LilDirt_26 Start: 23840, Stop: 24904, Start Num: 117

Candidate Starts for LilDirt_26:

(Start: 117 @23840 has 228 MA's), (163, 23930), (174, 23957), (206, 24020), (237, 24068), (258, 24107), (266, 24125), (301, 24170), (323, 24209), (349, 24257), (361, 24275), (394, 24350), (420, 24416), (440, 24506), (441, 24509), (443, 24512), (458, 24545), (493, 24644), (496, 24647), (538, 24731), (543, 24743), (584, 24860),

Gene: LilHazelnut_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for LilHazelnut_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: LilPharaoh_24 Start: 22900, Stop: 23907, Start Num: 119

Candidate Starts for LilPharaoh_24:

(94, 22849), (100, 22861), (Start: 119 @22900 has 47 MA's), (152, 22960), (190, 23032), (221, 23086), (236, 23107), (303, 23236), (330, 23281), (331, 23284), (384, 23341), (386, 23344), (408, 23389), (420, 23425), (443, 23521), (451, 23533), (500, 23653), (564, 23785),

Gene: LilSpotty_25 Start: 21191, Stop: 22405, Start Num: 101

Candidate Starts for LilSpotty_25:

(37, 20861), (Start: 59 @21059 has 1 MA's), (Start: 99 @21188 has 6 MA's), (Start: 101 @21191 has 20 MA's), (233, 21452), (315, 21623), (389, 21773), (406, 21812), (436, 21914), (440, 21956), (575, 22328),

Gene: Lila22_32 Start: 29496, Stop: 30542, Start Num: 112

Candidate Starts for Lila22_32:

(Start: 112 @29496 has 35 MA's), (174, 29610), (183, 29631), (221, 29706), (230, 29721), (260, 29784), (361, 29946), (457, 30207),

Gene: LilhomieP_30 Start: 26992, Stop: 28047, Start Num: 117

Candidate Starts for LilhomieP_30:

(Start: 117 @26992 has 228 MA's), (228, 27205), (252, 27241), (295, 27304), (335, 27376), (349, 27406), (362, 27427), (379, 27463), (394, 27499), (412, 27547), (419, 27568), (421, 27574), (424, 27604), (425, 27607), (439, 27655), (528, 27844), (536, 27865), (560, 27919),

Gene: LindNT_28 Start: 23290, Stop: 24303, Start Num: 117

Candidate Starts for LindNT_28:

(95, 23245), (Start: 117 @23290 has 228 MA's), (Start: 177 @23401 has 9 MA's), (244, 23515), (303, 23632), (328, 23674), (335, 23686), (386, 23740), (419, 23818), (438, 23902), (443, 23914), (451, 23926), (468, 23965), (580, 24244),

Gene: LittleMinkey_37 Start: 31346, Stop: 32749, Start Num: 79

Candidate Starts for LittleMinkey_37:

(79, 31346), (Start: 93 @31370 has 4 MA's), (109, 31400), (126, 31436), (147, 31472), (157, 31490), (213, 31604), (255, 31676), (256, 31679), (268, 31706), (333, 31823), (335, 31826), (397, 31955), (448, 32123), (522, 32327), (529, 32339), (530, 32342),

Gene: Llorens_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Llorens_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Lollipop1437_50 Start: 36962, Stop: 38023, Start Num: 132

Candidate Starts for Lollipop1437_50:

(Start: 132 @36962 has 36 MA's), (222, 37148), (319, 37334), (321, 37337), (421, 37547),

Gene: LongHai_26 Start: 22028, Stop: 23053, Start Num: 111

Candidate Starts for LongHai_26:

(Start: 111 @22028 has 2 MA's), (160, 22118), (296, 22337), (298, 22340), (302, 22352), (374, 22484), (386, 22520), (412, 22571), (423, 22628), (521, 22865), (571, 22991),

Gene: LordVader_21 Start: 19492, Stop: 20529, Start Num: 117

Candidate Starts for LordVader_21:

(Start: 117 @19492 has 228 MA's), (129, 19516), (198, 19654), (222, 19696), (261, 19765), (301, 19825), (327, 19870), (349, 19915), (382, 19984), (412, 20053), (420, 20077), (451, 20182), (475, 20254), (502, 20299),

Gene: Luchador_34 Start: 25731, Stop: 26627, Start Num: 177

Candidate Starts for Luchador_34:

(Start: 177 @25731 has 9 MA's), (267, 25905), (289, 25941), (299, 25962), (329, 26016), (333, 26025), (419, 26157), (559, 26493), (568, 26523),

Gene: LuckyLeo_32 Start: 28919, Stop: 29908, Start Num: 144

Candidate Starts for LuckyLeo_32:

(Start: 112 @28862 has 35 MA's), (Start: 144 @28919 has 1 MA's), (189, 29009), (192, 29018), (194, 29024), (199, 29033), (230, 29087), (343, 29285), (377, 29351), (380, 29363), (412, 29432), (457, 29573), (493, 29681),

Gene: Luke_27 Start: 23371, Stop: 24564, Start Num: 58

Candidate Starts for Luke_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (Start: 146 @23548 has 1 MA's), (150, 23560), (172, 23599), (200, 23656), (236, 23707), (245, 23722), (260, 23761), (282, 23794), (294, 23815), (297, 23821), (315, 23857), (325, 23869), (328, 23872), (353, 23920), (357, 23926), (359, 23929), (364, 23938), (419, 24076), (443, 24169), (470, 24226), (471, 24232), (496, 24316), (508, 24331), (509, 24334), (547, 24400), (558, 24433),

Gene: Luker_31 Start: 38575, Stop: 39477, Start Num: 201

Candidate Starts for Luker_31:

(Start: 201 @38575 has 28 MA's), (273, 38713), (311, 38782), (340, 38830), (375, 38893), (387, 38929), (439, 39097), (550, 39331), (557, 39349), (591, 39454),

Gene: Luna22_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Luna22_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (23, 23038), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: Lunahalos_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Lunahalos_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: MOOREtheMARYer_24 Start: 23264, Stop: 24634, Start Num: 93

Candidate Starts for MOOREtheMARYer_24:

(Start: 93 @23264 has 4 MA's), (157, 23384), (169, 23405), (186, 23444), (189, 23450), (320, 23699), (330, 23711), (355, 23759), (372, 23783), (397, 23849), (413, 23894), (477, 24113), (479, 24131), (481, 24140), (517, 24206), (600, 24605), (602, 24629),

Gene: MacKat_28 Start: 23333, Stop: 24346, Start Num: 117

Candidate Starts for MacKat_28:

(27, 22889), (95, 23288), (Start: 117 @23333 has 228 MA's), (Start: 177 @23444 has 9 MA's), (244, 23558), (303, 23675), (328, 23717), (335, 23729), (386, 23783), (419, 23861), (438, 23945), (443, 23957), (451, 23969), (462, 23999), (468, 24008), (514, 24122), (551, 24191),

Gene: MacnCheese_29 Start: 24319, Stop: 25308, Start Num: 119

Candidate Starts for MacnCheese_29:

(68, 24199), (85, 24256), (Start: 119 @24319 has 47 MA's), (138, 24352), (190, 24448), (193, 24454), (238, 24526), (313, 24676), (330, 24697), (343, 24724), (420, 24841), (438, 24919), (443, 24931), (445, 24934), (570, 25231),

Gene: Maco6_23 Start: 20985, Stop: 22013, Start Num: 111

Candidate Starts for Maco6_23:

(Start: 111 @20985 has 2 MA's), (160, 21075), (194, 21144), (199, 21153), (252, 21231), (296, 21294), (298, 21297), (374, 21441), (386, 21477), (412, 21528), (423, 21585), (521, 21825), (571, 21951),

Gene: Madruga_36 Start: 31712, Stop: 32752, Start Num: 117

Candidate Starts for Madruga_36:

(Start: 117 @31712 has 228 MA's), (160, 31790), (194, 31868), (330, 32081), (333, 32087), (374, 32165), (412, 32258), (421, 32285),

Gene: Magsby_22 Start: 20220, Stop: 21434, Start Num: 101

Candidate Starts for Magsby_22:

(37, 19890), (Start: 59 @20088 has 1 MA's), (Start: 99 @20217 has 6 MA's), (Start: 101 @20220 has 20 MA's), (233, 20481), (315, 20652), (389, 20802), (406, 20841), (436, 20943), (440, 20985), (575, 21357),

Gene: Mahdia_28 Start: 21227, Stop: 22375, Start Num: 86

Candidate Starts for Mahdia_28:

(Start: 86 @21227 has 2 MA's), (123, 21299), (163, 21374), (165, 21377), (176, 21407), (190, 21440), (216, 21491), (220, 21497), (282, 21617), (314, 21683), (372, 21776), (379, 21800), (387, 21824), (401, 21854), (417, 21896), (434, 21956), (451, 22013), (456, 22028), (466, 22049), (468, 22052), (498, 22136), (501, 22145),

Gene: Majeke_22 Start: 21305, Stop: 22342, Start Num: 117

Candidate Starts for Majeke_22:

(106, 21281), (Start: 114 @21302 has 5 MA's), (Start: 117 @21305 has 228 MA's), (129, 21329), (198, 21467), (222, 21509), (261, 21578), (301, 21638), (327, 21683), (349, 21728), (390, 21809), (412, 21866), (420, 21890), (451, 21995), (475, 22067), (502, 22112), (578, 22277),

Gene: MakCheese_24 Start: 21714, Stop: 22658, Start Num: 170

Candidate Starts for MakCheese_24:

(Start: 113 @21606 has 4 MA's), (170, 21714), (244, 21855), (273, 21927), (302, 21960), (393, 22134), (409, 22173), (412, 22182), (452, 22305), (465, 22338), (482, 22410), (512, 22458), (514, 22461), (551, 22524),

Gene: MalagasyRose_28 Start: 22698, Stop: 23777, Start Num: 117

Candidate Starts for MalagasyRose_28:

(Start: 117 @22698 has 228 MA's), (127, 22719), (172, 22812), (190, 22854), (192, 22857), (202, 22872), (237, 22926), (252, 22947), (258, 22965), (301, 23028), (311, 23049), (336, 23088), (349, 23115), (361, 23133), (394, 23211), (401, 23229), (468, 23424), (482, 23484), (547, 23607),

Gene: Malithi_22 Start: 21221, Stop: 22261, Start Num: 114

Candidate Starts for Malithi_22:

(106, 21200), (Start: 114 @21221 has 5 MA's), (Start: 117 @21224 has 228 MA's), (129, 21248), (198, 21386), (222, 21428), (261, 21497), (301, 21557), (327, 21602), (349, 21647), (390, 21728), (412, 21785), (420, 21809), (451, 21914), (475, 21986), (502, 22031), (578, 22196),

Gene: Malthus_30 Start: 24509, Stop: 25513, Start Num: 117

Candidate Starts for Malthus_30:

(Start: 117 @24509 has 228 MA's), (Start: 156 @24578 has 1 MA's), (209, 24677), (240, 24722), (244, 24728), (265, 24782), (271, 24791), (294, 24827), (313, 24872), (330, 24893), (333, 24899), (335, 24902), (419, 25034), (420, 25037), (457, 25160), (468, 25181), (547, 25352), (576, 25448),

Gene: Mangethe_22 Start: 21305, Stop: 22342, Start Num: 117

Candidate Starts for Mangethe_22:

(106, 21281), (Start: 114 @21302 has 5 MA's), (Start: 117 @21305 has 228 MA's), (129, 21329), (198, 21467), (222, 21509), (261, 21578), (301, 21638), (327, 21683), (349, 21728), (390, 21809), (412, 21866), (420, 21890), (451, 21995), (475, 22067), (502, 22112), (578, 22277),

Gene: Manilisa_32 Start: 27398, Stop: 28474, Start Num: 119

Candidate Starts for Manilisa_32:

(Start: 119 @27398 has 47 MA's), (175, 27515), (189, 27545), (221, 27608), (258, 27683), (260, 27686), (307, 27755), (311, 27767), (371, 27860), (412, 27962), (417, 27977), (431, 28034),

Gene: Marcoliusprime_25 Start: 21282, Stop: 22277, Start Num: 119

Candidate Starts for Marcoliusprime_25:

(51, 21099), (68, 21198), (Start: 119 @21282 has 47 MA's), (164, 21363), (174, 21387), (205, 21447), (240, 21501), (244, 21507), (293, 21609), (295, 21612), (322, 21660), (328, 21666), (349, 21708), (386, 21732), (421, 21816), (440, 21900), (468, 21957), (587, 22254),

Gene: MarkPhew_28 Start: 22462, Stop: 23448, Start Num: 119

Candidate Starts for MarkPhew_28:

(Start: 119 @22462 has 47 MA's), (175, 22567), (208, 22630), (221, 22651), (225, 22657), (236, 22672), (250, 22699), (278, 22759), (294, 22786), (353, 22891), (420, 22990), (439, 23074), (457, 23113), (527, 23263), (561, 23317), (566, 23332),

Gene: Marshawn_29 Start: 23145, Stop: 24104, Start Num: 119

Candidate Starts for Marshawn_29:

(Start: 119 @23145 has 47 MA's), (135, 23175), (Start: 201 @23301 has 28 MA's), (209, 23316), (236, 23355), (250, 23382), (297, 23475), (303, 23484), (328, 23526), (386, 23592), (419, 23670), (420, 23673), (445, 23766), (492, 23874), (510, 23910),

Gene: McMater_28 Start: 22728, Stop: 23693, Start Num: 117

Candidate Starts for McMater_28:

