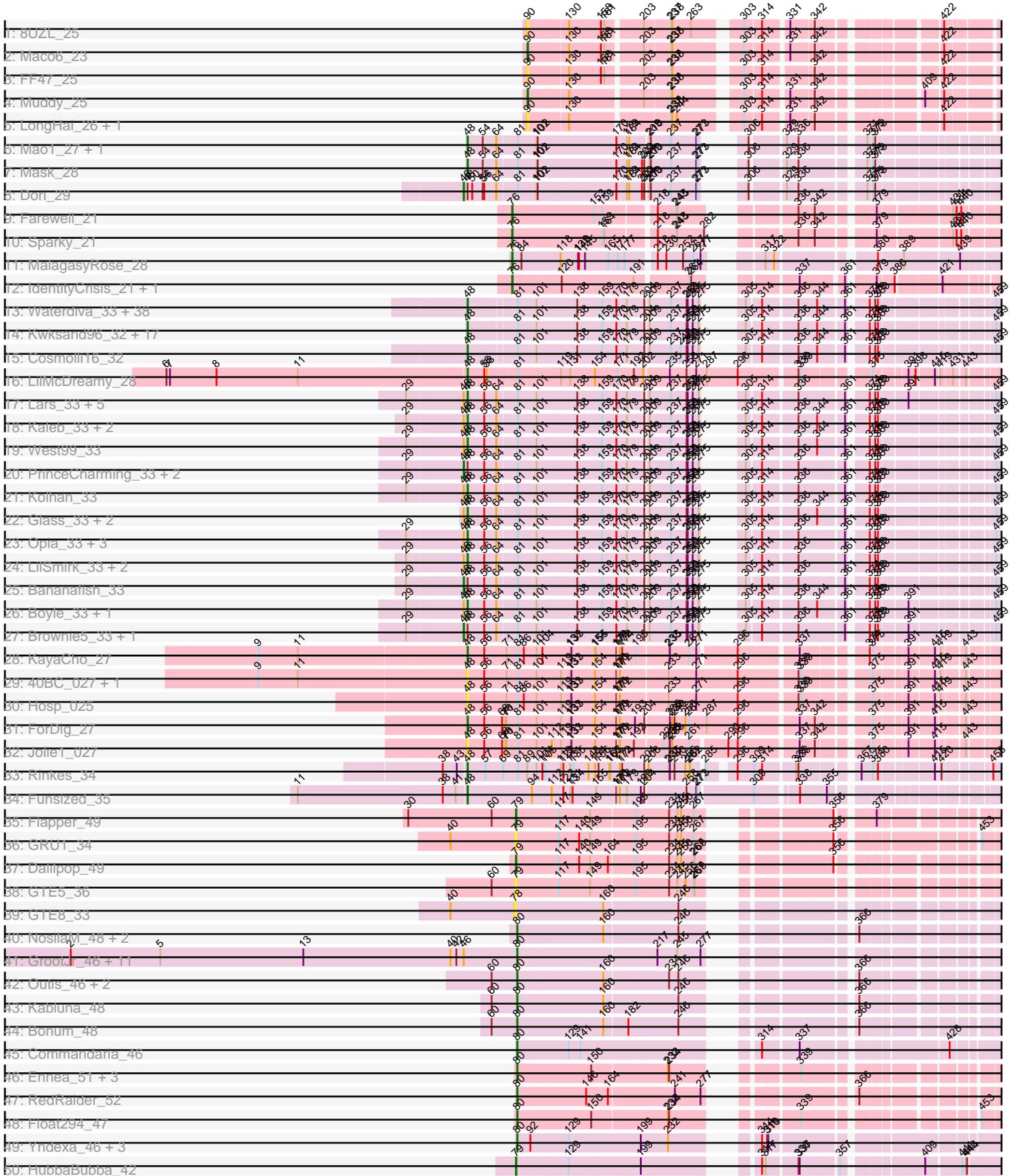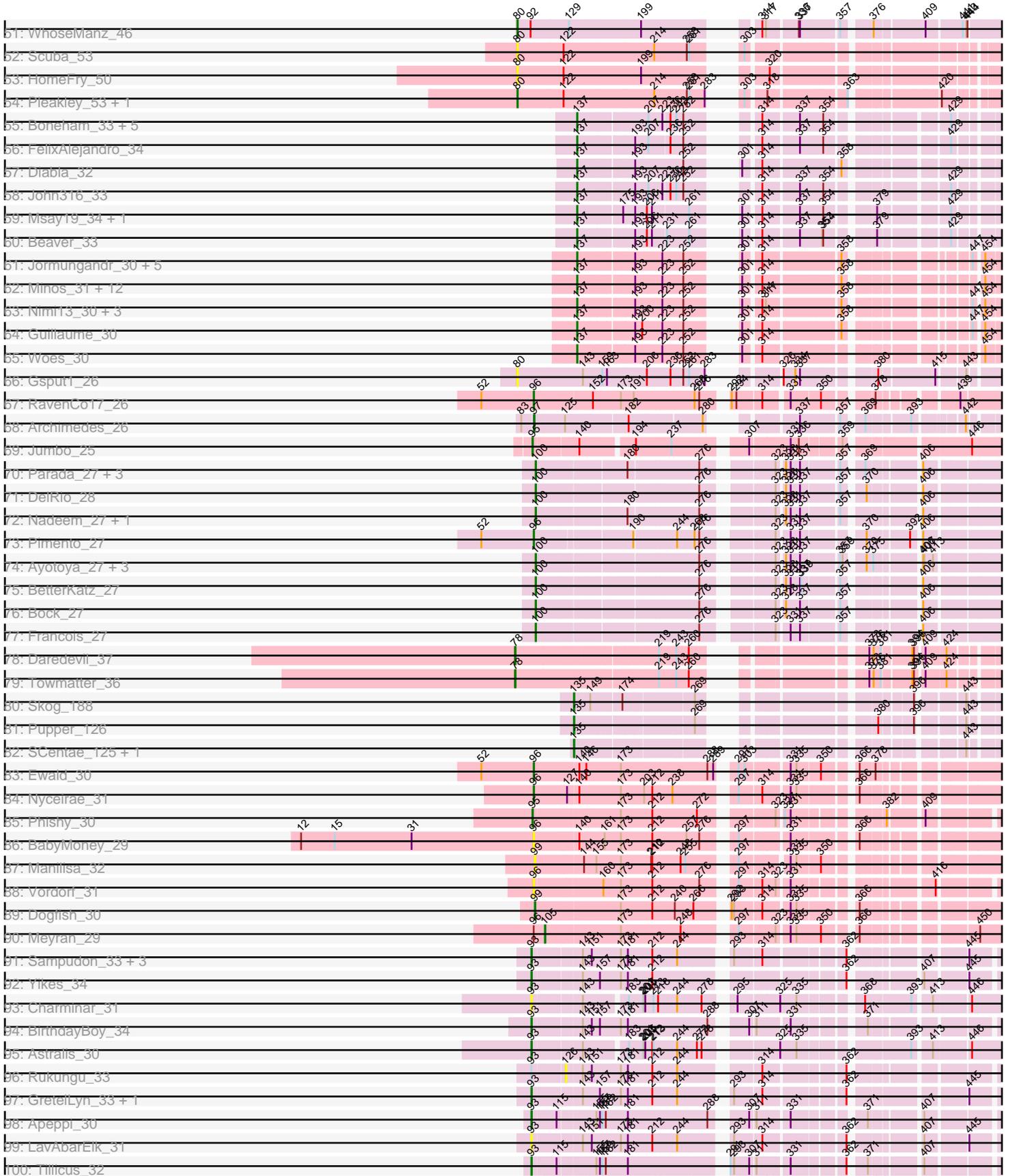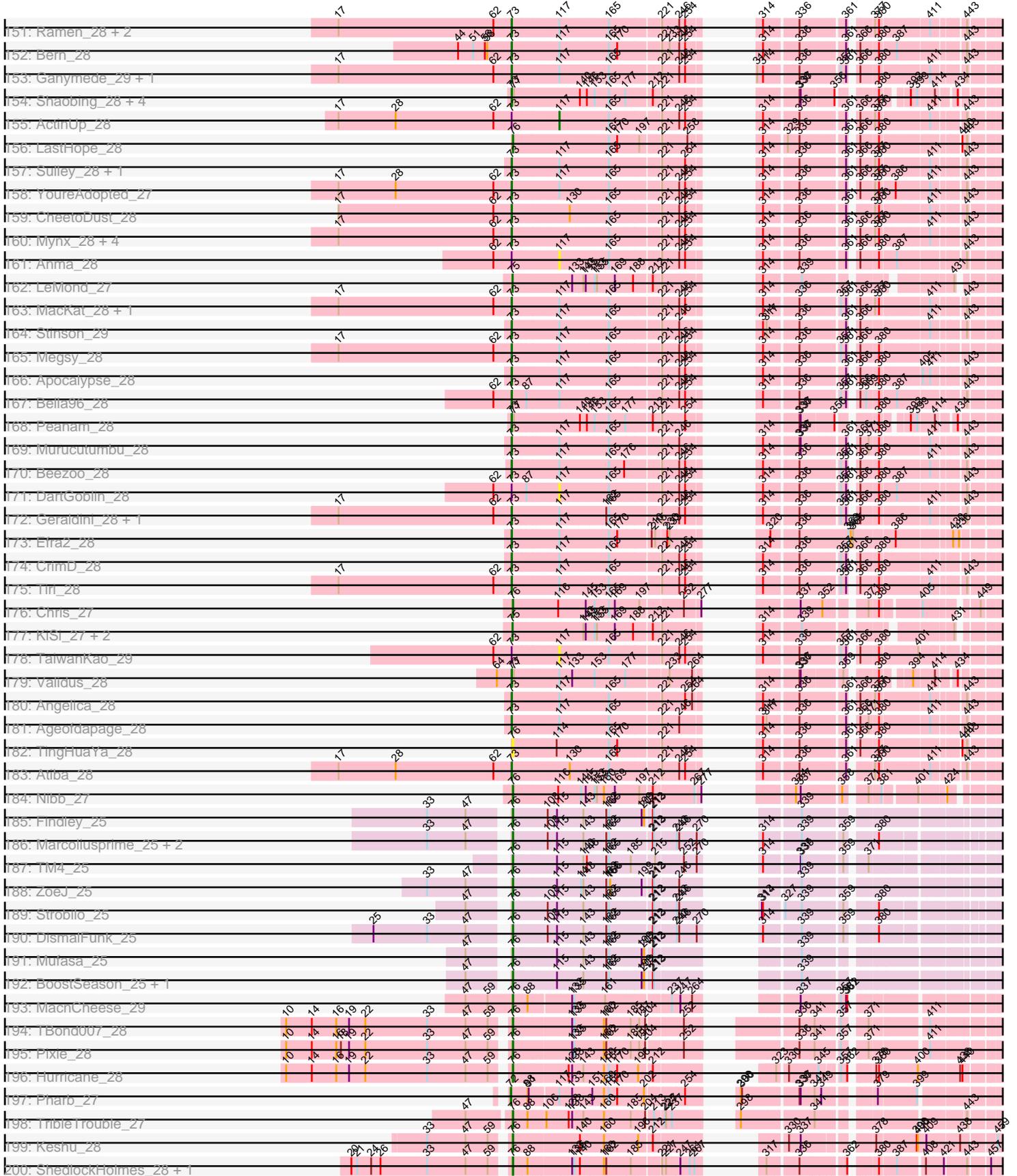Zoomed Pham 283353

Zoomed Pham 283353

Zoomed Pham 283353
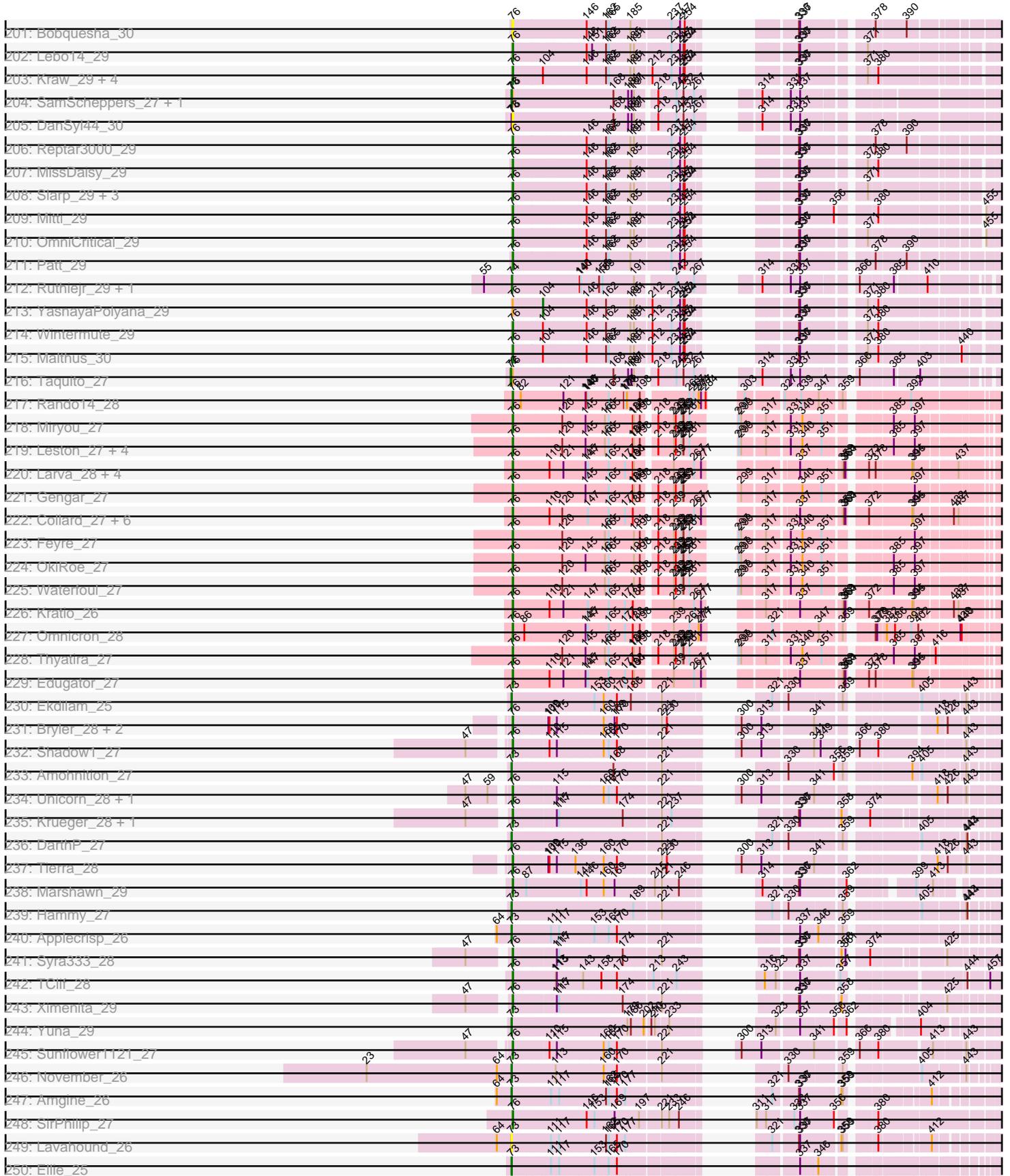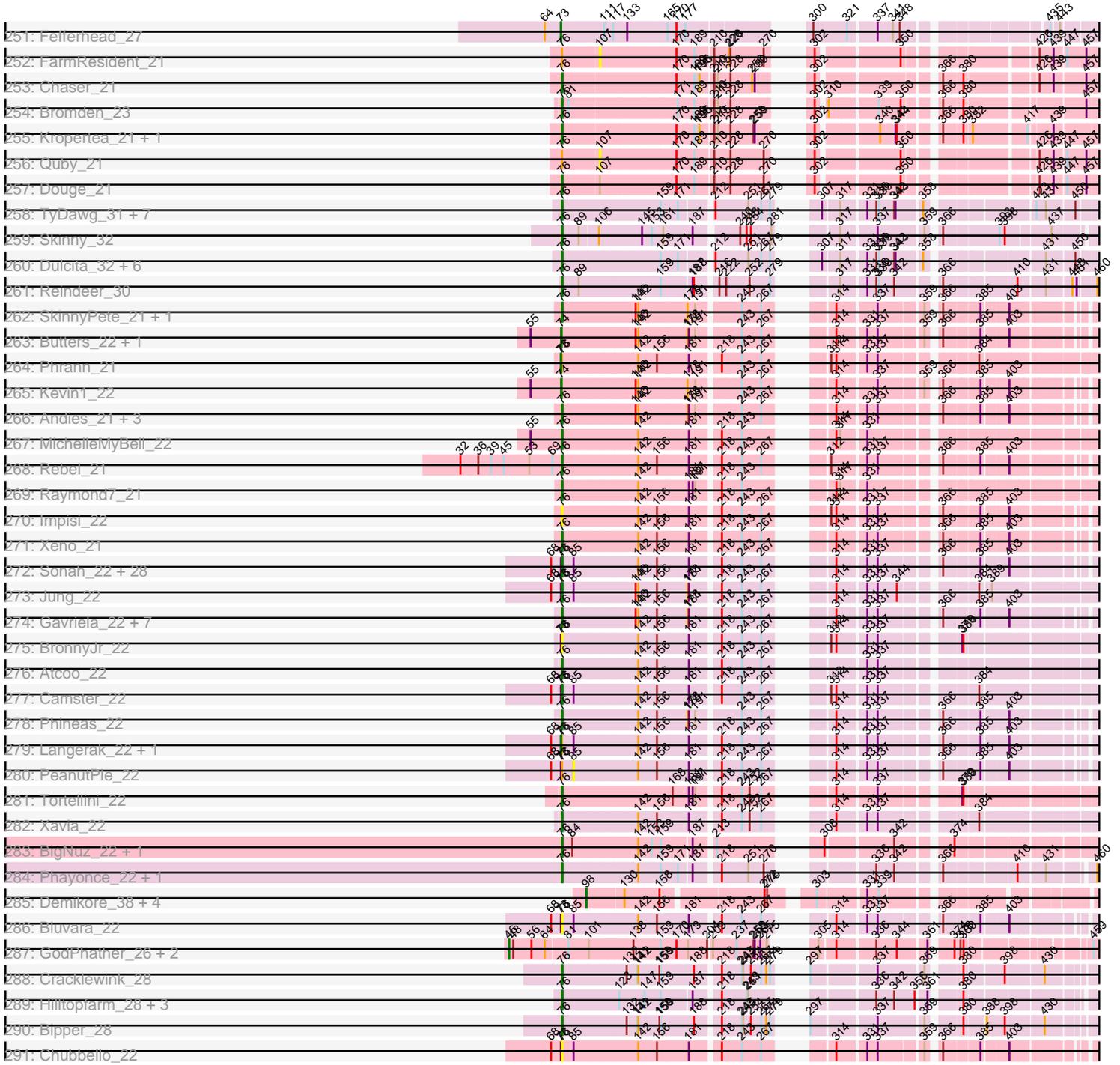
Zoomed Pham 283353

Zoomed Pham 283353

Zoomed Pham 283353

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 283353 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283353 has 599 members, 75 are drafts.

Phages represented in each track:
• Track 1 : 8UZL_25
• Track 2 : Maco6_23
• Track 3 : FF47_25
• Track 4 : Muddy_25
• Track 5 : LongHai_26, Salvus_26
• Track 6 : Mao1_27, Sejanus_28
• Track 7 : Mask_28
• Track 8 : Dori_29
• Track 9 : Farewell_21
• Track 10 : Sparky_21
• Track 11 : MalagasyRose_28
• Track 12 : IdentityCrisis_21, WST1_22
• Track 13 : Waterdiva_33, Freya_32, Childish_32, Scoot17C_33, Mesh1_33, AltPhacts_33, Craff_33, HogWash_32, GeneCoco_33, Badfish_33, Longacauda_32, Phareon_33, Kahve_32, Adriana_33, Eugenia_33, Nathan_33, HighStump_32, Boehler_33, Katniss_33, PhatCats2014_33, PG1_33, Piglet_0032, HenryJackson_32, Pinkman_32, ThreeOh3D2_33, Vista_33, Serendipity_33, Orion_33, Jillium_32, Solosis_32, Kikipoo_33, Derpp_32, TyrionL_32, Zonia_33, Pipsqueak_33, Fang_33, Labeouficaum_32, Wallhey_32, Chipette_34
• Track 14 : Kwksand96_32, Durga_33, ElvisPhasley_33, MelsMeow_32, Ashraf_32, Emiris_33, Cobra_33, JDog_32, Pops_33, Cornbread_32, Trypo_33, ImtiyazSitla_32, Khan1_33, CharlieGBrown_32, Chuni_32, Rimu_33, MrPhizzler_33, Maskar_32
• Track 15 : Cosmolli16_32
• Track 16 : LilMcDreamy_28
• Track 17 : Lars_33, Rosebush_33, Arbiter_33, Hedgerow_33, Allegro_33, FrenchFry_33
• Track 18 : Kaleb_33, Eaglehorse_33, LizLemon_33
• Track 19 : West99_33
• Track 20 : PrinceCharming_33, Blocker23_33, Lephleur_33
• Track 21 : Kolhan_33
• Track 22 : Glass_33, Phantasmagoria_33, Faze9_33
• Track 23 : Opia_33, Coffee_33, Holeinone_33, Tres_33
• Track 24 : LilSmirk_33, ItsyBitsy1_33, Calamitous_33
• Track 25 : Bananafish_33
• Track 26 : Boyle_33, Rhinoforte_33
• Track 27 : Brownie5_33, Tinciduntsolum_34
• Track 28 : KayaCho_27

- Track 29 : 40BC_027, 39HC_027
- Track 30 : Hosp_025
- Track 31 : ForDig_27
- Track 32 : Jolie1_027
- Track 33 : Rinkes_34
- Track 34 : Funsized_35
- Track 35 : Flapper_49
- Track 36 : GRU1_34
- Track 37 : Dalilpop_49
- Track 38 : GTE5_36
- Track 39 : GTE8_33
- Track 40 : NosilaM_48, Buggaboo_46, SuperSulley_46
- Track 41 : 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 42 : Outis_46, StarStruck_46, MerCougar_46
- Track 43 : Kabluna_48
- Track 44 : Bonum_48
- Track 45 : Commandaria_46
- Track 46 : Ennea_51, Patio_48, Skysand_47, Lollipop1437_50
- Track 47 : RedRaider_52
- Track 48 : Float294_47
- Track 49 : Yndexa_46, BiPauneto_47, Sukkupi_46, Pemberton_48
- Track 50 : HubbaBubba_42
- Track 51 : WhoseManz_46
- Track 52 : Scuba_53
- Track 53 : HomeFry_50
- Track 54 : Pleakley_53, Fury_53
- Track 55 : Boneham_33, CinnamonToast_34, Butterball_33, BirksAndSocks_33, Jellybones_33, BillyBobJr_34
- Track 56 : FelixAlejandro_34
- Track 57 : Diabla_32
- Track 58 : John316_33
- Track 59 : Msay19_34, Poland_34
- Track 60 : Beaver_33
- Track 61 : Jormungandr_30, Damp_30, Luker_31, Harambe_30, Lahirium_30, Sticker17_30
- Track 62 : Minos_31, Hello_30, Bianmat_30, GalacticEye_30, Lidong_30, Kaseim_30, Newt_31, Charianelly_30, Teal_30, Shelley_30, Jams_30, Berries_30, MrWormie_30
- Track 63 : Nimi13_30, Neoevie_30, Hail2Pitt_30, Anamika_30
- Track 64 : Guillaume_30
- Track 65 : Woes_30
- Track 66 : Gsput1_26
- Track 67 : RavenCo17_26
- Track 68 : Archimedes_26
- Track 69 : Jumbo_25
- Track 70 : Parada_27, Mulch_27, Brylie_27, NancyRae_27
- Track 71 : DelRio_28
- Track 72 : Nadeem_27, WheatThin_27
- Track 73 : Pimento_27
- Track 74 : Ayotoya_27, Hamood_27, Chop_27, GrandSlam_27
- Track 75 : BetterKatz_27

- Track 76 : Bock_27
- Track 77 : Francois_27
- Track 78 : Daredevil_37
- Track 79 : Towmatter_36
- Track 80 : Skog_188
- Track 81 : Pupper_126
- Track 82 : SCentae_125, CherryTomatoes_125
- Track 83 : Ewald_30
- Track 84 : Nyceirae_31
- Track 85 : Phishy_30
- Track 86 : BabyMoney_29
- Track 87 : Manilisa_32
- Track 88 : Vordorf_31
- Track 89 : Dogfish_30
- Track 90 : Meyran_29
- Track 91 : Sampudon_33, Jalebi_32, GOATification_34, Fulcrum_34
- Track 92 : Yikes_34
- Track 93 : Charminar_31
- Track 94 : BirthdayBoy_34
- Track 95 : Astralis_30
- Track 96 : Rukungu_33
- Track 97 : GretelLyn_33, OtterstedtS21_33
- Track 98 : Apeppi_30
- Track 99 : LavAbarElk_31
- Track 100 : Tillicus_32
- Track 101 : Mima20_31
- Track 102 : ParvusTarda_33
- Track 103 : MoiGyank_35
- Track 104 : Rumi_32
- Track 105 : Gibbin_34
- Track 106 : Jamemuya19_30, Alyssamiracle_33, RazorC_31, NovaSharks_32
- Track 107 : Patos_34, NorManre_34
- Track 108 : Erutan_33
- Track 109 : LuckyLeo_32
- Track 110 : DoobyDoo_32
- Track 111 : Rota_32
- Track 112 : DaviePasture_33
- Track 113 : Ranch_33
- Track 114 : Zany_32
- Track 115 : Wojtek_32
- Track 116 : Lambo_33
- Track 117 : Avian_30, Stormer_32
- Track 118 : Alephilan_30
- Track 119 : Lila22_32
- Track 120 : Genamy16_33
- Track 121 : Zodiariah_22
- Track 122 : DumpsterDude_23
- Track 123 : Sprinklemunch_22
- Track 124 : MakCheese_24
- Track 125 : LordVader_21
- Track 126 : Jolie2_23
- Track 127 : Stargaze_23
- Track 128 : YangYin_23

- Track 129 : DrLupo_39
- Track 130 : Barnyard_37
- Track 131 : Che9c_21, Purky_22
- Track 132 : Sbash_21
- Track 133 : Mdavu_24, Enkosi_24, Amelie_24, Nikao_24, LilPharaoh_24, Biglebops_24, Torres_24, SgtBeansprout_24, Nutello_24
- Track 134 : Durfee_28, Pokerus_27, Boiiii_28, Hyperbowlee_28, Padfoot_28, Asayake_28, AlishaPH_28, CaseJules_28, BaghaKamala_28, Piatt_28, BEEST_28, Blizzard_28, Homura_28, ShiaSurprise_28
- Track 135 : Teejan_24, Trice_24
- Track 136 : Chavito_28
- Track 137 : Joy99_28, Dalmuri_28, Inky_28, Jeckyll_28, BGlluviae_28, CallaLilly_28, Belladonna_28, Jarvi_28, Peel_28, Llorens_28, Capricorn_28, Rosmarinus_28, Spock_28, Twitch_28, Topper_28, CREW_28, Lunahalos_28
- Track 138 : DrHayes_28, Urkel_28, SamuelLPlaqson_28
- Track 139 : MarkPhew_28
- Track 140 : Adonis_28
- Track 141 : TiniBug_28
- Track 142 : HedwigODU_28, Veliki_28, Zabiza_28, Rapunzel97_28, Jayhawk_28, Slimphazie_28, Adephagia_28
- Track 143 : TreyKay_28, Prithvi_28, LindNT_28
- Track 144 : Anaya_29
- Track 145 : Illumine_28, Devera_28, Dole_28
- Track 146 : Pisa4_27, Pisa1_27
- Track 147 : Guanica15_28, Yunkel11_28
- Track 148 : Curiosium_29
- Track 149 : Tachez_28
- Track 150 : LaterM_28
- Track 151 : Ramen_28, BarrelRoll_28, JAWS_28
- Track 152 : Bern_28
- Track 153 : Ganymede_29, QuincyRose_27
- Track 154 : Shaobing_28, Dartin_28, McMater_28, Richo_28, Niklas_28
- Track 155 : ActinUp_28
- Track 156 : LastHope_28
- Track 157 : Sulley_28, Deby_28
- Track 158 : YoureAdopted_27
- Track 159 : CheetoDust_28
- Track 160 : Mynx_28, Zavala_28, Emerson_28, TruffulaTree_28, Padpat_28
- Track 161 : Anma_28
- Track 162 : LeMond_27
- Track 163 : MacKat_28, Clipper_28
- Track 164 : Stinson_29
- Track 165 : Megsy_28
- Track 166 : Apocalypse_28
- Track 167 : Bella96_28
- Track 168 : Peanam_28
- Track 169 : Murucutumbu_28
- Track 170 : Beezoo_28
- Track 171 : DartGoblin_28
- Track 172 : Geraldini_28, MeaningOfLife_28
- Track 173 : Efra2_28
- Track 174 : CrimD_28
- Track 175 : Tiri_28

- Track 176 : Chris_27
- Track 177 : KiSi_27, Oscar_27, Scarlett_27
- Track 178 : TaiwanKao_29
- Track 179 : Validus_28
- Track 180 : Angelica_28
- Track 181 : Ageofdapage_28
- Track 182 : TingHuaYa_28
- Track 183 : Atiba_28
- Track 184 : Nibb_27
- Track 185 : Findley_25
- Track 186 : Marcoliusprime_25, Milly_25, DismalStressor_25
- Track 187 : TM4_25
- Track 188 : ZoeJ_25
- Track 189 : Strobilo_25
- Track 190 : DismalFunk_25
- Track 191 : Mufasa_25
- Track 192 : BoostSeason_25, Doughnut_25
- Track 193 : MacnCheese_29
- Track 194 : TBond007_28
- Track 195 : Pixie_28
- Track 196 : Hurricane_28
- Track 197 : Pharb_27
- Track 198 : TribleTrouble_27
- Track 199 : Keshu_28
- Track 200 : ShedlockHolmes_28, Lea83_28
- Track 201 : Bobquesha_30
- Track 202 : Lebo14_29
- Track 203 : Kraw_29, Fionnbharth_29, Y10_29, JF1_29, Y2_29
- Track 204 : SamScheppers_27, Eponine_29
- Track 205 : DanSyl44_30
- Track 206 : Reptar3000_29
- Track 207 : MissDaisy_29
- Track 208 : Slarp_29, Cheetobro_29, Chancellor_29, Qhanda_30
- Track 209 : Mitti_29
- Track 210 : OmniCritical_29
- Track 211 : Patt_29
- Track 212 : Ruthiejr_29, Juliette_30
- Track 213 : YasnayaPolyana_29
- Track 214 : Wintermute_29
- Track 215 : Malthus_30
- Track 216 : Taquito_27
- Track 217 : Rando14_28
- Track 218 : Miryou_27
- Track 219 : Leston_27, Heftyboy_27, Paola_27, Guillsminger_27, SoSeph_27
- Track 220 : Larva_28, Dadosky_28, Neighly_28, Psycho_28, AlleyCat_28
- Track 221 : Gengar_27
- Track 222 : Collard_27, BananenDer11_27, ViviJ_26, Agent47_27, LilDirt_26, DoubleChamp_27, InvictusManeo_27
- Track 223 : Feyre_27
- Track 224 : OkiRoe_27
- Track 225 : Waterfoul_27
- Track 226 : Kratio_26
- Track 227 : Omnicron_28

- Track 228 : Thyatira_27
- Track 229 : Edugator_27
- Track 230 : Ekdilam_25
- Track 231 : Bryler_28, Phrank_28, Cain_28
- Track 232 : Shadow1_27
- Track 233 : Amohnition_27
- Track 234 : Unicorn_28, PhelpsODU_28
- Track 235 : Krueger_28, Tigress9_29
- Track 236 : DarthP_27
- Track 237 : Tierra_28
- Track 238 : Marshawn_29
- Track 239 : Hammy_27
- Track 240 : Applecrisp_26
- Track 241 : Syra333_28
- Track 242 : TClif_28
- Track 243 : Ximenita_29
- Track 244 : Yuna_29
- Track 245 : Sunflower1121_27
- Track 246 : November_26
- Track 247 : Amgine_26
- Track 248 : SirPhilip_27
- Track 249 : Lavahound_26
- Track 250 : Ellie_25
- Track 251 : Fefferhead_27
- Track 252 : FarmResident_21
- Track 253 : Chaser_21
- Track 254 : Bromden_23
- Track 255 : Kropertea_21, DyoEdafos_22
- Track 256 : Quby_21
- Track 257 : Douge_21
- Track 258 : TyDawg_31, FreakyGoo_32, Bongo_31, LilhomieP_30, TpudiCK_32, Bricole_31, IPhane7_31, PegLeg_31
- Track 259 : Skinny_32
- Track 260 : Dulcita_32, Izel_32, Auspice_31, SlimJimmy_30, Diminimus_32, Glaske16_32, KleverKiS_31
- Track 261 : Reindeer_30
- Track 262 : SkinnyPete_21, Panchino_21
- Track 263 : Butters_22, Rubeelu_22
- Track 264 : Phrann_21
- Track 265 : Kevin1_22
- Track 266 : Andies_21, Willsammy_22, Dynamo_22, Scitech_21
- Track 267 : MichelleMyBell_22
- Track 268 : Rebel_21
- Track 269 : Raymond7_21
- Track 270 : Impisi_22
- Track 271 : Xeno_21
- Track 272 : Sonah_22, Bartholomew_22, Ksquared_22, Phegasus_22, Fishburne_22, Techage_22, Bhagsy_22, Brusacoram_22, Jebeks_22, Zilizebeth_22, Kari_22, Juniormint_22, Venti_22, Polkaroo_22, Donovan_22, Mangethe_22, Necropolis_22, Majeke_22, HUHilltop_22, Vidya_22, FirstPlacePfu_22, Etoile_22, HC_22, Babsiella_22, StevieRay_22, Bunnies_22, Thespis_22, Arib1_22, GaloreK_22
- Track 273 : Jung_22

• Track 274 : Gavriela_22, CactusJack_22, StressBall_22, Glaske_22, Shweta_21, Megiddo_22, KilKor_22, Phalm_22
• Track 275 : BronnyJr_22
• Track 276 : Atcoo_22
• Track 277 : Camster_22
• Track 278 : Phineas_22
• Track 279 : Langerak_22, Malithi_22
• Track 280 : PeanutPie_22
• Track 281 : Tortellini_22
• Track 282 : Xavia_22
• Track 283 : BigNuz_22, Nazo_22
• Track 284 : Phayonce_22, ThulaThula_22
• Track 285 : Demikore_38, Patience_38, Madruga_36, SuperSonics_37, Labelle_37
• Track 286 : Bluvara_22
• Track 287 : GodPhather_26, MasterPo_33, Jeon_25
• Track 288 : Cracklewink_28
• Track 289 : Hilltopfarm_28, Faiyaz_28, AuntGwenStacy_28, Typha_28
• Track 290 : Bipper_28
• Track 291 : Chubbello_22

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

The start number called the most often in the published annotations is 76, it was called in 170 of the 524 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Agent47_27, AlleyCat_28, Amelie_24, Andies_21, Arib1_22, Atcoo_22, AuntGwenStacy_28, Auspice_31, Babsiella_22, BananenDer11_27, Bartholomew_22, Bhagsy_22, BigNuz_22, Biglebops_24, Bipper_28, Bluvara_22, Bobquesha_30, Bongo_31, BoostSeason_25, Bricole_31, Bromden_23, BronnyJr_22, Brusacoram_22, Bryler_28, Bunnies_22, CactusJack_22, Cain_28, Camster_22, Chancellor_29, Chaser_21, Che9c_21, Cheetobro_29, Chris_27, Chubbello_22, Collard_27, Cracklewink_28, Curiosium_29, Dadosky_28, DanSyl44_30, Diminimus_32, DismalFunk_25, DismalStressor_25, Donovan_22, DoubleChamp_27, Douge_21, Doughnut_25, Dulcita_32, Dynamo_22, DyoEdafos_22, Edugator_27, Enkosi_24, Etoile_22, Faiyaz_28, Farewell_21, Feyre_27, Findley_25, Fionnbharth_29, FirstPlacePfu_22, Fishburne_22, FreakyGoo_32, GaloreK_22, Gavriela_22, Gengar_27, Glaske16_32, Glaske_22, Guillsminger_27, HC_22, HUHilltop_22, Heftyboy_27, Hilltopfarm_28, Hurricane_28, IPhane7_31, IdentityCrisis_21, Impisi_22, InvictusManeo_27, Izel_32, JF1_29, Jebeks_22, Jung_22, Juniormint_22, Kari_22, Keshu_28, KilKor_22, KleverKiS_31, Kratio_26, Kraw_29, Kropertea_21, Krueger_28, Ksquared_22, Larva_28, LastHope_28, Lea83_28, Lebo14_29, Leston_27, LilDirt_26, LilPharaoh_24, LilhomieP_30, LordVader_21, MacnCheese_29, Majeke_22, MalagasyRose_28, Malthus_30, Mangethe_22, Marcoliusprime_25, MarkPhew_28, Marshawn_29, Mdavu_24, Megiddo_22, MichelleMyBell_22, Milly_25, Miryou_27, MissDaisy_29, Mitti_29, Mufasa_25, Nazo_22, Necropolis_22, Neighly_28, Nibb_27, Nikao_24, Nutello_24, OkiRoe_27, OmniCritical_29, Omnicron_28, Panchino_21, Paola_27, Patt_29, PegLeg_31, Phalm_22, Phayonce_22, Phegasus_22, PhelpsODU_28, Phineas_22, Phrank_28, Pixie_28, Polkaroo_22, Psycho_28, Purky_22, Qhanda_30,

Rando14_28, Raymond7_21, Rebel_21, Reindeer_30, Reptar3000_29, Sbash_21, Scitech_21, SgtBeansprout_24, Shadow1_27, ShedlockHolmes_28, Shweta_21, SirPhilip_27, SkinnyPete_21, Skinny_32, Slarp_29, SlimJimmy_30, SoSeph_27, Sonah_22, Sparky_21, StevieRay_22, StressBall_22, Strobilo_25, Sunflower1121_27, Syra333_28, TBond007_28, TClif_28, TM4_25, Techage_22, Thespis_22, ThulaThula_22, Thyatira_27, Tierra_28, Tigress9_29, TingHuaYa_28, Torres_24, Tortellini_22, TpudiCK_32, TribleTrouble_27, TyDawg_31, Typha_28, Unicorn_28, Venti_22, Vidya_22, ViviJ_26, WST1_22, Waterfoul_27, Willsammy_22, Wintermute_29, Xavia_22, Xeno_21, Ximenita_29, Y10_29, Y2_29, Zilizebeth_22, ZoeJ_25,

Genes that have the "Most Annotated" start but do not call it:
• Eponine_29, FarmResident_21, Langerak_22, Malithi_22, PeanutPie_22, Phrann_21, Quby_21, SamScheppers_27, Taquito_27, Teejan_24, Trice_24, YasnayaPolyana_29,