(Start: 117 @22728 has 228 MA's), (121, 22734), (200, 22887), (209, 22905), (221, 22923), (244, 22956), (260, 22998), (294, 23058), (303, 23073), (419, 23259), (420, 23262), (437, 23334), (468, 23403), (484, 23451), (503, 23466), (519, 23499), (544, 23538), (579, 23637),

Gene: Mdavu_24 Start: 22888, Stop: 23895, Start Num: 119

Candidate Starts for Mdavu_24:

(94, 22837), (100, 22849), (Start: 119 @22888 has 47 MA's), (152, 22948), (190, 23020), (221, 23074), (236, 23095), (303, 23224), (330, 23269), (331, 23272), (384, 23329), (386, 23332), (408, 23377), (420, 23413), (443, 23509), (451, 23521), (500, 23641), (564, 23773),

Gene: MeaningOfLife_28 Start: 23292, Stop: 24305, Start Num: 117

Candidate Starts for MeaningOfLife_28:

(27, 22848), (95, 23247), (Start: 117 @23292 has 228 MA's), (Start: 177 @23403 has 9 MA's), (240, 23511), (244, 23517), (303, 23634), (328, 23676), (335, 23688), (386, 23742), (419, 23820), (438, 23904), (443, 23916), (451, 23928), (468, 23967), (514, 24081), (551, 24150),

Gene: Megiddo_22 Start: 21561, Stop: 22601, Start Num: 117

Candidate Starts for Megiddo_22:

(Start: 117 @21561 has 228 MA's), (192, 21720), (198, 21726), (222, 21768), (260, 21834), (261, 21837), (301, 21897), (327, 21942), (349, 21987), (390, 22068), (412, 22125), (420, 22149), (451, 22254), (475, 22326), (502, 22371),

Gene: Megsy_28 Start: 23293, Stop: 24306, Start Num: 117

Candidate Starts for Megsy_28:

(27, 22849), (95, 23248), (Start: 117 @23293 has 228 MA's), (Start: 177 @23404 has 9 MA's), (244, 23518), (303, 23635), (328, 23677), (335, 23689), (386, 23743), (419, 23821), (438, 23905), (443, 23917), (451, 23929), (468, 23968), (580, 24247),

Gene: Melville_22 Start: 20223, Stop: 21437, Start Num: 101

Candidate Starts for Melville_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: MerCougar_46 Start: 36238, Stop: 37293, Start Num: 132

Candidate Starts for MerCougar_46:

(102, 36175), (Start: 132 @36238 has 36 MA's), (243, 36451), (321, 36610), (336, 36634), (451, 36922), (578, 37222), (591, 37267),

Gene: Mercurio_25 Start: 23665, Stop: 25065, Start Num: 74

Candidate Starts for Mercurio_25:

(Start: 74 @23665 has 5 MA's), (147, 23812), (209, 23938), (255, 24016), (276, 24061), (286, 24079), (305, 24115), (339, 24175), (355, 24205), (380, 24256), (415, 24343), (442, 24448), (446, 24454), (589, 24832),

Gene: Meyran_29 Start: 27126, Stop: 28187, Start Num: 131

Candidate Starts for Meyran_29:

(Start: 117 @27099 has 228 MA's), (Start: 131 @27126 has 1 MA's), (221, 27309), (307, 27456), (371, 27561), (402, 27642), (412, 27669), (417, 27684), (431, 27747), (451, 27807), (556, 28044),

Gene: MichelleMyBell_22 Start: 20029, Stop: 21114, Start Num: 117

Candidate Starts for MichelleMyBell_22:

(80, 19963), (Start: 117 @20029 has 228 MA's), (198, 20191), (261, 20302), (301, 20362), (327, 20407), (390, 20533), (394, 20542), (412, 20590),

Gene: Milly_25 Start: 21282, Stop: 22277, Start Num: 119

Candidate Starts for Milly_25:

(51, 21099), (68, 21198), (Start: 119 @21282 has 47 MA's), (164, 21363), (174, 21387), (205, 21447), (240, 21501), (244, 21507), (293, 21609), (295, 21612), (322, 21660), (328, 21666), (349, 21708), (386, 21732), (421, 21816), (440, 21900), (468, 21957), (587, 22254),

Gene: Mima20_31 Start: 29243, Stop: 30292, Start Num: 112

Candidate Starts for Mima20_31:

(Start: 112 @29243 has 35 MA's), (154, 29318), (174, 29357), (183, 29378), (221, 29453), (230, 29468), (260, 29531), (302, 29591), (361, 29693), (445, 29927), (493, 30062), (551, 30155),

Gene: Minos_31 Start: 38098, Stop: 39000, Start Num: 201

Candidate Starts for Minos_31:

(Start: 201 @38098 has 28 MA's), (273, 38236), (311, 38305), (340, 38353), (375, 38416), (387, 38452), (439, 38620), (557, 38872), (591, 38977),

Gene: Miryou_27 Start: 23918, Stop: 24985, Start Num: 117

Candidate Starts for Miryou_27:

(Start: 117 @23918 has 228 MA's), (174, 24035), (202, 24092), (232, 24140), (237, 24146), (266, 24203), (267, 24206), (277, 24221), (301, 24248), (323, 24287), (327, 24290), (333, 24302), (335, 24305), (336, 24308), (343, 24323), (371, 24368), (373, 24374), (394, 24428), (412, 24476), (422, 24506), (433, 24551), (475, 24680), (501, 24734),

Gene: MissDaisy_29 Start: 24351, Stop: 25355, Start Num: 117

Candidate Starts for MissDaisy_29:

(Start: 117 @24351 has 228 MA's), (209, 24519), (240, 24564), (244, 24570), (265, 24624), (313, 24714), (330, 24735), (335, 24744), (419, 24876), (420, 24879), (457, 25002), (468, 25023), (576, 25290),

Gene: Mitti_29 Start: 24509, Stop: 25513, Start Num: 117

Candidate Starts for Mitti_29:

(Start: 117 @24509 has 228 MA's), (209, 24677), (240, 24722), (244, 24728), (265, 24782), (313, 24872), (330, 24893), (335, 24902), (419, 25034), (420, 25037), (437, 25112), (468, 25181), (562, 25391),

Gene: MoiGyank_35 Start: 29924, Stop: 30973, Start Num: 112

Candidate Starts for MoiGyank_35:

(Start: 112 @29924 has 35 MA's), (154, 29999), (174, 30038), (183, 30059), (221, 30134), (230, 30149), (260, 30212), (302, 30272), (361, 30374), (386, 30437), (445, 30608), (551, 30836),

Gene: Morrissey_29 Start: 22778, Stop: 23920, Start Num: 86

Candidate Starts for Morrissey_29:

(Start: 86 @22778 has 2 MA's), (136, 22868), (142, 22880), (149, 22898), (179, 22967), (192, 22994), (276, 23159), (282, 23168), (306, 23213), (314, 23234), (354, 23303), (379, 23351), (387, 23375), (420, 23450), (421, 23453), (438, 23534), (440, 23540), (451, 23558), (456, 23573), (464, 23591), (466, 23594), (482, 23666), (498, 23681), (537, 23750), (547, 23768), (549, 23771), (582, 23867), (590, 23894), (591, 23897),

Gene: MrMagoo_35 Start: 27841, Stop: 28923, Start Num: 92

Candidate Starts for MrMagoo_35:

(89, 27835), (Start: 92 @27841 has 6 MA's), (133, 27916), (159, 27961), (163, 27967), (167, 27973), (172, 27991), (192, 28036), (200, 28051), (208, 28066), (223, 28090), (238, 28111), (261, 28165), (263, 28171), (280, 28201), (297, 28234), (354, 28345), (394, 28381), (583, 28879),

Gene: MrWormie_30 Start: 37259, Stop: 38161, Start Num: 201

Candidate Starts for MrWormie_30:

(Start: 201 @37259 has 28 MA's), (273, 37397), (311, 37466), (340, 37514), (375, 37577), (387, 37613), (439, 37781), (557, 38033), (591, 38138),

Gene: Msay19_34 Start: 38032, Stop: 38934, Start Num: 201

Candidate Starts for Msay19_34:

(Start: 201 @38032 has 28 MA's), (259, 38137), (273, 38167), (290, 38197), (298, 38209), (347, 38293), (375, 38341), (387, 38377), (420, 38458), (435, 38512), (466, 38602), (529, 38749), (593, 38917),

Gene: Muddy_25 Start: 21935, Stop: 22960, Start Num: 111

Candidate Starts for Muddy_25:

(Start: 111 @21935 has 2 MA's), (160, 22025), (252, 22181), (296, 22244), (298, 22247), (374, 22391), (386, 22427), (412, 22478), (423, 22535), (496, 22733), (521, 22772), (571, 22898),

Gene: Mufasa_25 Start: 21302, Stop: 22327, Start Num: 119

Candidate Starts for Mufasa_25:

(68, 21218), (Start: 119 @21302 has 47 MA's), (174, 21407), (205, 21467), (240, 21521), (244, 21527), (282, 21608), (284, 21614), (293, 21629), (295, 21632), (421, 21836), (587, 22295),

Gene: Mulch_27 Start: 23315, Stop: 24382, Start Num: 120

Candidate Starts for Mulch_27:

(Start: 120 @23315 has 14 MA's), (229, 23525), (333, 23693), (402, 23834), (408, 23849), (412, 23861), (420, 23885), (438, 23969), (455, 24005), (493, 24116),

Gene: MulchSalad_20 Start: 19992, Stop: 21206, Start Num: 101

Candidate Starts for MulchSalad_20:

(37, 19662), (Start: 59 @19860 has 1 MA's), (Start: 99 @19989 has 6 MA's), (Start: 101 @19992 has 20 MA's), (233, 20253), (315, 20424), (389, 20574), (406, 20613), (436, 20715), (440, 20757), (575, 21129),

Gene: Murucutumbu_28 Start: 23275, Stop: 24288, Start Num: 117

Candidate Starts for Murucutumbu_28:

(Start: 117 @23275 has 228 MA's), (Start: 177 @23386 has 9 MA's), (244, 23500), (303, 23617), (328, 23659), (386, 23725), (419, 23803), (420, 23806), (443, 23899), (451, 23911), (457, 23929), (468, 23950), (514, 24064), (551, 24133), (580, 24229),

Gene: Mynx_28 Start: 23339, Stop: 24352, Start Num: 117

Candidate Starts for Mynx_28:

(27, 22895), (95, 23294), (Start: 117 @23339 has 228 MA's), (244, 23564), (303, 23681), (328, 23723), (335, 23735), (386, 23789), (419, 23867), (443, 23963), (451, 23975), (462, 24005), (468, 24014), (514, 24128), (551, 24197),

Gene: Nadeem_27 Start: 23315, Stop: 24382, Start Num: 120

Candidate Starts for Nadeem_27:

(Start: 120 @23315 has 14 MA's), (229, 23525), (333, 23693), (402, 23834), (408, 23849), (412, 23861), (420, 23885), (438, 23969), (493, 24116),

Gene: NancyRae_27 Start: 23321, Stop: 24388, Start Num: 120

Candidate Starts for NancyRae_27:

(Start: 120 @23321 has 14 MA's), (229, 23531), (333, 23699), (402, 23840), (408, 23855), (412, 23867), (420, 23891), (438, 23975), (455, 24011), (493, 24122),

Gene: NatB6_44 Start: 35025, Stop: 36083, Start Num: 132

Candidate Starts for NatB6_44:

(3, 33585), (5, 33882), (9, 34113), (22, 34482), (64, 34860), (66, 34875), (71, 34893), (Start: 132 @35025 has 36 MA's), (307, 35370), (335, 35421), (362, 35469),

Gene: Nazo_22 Start: 21497, Stop: 22546, Start Num: 117

Candidate Starts for Nazo_22:

(Start: 117 @21497 has 228 MA's), (127, 21518), (198, 21659), (214, 21689), (228, 21710), (264, 21773), (297, 21812), (380, 21971), (424, 22103), (459, 22199), (580, 22484),

Gene: Necropolis_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for Necropolis_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412, 21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: Neighly_28 Start: 23877, Stop: 24941, Start Num: 117

Candidate Starts for Neighly_28:

(Start: 117 @23877 has 228 MA's), (163, 23967), (175, 23997), (202, 24051), (206, 24057), (237, 24105), (258, 24144), (266, 24162), (267, 24165), (323, 24246), (349, 24294), (361, 24312), (420, 24453), (440, 24543), (441, 24546), (443, 24549), (458, 24582), (464, 24594), (493, 24681), (496, 24684), (543, 24780), (584, 24897),

Gene: Neoevie_30 Start: 38362, Stop: 39264, Start Num: 201

Candidate Starts for Neoevie_30:

(Start: 201 @38362 has 28 MA's), (273, 38500), (311, 38569), (340, 38617), (375, 38680), (387, 38716), (393, 38725), (439, 38884), (550, 39118), (557, 39136), (591, 39241),

Gene: Newt_31 Start: 38589, Stop: 39491, Start Num: 201

Candidate Starts for Newt_31:

(Start: 201 @38589 has 28 MA's), (273, 38727), (311, 38796), (340, 38844), (375, 38907), (387, 38943), (439, 39111), (557, 39363), (591, 39468),

Gene: Nibb_27 Start: 22603, Stop: 23589, Start Num: 119

Candidate Starts for Nibb_27:

(Start: 119 @22603 has 47 MA's), (175, 22708), (Start: 201 @22759 has 28 MA's), (208, 22771), (221, 22792), (225, 22798), (236, 22813), (250, 22840), (278, 22900), (294, 22927), (346, 23020), (353, 23032), (416, 23119), (420, 23131), (439, 23215), (457, 23254), (469, 23281), (497, 23350), (527, 23404),

Gene: Nikao_24 Start: 22900, Stop: 23907, Start Num: 119

Candidate Starts for Nikao_24:

(94, 22849), (100, 22861), (Start: 119 @22900 has 47 MA's), (152, 22960), (190, 23032), (221, 23086), (236, 23107), (303, 23236), (330, 23281), (331, 23284), (384, 23341), (386, 23344), (408, 23389), (420, 23425), (443, 23521), (451, 23533), (500, 23653), (564, 23785),

Gene: Niklas_28 Start: 22731, Stop: 23696, Start Num: 117

Candidate Starts for Niklas_28:

(Start: 117 @22731 has 228 MA's), (121, 22737), (200, 22890), (209, 22908), (221, 22926), (244, 22959), (260, 23001), (294, 23061), (303, 23076), (419, 23262), (420, 23265), (437, 23337), (468, 23406), (484, 23454), (503, 23469), (519, 23502), (544, 23541), (579, 23640),

Gene: Nimi13_30 Start: 38107, Stop: 39009, Start Num: 201

Candidate Starts for Nimi13_30:

(Start: 201 @38107 has 28 MA's), (273, 38245), (311, 38314), (340, 38362), (375, 38425), (387, 38461), (393, 38470), (439, 38629), (550, 38863), (557, 38881), (591, 38986),

Gene: NoShow_22 Start: 21146, Stop: 22273, Start Num: 88

Candidate Starts for NoShow_22:

(Start: 88 @21146 has 1 MA's), (165, 21290), (168, 21296), (171, 21308), (172, 21311), (183, 21335), (276, 21506), (288, 21527), (324, 21599), (352, 21647), (430, 21845), (438, 21878), (574, 22193),

Gene: NorManre_34 Start: 29125, Stop: 30174, Start Num: 112

Candidate Starts for NorManre_34:

(Start: 112 @29125 has 35 MA's), (154, 29200), (174, 29239), (183, 29260), (221, 29335), (230, 29350), (260, 29413), (386, 29638), (445, 29809), (551, 30037), (564, 30082),

Gene: NosilaM_48 Start: 35951, Stop: 37006, Start Num: 132

Candidate Starts for NosilaM_48:

(Start: 132 @35951 has 36 MA's), (243, 36164), (336, 36347), (451, 36635), (591, 36980),

Gene: NovaSharks_32 Start: 27111, Stop: 28208, Start Num: 112

Candidate Starts for NovaSharks_32:

(Start: 112 @27111 has 35 MA's), (174, 27225), (233, 27318), (251, 27351), (252, 27354), (253, 27357), (261, 27378), (266, 27390), (302, 27438), (336, 27501), (365, 27555), (403, 27651), (417, 27693), (483, 27927), (510, 27966), (552, 28053), (596, 28200),

Gene: November_26 Start: 23628, Stop: 24632, Start Num: 117

Candidate Starts for November_26:

(31, 23256), (83, 23592), (Start: 117 @23628 has 228 MA's), (172, 23730), (236, 23841), (252, 23874), (303, 23970), (410, 24129), (440, 24243), (507, 24396), (551, 24489),

Gene: NovoPizza_24 Start: 24478, Stop: 25725, Start Num: 59

Candidate Starts for NovoPizza_24:

(1, 22918), (2, 23035), (4, 23296), (7, 23614), (13, 23929), (14, 23953), (19, 24055), (56, 24454), (Start: 59 @24478 has 1 MA's), (61, 24487), (75, 24550), (107, 24616), (127, 24661), (129, 24664), (180, 24763), (200, 24805), (264, 24916), (270, 24925), (343, 25054), (409, 25195), (418, 25216), (443, 25321), (445, 25324), (458, 25348), (493, 25462), (567, 25615), (593, 25705),

Gene: NovumRegina_44 Start: 35355, Stop: 36413, Start Num: 132

Candidate Starts for NovumRegina_44:

(3, 33915), (5, 34212), (9, 34443), (22, 34812), (64, 35190), (66, 35205), (71, 35223), (Start: 132 @35355 has 36 MA's), (307, 35700), (335, 35751), (362, 35799),

Gene: Nutello_24 Start: 22900, Stop: 23907, Start Num: 119

Candidate Starts for Nutello_24:

(94, 22849), (100, 22861), (Start: 119 @22900 has 47 MA's), (152, 22960), (190, 23032), (221, 23086), (236, 23107), (303, 23236), (330, 23281), (331, 23284), (384, 23341), (386, 23344), (408, 23389), (420, 23425), (443, 23521), (451, 23533), (500, 23653), (564, 23785),

Gene: Nyceirae_31 Start: 26839, Stop: 27909, Start Num: 117

Candidate Starts for Nyceirae_31:

(Start: 117 @26839 has 228 MA's), (158, 26920), (170, 26944), (221, 27049), (252, 27106), (260, 27127), (297, 27175), (371, 27301), (390, 27352), (412, 27409), (417, 27424), (451, 27541),

Gene: OBUpride_27 Start: 23365, Stop: 24603, Start Num: 58

Candidate Starts for OBUpride_27:

(10, 22753), (11, 22819), (15, 22909), (16, 22912), (25, 23062), (33, 23149), (34, 23152), (47, 23290), (Start: 58 @23365 has 22 MA's), (81, 23461), (96, 23488), (98, 23494), (Start: 119 @23533 has 47 MA's), (124, 23542), (Start: 146 @23587 has 1 MA's), (150, 23599), (172, 23638), (200, 23695), (236, 23746), (245, 23761), (260, 23800), (282, 23833), (294, 23854), (297, 23860), (315, 23896), (325, 23908), (328, 23911), (353, 23959), (357, 23965), (359, 23968), (364, 23977), (419, 24115), (443, 24208), (470, 24265), (471, 24271), (496, 24355), (508, 24370), (509, 24373), (547, 24439), (558, 24472),

Gene: Okabe_21 Start: 20462, Stop: 21499, Start Num: 117

Candidate Starts for Okabe_21:

(106, 20438), (Start: 114 @20459 has 5 MA's), (Start: 117 @20462 has 228 MA's), (129, 20486), (198, 20624), (222, 20666), (261, 20735), (301, 20795), (327, 20840), (349, 20885), (390, 20966), (412, 21023), (420, 21047), (451, 21152), (475, 21224), (502, 21269),

Gene: OkiRoe_27 Start: 23934, Stop: 25001, Start Num: 117

Candidate Starts for OkiRoe_27:

(Start: 117 @23934 has 228 MA's), (174, 24051), (202, 24108), (232, 24156), (237, 24162), (267, 24222), (277, 24237), (301, 24264), (323, 24303), (327, 24306), (333, 24318), (335, 24321), (336, 24324), (343, 24339), (371, 24384), (373, 24390), (394, 24444), (412, 24492), (422, 24522), (433, 24567), (475, 24696), (501, 24750),

Gene: OmniCritical_29 Start: 24494, Stop: 25498, Start Num: 117

Candidate Starts for OmniCritical_29:

(Start: 117 @24494 has 228 MA's), (209, 24662), (240, 24707), (244, 24713), (265, 24767), (271, 24776), (313, 24857), (330, 24878), (333, 24884), (335, 24887), (419, 25019), (420, 25022), (457, 25145), (562, 25376),

Gene: Omnicron_28 Start: 22797, Stop: 23876, Start Num: 117

Candidate Starts for Omnicron_28:

(Start: 117 @22797 has 228 MA's), (Start: 131 @22824 has 1 MA's), (202, 22971), (206, 22977), (237, 23025), (258, 23064), (266, 23082), (277, 23100), (323, 23166), (343, 23202), (357, 23226), (361, 23232), (400, 23325), (429, 23427), (440, 23472), (464, 23517), (466, 23520), (473, 23538), (476, 23559), (491, 23601), (507, 23619), (547, 23715), (549, 23718), (593, 23859),

Gene: Onyinye_43 Start: 33042, Stop: 34181, Start Num: 90

Candidate Starts for Onyinye_43:

(Start: 88 @33039 has 1 MA's), (Start: 90 @33042 has 3 MA's), (Start: 101 @33063 has 20 MA's), (Start: 118 @33099 has 4 MA's), (171, 33213), (172, 33216), (200, 33270), (218, 33297), (271, 33402), (279, 33411), (313, 33483), (344, 33534), (348, 33543), (362, 33564), (378, 33600), (441, 33786), (461, 33828), (463, 33831), (471, 33855), (489, 33921),

Gene: Oscar_27 Start: 22584, Stop: 23552, Start Num: 118

Candidate Starts for Oscar_27:

(Start: 118 @22584 has 4 MA's), (205, 22746), (208, 22752), (221, 22773), (225, 22779), (250, 22821), (269, 22866), (294, 22908), (303, 22923), (386, 23031), (421, 23115), (533, 23391),

Gene: OtterstedtS21_33 Start: 29200, Stop: 30249, Start Num: 112

Candidate Starts for OtterstedtS21_33:

(Start: 112 @29200 has 35 MA's), (174, 29314), (192, 29356), (221, 29410), (230, 29425), (260, 29488), (302, 29548), (361, 29650), (386, 29713), (445, 29884), (551, 30112),

Gene: Outis_46 Start: 35932, Stop: 36987, Start Num: 132

Candidate Starts for Outis_46:

(102, 35869), (Start: 132 @35932 has 36 MA's), (243, 36145), (321, 36304), (336, 36328), (451, 36616), (578, 36916), (591, 36961),

Gene: Pace1224_23 Start: 23102, Stop: 24469, Start Num: 93

Candidate Starts for Pace1224_23:

(79, 23078), (Start: 93 @23102 has 4 MA's), (159, 23225), (171, 23252), (186, 23282), (200, 23312), (231, 23363), (255, 23408), (256, 23411), (266, 23435), (268, 23438), (286, 23471), (355, 23597), (397, 23687), (472, 23924), (479, 23969), (481, 23978), (517, 24044),

Gene: Padfoot_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Padfoot_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (Start: 177 @23467 has 9 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (451, 23992), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Padpat_28 Start: 23316, Stop: 24329, Start Num: 117

Candidate Starts for Padpat_28:

(27, 22872), (95, 23271), (Start: 117 @23316 has 228 MA's), (244, 23541), (303, 23658), (328, 23700), (335, 23712), (386, 23766), (419, 23844), (443, 23940), (451, 23952), (462, 23982), (468, 23991), (514, 24105), (551, 24174),

Gene: Panchino_21 Start: 20180, Stop: 21217, Start Num: 117

Candidate Starts for Panchino_21:

(Start: 117 @20180 has 228 MA's), (192, 20336), (198, 20342), (260, 20450), (267, 20468), (327, 20558), (349, 20603), (390, 20684), (420, 20765), (440, 20852), (451, 20870), (475, 20942), (502, 20987), (578, 21152),

Gene: Paola_27 Start: 23933, Stop: 25000, Start Num: 117

Candidate Starts for Paola_27:

(Start: 117 @23933 has 228 MA's), (174, 24050), (202, 24107), (232, 24155), (237, 24161), (266, 24218), (267, 24221), (277, 24236), (301, 24263), (323, 24302), (327, 24305), (333, 24317), (335, 24320), (336, 24323), (343, 24338), (371, 24383), (373, 24389), (394, 24443), (412, 24491), (422, 24521), (433, 24566), (475, 24695), (501, 24749),

Gene: Parada_27 Start: 23315, Stop: 24382, Start Num: 120

Candidate Starts for Parada_27:

(Start: 120 @23315 has 14 MA's), (229, 23525), (333, 23693), (402, 23834), (408, 23849), (412, 23861), (420, 23885), (438, 23969), (455, 24005), (493, 24116),

Gene: Parmesanjohn_22 Start: 20223, Stop: 21437, Start Num: 101

Candidate Starts for Parmesanjohn_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: ParvusTarda_33 Start: 28670, Stop: 29716, Start Num: 112

Candidate Starts for ParvusTarda_33:

(Start: 112 @28670 has 35 MA's), (174, 28784), (183, 28805), (221, 28880), (230, 28895), (260, 28958), (361, 29120), (445, 29354),

Gene: Patience_38 Start: 32593, Stop: 33633, Start Num: 117

Candidate Starts for Patience_38:

(Start: 117 @32593 has 228 MA's), (160, 32671), (194, 32749), (330, 32962), (333, 32968), (374, 33046), (412, 33139), (421, 33166),

Gene: Patio_48 Start: 36198, Stop: 37259, Start Num: 132

Candidate Starts for Patio_48:

(Start: 132 @36198 has 36 MA's), (222, 36384), (319, 36570), (321, 36573), (421, 36783),

Gene: Patos_34 Start: 29125, Stop: 30174, Start Num: 112

Candidate Starts for Patos_34:

(Start: 112 @29125 has 35 MA's), (154, 29200), (174, 29239), (183, 29260), (221, 29335), (230, 29350), (260, 29413), (386, 29638), (445, 29809), (551, 30037), (564, 30082),

Gene: Patt_29 Start: 24327, Stop: 25331, Start Num: 117

Candidate Starts for Patt_29:

(Start: 117 @24327 has 228 MA's), (209, 24495), (240, 24540), (244, 24546), (265, 24600), (313, 24690), (330, 24711), (335, 24720), (419, 24852), (420, 24855), (464, 24993), (481, 25062),

Gene: Peanam_28 Start: 22728, Stop: 23693, Start Num: 117

Candidate Starts for Peanam_28:

(Start: 117 @22728 has 228 MA's), (121, 22734), (200, 22887), (209, 22905), (221, 22923), (244, 22956), (260, 22998), (294, 23058), (303, 23073), (335, 23127), (419, 23259), (420, 23262), (437, 23334), (468, 23403), (484, 23451), (503, 23466), (519, 23499), (544, 23538), (579, 23637),

Gene: PeanutPie_22 Start: 21330, Stop: 22343, Start Num: 129

Candidate Starts for PeanutPie_22:

(106, 21282), (Start: 114 @21303 has 5 MA's), (Start: 117 @21306 has 228 MA's), (129, 21330), (198, 21468), (222, 21510), (261, 21579), (301, 21639), (327, 21684), (349, 21729), (390, 21810), (412, 21867), (420, 21891), (451, 21996), (475, 22068), (502, 22113), (578, 22278),

Gene: Peel_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Peel_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: PegLeg_31 Start: 26991, Stop: 28046, Start Num: 117

Candidate Starts for PegLeg_31:

(Start: 117 @26991 has 228 MA's), (228, 27204), (252, 27240), (295, 27303), (335, 27375), (349, 27405), (362, 27426), (379, 27462), (394, 27498), (412, 27546), (419, 27567), (421, 27573), (424, 27603), (425, 27606), (439, 27654), (528, 27843), (536, 27864), (560, 27918),

Gene: Pemberton_48 Start: 33038, Stop: 34129, Start Num: 132

Candidate Starts for Pemberton_48:

(Start: 132 @33038 has 36 MA's), (148, 33071), (192, 33167), (285, 33350), (319, 33419), (387, 33557), (394, 33569), (395, 33572),

Gene: PenguinLover67_33 Start: 33434, Stop: 34648, Start Num: 73

Candidate Starts for PenguinLover67_33:

(Start: 73 @33434 has 8 MA's), (142, 33572), (170, 33632), (190, 33680), (192, 33683), (210, 33719), (225, 33740), (250, 33779), (258, 33803), (281, 33842), (300, 33881), (310, 33902), (319, 33920), (321, 33923), (420, 34136), (421, 34139), (431, 34184), (541, 34478),

Gene: Phalm_22 Start: 21561, Stop: 22601, Start Num: 117

Candidate Starts for Phalm_22:

(Start: 117 @21561 has 228 MA's), (192, 21720), (198, 21726), (222, 21768), (260, 21834), (261, 21837), (301, 21897), (327, 21942), (349, 21987), (390, 22068), (412, 22125), (420, 22149), (451, 22254), (475, 22326), (502, 22371),

Gene: Pharb_27 Start: 23529, Stop: 24596, Start Num: 115

Candidate Starts for Pharb_27:

(Start: 115 @23529 has 6 MA's), (138, 23565), (140, 23568), (Start: 177 @23634 has 9 MA's), (190, 23661), (217, 23709), (236, 23736), (244, 23748), (252, 23769), (284, 23835), (335, 23919), (366, 23976), (368, 23979), (419, 24111), (420, 24114), (423, 24147), (431, 24162), (466, 24255), (495, 24345),

Gene: Phayonce_22 Start: 21448, Stop: 22485, Start Num: 117

Candidate Starts for Phayonce_22:

(Start: 117 @21448 has 228 MA's), (198, 21610), (228, 21661), (252, 21697), (264, 21724), (301, 21772), (335, 21829), (353, 21865), (419, 22018), (424, 22054), (451, 22126), (509, 22261), (536, 22315), (569, 22393),

Gene: Phegasus_22 Start: 21305, Stop: 22342, Start Num: 117

Candidate Starts for Phegasus_22:

(106, 21281), (Start: 114 @21302 has 5 MA's), (Start: 117 @21305 has 228 MA's), (129, 21329), (198, 21467), (222, 21509), (261, 21578), (301, 21638), (327, 21683), (349, 21728), (390, 21809), (412, 21866), (420, 21890), (451, 21995), (475, 22067), (502, 22112), (578, 22277),

Gene: PhelpsODU_28 Start: 22720, Stop: 23781, Start Num: 119

Candidate Starts for PhelpsODU_28:

(68, 22630), (85, 22687), (Start: 119 @22720 has 47 MA's), (174, 22819), (236, 22927), (244, 22939), (252, 22960), (303, 23056), (368, 23170), (384, 23221), (423, 23338), (520, 23581), (530, 23599), (551, 23638),

Gene: Philonius_22 Start: 20220, Stop: 21437, Start Num: 99

Candidate Starts for Philonius_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: Phineas_22 Start: 21670, Stop: 22707, Start Num: 117

Candidate Starts for Phineas_22:

(Start: 117 @21670 has 228 MA's), (198, 21835), (222, 21877), (260, 21943), (261, 21946), (267, 21961), (327, 22048), (349, 22093), (390, 22174), (412, 22231), (420, 22255), (451, 22360), (475, 22432), (502, 22477),

Gene: Phishy_30 Start: 26793, Stop: 27842, Start Num: 113

Candidate Starts for Phishy_30:

(Start: 113 @26793 has 4 MA's), (221, 27003), (260, 27081), (330, 27189), (401, 27339), (407, 27351), (412, 27366), (473, 27543), (496, 27618),

Gene: Phomeo_43 Start: 35624, Stop: 36682, Start Num: 132

Candidate Starts for Phomeo_43:

(3, 34184), (5, 34481), (9, 34712), (22, 35081), (64, 35459), (66, 35474), (71, 35492), (Start: 132 @35624 has 36 MA's), (307, 35969), (335, 36020), (362, 36068),

Gene: Phrank_28 Start: 22670, Stop: 23731, Start Num: 119

Candidate Starts for Phrank_28:

(Start: 119 @22670 has 47 MA's), (165, 22748), (167, 22751), (174, 22769), (236, 22877), (250, 22904), (252, 22910), (303, 23006), (309, 23018), (368, 23120), (384, 23171), (423, 23288), (520, 23531), (530, 23549), (551, 23588),

Gene: Phrann_21 Start: 20409, Stop: 21479, Start Num: 114

Candidate Starts for Phrann_21:

(Start: 114 @20409 has 5 MA's), (Start: 117 @20412 has 228 MA's), (198, 20574), (222, 20616), (261, 20685), (301, 20745), (327, 20790), (349, 20835), (382, 20904), (390, 20916), (412, 20973), (420, 20997), (474, 21168),

Gene: Piatt_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Piatt_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (Start: 177 @23467 has 9 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (451, 23992), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Pimento_27 Start: 22790, Stop: 23857, Start Num: 117

Candidate Starts for Pimento_27:

(65, 22655), (Start: 117 @22790 has 228 MA's), (241, 23009), (301, 23111), (326, 23153), (333, 23165), (402, 23309), (412, 23336), (420, 23360), (456, 23483), (483, 23573), (493, 23591),

Gene: Pinnie_24 Start: 23643, Stop: 25013, Start Num: 93

Candidate Starts for Pinnie_24:

(Start: 93 @23643 has 4 MA's), (169, 23784), (171, 23793), (255, 23949), (291, 24021), (397, 24228), (477, 24492), (479, 24510), (481, 24519), (517, 24585), (600, 24984),

Gene: Pipsqueaks_22 Start: 20220, Stop: 21437, Start Num: 99

Candidate Starts for Pipsqueaks_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: Pisa1_27 Start: 23391, Stop: 24404, Start Num: 117

Candidate Starts for Pisa1_27:

(Start: 117 @23391 has 228 MA's), (Start: 177 @23502 has 9 MA's), (238, 23607), (244, 23616), (278, 23691), (303, 23733), (328, 23775), (335, 23787), (386, 23841), (419, 23919), (443, 24015), (451, 24027), (459, 24051), (551, 24249), (580, 24345),

Gene: Pisa4_27 Start: 23391, Stop: 24404, Start Num: 117

Candidate Starts for Pisa4_27:

(Start: 117 @23391 has 228 MA's), (Start: 177 @23502 has 9 MA's), (238, 23607), (244, 23616), (278, 23691), (303, 23733), (328, 23775), (335, 23787), (386, 23841), (419, 23919), (443, 24015), (451, 24027), (459, 24051), (551, 24249), (580, 24345),

Gene: Pixie_28 Start: 23724, Stop: 24788, Start Num: 119

Candidate Starts for Pixie_28:

(20, 23172), (21, 23238), (26, 23301), (28, 23313), (29, 23334), (35, 23376), (51, 23535), (68, 23634), (85, 23691), (Start: 119 @23724 has 47 MA's), (190, 23856), (193, 23862), (236, 23931), (240, 23937), (265, 23997), (278, 24018), (286, 24033), (333, 24111), (419, 24303), (423, 24339), (438, 24387), (457, 24429), (510, 24555),

Gene: Pleakley_53 Start: 35398, Stop: 36480, Start Num: 132

Candidate Starts for Pleakley_53:

(Start: 132 @35398 has 36 MA's), (187, 35515), (302, 35743), (346, 35827), (349, 35833), (373, 35872), (377, 35887), (394, 35929), (445, 36094), (516, 36274), (578, 36412),

Gene: Pokerus_27 Start: 23273, Stop: 24286, Start Num: 117

Candidate Starts for Pokerus_27:

(27, 22829), (95, 23228), (Start: 117 @23273 has 228 MA's), (Start: 177 @23384 has 9 MA's), (244, 23498), (303, 23615), (328, 23657), (335, 23669), (386, 23723), (419, 23801), (443, 23897), (451, 23909), (462, 23939), (468, 23948), (514, 24062), (551, 24131),

Gene: Poland_34 Start: 38011, Stop: 38913, Start Num: 201

Candidate Starts for Poland_34:

(Start: 201 @38011 has 28 MA's), (259, 38116), (273, 38146), (290, 38176), (298, 38188), (347, 38272), (375, 38320), (387, 38356), (420, 38437), (435, 38491), (466, 38581), (529, 38728), (593, 38896),

Gene: Polkaroo_22 Start: 21315, Stop: 22352, Start Num: 117

Candidate Starts for Polkaroo_22:

(106, 21291), (Start: 114 @21312 has 5 MA's), (Start: 117 @21315 has 228 MA's), (129, 21339), (198, 21477), (222, 21519), (261, 21588), (301, 21648), (327, 21693), (349, 21738), (390, 21819), (412, 21876), (420, 21900), (451, 22005), (475, 22077), (502, 22122), (578, 22287),

Gene: Prithvi_28 Start: 23290, Stop: 24303, Start Num: 117

Candidate Starts for Prithvi_28:

(95, 23245), (Start: 117 @23290 has 228 MA's), (Start: 177 @23401 has 9 MA's), (244, 23515), (303, 23632), (328, 23674), (335, 23686), (386, 23740), (419, 23818), (438, 23902), (443, 23914), (451, 23926), (468, 23965), (580, 24244),

Gene: Psycho_28 Start: 24008, Stop: 25072, Start Num: 117

Candidate Starts for Psycho_28:

(Start: 117 @24008 has 228 MA's), (163, 24098), (175, 24128), (202, 24182), (206, 24188), (237, 24236), (258, 24275), (266, 24293), (267, 24296), (323, 24377), (349, 24425), (361, 24443), (420, 24584), (440, 24674), (441, 24677), (443, 24680), (458, 24713), (464, 24725), (493, 24812), (496, 24815), (543, 24911), (584, 25028),

Gene: Purky_22 Start: 21124, Stop: 22170, Start Num: 117

Candidate Starts for Purky_22:

(Start: 117 @21124 has 228 MA's), (228, 21337), (301, 21448), (327, 21490), (329, 21493), (365, 21562), (419, 21694), (424, 21730), (466, 21838), (536, 21991), (541, 22000), (548, 22012),

Gene: Pywacket_32 Start: 30015, Stop: 31064, Start Num: 112

Candidate Starts for Pywacket_32:

(Start: 112 @30015 has 35 MA's), (154, 30090), (174, 30129), (183, 30150), (221, 30225), (230, 30240), (260, 30303), (302, 30363), (361, 30465), (386, 30528), (445, 30699), (551, 30927),

Gene: Qhanda_30 Start: 24605, Stop: 25609, Start Num: 117

Candidate Starts for Qhanda_30:

(Start: 117 @24605 has 228 MA's), (209, 24773), (240, 24818), (244, 24824), (265, 24878), (271, 24887), (313, 24968), (330, 24989), (333, 24995), (335, 24998), (419, 25130), (420, 25133), (457, 25256),

Gene: Quby_21 Start: 21546, Stop: 22553, Start Num: 142

Candidate Starts for Quby_21:

(Start: 101 @21468 has 20 MA's), (142, 21546), (238, 21720), (254, 21759), (271, 21798), (289, 21831), (331, 21909), (347, 21942), (431, 22104), (519, 22338), (533, 22371), (547, 22395), (566, 22440),

Gene: Quesadilla_32 Start: 33335, Stop: 34516, Start Num: 73

Candidate Starts for Quesadilla_32:

(64, 33302), (Start: 73 @33335 has 8 MA's), (126, 33452), (137, 33467), (142, 33473), (170, 33533), (190, 33581), (203, 33605), (231, 33650), (253, 33689), (257, 33701), (261, 33710), (272, 33728), (295, 33770), (301, 33785), (321, 33824), (327, 33830), (351, 33875), (355, 33881), (377, 33926), (422, 34028),

Gene: QuincyRose_27 Start: 23336, Stop: 24349, Start Num: 117

Candidate Starts for QuincyRose_27:

(27, 22892), (95, 23291), (Start: 117 @23336 has 228 MA's), (Start: 177 @23447 has 9 MA's), (244, 23561), (303, 23678), (328, 23720), (335, 23732), (354, 23771), (386, 23786), (419, 23864), (438, 23948), (443, 23960), (451, 23972), (468, 24011), (514, 24125), (551, 24194),

Gene: Ramen_28 Start: 23322, Stop: 24335, Start Num: 117

Candidate Starts for Ramen_28:

(27, 22878), (95, 23277), (Start: 117 @23322 has 228 MA's), (Start: 177 @23433 has 9 MA's), (244, 23547), (303, 23664), (328, 23706), (335, 23718), (386, 23772), (419, 23850), (443, 23946), (462, 23988), (468, 23997), (514, 24111), (551, 24180),

Gene: Ranch_33 Start: 28024, Stop: 29073, Start Num: 112

Candidate Starts for Ranch_33:

(Start: 112 @28024 has 35 MA's), (174, 28138), (192, 28180), (221, 28234), (230, 28249), (260, 28312), (386, 28537), (445, 28708), (551, 28936), (564, 28981),

Gene: Rando14_28 Start: 22698, Stop: 23777, Start Num: 117

Candidate Starts for Rando14_28:

(Start: 117 @22698 has 228 MA's), (125, 22716), (175, 22818), (202, 22872), (204, 22875), (206, 22878), (237, 22926), (257, 22962), (258, 22965), (260, 22968), (277, 23001), (343, 23103), (349, 23115), (357, 23127), (361, 23133), (367, 23145), (375, 23166), (407, 23244), (421, 23286), (429, 23328), (440, 23373), (491, 23502),

Gene: Rapunzel97_28 Start: 23323, Stop: 24336, Start Num: 117

Candidate Starts for Rapunzel97_28:

(27, 22879), (43, 23026), (95, 23278), (Start: 117 @23323 has 228 MA's), (Start: 177 @23434 has 9 MA's), (244, 23548), (303, 23665), (328, 23707), (335, 23719), (386, 23773), (419, 23851), (443, 23947), (451, 23959), (462, 23989), (468, 23998), (514, 24112), (551, 24181),

Gene: RavenCo17_26 Start: 23835, Stop: 24911, Start Num: 117

Candidate Starts for RavenCo17_26:

(65, 23700), (Start: 117 @23835 has 228 MA's), (185, 23973), (221, 24045), (242, 24075), (326, 24225), (333, 24237), (357, 24279), (363, 24291), (390, 24348), (412, 24399), (431, 24471), (464, 24564), (536, 24726), (584, 24867),

Gene: Raymond7_21 Start: 20415, Stop: 21500, Start Num: 117

Candidate Starts for Raymond7_21:

(Start: 117 @20415 has 228 MA's), (198, 20577), (261, 20688), (264, 20697), (267, 20703), (301, 20748), (327, 20793), (390, 20919), (394, 20928), (412, 20976),

Gene: RazorC_31 Start: 27503, Stop: 28600, Start Num: 112

Candidate Starts for RazorC_31:

(Start: 112 @27503 has 35 MA's), (174, 27617), (233, 27710), (251, 27743), (252, 27746), (253, 27749), (261, 27770), (266, 27782), (302, 27830), (336, 27893), (365, 27947), (403, 28043), (417, 28085), (483, 28319), (510, 28358), (552, 28445), (596, 28592),

Gene: Rebel_21 Start: 19868, Stop: 20905, Start Num: 117

Candidate Starts for Rebel_21:

(49, 19631), (55, 19673), (60, 19703), (65, 19733), (78, 19793), (108, 19847), (Start: 117 @19868 has 228 MA's), (198, 20030), (222, 20072), (261, 20141), (301, 20201), (327, 20246), (349, 20291), (382, 20360), (412, 20429), (420, 20453), (451, 20558), (475, 20630), (502, 20675),

Gene: RedRaider_52 Start: 38220, Stop: 39278, Start Num: 132

Candidate Starts for RedRaider_52:

(Start: 132 @38220 has 36 MA's), (214, 38394), (246, 38448), (331, 38610), (362, 38664), (451, 38907), (578, 39207),

Gene: Reindeer_30 Start: 26952, Stop: 28001, Start Num: 117

Candidate Starts for Reindeer_30:

(Start: 117 @26952 has 228 MA's), (139, 26988), (228, 27165), (264, 27228), (266, 27231), (299, 27270), (307, 27285), (336, 27336), (362, 27384), (394, 27453), (412, 27501), (419, 27522), (421, 27528), (424, 27558), (451, 27630), (509, 27765), (536, 27819), (558, 27870), (561, 27876), (569, 27909),

Gene: Rem711_30 Start: 25189, Stop: 26352, Start Num: 69

Candidate Starts for Rem711_30:

(Start: 69 @25189 has 2 MA's), (191, 25450), (226, 25510), (252, 25555), (258, 25573), (278, 25609), (348, 25717), (370, 25732), (392, 25789), (440, 25951), (501, 26101),

Gene: Reptar3000_29 Start: 24320, Stop: 25324, Start Num: 117

Candidate Starts for Reptar3000_29:

(Start: 117 @24320 has 228 MA's), (209, 24488), (240, 24533), (244, 24539), (265, 24593), (271, 24602), (313, 24683), (330, 24704), (335, 24713), (419, 24845), (420, 24848), (464, 24986), (481, 25055), (576, 25259),

Gene: Rey_35 Start: 28073, Stop: 29155, Start Num: 92

Candidate Starts for Rey_35:

(89, 28067), (Start: 92 @28073 has 6 MA's), (133, 28148), (159, 28193), (167, 28205), (172, 28223), (Start: 177 @28232 has 9 MA's), (200, 28283), (208, 28298), (223, 28322), (238, 28343), (263, 28403), (398, 28622), (555, 29024),

Gene: Richo_28 Start: 22728, Stop: 23693, Start Num: 117

Candidate Starts for Richo_28:

(Start: 117 @22728 has 228 MA's), (121, 22734), (200, 22887), (209, 22905), (221, 22923), (244, 22956), (260, 22998), (294, 23058), (303, 23073), (419, 23259), (420, 23262), (437, 23334), (468, 23403), (484, 23451), (503, 23466), (519, 23499), (544, 23538), (579, 23637),

Gene: Riduram_30 Start: 27081, Stop: 28178, Start Num: 112

Candidate Starts for Riduram_30:

(Start: 112 @27081 has 35 MA's), (174, 27195), (233, 27288), (251, 27321), (252, 27324), (253, 27327), (261, 27348), (266, 27360), (302, 27408), (336, 27471), (365, 27525), (403, 27621), (417, 27663), (483, 27897), (510, 27936), (552, 28023), (596, 28170),

Gene: Rosmarinus_28 Start: 23344, Stop: 24357, Start Num: 117

Candidate Starts for Rosmarinus_28:

(27, 22900), (95, 23299), (Start: 117 @23344 has 228 MA's), (244, 23569), (303, 23686), (328, 23728), (335, 23740), (386, 23794), (419, 23872), (443, 23968), (462, 24010), (468, 24019), (514, 24133), (551, 24202),

Gene: Rota_32 Start: 29482, Stop: 30456, Start Num: 154

Candidate Starts for Rota_32:

(Start: 112 @29407 has 35 MA's), (154, 29482), (174, 29521), (192, 29563), (221, 29617), (230, 29632), (260, 29695), (386, 29920), (445, 30091), (551, 30319),

Gene: Rubeelu_22 Start: 19998, Stop: 21038, Start Num: 115

Candidate Starts for Rubeelu_22:

(80, 19932), (Start: 115 @19998 has 6 MA's), (192, 20157), (198, 20163), (260, 20271), (261, 20274), (267, 20289), (327, 20379), (349, 20424), (390, 20505), (412, 20562), (420, 20586), (440, 20673), (451, 20691), (475, 20763), (502, 20808), (578, 20973),

Gene: Rukungu_33 Start: 29795, Stop: 30766, Start Num: 154

Candidate Starts for Rukungu_33:

(Start: 112 @29720 has 35 MA's), (154, 29795), (174, 29834), (183, 29855), (221, 29930), (230, 29945), (260, 30008), (302, 30068), (386, 30233), (445, 30404),

Gene: Rumi_32 Start: 27114, Stop: 28211, Start Num: 112

Candidate Starts for Rumi_32:

(Start: 112 @27114 has 35 MA's), (174, 27228), (233, 27321), (251, 27354), (252, 27357), (253, 27360), (261, 27381), (266, 27393), (302, 27441), (336, 27504), (365, 27558), (403, 27654), (417, 27696), (454, 27822), (483, 27930), (510, 27969), (552, 28056), (596, 28203),

Gene: Ruthiejr_29 Start: 24262, Stop: 25296, Start Num: 115

Candidate Starts for Ruthiejr_29:

(80, 24196), (Start: 115 @24262 has 6 MA's), (192, 24418), (196, 24421), (222, 24466), (228, 24475), (267, 24550), (327, 24637), (349, 24682), (390, 24763), (412, 24820), (420, 24844), (451, 24949), (475, 25021), (511, 25081), (578, 25231),

Gene: Salvus_26 Start: 22028, Stop: 23053, Start Num: 111

Candidate Starts for Salvus_26:

(Start: 111 @22028 has 2 MA's), (160, 22118), (296, 22337), (298, 22340), (302, 22352), (374, 22484), (386, 22520), (412, 22571), (423, 22628), (521, 22865), (571, 22991),

Gene: SamScheppers_27 Start: 24552, Stop: 25625, Start Num: 114

Candidate Starts for SamScheppers_27:

(Start: 114 @24552 has 5 MA's), (Start: 117 @24555 has 228 MA's), (247, 24795), (261, 24831), (264, 24840), (267, 24846), (301, 24891), (327, 24936), (336, 24954), (349, 24981), (390, 25062), (412, 25119), (420, 25143),

Gene: Sampudon_33 Start: 30054, Stop: 31103, Start Num: 112

Candidate Starts for Sampudon_33:

(Start: 112 @30054 has 35 MA's), (174, 30168), (183, 30189), (221, 30264), (230, 30279), (260, 30342), (302, 30402), (361, 30504), (386, 30567), (445, 30738), (551, 30966),

Gene: SamuelLPlaqson_28 Start: 23284, Stop: 24297, Start Num: 117

Candidate Starts for SamuelLPlaqson_28:

(95, 23239), (Start: 117 @23284 has 228 MA's), (Start: 177 @23395 has 9 MA's), (244, 23509), (303, 23626), (328, 23668), (335, 23680), (386, 23734), (419, 23812), (443, 23908), (451, 23920), (468,

23959), (477, 23995), (551, 24142), (580, 24238),

Gene: Sbash_21 Start: 21030, Stop: 22079, Start Num: 117

Candidate Starts for Sbash_21:

(Start: 117 @21030 has 228 MA's), (198, 21192), (228, 21243), (264, 21306), (335, 21411), (419, 21600), (424, 21636), (451, 21708), (509, 21843), (536, 21897), (569, 21987),

Gene: Scarlett_27 Start: 22586, Stop: 23545, Start Num: 118

Candidate Starts for Scarlett_27:

(Start: 118 @22586 has 4 MA's), (205, 22748), (208, 22754), (221, 22775), (225, 22781), (250, 22823), (269, 22868), (294, 22910), (303, 22925), (386, 23033), (421, 23117), (533, 23393),

Gene: Schnauzer_22 Start: 20223, Stop: 21437, Start Num: 101

Candidate Starts for Schnauzer_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: Scitech_21 Start: 20194, Stop: 21228, Start Num: 117

Candidate Starts for Scitech_21:

(Start: 117 @20194 has 228 MA's), (192, 20350), (198, 20356), (260, 20464), (261, 20467), (267, 20482), (327, 20569), (349, 20614), (390, 20695), (412, 20752), (420, 20776), (451, 20881), (475, 20953), (502, 20998),

Gene: Scuba_53 Start: 35472, Stop: 36554, Start Num: 132

Candidate Starts for Scuba_53:

(Start: 132 @35472 has 36 MA's), (187, 35589), (302, 35817), (346, 35901), (349, 35907), (377, 35961), (578, 36486),

Gene: SgtBeansprout_24 Start: 22900, Stop: 23907, Start Num: 119

Candidate Starts for SgtBeansprout_24:

(94, 22849), (100, 22861), (Start: 119 @22900 has 47 MA's), (152, 22960), (190, 23032), (221, 23086), (236, 23107), (303, 23236), (330, 23281), (331, 23284), (384, 23341), (386, 23344), (408, 23389), (420, 23425), (443, 23521), (451, 23533), (500, 23653), (564, 23785),

Gene: Shadow1_27 Start: 22543, Stop: 23604, Start Num: 119

Candidate Starts for Shadow1_27:

(68, 22453), (Start: 119 @22543 has 47 MA's), (167, 22624), (174, 22642), (236, 22750), (244, 22762), (252, 22783), (303, 22879), (368, 22993), (384, 23044), (423, 23161), (431, 23176), (451, 23233), (468, 23272), (551, 23461),

Gene: Shaobing_28 Start: 22728, Stop: 23693, Start Num: 117

Candidate Starts for Shaobing_28:

(Start: 117 @22728 has 228 MA's), (121, 22734), (200, 22887), (209, 22905), (221, 22923), (244, 22956), (260, 22998), (294, 23058), (303, 23073), (419, 23259), (420, 23262), (437, 23334), (468, 23403), (484, 23451), (503, 23466), (519, 23499), (544, 23538), (579, 23637),