Genes that do not have the "Most Annotated" start:
• 39HC_027, 40BC_027, 8UZL_25, ActinUp_28, Adephagia_28, Adonis_28, Adriana_33, Ageofdapage_28, Alephilan_30, AlishaPH_28, Allegro_33, AltPhacts_33, Alyssamiracle_33, Amgine_26, Amohnition_27, Anamika_30, Anaya_29, Angelica_28, Anma_28, Apeppi_30, Apocalypse_28, Applecrisp_26, Arbiter_33, Archimedes_26, Arti_44, Asayake_28, Ashraf_32, Astralis_30, Atiba_28, Avian_30, Ayotoya_27, BEEST_28, BGlluviae_28, BabyMoney_29, Badfish_33, BaghaKamala_28, Bananafish_33, Barnyard_37, BarrelRoll_28, Beaver_33, Beezoo_28, Bella96_28, Belladonna_28, Bern_28, Berries_30, BetterKatz_27, BiPauneto_47, Bianmat_30, BillyBobJr_34, BirksAndSocks_33, BirthdayBoy_34, Blizzard_28, Blocker23_33, Bock_27, Boehler_33, Boiiii_28, Boneham_33, Bonum_48, Boyle_33, Brownie5_33, Brylie_27, Buggaboo_46, Butterball_33, Butters_22, CREW_28, Calamitous_33, CallaLilly_28, Capricorn_28, CaseJules_28, Charianelly_30, CharlieGBrown_32, Charminar_31, Chavito_28, CheetoDust_28, CherryTomatoes_125, Childish_32, Chipette_34, Chop_27, Chuni_32, CinnamonToast_34, Clipper_28, Cobra_33, Coffee_33, Commandaria_46, Cornbread_32, Cosmolli16_32, Craff_33, CrimD_28, Dalilpop_49, Dalmuri_28, Damp_30, Daredevil_37, DartGoblin_28, DarthP_27, Dartin_28, DaviePasture_33, Deby_28, DelRio_28, Demikore_38, Derpp_32, Devera_28, Diabla_32, Dogfish_30, Dole_28, DoobyDoo_32, Dori_29, DrHayes_28, DrLupo_39, DumpsterDude_23, Durfee_28, Durga_33, Eaglehorse_33, Efra2_28, Ekdilam_25, Ellie_25, ElvisPhasley_33, Emerson_28, Emianna_44, Emiris_33, Ennea_51, Erutan_33, Eugenia_33, Ewald_30, FF47_25, Fang_33, Faze9_33, Fefferhead_27, FelixAlejandro_34, Flapper_49, Float294_47, ForDig_27, Foxboro_45, Francois_27, FrenchFry_33, Freya_32, Fulcrum_34, Funsized_35, Fury_53, GOATification_34, GRU1_34, GTE5_36, GTE8_33, GalacticEye_30, Ganymede_29, Genamy16_33, GeneCoco_33, Geraldini_28, Gibbin_34, Glass_33, GodPhather_26, GrandSlam_27, GretelLyn_33, GrootJr_46, Gsput1_26, Guanica15_28, Guillaume_30, Hail2Pitt_30, Hammy_27, Hamood_27, Harambe_30, Hedgerow_33, HedwigODU_28, Hello_30, HenryJackson_32, HighStump_32, HogWash_32, Holeinone_33, HomeFry_50, Homura_28, Hosp_025, HubbaBubba_42, Hyperbowlee_28, Illumine_28, ImtiyazSitla_32, Inky_28, ItsyBitsy1_33, JAWS_28, JDog_32, Jalebi_32, Jamemuya19_30, Jams_30, Jarvi_28, Jayhawk_28, Jeckyll_28, Jellybones_33, Jeon_25, Jifall16_43, Jillium_32, John316_33, Jolie1_027, Jolie2_23, Jormungandr_30, Joy99_28, Juliette_30, Jumbo_25, Kabluna_48, Kahve_32, Kaleb_33, Kaseim_30, Katniss_33, KayaCho_27, Kevin1_22, Khan1_33, KiSi_27, KidneyBean_44, Kikipoo_33, Kolhan_33, Kurt_44, Kwksand96_32, Labelle_37,

Labeouficaum_32, Lahirium_30, Lambo_33, Lars_33, LaterM_28, LavAbarElk_31, Lavahound_26, LeMond_27, Lephleur_33, Lidong_30, LilMcDreamy_28, LilSmirk_33, Lila22_32, LindNT_28, LizLemon_33, Llorens_28, Lollipop1437_50, LongHai_26, Longacauda_32, LuckyLeo_32, Luker_31, Lunahalos_28, MacKat_28, Maco6_23, Madruga_36, MakCheese_24, Manilisa_32, Mao1_27, Mask_28, Maskar_32, MasterPo_33, McMater_28, MeaningOfLife_28, Megsy_28, MelsMeow_32, MerCougar_46, Mesh1_33, Meyran_29, Mima20_31, Minos_31, MoiGyank_35, MrPhizzler_33, MrWormie_30, Msay19_34, Muddy_25, Mulch_27, Murucutumbu_28, Mynx_28, Nadeem_27, NancyRae_27, NatB6_44, Nathan_33, Neoevie_30, Newt_31, Niklas_28, Nimi13_30, NorManre_34, NosilaM_48, NovaSharks_32, November_26, NovumRegina_44, Nyceirae_31, Opia_33, Orion_33, Oscar_27, OtterstedtS21_33, Outis_46, PG1_33, Padfoot_28, Padpat_28, Parada_27, ParvusTarda_33, Patience_38, Patio_48, Patos_34, Peanam_28, Peel_28, Pemberton_48, Phantasmagoria_33, Pharb_27, Phareon_33, PhatCats2014_33, Phishy_30, Phomeo_43, Piatt_28, Piglet_0032, Pimento_27, Pinkman_32, Pipsqueak_33, Pisa1_27, Pisa4_27, Pleakley_53, Pokerus_27, Poland_34, Pops_33, PrinceCharming_33, Prithvi_28, Pupper_126, QuincyRose_27, Ramen_28, Ranch_33, Rapunzel97_28, RavenCo17_26, RazorC_31, RedRaider_52, Rhinoforte_33, Richo_28, Rimu_33, Rinkes_34, Rosebush_33, Rosmarinus_28, Rota_32, Rubeelu_22, Rukungu_33, Rumi_32, Ruthiejr_29, SCentae_125, Salvus_26, Sampudon_33, SamuelLPlaqson_28, Scarlett_27, Scoot17C_33, Scuba_53, Sejanus_28, Serendipity_33, Shaobing_28, Shelley_30, ShiaSurprise_28, Skog_188, Skysand_47, Slimphazie_28, Solosis_32, Spock_28, Sprinklemunch_22, StarStruck_46, Stargaze_23, Sticker17_30, Stinson_29, Stormer_32, Sukkupi_46, Sulley_28, SuperSonics_37, SuperSulley_46, Tachez_28, TaiwanKao_29, Teal_30, ThreeOh3D2_33, Tillicus_32, Tinciduntsolum_34, TiniBug_28, Tiri_28, Topper_28, Towmatter_36, Tracker_44, Tres_33, TreyKay_28, TruffulaTree_28, Trypo_33, Twitch_28, TyrionL_32, Urkel_28, Validus_28, Veliki_28, Vista_33, Vordorf_31, Wallhey_32, Waterdiva_33, West99_33, WheatThin_27, Wheezy_44, WhoseManz_46, Woes_30, Wojtek_32, YangYin_23, Yikes_34, Yndexa_46, YoureAdopted_27, Yuna_29, Yunkel11_28, Zabiza_28, Zany_32, Zavala_28, Zodiariah_22, Zonia_33,

Summary by start number:

Start 34:
• Found in 1 of 599 (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 46:
• Found in 45 of 599 (7.5%) of genes in pham
• Manual Annotations of this start: 10 of 524
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Bananafish_33 (B2), Blocker23_33 (B2), Brownie5_33 (B2), Dori_29 (AD), GodPhather_26 (W), Jeon_25 (W), Lephleur_33 (B2), MasterPo_33 (B2), PrinceCharming_33 (B2), Tinciduntsolum_34 (B2),

Start 48:
• Found in 106 of 599 (17.7%) of genes in pham
• Manual Annotations of this start: 84 of 524
• Called 90.6% of time when present

• Phage (with cluster) where this start called: 39HC_027 (B6), 40BC_027 (B6), Adriana_33 (B1), Allegro_33 (B2), AltPhacts_33 (B1), Arbiter_33 (B2), Ashraf_32 (B1), Badfish_33 (B1), Boehler_33 (B1), Boyle_33 (B2), Calamitous_33 (B2), CharlieGBrown_32 (B1), Childish_32 (B1), Chipette_34 (B1), Chuni_32 (B1), Cobra_33 (B1), Coffee_33 (B2), Cornbread_32 (B1), Cosmolli16_32 (B1), Craff_33 (B1), Derpp_32 (B1), Durga_33 (B1), Eaglehorse_33 (B2), ElvisPhasley_33 (B1), Emiris_33 (B1), Eugenia_33 (B1), Fang_33 (B1), Faze9_33 (B2), ForDig_27 (B6), FrenchFry_33 (B2), Freya_32 (B1), Funsized_35 (B9), GeneCoco_33 (B1), Glass_33 (B2), Hedgerow_33 (B2), HenryJackson_32 (B1), HighStump_32 (B1), HogWash_32 (B1), Holeinone_33 (B2), Hosp_025 (B6), ImtiyazSitla_32 (B1), ItsyBitsy1_33 (B2), JDog_32 (B1), Jillium_32 (B1), Jolie1_027 (B6), Jolie2_23 (G4), Kahve_32 (B1), Kaleb_33 (B2), Katniss_33 (B1), KayaCho_27 (B6), Khan1_33 (B1), Kikipoo_33 (B1), Kolhan_33 (B2), Kwksand96_32 (B1), Labeouficaum_32 (B1), Lars_33 (B2), LilMcDreamy_28 (B12), LilSmirk_33 (B2), LizLemon_33 (B2), Longacauda_32 (B1), Mao1_27 (AD), Mask_28 (AD), Maskar_32 (B1), MelsMeow_32 (B1), Mesh1_33 (B1), MrPhizzler_33 (B1), Nathan_33 (B1), Opia_33 (B2), Orion_33 (B1), PG1_33 (B1), Phantasmagoria_33 (B2), Phareon_33 (B1), PhatCats2014_33 (B1), Piglet_0032 (B1), Pinkman_32 (B1), Pipsqueak_33 (B1), Pops_33 (B1), Rhinoforte_33 (B2), Rimu_33 (B1), Rinkes_34 (B9), Rosebush_33 (B2), Scoot17C_33 (B1), Sejanus_28 (AD), Serendipity_33 (B1), Solosis_32 (B1), Stargaze_23 (G5), ThreeOh3D2_33 (B1), Tres_33 (B2), Trypo_33 (B1), TyrionL_32 (B1), Vista_33 (B1), Wallhey_32 (B1), Waterdiva_33 (B1), West99_33 (B2), YangYin_23 (G5), Zonia_33 (B1),

Start 65:
• Found in 11 of 599 (1.8%) 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 72:
• Found in 4 of 599 (0.7%) of genes in pham
• Manual Annotations of this start: 4 of 524
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barnyard_37 (H2), DrLupo_39 (H2), Pharb_27 (K3), Taquito_27 (K4),

Start 73:
• Found in 150 of 599 (25.0%) of genes in pham
• Manual Annotations of this start: 102 of 524
• Called 72.0% of time when present
• Phage (with cluster) where this start called: Adephagia_28 (K1), Ageofdapage_28 (K1), AlishaPH_28 (K1), Amgine_26 (K6), Amohnition_27 (K6), Angelica_28 (K1), Apocalypse_28 (K1), Applecrisp_26 (K6), Asayake_28 (K1), Atiba_28 (K1), BEEST_28 (K1), BGlluviae_28 (K1), BaghaKamala_28 (K1), BarrelRoll_28 (K1), Beezoo_28 (K1), Bella96_28 (K1), Belladonna_28 (K1), Bern_28 (K1), Blizzard_28 (K1), Boiiii_28 (K1), CREW_28 (K1), CallaLilly_28 (K1), Capricorn_28 (K1), CaseJules_28 (K1), CheetoDust_28 (K1), Clipper_28 (K1), CrimD_28 (K1), Dalmuri_28 (K1), DarthP_27 (K6), Dartin_28 (K1), Deby_28 (K1), Devera_28 (K1), Dole_28 (K1), DrHayes_28 (K1), Durfee_28 (K1), Efra2_28 (K1), Ekdilam_25 (K6), Ellie_25 (K6), Emerson_28 (K1), Eponine_29 (K4), Fefferhead_27 (K6), Ganymede_29 (K1), Geraldini_28 (K1), Guanica15_28 (K1), Hammy_27 (K6), HedwigODU_28 (K1), Homura_28 (K1), Hyperbowlee_28 (K1), Illumine_28 (K1), Inky_28 (K1), JAWS_28 (K1), Jarvi_28 (K1), Jayhawk_28 (K1), Jeckyll_28 (K1),

Joy99_28 (K1), Langerak_22 (P1), LaterM_28 (K1), Lavahound_26 (K6), LindNT_28 (K1), Llorens_28 (K1), Lunahalos_28 (K1), MacKat_28 (K1), Malithi_22 (P1), McMater_28 (K1), MeaningOfLife_28 (K1), Megsy_28 (K1), Murucutumbu_28 (K1), Mynx_28 (K1), Niklas_28 (K1), November_26 (K6), Padfoot_28 (K1), Padpat_28 (K1), Peanam_28 (K1), Peel_28 (K1), Phrann_21 (N), Piatt_28 (K1), Pisa1_27 (K1), Pisa4_27 (K1), Pokerus_27 (K1), Prithvi_28 (K1), QuincyRose_27 (K1), Ramen_28 (K1), Rapunzel97_28 (K1), Richo_28 (K1), Rosmarinus_28 (K1), SamScheppers_27 (K4), SamuelLPlaqson_28 (K1), Shaobing_28 (K1), ShiaSurprise_28 (K1), Slimphazie_28 (K1), Spock_28 (K1), Stinson_29 (K1), Sulley_28 (K1), Tachez_28 (K1), TiniBug_28 (K1), Tiri_28 (K1), Topper_28 (K1), TreyKay_28 (K1), TruffulaTree_28 (K1), Twitch_28 (K1), Urkel_28 (K1), Validus_28 (K1), Veliki_28 (K1), YoureAdopted_27 (K1), Yuna_29 (K6), Yunkel11_28 (K1), Zabiza_28 (K1), Zavala_28 (K1),

Start 74:
• Found in 5 of 599 (0.8%) of genes in pham
• Manual Annotations of this start: 5 of 524
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Butters_22 (N), Juliette_30 (K4), Kevin1_22 (N), Rubeelu_22 (N), Ruthiejr_29 (K4),

Start 75:
• Found in 4 of 599 (0.7%) of genes in pham
• Manual Annotations of this start: 4 of 524
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KiSi_27 (K1), LeMond_27 (K1), Oscar_27 (K1), Scarlett_27 (K1),

Start 76:
• Found in 205 of 599 (34.2%) of genes in pham
• Manual Annotations of this start: 170 of 524
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Agent47_27 (K5), AlleyCat_28 (K5), Amelie_24 (K1), Andies_21 (N), Arib1_22 (P1), Atcoo_22 (P1), AuntGwenStacy_28 (Y), Auspice_31 (M1), Babsiella_22 (I1), BananenDer11_27 (K5), Bartholomew_22 (P1), Bhagsy_22 (P1), BigNuz_22 (P4), Biglebops_24 (K1), Bipper_28 (Y), Bluvara_22 (UNK), Bobquesha_30 (K4), Bongo_31 (M1), BoostSeason_25 (K2), Bricole_31 (M1), Bromden_23 (L4), BronnyJr_22 (P1), Brusacoram_22 (P1), Bryler_28 (K6), Bunnies_22 (P1), CactusJack_22 (P1), Cain_28 (K6), Camster_22 (P1), Chancellor_29 (K4), Chaser_21 (L4), Che9c_21 (I2), Cheetobro_29 (K4), Chris_27 (K1), Chubbello_22 (none), Collard_27 (K5), Cracklewink_28 (Y), Curiosium_29 (K1), Dadosky_28 (K5), DanSyl44_30 (K4), Diminimus_32 (M1), DismalFunk_25 (K2), DismalStressor_25 (K2), Donovan_22 (P1), DoubleChamp_27 (K5), Douge_21 (L4), Doughnut_25 (K2), Dulcita_32 (M1), Dynamo_22 (P1), DyoEdafos_22 (L4), Edugator_27 (K5), Enkosi_24 (K1), Etoile_22 (P1), Faiyaz_28 (Y), Farewell_21 (AF), Feyre_27 (K5), Findley_25 (K2), Fionnbharth_29 (K4), FirstPlacePfu_22 (P1), Fishburne_22 (P1), FreakyGoo_32 (M1), GaloreK_22 (P1), Gavriela_22 (P1), Gengar_27 (K5), Glaske16_32 (M1), Glaske_22 (P1), Guillsminger_27 (K5), HC_22 (I1), HUHilltop_22 (P1), Heftyboy_27 (K5), Hilltopfarm_28 (Y), Hurricane_28 (K3), IPhane7_31 (M1), IdentityCrisis_21 (AJ), Impisi_22 (N), InvictusManeo_27 (K5), Izel_32 (M1), JF1_29 (K4), Jebeks_22 (P1), Jung_22 (P1), Juniormint_22 (P1), Kari_22 (P1), Keshu_28 (K3), KilKor_22 (P1), KleverKiS_31 (M1), Kratio_26 (K5), Kraw_29 (K4), Kropertea_21 (L4), Krueger_28

(K6), Ksquared_22 (P1), Larva_28 (K5), LastHope_28 (K1), Lea83_28 (K3), Lebo14_29 (K4), Leston_27 (K5), LilDirt_26 (K5), LilPharaoh_24 (K1), LilhomieP_30 (M1), LordVader_21 (F), MacnCheese_29 (K3), Majeke_22 (P1), MalagasyRose_28 (AG), Malthus_30 (K4), Mangethe_22 (P1), Marcoliusprime_25 (K2), MarkPhew_28 (K1), Marshawn_29 (K6), Mdavu_24 (K1), Megiddo_22 (P1), MichelleMyBell_22 (N), Milly_25 (K2), Miryou_27 (K5), MissDaisy_29 (K4), Mitti_29 (K4), Mufasa_25 (K2), Nazo_22 (P4), Necropolis_22 (P1), Neighly_28 (K3), Nibb_27 (K1), Nikao_24 (K1), Nutello_24 (K1), OkiRoe_27 (K5), OmniCritical_29 (K4), Omnicron_28 (K5), Panchino_21 (N), Paola_27 (K5), Patt_29 (K4), PegLeg_31 (M1), Phalm_22 (P1), Phayonce_22 (P5), Phegasus_22 (P1), PhelpsODU_28 (K6), Phineas_22 (P1), Phrank_28 (K6), Pixie_28 (K3), Polkaroo_22 (P1), Psycho_28 (K5), Purky_22 (P6), Qhanda_30 (K4), Rando14_28 (K5), Raymond7_21 (N), Rebel_21 (N), Reindeer_30 (M1), Reptar3000_29 (K4), Sbash_21 (I2), Scitech_21 (N), SgtBeansprout_24 (K1), Shadow1_27 (K6), ShedlockHolmes_28 (K3), Shweta_21 (N), SirPhilip_27 (K6), SkinnyPete_21 (N), Skinny_32 (M1), Slarp_29 (K4), SlimJimmy_30 (M1), SoSeph_27 (K5), Sonah_22 (P1), Sparky_21 (AF), StevieRay_22 (P1), StressBall_22 (P1), Strobilo_25 (K2), Sunflower1121_27 (K6), Syra333_28 (K6), TBond007_28 (K3), TClif_28 (K6), TM4_25 (K2), Techage_22 (P1), Thespis_22 (P1), ThulaThula_22 (P5), Thyatira_27 (K5), Tierra_28 (K6), Tigress9_29 (K6), TingHuaYa_28 (K1), Torres_24 (K1), Tortellini_22 (P2), TpudiCK_32 (M1), TribleTrouble_27 (K3), TyDawg_31 (M1), Typha_28 (Y), Unicorn_28 (K6), 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), Ximenita_29 (K6), Y10_29 (K4), Y2_29 (K4), Zilizebeth_22 (P1), ZoeJ_25 (K2),

Start 78:
• Found in 3 of 599 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 524
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Daredevil_37 (DL), GTE8_33 (CR2), Towmatter_36 (DL),

Start 79:
• Found in 5 of 599 (0.8%) of genes in pham
• Manual Annotations of this start: 3 of 524
• 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 80:
• Found in 37 of 599 (6.2%) of genes in pham
• Manual Annotations of this start: 33 of 524
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arti_44 (CR2), BiPauneto_47 (CR4), Bonum_48 (CR2), Buggaboo_46 (CR2), Commandaria_46 (CR2), Emianna_44 (CR2), Ennea_51 (CR3), Float294_47 (CR3), Foxboro_45 (CR2), Fury_53 (CR5), GrootJr_46 (CR2), Gsput1_26 (CU2), 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 85:
• Found in 37 of 599 (6.2%) of genes in pham
• No Manual Annotations of this start.
• Called 2.7% of time when present
• Phage (with cluster) where this start called: PeanutPie_22 (P1),

Start 90:
• Found in 6 of 599 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 524
• 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 93:
• Found in 39 of 599 (6.5%) of genes in pham
• Manual Annotations of this start: 33 of 524
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Alephilan_30 (DV), Alyssamiracle_33 (DV), Apeppi_30 (DV), Astralis_30 (DV), Avian_30 (DV), BirthdayBoy_34 (DV), Charminar_31 (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), Ranch_33 (DV), RazorC_31 (DV), Rumi_32 (DV), Sampudon_33 (DV), Stormer_32 (DV), Tillicus_32 (DV), Wojtek_32 (DV), Yikes_34 (DV), Zany_32 (DV),

Start 95:
• Found in 5 of 599 (0.8%) of genes in pham
• Manual Annotations of this start: 3 of 524
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Jumbo_25 (DF3), Phishy_30 (DT), Sprinklemunch_22 (DW), Zodiariah_22 (DW),

Start 96:
• Found in 8 of 599 (1.3%) of genes in pham
• Manual Annotations of this start: 5 of 524
• Called 87.5% of time when present
• Phage (with cluster) where this start called: BabyMoney_29 (DT), DumpsterDude_23 (DW), Ewald_30 (DT), Nyceirae_31 (DT), Pimento_27 (DI), RavenCo17_26 (CZ8), Vordorf_31 (DT),

Start 97:
• Found in 1 of 599 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 524
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Archimedes_26 (DA),

Start 98:
• Found in 5 of 599 (0.8%) of genes in pham
• Manual Annotations of this start: 3 of 524

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Demikore_38 (U), Labelle_37 (U), Madruga_36 (U), Patience_38 (U), SuperSonics_37 (U),

Start 99:
• Found in 2 of 599 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 524
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dogfish_30 (DT), Manilisa_32 (DT),

Start 100:
• Found in 14 of 599 (2.3%) of genes in pham
• Manual Annotations of this start: 14 of 524
• 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 104:
• Found in 10 of 599 (1.7%) of genes in pham
• Manual Annotations of this start: 1 of 524
• Called 10.0% of time when present
• Phage (with cluster) where this start called: YasnayaPolyana_29 (K4),

Start 105:
• Found in 2 of 599 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 524
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Meyran_29 (DT),

Start 107:
• Found in 3 of 599 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 66.7% of time when present
• Phage (with cluster) where this start called: FarmResident_21 (L4), Quby_21 (L4),

Start 115:
• Found in 27 of 599 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 524
• Called 3.7% of time when present
• Phage (with cluster) where this start called: LuckyLeo_32 (DV),

Start 117:
• Found in 83 of 599 (13.9%) of genes in pham
• Manual Annotations of this start: 3 of 524
• Called 7.2% of time when present
• Phage (with cluster) where this start called: ActinUp_28 (K1), Adonis_28 (K1), Anaya_29 (K1), Anma_28 (K1), DartGoblin_28 (K1), TaiwanKao_29 (K1),

Start 126:
• Found in 7 of 599 (1.2%) of genes in pham
• No Manual Annotations of this start.

• Called 28.6% of time when present
• Phage (with cluster) where this start called: Rota_32 (DV), Rukungu_33 (DV),

Start 135:
• Found in 10 of 599 (1.7%) of genes in pham
• Manual Annotations of this start: 4 of 524
• Called 40.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_125 (DO), Pupper_126 (DO), SCentae_125 (DO), Skog_188 (DO),

Start 137:
• Found in 37 of 599 (6.2%) of genes in pham
• Manual Annotations of this start: 35 of 524
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anamika_30 (CS3), Beaver_33 (CS2), Berries_30 (CS3), Bianmat_30 (CS3), BillyBobJr_34 (CS2), BirksAndSocks_33 (CS2), Boneham_33 (CS2), Butterball_33 (CS2), Charianelly_30 (CS3), CinnamonToast_34 (CS2), Damp_30 (CS3), Diabla_32 (CS2), FelixAlejandro_34 (CS2), GalacticEye_30 (CS3), Guillaume_30 (CS3), Hail2Pitt_30 (CS3), Harambe_30 (CS3), Hello_30 (CS3), Jams_30 (CS3), Jellybones_33 (CS2), John316_33 (CS2), 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), Sticker17_30 (CS3), Teal_30 (CS3), Woes_30 (CS3),

Start 140:
• Found in 41 of 599 (6.8%) of genes in pham
• No Manual Annotations of this start.
• Called 2.4% of time when present
• Phage (with cluster) where this start called: MakCheese_24 (DW),

Summary by clusters:

There are 53 clusters represented in this pham: DO, CZ8, DI, DL, DA, K3, K2, K1, AB, M1, K6, K5, K4, DV, DW, DT, F, G4, AG, I1, I2, DF3, CS3, CS2, P2, P3, P1, P6, AD, P4, P5, AJ, G5, N, L4, U, W, Y, UNK, AF, CU2, CR2, CR3, none, CR1, CR4, CR5, H2, B6, B1, B2, B12, B9,

Info for manual annotations of cluster AB:
•Start number 90 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster AD:
•Start number 46 was manually annotated 1 time for cluster AD.
•Start number 48 was manually annotated 3 times for cluster AD.

Info for manual annotations of cluster AF:
•Start number 76 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AG:
•Start number 76 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AJ:
•Start number 76 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster B1:
•Start number 48 was manually annotated 54 times for cluster B1.

Info for manual annotations of cluster B12:
•Start number 48 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B2:
•Start number 46 was manually annotated 7 times for cluster B2.
•Start number 48 was manually annotated 21 times for cluster B2.

Info for manual annotations of cluster B6:
•Start number 48 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B9:
•Start number 48 was manually annotated 2 times for cluster B9.

Info for manual annotations of cluster CR1:
•Start number 79 was manually annotated 2 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 80 was manually annotated 21 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 80 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 79 was manually annotated 1 time for cluster CR4.
•Start number 80 was manually annotated 4 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 80 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CS2:
•Start number 137 was manually annotated 10 times for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 137 was manually annotated 25 times for cluster CS3.

Info for manual annotations of cluster CZ8:
•Start number 96 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DA:
•Start number 97 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DF3:
•Start number 95 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DI:
•Start number 96 was manually annotated 1 time for cluster DI.
•Start number 100 was manually annotated 14 times for cluster DI.

Info for manual annotations of cluster DL:
•Start number 78 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster DO:
•Start number 135 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DT:
•Start number 95 was manually annotated 1 time for cluster DT.
•Start number 96 was manually annotated 2 times for cluster DT.
•Start number 99 was manually annotated 1 time for cluster DT.
•Start number 105 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster DV:
•Start number 93 was manually annotated 33 times for cluster DV.
•Start number 115 was manually annotated 1 time for cluster DV.

Info for manual annotations of cluster DW:
•Start number 95 was manually annotated 1 time for cluster DW.
•Start number 96 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster G5:
•Start number 48 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster H2:
•Start number 72 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster I1:
•Start number 76 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster I2:
•Start number 76 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster K1:
•Start number 73 was manually annotated 87 times for cluster K1.
•Start number 75 was manually annotated 4 times for cluster K1.
•Start number 76 was manually annotated 14 times for cluster K1.
•Start number 117 was manually annotated 3 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 76 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 72 was manually annotated 1 time for cluster K3.
•Start number 76 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 72 was manually annotated 1 time for cluster K4.
•Start number 73 was manually annotated 2 times for cluster K4.
•Start number 74 was manually annotated 2 times for cluster K4.
•Start number 76 was manually annotated 16 times for cluster K4.
•Start number 104 was manually annotated 1 time for cluster K4.

Info for manual annotations of cluster K5:
•Start number 76 was manually annotated 23 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 73 was manually annotated 10 times for cluster K6.
•Start number 76 was manually annotated 14 times for cluster K6.

Info for manual annotations of cluster L4:
•Start number 76 was manually annotated 4 times for cluster L4.

Info for manual annotations of cluster M1:
•Start number 76 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster N:
•Start number 73 was manually annotated 1 time for cluster N.
•Start number 74 was manually annotated 3 times for cluster N.
•Start number 76 was manually annotated 8 times for cluster N.

Info for manual annotations of cluster P1:
•Start number 73 was manually annotated 2 times for cluster P1.
•Start number 76 was manually annotated 37 times for cluster P1.

Info for manual annotations of cluster P2:
•Start number 76 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:
•Start number 76 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:
•Start number 76 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 76 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:
•Start number 76 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster U:
•Start number 98 was manually annotated 3 times for cluster U.

Info for manual annotations of cluster W:
•Start number 46 was manually annotated 2 times for cluster W.

Info for manual annotations of cluster Y:
•Start number 76 was manually annotated 5 times for cluster Y.

Gene Information:

Gene: 39HC_027 Start: 30067, Stop: 31293, Start Num: 48
Candidate Starts for 39HC_027:
(9, 29542), (11, 29644), (Start: 48 @30067 has 84 MA's), (56, 30106), (71, 30157), (81, 30178), (101, 30223), (119, 30283), (131, 30304), (133, 30307), (154, 30364), (170, 30418), (171, 30421), (172, 30427), (233, 30544), (271, 30613), (296, 30718), (336, 30850), (339, 30856), (375, 30979), (391, 31039), (415, 31093), (419, 31099), (443, 31147),

Gene: 40BC_027 Start: 30067, Stop: 31293, Start Num: 48
Candidate Starts for 40BC_027:
(9, 29542), (11, 29644), (Start: 48 @30067 has 84 MA's), (56, 30106), (71, 30157), (81, 30178), (101, 30223), (119, 30283), (131, 30304), (133, 30307), (154, 30364), (170, 30418), (171, 30421), (172, 30427), (233, 30544), (271, 30613), (296, 30718), (336, 30850), (339, 30856), (375, 30979), (391, 31039), (415, 31093), (419, 31099), (443, 31147),

Gene: 8UZL_25 Start: 21727, Stop: 22752, Start Num: 90
Candidate Starts for 8UZL_25:
(Start: 90 @21727 has 2 MA's), (130, 21817), (158, 21886), (161, 21895), (203, 21973), (237, 22036), (238, 22039), (263, 22087), (303, 22183), (314, 22219), (331, 22270), (342, 22327), (422, 22564), (463, 22690),

Gene: ActinUp_28 Start: 23436, Stop: 24338, Start Num: 117
Candidate Starts for ActinUp_28:
(17, 22881), (28, 23028), (62, 23280), (Start: 73 @23325 has 102 MA's), (Start: 117 @23436 has 3 MA's), (165, 23550), (221, 23667), (246, 23709), (254, 23721), (314, 23775), (336, 23853), (361, 23949), (366, 23961), (377, 23991), (380, 24000), (411, 24114), (443, 24183),

Gene: Adephagia_28 Start: 23322, Stop: 24335, Start Num: 73
Candidate Starts for Adephagia_28:
(17, 22878), (28, 23025), (62, 23277), (Start: 73 @23322 has 102 MA's), (Start: 117 @23433 has 3 MA's), (165, 23547), (221, 23664), (246, 23706), (254, 23718), (314, 23772), (336, 23850), (361, 23946), (366, 23958), (377, 23988), (380, 23997), (411, 24111), (443, 24180),

Gene: Adonis_28 Start: 23439, Stop: 24341, Start Num: 117
Candidate Starts for Adonis_28:
(17, 22884), (62, 23283), (Start: 73 @23328 has 102 MA's), (Start: 117 @23439 has 3 MA's), (165, 23553), (221, 23670), (246, 23712), (254, 23724), (314, 23778), (336, 23856), (357, 23940), (361, 23952), (366, 23964), (380, 24003), (411, 24117), (443, 24186),

Gene: Adriana_33 Start: 32362, Stop: 33522, Start Num: 48
Candidate Starts for Adriana_33:
(Start: 48 @32362 has 84 MA's), (81, 32473), (101, 32518), (138, 32617), (159, 32677), (170, 32713), (179, 32737), (204, 32782), (209, 32788), (237, 32839), (258, 32878), (259, 32881), (265, 32893), (275, 32908), (305, 32932), (314, 32965), (336, 33046), (344, 33091), (361, 33139), (374, 33175), (378, 33184), (380, 33190), (459, 33415),

Gene: Agent47_27 Start: 24079, Stop: 25143, Start Num: 76
Candidate Starts for Agent47_27:
(Start: 76 @24079 has 170 MA's), (110, 24169), (120, 24196), (147, 24259), (165, 24307), (177, 24346), (188, 24364), (218, 24409), (239, 24448), (267, 24496), (277, 24514), (317, 24589), (337, 24655), (359, 24745), (360, 24748), (361, 24751), (372, 24784), (394, 24883), (395, 24886), (432, 24970), (437, 24982), (470, 25099),

Gene: Ageofdapage_28 Start: 23272, Stop: 24285, Start Num: 73

Candidate Starts for Ageofdapage_28:
(Start: 73 @23272 has 102 MA's), (Start: 117 @23383 has 3 MA's), (165, 23497), (221, 23614), (246, 23656), (314, 23722), (317, 23731), (336, 23800), (361, 23896), (366, 23908), (371, 23926), (380, 23947), (411, 24061), (443, 24130), (468, 24226),

Gene: Alephilan_30 Start: 28717, Stop: 29766, Start Num: 93
Candidate Starts for Alephilan_30:
(Start: 93 @28717 has 33 MA's), (143, 28831), (157, 28873), (164, 28894), (173, 28927), (181, 28942), (212, 29005), (220, 29023), (295, 29176), (307, 29206), (315, 29233), (367, 29416), (379, 29446), (441, 29620), (456, 29674),

Gene: AlishaPH_28 Start: 23315, Stop: 24328, Start Num: 73
Candidate Starts for AlishaPH_28:
(17, 22871), (62, 23270), (Start: 73 @23315 has 102 MA's), (Start: 117 @23426 has 3 MA's), (165, 23540), (221, 23657), (246, 23699), (254, 23711), (314, 23765), (336, 23843), (361, 23939), (366, 23951), (377, 23981), (380, 23990), (411, 24104), (443, 24173),

Gene: Allegro_33 Start: 32683, Stop: 33846, Start Num: 48
Candidate Starts for Allegro_33:
(29, 32536), (Start: 46 @32677 has 10 MA's), (Start: 48 @32683 has 84 MA's), (56, 32722), (64, 32752), (81, 32797), (101, 32842), (138, 32941), (159, 33001), (170, 33037), (179, 33061), (204, 33106), (209, 33112), (237, 33163), (258, 33202), (259, 33205), (265, 33217), (275, 33232), (305, 33256), (314, 33289), (336, 33370), (361, 33463), (374, 33499), (378, 33508), (380, 33514), (391, 33574), (459, 33739),

Gene: AlleyCat_28 Start: 24010, Stop: 25074, Start Num: 76
Candidate Starts for AlleyCat_28:
(Start: 76 @24010 has 170 MA's), (110, 24100), (121, 24130), (145, 24184), (147, 24190), (165, 24238), (177, 24277), (188, 24295), (191, 24298), (239, 24379), (267, 24427), (277, 24445), (337, 24586), (359, 24676), (360, 24679), (361, 24682), (372, 24715), (378, 24727), (394, 24814), (395, 24817), (437, 24913), (470, 25030),

Gene: AltPhacts_33 Start: 32351, Stop: 33511, Start Num: 48
Candidate Starts for AltPhacts_33:
(Start: 48 @32351 has 84 MA's), (81, 32462), (101, 32507), (138, 32606), (159, 32666), (170, 32702), (179, 32726), (204, 32771), (209, 32777), (237, 32828), (258, 32867), (259, 32870), (265, 32882), (275, 32897), (305, 32921), (314, 32954), (336, 33035), (344, 33080), (361, 33128), (374, 33164), (378, 33173), (380, 33179), (459, 33404),

Gene: Alyssamiracle_33 Start: 27521, Stop: 28618, Start Num: 93
Candidate Starts for Alyssamiracle_33:
(Start: 93 @27521 has 33 MA's), (143, 27635), (183, 27728), (201, 27761), (203, 27764), (205, 27767), (213, 27788), (218, 27800), (244, 27848), (278, 27911), (295, 27965), (325, 28061), (335, 28103), (393, 28337), (413, 28376), (446, 28463), (478, 28610),

Gene: Amelie_24 Start: 22900, Stop: 23907, Start Num: 76
Candidate Starts for Amelie_24:
(61, 22849), (65, 22861), (Start: 76 @22900 has 170 MA's), (103, 22960), (133, 23032), (153, 23086), (160, 23107), (221, 23236), (247, 23281), (251, 23284), (313, 23341), (314, 23344), (328, 23389), (337, 23425), (361, 23521), (366, 23533), (397, 23653), (452, 23785),

Gene: Amgine_26 Start: 23356, Stop: 24351, Start Num: 73
Candidate Starts for Amgine_26:

(64, 23320), (Start: 73 @23356 has 102 MA's), (111, 23446), (Start: 117 @23467 has 3 MA's), (162, 23575), (165, 23581), (170, 23602), (177, 23623), (321, 23830), (336, 23884), (337, 23887), (358, 23971), (359, 23974), (412, 24139),

Gene: Amohnition_27 Start: 23778, Stop: 24782, Start Num: 73
Candidate Starts for Amohnition_27:
(Start: 73 @23778 has 102 MA's), (168, 24015), (221, 24120), (330, 24279), (356, 24381), (359, 24393), (394, 24528), (405, 24546), (443, 24639), (461, 24705), (465, 24717),

Gene: Anamika_30 Start: 38386, Stop: 39288, Start Num: 137
Candidate Starts for Anamika_30:
(Start: 137 @38386 has 35 MA's), (193, 38524), (223, 38593), (252, 38641), (301, 38704), (314, 38740), (317, 38749), (358, 38908), (447, 39142), (454, 39160), (473, 39265),

Gene: Anaya_29 Start: 23452, Stop: 24354, Start Num: 117
Candidate Starts for Anaya_29:
(17, 22897), (62, 23296), (Start: 73 @23341 has 102 MA's), (Start: 117 @23452 has 3 MA's), (165, 23566), (221, 23683), (246, 23725), (254, 23737), (314, 23791), (336, 23869), (361, 23965), (366, 23977), (377, 24007), (380, 24016), (411, 24130), (443, 24199),

Gene: Andies_21 Start: 20194, Stop: 21228, Start Num: 76
Candidate Starts for Andies_21:
(Start: 76 @20194 has 170 MA's), (140, 20350), (142, 20356), (178, 20464), (181, 20467), (191, 20482), (243, 20569), (267, 20614), (314, 20695), (331, 20752), (337, 20776), (366, 20881), (385, 20953), (403, 20998),

Gene: Angelica_28 Start: 23290, Stop: 24303, Start Num: 73
Candidate Starts for Angelica_28:
(Start: 73 @23290 has 102 MA's), (Start: 117 @23401 has 3 MA's), (165, 23515), (221, 23632), (254, 23686), (264, 23704), (314, 23740), (336, 23818), (361, 23914), (366, 23926), (377, 23956), (380, 23965), (411, 24079), (443, 24148),

Gene: Anma_28 Start: 23395, Stop: 24297, Start Num: 117
Candidate Starts for Anma_28:
(62, 23239), (Start: 73 @23284 has 102 MA's), (Start: 117 @23395 has 3 MA's), (165, 23509), (221, 23626), (246, 23668), (254, 23680), (314, 23734), (336, 23812), (361, 23908), (366, 23920), (380, 23959), (387, 23995), (443, 24142), (468, 24238),