Gene: ShedlockHolmes_28 Start: 23930, Stop: 24949, Start Num: 119

Candidate Starts for ShedlockHolmes_28:

(30, 23549), (32, 23561), (36, 23597), (39, 23621), (51, 23741), (68, 23840), (85, 23897), (Start: 119 @23930 has 47 MA's), (138, 23963), (190, 24062), (193, 24068), (200, 24080), (236, 24137), (240, 24143), (265, 24203), (303, 24266), (308, 24275), (330, 24311), (340, 24332), (346, 24344), (393, 24383), (419, 24452), (445, 24551), (468, 24599), (477, 24635), (506, 24698), (527, 24740), (551,

24788), (566, 24830), (591, 24926),

Gene: Shelley_30 Start: 37583, Stop: 38485, Start Num: 201

Candidate Starts for Shelley_30:

(Start: 201 @37583 has 28 MA's), (273, 37721), (311, 37790), (340, 37838), (375, 37901), (387, 37937), (439, 38105), (557, 38357), (591, 38462),

Gene: ShiaSurprise_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for ShiaSurprise_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (Start: 177 @23467 has 9 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (451, 23992), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Shweta_21 Start: 20201, Stop: 21238, Start Num: 117

Candidate Starts for Shweta_21:

(Start: 117 @20201 has 228 MA's), (192, 20357), (198, 20363), (222, 20405), (260, 20471), (261, 20474), (301, 20534), (327, 20579), (349, 20624), (390, 20705), (412, 20762), (420, 20786), (451, 20891), (475, 20963), (502, 21008),

Gene: Silvafighter_22 Start: 20223, Stop: 21437, Start Num: 101

Candidate Starts for Silvafighter_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: Silvy_22 Start: 20224, Stop: 21438, Start Num: 101

Candidate Starts for Silvy_22:

(37, 19894), (Start: 59 @20092 has 1 MA's), (Start: 99 @20221 has 6 MA's), (Start: 101 @20224 has 20 MA's), (233, 20485), (315, 20656), (389, 20806), (406, 20845), (436, 20947), (440, 20989), (575, 21361),

Gene: SirPhilip_27 Start: 22229, Stop: 23257, Start Num: 119

Candidate Starts for SirPhilip_27:

(Start: 119 @22229 has 47 MA's), (209, 22400), (221, 22418), (250, 22466), (278, 22526), (303, 22568), (311, 22586), (328, 22610), (354, 22661), (393, 22685), (414, 22742), (420, 22757), (437, 22829), (468, 22898),

Gene: Skinny_32 Start: 27432, Stop: 28493, Start Num: 117

Candidate Starts for Skinny_32:

(Start: 117 @27432 has 228 MA's), (139, 27468), (158, 27510), (202, 27600), (214, 27621), (232, 27648), (264, 27711), (326, 27801), (332, 27813), (338, 27822), (363, 27867), (394, 27933), (420, 28005), (440, 28095), (451, 28113), (491, 28230), (503, 28242), (543, 28332),

Gene: SkinnyPete_21 Start: 20204, Stop: 21241, Start Num: 117

Candidate Starts for SkinnyPete_21:

(Start: 117 @20204 has 228 MA's), (192, 20360), (198, 20366), (260, 20474), (267, 20492), (327, 20582), (349, 20627), (390, 20708), (420, 20789), (440, 20876), (451, 20894), (475, 20966), (502, 21011), (578, 21176),

Gene: Skysand_47 Start: 36418, Stop: 37479, Start Num: 132

Candidate Starts for Skysand_47:

(Start: 132 @36418 has 36 MA's), (222, 36604), (319, 36790), (321, 36793), (421, 37003),

Gene: Slarp_29 Start: 24596, Stop: 25600, Start Num: 117

Candidate Starts for Slarp_29:

(Start: 117 @24596 has 228 MA's), (209, 24764), (240, 24809), (244, 24815), (265, 24869), (271, 24878), (313, 24959), (330, 24980), (333, 24986), (335, 24989), (419, 25121), (420, 25124), (457, 25247),

Gene: SlimJimmy_30 Start: 26975, Stop: 28030, Start Num: 117

Candidate Starts for SlimJimmy_30:

(Start: 117 @26975 has 228 MA's), (228, 27188), (252, 27224), (295, 27287), (335, 27359), (349, 27389), (362, 27410), (379, 27446), (394, 27482), (412, 27530), (419, 27551), (421, 27557), (424, 27587), (425, 27590), (439, 27638), (536, 27848), (560, 27902),

Gene: Slimphazie_28 Start: 23323, Stop: 24336, Start Num: 117

Candidate Starts for Slimphazie_28:

(27, 22879), (43, 23026), (95, 23278), (Start: 117 @23323 has 228 MA's), (Start: 177 @23434 has 9 MA's), (244, 23548), (303, 23665), (328, 23707), (335, 23719), (386, 23773), (419, 23851), (443, 23947), (451, 23959), (462, 23989), (468, 23998), (514, 24112), (551, 24181),

Gene: Smurph_22 Start: 20223, Stop: 21437, Start Num: 101

Candidate Starts for Smurph_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: SoSeph_27 Start: 24081, Stop: 25148, Start Num: 117

Candidate Starts for SoSeph_27:

(Start: 117 @24081 has 228 MA's), (174, 24198), (202, 24255), (232, 24303), (237, 24309), (266, 24366), (267, 24369), (277, 24384), (301, 24411), (323, 24450), (327, 24453), (333, 24465), (335, 24468), (336, 24471), (343, 24486), (371, 24531), (373, 24537), (394, 24591), (412, 24639), (422, 24669), (433, 24714), (475, 24843), (501, 24897),

Gene: Sonah_22 Start: 21289, Stop: 22326, Start Num: 117

Candidate Starts for Sonah_22:

(106, 21265), (Start: 114 @21286 has 5 MA's), (Start: 117 @21289 has 228 MA's), (129, 21313), (198, 21451), (222, 21493), (261, 21562), (301, 21622), (327, 21667), (349, 21712), (390, 21793), (412, 21850), (420, 21874), (451, 21979), (475, 22051), (502, 22096), (578, 22261),

Gene: SororFago_32 Start: 24455, Stop: 25399, Start Num: 177

Candidate Starts for SororFago_32:

(Start: 177 @24455 has 9 MA's), (245, 24578), (258, 24614), (299, 24689), (333, 24752), (336, 24758), (353, 24791), (420, 24893),

Gene: Sparky_21 Start: 21885, Stop: 22931, Start Num: 117

Candidate Starts for Sparky_21:

(Start: 117 @21885 has 228 MA's), (228, 22098), (235, 22104), (301, 22209), (327, 22251), (329, 22254), (365, 22323), (419, 22455), (424, 22491), (466, 22599), (536, 22752), (541, 22761), (548, 22773),

Gene: Spock_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Spock_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Sprinklemunch_22 Start: 21828, Stop: 22874, Start Num: 113

Candidate Starts for Sprinklemunch_22:

(Start: 113 @21828 has 4 MA's), (170, 21933), (221, 22038), (310, 22194), (319, 22212), (324, 22215), (354, 22269), (412, 22398), (465, 22554), (482, 22626), (512, 22674), (514, 22677), (532, 22710),

Gene: StarStruck_46 Start: 35932, Stop: 36987, Start Num: 132

Candidate Starts for StarStruck_46:

(102, 35869), (Start: 132 @35932 has 36 MA's), (243, 36145), (321, 36304), (336, 36328), (451, 36616), (578, 36916), (591, 36961),

Gene: StevieRay_22 Start: 21290, Stop: 22327, Start Num: 117

Candidate Starts for StevieRay_22:

(106, 21266), (Start: 114 @21287 has 5 MA's), (Start: 117 @21290 has 228 MA's), (129, 21314), (198, 21452), (222, 21494), (261, 21563), (301, 21623), (327, 21668), (349, 21713), (390, 21794), (412, 21851), (420, 21875), (451, 21980), (475, 22052), (502, 22097), (578, 22262),

Gene: Stinson_29 Start: 23565, Stop: 24578, Start Num: 117

Candidate Starts for Stinson_29:

(Start: 117 @23565 has 228 MA's), (Start: 177 @23676 has 9 MA's), (244, 23790), (303, 23907), (328, 23949), (386, 24015), (393, 24024), (419, 24093), (443, 24189), (451, 24201), (514, 24354), (551, 24423), (580, 24519),

Gene: Stormer_32 Start: 27117, Stop: 28214, Start Num: 112

Candidate Starts for Stormer_32:

(Start: 112 @27117 has 35 MA's), (174, 27231), (233, 27324), (251, 27357), (252, 27360), (253, 27363), (260, 27381), (261, 27384), (302, 27444), (330, 27495), (336, 27507), (342, 27519), (365, 27561), (403, 27657), (417, 27699), (483, 27933), (510, 27972), (552, 28059), (596, 28206),

Gene: StressBall_22 Start: 21561, Stop: 22601, Start Num: 117

Candidate Starts for StressBall_22:

(Start: 117 @21561 has 228 MA's), (192, 21720), (198, 21726), (222, 21768), (260, 21834), (261, 21837), (301, 21897), (327, 21942), (349, 21987), (390, 22068), (412, 22125), (420, 22149), (451, 22254), (475, 22326), (502, 22371),

Gene: Strobilo_25 Start: 21282, Stop: 22277, Start Num: 119

Candidate Starts for Strobilo_25:

(68, 21198), (Start: 119 @21282 has 47 MA's), (164, 21363), (174, 21387), (205, 21447), (240, 21501), (244, 21507), (293, 21609), (295, 21612), (322, 21660), (328, 21666), (384, 21729), (386, 21732), (407, 21774), (421, 21816), (440, 21900), (468, 21957), (587, 22254),

Gene: Sukkupi_46 Start: 34612, Stop: 35703, Start Num: 132

Candidate Starts for Sukkupi_46:

(Start: 132 @34612 has 36 MA's), (148, 34645), (192, 34741), (285, 34924), (319, 34993), (387, 35131), (394, 35143), (395, 35146),

Gene: Sulley_28 Start: 23289, Stop: 24302, Start Num: 117

Candidate Starts for Sulley_28:

(Start: 117 @23289 has 228 MA's), (Start: 177 @23400 has 9 MA's), (244, 23514), (303, 23631), (335, 23685), (386, 23739), (419, 23817), (443, 23913), (451, 23925), (462, 23955), (468, 23964), (514, 24078), (551, 24147),

Gene: Sunflower1121_27 Start: 22555, Stop: 23616, Start Num: 119

Candidate Starts for Sunflower1121_27:

(68, 22465), (Start: 119 @22555 has 47 MA's), (167, 22636), (174, 22654), (236, 22762), (244, 22774), (252, 22795), (303, 22891), (368, 23005), (384, 23056), (423, 23173), (451, 23245), (468, 23284), (513, 23404), (551, 23473),

Gene: SuperSonics_37 Start: 31769, Stop: 32809, Start Num: 117

Candidate Starts for SuperSonics_37:

(Start: 117 @31769 has 228 MA's), (160, 31847), (194, 31925), (330, 32138), (333, 32144), (374, 32222), (412, 32315), (421, 32342),

Gene: SuperSulley_46 Start: 36118, Stop: 37173, Start Num: 132

Candidate Starts for SuperSulley_46:

(Start: 132 @36118 has 36 MA's), (243, 36331), (336, 36514), (451, 36802), (591, 37147),

Gene: Syra333_28 Start: 22645, Stop: 23640, Start Num: 119

Candidate Starts for Syra333_28:

(68, 22555), (Start: 119 @22645 has 47 MA's), (174, 22744), (Start: 177 @22750 has 9 MA's), (257, 22900), (303, 22981), (419, 23167), (420, 23170), (439, 23254), (443, 23263), (459, 23299), (531, 23449), (585, 23599), (591, 23617),

Gene: TBond007_28 Start: 23723, Stop: 24787, Start Num: 119

Candidate Starts for TBond007_28:

(20, 23171), (21, 23237), (26, 23300), (29, 23333), (35, 23375), (51, 23534), (68, 23633), (85, 23690), (Start: 119 @23723 has 47 MA's), (190, 23855), (193, 23861), (236, 23930), (240, 23936), (265, 23996), (278, 24017), (286, 24032), (333, 24110), (419, 24302), (423, 24338), (438, 24386), (457, 24428), (510, 24554),

Gene: TClif_28 Start: 22714, Stop: 23739, Start Num: 117

Candidate Starts for TClif_28:

(Start: 117 @22714 has 228 MA's), (172, 22813), (174, 22816), (205, 22876), (233, 22921), (252, 22957), (295, 23041), (322, 23089), (393, 23173), (402, 23197), (420, 23248), (438, 23329), (553, 23581), (566, 23620), (591, 23716),

Gene: TM4_25 Start: 21422, Stop: 22426, Start Num: 119

Candidate Starts for TM4_25:

(Start: 119 @21422 has 47 MA's), (174, 21527), (205, 21587), (209, 21596), (240, 21641), (244, 21647), (265, 21701), (297, 21755), (333, 21815), (349, 21848), (386, 21872), (420, 21953), (421, 21956), (440, 22040), (457, 22076), (587, 22403),

Gene: Tachez_28 Start: 23285, Stop: 24298, Start Num: 117

Candidate Starts for Tachez_28:

(27, 22841), (43, 22988), (95, 23240), (Start: 117 @23285 has 228 MA's), (Start: 177 @23396 has 9 MA's), (244, 23510), (303, 23627), (328, 23669), (335, 23681), (386, 23735), (419, 23813), (443, 23909), (451, 23921), (462, 23951), (468, 23960), (514, 24074), (551, 24143),