Gene: Apeppi_30 Start: 28862, Stop: 29908, Start Num: 93
Candidate Starts for Apeppi_30:
(Start: 93 @28862 has 33 MA's), (Start: 115 @28919 has 1 MA's), (155, 29009), (157, 29018), (159, 29024), (162, 29033), (181, 29087), (288, 29285), (307, 29351), (311, 29363), (331, 29432), (371, 29573), (407, 29681),

Gene: Apocalypse_28 Start: 23293, Stop: 24306, Start Num: 73
Candidate Starts for Apocalypse_28:
(Start: 73 @23293 has 102 MA's), (Start: 117 @23404 has 3 MA's), (165, 23518), (221, 23635), (246, 23677), (254, 23689), (314, 23743), (336, 23821), (361, 23917), (366, 23929), (380, 23968), (405, 24064), (411, 24082), (443, 24151),

Gene: Applecrisp_26 Start: 23767, Stop: 24774, Start Num: 73
Candidate Starts for Applecrisp_26:

(64, 23731), (Start: 73 @23767 has 102 MA's), (111, 23857), (Start: 117 @23878 has 3 MA's), (153, 23959), (165, 23992), (170, 24013), (337, 24298), (346, 24337), (359, 24382), (461, 24697), (475, 24757),

Gene: Arbiter_33 Start: 32772, Stop: 33935, Start Num: 48
Candidate Starts for Arbiter_33:
(29, 32625), (Start: 46 @32766 has 10 MA's), (Start: 48 @32772 has 84 MA's), (56, 32811), (64, 32841), (81, 32886), (101, 32931), (138, 33030), (159, 33090), (170, 33126), (179, 33150), (204, 33195), (209, 33201), (237, 33252), (258, 33291), (259, 33294), (265, 33306), (275, 33321), (305, 33345), (314, 33378), (336, 33459), (361, 33552), (374, 33588), (378, 33597), (380, 33603), (391, 33663), (459, 33828),

Gene: Archimedes_26 Start: 23367, Stop: 24368, Start Num: 97
Candidate Starts for Archimedes_26:
(83, 23343), (Start: 97 @23367 has 1 MA's), (125, 23445), (182, 23595), (280, 23766), (337, 23898), (357, 23982), (369, 24018), (393, 24114), (442, 24213), (474, 24348),

Gene: Arib1_22 Start: 21305, Stop: 22342, Start Num: 76
Candidate Starts for Arib1_22:
(68, 21281), (Start: 73 @21302 has 102 MA's), (Start: 76 @21305 has 170 MA's), (85, 21329), (142, 21467), (156, 21509), (181, 21578), (218, 21638), (243, 21683), (267, 21728), (314, 21809), (331, 21866), (337, 21890), (366, 21995), (385, 22067), (403, 22112), (465, 22277),

Gene: Arti_44 Start: 34961, Stop: 36019, Start Num: 80
Candidate Starts for Arti_44:
(1, 33521), (2, 33818), (5, 34049), (13, 34418), (40, 34796), (42, 34811), (Start: 46 @34829 has 10 MA's), (Start: 80 @34961 has 33 MA's), (217, 35306), (245, 35357), (277, 35405),

Gene: Asayake_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Asayake_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (Start: 117 @23467 has 3 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (366, 23992), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Ashraf_32 Start: 31924, Stop: 33084, Start Num: 48
Candidate Starts for Ashraf_32:
(Start: 48 @31924 has 84 MA's), (81, 32035), (101, 32080), (138, 32179), (159, 32239), (170, 32275), (179, 32299), (204, 32344), (209, 32350), (237, 32401), (258, 32440), (259, 32443), (265, 32455), (275, 32470), (305, 32494), (314, 32527), (336, 32608), (344, 32653), (361, 32701), (374, 32737), (378, 32746), (380, 32752), (459, 32977),

Gene: Astralis_30 Start: 27111, Stop: 28208, Start Num: 93
Candidate Starts for Astralis_30:
(Start: 93 @27111 has 33 MA's), (143, 27225), (183, 27318), (201, 27351), (203, 27354), (205, 27357), (212, 27375), (213, 27378), (244, 27438), (272, 27489), (278, 27501), (325, 27651), (335, 27693), (393, 27927), (413, 27966), (446, 28053), (478, 28200),

Gene: Atcoo_22 Start: 21759, Stop: 22826, Start Num: 76
Candidate Starts for Atcoo_22:
(Start: 76 @21759 has 170 MA's), (142, 21921), (156, 21963), (181, 22032), (218, 22092), (243, 22137), (267, 22182), (331, 22320), (337, 22344),

Gene: Atiba_28 Start: 23285, Stop: 24298, Start Num: 73

Candidate Starts for Atiba_28:
(17, 22841), (28, 22988), (62, 23240), (Start: 73 @23285 has 102 MA's), (130, 23417), (165, 23510), (221, 23627), (246, 23669), (254, 23681), (314, 23735), (336, 23813), (361, 23909), (377, 23951), (380, 23960), (411, 24074), (443, 24143),

Gene: AuntGwenStacy_28 Start: 26025, Stop: 27062, Start Num: 76
Candidate Starts for AuntGwenStacy_28:
(Start: 76 @26025 has 170 MA's), (123, 26148), (147, 26202), (159, 26238), (187, 26301), (218, 26349), (249, 26403), (251, 26406), (336, 26592), (342, 26628), (356, 26670), (361, 26688), (380, 26739),

Gene: Auspice_31 Start: 26992, Stop: 28047, Start Num: 76
Candidate Starts for Auspice_31:
(Start: 76 @26992 has 170 MA's), (159, 27205), (171, 27241), (212, 27304), (251, 27376), (267, 27406), (279, 27427), (307, 27463), (317, 27499), (331, 27547), (336, 27568), (339, 27574), (342, 27604), (343, 27607), (358, 27655), (431, 27865), (450, 27919),

Gene: Avian_30 Start: 27503, Stop: 28600, Start Num: 93
Candidate Starts for Avian_30:
(Start: 93 @27503 has 33 MA's), (143, 27617), (183, 27710), (201, 27743), (203, 27746), (205, 27749), (212, 27767), (213, 27770), (244, 27830), (272, 27881), (278, 27893), (286, 27905), (295, 27947), (325, 28043), (335, 28085), (393, 28319), (413, 28358), (446, 28445), (478, 28592),

Gene: Ayotoya_27 Start: 24101, Stop: 25168, Start Num: 100
Candidate Starts for Ayotoya_27:
(Start: 100 @24101 has 14 MA's), (276, 24479), (323, 24620), (328, 24635), (331, 24647), (337, 24671), (357, 24755), (359, 24761), (370, 24794), (375, 24806), (406, 24902), (407, 24905), (413, 24926),

Gene: BEEST_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for BEEST_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (Start: 117 @23467 has 3 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (366, 23992), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: BGlluviae_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for BGlluviae_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Babsiella_22 Start: 21313, Stop: 22350, Start Num: 76
Candidate Starts for Babsiella_22:
(68, 21289), (Start: 73 @21310 has 102 MA's), (Start: 76 @21313 has 170 MA's), (85, 21337), (142, 21475), (156, 21517), (181, 21586), (218, 21646), (243, 21691), (267, 21736), (314, 21817), (331, 21874), (337, 21898), (366, 22003), (385, 22075), (403, 22120), (465, 22285),

Gene: BabyMoney_29 Start: 25948, Stop: 27033, Start Num: 96
Candidate Starts for BabyMoney_29:
(12, 25351), (15, 25438), (31, 25636), (Start: 96 @25948 has 5 MA's), (140, 26053), (161, 26116), (173, 26158), (212, 26236), (257, 26320), (276, 26350), (297, 26413), (331, 26521), (366, 26653),

Gene: Badfish_33 Start: 32386, Stop: 33546, Start Num: 48

Candidate Starts for Badfish_33:
(Start: 48 @32386 has 84 MA's), (81, 32497), (101, 32542), (138, 32641), (159, 32701), (170, 32737), (179, 32761), (204, 32806), (209, 32812), (237, 32863), (258, 32902), (259, 32905), (265, 32917), (275, 32932), (305, 32956), (314, 32989), (336, 33070), (344, 33115), (361, 33163), (374, 33199), (378, 33208), (380, 33214), (459, 33439),

Gene: BaghaKamala_28 Start: 23285, Stop: 24298, Start Num: 73
Candidate Starts for BaghaKamala_28:
(17, 22841), (62, 23240), (Start: 73 @23285 has 102 MA's), (Start: 117 @23396 has 3 MA's), (165, 23510), (221, 23627), (246, 23669), (254, 23681), (314, 23735), (336, 23813), (361, 23909), (366, 23921), (377, 23951), (380, 23960), (411, 24074), (443, 24143),

Gene: Bananafish_33 Start: 32686, Stop: 33855, Start Num: 46
Candidate Starts for Bananafish_33:
(29, 32545), (Start: 46 @32686 has 10 MA's), (Start: 48 @32692 has 84 MA's), (56, 32731), (64, 32761), (81, 32806), (101, 32851), (138, 32950), (159, 33010), (170, 33046), (179, 33070), (204, 33115), (209, 33121), (237, 33172), (258, 33211), (259, 33214), (265, 33226), (275, 33241), (305, 33265), (314, 33298), (336, 33379), (361, 33472), (374, 33508), (378, 33517), (380, 33523), (459, 33748),

Gene: BananenDer11_27 Start: 24040, Stop: 25104, Start Num: 76
Candidate Starts for BananenDer11_27:
(Start: 76 @24040 has 170 MA's), (110, 24130), (120, 24157), (147, 24220), (165, 24268), (177, 24307), (188, 24325), (218, 24370), (239, 24409), (267, 24457), (277, 24475), (317, 24550), (337, 24616), (359, 24706), (360, 24709), (361, 24712), (372, 24745), (394, 24844), (395, 24847), (432, 24931), (437, 24943), (470, 25060),

Gene: Barnyard_37 Start: 29858, Stop: 30898, Start Num: 72
Candidate Starts for Barnyard_37:
(37, 29684), (66, 29834), (Start: 72 @29858 has 4 MA's), (145, 30035), (163, 30089), (212, 30188), (249, 30254), (251, 30257), (256, 30266), (300, 30308), (330, 30389), (332, 30401), (361, 30506), (375, 30545), (395, 30635), (407, 30656), (434, 30725), (443, 30740), (475, 30878), (476, 30881), (477, 30884),

Gene: BarrelRoll_28 Start: 23308, Stop: 24321, Start Num: 73
Candidate Starts for BarrelRoll_28:
(17, 22864), (62, 23263), (Start: 73 @23308 has 102 MA's), (Start: 117 @23419 has 3 MA's), (165, 23533), (221, 23650), (246, 23692), (254, 23704), (314, 23758), (336, 23836), (361, 23932), (377, 23974), (380, 23983), (411, 24097), (443, 24166),

Gene: Bartholomew_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for Bartholomew_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: Beaver_33 Start: 37866, Stop: 38768, Start Num: 137
Candidate Starts for Beaver_33:
(Start: 137 @37866 has 35 MA's), (193, 38001), (206, 38031), (211, 38043), (231, 38076), (261, 38127), (301, 38175), (314, 38211), (337, 38292), (353, 38343), (354, 38346), (379, 38436), (429, 38583), (475, 38751),

Gene: Beezoo_28 Start: 23333, Stop: 24346, Start Num: 73

Candidate Starts for Beezoo_28:
(Start: 73 @23333 has 102 MA's), (Start: 117 @23444 has 3 MA's), (165, 23558), (176, 23597), (221, 23675), (246, 23717), (254, 23729), (314, 23783), (336, 23861), (357, 23945), (361, 23957), (366, 23969), (380, 24008), (411, 24122), (443, 24191),

Gene: Bella96_28 Start: 23266, Stop: 24279, Start Num: 73
Candidate Starts for Bella96_28:
(62, 23221), (Start: 73 @23266 has 102 MA's), (87, 23299), (Start: 117 @23377 has 3 MA's), (165, 23491), (221, 23608), (246, 23650), (254, 23662), (314, 23716), (336, 23794), (357, 23878), (361, 23890), (366, 23902), (369, 23914), (380, 23941), (387, 23977), (443, 24124), (468, 24220),

Gene: Belladonna_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Belladonna_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Bern_28 Start: 23278, Stop: 24291, Start Num: 73
Candidate Starts for Bern_28:
(44, 23140), (51, 23179), (56, 23209), (58, 23215), (Start: 73 @23278 has 102 MA's), (Start: 117 @23389 has 3 MA's), (165, 23503), (170, 23524), (221, 23620), (233, 23638), (246, 23662), (254, 23674), (314, 23728), (336, 23806), (361, 23902), (366, 23914), (380, 23953), (387, 23989), (443, 24136),

Gene: Berries_30 Start: 38356, Stop: 39258, Start Num: 137
Candidate Starts for Berries_30:
(Start: 137 @38356 has 35 MA's), (193, 38494), (223, 38563), (252, 38611), (301, 38674), (314, 38710), (358, 38878), (454, 39130), (473, 39235),

Gene: BetterKatz_27 Start: 23574, Stop: 24641, Start Num: 100
Candidate Starts for BetterKatz_27:
(Start: 100 @23574 has 14 MA's), (276, 23952), (323, 24093), (328, 24108), (331, 24120), (337, 24144), (339, 24147), (357, 24228), (406, 24375),

Gene: Bhagsy_22 Start: 21306, Stop: 22343, Start Num: 76
Candidate Starts for Bhagsy_22:
(68, 21282), (Start: 73 @21303 has 102 MA's), (Start: 76 @21306 has 170 MA's), (85, 21330), (142, 21468), (156, 21510), (181, 21579), (218, 21639), (243, 21684), (267, 21729), (314, 21810), (331, 21867), (337, 21891), (366, 21996), (385, 22068), (403, 22113), (465, 22278),

Gene: BiPauneto_47 Start: 34721, Stop: 35812, Start Num: 80
Candidate Starts for BiPauneto_47:
(Start: 80 @34721 has 33 MA's), (92, 34754), (129, 34850), (199, 35033), (232, 35102), (314, 35240), (318, 35252), (319, 35255),

Gene: Bianmat_30 Start: 38396, Stop: 39298, Start Num: 137
Candidate Starts for Bianmat_30:
(Start: 137 @38396 has 35 MA's), (193, 38534), (223, 38603), (252, 38651), (301, 38714), (314, 38750), (358, 38918), (454, 39170), (473, 39275),

Gene: BigNuz_22 Start: 21497, Stop: 22546, Start Num: 76
Candidate Starts for BigNuz_22:

(Start: 76 @21497 has 170 MA's), (84, 21518), (142, 21659), (153, 21689), (159, 21710), (187, 21773), (213, 21812), (308, 21971), (342, 22103), (374, 22199), (466, 22484),

Gene: Biglebops_24 Start: 22900, Stop: 23907, Start Num: 76
Candidate Starts for Biglebops_24:
(61, 22849), (65, 22861), (Start: 76 @22900 has 170 MA's), (103, 22960), (133, 23032), (153, 23086), (160, 23107), (221, 23236), (247, 23281), (251, 23284), (313, 23341), (314, 23344), (328, 23389), (337, 23425), (361, 23521), (366, 23533), (397, 23653), (452, 23785),

Gene: BillyBobJr_34 Start: 37893, Stop: 38795, Start Num: 137
Candidate Starts for BillyBobJr_34:
(Start: 137 @37893 has 35 MA's), (207, 38061), (223, 38097), (236, 38112), (243, 38127), (252, 38139), (314, 38238), (337, 38319), (354, 38373), (429, 38610), (469, 38736), (475, 38778),

Gene: Bipper_28 Start: 26155, Stop: 27216, Start Num: 76
Candidate Starts for Bipper_28:
(Start: 76 @26155 has 170 MA's), (132, 26293), (141, 26314), (142, 26317), (158, 26365), (159, 26368), (188, 26443), (218, 26488), (243, 26530), (245, 26533), (254, 26551), (267, 26575), (274, 26587), (279, 26596), (297, 26602), (337, 26734), (359, 26824), (380, 26881), (388, 26917), (398, 26956), (430, 27037), (475, 27199),

Gene: BirksAndSocks_33 Start: 37840, Stop: 38742, Start Num: 137
Candidate Starts for BirksAndSocks_33:
(Start: 137 @37840 has 35 MA's), (207, 38008), (223, 38044), (236, 38059), (243, 38074), (252, 38086), (314, 38185), (337, 38266), (354, 38320), (429, 38557), (469, 38683), (475, 38725),

Gene: BirthdayBoy_34 Start: 29543, Stop: 30589, Start Num: 93
Candidate Starts for BirthdayBoy_34:
(Start: 93 @29543 has 33 MA's), (143, 29657), (151, 29678), (157, 29699), (173, 29753), (181, 29768), (288, 29966), (307, 30032), (311, 30044), (331, 30113), (371, 30254),

Gene: Blizzard_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Blizzard_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (Start: 117 @23467 has 3 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (366, 23992), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Blocker23_33 Start: 32804, Stop: 33973, Start Num: 46
Candidate Starts for Blocker23_33:
(29, 32663), (Start: 46 @32804 has 10 MA's), (Start: 48 @32810 has 84 MA's), (56, 32849), (64, 32879), (81, 32924), (101, 32969), (138, 33068), (159, 33128), (170, 33164), (179, 33188), (204, 33233), (209, 33239), (237, 33290), (258, 33329), (259, 33332), (265, 33344), (275, 33359), (305, 33383), (314, 33416), (336, 33497), (361, 33590), (374, 33626), (378, 33635), (380, 33641), (459, 33866),

Gene: Bluvara_22 Start: 21380, Stop: 22417, Start Num: 76
Candidate Starts for Bluvara_22:
(68, 21356), (Start: 73 @21377 has 102 MA's), (Start: 76 @21380 has 170 MA's), (85, 21404), (142, 21542), (156, 21584), (181, 21653), (218, 21713), (243, 21758), (267, 21803), (314, 21884), (331, 21941), (337, 21965), (366, 22070), (385, 22142), (403, 22187),

Gene: Bobquesha_30 Start: 24333, Stop: 25337, Start Num: 76
Candidate Starts for Bobquesha_30:

(Start: 76 @24333 has 170 MA's), (146, 24501), (162, 24546), (165, 24552), (185, 24606), (237, 24696), (247, 24717), (254, 24726), (336, 24858), (337, 24861), (378, 24999), (390, 25068), (465, 25272),

Gene: Bock_27 Start: 23324, Stop: 24391, Start Num: 100
Candidate Starts for Bock_27:
(Start: 100 @23324 has 14 MA's), (276, 23702), (323, 23843), (328, 23858), (337, 23894), (357, 23978), (406, 24125),

Gene: Boehler_33 Start: 32374, Stop: 33534, Start Num: 48
Candidate Starts for Boehler_33:
(Start: 48 @32374 has 84 MA's), (81, 32485), (101, 32530), (138, 32629), (159, 32689), (170, 32725), (179, 32749), (204, 32794), (209, 32800), (237, 32851), (258, 32890), (259, 32893), (265, 32905), (275, 32920), (305, 32944), (314, 32977), (336, 33058), (344, 33103), (361, 33151), (374, 33187), (378, 33196), (380, 33202), (459, 33427),

Gene: Boiiii_28 Start: 23358, Stop: 24371, Start Num: 73
Candidate Starts for Boiiii_28:
(17, 22914), (62, 23313), (Start: 73 @23358 has 102 MA's), (Start: 117 @23469 has 3 MA's), (165, 23583), (221, 23700), (246, 23742), (254, 23754), (314, 23808), (336, 23886), (361, 23982), (366, 23994), (377, 24024), (380, 24033), (411, 24147), (443, 24216),

Gene: Boneham_33 Start: 37839, Stop: 38741, Start Num: 137
Candidate Starts for Boneham_33:
(Start: 137 @37839 has 35 MA's), (207, 38007), (223, 38043), (236, 38058), (243, 38073), (252, 38085), (314, 38184), (337, 38265), (354, 38319), (429, 38556), (469, 38682), (475, 38724),

Gene: Bongo_31 Start: 26992, Stop: 28047, Start Num: 76
Candidate Starts for Bongo_31:
(Start: 76 @26992 has 170 MA's), (159, 27205), (171, 27241), (212, 27304), (251, 27376), (267, 27406), (279, 27427), (307, 27463), (317, 27499), (331, 27547), (336, 27568), (339, 27574), (342, 27604), (343, 27607), (358, 27655), (423, 27844), (431, 27865), (450, 27919),

Gene: Bonum_48 Start: 35639, Stop: 36694, Start Num: 80
Candidate Starts for Bonum_48:
(60, 35576), (Start: 80 @35639 has 33 MA's), (160, 35852), (182, 35909), (246, 36035), (366, 36323), (473, 36668),

Gene: BoostSeason_25 Start: 21308, Stop: 22333, Start Num: 76
Candidate Starts for BoostSeason_25:
(47, 21224), (Start: 76 @21308 has 170 MA's), (Start: 115 @21413 has 1 MA's), (143, 21473), (162, 21527), (165, 21533), (199, 21614), (202, 21620), (212, 21635), (213, 21638), (339, 21842), (472, 22301), (473, 22310),

Gene: Boyle_33 Start: 32811, Stop: 33974, Start Num: 48
Candidate Starts for Boyle_33:
(29, 32664), (Start: 46 @32805 has 10 MA's), (Start: 48 @32811 has 84 MA's), (56, 32850), (64, 32880), (81, 32925), (101, 32970), (138, 33069), (159, 33129), (170, 33165), (179, 33189), (204, 33234), (209, 33240), (237, 33291), (258, 33330), (259, 33333), (265, 33345), (275, 33360), (305, 33384), (314, 33417), (336, 33498), (344, 33543), (361, 33591), (374, 33627), (378, 33636), (380, 33642), (391, 33702), (459, 33867),

Gene: Bricole_31 Start: 26978, Stop: 28033, Start Num: 76

Candidate Starts for Bricole_31:
(Start: 76 @26978 has 170 MA's), (159, 27191), (171, 27227), (212, 27290), (251, 27362), (267, 27392), (279, 27413), (307, 27449), (317, 27485), (331, 27533), (336, 27554), (339, 27560), (342, 27590), (343, 27593), (358, 27641), (423, 27830), (431, 27851), (450, 27905),

Gene: Bromden_23 Start: 22120, Stop: 23205, Start Num: 76
Candidate Starts for Bromden_23:
(Start: 76 @22120 has 170 MA's), (81, 22132), (171, 22375), (189, 22411), (210, 22450), (215, 22459), (228, 22483), (302, 22594), (310, 22609), (339, 22711), (350, 22756), (366, 22810), (380, 22849), (457, 23092),

Gene: BronnyJr_22 Start: 21730, Stop: 22797, Start Num: 76
Candidate Starts for BronnyJr_22:
(Start: 73 @21727 has 102 MA's), (Start: 76 @21730 has 170 MA's), (142, 21892), (156, 21934), (181, 22003), (218, 22063), (243, 22108), (267, 22153), (312, 22222), (314, 22234), (331, 22291), (337, 22315), (379, 22453), (380, 22456),

Gene: Brownie5_33 Start: 32811, Stop: 33980, Start Num: 46
Candidate Starts for Brownie5_33:
(29, 32670), (Start: 46 @32811 has 10 MA's), (Start: 48 @32817 has 84 MA's), (56, 32856), (64, 32886), (81, 32931), (101, 32976), (138, 33075), (159, 33135), (170, 33171), (179, 33195), (204, 33240), (209, 33246), (237, 33297), (258, 33336), (259, 33339), (265, 33351), (275, 33366), (305, 33390), (314, 33423), (336, 33504), (361, 33597), (374, 33633), (378, 33642), (380, 33648), (391, 33708), (459, 33873),

Gene: Brusacoram_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for Brusacoram_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: Bryler_28 Start: 22694, Stop: 23755, Start Num: 76
Candidate Starts for Bryler_28:
(Start: 76 @22694 has 170 MA's), (109, 22772), (110, 22775), (Start: 115 @22793 has 1 MA's), (160, 22901), (169, 22928), (170, 22934), (221, 23030), (230, 23042), (300, 23144), (313, 23195), (341, 23312), (418, 23555), (426, 23573), (443, 23612),

Gene: Brylie_27 Start: 23315, Stop: 24382, Start Num: 100
Candidate Starts for Brylie_27:
(Start: 100 @23315 has 14 MA's), (180, 23525), (276, 23693), (323, 23834), (328, 23849), (331, 23861), (337, 23885), (357, 23969), (369, 24005), (406, 24116),

Gene: Buggaboo_46 Start: 36118, Stop: 37173, Start Num: 80
Candidate Starts for Buggaboo_46:
(Start: 80 @36118 has 33 MA's), (160, 36331), (246, 36514), (366, 36802), (473, 37147),

Gene: Bunnies_22 Start: 21321, Stop: 22358, Start Num: 76
Candidate Starts for Bunnies_22:
(68, 21297), (Start: 73 @21318 has 102 MA's), (Start: 76 @21321 has 170 MA's), (85, 21345), (142, 21483), (156, 21525), (181, 21594), (218, 21654), (243, 21699), (267, 21744), (314, 21825), (331, 21882), (337, 21906), (366, 22011), (385, 22083), (403, 22128), (465, 22293),

Gene: Butterball_33 Start: 37839, Stop: 38741, Start Num: 137

Candidate Starts for Butterball_33:
(Start: 137 @37839 has 35 MA's), (207, 38007), (223, 38043), (236, 38058), (243, 38073), (252, 38085), (314, 38184), (337, 38265), (354, 38319), (429, 38556), (469, 38682), (475, 38724),

Gene: Butters_22 Start: 19998, Stop: 21038, Start Num: 74
Candidate Starts for Butters_22:
(55, 19932), (Start: 74 @19998 has 5 MA's), (140, 20157), (142, 20163), (178, 20271), (181, 20274), (191, 20289), (243, 20379), (267, 20424), (314, 20505), (331, 20562), (337, 20586), (359, 20673), (366, 20691), (385, 20763), (403, 20808), (465, 20973),

Gene: CREW_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for CREW_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: CactusJack_22 Start: 21561, Stop: 22601, Start Num: 76
Candidate Starts for CactusJack_22:
(Start: 76 @21561 has 170 MA's), (140, 21720), (142, 21726), (156, 21768), (178, 21834), (181, 21837), (218, 21897), (243, 21942), (267, 21987), (314, 22068), (331, 22125), (337, 22149), (366, 22254), (385, 22326), (403, 22371),

Gene: Cain_28 Start: 22682, Stop: 23743, Start Num: 76
Candidate Starts for Cain_28:
(Start: 76 @22682 has 170 MA's), (109, 22760), (110, 22763), (Start: 115 @22781 has 1 MA's), (160, 22889), (169, 22916), (170, 22922), (221, 23018), (230, 23030), (300, 23132), (313, 23183), (341, 23300), (418, 23543), (426, 23561), (443, 23600),

Gene: Calamitous_33 Start: 32697, Stop: 33860, Start Num: 48
Candidate Starts for Calamitous_33:
(29, 32550), (Start: 46 @32691 has 10 MA's), (Start: 48 @32697 has 84 MA's), (56, 32736), (64, 32766), (81, 32811), (101, 32856), (138, 32955), (159, 33015), (170, 33051), (179, 33075), (204, 33120), (209, 33126), (237, 33177), (258, 33216), (259, 33219), (265, 33231), (275, 33246), (305, 33270), (314, 33303), (336, 33384), (361, 33477), (374, 33513), (378, 33522), (380, 33528), (459, 33753),

Gene: CallaLilly_28 Start: 23279, Stop: 24292, Start Num: 73
Candidate Starts for CallaLilly_28:
(17, 22835), (62, 23234), (Start: 73 @23279 has 102 MA's), (165, 23504), (221, 23621), (246, 23663), (254, 23675), (314, 23729), (336, 23807), (361, 23903), (377, 23945), (380, 23954), (411, 24068), (443, 24137),

Gene: Camster_22 Start: 21300, Stop: 22367, Start Num: 76
Candidate Starts for Camster_22:
(68, 21276), (Start: 73 @21297 has 102 MA's), (Start: 76 @21300 has 170 MA's), (85, 21324), (142, 21462), (156, 21504), (181, 21573), (218, 21633), (243, 21678), (267, 21723), (312, 21792), (314, 21804), (331, 21861), (337, 21885), (384, 22056),

Gene: Capricorn_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Capricorn_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: CaseJules_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for CaseJules_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (Start: 117 @23467 has 3 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (366, 23992), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Chancellor_29 Start: 24596, Stop: 25600, Start Num: 76
Candidate Starts for Chancellor_29:
(Start: 76 @24596 has 170 MA's), (146, 24764), (162, 24809), (165, 24815), (185, 24869), (191, 24878), (237, 24959), (247, 24980), (252, 24986), (254, 24989), (336, 25121), (337, 25124), (371, 25247),

Gene: Charianelly_30 Start: 38106, Stop: 39008, Start Num: 137
Candidate Starts for Charianelly_30:
(Start: 137 @38106 has 35 MA's), (193, 38244), (223, 38313), (252, 38361), (301, 38424), (314, 38460), (358, 38628), (454, 38880), (473, 38985),

Gene: CharlieGBrown_32 Start: 31944, Stop: 33104, Start Num: 48
Candidate Starts for CharlieGBrown_32:
(Start: 48 @31944 has 84 MA's), (81, 32055), (101, 32100), (138, 32199), (159, 32259), (170, 32295), (179, 32319), (204, 32364), (209, 32370), (237, 32421), (258, 32460), (259, 32463), (265, 32475), (275, 32490), (305, 32514), (314, 32547), (336, 32628), (344, 32673), (361, 32721), (374, 32757), (378, 32766), (380, 32772), (459, 32997),

Gene: Charminar_31 Start: 27114, Stop: 28211, Start Num: 93
Candidate Starts for Charminar_31:
(Start: 93 @27114 has 33 MA's), (143, 27228), (183, 27321), (201, 27354), (203, 27357), (205, 27360), (213, 27381), (218, 27393), (244, 27441), (278, 27504), (295, 27558), (325, 27654), (335, 27696), (368, 27822), (393, 27930), (413, 27969), (446, 28056), (478, 28203),

Gene: Chaser_21 Start: 21531, Stop: 22616, Start Num: 76
Candidate Starts for Chaser_21:
(Start: 76 @21531 has 170 MA's), (170, 21783), (189, 21822), (195, 21831), (196, 21834), (210, 21861), (215, 21870), (228, 21894), (256, 21945), (259, 21951), (302, 22005), (366, 22221), (380, 22260), (426, 22401), (439, 22434), (457, 22503),

Gene: Chavito_28 Start: 22750, Stop: 24003, Start Num: 34
Candidate Starts for Chavito_28:
(34, 22750), (35, 22756), (49, 22858), (63, 22921), (67, 22939), (Start: 117 @23074 has 3 MA's), (124, 23089), (140, 23125), (160, 23182), (162, 23188), (230, 23323), (239, 23341), (267, 23389), (312, 23407), (339, 23503), (359, 23584), (362, 23593), (377, 23632), (378, 23635), (439, 23833), (472, 23968),

Gene: Che9c_21 Start: 21007, Stop: 22053, Start Num: 76
Candidate Starts for Che9c_21:
(Start: 76 @21007 has 170 MA's), (159, 21220), (218, 21331), (243, 21373), (245, 21376), (282, 21445), (336, 21577), (342, 21613), (379, 21721), (431, 21874), (434, 21883), (440, 21895),

Gene: CheetoDust_28 Start: 23333, Stop: 24346, Start Num: 73
Candidate Starts for CheetoDust_28:
(17, 22889), (62, 23288), (Start: 73 @23333 has 102 MA's), (130, 23465), (165, 23558), (221, 23675), (246, 23717), (254, 23729), (314, 23783), (336, 23861), (361, 23957), (377, 23999), (380, 24008),

(411, 24122), (443, 24191),

Gene: Cheetobro_29 Start: 24593, Stop: 25597, Start Num: 76
Candidate Starts for Cheetobro_29:
(Start: 76 @24593 has 170 MA's), (146, 24761), (162, 24806), (165, 24812), (185, 24866), (191, 24875), (237, 24956), (247, 24977), (252, 24983), (254, 24986), (336, 25118), (337, 25121), (371, 25244),

Gene: CherryTomatoes_125 Start: 82351, Stop: 83241, Start Num: 135
Candidate Starts for CherryTomatoes_125:
(Start: 135 @82351 has 4 MA's), (443, 83086),

Gene: Childish_32 Start: 32094, Stop: 33254, Start Num: 48
Candidate Starts for Childish_32:
(Start: 48 @32094 has 84 MA's), (81, 32205), (101, 32250), (138, 32349), (159, 32409), (170, 32445), (179, 32469), (204, 32514), (209, 32520), (237, 32571), (258, 32610), (259, 32613), (265, 32625), (275, 32640), (305, 32664), (314, 32697), (336, 32778), (344, 32823), (361, 32871), (374, 32907), (378, 32916), (380, 32922), (459, 33147),

Gene: Chipette_34 Start: 32584, Stop: 33744, Start Num: 48
Candidate Starts for Chipette_34:
(Start: 48 @32584 has 84 MA's), (81, 32695), (101, 32740), (138, 32839), (159, 32899), (170, 32935), (179, 32959), (204, 33004), (209, 33010), (237, 33061), (258, 33100), (259, 33103), (265, 33115), (275, 33130), (305, 33154), (314, 33187), (336, 33268), (344, 33313), (361, 33361), (374, 33397), (378, 33406), (380, 33412), (459, 33637),

Gene: Chop_27 Start: 23849, Stop: 24916, Start Num: 100
Candidate Starts for Chop_27:
(Start: 100 @23849 has 14 MA's), (276, 24227), (323, 24368), (328, 24383), (331, 24395), (337, 24419), (357, 24503), (359, 24509), (370, 24542), (375, 24554), (406, 24650), (407, 24653), (413, 24674),

Gene: Chris_27 Start: 22610, Stop: 23596, Start Num: 76
Candidate Starts for Chris_27:
(Start: 76 @22610 has 170 MA's), (116, 22715), (145, 22778), (153, 22799), (165, 22832), (169, 22847), (197, 22907), (252, 23000), (277, 23039), (337, 23138), (352, 23189), (371, 23261), (380, 23282), (405, 23363), (449, 23465),

Gene: Chubbello_22 Start: 21298, Stop: 22335, Start Num: 76
Candidate Starts for Chubbello_22:
(68, 21274), (Start: 73 @21295 has 102 MA's), (Start: 76 @21298 has 170 MA's), (85, 21322), (142, 21460), (156, 21502), (181, 21571), (218, 21631), (243, 21676), (267, 21721), (314, 21802), (331, 21859), (337, 21883), (359, 21970), (366, 21988), (385, 22060), (403, 22105), (465, 22270),

Gene: Chuni_32 Start: 32385, Stop: 33545, Start Num: 48
Candidate Starts for Chuni_32:
(Start: 48 @32385 has 84 MA's), (81, 32496), (101, 32541), (138, 32640), (159, 32700), (170, 32736), (179, 32760), (204, 32805), (209, 32811), (237, 32862), (258, 32901), (259, 32904), (265, 32916), (275, 32931), (305, 32955), (314, 32988), (336, 33069), (344, 33114), (361, 33162), (374, 33198), (378, 33207), (380, 33213), (459, 33438),

Gene: CinnamonToast_34 Start: 37893, Stop: 38795, Start Num: 137
Candidate Starts for CinnamonToast_34:

(Start: 137 @37893 has 35 MA's), (207, 38061), (223, 38097), (236, 38112), (243, 38127), (252, 38139), (314, 38238), (337, 38319), (354, 38373), (429, 38610), (469, 38736), (475, 38778),

Gene: Clipper_28 Start: 23333, Stop: 24346, Start Num: 73
Candidate Starts for Clipper_28:
(17, 22889), (62, 23288), (Start: 73 @23333 has 102 MA's), (Start: 117 @23444 has 3 MA's), (165, 23558), (221, 23675), (246, 23717), (254, 23729), (314, 23783), (336, 23861), (357, 23945), (361, 23957), (366, 23969), (377, 23999), (380, 24008), (411, 24122), (443, 24191),

Gene: Cobra_33 Start: 32375, Stop: 33535, Start Num: 48
Candidate Starts for Cobra_33:
(Start: 48 @32375 has 84 MA's), (81, 32486), (101, 32531), (138, 32630), (159, 32690), (170, 32726), (179, 32750), (204, 32795), (209, 32801), (237, 32852), (258, 32891), (259, 32894), (265, 32906), (275, 32921), (305, 32945), (314, 32978), (336, 33059), (344, 33104), (361, 33152), (374, 33188), (378, 33197), (380, 33203), (459, 33428),

Gene: Coffee_33 Start: 32800, Stop: 33963, Start Num: 48
Candidate Starts for Coffee_33:
(29, 32653), (Start: 46 @32794 has 10 MA's), (Start: 48 @32800 has 84 MA's), (56, 32839), (64, 32869), (81, 32914), (101, 32959), (138, 33058), (159, 33118), (170, 33154), (179, 33178), (204, 33223), (209, 33229), (237, 33280), (258, 33319), (259, 33322), (265, 33334), (275, 33349), (305, 33373), (314, 33406), (336, 33487), (361, 33580), (374, 33616), (378, 33625), (380, 33631), (459, 33856),

Gene: Collard_27 Start: 24040, Stop: 25104, Start Num: 76
Candidate Starts for Collard_27:
(Start: 76 @24040 has 170 MA's), (110, 24130), (120, 24157), (147, 24220), (165, 24268), (177, 24307), (188, 24325), (218, 24370), (239, 24409), (267, 24457), (277, 24475), (317, 24550), (337, 24616), (359, 24706), (360, 24709), (361, 24712), (372, 24745), (394, 24844), (395, 24847), (432, 24931), (437, 24943), (470, 25060),

Gene: Commandaria_46 Start: 36317, Stop: 37420, Start Num: 80
Candidate Starts for Commandaria_46:
(Start: 80 @36317 has 33 MA's), (129, 36446), (141, 36476), (314, 36836), (337, 36917), (428, 37220),

Gene: Cornbread_32 Start: 32091, Stop: 33251, Start Num: 48
Candidate Starts for Cornbread_32:
(Start: 48 @32091 has 84 MA's), (81, 32202), (101, 32247), (138, 32346), (159, 32406), (170, 32442), (179, 32466), (204, 32511), (209, 32517), (237, 32568), (258, 32607), (259, 32610), (265, 32622), (275, 32637), (305, 32661), (314, 32694), (336, 32775), (344, 32820), (361, 32868), (374, 32904), (378, 32913), (380, 32919), (459, 33144),

Gene: Cosmolli16_32 Start: 32088, Stop: 33239, Start Num: 48
Candidate Starts for Cosmolli16_32:
(Start: 48 @32088 has 84 MA's), (81, 32199), (101, 32244), (138, 32343), (159, 32403), (170, 32439), (179, 32463), (204, 32508), (209, 32514), (237, 32565), (249, 32589), (258, 32604), (259, 32607), (265, 32619), (275, 32634), (305, 32658), (314, 32691), (336, 32772), (344, 32817), (361, 32865), (374, 32901), (378, 32910), (380, 32916), (459, 33141),

Gene: Cracklewink_28 Start: 26155, Stop: 27216, Start Num: 76
Candidate Starts for Cracklewink_28:
(Start: 76 @26155 has 170 MA's), (132, 26293), (141, 26314), (142, 26317), (158, 26365), (159, 26368), (188, 26443), (218, 26488), (243, 26530), (245, 26533), (254, 26551), (267, 26575), (274,

26587), (279, 26596), (297, 26602), (337, 26734), (359, 26824), (380, 26881), (398, 26956), (430, 27037), (475, 27199),

Gene: Craff_33 Start: 32372, Stop: 33532, Start Num: 48
Candidate Starts for Craff_33:
(Start: 48 @32372 has 84 MA's), (81, 32483), (101, 32528), (138, 32627), (159, 32687), (170, 32723), (179, 32747), (204, 32792), (209, 32798), (237, 32849), (258, 32888), (259, 32891), (265, 32903), (275, 32918), (305, 32942), (314, 32975), (336, 33056), (344, 33101), (361, 33149), (374, 33185), (378, 33194), (380, 33200), (459, 33425),

Gene: CrimD_28 Start: 23294, Stop: 24307, Start Num: 73
Candidate Starts for CrimD_28:
(Start: 73 @23294 has 102 MA's), (Start: 117 @23405 has 3 MA's), (165, 23519), (221, 23636), (246, 23678), (254, 23690), (314, 23744), (336, 23822), (357, 23906), (361, 23918), (366, 23930), (380, 23969), (468, 24248),

Gene: Curiosium_29 Start: 23069, Stop: 24148, Start Num: 76
Candidate Starts for Curiosium_29:
(Start: 76 @23069 has 170 MA's), (86, 23096), (118, 23183), (140, 23228), (145, 23243), (147, 23249), (156, 23276), (161, 23291), (177, 23336), (178, 23339), (187, 23351), (198, 23372), (218, 23399), (230, 23420), (267, 23486), (331, 23630), (336, 23651), (339, 23657), (389, 23855), (402, 23888), (405, 23897),

Gene: Dadosky_28 Start: 24011, Stop: 25075, Start Num: 76
Candidate Starts for Dadosky_28:
(Start: 76 @24011 has 170 MA's), (110, 24101), (121, 24131), (145, 24185), (147, 24191), (165, 24239), (177, 24278), (188, 24296), (191, 24299), (239, 24380), (267, 24428), (277, 24446), (337, 24587), (359, 24677), (360, 24680), (361, 24683), (372, 24716), (378, 24728), (394, 24815), (395, 24818), (437, 24914), (470, 25031),

Gene: Dalilpop_49 Start: 37250, Stop: 38311, Start Num: 79
Candidate Starts for Dalilpop_49:
(Start: 79 @37250 has 3 MA's), (Start: 117 @37358 has 3 MA's), (140, 37409), (149, 37436), (164, 37481), (195, 37544), (234, 37628), (245, 37649), (250, 37655), (267, 37682), (269, 37685), (356, 37910), (473, 38285),

Gene: Dalmuri_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Dalmuri_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Damp_30 Start: 37270, Stop: 38172, Start Num: 137
Candidate Starts for Damp_30:
(Start: 137 @37270 has 35 MA's), (193, 37408), (223, 37477), (252, 37525), (301, 37588), (314, 37624), (358, 37792), (447, 38026), (454, 38044), (473, 38149),

Gene: DanSyl44_30 Start: 25030, Stop: 26100, Start Num: 76
Candidate Starts for DanSyl44_30:
(Start: 73 @25027 has 102 MA's), (Start: 76 @25030 has 170 MA's), (168, 25270), (181, 25306), (187, 25315), (191, 25321), (218, 25366), (243, 25411), (252, 25429), (267, 25456), (314, 25537), (331, 25594), (337, 25618),

Gene: Daredevil_37 Start: 34603, Stop: 35670, Start Num: 78
Candidate Starts for Daredevil_37:
(Start: 78 @34603 has 2 MA's), (219, 34948), (243, 34993), (260, 35023), (373, 35314), (376, 35320),
(381, 35338), (394, 35404), (396, 35407), (409, 35425), (424, 35473), (477, 35659),

Gene: DartGoblin_28 Start: 23374, Stop: 24276, Start Num: 117
Candidate Starts for DartGoblin_28:
(62, 23218), (Start: 73 @23263 has 102 MA's), (87, 23296), (Start: 117 @23374 has 3 MA's), (165,
23488), (221, 23605), (246, 23647), (254, 23659), (314, 23713), (336, 23791), (357, 23875), (361,
23887), (366, 23899), (380, 23938), (387, 23974), (443, 24121), (468, 24217),

Gene: DarthP_27 Start: 23700, Stop: 24704, Start Num: 73
Candidate Starts for DarthP_27:
(Start: 73 @23700 has 102 MA's), (221, 24042), (321, 24174), (330, 24201), (359, 24315), (405,
24468), (443, 24561), (444, 24564), (461, 24627), (465, 24639),

Gene: Dartin_28 Start: 22728, Stop: 23693, Start Num: 73
Candidate Starts for Dartin_28:
(Start: 73 @22728 has 102 MA's), (77, 22734), (140, 22887), (146, 22905), (153, 22923), (165, 22956),
(177, 22998), (212, 23058), (221, 23073), (336, 23259), (337, 23262), (356, 23334), (380, 23403),
(392, 23451), (399, 23466), (414, 23499), (434, 23538), (467, 23637),

Gene: DaviePasture_33 Start: 29342, Stop: 30391, Start Num: 93
Candidate Starts for DaviePasture_33:
(Start: 93 @29342 has 33 MA's), (143, 29456), (151, 29477), (173, 29552), (181, 29567), (212, 29630),
(307, 29831), (314, 29855), (362, 30026), (439, 30239), (445, 30254), (456, 30299),

Gene: Deby_28 Start: 23290, Stop: 24303, Start Num: 73
Candidate Starts for Deby_28:
(Start: 73 @23290 has 102 MA's), (Start: 117 @23401 has 3 MA's), (165, 23515), (221, 23632), (254,
23686), (314, 23740), (336, 23818), (361, 23914), (366, 23926), (377, 23956), (380, 23965), (411,
24079), (443, 24148),

Gene: DelRio_28 Start: 24323, Stop: 25387, Start Num: 100
Candidate Starts for DelRio_28:
(Start: 100 @24323 has 14 MA's), (276, 24701), (323, 24842), (328, 24854), (331, 24866), (337,
24890), (357, 24974), (370, 25013), (406, 25121),

Gene: Demikore_38 Start: 32041, Stop: 33081, Start Num: 98
Candidate Starts for Demikore_38:
(Start: 98 @32041 has 3 MA's), (130, 32119), (158, 32197), (272, 32410), (276, 32416), (303, 32494),
(331, 32587), (339, 32614),

Gene: Derpp_32 Start: 31933, Stop: 33093, Start Num: 48
Candidate Starts for Derpp_32:
(Start: 48 @31933 has 84 MA's), (81, 32044), (101, 32089), (138, 32188), (159, 32248), (170, 32284),
(179, 32308), (204, 32353), (209, 32359), (237, 32410), (258, 32449), (259, 32452), (265, 32464),
(275, 32479), (305, 32503), (314, 32536), (336, 32617), (344, 32662), (361, 32710), (374, 32746),
(378, 32755), (380, 32761), (459, 32986),

Gene: Devera_28 Start: 23337, Stop: 24350, Start Num: 73
Candidate Starts for Devera_28:

(Start: 73 @23337 has 102 MA's), (Start: 117 @23448 has 3 MA's), (122, 23457), (165, 23562), (209, 23658), (221, 23679), (246, 23721), (254, 23733), (314, 23787), (336, 23865), (361, 23961), (366, 23973), (380, 24012), (411, 24126), (443, 24195), (468, 24291),

Gene: Diabla_32 Start: 37690, Stop: 38598, Start Num: 137
Candidate Starts for Diabla_32:
(Start: 137 @37690 has 35 MA's), (193, 37825), (252, 37942), (301, 38005), (314, 38041), (358, 38209), (473, 38575), (475, 38581),

Gene: Diminimus_32 Start: 26991, Stop: 28046, Start Num: 76
Candidate Starts for Diminimus_32:
(Start: 76 @26991 has 170 MA's), (159, 27204), (171, 27240), (212, 27303), (251, 27375), (267, 27405), (279, 27426), (307, 27462), (317, 27498), (331, 27546), (336, 27567), (339, 27573), (342, 27603), (343, 27606), (358, 27654), (431, 27864), (450, 27918),

Gene: DismalFunk_25 Start: 21282, Stop: 22277, Start Num: 76
Candidate Starts for DismalFunk_25:
(25, 20961), (33, 21099), (47, 21198), (Start: 76 @21282 has 170 MA's), (108, 21363), (Start: 115 @21387 has 1 MA's), (143, 21447), (162, 21501), (165, 21507), (212, 21609), (213, 21612), (243, 21660), (246, 21666), (270, 21708), (314, 21732), (339, 21816), (359, 21900), (380, 21957), (473, 22254),

Gene: DismalStressor_25 Start: 21282, Stop: 22277, Start Num: 76
Candidate Starts for DismalStressor_25:
(33, 21099), (47, 21198), (Start: 76 @21282 has 170 MA's), (108, 21363), (Start: 115 @21387 has 1 MA's), (143, 21447), (162, 21501), (165, 21507), (212, 21609), (213, 21612), (243, 21660), (246, 21666), (270, 21708), (314, 21732), (339, 21816), (359, 21900), (380, 21957), (473, 22254),

Gene: Dogfish_30 Start: 26617, Stop: 27699, Start Num: 99
Candidate Starts for Dogfish_30:
(Start: 99 @26617 has 1 MA's), (173, 26827), (212, 26905), (240, 26959), (266, 27004), (292, 27061), (293, 27067), (314, 27130), (331, 27187), (335, 27202), (366, 27319),

Gene: Dole_28 Start: 23339, Stop: 24352, Start Num: 73
Candidate Starts for Dole_28:
(Start: 73 @23339 has 102 MA's), (Start: 117 @23450 has 3 MA's), (122, 23459), (165, 23564), (209, 23660), (221, 23681), (246, 23723), (254, 23735), (314, 23789), (336, 23867), (361, 23963), (366, 23975), (380, 24014), (411, 24128), (443, 24197), (468, 24293),

Gene: Donovan_22 Start: 21288, Stop: 22325, Start Num: 76
Candidate Starts for Donovan_22:
(68, 21264), (Start: 73 @21285 has 102 MA's), (Start: 76 @21288 has 170 MA's), (85, 21312), (142, 21450), (156, 21492), (181, 21561), (218, 21621), (243, 21666), (267, 21711), (314, 21792), (331, 21849), (337, 21873), (366, 21978), (385, 22050), (403, 22095), (465, 22260),

Gene: DoobyDoo_32 Start: 28492, Stop: 29541, Start Num: 93
Candidate Starts for DoobyDoo_32:
(Start: 93 @28492 has 33 MA's), (126, 28567), (143, 28606), (151, 28627), (173, 28702), (181, 28717), (212, 28780), (244, 28840), (293, 28942), (362, 29176), (445, 29404),

Gene: Dori_29 Start: 28828, Stop: 29994, Start Num: 46
Candidate Starts for Dori_29:

(Start: 46 @28828 has 10 MA's), (Start: 48 @28834 has 84 MA's), (50, 28846), (54, 28870), (56, 28873), (64, 28903), (81, 28948), (101, 28993), (102, 28996), (170, 29188), (179, 29212), (184, 29218), (200, 29251), (204, 29257), (209, 29263), (210, 29266), (237, 29314), (271, 29377), (273, 29380), (306, 29413), (329, 29488), (336, 29518), (371, 29641), (375, 29650), (378, 29656),

Gene: DoubleChamp_27 Start: 24040, Stop: 25104, Start Num: 76
Candidate Starts for DoubleChamp_27:
(Start: 76 @24040 has 170 MA's), (110, 24130), (120, 24157), (147, 24220), (165, 24268), (177, 24307), (188, 24325), (218, 24370), (239, 24409), (267, 24457), (277, 24475), (317, 24550), (337, 24616), (359, 24706), (360, 24709), (361, 24712), (372, 24745), (394, 24844), (395, 24847), (432, 24931), (437, 24943), (470, 25060),

Gene: Douge_21 Start: 21469, Stop: 22554, Start Num: 76
Candidate Starts for Douge_21:
(Start: 76 @21469 has 170 MA's), (107, 21547), (170, 21721), (189, 21760), (210, 21799), (228, 21832), (270, 21910), (302, 21943), (350, 22105), (426, 22339), (439, 22372), (447, 22396), (457, 22441),

Gene: Doughnut_25 Start: 21302, Stop: 22327, Start Num: 76
Candidate Starts for Doughnut_25:
(47, 21218), (Start: 76 @21302 has 170 MA's), (Start: 115 @21407 has 1 MA's), (143, 21467), (162, 21521), (165, 21527), (199, 21608), (202, 21614), (212, 21629), (213, 21632), (339, 21836), (472, 22295), (473, 22304),

Gene: DrHayes_28 Start: 23284, Stop: 24297, Start Num: 73
Candidate Starts for DrHayes_28:
(62, 23239), (Start: 73 @23284 has 102 MA's), (Start: 117 @23395 has 3 MA's), (165, 23509), (221, 23626), (246, 23668), (254, 23680), (314, 23734), (336, 23812), (361, 23908), (366, 23920), (380, 23959), (387, 23995), (443, 24142), (468, 24238),

Gene: DrLupo_39 Start: 30258, Stop: 31286, Start Num: 72
Candidate Starts for DrLupo_39:
(Start: 72 @30258 has 4 MA's), (129, 30393), (163, 30486), (221, 30609), (324, 30771), (330, 30786), (332, 30798), (361, 30900), (375, 30939), (398, 31032), (434, 31113), (443, 31128), (475, 31266),

Gene: Dulcita_32 Start: 26991, Stop: 28046, Start Num: 76
Candidate Starts for Dulcita_32:
(Start: 76 @26991 has 170 MA's), (159, 27204), (171, 27240), (212, 27303), (251, 27375), (267, 27405), (279, 27426), (307, 27462), (317, 27498), (331, 27546), (336, 27567), (339, 27573), (342, 27603), (343, 27606), (358, 27654), (431, 27864), (450, 27918),

Gene: DumpsterDude_23 Start: 21990, Stop: 23072, Start Num: 96
Candidate Starts for DumpsterDude_23:
(52, 21855), (Start: 96 @21990 has 5 MA's), (121, 22062), (173, 22200), (191, 22230), (244, 22338), (268, 22380), (292, 22434), (331, 22560),

Gene: Durfee_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Durfee_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (Start: 117 @23467 has 3 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (366, 23992), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Durga_33 Start: 32387, Stop: 33547, Start Num: 48

Candidate Starts for Durga_33:
(Start: 48 @32387 has 84 MA's), (81, 32498), (101, 32543), (138, 32642), (159, 32702), (170, 32738), (179, 32762), (204, 32807), (209, 32813), (237, 32864), (258, 32903), (259, 32906), (265, 32918), (275, 32933), (305, 32957), (314, 32990), (336, 33071), (344, 33116), (361, 33164), (374, 33200), (378, 33209), (380, 33215), (459, 33440),

Gene: Dynamo_22 Start: 21688, Stop: 22722, Start Num: 76
Candidate Starts for Dynamo_22:
(Start: 76 @21688 has 170 MA's), (140, 21844), (142, 21850), (178, 21958), (181, 21961), (191, 21976), (243, 22063), (267, 22108), (314, 22189), (331, 22246), (337, 22270), (366, 22375), (385, 22447), (403, 22492),

Gene: DyoEdafos_22 Start: 21679, Stop: 22761, Start Num: 76
Candidate Starts for DyoEdafos_22:
(Start: 76 @21679 has 170 MA's), (170, 21931), (189, 21970), (195, 21979), (196, 21982), (210, 22009), (215, 22018), (228, 22042), (258, 22096), (259, 22099), (302, 22153), (340, 22273), (343, 22306), (344, 22309), (366, 22369), (380, 22408), (382, 22423), (417, 22534), (439, 22582),

Gene: Eaglehorse_33 Start: 32724, Stop: 33887, Start Num: 48
Candidate Starts for Eaglehorse_33:
(29, 32577), (Start: 46 @32718 has 10 MA's), (Start: 48 @32724 has 84 MA's), (56, 32763), (64, 32793), (81, 32838), (101, 32883), (138, 32982), (159, 33042), (170, 33078), (179, 33102), (204, 33147), (209, 33153), (237, 33204), (258, 33243), (259, 33246), (265, 33258), (275, 33273), (305, 33297), (314, 33330), (336, 33411), (344, 33456), (361, 33504), (374, 33540), (378, 33549), (380, 33555), (459, 33780),

Gene: Edugator_27 Start: 24010, Stop: 25074, Start Num: 76
Candidate Starts for Edugator_27:
(Start: 76 @24010 has 170 MA's), (110, 24100), (121, 24130), (145, 24184), (147, 24190), (165, 24238), (177, 24277), (188, 24295), (191, 24298), (239, 24379), (267, 24427), (277, 24445), (337, 24586), (359, 24676), (360, 24679), (361, 24682), (372, 24715), (378, 24727), (394, 24814), (395, 24817), (470, 25030),

Gene: Efra2_28 Start: 22526, Stop: 23587, Start Num: 73
Candidate Starts for Efra2_28:
(Start: 73 @22526 has 102 MA's), (Start: 117 @22640 has 3 MA's), (165, 22754), (170, 22775), (210, 22853), (215, 22862), (230, 22883), (233, 22889), (320, 22997), (336, 23057), (363, 23177), (364, 23183), (365, 23189), (386, 23279), (430, 23405), (436, 23420),

Gene: Ekdilam_25 Start: 23459, Stop: 24463, Start Num: 73
Candidate Starts for Ekdilam_25:
(Start: 73 @23459 has 102 MA's), (153, 23651), (160, 23672), (170, 23705), (186, 23738), (221, 23801), (321, 23933), (330, 23960), (359, 24074), (405, 24227), (443, 24320), (461, 24386),

Gene: Ellie_25 Start: 23458, Stop: 24465, Start Num: 73
Candidate Starts for Ellie_25:
(Start: 73 @23458 has 102 MA's), (111, 23548), (Start: 117 @23569 has 3 MA's), (153, 23650), (165, 23683), (170, 23704), (337, 23989), (346, 24028), (461, 24388), (475, 24448),

Gene: ElvisPhasley_33 Start: 32409, Stop: 33569, Start Num: 48
Candidate Starts for ElvisPhasley_33:
(Start: 48 @32409 has 84 MA's), (81, 32520), (101, 32565), (138, 32664), (159, 32724), (170, 32760), (179, 32784), (204, 32829), (209, 32835), (237, 32886), (258, 32925), (259, 32928), (265, 32940),

(275, 32955), (305, 32979), (314, 33012), (336, 33093), (344, 33138), (361, 33186), (374, 33222), (378, 33231), (380, 33237), (459, 33462),

Gene: Emerson_28 Start: 23316, Stop: 24329, Start Num: 73
Candidate Starts for Emerson_28:
(17, 22872), (62, 23271), (Start: 73 @23316 has 102 MA's), (165, 23541), (221, 23658), (246, 23700), (254, 23712), (314, 23766), (336, 23844), (361, 23940), (366, 23952), (377, 23982), (380, 23991), (411, 24105), (443, 24174),

Gene: Emianna_44 Start: 35974, Stop: 37032, Start Num: 80
Candidate Starts for Emianna_44:
(1, 34534), (2, 34831), (5, 35062), (13, 35431), (40, 35809), (42, 35824), (Start: 46 @35842 has 10 MA's), (Start: 80 @35974 has 33 MA's), (217, 36319), (245, 36370), (277, 36418),

Gene: Emiris_33 Start: 32358, Stop: 33518, Start Num: 48
Candidate Starts for Emiris_33:
(Start: 48 @32358 has 84 MA's), (81, 32469), (101, 32514), (138, 32613), (159, 32673), (170, 32709), (179, 32733), (204, 32778), (209, 32784), (237, 32835), (258, 32874), (259, 32877), (265, 32889), (275, 32904), (305, 32928), (314, 32961), (336, 33042), (344, 33087), (361, 33135), (374, 33171), (378, 33180), (380, 33186), (459, 33411),

Gene: Enkosi_24 Start: 22900, Stop: 23907, Start Num: 76
Candidate Starts for Enkosi_24:
(61, 22849), (65, 22861), (Start: 76 @22900 has 170 MA's), (103, 22960), (133, 23032), (153, 23086), (160, 23107), (221, 23236), (247, 23281), (251, 23284), (313, 23341), (314, 23344), (328, 23389), (337, 23425), (361, 23521), (366, 23533), (397, 23653), (452, 23785),

Gene: Ennea_51 Start: 36974, Stop: 38035, Start Num: 80
Candidate Starts for Ennea_51:
(Start: 80 @36974 has 33 MA's), (150, 37160), (232, 37346), (234, 37349), (339, 37559),

Gene: Eponine_29 Start: 24914, Stop: 25987, Start Num: 73
Candidate Starts for Eponine_29:
(Start: 73 @24914 has 102 MA's), (Start: 76 @24917 has 170 MA's), (168, 25157), (181, 25193), (187, 25202), (191, 25208), (218, 25253), (243, 25298), (252, 25316), (267, 25343), (314, 25424), (331, 25481), (337, 25505),

Gene: Erutan_33 Start: 29002, Stop: 30048, Start Num: 93
Candidate Starts for Erutan_33:
(Start: 93 @29002 has 33 MA's), (143, 29116), (151, 29137), (173, 29212), (181, 29227), (212, 29290), (314, 29515), (362, 29686), (379, 29731), (445, 29914),

Gene: Etoile_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for Etoile_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: Eugenia_33 Start: 32376, Stop: 33536, Start Num: 48
Candidate Starts for Eugenia_33:
(Start: 48 @32376 has 84 MA's), (81, 32487), (101, 32532), (138, 32631), (159, 32691), (170, 32727), (179, 32751), (204, 32796), (209, 32802), (237, 32853), (258, 32892), (259, 32895), (265, 32907), (275, 32922), (305, 32946), (314, 32979), (336, 33060), (344, 33105), (361, 33153), (374, 33189),

(378, 33198), (380, 33204), (459, 33429),

Gene: Ewald_30 Start: 26639, Stop: 27724, Start Num: 96
Candidate Starts for Ewald_30:
(52, 26504), (Start: 96 @26639 has 5 MA's), (140, 26744), (146, 26762), (173, 26849), (288, 27062), (289, 27077), (297, 27104), (303, 27119), (331, 27212), (335, 27227), (350, 27284), (366, 27344), (378, 27377),

Gene: FF47_25 Start: 21654, Stop: 22679, Start Num: 90
Candidate Starts for FF47_25:
(Start: 90 @21654 has 2 MA's), (130, 21744), (158, 21813), (161, 21822), (203, 21900), (237, 21963), (238, 21966), (303, 22110), (314, 22146), (342, 22254), (422, 22491), (463, 22617),

Gene: Faiyaz_28 Start: 26025, Stop: 27062, Start Num: 76
Candidate Starts for Faiyaz_28:
(Start: 76 @26025 has 170 MA's), (123, 26148), (147, 26202), (159, 26238), (187, 26301), (218, 26349), (249, 26403), (251, 26406), (336, 26592), (342, 26628), (356, 26670), (361, 26688), (380, 26739),

Gene: Fang_33 Start: 32380, Stop: 33540, Start Num: 48
Candidate Starts for Fang_33:
(Start: 48 @32380 has 84 MA's), (81, 32491), (101, 32536), (138, 32635), (159, 32695), (170, 32731), (179, 32755), (204, 32800), (209, 32806), (237, 32857), (258, 32896), (259, 32899), (265, 32911), (275, 32926), (305, 32950), (314, 32983), (336, 33064), (344, 33109), (361, 33157), (374, 33193), (378, 33202), (380, 33208), (459, 33433),

Gene: Farewell_21 Start: 21884, Stop: 22930, Start Num: 76
Candidate Starts for Farewell_21:
(Start: 76 @21884 has 170 MA's), (153, 22076), (159, 22097), (218, 22208), (243, 22250), (245, 22253), (336, 22454), (342, 22490), (379, 22598), (431, 22751), (434, 22760), (440, 22772),

Gene: FarmResident_21 Start: 21591, Stop: 22598, Start Num: 107
Candidate Starts for FarmResident_21:
(Start: 76 @21513 has 170 MA's), (107, 21591), (170, 21765), (189, 21804), (210, 21843), (226, 21873), (228, 21876), (270, 21954), (302, 21987), (350, 22149), (426, 22383), (439, 22416), (447, 22440), (457, 22485),

Gene: Faze9_33 Start: 32820, Stop: 33983, Start Num: 48
Candidate Starts for Faze9_33:
(Start: 46 @32814 has 10 MA's), (Start: 48 @32820 has 84 MA's), (56, 32859), (64, 32889), (81, 32934), (101, 32979), (138, 33078), (159, 33138), (170, 33174), (179, 33198), (204, 33243), (209, 33249), (237, 33300), (258, 33339), (259, 33342), (265, 33354), (275, 33369), (305, 33393), (314, 33426), (336, 33507), (344, 33552), (361, 33600), (374, 33636), (378, 33645), (380, 33651), (459, 33876),

Gene: Fefferhead_27 Start: 23613, Stop: 24665, Start Num: 73
Candidate Starts for Fefferhead_27:
(64, 23577), (Start: 73 @23613 has 102 MA's), (111, 23703), (Start: 117 @23724 has 3 MA's), (133, 23751), (165, 23838), (170, 23859), (177, 23880), (300, 24069), (321, 24147), (337, 24204), (341, 24237), (348, 24252), (435, 24507), (443, 24522), (462, 24603), (473, 24642),

Gene: FelixAlejandro_34 Start: 38037, Stop: 38939, Start Num: 137
Candidate Starts for FelixAlejandro_34:

(Start: 137 @38037 has 35 MA's), (193, 38172), (207, 38205), (236, 38256), (252, 38283), (314, 38382), (337, 38463), (354, 38517), (429, 38754), (469, 38880), (475, 38922),

Gene: Feyre_27 Start: 23851, Stop: 24918, Start Num: 76
Candidate Starts for Feyre_27:
(Start: 76 @23851 has 170 MA's), (120, 23968), (161, 24073), (165, 24079), (191, 24139), (198, 24154), (218, 24181), (239, 24220), (242, 24223), (249, 24235), (251, 24238), (252, 24241), (261, 24256), (297, 24301), (299, 24307), (317, 24361), (331, 24409), (340, 24439), (351, 24484), (397, 24667),

Gene: Findley_25 Start: 21282, Stop: 22307, Start Num: 76
Candidate Starts for Findley_25:
(33, 21099), (47, 21198), (Start: 76 @21282 has 170 MA's), (108, 21363), (Start: 115 @21387 has 1 MA's), (143, 21447), (162, 21501), (165, 21507), (199, 21588), (202, 21594), (212, 21609), (213, 21612), (339, 21816), (472, 22275), (473, 22284),

Gene: Fionnbharth_29 Start: 24586, Stop: 25590, Start Num: 76
Candidate Starts for Fionnbharth_29:
(Start: 76 @24586 has 170 MA's), (Start: 104 @24655 has 1 MA's), (146, 24754), (162, 24799), (165, 24805), (185, 24859), (191, 24868), (212, 24904), (237, 24949), (247, 24970), (252, 24976), (254, 24979), (336, 25111), (337, 25114), (371, 25237), (380, 25258), (465, 25525),

Gene: FirstPlacePfu_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for FirstPlacePfu_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: Fishburne_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for Fishburne_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: Flapper_49 Start: 36682, Stop: 37743, Start Num: 79
Candidate Starts for Flapper_49:
(30, 36406), (60, 36619), (Start: 79 @36682 has 3 MA's), (Start: 117 @36790 has 3 MA's), (149, 36868), (195, 36976), (234, 37060), (245, 37081), (250, 37087), (267, 37114), (356, 37342), (379, 37408), (465, 37672), (473, 37717),

Gene: Float294_47 Start: 36416, Stop: 37477, Start Num: 80
Candidate Starts for Float294_47:
(Start: 80 @36416 has 33 MA's), (150, 36602), (232, 36788), (234, 36791), (339, 37001), (453, 37340), (465, 37406),

Gene: ForDig_27 Start: 30056, Stop: 31282, Start Num: 48
Candidate Starts for ForDig_27:
(Start: 48 @30056 has 84 MA's), (56, 30095), (68, 30137), (70, 30146), (71, 30149), (81, 30170), (101, 30215), (119, 30275), (131, 30296), (133, 30299), (154, 30356), (170, 30410), (171, 30413), (172, 30419), (193, 30458), (204, 30482), (235, 30536), (238, 30542), (240, 30548), (256, 30575), (261, 30584), (287, 30629), (296, 30707), (337, 30842), (342, 30878), (375, 30968), (391, 31028), (415, 31082), (443, 31136),

Gene: Foxboro_45 Start: 36480, Stop: 37538, Start Num: 80
Candidate Starts for Foxboro_45:
(1, 35040), (2, 35337), (5, 35568), (13, 35937), (40, 36315), (42, 36330), (Start: 46 @36348 has 10 MA's), (Start: 80 @36480 has 33 MA's), (217, 36825), (245, 36876), (277, 36924),

Gene: Francois_27 Start: 23338, Stop: 24405, Start Num: 100
Candidate Starts for Francois_27:
(Start: 100 @23338 has 14 MA's), (276, 23716), (323, 23857), (331, 23884), (337, 23908), (357, 23992), (406, 24139),

Gene: FreakyGoo_32 Start: 26992, Stop: 28047, Start Num: 76
Candidate Starts for FreakyGoo_32:
(Start: 76 @26992 has 170 MA's), (159, 27205), (171, 27241), (212, 27304), (251, 27376), (267, 27406), (279, 27427), (307, 27463), (317, 27499), (331, 27547), (336, 27568), (339, 27574), (342, 27604), (343, 27607), (358, 27655), (423, 27844), (431, 27865), (450, 27919),

Gene: FrenchFry_33 Start: 32814, Stop: 33977, Start Num: 48
Candidate Starts for FrenchFry_33:
(29, 32667), (Start: 46 @32808 has 10 MA's), (Start: 48 @32814 has 84 MA's), (56, 32853), (64, 32883), (81, 32928), (101, 32973), (138, 33072), (159, 33132), (170, 33168), (179, 33192), (204, 33237), (209, 33243), (237, 33294), (258, 33333), (259, 33336), (265, 33348), (275, 33363), (305, 33387), (314, 33420), (336, 33501), (361, 33594), (374, 33630), (378, 33639), (380, 33645), (391, 33705), (459, 33870),

Gene: Freya_32 Start: 32064, Stop: 33224, Start Num: 48
Candidate Starts for Freya_32:
(Start: 48 @32064 has 84 MA's), (81, 32175), (101, 32220), (138, 32319), (159, 32379), (170, 32415), (179, 32439), (204, 32484), (209, 32490), (237, 32541), (258, 32580), (259, 32583), (265, 32595), (275, 32610), (305, 32634), (314, 32667), (336, 32748), (344, 32793), (361, 32841), (374, 32877), (378, 32886), (380, 32892), (459, 33117),

Gene: Fulcrum_34 Start: 29520, Stop: 30569, Start Num: 93
Candidate Starts for Fulcrum_34:
(Start: 93 @29520 has 33 MA's), (143, 29634), (151, 29655), (173, 29730), (181, 29745), (212, 29808), (244, 29868), (293, 29970), (314, 30033), (362, 30204), (445, 30432),

Gene: Funsized_35 Start: 35123, Stop: 36316, Start Num: 48
Candidate Starts for Funsized_35:
(11, 34694), (38, 35066), (41, 35099), (Start: 48 @35123 has 84 MA's), (94, 35279), (112, 35327), (122, 35354), (131, 35369), (134, 35375), (155, 35432), (170, 35483), (171, 35486), (172, 35492), (179, 35507), (199, 35543), (204, 35552), (258, 35648), (271, 35672), (273, 35675), (309, 35804), (338, 35891), (355, 35945), (473, 36290), (475, 36296),

Gene: Fury_53 Start: 35397, Stop: 36479, Start Num: 80
Candidate Starts for Fury_53:
(Start: 80 @35397 has 33 MA's), (122, 35514), (214, 35742), (258, 35826), (261, 35832), (283, 35871), (303, 35886), (318, 35928), (363, 36093), (420, 36273), (465, 36411),

Gene: GOATification_34 Start: 29520, Stop: 30569, Start Num: 93
Candidate Starts for GOATification_34:
(Start: 93 @29520 has 33 MA's), (143, 29634), (151, 29655), (173, 29730), (181, 29745), (212, 29808), (244, 29868), (293, 29970), (314, 30033), (362, 30204), (445, 30432),

Gene: GRU1_34 Start: 28214, Stop: 29290, Start Num: 79
Candidate Starts for GRU1_34:
(40, 28052), (Start: 79 @28214 has 3 MA's), (Start: 117 @28322 has 3 MA's), (140, 28373), (149, 28400), (195, 28508), (234, 28592), (245, 28613), (250, 28619), (267, 28646), (356, 28874), (453, 29153), (473, 29264),

Gene: GTE5_36 Start: 29539, Stop: 30600, Start Num: 79
Candidate Starts for GTE5_36:
(60, 29476), (Start: 79 @29539 has 3 MA's), (Start: 117 @29647 has 3 MA's), (149, 29725), (195, 29833), (234, 29917), (245, 29938), (256, 29950), (267, 29971), (269, 29974), (465, 30529), (473, 30574),

Gene: GTE8_33 Start: 29229, Stop: 30287, Start Num: 78
Candidate Starts for GTE8_33:
(40, 29067), (Start: 78 @29229 has 2 MA's), (160, 29445), (246, 29628), (465, 30216), (473, 30261),

Gene: GalacticEye_30 Start: 38068, Stop: 38970, Start Num: 137
Candidate Starts for GalacticEye_30:
(Start: 137 @38068 has 35 MA's), (193, 38206), (223, 38275), (252, 38323), (301, 38386), (314, 38422), (358, 38590), (454, 38842), (473, 38947),

Gene: GaloreK_22 Start: 21295, Stop: 22332, Start Num: 76
Candidate Starts for GaloreK_22:
(68, 21271), (Start: 73 @21292 has 102 MA's), (Start: 76 @21295 has 170 MA's), (85, 21319), (142, 21457), (156, 21499), (181, 21568), (218, 21628), (243, 21673), (267, 21718), (314, 21799), (331, 21856), (337, 21880), (366, 21985), (385, 22057), (403, 22102), (465, 22267),

Gene: Ganymede_29 Start: 23336, Stop: 24349, Start Num: 73
Candidate Starts for Ganymede_29:
(17, 22892), (62, 23291), (Start: 73 @23336 has 102 MA's), (Start: 117 @23447 has 3 MA's), (165, 23561), (221, 23678), (246, 23720), (254, 23732), (311, 23771), (314, 23786), (336, 23864), (357, 23948), (361, 23960), (366, 23972), (380, 24011), (411, 24125), (443, 24194),

Gene: Gavriela_22 Start: 21561, Stop: 22601, Start Num: 76
Candidate Starts for Gavriela_22:
(Start: 76 @21561 has 170 MA's), (140, 21720), (142, 21726), (156, 21768), (178, 21834), (181, 21837), (218, 21897), (243, 21942), (267, 21987), (314, 22068), (331, 22125), (337, 22149), (366, 22254), (385, 22326), (403, 22371),

Gene: Genamy16_33 Start: 27521, Stop: 28618, Start Num: 93
Candidate Starts for Genamy16_33:
(Start: 93 @27521 has 33 MA's), (143, 27635), (183, 27728), (201, 27761), (203, 27764), (205, 27767), (212, 27785), (213, 27788), (218, 27800), (244, 27848), (278, 27911), (295, 27965), (325, 28061), (335, 28103), (393, 28337), (413, 28376), (446, 28463), (478, 28610),

Gene: GeneCoco_33 Start: 32381, Stop: 33541, Start Num: 48
Candidate Starts for GeneCoco_33:
(Start: 48 @32381 has 84 MA's), (81, 32492), (101, 32537), (138, 32636), (159, 32696), (170, 32732), (179, 32756), (204, 32801), (209, 32807), (237, 32858), (258, 32897), (259, 32900), (265, 32912), (275, 32927), (305, 32951), (314, 32984), (336, 33065), (344, 33110), (361, 33158), (374, 33194), (378, 33203), (380, 33209), (459, 33434),

Gene: Gengar_27 Start: 23958, Stop: 25028, Start Num: 76

Candidate Starts for Gengar_27:
(Start: 76 @23958 has 170 MA's), (145, 24132), (165, 24186), (188, 24243), (191, 24246), (198, 24261), (218, 24288), (239, 24327), (242, 24330), (249, 24342), (251, 24345), (252, 24348), (299, 24417), (317, 24471), (340, 24549), (351, 24594), (397, 24777),

Gene: Geraldini_28 Start: 23332, Stop: 24345, Start Num: 73
Candidate Starts for Geraldini_28:
(17, 22888), (62, 23287), (Start: 73 @23332 has 102 MA's), (Start: 117 @23443 has 3 MA's), (162, 23551), (165, 23557), (221, 23674), (246, 23716), (254, 23728), (314, 23782), (336, 23860), (357, 23944), (361, 23956), (366, 23968), (380, 24007), (411, 24121), (443, 24190),

Gene: Gibbin_34 Start: 29619, Stop: 30668, Start Num: 93
Candidate Starts for Gibbin_34:
(Start: 93 @29619 has 33 MA's), (143, 29733), (157, 29775), (173, 29829), (181, 29844), (212, 29907), (362, 30303), (379, 30348), (407, 30438), (445, 30531),

Gene: Glaske_22 Start: 21561, Stop: 22601, Start Num: 76
Candidate Starts for Glaske_22:
(Start: 76 @21561 has 170 MA's), (140, 21720), (142, 21726), (156, 21768), (178, 21834), (181, 21837), (218, 21897), (243, 21942), (267, 21987), (314, 22068), (331, 22125), (337, 22149), (366, 22254), (385, 22326), (403, 22371),

Gene: Glaske16_32 Start: 26991, Stop: 28046, Start Num: 76
Candidate Starts for Glaske16_32:
(Start: 76 @26991 has 170 MA's), (159, 27204), (171, 27240), (212, 27303), (251, 27375), (267, 27405), (279, 27426), (307, 27462), (317, 27498), (331, 27546), (336, 27567), (339, 27573), (342, 27603), (343, 27606), (358, 27654), (431, 27864), (450, 27918),

Gene: Glass_33 Start: 32814, Stop: 33977, Start Num: 48
Candidate Starts for Glass_33:
(Start: 46 @32808 has 10 MA's), (Start: 48 @32814 has 84 MA's), (56, 32853), (64, 32883), (81, 32928), (101, 32973), (138, 33072), (159, 33132), (170, 33168), (179, 33192), (204, 33237), (209, 33243), (237, 33294), (258, 33333), (259, 33336), (265, 33348), (275, 33363), (305, 33387), (314, 33420), (336, 33501), (344, 33546), (361, 33594), (374, 33630), (378, 33639), (380, 33645), (459, 33870),

Gene: GodPhather_26 Start: 30204, Stop: 31373, Start Num: 46
Candidate Starts for GodPhather_26:
(Start: 46 @30204 has 10 MA's), (Start: 48 @30210 has 84 MA's), (56, 30249), (64, 30279), (81, 30324), (101, 30369), (138, 30468), (159, 30528), (170, 30564), (179, 30588), (204, 30633), (209, 30639), (237, 30690), (258, 30729), (259, 30732), (265, 30744), (275, 30759), (305, 30783), (314, 30816), (336, 30897), (344, 30942), (361, 30990), (374, 31026), (378, 31035), (380, 31041), (459, 31266),

Gene: GrandSlam_27 Start: 23849, Stop: 24916, Start Num: 100
Candidate Starts for GrandSlam_27:
(Start: 100 @23849 has 14 MA's), (276, 24227), (323, 24368), (328, 24383), (331, 24395), (337, 24419), (357, 24503), (359, 24509), (370, 24542), (375, 24554), (406, 24650), (407, 24653), (413, 24674),

Gene: GretelLyn_33 Start: 29878, Stop: 30933, Start Num: 93
Candidate Starts for GretelLyn_33:

(Start: 93 @29878 has 33 MA's), (143, 29992), (157, 30034), (173, 30088), (181, 30103), (212, 30166), (244, 30226), (293, 30328), (314, 30391), (362, 30562), (445, 30796),

Gene: GrootJr_46 Start: 35356, Stop: 36414, Start Num: 80
Candidate Starts for GrootJr_46:
(1, 33916), (2, 34213), (5, 34444), (13, 34813), (40, 35191), (42, 35206), (Start: 46 @35224 has 10 MA's), (Start: 80 @35356 has 33 MA's), (217, 35701), (245, 35752), (277, 35800),

Gene: Gsput1_26 Start: 21693, Stop: 22775, Start Num: 80
Candidate Starts for Gsput1_26:
(Start: 80 @21693 has 33 MA's), (143, 21855), (159, 21903), (163, 21915), (206, 22017), (236, 22077), (252, 22110), (261, 22125), (283, 22164), (326, 22248), (334, 22278), (337, 22290), (380, 22437), (415, 22563), (443, 22620), (472, 22743),

Gene: Guanica15_28 Start: 22542, Stop: 23603, Start Num: 73
Candidate Starts for Guanica15_28:
(Start: 73 @22542 has 102 MA's), (Start: 117 @22656 has 3 MA's), (165, 22770), (170, 22791), (215, 22878), (230, 22899), (233, 22905), (320, 23013), (336, 23073), (363, 23193), (364, 23199), (365, 23205), (386, 23295), (430, 23421), (436, 23436),

Gene: Guillaume_30 Start: 38118, Stop: 39020, Start Num: 137
Candidate Starts for Guillaume_30:
(Start: 137 @38118 has 35 MA's), (193, 38256), (200, 38274), (223, 38325), (252, 38373), (301, 38436), (314, 38472), (358, 38640), (447, 38874), (454, 38892), (473, 38997),

Gene: Guillsminger_27 Start: 23933, Stop: 25000, Start Num: 76
Candidate Starts for Guillsminger_27:
(Start: 76 @23933 has 170 MA's), (120, 24050), (145, 24107), (161, 24155), (165, 24161), (188, 24218), (191, 24221), (198, 24236), (218, 24263), (239, 24302), (242, 24305), (249, 24317), (251, 24320), (252, 24323), (261, 24338), (297, 24383), (299, 24389), (317, 24443), (331, 24491), (340, 24521), (351, 24566), (385, 24695), (397, 24749),

Gene: HC_22 Start: 21369, Stop: 22406, Start Num: 76
Candidate Starts for HC_22:
(68, 21345), (Start: 73 @21366 has 102 MA's), (Start: 76 @21369 has 170 MA's), (85, 21393), (142, 21531), (156, 21573), (181, 21642), (218, 21702), (243, 21747), (267, 21792), (314, 21873), (331, 21930), (337, 21954), (366, 22059), (385, 22131), (403, 22176), (465, 22341),

Gene: HUHilltop_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for HUHilltop_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: Hail2Pitt_30 Start: 38595, Stop: 39497, Start Num: 137
Candidate Starts for Hail2Pitt_30:
(Start: 137 @38595 has 35 MA's), (193, 38733), (223, 38802), (252, 38850), (301, 38913), (314, 38949), (317, 38958), (358, 39117), (447, 39351), (454, 39369), (473, 39474),

Gene: Hammy_27 Start: 23691, Stop: 24695, Start Num: 73
Candidate Starts for Hammy_27:
(Start: 73 @23691 has 102 MA's), (189, 23976), (221, 24033), (321, 24165), (330, 24192), (359, 24306), (405, 24459), (443, 24552), (444, 24555), (461, 24618), (465, 24630),

Gene: Hamood_27 Start: 23849, Stop: 24916, Start Num: 100
Candidate Starts for Hamood_27:
(Start: 100 @23849 has 14 MA's), (276, 24227), (323, 24368), (328, 24383), (331, 24395), (337, 24419), (357, 24503), (359, 24509), (370, 24542), (375, 24554), (406, 24650), (407, 24653), (413, 24674),

Gene: Harambe_30 Start: 38385, Stop: 39287, Start Num: 137
Candidate Starts for Harambe_30:
(Start: 137 @38385 has 35 MA's), (193, 38523), (223, 38592), (252, 38640), (301, 38703), (314, 38739), (358, 38907), (447, 39141), (454, 39159), (473, 39264),

Gene: Hedgerow_33 Start: 32796, Stop: 33959, Start Num: 48
Candidate Starts for Hedgerow_33:
(29, 32649), (Start: 46 @32790 has 10 MA's), (Start: 48 @32796 has 84 MA's), (56, 32835), (64, 32865), (81, 32910), (101, 32955), (138, 33054), (159, 33114), (170, 33150), (179, 33174), (204, 33219), (209, 33225), (237, 33276), (258, 33315), (259, 33318), (265, 33330), (275, 33345), (305, 33369), (314, 33402), (336, 33483), (361, 33576), (374, 33612), (378, 33621), (380, 33627), (391, 33687), (459, 33852),

Gene: HedwigODU_28 Start: 23325, Stop: 24338, Start Num: 73
Candidate Starts for HedwigODU_28:
(17, 22881), (28, 23028), (62, 23280), (Start: 73 @23325 has 102 MA's), (Start: 117 @23436 has 3 MA's), (165, 23550), (221, 23667), (246, 23709), (254, 23721), (314, 23775), (336, 23853), (361, 23949), (366, 23961), (377, 23991), (380, 24000), (411, 24114), (443, 24183),

Gene: Heftyboy_27 Start: 24081, Stop: 25148, Start Num: 76
Candidate Starts for Heftyboy_27:
(Start: 76 @24081 has 170 MA's), (120, 24198), (145, 24255), (161, 24303), (165, 24309), (188, 24366), (191, 24369), (198, 24384), (218, 24411), (239, 24450), (242, 24453), (249, 24465), (251, 24468), (252, 24471), (261, 24486), (297, 24531), (299, 24537), (317, 24591), (331, 24639), (340, 24669), (351, 24714), (385, 24843), (397, 24897),

Gene: Hello_30 Start: 38347, Stop: 39249, Start Num: 137
Candidate Starts for Hello_30:
(Start: 137 @38347 has 35 MA's), (193, 38485), (223, 38554), (252, 38602), (301, 38665), (314, 38701), (358, 38869), (454, 39121), (473, 39226),

Gene: HenryJackson_32 Start: 32090, Stop: 33250, Start Num: 48
Candidate Starts for HenryJackson_32:
(Start: 48 @32090 has 84 MA's), (81, 32201), (101, 32246), (138, 32345), (159, 32405), (170, 32441), (179, 32465), (204, 32510), (209, 32516), (237, 32567), (258, 32606), (259, 32609), (265, 32621), (275, 32636), (305, 32660), (314, 32693), (336, 32774), (344, 32819), (361, 32867), (374, 32903), (378, 32912), (380, 32918), (459, 33143),

Gene: HighStump_32 Start: 32073, Stop: 33233, Start Num: 48
Candidate Starts for HighStump_32:
(Start: 48 @32073 has 84 MA's), (81, 32184), (101, 32229), (138, 32328), (159, 32388), (170, 32424), (179, 32448), (204, 32493), (209, 32499), (237, 32550), (258, 32589), (259, 32592), (265, 32604), (275, 32619), (305, 32643), (314, 32676), (336, 32757), (344, 32802), (361, 32850), (374, 32886), (378, 32895), (380, 32901), (459, 33126),

Gene: Hilltopfarm_28 Start: 26055, Stop: 27092, Start Num: 76

Candidate Starts for Hilltopfarm_28:
(Start: 76 @26055 has 170 MA's), (123, 26178), (147, 26232), (159, 26268), (187, 26331), (218, 26379), (249, 26433), (251, 26436), (336, 26622), (342, 26658), (356, 26700), (361, 26718), (380, 26769),

Gene: HogWash_32 Start: 32379, Stop: 33539, Start Num: 48
Candidate Starts for HogWash_32:
(Start: 48 @32379 has 84 MA's), (81, 32490), (101, 32535), (138, 32634), (159, 32694), (170, 32730), (179, 32754), (204, 32799), (209, 32805), (237, 32856), (258, 32895), (259, 32898), (265, 32910), (275, 32925), (305, 32949), (314, 32982), (336, 33063), (344, 33108), (361, 33156), (374, 33192), (378, 33201), (380, 33207), (459, 33432),

Gene: Holeinone_33 Start: 32676, Stop: 33839, Start Num: 48
Candidate Starts for Holeinone_33:
(29, 32529), (Start: 46 @32670 has 10 MA's), (Start: 48 @32676 has 84 MA's), (56, 32715), (64, 32745), (81, 32790), (101, 32835), (138, 32934), (159, 32994), (170, 33030), (179, 33054), (204, 33099), (209, 33105), (237, 33156), (258, 33195), (259, 33198), (265, 33210), (275, 33225), (305, 33249), (314, 33282), (336, 33363), (361, 33456), (374, 33492), (378, 33501), (380, 33507), (459, 33732),

Gene: HomeFry_50 Start: 34029, Stop: 35111, Start Num: 80
Candidate Starts for HomeFry_50:
(Start: 80 @34029 has 33 MA's), (122, 34146), (199, 34341), (320, 34566),

Gene: Homura_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Homura_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (Start: 117 @23467 has 3 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (366, 23992), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Hosp_025 Start: 28263, Stop: 29486, Start Num: 48
Candidate Starts for Hosp_025:
(Start: 48 @28263 has 84 MA's), (56, 28302), (71, 28353), (81, 28374), (86, 28389), (101, 28419), (119, 28479), (131, 28500), (133, 28503), (154, 28560), (170, 28614), (171, 28617), (172, 28623), (233, 28737), (271, 28806), (296, 28911), (336, 29043), (339, 29049), (375, 29172), (391, 29232), (415, 29286), (419, 29292), (443, 29340),

Gene: HubbaBubba_42 Start: 31720, Stop: 32760, Start Num: 79
Candidate Starts for HubbaBubba_42:
(Start: 79 @31720 has 3 MA's), (129, 31852), (199, 32035), (314, 32242), (317, 32251), (336, 32320), (337, 32323), (357, 32407), (409, 32560), (441, 32644), (443, 32653), (444, 32656), (463, 32752),

Gene: Hurricane_28 Start: 23950, Stop: 24975, Start Num: 76
Candidate Starts for Hurricane_28:
(10, 23398), (14, 23464), (16, 23527), (19, 23560), (22, 23602), (33, 23761), (47, 23860), (59, 23917), (Start: 76 @23950 has 170 MA's), (128, 24073), (133, 24082), (143, 24109), (160, 24157), (165, 24169), (170, 24190), (196, 24241), (212, 24271), (323, 24424), (330, 24445), (345, 24517), (357, 24553), (362, 24568), (378, 24610), (380, 24616), (400, 24706), (438, 24805), (440, 24808), (464, 24907), (475, 24958),

Gene: Hyperbowlee_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Hyperbowlee_28:

(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (Start: 117 @23467 has 3 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (366, 23992), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: IPhane7_31 Start: 26992, Stop: 28047, Start Num: 76
Candidate Starts for IPhane7_31:
(Start: 76 @26992 has 170 MA's), (159, 27205), (171, 27241), (212, 27304), (251, 27376), (267, 27406), (279, 27427), (307, 27463), (317, 27499), (331, 27547), (336, 27568), (339, 27574), (342, 27604), (343, 27607), (358, 27655), (423, 27844), (431, 27865), (450, 27919),

Gene: IdentityCrisis_21 Start: 19031, Stop: 20086, Start Num: 76
Candidate Starts for IdentityCrisis_21:
(Start: 76 @19031 has 170 MA's), (120, 19148), (191, 19322), (261, 19439), (264, 19445), (337, 19610), (361, 19703), (379, 19751), (386, 19787), (421, 19880),

Gene: Illumine_28 Start: 23339, Stop: 24352, Start Num: 73
Candidate Starts for Illumine_28:
(Start: 73 @23339 has 102 MA's), (Start: 117 @23450 has 3 MA's), (122, 23459), (165, 23564), (209, 23660), (221, 23681), (246, 23723), (254, 23735), (314, 23789), (336, 23867), (361, 23963), (366, 23975), (380, 24014), (411, 24128), (443, 24197), (468, 24293),

Gene: Impisi_22 Start: 20207, Stop: 21247, Start Num: 76
Candidate Starts for Impisi_22:
(Start: 76 @20207 has 170 MA's), (142, 20372), (156, 20414), (181, 20483), (218, 20543), (243, 20588), (267, 20633), (312, 20702), (314, 20714), (331, 20771), (337, 20795), (366, 20900), (385, 20972), (403, 21017),

Gene: ImtiyazSitla_32 Start: 31924, Stop: 33084, Start Num: 48
Candidate Starts for ImtiyazSitla_32:
(Start: 48 @31924 has 84 MA's), (81, 32035), (101, 32080), (138, 32179), (159, 32239), (170, 32275), (179, 32299), (204, 32344), (209, 32350), (237, 32401), (258, 32440), (259, 32443), (265, 32455), (275, 32470), (305, 32494), (314, 32527), (336, 32608), (344, 32653), (361, 32701), (374, 32737), (378, 32746), (380, 32752), (459, 32977),

Gene: Inky_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Inky_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: InvictusManeo_27 Start: 24083, Stop: 25147, Start Num: 76
Candidate Starts for InvictusManeo_27:
(Start: 76 @24083 has 170 MA's), (110, 24173), (120, 24200), (147, 24263), (165, 24311), (177, 24350), (188, 24368), (218, 24413), (239, 24452), (267, 24500), (277, 24518), (317, 24593), (337, 24659), (359, 24749), (360, 24752), (361, 24755), (372, 24788), (394, 24887), (395, 24890), (432, 24974), (437, 24986), (470, 25103),

Gene: ItsyBitsy1_33 Start: 32678, Stop: 33841, Start Num: 48
Candidate Starts for ItsyBitsy1_33:
(29, 32531), (Start: 46 @32672 has 10 MA's), (Start: 48 @32678 has 84 MA's), (56, 32717), (64, 32747), (81, 32792), (101, 32837), (138, 32936), (159, 32996), (170, 33032), (179, 33056), (204, 33101), (209, 33107), (237, 33158), (258, 33197), (259, 33200), (265, 33212), (275, 33227), (305, 33251), (314, 33284), (336, 33365), (361, 33458), (374, 33494), (378, 33503), (380, 33509), (459,

33734),

Gene: Izel_32 Start: 26991, Stop: 28046, Start Num: 76
Candidate Starts for Izel_32:
(Start: 76 @26991 has 170 MA's), (159, 27204), (171, 27240), (212, 27303), (251, 27375), (267, 27405), (279, 27426), (307, 27462), (317, 27498), (331, 27546), (336, 27567), (339, 27573), (342, 27603), (343, 27606), (358, 27654), (431, 27864), (450, 27918),

Gene: JAWS_28 Start: 23310, Stop: 24323, Start Num: 73
Candidate Starts for JAWS_28:
(17, 22866), (62, 23265), (Start: 73 @23310 has 102 MA's), (Start: 117 @23421 has 3 MA's), (165, 23535), (221, 23652), (246, 23694), (254, 23706), (314, 23760), (336, 23838), (361, 23934), (377, 23976), (380, 23985), (411, 24099), (443, 24168),

Gene: JDog_32 Start: 32090, Stop: 33250, Start Num: 48
Candidate Starts for JDog_32:
(Start: 48 @32090 has 84 MA's), (81, 32201), (101, 32246), (138, 32345), (159, 32405), (170, 32441), (179, 32465), (204, 32510), (209, 32516), (237, 32567), (258, 32606), (259, 32609), (265, 32621), (275, 32636), (305, 32660), (314, 32693), (336, 32774), (344, 32819), (361, 32867), (374, 32903), (378, 32912), (380, 32918), (459, 33143),

Gene: JF1_29 Start: 24585, Stop: 25589, Start Num: 76
Candidate Starts for JF1_29:
(Start: 76 @24585 has 170 MA's), (Start: 104 @24654 has 1 MA's), (146, 24753), (162, 24798), (165, 24804), (185, 24858), (191, 24867), (212, 24903), (237, 24948), (247, 24969), (252, 24975), (254, 24978), (336, 25110), (337, 25113), (371, 25236), (380, 25257), (465, 25524),

Gene: Jalebi_32 Start: 30054, Stop: 31103, Start Num: 93
Candidate Starts for Jalebi_32:
(Start: 93 @30054 has 33 MA's), (143, 30168), (151, 30189), (173, 30264), (181, 30279), (212, 30342), (244, 30402), (293, 30504), (314, 30567), (362, 30738), (445, 30966),

Gene: Jamemuya19_30 Start: 27111, Stop: 28208, Start Num: 93
Candidate Starts for Jamemuya19_30:
(Start: 93 @27111 has 33 MA's), (143, 27225), (183, 27318), (201, 27351), (203, 27354), (205, 27357), (213, 27378), (218, 27390), (244, 27438), (278, 27501), (295, 27555), (325, 27651), (335, 27693), (393, 27927), (413, 27966), (446, 28053), (478, 28200),

Gene: Jams_30 Start: 37556, Stop: 38458, Start Num: 137
Candidate Starts for Jams_30:
(Start: 137 @37556 has 35 MA's), (193, 37694), (223, 37763), (252, 37811), (301, 37874), (314, 37910), (358, 38078), (454, 38330), (473, 38435),

Gene: Jarvi_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Jarvi_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Jayhawk_28 Start: 23323, Stop: 24336, Start Num: 73
Candidate Starts for Jayhawk_28:
(17, 22879), (28, 23026), (62, 23278), (Start: 73 @23323 has 102 MA's), (Start: 117 @23434 has 3 MA's), (165, 23548), (221, 23665), (246, 23707), (254, 23719), (314, 23773), (336, 23851), (361,

23947), (366, 23959), (377, 23989), (380, 23998), (411, 24112), (443, 24181),

Gene: Jebeks_22 Start: 21284, Stop: 22321, Start Num: 76
Candidate Starts for Jebeks_22:
(68, 21260), (Start: 73 @21281 has 102 MA's), (Start: 76 @21284 has 170 MA's), (85, 21308), (142, 21446), (156, 21488), (181, 21557), (218, 21617), (243, 21662), (267, 21707), (314, 21788), (331, 21845), (337, 21869), (366, 21974), (385, 22046), (403, 22091), (465, 22256),

Gene: Jeckyll_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Jeckyll_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Jellybones_33 Start: 37898, Stop: 38800, Start Num: 137
Candidate Starts for Jellybones_33:
(Start: 137 @37898 has 35 MA's), (207, 38066), (223, 38102), (236, 38117), (243, 38132), (252, 38144), (314, 38243), (337, 38324), (354, 38378), (429, 38615), (469, 38741), (475, 38783),

Gene: Jeon_25 Start: 29946, Stop: 31115, Start Num: 46
Candidate Starts for Jeon_25:
(Start: 46 @29946 has 10 MA's), (Start: 48 @29952 has 84 MA's), (56, 29991), (64, 30021), (81, 30066), (101, 30111), (138, 30210), (159, 30270), (170, 30306), (179, 30330), (204, 30375), (209, 30381), (237, 30432), (258, 30471), (259, 30474), (265, 30486), (275, 30501), (305, 30525), (314, 30558), (336, 30639), (344, 30684), (361, 30732), (374, 30768), (378, 30777), (380, 30783), (459, 31008),

Gene: Jifall16_43 Start: 35628, Stop: 36686, Start Num: 80
Candidate Starts for Jifall16_43:
(1, 34188), (2, 34485), (5, 34716), (13, 35085), (40, 35463), (42, 35478), (Start: 46 @35496 has 10 MA's), (Start: 80 @35628 has 33 MA's), (217, 35973), (245, 36024), (277, 36072),

Gene: Jillium_32 Start: 32083, Stop: 33243, Start Num: 48
Candidate Starts for Jillium_32:
(Start: 48 @32083 has 84 MA's), (81, 32194), (101, 32239), (138, 32338), (159, 32398), (170, 32434), (179, 32458), (204, 32503), (209, 32509), (237, 32560), (258, 32599), (259, 32602), (265, 32614), (275, 32629), (305, 32653), (314, 32686), (336, 32767), (344, 32812), (361, 32860), (374, 32896), (378, 32905), (380, 32911), (459, 33136),

Gene: John316_33 Start: 37851, Stop: 38753, Start Num: 137
Candidate Starts for John316_33:
(Start: 137 @37851 has 35 MA's), (193, 37986), (207, 38019), (223, 38055), (236, 38070), (243, 38085), (252, 38097), (314, 38196), (337, 38277), (354, 38331), (429, 38568), (469, 38694), (475, 38736),

Gene: Jolie1_027 Start: 30065, Stop: 31273, Start Num: 48
Candidate Starts for Jolie1_027:
(Start: 48 @30065 has 84 MA's), (56, 30104), (68, 30146), (70, 30155), (71, 30158), (81, 30179), (101, 30224), (112, 30263), (119, 30284), (131, 30305), (133, 30308), (154, 30365), (170, 30419), (171, 30422), (172, 30428), (192, 30464), (225, 30530), (233, 30542), (235, 30545), (238, 30551), (261, 30593), (290, 30674), (296, 30698), (337, 30833), (342, 30869), (375, 30959), (391, 31019), (415, 31073), (443, 31127),

Gene: Jolie2_23 Start: 22241, Stop: 23368, Start Num: 48
Candidate Starts for Jolie2_23:
(27, 22061), (38, 22184), (Start: 48 @22241 has 84 MA's), (170, 22592), (192, 22634), (229, 22709), (271, 22781), (309, 22820), (336, 22919), (337, 22922), (339, 22925), (377, 23051), (427, 23189),

Gene: Jormungandr_30 Start: 38100, Stop: 39002, Start Num: 137
Candidate Starts for Jormungandr_30:
(Start: 137 @38100 has 35 MA's), (193, 38238), (223, 38307), (252, 38355), (301, 38418), (314, 38454), (358, 38622), (447, 38856), (454, 38874), (473, 38979),

Gene: Joy99_28 Start: 23285, Stop: 24298, Start Num: 73
Candidate Starts for Joy99_28:
(17, 22841), (62, 23240), (Start: 73 @23285 has 102 MA's), (165, 23510), (221, 23627), (246, 23669), (254, 23681), (314, 23735), (336, 23813), (361, 23909), (377, 23951), (380, 23960), (411, 24074), (443, 24143),

Gene: Juliette_30 Start: 24531, Stop: 25565, Start Num: 74
Candidate Starts for Juliette_30:
(55, 24465), (Start: 74 @24531 has 5 MA's), (140, 24687), (141, 24690), (156, 24735), (159, 24744), (191, 24819), (243, 24906), (267, 24951), (314, 25032), (331, 25089), (337, 25113), (366, 25218), (385, 25290), (410, 25350), (465, 25500),

Gene: Jumbo_25 Start: 36377, Stop: 37471, Start Num: 95
Candidate Starts for Jumbo_25:
(Start: 95 @36377 has 3 MA's), (140, 36485), (194, 36602), (237, 36689), (307, 36851), (331, 36944), (336, 36965), (359, 37052), (446, 37319),

Gene: Jung_22 Start: 21225, Stop: 22292, Start Num: 76
Candidate Starts for Jung_22:
(68, 21201), (Start: 73 @21222 has 102 MA's), (Start: 76 @21225 has 170 MA's), (85, 21249), (140, 21381), (142, 21387), (156, 21429), (178, 21495), (181, 21498), (218, 21558), (243, 21603), (267, 21648), (314, 21729), (331, 21786), (337, 21810), (344, 21852), (384, 21981), (389, 22002),

Gene: Juniormint_22 Start: 21325, Stop: 22380, Start Num: 76
Candidate Starts for Juniormint_22:
(68, 21301), (Start: 73 @21322 has 102 MA's), (Start: 76 @21325 has 170 MA's), (85, 21349), (142, 21487), (156, 21529), (181, 21598), (218, 21676), (243, 21721), (267, 21766), (314, 21847), (331, 21904), (337, 21928), (366, 22033), (385, 22105), (403, 22150), (465, 22315),

Gene: Kabluna_48 Start: 35054, Stop: 36109, Start Num: 80
Candidate Starts for Kabluna_48:
(60, 34991), (Start: 80 @35054 has 33 MA's), (160, 35267), (246, 35450), (366, 35738), (473, 36083),

Gene: Kahve_32 Start: 32087, Stop: 33247, Start Num: 48
Candidate Starts for Kahve_32:
(Start: 48 @32087 has 84 MA's), (81, 32198), (101, 32243), (138, 32342), (159, 32402), (170, 32438), (179, 32462), (204, 32507), (209, 32513), (237, 32564), (258, 32603), (259, 32606), (265, 32618), (275, 32633), (305, 32657), (314, 32690), (336, 32771), (344, 32816), (361, 32864), (374, 32900), (378, 32909), (380, 32915), (459, 33140),

Gene: Kaleb_33 Start: 32811, Stop: 33974, Start Num: 48
Candidate Starts for Kaleb_33:

(29, 32664), (Start: 46 @32805 has 10 MA's), (Start: 48 @32811 has 84 MA's), (56, 32850), (64, 32880), (81, 32925), (101, 32970), (138, 33069), (159, 33129), (170, 33165), (179, 33189), (204, 33234), (209, 33240), (237, 33291), (258, 33330), (259, 33333), (265, 33345), (275, 33360), (305, 33384), (314, 33417), (336, 33498), (344, 33543), (361, 33591), (374, 33627), (378, 33636), (380, 33642), (459, 33867),

Gene: Kari_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for Kari_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: Kaseim_30 Start: 37541, Stop: 38443, Start Num: 137
Candidate Starts for Kaseim_30:
(Start: 137 @37541 has 35 MA's), (193, 37679), (223, 37748), (252, 37796), (301, 37859), (314, 37895), (358, 38063), (454, 38315), (473, 38420),

Gene: Katniss_33 Start: 32386, Stop: 33546, Start Num: 48
Candidate Starts for Katniss_33:
(Start: 48 @32386 has 84 MA's), (81, 32497), (101, 32542), (138, 32641), (159, 32701), (170, 32737), (179, 32761), (204, 32806), (209, 32812), (237, 32863), (258, 32902), (259, 32905), (265, 32917), (275, 32932), (305, 32956), (314, 32989), (336, 33070), (344, 33115), (361, 33163), (374, 33199), (378, 33208), (380, 33214), (459, 33439),

Gene: KayaCho_27 Start: 30061, Stop: 31269, Start Num: 48
Candidate Starts for KayaCho_27:
(9, 29536), (11, 29638), (Start: 48 @30061 has 84 MA's), (56, 30100), (71, 30154), (81, 30175), (86, 30190), (101, 30220), (Start: 104 @30235 has 1 MA's), (131, 30301), (133, 30304), (154, 30361), (155, 30364), (170, 30415), (171, 30418), (172, 30424), (174, 30430), (195, 30466), (233, 30538), (235, 30541), (261, 30589), (271, 30607), (296, 30694), (337, 30829), (374, 30952), (375, 30955), (391, 31015), (415, 31069), (419, 31075), (443, 31123),

Gene: Keshu_28 Start: 23942, Stop: 24964, Start Num: 76
Candidate Starts for Keshu_28:
(33, 23753), (47, 23852), (59, 23909), (Start: 76 @23942 has 170 MA's), (140, 24092), (160, 24149), (196, 24233), (212, 24263), (330, 24434), (337, 24464), (378, 24599), (398, 24692), (400, 24695), (409, 24716), (438, 24794), (459, 24863), (462, 24893),

Gene: Kevin1_22 Start: 19999, Stop: 21036, Start Num: 74
Candidate Starts for Kevin1_22:
(55, 19933), (Start: 74 @19999 has 5 MA's), (140, 20155), (142, 20161), (178, 20269), (191, 20287), (243, 20377), (267, 20422), (314, 20503), (337, 20584), (359, 20671), (366, 20689), (385, 20761), (403, 20806), (465, 20971),

Gene: Khan1_33 Start: 32108, Stop: 33268, Start Num: 48
Candidate Starts for Khan1_33:
(Start: 48 @32108 has 84 MA's), (81, 32219), (101, 32264), (138, 32363), (159, 32423), (170, 32459), (179, 32483), (204, 32528), (209, 32534), (237, 32585), (258, 32624), (259, 32627), (265, 32639), (275, 32654), (305, 32678), (314, 32711), (336, 32792), (344, 32837), (361, 32885), (374, 32921), (378, 32930), (380, 32936), (459, 33161),

Gene: KiSi_27 Start: 22512, Stop: 23480, Start Num: 75
Candidate Starts for KiSi_27:

(Start: 75 @22512 has 4 MA's), (143, 22674), (145, 22680), (153, 22701), (155, 22707), (169, 22749), (188, 22794), (212, 22836), (221, 22851), (314, 22959), (339, 23043), (431, 23319),

Gene: KidneyBean_44 Start: 35752, Stop: 36810, Start Num: 80
Candidate Starts for KidneyBean_44:
(1, 34312), (2, 34609), (5, 34840), (13, 35209), (40, 35587), (42, 35602), (Start: 46 @35620 has 10 MA's), (Start: 80 @35752 has 33 MA's), (217, 36097), (245, 36148), (277, 36196),

Gene: Kikipoo_33 Start: 32377, Stop: 33537, Start Num: 48
Candidate Starts for Kikipoo_33:
(Start: 48 @32377 has 84 MA's), (81, 32488), (101, 32533), (138, 32632), (159, 32692), (170, 32728), (179, 32752), (204, 32797), (209, 32803), (237, 32854), (258, 32893), (259, 32896), (265, 32908), (275, 32923), (305, 32947), (314, 32980), (336, 33061), (344, 33106), (361, 33154), (374, 33190), (378, 33199), (380, 33205), (459, 33430),

Gene: KilKor_22 Start: 21561, Stop: 22601, Start Num: 76
Candidate Starts for KilKor_22:
(Start: 76 @21561 has 170 MA's), (140, 21720), (142, 21726), (156, 21768), (178, 21834), (181, 21837), (218, 21897), (243, 21942), (267, 21987), (314, 22068), (331, 22125), (337, 22149), (366, 22254), (385, 22326), (403, 22371),

Gene: KleverKiS_31 Start: 26972, Stop: 28027, Start Num: 76
Candidate Starts for KleverKiS_31:
(Start: 76 @26972 has 170 MA's), (159, 27185), (171, 27221), (212, 27284), (251, 27356), (267, 27386), (279, 27407), (307, 27443), (317, 27479), (331, 27527), (336, 27548), (339, 27554), (342, 27584), (343, 27587), (358, 27635), (431, 27845), (450, 27899),

Gene: Kolhan_33 Start: 32690, Stop: 33853, Start Num: 48
Candidate Starts for Kolhan_33:
(29, 32543), (Start: 46 @32684 has 10 MA's), (Start: 48 @32690 has 84 MA's), (56, 32729), (64, 32759), (81, 32804), (101, 32849), (138, 32948), (159, 33008), (170, 33044), (179, 33068), (204, 33113), (209, 33119), (237, 33170), (258, 33209), (259, 33212), (265, 33224), (305, 33263), (314, 33296), (336, 33377), (361, 33470), (374, 33506), (378, 33515), (380, 33521), (459, 33746),

Gene: Kratio_26 Start: 23714, Stop: 24778, Start Num: 76
Candidate Starts for Kratio_26:
(Start: 76 @23714 has 170 MA's), (110, 23804), (121, 23834), (147, 23894), (165, 23942), (177, 23981), (188, 23999), (239, 24083), (267, 24131), (277, 24149), (317, 24224), (337, 24290), (359, 24380), (360, 24383), (361, 24386), (372, 24419), (394, 24518), (395, 24521), (432, 24605), (437, 24617), (470, 24734),

Gene: Kraw_29 Start: 24509, Stop: 25513, Start Num: 76
Candidate Starts for Kraw_29:
(Start: 76 @24509 has 170 MA's), (Start: 104 @24578 has 1 MA's), (146, 24677), (162, 24722), (165, 24728), (185, 24782), (191, 24791), (212, 24827), (237, 24872), (247, 24893), (252, 24899), (254, 24902), (336, 25034), (337, 25037), (371, 25160), (380, 25181), (465, 25448),

Gene: Kropertea_21 Start: 21486, Stop: 22568, Start Num: 76
Candidate Starts for Kropertea_21:
(Start: 76 @21486 has 170 MA's), (170, 21738), (189, 21777), (195, 21786), (196, 21789), (210, 21816), (215, 21825), (228, 21849), (258, 21903), (259, 21906), (302, 21960), (340, 22080), (343, 22113), (344, 22116), (366, 22176), (380, 22215), (382, 22230), (417, 22341), (439, 22389),

Gene: Krueger_28 Start: 22638, Stop: 23633, Start Num: 76
Candidate Starts for Krueger_28:
(47, 22548), (Start: 76 @22638 has 170 MA's), (Start: 115 @22737 has 1 MA's), (Start: 117 @22743 has 3 MA's), (174, 22893), (221, 22974), (237, 22998), (336, 23160), (337, 23163), (358, 23247), (374, 23292), (467, 23571), (471, 23592), (473, 23610),

Gene: Ksquared_22 Start: 21321, Stop: 22358, Start Num: 76
Candidate Starts for Ksquared_22:
(68, 21297), (Start: 73 @21318 has 102 MA's), (Start: 76 @21321 has 170 MA's), (85, 21345), (142, 21483), (156, 21525), (181, 21594), (218, 21654), (243, 21699), (267, 21744), (314, 21825), (331, 21882), (337, 21906), (366, 22011), (385, 22083), (403, 22128), (465, 22293),

Gene: Kurt_44 Start: 35989, Stop: 37047, Start Num: 80
Candidate Starts for Kurt_44:
(1, 34549), (2, 34846), (5, 35077), (13, 35446), (40, 35824), (42, 35839), (Start: 46 @35857 has 10 MA's), (Start: 80 @35989 has 33 MA's), (217, 36334), (245, 36385), (277, 36433),

Gene: Kwksand96_32 Start: 31938, Stop: 33098, Start Num: 48
Candidate Starts for Kwksand96_32:
(Start: 48 @31938 has 84 MA's), (81, 32049), (101, 32094), (138, 32193), (159, 32253), (170, 32289), (179, 32313), (204, 32358), (209, 32364), (237, 32415), (258, 32454), (259, 32457), (265, 32469), (275, 32484), (305, 32508), (314, 32541), (336, 32622), (344, 32667), (361, 32715), (374, 32751), (378, 32760), (380, 32766), (459, 32991),

Gene: Labelle_37 Start: 32043, Stop: 33083, Start Num: 98
Candidate Starts for Labelle_37:
(Start: 98 @32043 has 3 MA's), (130, 32121), (158, 32199), (272, 32412), (276, 32418), (303, 32496), (331, 32589), (339, 32616),

Gene: Labeouficaum_32 Start: 31933, Stop: 33093, Start Num: 48
Candidate Starts for Labeouficaum_32:
(Start: 48 @31933 has 84 MA's), (81, 32044), (101, 32089), (138, 32188), (159, 32248), (170, 32284), (179, 32308), (204, 32353), (209, 32359), (237, 32410), (258, 32449), (259, 32452), (265, 32464), (275, 32479), (305, 32503), (314, 32536), (336, 32617), (344, 32662), (361, 32710), (374, 32746), (378, 32755), (380, 32761), (459, 32986),

Gene: Lahirium_30 Start: 38622, Stop: 39524, Start Num: 137
Candidate Starts for Lahirium_30:
(Start: 137 @38622 has 35 MA's), (193, 38760), (223, 38829), (252, 38877), (301, 38940), (314, 38976), (358, 39144), (447, 39378), (454, 39396), (473, 39501),

Gene: Lambo_33 Start: 29541, Stop: 30587, Start Num: 93
Candidate Starts for Lambo_33:
(Start: 93 @29541 has 33 MA's), (143, 29655), (151, 29676), (173, 29751), (181, 29766), (288, 29964), (307, 30030), (311, 30042), (331, 30111), (371, 30252),

Gene: Langerak_22 Start: 21280, Stop: 22320, Start Num: 73
Candidate Starts for Langerak_22:
(68, 21259), (Start: 73 @21280 has 102 MA's), (Start: 76 @21283 has 170 MA's), (85, 21307), (142, 21445), (156, 21487), (181, 21556), (218, 21616), (243, 21661), (267, 21706), (314, 21787), (331, 21844), (337, 21868), (366, 21973), (385, 22045), (403, 22090), (465, 22255),

Gene: Lars_33 Start: 32801, Stop: 33964, Start Num: 48

Candidate Starts for Lars_33:
(29, 32654), (Start: 46 @32795 has 10 MA's), (Start: 48 @32801 has 84 MA's), (56, 32840), (64, 32870), (81, 32915), (101, 32960), (138, 33059), (159, 33119), (170, 33155), (179, 33179), (204, 33224), (209, 33230), (237, 33281), (258, 33320), (259, 33323), (265, 33335), (275, 33350), (305, 33374), (314, 33407), (336, 33488), (361, 33581), (374, 33617), (378, 33626), (380, 33632), (391, 33692), (459, 33857),

Gene: Larva_28 Start: 23878, Stop: 24942, Start Num: 76
Candidate Starts for Larva_28:
(Start: 76 @23878 has 170 MA's), (110, 23968), (121, 23998), (145, 24052), (147, 24058), (165, 24106), (177, 24145), (188, 24163), (191, 24166), (239, 24247), (267, 24295), (277, 24313), (337, 24454), (359, 24544), (360, 24547), (361, 24550), (372, 24583), (378, 24595), (394, 24682), (395, 24685), (437, 24781), (470, 24898),

Gene: LastHope_28 Start: 22491, Stop: 23498, Start Num: 76
Candidate Starts for LastHope_28:
(Start: 76 @22491 has 170 MA's), (165, 22710), (170, 22731), (197, 22785), (221, 22827), (258, 22887), (314, 22935), (329, 22983), (336, 23013), (361, 23109), (366, 23121), (380, 23160), (440, 23331), (443, 23343),

Gene: LaterM_28 Start: 23256, Stop: 24269, Start Num: 73
Candidate Starts for LaterM_28:
(Start: 73 @23256 has 102 MA's), (Start: 117 @23367 has 3 MA's), (165, 23481), (221, 23598), (246, 23640), (254, 23652), (314, 23706), (336, 23784), (361, 23880), (366, 23892), (380, 23931), (396, 24012), (411, 24045), (443, 24114), (468, 24210),

Gene: LavAbarElk_31 Start: 27993, Stop: 29042, Start Num: 93
Candidate Starts for LavAbarElk_31:
(Start: 93 @27993 has 33 MA's), (143, 28107), (151, 28128), (173, 28203), (181, 28218), (212, 28281), (244, 28341), (293, 28443), (314, 28506), (362, 28677), (407, 28812), (445, 28905),

Gene: Lavahound_26 Start: 23365, Stop: 24360, Start Num: 73
Candidate Starts for Lavahound_26:
(64, 23329), (Start: 73 @23365 has 102 MA's), (111, 23455), (Start: 117 @23476 has 3 MA's), (162, 23584), (165, 23590), (170, 23611), (177, 23632), (321, 23839), (336, 23893), (337, 23896), (358, 23980), (359, 23983), (380, 24040), (412, 24148),

Gene: LeMond_27 Start: 22583, Stop: 23551, Start Num: 75
Candidate Starts for LeMond_27:
(Start: 75 @22583 has 4 MA's), (133, 22718), (143, 22745), (145, 22751), (153, 22772), (155, 22778), (169, 22820), (188, 22865), (212, 22907), (221, 22922), (314, 23030), (339, 23114), (431, 23390),