Gene: TaiwanKao_29 Start: 23407, Stop: 24309, Start Num: 177

Candidate Starts for TaiwanKao_29:

(95, 23251), (Start: 117 @23296 has 228 MA's), (Start: 177 @23407 has 9 MA's), (244, 23521), (303, 23638), (328, 23680), (335, 23692), (386, 23746), (419, 23824), (438, 23908), (443, 23920), (451, 23932), (468, 23971), (503, 24061), (580, 24250),

Gene: Tapioca_22 Start: 20223, Stop: 21437, Start Num: 101

Candidate Starts for Tapioca_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: Taquito_27 Start: 24633, Stop: 25676, Start Num: 113

Candidate Starts for Taquito_27:

(Start: 113 @24633 has 4 MA's), (Start: 117 @24636 has 228 MA's), (247, 24876), (261, 24912), (264, 24921), (267, 24927), (301, 24972), (327, 25017), (336, 25035), (349, 25062), (390, 25143), (412, 25200), (420, 25224), (451, 25329), (475, 25401), (502, 25446),

Gene: Teal_30 Start: 38566, Stop: 39468, Start Num: 201

Candidate Starts for Teal_30:

(Start: 201 @38566 has 28 MA's), (273, 38704), (311, 38773), (340, 38821), (375, 38884), (387, 38920), (439, 39088), (557, 39340), (591, 39445),

Gene: Techage_22 Start: 21290, Stop: 22327, Start Num: 117

Candidate Starts for Techage_22:

(106, 21266), (Start: 114 @21287 has 5 MA's), (Start: 117 @21290 has 228 MA's), (129, 21314), (198, 21452), (222, 21494), (261, 21563), (301, 21623), (327, 21668), (349, 21713), (390, 21794), (412, 21851), (420, 21875), (451, 21980), (475, 22052), (502, 22097), (578, 22262),

Gene: Teejan_24 Start: 22861, Stop: 23907, Start Num: 100

Candidate Starts for Teejan_24:

(94, 22849), (100, 22861), (Start: 119 @22900 has 47 MA's), (152, 22960), (190, 23032), (221, 23086), (236, 23107), (303, 23236), (330, 23281), (331, 23284), (384, 23341), (386, 23344), (408, 23389), (420, 23425), (443, 23521), (451, 23533), (500, 23653), (564, 23785),

Gene: Tessdabest_21 Start: 20220, Stop: 21434, Start Num: 101

Candidate Starts for Tessdabest_21:

(37, 19890), (Start: 59 @20088 has 1 MA's), (Start: 99 @20217 has 6 MA's), (Start: 101 @20220 has 20 MA's), (233, 20481), (315, 20652), (389, 20802), (406, 20841), (436, 20943), (440, 20985), (575, 21357),

Gene: Thespis_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for Thespis_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412, 21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: Thonko_30 Start: 29614, Stop: 30771, Start Num: 73

Candidate Starts for Thonko_30:

(64, 29584), (Start: 73 @29614 has 8 MA's), (126, 29728), (185, 29845), (190, 29860), (195, 29869), (205, 29887), (215, 29905), (250, 29959), (295, 30049), (304, 30067), (311, 30085), (417, 30319), (420, 30328), (426, 30370), (460, 30460), (468, 30472),

Gene: ThulaThula_22 Start: 21454, Stop: 22491, Start Num: 117

Candidate Starts for ThulaThula_22:

(Start: 117 @21454 has 228 MA's), (198, 21616), (228, 21667), (252, 21703), (264, 21730), (301, 21778), (335, 21835), (353, 21871), (419, 22024), (424, 22060), (451, 22132), (509, 22267), (536, 22321), (569, 22399),

Gene: Thyatira_27 Start: 23933, Stop: 25000, Start Num: 117

Candidate Starts for Thyatira_27:

(Start: 117 @23933 has 228 MA's), (174, 24050), (202, 24107), (232, 24155), (237, 24161), (266, 24218), (267, 24221), (277, 24236), (301, 24263), (323, 24302), (327, 24305), (333, 24317), (335, 24320), (336, 24323), (343, 24338), (371, 24383), (373, 24389), (394, 24443), (412, 24491), (422, 24521), (433, 24566), (475, 24695), (501, 24749), (524, 24794),

Gene: Tierra_28 Start: 23391, Stop: 24452, Start Num: 119

Candidate Starts for Tierra_28:

(Start: 119 @23391 has 47 MA's), (165, 23469), (167, 23472), (174, 23490), (195, 23532), (236, 23598), (252, 23631), (303, 23727), (309, 23739), (368, 23841), (384, 23892), (423, 24009), (520, 24252), (530, 24270), (551, 24309),

Gene: Tigress9_28 Start: 22638, Stop: 23633, Start Num: 119

Candidate Starts for Tigress9_28:

(68, 22548), (Start: 119 @22638 has 47 MA's), (174, 22737), (Start: 177 @22743 has 9 MA's), (257, 22893), (303, 22974), (313, 22998), (419, 23160), (420, 23163), (439, 23247), (459, 23292), (579, 23571), (585, 23592), (591, 23610),

Gene: Tillicus_32 Start: 28456, Stop: 29502, Start Num: 112

Candidate Starts for Tillicus_32:

(Start: 112 @28456 has 35 MA's), (Start: 144 @28513 has 1 MA's), (189, 28603), (192, 28612), (194, 28618), (199, 28627), (230, 28681), (354, 28897), (361, 28906), (377, 28945), (380, 28957), (412, 29026), (445, 29140), (457, 29167), (493, 29275),

Gene: TingHuaYa_28 Start: 22494, Stop: 23501, Start Num: 119

Candidate Starts for TingHuaYa_28:

(Start: 119 @22494 has 47 MA's), (173, 22593), (244, 22713), (252, 22734), (303, 22830), (386, 22938), (419, 23016), (443, 23112), (451, 23124), (468, 23163), (547, 23334), (551, 23346),

Gene: TiniBug_28 Start: 23281, Stop: 24294, Start Num: 117

Candidate Starts for TiniBug_28:

(95, 23236), (Start: 117 @23281 has 228 MA's), (Start: 177 @23392 has 9 MA's), (244, 23506), (303, 23623), (335, 23677), (386, 23731), (419, 23809), (443, 23905), (451, 23917), (468, 23956), (477, 23992), (510, 24061), (551, 24139), (580, 24235),

Gene: Tiri_28 Start: 23328, Stop: 24341, Start Num: 117

Candidate Starts for Tiri_28:

(27, 22884), (95, 23283), (Start: 117 @23328 has 228 MA's), (Start: 177 @23439 has 9 MA's), (244, 23553), (303, 23670), (328, 23712), (335, 23724), (386, 23778), (419, 23856), (438, 23940), (443, 23952), (451, 23964), (468, 24003), (514, 24117), (551, 24186),

Gene: Topper_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Topper_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: Torres_24 Start: 22900, Stop: 23907, Start Num: 119

Candidate Starts for Torres_24:

(94, 22849), (100, 22861), (Start: 119 @22900 has 47 MA's), (152, 22960), (190, 23032), (221, 23086), (236, 23107), (303, 23236), (330, 23281), (331, 23284), (384, 23341), (386, 23344), (408, 23389), (420, 23425), (443, 23521), (451, 23533), (500, 23653), (564, 23785),

Gene: Tortellini_22 Start: 21866, Stop: 22936, Start Num: 117

Candidate Starts for Tortellini_22:

(Start: 117 @21866 has 228 MA's), (247, 22106), (261, 22142), (264, 22151), (267, 22157), (301, 22202), (327, 22247), (336, 22265), (349, 22292), (390, 22373), (420, 22454), (466, 22592), (468, 22595),

Gene: Tortoise12_22 Start: 20223, Stop: 21437, Start Num: 101

Candidate Starts for Tortoise12_22:

(37, 19893), (Start: 59 @20091 has 1 MA's), (Start: 99 @20220 has 6 MA's), (Start: 101 @20223 has 20 MA's), (233, 20484), (315, 20655), (389, 20805), (406, 20844), (436, 20946), (440, 20988), (575, 21360),

Gene: Towmatter_36 Start: 34440, Stop: 35507, Start Num: 128

Candidate Starts for Towmatter_36:

(Start: 128 @34440 has 2 MA's), (309, 34785), (335, 34830), (351, 34860), (458, 35151), (460, 35157), (469, 35175), (483, 35241), (487, 35244), (503, 35262), (523, 35310), (595, 35496),

Gene: TpudiCK_32 Start: 26991, Stop: 28046, Start Num: 117

Candidate Starts for TpudiCK_32:

(Start: 117 @26991 has 228 MA's), (228, 27204), (252, 27240), (295, 27303), (335, 27375), (349, 27405), (362, 27426), (379, 27462), (394, 27498), (412, 27546), (419, 27567), (421, 27573), (424, 27603), (425, 27606), (439, 27654), (528, 27843), (536, 27864), (560, 27918),

Gene: Tracker_44 Start: 34752, Stop: 35810, Start Num: 132

Candidate Starts for Tracker_44:

(3, 33312), (5, 33609), (9, 33840), (22, 34209), (64, 34587), (66, 34602), (71, 34620), (Start: 132 @34752 has 36 MA's), (307, 35097), (335, 35148), (362, 35196),

Gene: TreyKay_28 Start: 23290, Stop: 24303, Start Num: 117

Candidate Starts for TreyKay_28:

(95, 23245), (Start: 117 @23290 has 228 MA's), (Start: 177 @23401 has 9 MA's), (244, 23515), (303, 23632), (328, 23674), (335, 23686), (386, 23740), (419, 23818), (438, 23902), (443, 23914), (451, 23926), (468, 23965), (580, 24244),

Gene: TribbleTrouble_27 Start: 23874, Stop: 24935, Start Num: 119

Candidate Starts for TribbleTrouble_27:

(68, 23769), (Start: 119 @23874 has 47 MA's), (138, 23907), (162, 23946), (188, 23997), (190, 24006), (205, 24033), (236, 24081), (265, 24147), (286, 24183), (295, 24198), (307, 24216), (308, 24219), (313, 24234), (366, 24321), (423, 24492), (551, 24792),

Gene: Trice_24 Start: 22861, Stop: 23907, Start Num: 100

Candidate Starts for Trice_24:

(94, 22849), (100, 22861), (Start: 119 @22900 has 47 MA's), (152, 22960), (190, 23032), (221, 23086), (236, 23107), (303, 23236), (330, 23281), (331, 23284), (384, 23341), (386, 23344), (408, 23389), (420, 23425), (443, 23521), (451, 23533), (500, 23653), (564, 23785),

Gene: TruffulaTree_28 Start: 23319, Stop: 24332, Start Num: 117

Candidate Starts for TruffulaTree_28:

(27, 22875), (95, 23274), (Start: 117 @23319 has 228 MA's), (244, 23544), (303, 23661), (328, 23703), (335, 23715), (386, 23769), (419, 23847), (443, 23943), (451, 23955), (462, 23985), (468, 23994), (514, 24108), (551, 24177),

Gene: Twitch_28 Start: 23356, Stop: 24369, Start Num: 117

Candidate Starts for Twitch_28:

(27, 22912), (95, 23311), (Start: 117 @23356 has 228 MA's), (244, 23581), (303, 23698), (328, 23740), (335, 23752), (386, 23806), (419, 23884), (443, 23980), (462, 24022), (468, 24031), (514, 24145), (551, 24214),

Gene: TyDawg_31 Start: 26992, Stop: 28047, Start Num: 117

Candidate Starts for TyDawg_31:

(Start: 117 @26992 has 228 MA's), (228, 27205), (252, 27241), (295, 27304), (335, 27376), (349, 27406), (362, 27427), (379, 27463), (394, 27499), (412, 27547), (419, 27568), (421, 27574), (424, 27604), (425, 27607), (439, 27655), (528, 27844), (536, 27865), (560, 27919),

Gene: Ubuntu_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Ubuntu_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: Unicorn_28 Start: 22720, Stop: 23781, Start Num: 119

Candidate Starts for Unicorn_28:

(68, 22630), (85, 22687), (Start: 119 @22720 has 47 MA's), (174, 22819), (236, 22927), (244, 22939), (252, 22960), (303, 23056), (368, 23170), (384, 23221), (423, 23338), (520, 23581), (530, 23599), (551, 23638),

Gene: Urkel_28 Start: 23284, Stop: 24297, Start Num: 117

Candidate Starts for Urkel_28:

(95, 23239), (Start: 117 @23284 has 228 MA's), (Start: 177 @23395 has 9 MA's), (244, 23509), (303, 23626), (328, 23668), (335, 23680), (386, 23734), (419, 23812), (443, 23908), (451, 23920), (468, 23959), (477, 23995), (551, 24142), (580, 24238),

Gene: Validus_28 Start: 22666, Stop: 23631, Start Num: 117

Candidate Starts for Validus_28:

(98, 22630), (Start: 117 @22666 has 228 MA's), (121, 22672), (Start: 177 @22780 has 9 MA's), (190, 22807), (221, 22861), (260, 22936), (311, 23029), (343, 23083), (419, 23197), (420, 23200), (440, 23284), (468, 23341), (488, 23395), (519, 23437), (544, 23476),

Gene: Veliki_28 Start: 23359, Stop: 24372, Start Num: 117

Candidate Starts for Veliki_28:

(27, 22915), (43, 23062), (95, 23314), (Start: 117 @23359 has 228 MA's), (Start: 177 @23470 has 9 MA's), (244, 23584), (303, 23701), (328, 23743), (335, 23755), (386, 23809), (419, 23887), (443, 23983), (451, 23995), (462, 24025), (468, 24034), (514, 24148), (551, 24217),

Gene: Venti_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for Venti_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412, 21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: Vidya_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for Vidya_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412, 21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: ViviJ_26 Start: 23840, Stop: 24904, Start Num: 117

Candidate Starts for ViviJ_26:

(Start: 117 @23840 has 228 MA's), (163, 23930), (174, 23957), (206, 24020), (237, 24068), (258, 24107), (266, 24125), (301, 24170), (323, 24209), (349, 24257), (361, 24275), (394, 24350), (420, 24416), (440, 24506), (441, 24509), (443, 24512), (458, 24545), (493, 24644), (496, 24647), (538, 24731), (543, 24743), (584, 24860),

Gene: Vordorf_31 Start: 26927, Stop: 27976, Start Num: 115

Candidate Starts for Vordorf_31:

(Start: 115 @26927 has 6 MA's), (195, 27092), (221, 27137), (260, 27215), (333, 27329), (367, 27392), (386, 27443), (401, 27473), (412, 27500), (512, 27776),

Gene: WST1_22 Start: 19043, Stop: 20098, Start Num: 117

Candidate Starts for WST1_22:

(Start: 117 @19043 has 228 MA's), (174, 19160), (267, 19334), (343, 19451), (346, 19457), (420, 19622), (443, 19715), (466, 19763), (476, 19799), (526, 19892),

Gene: Waterfoul_27 Start: 23954, Stop: 25021, Start Num: 117

Candidate Starts for Waterfoul_27:

(Start: 117 @23954 has 228 MA's), (174, 24071), (232, 24176), (237, 24182), (267, 24242), (277, 24257), (301, 24284), (323, 24323), (327, 24326), (333, 24338), (335, 24341), (336, 24344), (343, 24359), (371, 24404), (373, 24410), (394, 24464), (412, 24512), (422, 24542), (433, 24587), (475, 24716), (501, 24770),

Gene: Webster2_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Webster2_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: WheatThin_27 Start: 23315, Stop: 24382, Start Num: 120

Candidate Starts for WheatThin_27:

(Start: 120 @23315 has 14 MA's), (229, 23525), (333, 23693), (402, 23834), (408, 23849), (412, 23861), (420, 23885), (438, 23969), (493, 24116),

Gene: Wheezy_44 Start: 34957, Stop: 36015, Start Num: 132

Candidate Starts for Wheezy_44:

(3, 33517), (5, 33814), (9, 34045), (22, 34414), (64, 34792), (66, 34807), (71, 34825), (Start: 132 @34957 has 36 MA's), (307, 35302), (335, 35353), (362, 35401),

Gene: WhoseManz_46 Start: 32658, Stop: 33761, Start Num: 132

Candidate Starts for WhoseManz_46:

(Start: 132 @32658 has 36 MA's), (148, 32691), (192, 32787), (285, 32970), (387, 33177), (393, 33186), (419, 33255), (420, 33258), (438, 33342), (463, 33393), (503, 33495), (540, 33579), (545, 33588), (547, 33591),

Gene: Willsammy_22 Start: 21571, Stop: 22605, Start Num: 117

Candidate Starts for Willsammy_22:

(Start: 117 @21571 has 228 MA's), (192, 21727), (198, 21733), (260, 21841), (261, 21844), (267, 21859), (327, 21946), (349, 21991), (390, 22072), (412, 22129), (420, 22153), (451, 22258), (475, 22330), (502, 22375),

Gene: Wintermute_29 Start: 24585, Stop: 25589, Start Num: 117

Candidate Starts for Wintermute_29:

(Start: 117 @24585 has 228 MA's), (Start: 156 @24654 has 1 MA's), (209, 24753), (240, 24798), (265, 24858), (271, 24867), (294, 24903), (313, 24948), (330, 24969), (333, 24975), (335, 24978), (419, 25110), (420, 25113), (457, 25236), (468, 25257), (576, 25524),

Gene: Wishmaker_27 Start: 23371, Stop: 24609, Start Num: 58

Candidate Starts for Wishmaker_27:

(10, 22759), (11, 22825), (15, 22915), (16, 22918), (25, 23068), (33, 23155), (34, 23158), (47, 23296), (Start: 58 @23371 has 22 MA's), (81, 23467), (96, 23494), (98, 23500), (Start: 119 @23539 has 47 MA's), (124, 23548), (Start: 146 @23593 has 1 MA's), (150, 23605), (172, 23644), (200, 23701), (236, 23752), (245, 23767), (260, 23806), (282, 23839), (294, 23860), (297, 23866), (315, 23902), (325, 23914), (328, 23917), (353, 23965), (357, 23971), (359, 23974), (364, 23983), (419, 24121), (443, 24214), (470, 24271), (471, 24277), (496, 24361), (508, 24376), (509, 24379), (547, 24445), (558, 24478),

Gene: Woes_30 Start: 38617, Stop: 39519, Start Num: 201

Candidate Starts for Woes_30:

(Start: 201 @38617 has 28 MA's), (273, 38755), (311, 38824), (340, 38872), (375, 38935), (387, 38971), (557, 39391), (591, 39496),

Gene: Wojtek_32 Start: 28749, Stop: 29798, Start Num: 112

Candidate Starts for Wojtek_32:

(Start: 112 @28749 has 35 MA's), (174, 28863), (192, 28905), (221, 28959), (230, 28974), (260, 29037), (386, 29262), (445, 29433), (551, 29661), (564, 29706),

Gene: Xavia_22 Start: 21888, Stop: 22955, Start Num: 117

Candidate Starts for Xavia_22:

(Start: 117 @21888 has 228 MA's), (198, 22050), (222, 22092), (261, 22161), (301, 22221), (327, 22266), (336, 22284), (349, 22311), (390, 22392), (412, 22449), (420, 22473), (474, 22644),

Gene: Xeno_21 Start: 20200, Stop: 21240, Start Num: 117

Candidate Starts for Xeno_21:

(Start: 117 @20200 has 228 MA's), (198, 20365), (222, 20407), (261, 20476), (301, 20536), (327, 20581), (349, 20626), (390, 20707), (412, 20764), (420, 20788), (451, 20893), (475, 20965), (502, 21010),

Gene: Xerxes_22 Start: 20220, Stop: 21434, Start Num: 101

Candidate Starts for Xerxes_22:

(37, 19890), (Start: 59 @20088 has 1 MA's), (Start: 99 @20217 has 6 MA's), (Start: 101 @20220 has 20 MA's), (233, 20481), (315, 20652), (389, 20802), (406, 20841), (436, 20943), (440, 20985), (575, 21357),

Gene: Ximenita_29 Start: 22823, Stop: 23818, Start Num: 119

Candidate Starts for Ximenita_29:

(68, 22733), (Start: 119 @22823 has 47 MA's), (174, 22922), (Start: 177 @22928 has 9 MA's), (257, 23078), (303, 23159), (419, 23345), (420, 23348), (439, 23432), (531, 23627), (579, 23756), (585, 23777), (591, 23795),

Gene: Y10_29 Start: 24585, Stop: 25589, Start Num: 117

Candidate Starts for Y10_29:

(Start: 117 @24585 has 228 MA's), (Start: 156 @24654 has 1 MA's), (209, 24753), (240, 24798), (244, 24804), (265, 24858), (271, 24867), (294, 24903), (313, 24948), (330, 24969), (333, 24975), (335, 24978), (419, 25110), (420, 25113), (457, 25236), (468, 25257), (576, 25524),

Gene: Y2_29 Start: 24585, Stop: 25589, Start Num: 117

Candidate Starts for Y2_29:

(Start: 117 @24585 has 228 MA's), (Start: 156 @24654 has 1 MA's), (209, 24753), (240, 24798), (244, 24804), (265, 24858), (271, 24867), (294, 24903), (313, 24948), (330, 24969), (333, 24975), (335, 24978), (419, 25110), (420, 25113), (457, 25236), (468, 25257), (576, 25524),

Gene: YasnayaPolyana_29 Start: 24655, Stop: 25590, Start Num: 156

Candidate Starts for YasnayaPolyana_29:

(Start: 117 @24586 has 228 MA's), (Start: 156 @24655 has 1 MA's), (209, 24754), (240, 24799), (265, 24859), (271, 24868), (294, 24904), (313, 24949), (330, 24970), (333, 24976), (335, 24979), (419, 25111), (420, 25114), (457, 25237), (468, 25258), (576, 25525),

Gene: Yikes_34 Start: 30133, Stop: 31182, Start Num: 112

Candidate Starts for Yikes_34:

(Start: 112 @30133 has 35 MA's), (174, 30247), (192, 30289), (221, 30343), (230, 30358), (260, 30421), (445, 30817), (493, 30952), (551, 31045),

Gene: Yndexa_46 Start: 34612, Stop: 35703, Start Num: 132

Candidate Starts for Yndexa_46:

(Start: 132 @34612 has 36 MA's), (148, 34645), (192, 34741), (285, 34924), (319, 34993), (387, 35131), (394, 35143), (395, 35146),

Gene: YoureAdopted_27 Start: 23292, Stop: 24305, Start Num: 117

Candidate Starts for YoureAdopted_27:

(27, 22848), (43, 22995), (95, 23247), (Start: 117 @23292 has 228 MA's), (Start: 177 @23403 has 9 MA's), (244, 23517), (303, 23634), (328, 23676), (335, 23688), (386, 23742), (419, 23820), (443, 23916), (451, 23928), (462, 23958), (468, 23967), (475, 24000), (514, 24081), (551, 24150),

Gene: Yuna_29 Start: 23206, Stop: 24168, Start Num: 117

Candidate Starts for Yuna_29:

(Start: 117 @23206 has 228 MA's), (262, 23476), (266, 23485), (284, 23518), (291, 23530), (297, 23539), (311, 23566), (402, 23689), (420, 23740), (437, 23809), (445, 23830), (507, 23950),

Gene: Yunkel11_28 Start: 22542, Stop: 23603, Start Num: 117

Candidate Starts for Yunkel11_28:

(Start: 117 @22542 has 228 MA's), (Start: 177 @22656 has 9 MA's), (244, 22770), (252, 22791), (297, 22878), (309, 22899), (311, 22905), (398, 23013), (419, 23073), (447, 23193), (449, 23199), (450, 23205), (475, 23295), (535, 23421), (545, 23436),

Gene: Zabiza_28 Start: 23323, Stop: 24336, Start Num: 117

Candidate Starts for Zabiza_28:

(27, 22879), (43, 23026), (95, 23278), (Start: 117 @23323 has 228 MA's), (Start: 177 @23434 has 9 MA's), (244, 23548), (303, 23665), (328, 23707), (335, 23719), (386, 23773), (419, 23851), (443,

23947), (451, 23959), (462, 23989), (468, 23998), (514, 24112), (551, 24181),

Gene: Zany_32 Start: 29660, Stop: 30706, Start Num: 112

Candidate Starts for Zany_32:

(Start: 112 @29660 has 35 MA's), (174, 29774), (183, 29795), (221, 29870), (230, 29885), (260, 29948), (302, 30008), (361, 30110), (445, 30344),

Gene: Zavala_28 Start: 23298, Stop: 24311, Start Num: 117

Candidate Starts for Zavala_28:

(27, 22854), (95, 23253), (Start: 117 @23298 has 228 MA's), (244, 23523), (303, 23640), (328, 23682), (335, 23694), (386, 23748), (419, 23826), (443, 23922), (451, 23934), (462, 23964), (468, 23973), (514, 24087), (551, 24156),

Gene: Zenteno07_35 Start: 31167, Stop: 32306, Start Num: 72

Candidate Starts for Zenteno07_35:

(41, 30954), (Start: 72 @31167 has 1 MA's), (87, 31209), (Start: 112 @31257 has 35 MA's), (126, 31287), (142, 31308), (170, 31368), (190, 31416), (192, 31419), (195, 31425), (209, 31452), (225, 31476), (231, 31485), (257, 31536), (319, 31656), (333, 31674), (421, 31860), (431, 31905), (460, 31989), (468, 32001), (477, 32040), (513, 32118),

Gene: Zilizebeth_22 Start: 21299, Stop: 22336, Start Num: 117

Candidate Starts for Zilizebeth_22:

(106, 21275), (Start: 114 @21296 has 5 MA's), (Start: 117 @21299 has 228 MA's), (129, 21323), (198, 21461), (222, 21503), (261, 21572), (301, 21632), (327, 21677), (349, 21722), (390, 21803), (412, 21860), (420, 21884), (451, 21989), (475, 22061), (502, 22106), (578, 22271),

Gene: Zodiariah_22 Start: 21904, Stop: 22950, Start Num: 113

Candidate Starts for Zodiariah_22:

(Start: 113 @21904 has 4 MA's), (170, 22009), (221, 22114), (319, 22288), (324, 22291), (412, 22474), (465, 22630), (482, 22702), (512, 22750), (514, 22753), (532, 22786),

Gene: ZoeJ_25 Start: 21223, Stop: 22245, Start Num: 119

Candidate Starts for ZoeJ_25:

(51, 21040), (68, 21139), (Start: 119 @21223 has 47 MA's), (174, 21325), (Start: 201 @21379 has 28 MA's), (205, 21385), (240, 21439), (244, 21445), (245, 21448), (282, 21526), (293, 21547), (295, 21550), (328, 21604), (421, 21754), (587, 22213), (591, 22222),