Gene: Lea83_28 Start: 23930, Stop: 24949, Start Num: 76
Candidate Starts for Lea83_28:
(20, 23549), (21, 23561), (24, 23597), (26, 23621), (33, 23741), (47, 23840), (59, 23897), (Start: 76 @23930 has 170 MA's), (88, 23963), (133, 24062), (Start: 135 @24068 has 4 MA's), (140, 24080), (160, 24137), (162, 24143), (185, 24203), (221, 24266), (227, 24275), (247, 24311), (261, 24332), (267, 24344), (317, 24383), (336, 24452), (362, 24551), (380, 24599), (387, 24635), (408, 24698), (421, 24740), (443, 24788), (457, 24830), (473, 24926),

Gene: Lebo14_29 Start: 24599, Stop: 25603, Start Num: 76
Candidate Starts for Lebo14_29:

(Start: 76 @24599 has 170 MA's), (146, 24767), (151, 24779), (162, 24812), (165, 24818), (185, 24872), (191, 24881), (237, 24962), (247, 24983), (252, 24989), (254, 24992), (336, 25124), (337, 25127), (371, 25250),

Gene: Lephleur_33 Start: 32688, Stop: 33857, Start Num: 46
Candidate Starts for Lephleur_33:
(29, 32547), (Start: 46 @32688 has 10 MA's), (Start: 48 @32694 has 84 MA's), (56, 32733), (64, 32763), (81, 32808), (101, 32853), (138, 32952), (159, 33012), (170, 33048), (179, 33072), (204, 33117), (209, 33123), (237, 33174), (258, 33213), (259, 33216), (265, 33228), (275, 33243), (305, 33267), (314, 33300), (336, 33381), (361, 33474), (374, 33510), (378, 33519), (380, 33525), (459, 33750),

Gene: Leston_27 Start: 24063, Stop: 25130, Start Num: 76
Candidate Starts for Leston_27:
(Start: 76 @24063 has 170 MA's), (120, 24180), (145, 24237), (161, 24285), (165, 24291), (188, 24348), (191, 24351), (198, 24366), (218, 24393), (239, 24432), (242, 24435), (249, 24447), (251, 24450), (252, 24453), (261, 24468), (297, 24513), (299, 24519), (317, 24573), (331, 24621), (340, 24651), (351, 24696), (385, 24825), (397, 24879),

Gene: Lidong_30 Start: 38356, Stop: 39258, Start Num: 137
Candidate Starts for Lidong_30:
(Start: 137 @38356 has 35 MA's), (193, 38494), (223, 38563), (252, 38611), (301, 38674), (314, 38710), (358, 38878), (454, 39130), (473, 39235),

Gene: LilDirt_26 Start: 23840, Stop: 24904, Start Num: 76
Candidate Starts for LilDirt_26:
(Start: 76 @23840 has 170 MA's), (110, 23930), (120, 23957), (147, 24020), (165, 24068), (177, 24107), (188, 24125), (218, 24170), (239, 24209), (267, 24257), (277, 24275), (317, 24350), (337, 24416), (359, 24506), (360, 24509), (361, 24512), (372, 24545), (394, 24644), (395, 24647), (432, 24731), (437, 24743), (470, 24860),

Gene: LilMcDreamy_28 Start: 31675, Stop: 32907, Start Num: 48
Candidate Starts for LilMcDreamy_28:
(6, 30913), (7, 30922), (8, 31042), (11, 31252), (Start: 48 @31675 has 84 MA's), (56, 31714), (58, 31720), (81, 31792), (119, 31897), (131, 31918), (154, 31978), (171, 32035), (192, 32077), (202, 32101), (235, 32158), (258, 32200), (271, 32224), (287, 32251), (296, 32329), (336, 32464), (339, 32470), (375, 32593), (391, 32653), (398, 32671), (415, 32707), (419, 32713), (431, 32737), (443, 32761),

Gene: LilPharaoh_24 Start: 22900, Stop: 23907, Start Num: 76
Candidate Starts for LilPharaoh_24:
(61, 22849), (65, 22861), (Start: 76 @22900 has 170 MA's), (103, 22960), (133, 23032), (153, 23086), (160, 23107), (221, 23236), (247, 23281), (251, 23284), (313, 23341), (314, 23344), (328, 23389), (337, 23425), (361, 23521), (366, 23533), (397, 23653), (452, 23785),

Gene: LilSmirk_33 Start: 32688, Stop: 33851, Start Num: 48
Candidate Starts for LilSmirk_33:
(29, 32541), (Start: 46 @32682 has 10 MA's), (Start: 48 @32688 has 84 MA's), (56, 32727), (64, 32757), (81, 32802), (101, 32847), (138, 32946), (159, 33006), (170, 33042), (179, 33066), (204, 33111), (209, 33117), (237, 33168), (258, 33207), (259, 33210), (265, 33222), (275, 33237), (305, 33261), (314, 33294), (336, 33375), (361, 33468), (374, 33504), (378, 33513), (380, 33519), (459, 33744),

Gene: Lila22_32 Start: 29496, Stop: 30542, Start Num: 93
Candidate Starts for Lila22_32:
(Start: 93 @29496 has 33 MA's), (143, 29610), (151, 29631), (173, 29706), (181, 29721), (212, 29784), (293, 29946), (371, 30207),

Gene: LilhomieP_30 Start: 26992, Stop: 28047, Start Num: 76
Candidate Starts for LilhomieP_30:
(Start: 76 @26992 has 170 MA's), (159, 27205), (171, 27241), (212, 27304), (251, 27376), (267, 27406), (279, 27427), (307, 27463), (317, 27499), (331, 27547), (336, 27568), (339, 27574), (342, 27604), (343, 27607), (358, 27655), (423, 27844), (431, 27865), (450, 27919),

Gene: LindNT_28 Start: 23290, Stop: 24303, Start Num: 73
Candidate Starts for LindNT_28:
(62, 23245), (Start: 73 @23290 has 102 MA's), (Start: 117 @23401 has 3 MA's), (165, 23515), (221, 23632), (246, 23674), (254, 23686), (314, 23740), (336, 23818), (357, 23902), (361, 23914), (366, 23926), (380, 23965), (468, 24244),

Gene: LizLemon_33 Start: 32810, Stop: 33973, Start Num: 48
Candidate Starts for LizLemon_33:
(29, 32663), (Start: 46 @32804 has 10 MA's), (Start: 48 @32810 has 84 MA's), (56, 32849), (64, 32879), (81, 32924), (101, 32969), (138, 33068), (159, 33128), (170, 33164), (179, 33188), (204, 33233), (209, 33239), (237, 33290), (258, 33329), (259, 33332), (265, 33344), (275, 33359), (305, 33383), (314, 33416), (336, 33497), (344, 33542), (361, 33590), (374, 33626), (378, 33635), (380, 33641), (459, 33866),

Gene: Llorens_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Llorens_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Lollipop1437_50 Start: 36962, Stop: 38023, Start Num: 80
Candidate Starts for Lollipop1437_50:
(Start: 80 @36962 has 33 MA's), (150, 37148), (232, 37334), (234, 37337), (339, 37547),

Gene: LongHai_26 Start: 22028, Stop: 23053, Start Num: 90
Candidate Starts for LongHai_26:
(Start: 90 @22028 has 2 MA's), (130, 22118), (237, 22337), (238, 22340), (244, 22352), (303, 22484), (314, 22520), (331, 22571), (342, 22628), (422, 22865), (463, 22991),

Gene: Longacauda_32 Start: 32077, Stop: 33237, Start Num: 48
Candidate Starts for Longacauda_32:
(Start: 48 @32077 has 84 MA's), (81, 32188), (101, 32233), (138, 32332), (159, 32392), (170, 32428), (179, 32452), (204, 32497), (209, 32503), (237, 32554), (258, 32593), (259, 32596), (265, 32608), (275, 32623), (305, 32647), (314, 32680), (336, 32761), (344, 32806), (361, 32854), (374, 32890), (378, 32899), (380, 32905), (459, 33130),

Gene: LordVader_21 Start: 19492, Stop: 20529, Start Num: 76
Candidate Starts for LordVader_21:
(Start: 76 @19492 has 170 MA's), (85, 19516), (142, 19654), (156, 19696), (181, 19765), (218, 19825), (243, 19870), (267, 19915), (312, 19984), (331, 20053), (337, 20077), (366, 20182), (385, 20254), (403, 20299),

Gene: LuckyLeo_32 Start: 28919, Stop: 29908, Start Num: 115
Candidate Starts for LuckyLeo_32:
(Start: 93 @28862 has 33 MA's), (Start: 115 @28919 has 1 MA's), (155, 29009), (157, 29018), (159, 29024), (162, 29033), (181, 29087), (288, 29285), (307, 29351), (311, 29363), (331, 29432), (371, 29573), (407, 29681),

Gene: Luker_31 Start: 38575, Stop: 39477, Start Num: 137
Candidate Starts for Luker_31:
(Start: 137 @38575 has 35 MA's), (193, 38713), (223, 38782), (252, 38830), (301, 38893), (314, 38929), (358, 39097), (447, 39331), (454, 39349), (473, 39454),

Gene: Lunahalos_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Lunahalos_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: MacKat_28 Start: 23333, Stop: 24346, Start Num: 73
Candidate Starts for MacKat_28:
(17, 22889), (62, 23288), (Start: 73 @23333 has 102 MA's), (Start: 117 @23444 has 3 MA's), (165, 23558), (221, 23675), (246, 23717), (254, 23729), (314, 23783), (336, 23861), (357, 23945), (361, 23957), (366, 23969), (377, 23999), (380, 24008), (411, 24122), (443, 24191),

Gene: MacnCheese_29 Start: 24319, Stop: 25308, Start Num: 76
Candidate Starts for MacnCheese_29:
(47, 24199), (59, 24256), (Start: 76 @24319 has 170 MA's), (88, 24352), (133, 24448), (Start: 135 @24454 has 4 MA's), (161, 24526), (237, 24676), (247, 24697), (264, 24724), (337, 24841), (357, 24919), (361, 24931), (362, 24934), (461, 25231),

Gene: Maco6_23 Start: 20985, Stop: 22013, Start Num: 90
Candidate Starts for Maco6_23:
(Start: 90 @20985 has 2 MA's), (130, 21075), (158, 21144), (161, 21153), (203, 21231), (237, 21294), (238, 21297), (303, 21441), (314, 21477), (331, 21528), (342, 21585), (422, 21825), (463, 21951),

Gene: Madruga_36 Start: 31712, Stop: 32752, Start Num: 98
Candidate Starts for Madruga_36:
(Start: 98 @31712 has 3 MA's), (130, 31790), (158, 31868), (272, 32081), (276, 32087), (303, 32165), (331, 32258), (339, 32285),

Gene: Majeke_22 Start: 21305, Stop: 22342, Start Num: 76
Candidate Starts for Majeke_22:
(68, 21281), (Start: 73 @21302 has 102 MA's), (Start: 76 @21305 has 170 MA's), (85, 21329), (142, 21467), (156, 21509), (181, 21578), (218, 21638), (243, 21683), (267, 21728), (314, 21809), (331, 21866), (337, 21890), (366, 21995), (385, 22067), (403, 22112), (465, 22277),

Gene: MakCheese_24 Start: 21714, Stop: 22658, Start Num: 140
Candidate Starts for MakCheese_24:
(Start: 95 @21606 has 3 MA's), (140, 21714), (194, 21855), (225, 21927), (244, 21960), (317, 22134), (329, 22173), (331, 22182), (366, 22305), (378, 22338), (392, 22410), (416, 22458), (420, 22461), (445, 22524),

Gene: MalagasyRose_28 Start: 22698, Stop: 23777, Start Num: 76
Candidate Starts for MalagasyRose_28:

(Start: 76 @22698 has 170 MA's), (84, 22719), (118, 22812), (139, 22854), (140, 22857), (145, 22872), (165, 22926), (171, 22947), (177, 22965), (218, 23028), (230, 23049), (252, 23088), (267, 23115), (277, 23133), (317, 23211), (322, 23229), (380, 23424), (389, 23484), (439, 23607),

Gene: Malithi_22 Start: 21221, Stop: 22261, Start Num: 73
Candidate Starts for Malithi_22:
(68, 21200), (Start: 73 @21221 has 102 MA's), (Start: 76 @21224 has 170 MA's), (85, 21248), (142, 21386), (156, 21428), (181, 21497), (218, 21557), (243, 21602), (267, 21647), (314, 21728), (331, 21785), (337, 21809), (366, 21914), (385, 21986), (403, 22031), (465, 22196),

Gene: Malthus_30 Start: 24509, Stop: 25513, Start Num: 76
Candidate Starts for Malthus_30:
(Start: 76 @24509 has 170 MA's), (Start: 104 @24578 has 1 MA's), (146, 24677), (162, 24722), (165, 24728), (185, 24782), (191, 24791), (212, 24827), (237, 24872), (247, 24893), (252, 24899), (254, 24902), (336, 25034), (337, 25037), (371, 25160), (380, 25181), (440, 25352), (465, 25448),

Gene: Mangethe_22 Start: 21305, Stop: 22342, Start Num: 76
Candidate Starts for Mangethe_22:
(68, 21281), (Start: 73 @21302 has 102 MA's), (Start: 76 @21305 has 170 MA's), (85, 21329), (142, 21467), (156, 21509), (181, 21578), (218, 21638), (243, 21683), (267, 21728), (314, 21809), (331, 21866), (337, 21890), (366, 21995), (385, 22067), (403, 22112), (465, 22277),

Gene: Manilisa_32 Start: 27398, Stop: 28474, Start Num: 99
Candidate Starts for Manilisa_32:
(Start: 99 @27398 has 1 MA's), (144, 27515), (155, 27545), (173, 27608), (210, 27683), (212, 27686), (248, 27755), (255, 27767), (297, 27860), (331, 27962), (335, 27977), (350, 28034),

Gene: Mao1_27 Start: 28750, Stop: 29910, Start Num: 48
Candidate Starts for Mao1_27:
(Start: 48 @28750 has 84 MA's), (54, 28786), (64, 28819), (81, 28864), (101, 28909), (102, 28912), (170, 29104), (179, 29128), (184, 29134), (209, 29179), (210, 29182), (237, 29230), (271, 29293), (273, 29296), (306, 29329), (329, 29404), (336, 29434), (371, 29557), (375, 29566), (378, 29572), (475, 29893),

Gene: Marcoliusprime_25 Start: 21282, Stop: 22277, Start Num: 76
Candidate Starts for Marcoliusprime_25:
(33, 21099), (47, 21198), (Start: 76 @21282 has 170 MA's), (108, 21363), (Start: 115 @21387 has 1 MA's), (143, 21447), (162, 21501), (165, 21507), (212, 21609), (213, 21612), (243, 21660), (246, 21666), (270, 21708), (314, 21732), (339, 21816), (359, 21900), (380, 21957), (473, 22254),

Gene: MarkPhew_28 Start: 22462, Stop: 23448, Start Num: 76
Candidate Starts for MarkPhew_28:
(Start: 76 @22462 has 170 MA's), (116, 22567), (145, 22630), (153, 22651), (155, 22657), (160, 22672), (169, 22699), (197, 22759), (212, 22786), (277, 22891), (337, 22990), (358, 23074), (371, 23113), (424, 23263), (449, 23317), (457, 23332),

Gene: Marshawn_29 Start: 23145, Stop: 24104, Start Num: 76
Candidate Starts for Marshawn_29:
(Start: 76 @23145 has 170 MA's), (87, 23175), (141, 23301), (146, 23316), (160, 23355), (169, 23382), (215, 23475), (221, 23484), (246, 23526), (314, 23592), (336, 23670), (337, 23673), (362, 23766), (399, 23874), (413, 23910),

Gene: Mask_28 Start: 28743, Stop: 29903, Start Num: 48

Candidate Starts for Mask_28:
(Start: 48 @28743 has 84 MA's), (54, 28779), (64, 28812), (81, 28857), (101, 28902), (102, 28905), (170, 29097), (179, 29121), (184, 29127), (200, 29160), (204, 29166), (209, 29172), (210, 29175), (237, 29223), (271, 29286), (273, 29289), (306, 29322), (329, 29397), (336, 29427), (371, 29550), (375, 29559), (378, 29565),

Gene: Maskar_32 Start: 31924, Stop: 33084, Start Num: 48
Candidate Starts for Maskar_32:
(Start: 48 @31924 has 84 MA's), (81, 32035), (101, 32080), (138, 32179), (159, 32239), (170, 32275), (179, 32299), (204, 32344), (209, 32350), (237, 32401), (258, 32440), (259, 32443), (265, 32455), (275, 32470), (305, 32494), (314, 32527), (336, 32608), (344, 32653), (361, 32701), (374, 32737), (378, 32746), (380, 32752), (459, 32977),

Gene: MasterPo_33 Start: 32691, Stop: 33860, Start Num: 46
Candidate Starts for MasterPo_33:
(Start: 46 @32691 has 10 MA's), (Start: 48 @32697 has 84 MA's), (56, 32736), (64, 32766), (81, 32811), (101, 32856), (138, 32955), (159, 33015), (170, 33051), (179, 33075), (204, 33120), (209, 33126), (237, 33177), (258, 33216), (259, 33219), (265, 33231), (275, 33246), (305, 33270), (314, 33303), (336, 33384), (344, 33429), (361, 33477), (374, 33513), (378, 33522), (380, 33528), (459, 33753),

Gene: McMater_28 Start: 22728, Stop: 23693, Start Num: 73
Candidate Starts for McMater_28:
(Start: 73 @22728 has 102 MA's), (77, 22734), (140, 22887), (146, 22905), (153, 22923), (165, 22956), (177, 22998), (212, 23058), (221, 23073), (336, 23259), (337, 23262), (356, 23334), (380, 23403), (392, 23451), (399, 23466), (414, 23499), (434, 23538), (467, 23637),

Gene: Mdavu_24 Start: 22888, Stop: 23895, Start Num: 76
Candidate Starts for Mdavu_24:
(61, 22837), (65, 22849), (Start: 76 @22888 has 170 MA's), (103, 22948), (133, 23020), (153, 23074), (160, 23095), (221, 23224), (247, 23269), (251, 23272), (313, 23329), (314, 23332), (328, 23377), (337, 23413), (361, 23509), (366, 23521), (397, 23641), (452, 23773),

Gene: MeaningOfLife_28 Start: 23292, Stop: 24305, Start Num: 73
Candidate Starts for MeaningOfLife_28:
(17, 22848), (62, 23247), (Start: 73 @23292 has 102 MA's), (Start: 117 @23403 has 3 MA's), (162, 23511), (165, 23517), (221, 23634), (246, 23676), (254, 23688), (314, 23742), (336, 23820), (357, 23904), (361, 23916), (366, 23928), (380, 23967), (411, 24081), (443, 24150),

Gene: Megiddo_22 Start: 21561, Stop: 22601, Start Num: 76
Candidate Starts for Megiddo_22:
(Start: 76 @21561 has 170 MA's), (140, 21720), (142, 21726), (156, 21768), (178, 21834), (181, 21837), (218, 21897), (243, 21942), (267, 21987), (314, 22068), (331, 22125), (337, 22149), (366, 22254), (385, 22326), (403, 22371),

Gene: Megsy_28 Start: 23293, Stop: 24306, Start Num: 73
Candidate Starts for Megsy_28:
(17, 22849), (62, 23248), (Start: 73 @23293 has 102 MA's), (Start: 117 @23404 has 3 MA's), (165, 23518), (221, 23635), (246, 23677), (254, 23689), (314, 23743), (336, 23821), (357, 23905), (361, 23917), (366, 23929), (380, 23968), (468, 24247),

Gene: MelsMeow_32 Start: 31973, Stop: 33133, Start Num: 48
Candidate Starts for MelsMeow_32:

(Start: 48 @31973 has 84 MA's), (81, 32084), (101, 32129), (138, 32228), (159, 32288), (170, 32324), (179, 32348), (204, 32393), (209, 32399), (237, 32450), (258, 32489), (259, 32492), (265, 32504), (275, 32519), (305, 32543), (314, 32576), (336, 32657), (344, 32702), (361, 32750), (374, 32786), (378, 32795), (380, 32801), (459, 33026),

Gene: MerCougar_46 Start: 36238, Stop: 37293, Start Num: 80
Candidate Starts for MerCougar_46:
(60, 36175), (Start: 80 @36238 has 33 MA's), (160, 36451), (234, 36610), (246, 36634), (366, 36922), (465, 37222), (473, 37267),

Gene: Mesh1_33 Start: 32382, Stop: 33542, Start Num: 48
Candidate Starts for Mesh1_33:
(Start: 48 @32382 has 84 MA's), (81, 32493), (101, 32538), (138, 32637), (159, 32697), (170, 32733), (179, 32757), (204, 32802), (209, 32808), (237, 32859), (258, 32898), (259, 32901), (265, 32913), (275, 32928), (305, 32952), (314, 32985), (336, 33066), (344, 33111), (361, 33159), (374, 33195), (378, 33204), (380, 33210), (459, 33435),

Gene: Meyran_29 Start: 27126, Stop: 28187, Start Num: 105
Candidate Starts for Meyran_29:
(Start: 96 @27099 has 5 MA's), (Start: 105 @27126 has 1 MA's), (173, 27309), (248, 27456), (297, 27561), (323, 27642), (331, 27669), (335, 27684), (350, 27747), (366, 27807), (450, 28044),

Gene: MichelleMyBell_22 Start: 20029, Stop: 21114, Start Num: 76
Candidate Starts for MichelleMyBell_22:
(55, 19963), (Start: 76 @20029 has 170 MA's), (142, 20191), (181, 20302), (218, 20362), (243, 20407), (314, 20533), (317, 20542), (331, 20590),

Gene: Milly_25 Start: 21282, Stop: 22277, Start Num: 76
Candidate Starts for Milly_25:
(33, 21099), (47, 21198), (Start: 76 @21282 has 170 MA's), (108, 21363), (Start: 115 @21387 has 1 MA's), (143, 21447), (162, 21501), (165, 21507), (212, 21609), (213, 21612), (243, 21660), (246, 21666), (270, 21708), (314, 21732), (339, 21816), (359, 21900), (380, 21957), (473, 22254),

Gene: Mima20_31 Start: 29243, Stop: 30292, Start Num: 93
Candidate Starts for Mima20_31:
(Start: 93 @29243 has 33 MA's), (126, 29318), (143, 29357), (151, 29378), (173, 29453), (181, 29468), (212, 29531), (244, 29591), (293, 29693), (362, 29927), (407, 30062), (445, 30155),

Gene: Minos_31 Start: 38098, Stop: 39000, Start Num: 137
Candidate Starts for Minos_31:
(Start: 137 @38098 has 35 MA's), (193, 38236), (223, 38305), (252, 38353), (301, 38416), (314, 38452), (358, 38620), (454, 38872), (473, 38977),

Gene: Miryou_27 Start: 23918, Stop: 24985, Start Num: 76
Candidate Starts for Miryou_27:
(Start: 76 @23918 has 170 MA's), (120, 24035), (145, 24092), (161, 24140), (165, 24146), (188, 24203), (191, 24206), (198, 24221), (218, 24248), (239, 24287), (242, 24290), (249, 24302), (251, 24305), (252, 24308), (261, 24323), (297, 24368), (299, 24374), (317, 24428), (331, 24476), (340, 24506), (351, 24551), (385, 24680), (397, 24734),

Gene: MissDaisy_29 Start: 24351, Stop: 25355, Start Num: 76
Candidate Starts for MissDaisy_29:

(Start: 76 @24351 has 170 MA's), (146, 24519), (162, 24564), (165, 24570), (185, 24624), (237, 24714), (247, 24735), (254, 24744), (336, 24876), (337, 24879), (371, 25002), (380, 25023), (465, 25290),

Gene: Mitti_29 Start: 24509, Stop: 25513, Start Num: 76
Candidate Starts for Mitti_29:
(Start: 76 @24509 has 170 MA's), (146, 24677), (162, 24722), (165, 24728), (185, 24782), (237, 24872), (247, 24893), (254, 24902), (336, 25034), (337, 25037), (356, 25112), (380, 25181), (455, 25391),

Gene: MoiGyank_35 Start: 29924, Stop: 30973, Start Num: 93
Candidate Starts for MoiGyank_35:
(Start: 93 @29924 has 33 MA's), (126, 29999), (143, 30038), (151, 30059), (173, 30134), (181, 30149), (212, 30212), (244, 30272), (293, 30374), (314, 30437), (362, 30608), (445, 30836),

Gene: MrPhizzler_33 Start: 32085, Stop: 33245, Start Num: 48
Candidate Starts for MrPhizzler_33:
(Start: 48 @32085 has 84 MA's), (81, 32196), (101, 32241), (138, 32340), (159, 32400), (170, 32436), (179, 32460), (204, 32505), (209, 32511), (237, 32562), (258, 32601), (259, 32604), (265, 32616), (275, 32631), (305, 32655), (314, 32688), (336, 32769), (344, 32814), (361, 32862), (374, 32898), (378, 32907), (380, 32913), (459, 33138),

Gene: MrWormie_30 Start: 37259, Stop: 38161, Start Num: 137
Candidate Starts for MrWormie_30:
(Start: 137 @37259 has 35 MA's), (193, 37397), (223, 37466), (252, 37514), (301, 37577), (314, 37613), (358, 37781), (454, 38033), (473, 38138),

Gene: Msay19_34 Start: 38032, Stop: 38934, Start Num: 137
Candidate Starts for Msay19_34:
(Start: 137 @38032 has 35 MA's), (175, 38137), (193, 38167), (206, 38197), (211, 38209), (261, 38293), (301, 38341), (314, 38377), (337, 38458), (354, 38512), (379, 38602), (429, 38749), (475, 38917),

Gene: Muddy_25 Start: 21935, Stop: 22960, Start Num: 90
Candidate Starts for Muddy_25:
(Start: 90 @21935 has 2 MA's), (130, 22025), (203, 22181), (237, 22244), (238, 22247), (303, 22391), (314, 22427), (331, 22478), (342, 22535), (409, 22733), (422, 22772), (463, 22898),

Gene: Mufasa_25 Start: 21302, Stop: 22327, Start Num: 76
Candidate Starts for Mufasa_25:
(47, 21218), (Start: 76 @21302 has 170 MA's), (Start: 115 @21407 has 1 MA's), (143, 21467), (162, 21521), (165, 21527), (199, 21608), (202, 21614), (212, 21629), (213, 21632), (339, 21836), (472, 22295),

Gene: Mulch_27 Start: 23315, Stop: 24382, Start Num: 100
Candidate Starts for Mulch_27:
(Start: 100 @23315 has 14 MA's), (180, 23525), (276, 23693), (323, 23834), (328, 23849), (331, 23861), (337, 23885), (357, 23969), (369, 24005), (406, 24116),

Gene: Murucutumbu_28 Start: 23275, Stop: 24288, Start Num: 73
Candidate Starts for Murucutumbu_28:
(Start: 73 @23275 has 102 MA's), (Start: 117 @23386 has 3 MA's), (165, 23500), (221, 23617), (246, 23659), (314, 23725), (336, 23803), (337, 23806), (361, 23899), (366, 23911), (371, 23929), (380,

23950), (411, 24064), (443, 24133), (468, 24229),

Gene: Mynx_28 Start: 23339, Stop: 24352, Start Num: 73
Candidate Starts for Mynx_28:
(17, 22895), (62, 23294), (Start: 73 @23339 has 102 MA's), (165, 23564), (221, 23681), (246, 23723), (254, 23735), (314, 23789), (336, 23867), (361, 23963), (366, 23975), (377, 24005), (380, 24014), (411, 24128), (443, 24197),

Gene: Nadeem_27 Start: 23315, Stop: 24382, Start Num: 100
Candidate Starts for Nadeem_27:
(Start: 100 @23315 has 14 MA's), (180, 23525), (276, 23693), (323, 23834), (328, 23849), (331, 23861), (337, 23885), (357, 23969), (406, 24116),

Gene: NancyRae_27 Start: 23321, Stop: 24388, Start Num: 100
Candidate Starts for NancyRae_27:
(Start: 100 @23321 has 14 MA's), (180, 23531), (276, 23699), (323, 23840), (328, 23855), (331, 23867), (337, 23891), (357, 23975), (369, 24011), (406, 24122),

Gene: NatB6_44 Start: 35025, Stop: 36083, Start Num: 80
Candidate Starts for NatB6_44:
(1, 33585), (2, 33882), (5, 34113), (13, 34482), (40, 34860), (42, 34875), (Start: 46 @34893 has 10 MA's), (Start: 80 @35025 has 33 MA's), (217, 35370), (245, 35421), (277, 35469),

Gene: Nathan_33 Start: 32407, Stop: 33567, Start Num: 48
Candidate Starts for Nathan_33:
(Start: 48 @32407 has 84 MA's), (81, 32518), (101, 32563), (138, 32662), (159, 32722), (170, 32758), (179, 32782), (204, 32827), (209, 32833), (237, 32884), (258, 32923), (259, 32926), (265, 32938), (275, 32953), (305, 32977), (314, 33010), (336, 33091), (344, 33136), (361, 33184), (374, 33220), (378, 33229), (380, 33235), (459, 33460),

Gene: Nazo_22 Start: 21497, Stop: 22546, Start Num: 76
Candidate Starts for Nazo_22:
(Start: 76 @21497 has 170 MA's), (84, 21518), (142, 21659), (153, 21689), (159, 21710), (187, 21773), (213, 21812), (308, 21971), (342, 22103), (374, 22199), (466, 22484),

Gene: Necropolis_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for Necropolis_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: Neighly_28 Start: 23877, Stop: 24941, Start Num: 76
Candidate Starts for Neighly_28:
(Start: 76 @23877 has 170 MA's), (110, 23967), (121, 23997), (145, 24051), (147, 24057), (165, 24105), (177, 24144), (188, 24162), (191, 24165), (239, 24246), (267, 24294), (277, 24312), (337, 24453), (359, 24543), (360, 24546), (361, 24549), (372, 24582), (378, 24594), (394, 24681), (395, 24684), (437, 24780), (470, 24897),

Gene: Neoevie_30 Start: 38362, Stop: 39264, Start Num: 137
Candidate Starts for Neoevie_30:
(Start: 137 @38362 has 35 MA's), (193, 38500), (223, 38569), (252, 38617), (301, 38680), (314, 38716), (317, 38725), (358, 38884), (447, 39118), (454, 39136), (473, 39241),

Gene: Newt_31 Start: 38589, Stop: 39491, Start Num: 137
Candidate Starts for Newt_31:
(Start: 137 @38589 has 35 MA's), (193, 38727), (223, 38796), (252, 38844), (301, 38907), (314, 38943), (358, 39111), (454, 39363), (473, 39468),

Gene: Nibb_27 Start: 22603, Stop: 23589, Start Num: 76
Candidate Starts for Nibb_27:
(Start: 76 @22603 has 170 MA's), (116, 22708), (141, 22759), (145, 22771), (153, 22792), (155, 22798), (160, 22813), (169, 22840), (197, 22900), (212, 22927), (267, 23020), (277, 23032), (334, 23119), (337, 23131), (358, 23215), (371, 23254), (381, 23281), (401, 23350), (424, 23404),

Gene: Nikao_24 Start: 22900, Stop: 23907, Start Num: 76
Candidate Starts for Nikao_24:
(61, 22849), (65, 22861), (Start: 76 @22900 has 170 MA's), (103, 22960), (133, 23032), (153, 23086), (160, 23107), (221, 23236), (247, 23281), (251, 23284), (313, 23341), (314, 23344), (328, 23389), (337, 23425), (361, 23521), (366, 23533), (397, 23653), (452, 23785),

Gene: Niklas_28 Start: 22731, Stop: 23696, Start Num: 73
Candidate Starts for Niklas_28:
(Start: 73 @22731 has 102 MA's), (77, 22737), (140, 22890), (146, 22908), (153, 22926), (165, 22959), (177, 23001), (212, 23061), (221, 23076), (336, 23262), (337, 23265), (356, 23337), (380, 23406), (392, 23454), (399, 23469), (414, 23502), (434, 23541), (467, 23640),

Gene: Nimi13_30 Start: 38107, Stop: 39009, Start Num: 137
Candidate Starts for Nimi13_30:
(Start: 137 @38107 has 35 MA's), (193, 38245), (223, 38314), (252, 38362), (301, 38425), (314, 38461), (317, 38470), (358, 38629), (447, 38863), (454, 38881), (473, 38986),

Gene: NorManre_34 Start: 29125, Stop: 30174, Start Num: 93
Candidate Starts for NorManre_34:
(Start: 93 @29125 has 33 MA's), (126, 29200), (143, 29239), (151, 29260), (173, 29335), (181, 29350), (212, 29413), (314, 29638), (362, 29809), (445, 30037), (456, 30082),

Gene: NosilaM_48 Start: 35951, Stop: 37006, Start Num: 80
Candidate Starts for NosilaM_48:
(Start: 80 @35951 has 33 MA's), (160, 36164), (246, 36347), (366, 36635), (473, 36980),

Gene: NovaSharks_32 Start: 27111, Stop: 28208, Start Num: 93
Candidate Starts for NovaSharks_32:
(Start: 93 @27111 has 33 MA's), (143, 27225), (183, 27318), (201, 27351), (203, 27354), (205, 27357), (213, 27378), (218, 27390), (244, 27438), (278, 27501), (295, 27555), (325, 27651), (335, 27693), (393, 27927), (413, 27966), (446, 28053), (478, 28200),

Gene: November_26 Start: 23628, Stop: 24632, Start Num: 73
Candidate Starts for November_26:
(23, 23256), (64, 23592), (Start: 73 @23628 has 102 MA's), (113, 23730), (160, 23841), (170, 23874), (221, 23970), (330, 24129), (359, 24243), (405, 24396), (443, 24489),

Gene: NovumRegina_44 Start: 35355, Stop: 36413, Start Num: 80
Candidate Starts for NovumRegina_44:
(1, 33915), (2, 34212), (5, 34443), (13, 34812), (40, 35190), (42, 35205), (Start: 46 @35223 has 10 MA's), (Start: 80 @35355 has 33 MA's), (217, 35700), (245, 35751), (277, 35799),

Gene: Nutello_24 Start: 22900, Stop: 23907, Start Num: 76
Candidate Starts for Nutello_24:
(61, 22849), (65, 22861), (Start: 76 @22900 has 170 MA's), (103, 22960), (133, 23032), (153, 23086), (160, 23107), (221, 23236), (247, 23281), (251, 23284), (313, 23341), (314, 23344), (328, 23389), (337, 23425), (361, 23521), (366, 23533), (397, 23653), (452, 23785),

Gene: Nyceirae_31 Start: 26839, Stop: 27909, Start Num: 96
Candidate Starts for Nyceirae_31:
(Start: 96 @26839 has 5 MA's), (127, 26920), (140, 26944), (173, 27049), (203, 27106), (212, 27127), (238, 27175), (297, 27301), (314, 27352), (331, 27409), (335, 27424), (366, 27541),

Gene: OkiRoe_27 Start: 23934, Stop: 25001, Start Num: 76
Candidate Starts for OkiRoe_27:
(Start: 76 @23934 has 170 MA's), (120, 24051), (145, 24108), (161, 24156), (165, 24162), (191, 24222), (198, 24237), (218, 24264), (239, 24303), (242, 24306), (249, 24318), (251, 24321), (252, 24324), (261, 24339), (297, 24384), (299, 24390), (317, 24444), (331, 24492), (340, 24522), (351, 24567), (385, 24696), (397, 24750),

Gene: OmniCritical_29 Start: 24494, Stop: 25498, Start Num: 76
Candidate Starts for OmniCritical_29:
(Start: 76 @24494 has 170 MA's), (146, 24662), (162, 24707), (165, 24713), (185, 24767), (191, 24776), (237, 24857), (247, 24878), (252, 24884), (254, 24887), (336, 25019), (337, 25022), (371, 25145), (455, 25376),

Gene: Omnicron_28 Start: 22797, Stop: 23876, Start Num: 76
Candidate Starts for Omnicron_28:
(Start: 76 @22797 has 170 MA's), (86, 22824), (145, 22971), (147, 22977), (165, 23025), (177, 23064), (188, 23082), (198, 23100), (239, 23166), (261, 23202), (274, 23226), (277, 23232), (321, 23325), (347, 23427), (359, 23472), (378, 23517), (379, 23520), (382, 23538), (386, 23559), (393, 23601), (402, 23619), (439, 23715), (440, 23718), (475, 23859),

Gene: Opia_33 Start: 32684, Stop: 33847, Start Num: 48
Candidate Starts for Opia_33:
(29, 32537), (Start: 46 @32678 has 10 MA's), (Start: 48 @32684 has 84 MA's), (56, 32723), (64, 32753), (81, 32798), (101, 32843), (138, 32942), (159, 33002), (170, 33038), (179, 33062), (204, 33107), (209, 33113), (237, 33164), (258, 33203), (259, 33206), (265, 33218), (275, 33233), (305, 33257), (314, 33290), (336, 33371), (361, 33464), (374, 33500), (378, 33509), (380, 33515), (459, 33740),

Gene: Orion_33 Start: 32366, Stop: 33526, Start Num: 48
Candidate Starts for Orion_33:
(Start: 48 @32366 has 84 MA's), (81, 32477), (101, 32522), (138, 32621), (159, 32681), (170, 32717), (179, 32741), (204, 32786), (209, 32792), (237, 32843), (258, 32882), (259, 32885), (265, 32897), (275, 32912), (305, 32936), (314, 32969), (336, 33050), (344, 33095), (361, 33143), (374, 33179), (378, 33188), (380, 33194), (459, 33419),

Gene: Oscar_27 Start: 22584, Stop: 23552, Start Num: 75
Candidate Starts for Oscar_27:
(Start: 75 @22584 has 4 MA's), (143, 22746), (145, 22752), (153, 22773), (155, 22779), (169, 22821), (188, 22866), (212, 22908), (221, 22923), (314, 23031), (339, 23115), (431, 23391),

Gene: OtterstedtS21_33 Start: 29200, Stop: 30249, Start Num: 93
Candidate Starts for OtterstedtS21_33:

(Start: 93 @29200 has 33 MA's), (143, 29314), (157, 29356), (173, 29410), (181, 29425), (212, 29488), (244, 29548), (293, 29650), (314, 29713), (362, 29884), (445, 30112),

Gene: Outis_46 Start: 35932, Stop: 36987, Start Num: 80
Candidate Starts for Outis_46:
(60, 35869), (Start: 80 @35932 has 33 MA's), (160, 36145), (234, 36304), (246, 36328), (366, 36616), (465, 36916), (473, 36961),

Gene: PG1_33 Start: 32379, Stop: 33539, Start Num: 48
Candidate Starts for PG1_33:
(Start: 48 @32379 has 84 MA's), (81, 32490), (101, 32535), (138, 32634), (159, 32694), (170, 32730), (179, 32754), (204, 32799), (209, 32805), (237, 32856), (258, 32895), (259, 32898), (265, 32910), (275, 32925), (305, 32949), (314, 32982), (336, 33063), (344, 33108), (361, 33156), (374, 33192), (378, 33201), (380, 33207), (459, 33432),

Gene: Padfoot_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Padfoot_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (Start: 117 @23467 has 3 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (366, 23992), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Padpat_28 Start: 23316, Stop: 24329, Start Num: 73
Candidate Starts for Padpat_28:
(17, 22872), (62, 23271), (Start: 73 @23316 has 102 MA's), (165, 23541), (221, 23658), (246, 23700), (254, 23712), (314, 23766), (336, 23844), (361, 23940), (366, 23952), (377, 23982), (380, 23991), (411, 24105), (443, 24174),

Gene: Panchino_21 Start: 20180, Stop: 21217, Start Num: 76
Candidate Starts for Panchino_21:
(Start: 76 @20180 has 170 MA's), (140, 20336), (142, 20342), (178, 20450), (191, 20468), (243, 20558), (267, 20603), (314, 20684), (337, 20765), (359, 20852), (366, 20870), (385, 20942), (403, 20987), (465, 21152),

Gene: Paola_27 Start: 23933, Stop: 25000, Start Num: 76
Candidate Starts for Paola_27:
(Start: 76 @23933 has 170 MA's), (120, 24050), (145, 24107), (161, 24155), (165, 24161), (188, 24218), (191, 24221), (198, 24236), (218, 24263), (239, 24302), (242, 24305), (249, 24317), (251, 24320), (252, 24323), (261, 24338), (297, 24383), (299, 24389), (317, 24443), (331, 24491), (340, 24521), (351, 24566), (385, 24695), (397, 24749),

Gene: Parada_27 Start: 23315, Stop: 24382, Start Num: 100
Candidate Starts for Parada_27:
(Start: 100 @23315 has 14 MA's), (180, 23525), (276, 23693), (323, 23834), (328, 23849), (331, 23861), (337, 23885), (357, 23969), (369, 24005), (406, 24116),

Gene: ParvusTarda_33 Start: 28670, Stop: 29716, Start Num: 93
Candidate Starts for ParvusTarda_33:
(Start: 93 @28670 has 33 MA's), (143, 28784), (151, 28805), (173, 28880), (181, 28895), (212, 28958), (293, 29120), (362, 29354),

Gene: Patience_38 Start: 32593, Stop: 33633, Start Num: 98
Candidate Starts for Patience_38:

(Start: 98 @32593 has 3 MA's), (130, 32671), (158, 32749), (272, 32962), (276, 32968), (303, 33046), (331, 33139), (339, 33166),

Gene: Patio_48 Start: 36198, Stop: 37259, Start Num: 80
Candidate Starts for Patio_48:
(Start: 80 @36198 has 33 MA's), (150, 36384), (232, 36570), (234, 36573), (339, 36783),

Gene: Patos_34 Start: 29125, Stop: 30174, Start Num: 93
Candidate Starts for Patos_34:
(Start: 93 @29125 has 33 MA's), (126, 29200), (143, 29239), (151, 29260), (173, 29335), (181, 29350), (212, 29413), (314, 29638), (362, 29809), (445, 30037), (456, 30082),

Gene: Patt_29 Start: 24327, Stop: 25331, Start Num: 76
Candidate Starts for Patt_29:
(Start: 76 @24327 has 170 MA's), (146, 24495), (162, 24540), (165, 24546), (185, 24600), (237, 24690), (247, 24711), (254, 24720), (336, 24852), (337, 24855), (378, 24993), (390, 25062),

Gene: Peanam_28 Start: 22728, Stop: 23693, Start Num: 73
Candidate Starts for Peanam_28:
(Start: 73 @22728 has 102 MA's), (77, 22734), (140, 22887), (146, 22905), (153, 22923), (165, 22956), (177, 22998), (212, 23058), (221, 23073), (254, 23127), (336, 23259), (337, 23262), (356, 23334), (380, 23403), (392, 23451), (399, 23466), (414, 23499), (434, 23538), (467, 23637),

Gene: PeanutPie_22 Start: 21330, Stop: 22343, Start Num: 85
Candidate Starts for PeanutPie_22:
(68, 21282), (Start: 73 @21303 has 102 MA's), (Start: 76 @21306 has 170 MA's), (85, 21330), (142, 21468), (156, 21510), (181, 21579), (218, 21639), (243, 21684), (267, 21729), (314, 21810), (331, 21867), (337, 21891), (366, 21996), (385, 22068), (403, 22113), (465, 22278),

Gene: Peel_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Peel_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: PegLeg_31 Start: 26991, Stop: 28046, Start Num: 76
Candidate Starts for PegLeg_31:
(Start: 76 @26991 has 170 MA's), (159, 27204), (171, 27240), (212, 27303), (251, 27375), (267, 27405), (279, 27426), (307, 27462), (317, 27498), (331, 27546), (336, 27567), (339, 27573), (342, 27603), (343, 27606), (358, 27654), (423, 27843), (431, 27864), (450, 27918),

Gene: Pemberton_48 Start: 33038, Stop: 34129, Start Num: 80
Candidate Starts for Pemberton_48:
(Start: 80 @33038 has 33 MA's), (92, 33071), (129, 33167), (199, 33350), (232, 33419), (314, 33557), (318, 33569), (319, 33572),

Gene: Phalm_22 Start: 21561, Stop: 22601, Start Num: 76
Candidate Starts for Phalm_22:
(Start: 76 @21561 has 170 MA's), (140, 21720), (142, 21726), (156, 21768), (178, 21834), (181, 21837), (218, 21897), (243, 21942), (267, 21987), (314, 22068), (331, 22125), (337, 22149), (366, 22254), (385, 22326), (403, 22371),

Gene: Phantasmagoria_33 Start: 32695, Stop: 33858, Start Num: 48

Candidate Starts for Phantasmagoria_33:
(Start: 46 @32689 has 10 MA's), (Start: 48 @32695 has 84 MA's), (56, 32734), (64, 32764), (81, 32809), (101, 32854), (138, 32953), (159, 33013), (170, 33049), (179, 33073), (204, 33118), (209, 33124), (237, 33175), (258, 33214), (259, 33217), (265, 33229), (275, 33244), (305, 33268), (314, 33301), (336, 33382), (344, 33427), (361, 33475), (374, 33511), (378, 33520), (380, 33526), (459, 33751),

Gene: Pharb_27 Start: 23529, Stop: 24596, Start Num: 72
Candidate Starts for Pharb_27:
(Start: 72 @23529 has 4 MA's), (88, 23565), (91, 23568), (Start: 117 @23634 has 3 MA's), (133, 23661), (151, 23709), (160, 23736), (165, 23748), (170, 23769), (202, 23835), (254, 23919), (298, 23976), (300, 23979), (336, 24111), (337, 24114), (341, 24147), (349, 24162), (379, 24255), (399, 24345),

Gene: Phareon_33 Start: 32078, Stop: 33238, Start Num: 48
Candidate Starts for Phareon_33:
(Start: 48 @32078 has 84 MA's), (81, 32189), (101, 32234), (138, 32333), (159, 32393), (170, 32429), (179, 32453), (204, 32498), (209, 32504), (237, 32555), (258, 32594), (259, 32597), (265, 32609), (275, 32624), (305, 32648), (314, 32681), (336, 32762), (344, 32807), (361, 32855), (374, 32891), (378, 32900), (380, 32906), (459, 33131),

Gene: PhatCats2014_33 Start: 32383, Stop: 33543, Start Num: 48
Candidate Starts for PhatCats2014_33:
(Start: 48 @32383 has 84 MA's), (81, 32494), (101, 32539), (138, 32638), (159, 32698), (170, 32734), (179, 32758), (204, 32803), (209, 32809), (237, 32860), (258, 32899), (259, 32902), (265, 32914), (275, 32929), (305, 32953), (314, 32986), (336, 33067), (344, 33112), (361, 33160), (374, 33196), (378, 33205), (380, 33211), (459, 33436),

Gene: Phayonce_22 Start: 21448, Stop: 22485, Start Num: 76
Candidate Starts for Phayonce_22:
(Start: 76 @21448 has 170 MA's), (142, 21610), (159, 21661), (171, 21697), (187, 21724), (218, 21772), (251, 21829), (270, 21865), (336, 22018), (342, 22054), (366, 22126), (410, 22261), (431, 22315), (460, 22393),

Gene: Phegasus_22 Start: 21305, Stop: 22342, Start Num: 76
Candidate Starts for Phegasus_22:
(68, 21281), (Start: 73 @21302 has 102 MA's), (Start: 76 @21305 has 170 MA's), (85, 21329), (142, 21467), (156, 21509), (181, 21578), (218, 21638), (243, 21683), (267, 21728), (314, 21809), (331, 21866), (337, 21890), (366, 21995), (385, 22067), (403, 22112), (465, 22277),

Gene: PhelpsODU_28 Start: 22720, Stop: 23781, Start Num: 76
Candidate Starts for PhelpsODU_28:
(47, 22630), (59, 22687), (Start: 76 @22720 has 170 MA's), (Start: 115 @22819 has 1 MA's), (160, 22927), (165, 22939), (170, 22960), (221, 23056), (300, 23170), (313, 23221), (341, 23338), (418, 23581), (426, 23599), (443, 23638),

Gene: Phineas_22 Start: 21670, Stop: 22707, Start Num: 76
Candidate Starts for Phineas_22:
(Start: 76 @21670 has 170 MA's), (142, 21835), (156, 21877), (178, 21943), (181, 21946), (191, 21961), (243, 22048), (267, 22093), (314, 22174), (331, 22231), (337, 22255), (366, 22360), (385, 22432), (403, 22477),

Gene: Phishy_30 Start: 26793, Stop: 27842, Start Num: 95

Candidate Starts for Phishy_30:
(Start: 95 @26793 has 3 MA's), (173, 27003), (212, 27081), (272, 27189), (323, 27339), (327, 27351), (331, 27366), (382, 27543), (409, 27618),

Gene: Phomeo_43 Start: 35624, Stop: 36682, Start Num: 80
Candidate Starts for Phomeo_43:
(1, 34184), (2, 34481), (5, 34712), (13, 35081), (40, 35459), (42, 35474), (Start: 46 @35492 has 10 MA's), (Start: 80 @35624 has 33 MA's), (217, 35969), (245, 36020), (277, 36068),

Gene: Phrank_28 Start: 22670, Stop: 23731, Start Num: 76
Candidate Starts for Phrank_28:
(Start: 76 @22670 has 170 MA's), (109, 22748), (110, 22751), (Start: 115 @22769 has 1 MA's), (160, 22877), (169, 22904), (170, 22910), (221, 23006), (230, 23018), (300, 23120), (313, 23171), (341, 23288), (418, 23531), (426, 23549), (443, 23588),

Gene: Phrann_21 Start: 20409, Stop: 21479, Start Num: 73
Candidate Starts for Phrann_21:
(Start: 73 @20409 has 102 MA's), (Start: 76 @20412 has 170 MA's), (142, 20574), (156, 20616), (181, 20685), (218, 20745), (243, 20790), (267, 20835), (312, 20904), (314, 20916), (331, 20973), (337, 20997), (384, 21168),

Gene: Piatt_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Piatt_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (Start: 117 @23467 has 3 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (366, 23992), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Piglet_0032 Start: 32482, Stop: 33642, Start Num: 48
Candidate Starts for Piglet_0032:
(Start: 48 @32482 has 84 MA's), (81, 32593), (101, 32638), (138, 32737), (159, 32797), (170, 32833), (179, 32857), (204, 32902), (209, 32908), (237, 32959), (258, 32998), (259, 33001), (265, 33013), (275, 33028), (305, 33052), (314, 33085), (336, 33166), (344, 33211), (361, 33259), (374, 33295), (378, 33304), (380, 33310), (459, 33535),

Gene: Pimento_27 Start: 22790, Stop: 23857, Start Num: 96
Candidate Starts for Pimento_27:
(52, 22655), (Start: 96 @22790 has 5 MA's), (190, 23009), (244, 23111), (268, 23153), (276, 23165), (323, 23309), (331, 23336), (337, 23360), (370, 23483), (392, 23573), (406, 23591),

Gene: Pinkman_32 Start: 31931, Stop: 33091, Start Num: 48
Candidate Starts for Pinkman_32:
(Start: 48 @31931 has 84 MA's), (81, 32042), (101, 32087), (138, 32186), (159, 32246), (170, 32282), (179, 32306), (204, 32351), (209, 32357), (237, 32408), (258, 32447), (259, 32450), (265, 32462), (275, 32477), (305, 32501), (314, 32534), (336, 32615), (344, 32660), (361, 32708), (374, 32744), (378, 32753), (380, 32759), (459, 32984),

Gene: Pipsqueak_33 Start: 32373, Stop: 33533, Start Num: 48
Candidate Starts for Pipsqueak_33:
(Start: 48 @32373 has 84 MA's), (81, 32484), (101, 32529), (138, 32628), (159, 32688), (170, 32724), (179, 32748), (204, 32793), (209, 32799), (237, 32850), (258, 32889), (259, 32892), (265, 32904), (275, 32919), (305, 32943), (314, 32976), (336, 33057), (344, 33102), (361, 33150), (374, 33186), (378, 33195), (380, 33201), (459, 33426),

Gene: Pisa1_27 Start: 23391, Stop: 24404, Start Num: 73
Candidate Starts for Pisa1_27:
(Start: 73 @23391 has 102 MA's), (Start: 117 @23502 has 3 MA's), (161, 23607), (165, 23616), (197, 23691), (221, 23733), (246, 23775), (254, 23787), (314, 23841), (336, 23919), (361, 24015), (366, 24027), (374, 24051), (443, 24249), (468, 24345),

Gene: Pisa4_27 Start: 23391, Stop: 24404, Start Num: 73
Candidate Starts for Pisa4_27:
(Start: 73 @23391 has 102 MA's), (Start: 117 @23502 has 3 MA's), (161, 23607), (165, 23616), (197, 23691), (221, 23733), (246, 23775), (254, 23787), (314, 23841), (336, 23919), (361, 24015), (366, 24027), (374, 24051), (443, 24249), (468, 24345),

Gene: Pixie_28 Start: 23724, Stop: 24788, Start Num: 76
Candidate Starts for Pixie_28:
(10, 23172), (14, 23238), (16, 23301), (18, 23313), (19, 23334), (22, 23376), (33, 23535), (47, 23634), (59, 23691), (Start: 76 @23724 has 170 MA's), (133, 23856), (Start: 135 @23862 has 4 MA's), (160, 23931), (162, 23937), (185, 23997), (197, 24018), (204, 24033), (252, 24111), (336, 24303), (341, 24339), (357, 24387), (371, 24429), (411, 24555),

Gene: Pleakley_53 Start: 35398, Stop: 36480, Start Num: 80
Candidate Starts for Pleakley_53:
(Start: 80 @35398 has 33 MA's), (122, 35515), (214, 35743), (258, 35827), (261, 35833), (283, 35872), (303, 35887), (318, 35929), (363, 36094), (420, 36274), (465, 36412),

Gene: Pokerus_27 Start: 23273, Stop: 24286, Start Num: 73
Candidate Starts for Pokerus_27:
(17, 22829), (62, 23228), (Start: 73 @23273 has 102 MA's), (Start: 117 @23384 has 3 MA's), (165, 23498), (221, 23615), (246, 23657), (254, 23669), (314, 23723), (336, 23801), (361, 23897), (366, 23909), (377, 23939), (380, 23948), (411, 24062), (443, 24131),

Gene: Poland_34 Start: 38011, Stop: 38913, Start Num: 137
Candidate Starts for Poland_34:
(Start: 137 @38011 has 35 MA's), (175, 38116), (193, 38146), (206, 38176), (211, 38188), (261, 38272), (301, 38320), (314, 38356), (337, 38437), (354, 38491), (379, 38581), (429, 38728), (475, 38896),

Gene: Polkaroo_22 Start: 21315, Stop: 22352, Start Num: 76
Candidate Starts for Polkaroo_22:
(68, 21291), (Start: 73 @21312 has 102 MA's), (Start: 76 @21315 has 170 MA's), (85, 21339), (142, 21477), (156, 21519), (181, 21588), (218, 21648), (243, 21693), (267, 21738), (314, 21819), (331, 21876), (337, 21900), (366, 22005), (385, 22077), (403, 22122), (465, 22287),

Gene: Pops_33 Start: 32387, Stop: 33547, Start Num: 48
Candidate Starts for Pops_33:
(Start: 48 @32387 has 84 MA's), (81, 32498), (101, 32543), (138, 32642), (159, 32702), (170, 32738), (179, 32762), (204, 32807), (209, 32813), (237, 32864), (258, 32903), (259, 32906), (265, 32918), (275, 32933), (305, 32957), (314, 32990), (336, 33071), (344, 33116), (361, 33164), (374, 33200), (378, 33209), (380, 33215), (459, 33440),

Gene: PrinceCharming_33 Start: 32795, Stop: 33964, Start Num: 46
Candidate Starts for PrinceCharming_33:
(29, 32654), (Start: 46 @32795 has 10 MA's), (Start: 48 @32801 has 84 MA's), (56, 32840), (64, 32870), (81, 32915), (101, 32960), (138, 33059), (159, 33119), (170, 33155), (179, 33179), (204,

33224), (209, 33230), (237, 33281), (258, 33320), (259, 33323), (265, 33335), (275, 33350), (305, 33374), (314, 33407), (336, 33488), (361, 33581), (374, 33617), (378, 33626), (380, 33632), (459, 33857),

Gene: Prithvi_28 Start: 23290, Stop: 24303, Start Num: 73
Candidate Starts for Prithvi_28:
(62, 23245), (Start: 73 @23290 has 102 MA's), (Start: 117 @23401 has 3 MA's), (165, 23515), (221, 23632), (246, 23674), (254, 23686), (314, 23740), (336, 23818), (357, 23902), (361, 23914), (366, 23926), (380, 23965), (468, 24244),

Gene: Psycho_28 Start: 24008, Stop: 25072, Start Num: 76
Candidate Starts for Psycho_28:
(Start: 76 @24008 has 170 MA's), (110, 24098), (121, 24128), (145, 24182), (147, 24188), (165, 24236), (177, 24275), (188, 24293), (191, 24296), (239, 24377), (267, 24425), (277, 24443), (337, 24584), (359, 24674), (360, 24677), (361, 24680), (372, 24713), (378, 24725), (394, 24812), (395, 24815), (437, 24911), (470, 25028),

Gene: Pupper_126 Start: 83200, Stop: 84090, Start Num: 135
Candidate Starts for Pupper_126:
(Start: 135 @83200 has 4 MA's), (269, 83473), (380, 83770), (396, 83839), (443, 83935),

Gene: Purky_22 Start: 21124, Stop: 22170, Start Num: 76
Candidate Starts for Purky_22:
(Start: 76 @21124 has 170 MA's), (159, 21337), (218, 21448), (243, 21490), (245, 21493), (282, 21562), (336, 21694), (342, 21730), (379, 21838), (431, 21991), (434, 22000), (440, 22012),

Gene: Qhanda_30 Start: 24605, Stop: 25609, Start Num: 76
Candidate Starts for Qhanda_30:
(Start: 76 @24605 has 170 MA's), (146, 24773), (162, 24818), (165, 24824), (185, 24878), (191, 24887), (237, 24968), (247, 24989), (252, 24995), (254, 24998), (336, 25130), (337, 25133), (371, 25256),

Gene: Quby_21 Start: 21546, Stop: 22553, Start Num: 107
Candidate Starts for Quby_21:
(Start: 76 @21468 has 170 MA's), (107, 21546), (170, 21720), (189, 21759), (210, 21798), (228, 21831), (270, 21909), (302, 21942), (350, 22104), (426, 22338), (439, 22371), (447, 22395), (457, 22440),

Gene: QuincyRose_27 Start: 23336, Stop: 24349, Start Num: 73
Candidate Starts for QuincyRose_27:
(17, 22892), (62, 23291), (Start: 73 @23336 has 102 MA's), (Start: 117 @23447 has 3 MA's), (165, 23561), (221, 23678), (246, 23720), (254, 23732), (311, 23771), (314, 23786), (336, 23864), (357, 23948), (361, 23960), (366, 23972), (380, 24011), (411, 24125), (443, 24194),

Gene: Ramen_28 Start: 23322, Stop: 24335, Start Num: 73
Candidate Starts for Ramen_28:
(17, 22878), (62, 23277), (Start: 73 @23322 has 102 MA's), (Start: 117 @23433 has 3 MA's), (165, 23547), (221, 23664), (246, 23706), (254, 23718), (314, 23772), (336, 23850), (361, 23946), (377, 23988), (380, 23997), (411, 24111), (443, 24180),

Gene: Ranch_33 Start: 28024, Stop: 29073, Start Num: 93
Candidate Starts for Ranch_33:

(Start: 93 @28024 has 33 MA's), (143, 28138), (157, 28180), (173, 28234), (181, 28249), (212, 28312), (314, 28537), (362, 28708), (445, 28936), (456, 28981),

Gene: Rando14_28 Start: 22698, Stop: 23777, Start Num: 76
Candidate Starts for Rando14_28:
(Start: 76 @22698 has 170 MA's), (82, 22716), (121, 22818), (145, 22872), (146, 22875), (147, 22878), (165, 22926), (176, 22962), (177, 22965), (178, 22968), (198, 23001), (261, 23103), (267, 23115), (274, 23127), (277, 23133), (284, 23145), (303, 23166), (327, 23244), (339, 23286), (347, 23328), (359, 23373), (393, 23502),

Gene: Rapunzel97_28 Start: 23323, Stop: 24336, Start Num: 73
Candidate Starts for Rapunzel97_28:
(17, 22879), (28, 23026), (62, 23278), (Start: 73 @23323 has 102 MA's), (Start: 117 @23434 has 3 MA's), (165, 23548), (221, 23665), (246, 23707), (254, 23719), (314, 23773), (336, 23851), (361, 23947), (366, 23959), (377, 23989), (380, 23998), (411, 24112), (443, 24181),

Gene: RavenCo17_26 Start: 23835, Stop: 24911, Start Num: 96
Candidate Starts for RavenCo17_26:
(52, 23700), (Start: 96 @23835 has 5 MA's), (152, 23973), (173, 24045), (191, 24075), (268, 24225), (276, 24237), (292, 24279), (294, 24291), (314, 24348), (331, 24399), (350, 24471), (378, 24564), (439, 24726), (470, 24867),

Gene: Raymond7_21 Start: 20415, Stop: 21500, Start Num: 76
Candidate Starts for Raymond7_21:
(Start: 76 @20415 has 170 MA's), (142, 20577), (181, 20688), (187, 20697), (191, 20703), (218, 20748), (243, 20793), (314, 20919), (317, 20928), (331, 20976),

Gene: RazorC_31 Start: 27503, Stop: 28600, Start Num: 93
Candidate Starts for RazorC_31:
(Start: 93 @27503 has 33 MA's), (143, 27617), (183, 27710), (201, 27743), (203, 27746), (205, 27749), (213, 27770), (218, 27782), (244, 27830), (278, 27893), (295, 27947), (325, 28043), (335, 28085), (393, 28319), (413, 28358), (446, 28445), (478, 28592),

Gene: Rebel_21 Start: 19868, Stop: 20905, Start Num: 76
Candidate Starts for Rebel_21:
(32, 19631), (36, 19673), (39, 19703), (45, 19733), (53, 19793), (69, 19847), (Start: 76 @19868 has 170 MA's), (142, 20030), (156, 20072), (181, 20141), (218, 20201), (243, 20246), (267, 20291), (312, 20360), (331, 20429), (337, 20453), (366, 20558), (385, 20630), (403, 20675),

Gene: RedRaider_52 Start: 38220, Stop: 39278, Start Num: 80
Candidate Starts for RedRaider_52:
(Start: 80 @38220 has 33 MA's), (146, 38394), (164, 38448), (241, 38610), (277, 38664), (366, 38907), (465, 39207),

Gene: Reindeer_30 Start: 26952, Stop: 28001, Start Num: 76
Candidate Starts for Reindeer_30:
(Start: 76 @26952 has 170 MA's), (89, 26988), (159, 27165), (187, 27228), (188, 27231), (216, 27270), (222, 27285), (252, 27336), (279, 27384), (317, 27453), (331, 27501), (336, 27522), (339, 27528), (342, 27558), (366, 27630), (410, 27765), (431, 27819), (448, 27870), (451, 27876), (460, 27909),

Gene: Reptar3000_29 Start: 24320, Stop: 25324, Start Num: 76
Candidate Starts for Reptar3000_29:

(Start: 76 @24320 has 170 MA's), (146, 24488), (162, 24533), (165, 24539), (185, 24593), (191, 24602), (237, 24683), (247, 24704), (254, 24713), (336, 24845), (337, 24848), (378, 24986), (390, 25055), (465, 25259),

Gene: Rhinoforte_33 Start: 32804, Stop: 33967, Start Num: 48
Candidate Starts for Rhinoforte_33:
(29, 32657), (Start: 46 @32798 has 10 MA's), (Start: 48 @32804 has 84 MA's), (56, 32843), (64, 32873), (81, 32918), (101, 32963), (138, 33062), (159, 33122), (170, 33158), (179, 33182), (204, 33227), (209, 33233), (237, 33284), (258, 33323), (259, 33326), (265, 33338), (275, 33353), (305, 33377), (314, 33410), (336, 33491), (344, 33536), (361, 33584), (374, 33620), (378, 33629), (380, 33635), (391, 33695), (459, 33860),

Gene: Richo_28 Start: 22728, Stop: 23693, Start Num: 73
Candidate Starts for Richo_28:
(Start: 73 @22728 has 102 MA's), (77, 22734), (140, 22887), (146, 22905), (153, 22923), (165, 22956), (177, 22998), (212, 23058), (221, 23073), (336, 23259), (337, 23262), (356, 23334), (380, 23403), (392, 23451), (399, 23466), (414, 23499), (434, 23538), (467, 23637),

Gene: Rimu_33 Start: 32105, Stop: 33265, Start Num: 48
Candidate Starts for Rimu_33:
(Start: 48 @32105 has 84 MA's), (81, 32216), (101, 32261), (138, 32360), (159, 32420), (170, 32456), (179, 32480), (204, 32525), (209, 32531), (237, 32582), (258, 32621), (259, 32624), (265, 32636), (275, 32651), (305, 32675), (314, 32708), (336, 32789), (344, 32834), (361, 32882), (374, 32918), (378, 32927), (380, 32933), (459, 33158),

Gene: Rinkes_34 Start: 33816, Stop: 35012, Start Num: 48
Candidate Starts for Rinkes_34:
(38, 33759), (43, 33795), (Start: 48 @33816 has 84 MA's), (57, 33861), (69, 33906), (81, 33939), (89, 33963), (101, 33984), (Start: 104 @33999 has 1 MA's), (Start: 105 @34005 has 1 MA's), (119, 34044), (122, 34050), (131, 34065), (Start: 135 @34074 has 4 MA's), (148, 34110), (154, 34125), (156, 34134), (166, 34161), (167, 34164), (172, 34188), (174, 34194), (204, 34251), (208, 34254), (233, 34302), (235, 34305), (240, 34317), (256, 34344), (261, 34353), (262, 34356), (285, 34380), (296, 34431), (309, 34470), (314, 34491), (335, 34563), (336, 34569), (367, 34677), (375, 34698), (380, 34710), (415, 34812), (420, 34821), (458, 34914),

Gene: Rosebush_33 Start: 32811, Stop: 33974, Start Num: 48
Candidate Starts for Rosebush_33:
(29, 32664), (Start: 46 @32805 has 10 MA's), (Start: 48 @32811 has 84 MA's), (56, 32850), (64, 32880), (81, 32925), (101, 32970), (138, 33069), (159, 33129), (170, 33165), (179, 33189), (204, 33234), (209, 33240), (237, 33291), (258, 33330), (259, 33333), (265, 33345), (275, 33360), (305, 33384), (314, 33417), (336, 33498), (361, 33591), (374, 33627), (378, 33636), (380, 33642), (391, 33702), (459, 33867),

Gene: Rosmarinus_28 Start: 23344, Stop: 24357, Start Num: 73
Candidate Starts for Rosmarinus_28:
(17, 22900), (62, 23299), (Start: 73 @23344 has 102 MA's), (165, 23569), (221, 23686), (246, 23728), (254, 23740), (314, 23794), (336, 23872), (361, 23968), (377, 24010), (380, 24019), (411, 24133), (443, 24202),

Gene: Rota_32 Start: 29482, Stop: 30456, Start Num: 126
Candidate Starts for Rota_32:
(Start: 93 @29407 has 33 MA's), (126, 29482), (143, 29521), (157, 29563), (173, 29617), (181, 29632), (212, 29695), (314, 29920), (362, 30091), (445, 30319),

Gene: Rubeelu_22 Start: 19998, Stop: 21038, Start Num: 74
Candidate Starts for Rubeelu_22:
(55, 19932), (Start: 74 @19998 has 5 MA's), (140, 20157), (142, 20163), (178, 20271), (181, 20274),
(191, 20289), (243, 20379), (267, 20424), (314, 20505), (331, 20562), (337, 20586), (359, 20673),
(366, 20691), (385, 20763), (403, 20808), (465, 20973),

Gene: Rukungu_33 Start: 29795, Stop: 30766, Start Num: 126
Candidate Starts for Rukungu_33:
(Start: 93 @29720 has 33 MA's), (126, 29795), (143, 29834), (151, 29855), (173, 29930), (181, 29945),
(212, 30008), (244, 30068), (314, 30233), (362, 30404),

Gene: Rumi_32 Start: 27114, Stop: 28211, Start Num: 93
Candidate Starts for Rumi_32:
(Start: 93 @27114 has 33 MA's), (143, 27228), (183, 27321), (201, 27354), (203, 27357), (205, 27360),
(213, 27381), (218, 27393), (244, 27441), (278, 27504), (295, 27558), (325, 27654), (335, 27696),
(368, 27822), (393, 27930), (413, 27969), (446, 28056), (478, 28203),

Gene: Ruthiejr_29 Start: 24262, Stop: 25296, Start Num: 74
Candidate Starts for Ruthiejr_29:
(55, 24196), (Start: 74 @24262 has 5 MA's), (140, 24418), (141, 24421), (156, 24466), (159, 24475),
(191, 24550), (243, 24637), (267, 24682), (314, 24763), (331, 24820), (337, 24844), (366, 24949),
(385, 25021), (410, 25081), (465, 25231),

Gene: SCentae_125 Start: 83353, Stop: 84243, Start Num: 135
Candidate Starts for SCentae_125:
(Start: 135 @83353 has 4 MA's), (443, 84088),

Gene: Salvus_26 Start: 22028, Stop: 23053, Start Num: 90
Candidate Starts for Salvus_26:
(Start: 90 @22028 has 2 MA's), (130, 22118), (237, 22337), (238, 22340), (244, 22352), (303, 22484),
(314, 22520), (331, 22571), (342, 22628), (422, 22865), (463, 22991),

Gene: SamScheppers_27 Start: 24552, Stop: 25625, Start Num: 73
Candidate Starts for SamScheppers_27:
(Start: 73 @24552 has 102 MA's), (Start: 76 @24555 has 170 MA's), (168, 24795), (181, 24831), (187,
24840), (191, 24846), (218, 24891), (243, 24936), (252, 24954), (267, 24981), (314, 25062), (331,
25119), (337, 25143),

Gene: Sampudon_33 Start: 30054, Stop: 31103, Start Num: 93
Candidate Starts for Sampudon_33:
(Start: 93 @30054 has 33 MA's), (143, 30168), (151, 30189), (173, 30264), (181, 30279), (212, 30342),
(244, 30402), (293, 30504), (314, 30567), (362, 30738), (445, 30966),

Gene: SamuelLPlaqson_28 Start: 23284, Stop: 24297, Start Num: 73
Candidate Starts for SamuelLPlaqson_28:
(62, 23239), (Start: 73 @23284 has 102 MA's), (Start: 117 @23395 has 3 MA's), (165, 23509), (221,
23626), (246, 23668), (254, 23680), (314, 23734), (336, 23812), (361, 23908), (366, 23920), (380,
23959), (387, 23995), (443, 24142), (468, 24238),

Gene: Sbash_21 Start: 21030, Stop: 22079, Start Num: 76
Candidate Starts for Sbash_21:

(Start: 76 @21030 has 170 MA's), (142, 21192), (159, 21243), (187, 21306), (251, 21411), (336, 21600), (342, 21636), (366, 21708), (410, 21843), (431, 21897), (460, 21987),

Gene: Scarlett_27 Start: 22586, Stop: 23545, Start Num: 75
Candidate Starts for Scarlett_27:
(Start: 75 @22586 has 4 MA's), (143, 22748), (145, 22754), (153, 22775), (155, 22781), (169, 22823), (188, 22868), (212, 22910), (221, 22925), (314, 23033), (339, 23117), (431, 23393),

Gene: Scitech_21 Start: 20194, Stop: 21228, Start Num: 76
Candidate Starts for Scitech_21:
(Start: 76 @20194 has 170 MA's), (140, 20350), (142, 20356), (178, 20464), (181, 20467), (191, 20482), (243, 20569), (267, 20614), (314, 20695), (331, 20752), (337, 20776), (366, 20881), (385, 20953), (403, 20998),

Gene: Scoot17C_33 Start: 32368, Stop: 33528, Start Num: 48
Candidate Starts for Scoot17C_33:
(Start: 48 @32368 has 84 MA's), (81, 32479), (101, 32524), (138, 32623), (159, 32683), (170, 32719), (179, 32743), (204, 32788), (209, 32794), (237, 32845), (258, 32884), (259, 32887), (265, 32899), (275, 32914), (305, 32938), (314, 32971), (336, 33052), (344, 33097), (361, 33145), (374, 33181), (378, 33190), (380, 33196), (459, 33421),

Gene: Scuba_53 Start: 35472, Stop: 36554, Start Num: 80
Candidate Starts for Scuba_53:
(Start: 80 @35472 has 33 MA's), (122, 35589), (214, 35817), (258, 35901), (261, 35907), (303, 35961), (465, 36486),

Gene: Sejanus_28 Start: 29684, Stop: 30844, Start Num: 48
Candidate Starts for Sejanus_28:
(Start: 48 @29684 has 84 MA's), (54, 29720), (64, 29753), (81, 29798), (101, 29843), (102, 29846), (170, 30038), (179, 30062), (184, 30068), (209, 30113), (210, 30116), (237, 30164), (271, 30227), (273, 30230), (306, 30263), (329, 30338), (336, 30368), (371, 30491), (375, 30500), (378, 30506), (475, 30827),

Gene: Serendipity_33 Start: 32393, Stop: 33553, Start Num: 48
Candidate Starts for Serendipity_33:
(Start: 48 @32393 has 84 MA's), (81, 32504), (101, 32549), (138, 32648), (159, 32708), (170, 32744), (179, 32768), (204, 32813), (209, 32819), (237, 32870), (258, 32909), (259, 32912), (265, 32924), (275, 32939), (305, 32963), (314, 32996), (336, 33077), (344, 33122), (361, 33170), (374, 33206), (378, 33215), (380, 33221), (459, 33446),

Gene: SgtBeansprout_24 Start: 22900, Stop: 23907, Start Num: 76
Candidate Starts for SgtBeansprout_24:
(61, 22849), (65, 22861), (Start: 76 @22900 has 170 MA's), (103, 22960), (133, 23032), (153, 23086), (160, 23107), (221, 23236), (247, 23281), (251, 23284), (313, 23341), (314, 23344), (328, 23389), (337, 23425), (361, 23521), (366, 23533), (397, 23653), (452, 23785),

Gene: Shadow1_27 Start: 22543, Stop: 23604, Start Num: 76
Candidate Starts for Shadow1_27:
(47, 22453), (Start: 76 @22543 has 170 MA's), (110, 22624), (Start: 115 @22642 has 1 MA's), (160, 22750), (165, 22762), (170, 22783), (221, 22879), (300, 22993), (313, 23044), (341, 23161), (349, 23176), (366, 23233), (380, 23272), (443, 23461),

Gene: Shaobing_28 Start: 22728, Stop: 23693, Start Num: 73

Candidate Starts for Shaobing_28:
(Start: 73 @22728 has 102 MA's), (77, 22734), (140, 22887), (146, 22905), (153, 22923), (165, 22956), (177, 22998), (212, 23058), (221, 23073), (336, 23259), (337, 23262), (356, 23334), (380, 23403), (392, 23451), (399, 23466), (414, 23499), (434, 23538), (467, 23637),

Gene: ShedlockHolmes_28 Start: 23930, Stop: 24949, Start Num: 76
Candidate Starts for ShedlockHolmes_28:
(20, 23549), (21, 23561), (24, 23597), (26, 23621), (33, 23741), (47, 23840), (59, 23897), (Start: 76 @23930 has 170 MA's), (88, 23963), (133, 24062), (Start: 135 @24068 has 4 MA's), (140, 24080), (160, 24137), (162, 24143), (185, 24203), (221, 24266), (227, 24275), (247, 24311), (261, 24332), (267, 24344), (317, 24383), (336, 24452), (362, 24551), (380, 24599), (387, 24635), (408, 24698), (421, 24740), (443, 24788), (457, 24830), (473, 24926),

Gene: Shelley_30 Start: 37583, Stop: 38485, Start Num: 137
Candidate Starts for Shelley_30:
(Start: 137 @37583 has 35 MA's), (193, 37721), (223, 37790), (252, 37838), (301, 37901), (314, 37937), (358, 38105), (454, 38357), (473, 38462),

Gene: ShiaSurprise_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for ShiaSurprise_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (Start: 117 @23467 has 3 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (366, 23992), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Shweta_21 Start: 20201, Stop: 21238, Start Num: 76
Candidate Starts for Shweta_21:
(Start: 76 @20201 has 170 MA's), (140, 20357), (142, 20363), (156, 20405), (178, 20471), (181, 20474), (218, 20534), (243, 20579), (267, 20624), (314, 20705), (331, 20762), (337, 20786), (366, 20891), (385, 20963), (403, 21008),

Gene: SirPhilip_27 Start: 22229, Stop: 23257, Start Num: 76
Candidate Starts for SirPhilip_27:
(Start: 76 @22229 has 170 MA's), (146, 22400), (153, 22418), (169, 22466), (197, 22526), (221, 22568), (233, 22586), (246, 22610), (311, 22661), (317, 22685), (333, 22742), (337, 22757), (356, 22829), (380, 22898),

Gene: Skinny_32 Start: 27432, Stop: 28493, Start Num: 76
Candidate Starts for Skinny_32:
(Start: 76 @27432 has 170 MA's), (89, 27468), (106, 27510), (145, 27600), (153, 27621), (161, 27648), (187, 27711), (240, 27801), (248, 27813), (254, 27822), (281, 27867), (317, 27933), (337, 28005), (359, 28095), (366, 28113), (393, 28230), (398, 28242), (437, 28332),

Gene: SkinnyPete_21 Start: 20204, Stop: 21241, Start Num: 76
Candidate Starts for SkinnyPete_21:
(Start: 76 @20204 has 170 MA's), (140, 20360), (142, 20366), (178, 20474), (191, 20492), (243, 20582), (267, 20627), (314, 20708), (337, 20789), (359, 20876), (366, 20894), (385, 20966), (403, 21011), (465, 21176),

Gene: Skog_188 Start: 113083, Stop: 113973, Start Num: 135
Candidate Starts for Skog_188:
(Start: 135 @113083 has 4 MA's), (149, 113122), (174, 113194), (269, 113356), (396, 113722), (443, 113818),

Gene: Skysand_47 Start: 36418, Stop: 37479, Start Num: 80
Candidate Starts for Skysand_47:
(Start: 80 @36418 has 33 MA's), (150, 36604), (232, 36790), (234, 36793), (339, 37003),

Gene: Slarp_29 Start: 24596, Stop: 25600, Start Num: 76
Candidate Starts for Slarp_29:
(Start: 76 @24596 has 170 MA's), (146, 24764), (162, 24809), (165, 24815), (185, 24869), (191, 24878), (237, 24959), (247, 24980), (252, 24986), (254, 24989), (336, 25121), (337, 25124), (371, 25247),

Gene: SlimJimmy_30 Start: 26975, Stop: 28030, Start Num: 76
Candidate Starts for SlimJimmy_30:
(Start: 76 @26975 has 170 MA's), (159, 27188), (171, 27224), (212, 27287), (251, 27359), (267, 27389), (279, 27410), (307, 27446), (317, 27482), (331, 27530), (336, 27551), (339, 27557), (342, 27587), (343, 27590), (358, 27638), (431, 27848), (450, 27902),

Gene: Slimphazie_28 Start: 23323, Stop: 24336, Start Num: 73
Candidate Starts for Slimphazie_28:
(17, 22879), (28, 23026), (62, 23278), (Start: 73 @23323 has 102 MA's), (Start: 117 @23434 has 3 MA's), (165, 23548), (221, 23665), (246, 23707), (254, 23719), (314, 23773), (336, 23851), (361, 23947), (366, 23959), (377, 23989), (380, 23998), (411, 24112), (443, 24181),

Gene: SoSeph_27 Start: 24081, Stop: 25148, Start Num: 76
Candidate Starts for SoSeph_27:
(Start: 76 @24081 has 170 MA's), (120, 24198), (145, 24255), (161, 24303), (165, 24309), (188, 24366), (191, 24369), (198, 24384), (218, 24411), (239, 24450), (242, 24453), (249, 24465), (251, 24468), (252, 24471), (261, 24486), (297, 24531), (299, 24537), (317, 24591), (331, 24639), (340, 24669), (351, 24714), (385, 24843), (397, 24897),

Gene: Solosis_32 Start: 32084, Stop: 33244, Start Num: 48
Candidate Starts for Solosis_32:
(Start: 48 @32084 has 84 MA's), (81, 32195), (101, 32240), (138, 32339), (159, 32399), (170, 32435), (179, 32459), (204, 32504), (209, 32510), (237, 32561), (258, 32600), (259, 32603), (265, 32615), (275, 32630), (305, 32654), (314, 32687), (336, 32768), (344, 32813), (361, 32861), (374, 32897), (378, 32906), (380, 32912), (459, 33137),

Gene: Sonah_22 Start: 21289, Stop: 22326, Start Num: 76
Candidate Starts for Sonah_22:
(68, 21265), (Start: 73 @21286 has 102 MA's), (Start: 76 @21289 has 170 MA's), (85, 21313), (142, 21451), (156, 21493), (181, 21562), (218, 21622), (243, 21667), (267, 21712), (314, 21793), (331, 21850), (337, 21874), (366, 21979), (385, 22051), (403, 22096), (465, 22261),

Gene: Sparky_21 Start: 21885, Stop: 22931, Start Num: 76
Candidate Starts for Sparky_21:
(Start: 76 @21885 has 170 MA's), (159, 22098), (161, 22104), (218, 22209), (243, 22251), (245, 22254), (282, 22323), (336, 22455), (342, 22491), (379, 22599), (431, 22752), (434, 22761), (440, 22773),

Gene: Spock_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Spock_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: Sprinklemunch_22 Start: 21828, Stop: 22874, Start Num: 95
Candidate Starts for Sprinklemunch_22:
(Start: 95 @21828 has 3 MA's), (140, 21933), (173, 22038), (253, 22194), (263, 22212), (266, 22215), (291, 22269), (331, 22398), (378, 22554), (392, 22626), (416, 22674), (420, 22677), (433, 22710),

Gene: StarStruck_46 Start: 35932, Stop: 36987, Start Num: 80
Candidate Starts for StarStruck_46:
(60, 35869), (Start: 80 @35932 has 33 MA's), (160, 36145), (234, 36304), (246, 36328), (366, 36616), (465, 36916), (473, 36961),

Gene: Stargaze_23 Start: 23284, Stop: 24429, Start Num: 48
Candidate Starts for Stargaze_23:
(4, 22495), (8, 22654), (9, 22762), (11, 22864), (41, 23260), (Start: 48 @23284 has 84 MA's), (81, 23395), (86, 23410), (131, 23521), (155, 23584), (159, 23599), (224, 23746), (233, 23761), (261, 23812), (304, 23845), (321, 23908), (335, 23959), (337, 23968), (383, 24136),

Gene: StevieRay_22 Start: 21290, Stop: 22327, Start Num: 76
Candidate Starts for StevieRay_22:
(68, 21266), (Start: 73 @21287 has 102 MA's), (Start: 76 @21290 has 170 MA's), (85, 21314), (142, 21452), (156, 21494), (181, 21563), (218, 21623), (243, 21668), (267, 21713), (314, 21794), (331, 21851), (337, 21875), (366, 21980), (385, 22052), (403, 22097), (465, 22262),

Gene: Sticker17_30 Start: 38098, Stop: 39000, Start Num: 137
Candidate Starts for Sticker17_30:
(Start: 137 @38098 has 35 MA's), (193, 38236), (223, 38305), (252, 38353), (301, 38416), (314, 38452), (358, 38620), (447, 38854), (454, 38872), (473, 38977),

Gene: Stinson_29 Start: 23565, Stop: 24578, Start Num: 73
Candidate Starts for Stinson_29:
(Start: 73 @23565 has 102 MA's), (Start: 117 @23676 has 3 MA's), (165, 23790), (221, 23907), (246, 23949), (314, 24015), (317, 24024), (336, 24093), (361, 24189), (366, 24201), (411, 24354), (443, 24423), (468, 24519),

Gene: Stormer_32 Start: 27117, Stop: 28214, Start Num: 93
Candidate Starts for Stormer_32:
(Start: 93 @27117 has 33 MA's), (143, 27231), (183, 27324), (201, 27357), (203, 27360), (205, 27363), (212, 27381), (213, 27384), (244, 27444), (272, 27495), (278, 27507), (286, 27519), (295, 27561), (325, 27657), (335, 27699), (393, 27933), (413, 27972), (446, 28059), (478, 28206),

Gene: StressBall_22 Start: 21561, Stop: 22601, Start Num: 76
Candidate Starts for StressBall_22:
(Start: 76 @21561 has 170 MA's), (140, 21720), (142, 21726), (156, 21768), (178, 21834), (181, 21837), (218, 21897), (243, 21942), (267, 21987), (314, 22068), (331, 22125), (337, 22149), (366, 22254), (385, 22326), (403, 22371),

Gene: Strobilo_25 Start: 21282, Stop: 22277, Start Num: 76
Candidate Starts for Strobilo_25:
(47, 21198), (Start: 76 @21282 has 170 MA's), (108, 21363), (Start: 115 @21387 has 1 MA's), (143, 21447), (162, 21501), (165, 21507), (212, 21609), (213, 21612), (243, 21660), (246, 21666), (313, 21729), (314, 21732), (327, 21774), (339, 21816), (359, 21900), (380, 21957), (473, 22254),

Gene: Sukkupi_46 Start: 34612, Stop: 35703, Start Num: 80

Candidate Starts for Sukkupi_46:
(Start: 80 @34612 has 33 MA's), (92, 34645), (129, 34741), (199, 34924), (232, 34993), (314, 35131), (318, 35143), (319, 35146),

Gene: Sulley_28 Start: 23289, Stop: 24302, Start Num: 73
Candidate Starts for Sulley_28:
(Start: 73 @23289 has 102 MA's), (Start: 117 @23400 has 3 MA's), (165, 23514), (221, 23631), (254, 23685), (314, 23739), (336, 23817), (361, 23913), (366, 23925), (377, 23955), (380, 23964), (411, 24078), (443, 24147),

Gene: Sunflower1121_27 Start: 22555, Stop: 23616, Start Num: 76
Candidate Starts for Sunflower1121_27:
(47, 22465), (Start: 76 @22555 has 170 MA's), (110, 22636), (Start: 115 @22654 has 1 MA's), (160, 22762), (165, 22774), (170, 22795), (221, 22891), (300, 23005), (313, 23056), (341, 23173), (366, 23245), (380, 23284), (413, 23404), (443, 23473),

Gene: SuperSonics_37 Start: 31769, Stop: 32809, Start Num: 98
Candidate Starts for SuperSonics_37:
(Start: 98 @31769 has 3 MA's), (130, 31847), (158, 31925), (272, 32138), (276, 32144), (303, 32222), (331, 32315), (339, 32342),

Gene: SuperSulley_46 Start: 36118, Stop: 37173, Start Num: 80
Candidate Starts for SuperSulley_46:
(Start: 80 @36118 has 33 MA's), (160, 36331), (246, 36514), (366, 36802), (473, 37147),

Gene: Syra333_28 Start: 22645, Stop: 23640, Start Num: 76
Candidate Starts for Syra333_28:
(47, 22555), (Start: 76 @22645 has 170 MA's), (Start: 115 @22744 has 1 MA's), (Start: 117 @22750 has 3 MA's), (174, 22900), (221, 22981), (336, 23167), (337, 23170), (358, 23254), (361, 23263), (374, 23299), (425, 23449), (471, 23599), (473, 23617),

Gene: TBond007_28 Start: 23723, Stop: 24787, Start Num: 76
Candidate Starts for TBond007_28:
(10, 23171), (14, 23237), (16, 23300), (19, 23333), (22, 23375), (33, 23534), (47, 23633), (59, 23690), (Start: 76 @23723 has 170 MA's), (133, 23855), (Start: 135 @23861 has 4 MA's), (160, 23930), (162, 23936), (185, 23996), (197, 24017), (204, 24032), (252, 24110), (336, 24302), (341, 24338), (357, 24386), (371, 24428), (411, 24554),

Gene: TClif_28 Start: 22714, Stop: 23739, Start Num: 76
Candidate Starts for TClif_28:
(Start: 76 @22714 has 170 MA's), (113, 22813), (Start: 115 @22816 has 1 MA's), (143, 22876), (158, 22921), (170, 22957), (213, 23041), (243, 23089), (316, 23173), (323, 23197), (337, 23248), (357, 23329), (444, 23581), (457, 23620), (473, 23716),

Gene: TM4_25 Start: 21422, Stop: 22426, Start Num: 76
Candidate Starts for TM4_25:
(Start: 76 @21422 has 170 MA's), (Start: 115 @21527 has 1 MA's), (143, 21587), (146, 21596), (162, 21641), (165, 21647), (185, 21701), (215, 21755), (252, 21815), (270, 21848), (314, 21872), (337, 21953), (339, 21956), (359, 22040), (371, 22076), (473, 22403),

Gene: Tachez_28 Start: 23285, Stop: 24298, Start Num: 73
Candidate Starts for Tachez_28:

(17, 22841), (28, 22988), (62, 23240), (Start: 73 @23285 has 102 MA's), (Start: 117 @23396 has 3 MA's), (165, 23510), (221, 23627), (246, 23669), (254, 23681), (314, 23735), (336, 23813), (361, 23909), (366, 23921), (377, 23951), (380, 23960), (411, 24074), (443, 24143),

Gene: TaiwanKao_29 Start: 23407, Stop: 24309, Start Num: 117
Candidate Starts for TaiwanKao_29:
(62, 23251), (Start: 73 @23296 has 102 MA's), (Start: 117 @23407 has 3 MA's), (165, 23521), (221, 23638), (246, 23680), (254, 23692), (314, 23746), (336, 23824), (357, 23908), (361, 23920), (366, 23932), (380, 23971), (401, 24061), (468, 24250),

Gene: Taquito_27 Start: 24633, Stop: 25676, Start Num: 72
Candidate Starts for Taquito_27:
(Start: 72 @24633 has 4 MA's), (Start: 76 @24636 has 170 MA's), (168, 24876), (181, 24912), (187, 24921), (191, 24927), (218, 24972), (243, 25017), (252, 25035), (267, 25062), (314, 25143), (331, 25200), (337, 25224), (366, 25329), (385, 25401), (403, 25446),

Gene: Teal_30 Start: 38566, Stop: 39468, Start Num: 137
Candidate Starts for Teal_30:
(Start: 137 @38566 has 35 MA's), (193, 38704), (223, 38773), (252, 38821), (301, 38884), (314, 38920), (358, 39088), (454, 39340), (473, 39445),

Gene: Techage_22 Start: 21290, Stop: 22327, Start Num: 76
Candidate Starts for Techage_22:
(68, 21266), (Start: 73 @21287 has 102 MA's), (Start: 76 @21290 has 170 MA's), (85, 21314), (142, 21452), (156, 21494), (181, 21563), (218, 21623), (243, 21668), (267, 21713), (314, 21794), (331, 21851), (337, 21875), (366, 21980), (385, 22052), (403, 22097), (465, 22262),

Gene: Teejan_24 Start: 22861, Stop: 23907, Start Num: 65
Candidate Starts for Teejan_24:
(61, 22849), (65, 22861), (Start: 76 @22900 has 170 MA's), (103, 22960), (133, 23032), (153, 23086), (160, 23107), (221, 23236), (247, 23281), (251, 23284), (313, 23341), (314, 23344), (328, 23389), (337, 23425), (361, 23521), (366, 23533), (397, 23653), (452, 23785),

Gene: Thespis_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for Thespis_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: ThreeOh3D2_33 Start: 32374, Stop: 33534, Start Num: 48
Candidate Starts for ThreeOh3D2_33:
(Start: 48 @32374 has 84 MA's), (81, 32485), (101, 32530), (138, 32629), (159, 32689), (170, 32725), (179, 32749), (204, 32794), (209, 32800), (237, 32851), (258, 32890), (259, 32893), (265, 32905), (275, 32920), (305, 32944), (314, 32977), (336, 33058), (344, 33103), (361, 33151), (374, 33187), (378, 33196), (380, 33202), (459, 33427),

Gene: ThulaThula_22 Start: 21454, Stop: 22491, Start Num: 76
Candidate Starts for ThulaThula_22:
(Start: 76 @21454 has 170 MA's), (142, 21616), (159, 21667), (171, 21703), (187, 21730), (218, 21778), (251, 21835), (270, 21871), (336, 22024), (342, 22060), (366, 22132), (410, 22267), (431, 22321), (460, 22399),

Gene: Thyatira_27 Start: 23933, Stop: 25000, Start Num: 76

Candidate Starts for Thyatira_27:
(Start: 76 @23933 has 170 MA's), (120, 24050), (145, 24107), (161, 24155), (165, 24161), (188, 24218), (191, 24221), (198, 24236), (218, 24263), (239, 24302), (242, 24305), (249, 24317), (251, 24320), (252, 24323), (261, 24338), (297, 24383), (299, 24389), (317, 24443), (331, 24491), (340, 24521), (351, 24566), (385, 24695), (397, 24749), (416, 24794),

Gene: Tierra_28 Start: 23391, Stop: 24452, Start Num: 76
Candidate Starts for Tierra_28:
(Start: 76 @23391 has 170 MA's), (109, 23469), (110, 23472), (Start: 115 @23490 has 1 MA's), (136, 23532), (160, 23598), (170, 23631), (221, 23727), (230, 23739), (300, 23841), (313, 23892), (341, 24009), (418, 24252), (426, 24270), (443, 24309),

Gene: Tigress9_29 Start: 22638, Stop: 23633, Start Num: 76
Candidate Starts for Tigress9_29:
(47, 22548), (Start: 76 @22638 has 170 MA's), (Start: 115 @22737 has 1 MA's), (Start: 117 @22743 has 3 MA's), (174, 22893), (221, 22974), (237, 22998), (336, 23160), (337, 23163), (358, 23247), (374, 23292), (467, 23571), (471, 23592), (473, 23610),

Gene: Tillicus_32 Start: 28456, Stop: 29502, Start Num: 93
Candidate Starts for Tillicus_32:
(Start: 93 @28456 has 33 MA's), (Start: 115 @28513 has 1 MA's), (155, 28603), (157, 28612), (159, 28618), (162, 28627), (181, 28681), (291, 28897), (293, 28906), (307, 28945), (311, 28957), (331, 29026), (362, 29140), (371, 29167), (407, 29275),

Gene: Tinciduntsolum_34 Start: 32810, Stop: 33979, Start Num: 46
Candidate Starts for Tinciduntsolum_34:
(29, 32669), (Start: 46 @32810 has 10 MA's), (Start: 48 @32816 has 84 MA's), (56, 32855), (64, 32885), (81, 32930), (101, 32975), (138, 33074), (159, 33134), (170, 33170), (179, 33194), (204, 33239), (209, 33245), (237, 33296), (258, 33335), (259, 33338), (265, 33350), (275, 33365), (305, 33389), (314, 33422), (336, 33503), (361, 33596), (374, 33632), (378, 33641), (380, 33647), (391, 33707), (459, 33872),

Gene: TingHuaYa_28 Start: 22494, Stop: 23501, Start Num: 76
Candidate Starts for TingHuaYa_28:
(Start: 76 @22494 has 170 MA's), (114, 22593), (165, 22713), (170, 22734), (221, 22830), (314, 22938), (336, 23016), (361, 23112), (366, 23124), (380, 23163), (440, 23334), (443, 23346),

Gene: TiniBug_28 Start: 23281, Stop: 24294, Start Num: 73
Candidate Starts for TiniBug_28:
(62, 23236), (Start: 73 @23281 has 102 MA's), (Start: 117 @23392 has 3 MA's), (165, 23506), (221, 23623), (254, 23677), (314, 23731), (336, 23809), (361, 23905), (366, 23917), (380, 23956), (387, 23992), (409, 24061), (443, 24139), (468, 24235),

Gene: Tiri_28 Start: 23328, Stop: 24341, Start Num: 73
Candidate Starts for Tiri_28:
(17, 22884), (62, 23283), (Start: 73 @23328 has 102 MA's), (Start: 117 @23439 has 3 MA's), (165, 23553), (221, 23670), (246, 23712), (254, 23724), (314, 23778), (336, 23856), (357, 23940), (361, 23952), (366, 23964), (380, 24003), (411, 24117), (443, 24186),

Gene: Topper_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Topper_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145),

(443, 24214),

Gene: Torres_24 Start: 22900, Stop: 23907, Start Num: 76
Candidate Starts for Torres_24:
(61, 22849), (65, 22861), (Start: 76 @22900 has 170 MA's), (103, 22960), (133, 23032), (153, 23086), (160, 23107), (221, 23236), (247, 23281), (251, 23284), (313, 23341), (314, 23344), (328, 23389), (337, 23425), (361, 23521), (366, 23533), (397, 23653), (452, 23785),

Gene: Tortellini_22 Start: 21866, Stop: 22936, Start Num: 76
Candidate Starts for Tortellini_22:
(Start: 76 @21866 has 170 MA's), (168, 22106), (181, 22142), (187, 22151), (191, 22157), (218, 22202), (243, 22247), (252, 22265), (267, 22292), (314, 22373), (337, 22454), (379, 22592), (380, 22595),

Gene: Towmatter_36 Start: 34440, Stop: 35507, Start Num: 78
Candidate Starts for Towmatter_36:
(Start: 78 @34440 has 2 MA's), (219, 34785), (243, 34830), (260, 34860), (373, 35151), (376, 35157), (381, 35175), (394, 35241), (396, 35244), (409, 35262), (424, 35310), (477, 35496),

Gene: TpudiCK_32 Start: 26991, Stop: 28046, Start Num: 76
Candidate Starts for TpudiCK_32:
(Start: 76 @26991 has 170 MA's), (159, 27204), (171, 27240), (212, 27303), (251, 27375), (267, 27405), (279, 27426), (307, 27462), (317, 27498), (331, 27546), (336, 27567), (339, 27573), (342, 27603), (343, 27606), (358, 27654), (423, 27843), (431, 27864), (450, 27918),

Gene: Tracker_44 Start: 34752, Stop: 35810, Start Num: 80
Candidate Starts for Tracker_44:
(1, 33312), (2, 33609), (5, 33840), (13, 34209), (40, 34587), (42, 34602), (Start: 46 @34620 has 10 MA's), (Start: 80 @34752 has 33 MA's), (217, 35097), (245, 35148), (277, 35196),

Gene: Tres_33 Start: 32691, Stop: 33854, Start Num: 48
Candidate Starts for Tres_33:
(29, 32544), (Start: 46 @32685 has 10 MA's), (Start: 48 @32691 has 84 MA's), (56, 32730), (64, 32760), (81, 32805), (101, 32850), (138, 32949), (159, 33009), (170, 33045), (179, 33069), (204, 33114), (209, 33120), (237, 33171), (258, 33210), (259, 33213), (265, 33225), (275, 33240), (305, 33264), (314, 33297), (336, 33378), (361, 33471), (374, 33507), (378, 33516), (380, 33522), (459, 33747),

Gene: TreyKay_28 Start: 23290, Stop: 24303, Start Num: 73
Candidate Starts for TreyKay_28:
(62, 23245), (Start: 73 @23290 has 102 MA's), (Start: 117 @23401 has 3 MA's), (165, 23515), (221, 23632), (246, 23674), (254, 23686), (314, 23740), (336, 23818), (357, 23902), (361, 23914), (366, 23926), (380, 23965), (468, 24244),

Gene: TribleTrouble_27 Start: 23874, Stop: 24935, Start Num: 76
Candidate Starts for TribleTrouble_27:
(47, 23769), (Start: 76 @23874 has 170 MA's), (88, 23907), (106, 23946), (128, 23997), (133, 24006), (143, 24033), (160, 24081), (185, 24147), (204, 24183), (213, 24198), (225, 24216), (227, 24219), (237, 24234), (298, 24321), (341, 24492), (443, 24792),

Gene: Trice_24 Start: 22861, Stop: 23907, Start Num: 65
Candidate Starts for Trice_24:

(61, 22849), (65, 22861), (Start: 76 @22900 has 170 MA's), (103, 22960), (133, 23032), (153, 23086), (160, 23107), (221, 23236), (247, 23281), (251, 23284), (313, 23341), (314, 23344), (328, 23389), (337, 23425), (361, 23521), (366, 23533), (397, 23653), (452, 23785),

Gene: TruffulaTree_28 Start: 23319, Stop: 24332, Start Num: 73
Candidate Starts for TruffulaTree_28:
(17, 22875), (62, 23274), (Start: 73 @23319 has 102 MA's), (165, 23544), (221, 23661), (246, 23703), (254, 23715), (314, 23769), (336, 23847), (361, 23943), (366, 23955), (377, 23985), (380, 23994), (411, 24108), (443, 24177),

Gene: Trypo_33 Start: 32370, Stop: 33530, Start Num: 48
Candidate Starts for Trypo_33:
(Start: 48 @32370 has 84 MA's), (81, 32481), (101, 32526), (138, 32625), (159, 32685), (170, 32721), (179, 32745), (204, 32790), (209, 32796), (237, 32847), (258, 32886), (259, 32889), (265, 32901), (275, 32916), (305, 32940), (314, 32973), (336, 33054), (344, 33099), (361, 33147), (374, 33183), (378, 33192), (380, 33198), (459, 33423),

Gene: Twitch_28 Start: 23356, Stop: 24369, Start Num: 73
Candidate Starts for Twitch_28:
(17, 22912), (62, 23311), (Start: 73 @23356 has 102 MA's), (165, 23581), (221, 23698), (246, 23740), (254, 23752), (314, 23806), (336, 23884), (361, 23980), (377, 24022), (380, 24031), (411, 24145), (443, 24214),

Gene: TyDawg_31 Start: 26992, Stop: 28047, Start Num: 76
Candidate Starts for TyDawg_31:
(Start: 76 @26992 has 170 MA's), (159, 27205), (171, 27241), (212, 27304), (251, 27376), (267, 27406), (279, 27427), (307, 27463), (317, 27499), (331, 27547), (336, 27568), (339, 27574), (342, 27604), (343, 27607), (358, 27655), (423, 27844), (431, 27865), (450, 27919),

Gene: Typha_28 Start: 26025, Stop: 27062, Start Num: 76
Candidate Starts for Typha_28:
(Start: 76 @26025 has 170 MA's), (123, 26148), (147, 26202), (159, 26238), (187, 26301), (218, 26349), (249, 26403), (251, 26406), (336, 26592), (342, 26628), (356, 26670), (361, 26688), (380, 26739),

Gene: TyrionL_32 Start: 31933, Stop: 33093, Start Num: 48
Candidate Starts for TyrionL_32:
(Start: 48 @31933 has 84 MA's), (81, 32044), (101, 32089), (138, 32188), (159, 32248), (170, 32284), (179, 32308), (204, 32353), (209, 32359), (237, 32410), (258, 32449), (259, 32452), (265, 32464), (275, 32479), (305, 32503), (314, 32536), (336, 32617), (344, 32662), (361, 32710), (374, 32746), (378, 32755), (380, 32761), (459, 32986),

Gene: Unicorn_28 Start: 22720, Stop: 23781, Start Num: 76
Candidate Starts for Unicorn_28:
(47, 22630), (59, 22687), (Start: 76 @22720 has 170 MA's), (Start: 115 @22819 has 1 MA's), (160, 22927), (165, 22939), (170, 22960), (221, 23056), (300, 23170), (313, 23221), (341, 23338), (418, 23581), (426, 23599), (443, 23638),

Gene: Urkel_28 Start: 23284, Stop: 24297, Start Num: 73
Candidate Starts for Urkel_28:
(62, 23239), (Start: 73 @23284 has 102 MA's), (Start: 117 @23395 has 3 MA's), (165, 23509), (221, 23626), (246, 23668), (254, 23680), (314, 23734), (336, 23812), (361, 23908), (366, 23920), (380, 23959), (387, 23995), (443, 24142), (468, 24238),

Gene: Validus_28 Start: 22666, Stop: 23631, Start Num: 73
Candidate Starts for Validus_28:
(64, 22630), (Start: 73 @22666 has 102 MA's), (77, 22672), (Start: 117 @22780 has 3 MA's), (133, 22807), (153, 22861), (177, 22936), (233, 23029), (264, 23083), (336, 23197), (337, 23200), (359, 23284), (380, 23341), (394, 23395), (414, 23437), (434, 23476),

Gene: Veliki_28 Start: 23359, Stop: 24372, Start Num: 73
Candidate Starts for Veliki_28:
(17, 22915), (28, 23062), (62, 23314), (Start: 73 @23359 has 102 MA's), (Start: 117 @23470 has 3 MA's), (165, 23584), (221, 23701), (246, 23743), (254, 23755), (314, 23809), (336, 23887), (361, 23983), (366, 23995), (377, 24025), (380, 24034), (411, 24148), (443, 24217),

Gene: Venti_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for Venti_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: Vidya_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for Vidya_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: Vista_33 Start: 32374, Stop: 33534, Start Num: 48
Candidate Starts for Vista_33:
(Start: 48 @32374 has 84 MA's), (81, 32485), (101, 32530), (138, 32629), (159, 32689), (170, 32725), (179, 32749), (204, 32794), (209, 32800), (237, 32851), (258, 32890), (259, 32893), (265, 32905), (275, 32920), (305, 32944), (314, 32977), (336, 33058), (344, 33103), (361, 33151), (374, 33187), (378, 33196), (380, 33202), (459, 33427),

Gene: ViviJ_26 Start: 23840, Stop: 24904, Start Num: 76
Candidate Starts for ViviJ_26:
(Start: 76 @23840 has 170 MA's), (110, 23930), (120, 23957), (147, 24020), (165, 24068), (177, 24107), (188, 24125), (218, 24170), (239, 24209), (267, 24257), (277, 24275), (317, 24350), (337, 24416), (359, 24506), (360, 24509), (361, 24512), (372, 24545), (394, 24644), (395, 24647), (432, 24731), (437, 24743), (470, 24860),

Gene: Vordorf_31 Start: 26927, Stop: 27976, Start Num: 96
Candidate Starts for Vordorf_31:
(Start: 96 @26927 has 5 MA's), (160, 27092), (173, 27137), (212, 27215), (276, 27329), (297, 27392), (314, 27443), (323, 27473), (331, 27500), (416, 27776),

Gene: WST1_22 Start: 19043, Stop: 20098, Start Num: 76
Candidate Starts for WST1_22:
(Start: 76 @19043 has 170 MA's), (120, 19160), (191, 19334), (261, 19451), (264, 19457), (337, 19622), (361, 19715), (379, 19763), (386, 19799), (421, 19892),

Gene: Wallhey_32 Start: 31937, Stop: 33097, Start Num: 48
Candidate Starts for Wallhey_32:
(Start: 48 @31937 has 84 MA's), (81, 32048), (101, 32093), (138, 32192), (159, 32252), (170, 32288), (179, 32312), (204, 32357), (209, 32363), (237, 32414), (258, 32453), (259, 32456), (265, 32468),

(275, 32483), (305, 32507), (314, 32540), (336, 32621), (344, 32666), (361, 32714), (374, 32750), (378, 32759), (380, 32765), (459, 32990),

Gene: Waterdiva_33 Start: 32366, Stop: 33526, Start Num: 48
Candidate Starts for Waterdiva_33:
(Start: 48 @32366 has 84 MA's), (81, 32477), (101, 32522), (138, 32621), (159, 32681), (170, 32717), (179, 32741), (204, 32786), (209, 32792), (237, 32843), (258, 32882), (259, 32885), (265, 32897), (275, 32912), (305, 32936), (314, 32969), (336, 33050), (344, 33095), (361, 33143), (374, 33179), (378, 33188), (380, 33194), (459, 33419),

Gene: Waterfoul_27 Start: 23954, Stop: 25021, Start Num: 76
Candidate Starts for Waterfoul_27:
(Start: 76 @23954 has 170 MA's), (120, 24071), (161, 24176), (165, 24182), (191, 24242), (198, 24257), (218, 24284), (239, 24323), (242, 24326), (249, 24338), (251, 24341), (252, 24344), (261, 24359), (297, 24404), (299, 24410), (317, 24464), (331, 24512), (340, 24542), (351, 24587), (385, 24716), (397, 24770),

Gene: West99_33 Start: 32811, Stop: 33974, Start Num: 48
Candidate Starts for West99_33:
(29, 32664), (Start: 46 @32805 has 10 MA's), (Start: 48 @32811 has 84 MA's), (56, 32850), (64, 32880), (81, 32925), (101, 32970), (138, 33069), (159, 33129), (170, 33165), (179, 33189), (204, 33234), (209, 33240), (237, 33291), (258, 33330), (259, 33333), (265, 33345), (275, 33360), (305, 33384), (314, 33417), (336, 33498), (344, 33543), (361, 33591), (374, 33627), (378, 33636), (380, 33642), (459, 33867),

Gene: WheatThin_27 Start: 23315, Stop: 24382, Start Num: 100
Candidate Starts for WheatThin_27:
(Start: 100 @23315 has 14 MA's), (180, 23525), (276, 23693), (323, 23834), (328, 23849), (331, 23861), (337, 23885), (357, 23969), (406, 24116),

Gene: Wheezy_44 Start: 34957, Stop: 36015, Start Num: 80
Candidate Starts for Wheezy_44:
(1, 33517), (2, 33814), (5, 34045), (13, 34414), (40, 34792), (42, 34807), (Start: 46 @34825 has 10 MA's), (Start: 80 @34957 has 33 MA's), (217, 35302), (245, 35353), (277, 35401),

Gene: WhoseManz_46 Start: 32658, Stop: 33761, Start Num: 80
Candidate Starts for WhoseManz_46:
(Start: 80 @32658 has 33 MA's), (92, 32691), (129, 32787), (199, 32970), (314, 33177), (317, 33186), (336, 33255), (337, 33258), (357, 33342), (376, 33393), (409, 33495), (441, 33579), (443, 33588), (444, 33591),

Gene: Willsammy_22 Start: 21571, Stop: 22605, Start Num: 76
Candidate Starts for Willsammy_22:
(Start: 76 @21571 has 170 MA's), (140, 21727), (142, 21733), (178, 21841), (181, 21844), (191, 21859), (243, 21946), (267, 21991), (314, 22072), (331, 22129), (337, 22153), (366, 22258), (385, 22330), (403, 22375),

Gene: Wintermute_29 Start: 24585, Stop: 25589, Start Num: 76
Candidate Starts for Wintermute_29:
(Start: 76 @24585 has 170 MA's), (Start: 104 @24654 has 1 MA's), (146, 24753), (162, 24798), (185, 24858), (191, 24867), (212, 24903), (237, 24948), (247, 24969), (252, 24975), (254, 24978), (336, 25110), (337, 25113), (371, 25236), (380, 25257), (465, 25524),

Gene: Woes_30 Start: 38617, Stop: 39519, Start Num: 137
Candidate Starts for Woes_30:
(Start: 137 @38617 has 35 MA's), (193, 38755), (223, 38824), (252, 38872), (301, 38935), (314, 38971), (454, 39391), (473, 39496),

Gene: Wojtek_32 Start: 28749, Stop: 29798, Start Num: 93
Candidate Starts for Wojtek_32:
(Start: 93 @28749 has 33 MA's), (143, 28863), (157, 28905), (173, 28959), (181, 28974), (212, 29037), (314, 29262), (362, 29433), (445, 29661), (456, 29706),

Gene: Xavia_22 Start: 21888, Stop: 22955, Start Num: 76
Candidate Starts for Xavia_22:
(Start: 76 @21888 has 170 MA's), (142, 22050), (156, 22092), (181, 22161), (218, 22221), (243, 22266), (252, 22284), (267, 22311), (314, 22392), (331, 22449), (337, 22473), (384, 22644),

Gene: Xeno_21 Start: 20200, Stop: 21240, Start Num: 76
Candidate Starts for Xeno_21:
(Start: 76 @20200 has 170 MA's), (142, 20365), (156, 20407), (181, 20476), (218, 20536), (243, 20581), (267, 20626), (314, 20707), (331, 20764), (337, 20788), (366, 20893), (385, 20965), (403, 21010),

Gene: Ximenita_29 Start: 22823, Stop: 23818, Start Num: 76
Candidate Starts for Ximenita_29:
(47, 22733), (Start: 76 @22823 has 170 MA's), (Start: 115 @22922 has 1 MA's), (Start: 117 @22928 has 3 MA's), (174, 23078), (221, 23159), (336, 23345), (337, 23348), (358, 23432), (425, 23627), (467, 23756), (471, 23777), (473, 23795),

Gene: Y10_29 Start: 24585, Stop: 25589, Start Num: 76
Candidate Starts for Y10_29:
(Start: 76 @24585 has 170 MA's), (Start: 104 @24654 has 1 MA's), (146, 24753), (162, 24798), (165, 24804), (185, 24858), (191, 24867), (212, 24903), (237, 24948), (247, 24969), (252, 24975), (254, 24978), (336, 25110), (337, 25113), (371, 25236), (380, 25257), (465, 25524),

Gene: Y2_29 Start: 24585, Stop: 25589, Start Num: 76
Candidate Starts for Y2_29:
(Start: 76 @24585 has 170 MA's), (Start: 104 @24654 has 1 MA's), (146, 24753), (162, 24798), (165, 24804), (185, 24858), (191, 24867), (212, 24903), (237, 24948), (247, 24969), (252, 24975), (254, 24978), (336, 25110), (337, 25113), (371, 25236), (380, 25257), (465, 25524),

Gene: YangYin_23 Start: 23308, Stop: 24453, Start Num: 48
Candidate Starts for YangYin_23:
(3, 22318), (4, 22519), (8, 22678), (41, 23284), (Start: 48 @23308 has 84 MA's), (81, 23419), (86, 23434), (131, 23545), (155, 23608), (159, 23623), (224, 23770), (233, 23785), (261, 23836), (321, 23932), (322, 23938), (335, 23983), (337, 23992), (374, 24121), (383, 24160),

Gene: YasnayaPolyana_29 Start: 24655, Stop: 25590, Start Num: 104
Candidate Starts for YasnayaPolyana_29:
(Start: 76 @24586 has 170 MA's), (Start: 104 @24655 has 1 MA's), (146, 24754), (162, 24799), (185, 24859), (191, 24868), (212, 24904), (237, 24949), (247, 24970), (252, 24976), (254, 24979), (336, 25111), (337, 25114), (371, 25237), (380, 25258), (465, 25525),

Gene: Yikes_34 Start: 30133, Stop: 31182, Start Num: 93
Candidate Starts for Yikes_34:

(Start: 93 @30133 has 33 MA's), (143, 30247), (157, 30289), (173, 30343), (181, 30358), (212, 30421), (362, 30817), (407, 30952), (445, 31045),

Gene: Yndexa_46 Start: 34612, Stop: 35703, Start Num: 80
Candidate Starts for Yndexa_46:
(Start: 80 @34612 has 33 MA's), (92, 34645), (129, 34741), (199, 34924), (232, 34993), (314, 35131), (318, 35143), (319, 35146),

Gene: YoureAdopted_27 Start: 23292, Stop: 24305, Start Num: 73
Candidate Starts for YoureAdopted_27:
(17, 22848), (28, 22995), (62, 23247), (Start: 73 @23292 has 102 MA's), (Start: 117 @23403 has 3 MA's), (165, 23517), (221, 23634), (246, 23676), (254, 23688), (314, 23742), (336, 23820), (361, 23916), (366, 23928), (377, 23958), (380, 23967), (386, 24000), (411, 24081), (443, 24150),

Gene: Yuna_29 Start: 23206, Stop: 24168, Start Num: 73
Candidate Starts for Yuna_29:
(Start: 73 @23206 has 102 MA's), (179, 23476), (186, 23485), (202, 23518), (210, 23530), (215, 23539), (233, 23566), (323, 23689), (337, 23740), (356, 23809), (362, 23830), (404, 23950),

Gene: Yunkel11_28 Start: 22542, Stop: 23603, Start Num: 73
Candidate Starts for Yunkel11_28:
(Start: 73 @22542 has 102 MA's), (Start: 117 @22656 has 3 MA's), (165, 22770), (170, 22791), (215, 22878), (230, 22899), (233, 22905), (320, 23013), (336, 23073), (363, 23193), (364, 23199), (365, 23205), (386, 23295), (430, 23421), (436, 23436),

Gene: Zabiza_28 Start: 23323, Stop: 24336, Start Num: 73
Candidate Starts for Zabiza_28:
(17, 22879), (28, 23026), (62, 23278), (Start: 73 @23323 has 102 MA's), (Start: 117 @23434 has 3 MA's), (165, 23548), (221, 23665), (246, 23707), (254, 23719), (314, 23773), (336, 23851), (361, 23947), (366, 23959), (377, 23989), (380, 23998), (411, 24112), (443, 24181),

Gene: Zany_32 Start: 29660, Stop: 30706, Start Num: 93
Candidate Starts for Zany_32:
(Start: 93 @29660 has 33 MA's), (143, 29774), (151, 29795), (173, 29870), (181, 29885), (212, 29948), (244, 30008), (293, 30110), (362, 30344),

Gene: Zavala_28 Start: 23298, Stop: 24311, Start Num: 73
Candidate Starts for Zavala_28:
(17, 22854), (62, 23253), (Start: 73 @23298 has 102 MA's), (165, 23523), (221, 23640), (246, 23682), (254, 23694), (314, 23748), (336, 23826), (361, 23922), (366, 23934), (377, 23964), (380, 23973), (411, 24087), (443, 24156),

Gene: Zilizebeth_22 Start: 21299, Stop: 22336, Start Num: 76
Candidate Starts for Zilizebeth_22:
(68, 21275), (Start: 73 @21296 has 102 MA's), (Start: 76 @21299 has 170 MA's), (85, 21323), (142, 21461), (156, 21503), (181, 21572), (218, 21632), (243, 21677), (267, 21722), (314, 21803), (331, 21860), (337, 21884), (366, 21989), (385, 22061), (403, 22106), (465, 22271),

Gene: Zodiariah_22 Start: 21904, Stop: 22950, Start Num: 95
Candidate Starts for Zodiariah_22:
(Start: 95 @21904 has 3 MA's), (140, 22009), (173, 22114), (263, 22288), (266, 22291), (331, 22474), (378, 22630), (392, 22702), (416, 22750), (420, 22753), (433, 22786),

Gene: ZoeJ_25 Start: 21223, Stop: 22245, Start Num: 76
Candidate Starts for ZoeJ_25:
(33, 21040), (47, 21139), (Start: 76 @21223 has 170 MA's), (Start: 115 @21325 has 1 MA's), (141, 21379), (143, 21385), (162, 21439), (165, 21445), (166, 21448), (199, 21526), (212, 21547), (213, 21550), (246, 21604), (339, 21754), (472, 22213), (473, 22222),

Gene: Zonia_33 Start: 32387, Stop: 33547, Start Num: 48
Candidate Starts for Zonia_33:
(Start: 48 @32387 has 84 MA's), (81, 32498), (101, 32543), (138, 32642), (159, 32702), (170, 32738), (179, 32762), (204, 32807), (209, 32813), (237, 32864), (258, 32903), (259, 32906), (265, 32918), (275, 32933), (305, 32957), (314, 32990), (336, 33071), (344, 33116), (361, 33164), (374, 33200), (378, 33209), (380, 33215), (459, 33440),